US/Canada Customer Ordering and Tracking—www.geelitenet.com

For detailed ballast and lamp specifications—www.gelighting.com

For order, technical or warranty assistance, call: 1-888-GEBALLAST (432-2552)

OEM Customer Service: (T) 1-800-833-4933, (F) 1-800-327-0588

GE Lighting Headquarters, Nela Park, 1975 Noble Rd., Cleveland, OH 44112, (T) 216-266-2121

Transforming
the ***POWER***
of light™

Pub. No. 73966

GE Lamp Products Catalog 2008-2009

lamps

2008-2009 product catalog

GE Edison Award

Celebrating excellence in lighting design for more than 25 years

GE sponsors the annual GE Edison Award competition to recognize excellence and quality in professional lighting designs that use GE light sources (lamps and/or LEDs).

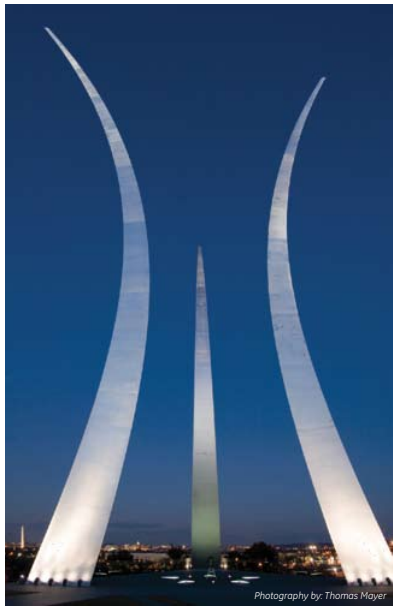
Entries are judged on the basis of functional excellence; architectural compatibility; effective use of state-of-the-art lighting products and techniques; appropriate color, form, and texture revelation; energy effectiveness and cost effectiveness.

Projects must be completed within the prior calendar year and must employ significant use of GE light sources.

Visit www.GEEdisonAward.com

2005 GE Edison Award Winner
The Guardian Building Renovation—Detroit, Michigan, USA
Lighting design by:
Dennis Vogel, Keith Irtenkauf, Sonia Noble —*Illuminating Concepts*

2006 GE Edison Award Winner
Gardiner Museum of Ceramic Art—Toronto, Ontario, Canada
Lighting design by: Suzanne Powadiuk—*Suzanne Powadiuk Design, Inc.*



2007 GE Edison Award Winner
United States Air Force Museum—Arlington, Virginia, USA
Lighting design by:
Enrique Peiniger and Jean Sundin—*Office for Visual Interaction—OVI*

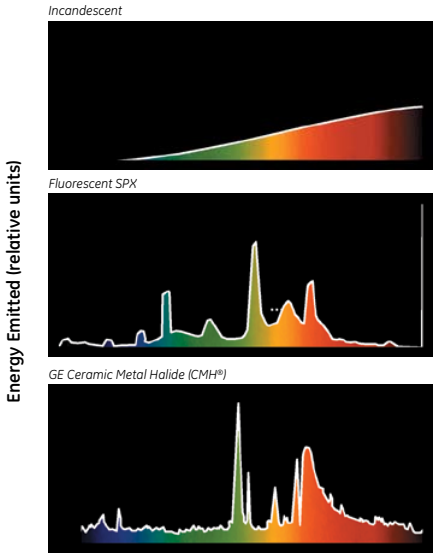
DESCRIBING LIGHT-SOURCE COLOR

The pictures are intended, within the limits of modern high-speed printing, to give a good indication of the differences between SP and SPX colors, at various color temperatures.

Note: Color Rendering (R_a) Index
Typical values in ( ) for 4' linear fluorescent lamps.

STANDARD COLOR AND HIGH EFFICIENCY	WARM WHITE (52)			COOL WHITE (60)	LITE WHITE (49)	
GOOD COLOR AND HIGH EFFICIENCY		SP30 (78)	SP35 (78)	SP41 (78)	SP50 (78)	SP65 (78)
VERY GOOD COLOR AND HIGH EFFICIENCY	SPX27 (82)	SPX30 (86)	SPX35 (86)	SPX41 (86)	SPX50 (86)	SPX65 (85)
		3000K	3500K	4000K	5000K	6500K
		"WARM"			"COOL"	

TYPICAL SPECTRAL OUTPUT



SPECTRAL OUTPUT OF LAMPS

While CCT and CRI are useful measures to indicate the color of a light source, the "true and complete" information about the source is contained in the spectral output curve, samples of which are shown on the left. This curve tells us how much energy the lamp is emitting in each region of the spectrum. The incandescent lamp spectrum, for example, shows very little blue; consequently we might expect navy blue materials to appear almost black under this spectrum.

WHAT IS THE "RIGHT COLOR" FOR THIS APPLICATION?

People have preferences and the "right" color temperature is usually a subjective choice. An environment with "warm" colors—reds, yellows and browns—will be enhanced under warmer (lower color temperature) light sources while "cool" colors—blues, greens and grays—will be enhanced under cooler (higher color temperature) sources. However, this is far from a "hard and fast" rule. Another notion to remember is that indoor spaces lit to low light levels typically look better under warm lamps while high light levels are tolerated better with cool lighting. In spaces where daylighting is utilized, lamps with cooler color temperatures will integrate well with the higher color temperature of daylight.

Once you have picked the lamp type and the "right" color temperature, whatever that is, it is best to go with the highest CRI lamp available in that family. Since electricity constitutes the major portion of expense of a lighting system over its life, choosing the highest quality light source makes the best use of the electricity consumed.

This latest edition of the GE product catalog has been updated to help you more easily select the GE lighting products that best meet your needs.

Technical data in this catalog (life, lumens, wattage, etc.) are nominal values, subject to manufacturer's tolerances. All technical data in this catalog is based on laboratory tests conducted under controlled conditions. Performance of individual lamps may vary. Because of frequent design improvements, the values listed may not be current ratings. Technical bulletins may be issued from time to time if changes in ratings occur prior to the next catalog printing.

Technical Support
1-800-GE LAMPS

For the most up-to-date, comprehensive product information, visit the GE Lighting website at
www.gelighting.com.

imagination at work

GE Consumer & Industrial
Lighting

ecomagination[SM]

The future can seem pretty intimidating: Our known reserves of oil and natural gas are expected to be depleted by 2045, the climate is changing, and more than a billion people lack clean water. At GE, we believe some of the world's most pressing challenges present an opportunity to do what we do best: **imagine and build innovative solutions that benefit our customers and society at large.**

As a global leader in energy, technology, manufacturing, and infrastructure, GE is uniquely suited to help solve environmental challenges, for today and generations to come. Our customers want a more prosperous, cleaner future. By harnessing our most abundant renewable resource – the imagination of our people – we can create that future with them. We are taking a new approach to solving some of our customers' toughest environmental problems.

We call it ecomagination.

Impact of ecomagination:

If every household in the U.S. replaced one 100-watt Incandescent light bulb with a GE compact fluorescent bulb equivalent in light output, over the bulb's life, we would save enough energy to power more than **1 million U.S. homes for an entire year.**

Our Heritage, Our Future

We believe that better technology is the answer to our customers' environmental challenges. And we are confident we can find tomorrow's solutions to those challenges just as we have since the days of our founder, Thomas Edison.

Throughout our 116-year history, we have invented solutions to meet our customers' greatest needs. Over many years, we have developed one of the broadest ranges of environmentally advanced technologies. We will build on this legacy of success by researching and developing next-generation clean technologies. Our goal is to be a leader in bringing clean energy, air, and water and improved quality of life to all of the world's citizens.

imagination at work

GE Lighting & Electrical Institute

- World renowned training and education center at historic Nela Park in Cleveland, Ohio
- Impressive full-scale lighting demonstrations plus comprehensive electrical distribution solution center
- Variety of scheduled courses offered throughout the year, taught by experienced industry professionals
- Accreditation through IACET – International Association for Continuing Education and Training

Call **1-800-255-1200**, or visit **www.gelighting.com**

E-tools from the Institute:

- Mondays at noon and Mondays at 1/2 past noon – live webcasts each week to sharpen your product and application knowledge on lighting and electrical distribution products
- Specifier Technical Tuesdays – monthly webcasts on lighting and electrical distribution, designed for the specification community
- Value*Light – GE's award-winning cost of light analysis program
- The Lighting Toolkit – a collection of 7 simple estimating tools including a Simple Energy Calculator, Lighting Layout Estimator, and the Watts Per Square Foot Estimator
- The Lighting Assistant – a set of 26 user-friendly tools and additional resources
- Light Beams – a comprehensive beam rendering and design tool for GE's reflectorized lamps

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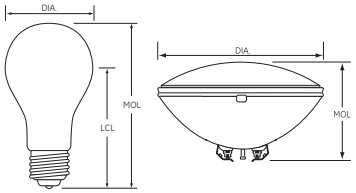
Use Learning Central to register for Institute courses, enroll in online courses, schedule a customized onsite conference, track your progress, and more!

Visit **www.gelearningcentral.com**

Incandescent Lamps

Incandescent Lamps

Bulb Identification



DIA: Diameter of bulb at widest point.

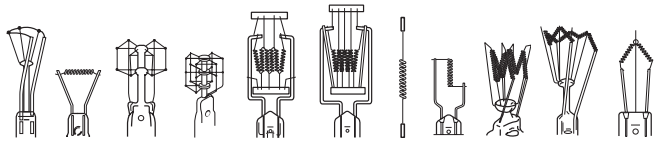
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

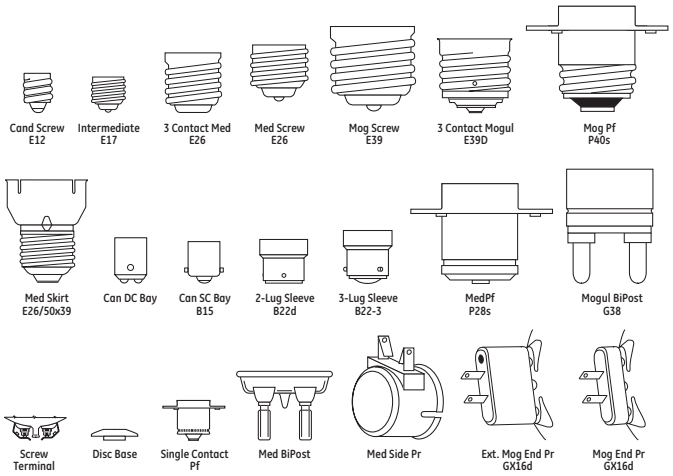
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

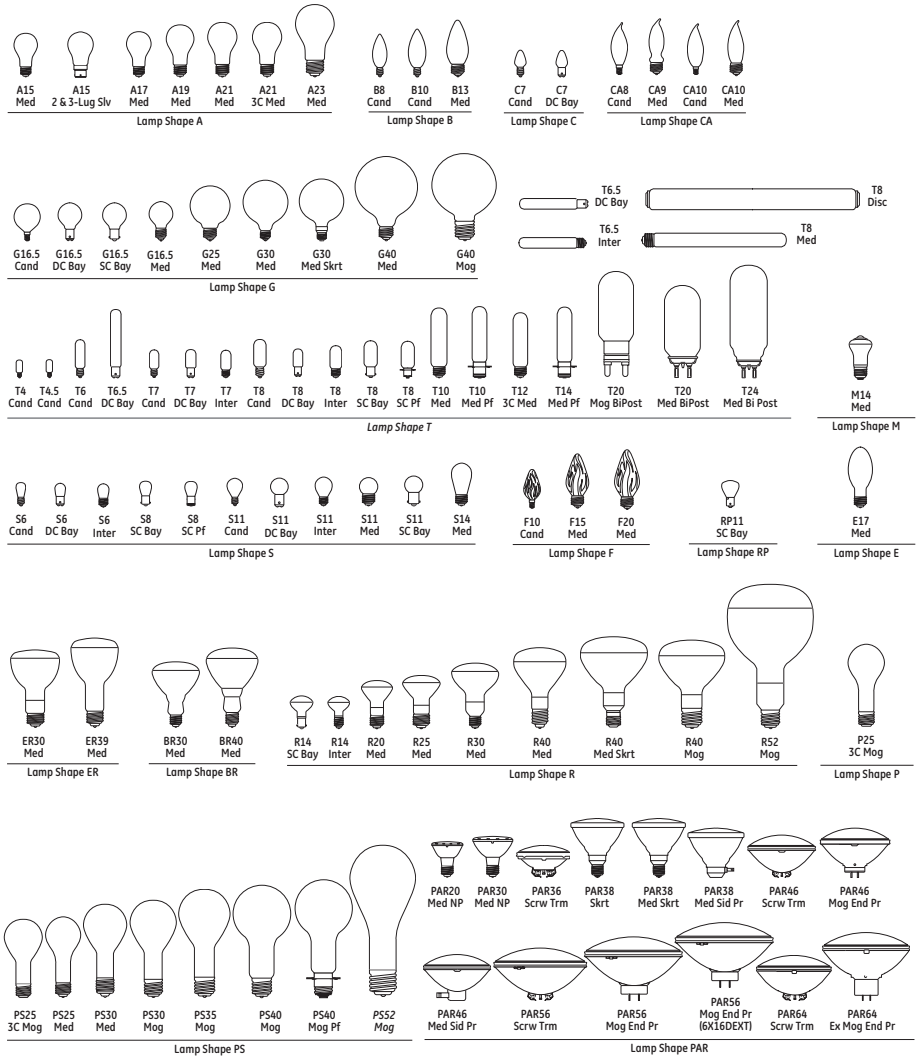
Filament Identification



Base Identification



Lamp Locator



Incandescent Lamps

Introduction

GE's incandescent lamps trace their ancestry to the world's first practical electric bulb, invented by Thomas Alva Edison, founder in 1879 of the company that became General Electric Company.

More than a century of research and development later, the present range of GE incandescent lamps represents the state of the art of lamps for residential and commercial use, as well as special purpose lamps for decorative or display applications.

In an incandescent lamp, light is generated by heating the filament to incandescence. The hotter the filament, the more efficient it is in converting electricity to light. However, when the filament operates hotter, its life is shortened so the design of each lamp is a balance between efficiency and life. This is why lamps of equal wattage may have different lumen ratings and different life ratings.

Incandescent lamps of similar size are commonly available with different wattage ratings. The fixture wattage limit should not be exceeded.

Protection From Moisture

When Hard Glass appears in the Additional Information column, the outer bulbs are made of special thermal-shock-resistant glass. Sometimes external protection of the lamps is also needed to eliminate the chance of bulb breakage due to contact with water during operation. Footnotes will indicate when external protection is needed. Where Hard Glass is not indicated, the bulb glass is such that the lamps require protection from exposure to mist or condensation as well as direct contact with water during operation.

Rated Life

Values are based on a large number of representative lamps under controlled conditions. Individual lamps or groups of lamps may vary from the Rated Life shown. Rated Life is a median value of life expectancy – the total operating time at which under normal conditions 50% of any large group of initially installed lamps are expected to be still burning.

Incandescent Brand Name Cross-Reference

GE	OSRAM/SYLVANIA	PHILIPS
Reveal®	—	—
Bug-Lite	Bug Lite	Bug-A-Way®
covRguard®	Safeline	Silicone Coated
Saf-T-Gard®	—	—
Soft Pink	Soft Pink	Softone Pastels
Plant Light	Spot-GRO	Agro-Lite
Long Life Soft White	Double Life™ Soft White	Longer Life Soft White
Party Light	—	—
Watt-Miser®	Super Saver®	Econ-o-Watt®
Watt-Miser® Plus	Super Saver Excel®	Extended Service

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE brands. Individual lamp manufacturers' product offerings and performance specifications should be consulted. Lamp performance may be affected by environmental conditions, and/or auxiliary equipment.

Reveal®
A-line

Long Life
BR30 Reflector
Floodlight or
Spotlight

GE Reveal® Light Bulbs

Superior light quality over regular incandescent that:

- Produces "clean, beautiful light®" for more vibrant colors
- Contains Neodymium glass that filters out dulling yellow rays
- Is available in 40-150 watt A-Line
- Also available for nearly every application from candle shapes to flood lights
- A color-enhanced full-spectrum light bulb

GE Rough Service A-Line Bulbs

Built to last, even under many "rough" service conditions...

- Extra filament support design protects against early burnouts caused by bumps, jars and vibration
- Longer life
- Dual Voltage Rating (120V/130V) provides application flexibility
- Saf-T-Gard® coating available – coating is shatter and weather-resistant; resists breakage from heat and thermal shock that can occur from water, sleet, snow, molten solder and weld spatter

GE Long Life Floodlight or Spotlight

- 25% longer life than standard reflectors. Ideal for use in high ceilings and hard-to-reach track lighting
- Easy replacement – same length and width as standard R bulbs
- Some lumen loss from standard reflectors (see listing for lumen values)
- Available in 45W floodlight and 65W floodlight and spotlight

Uses:

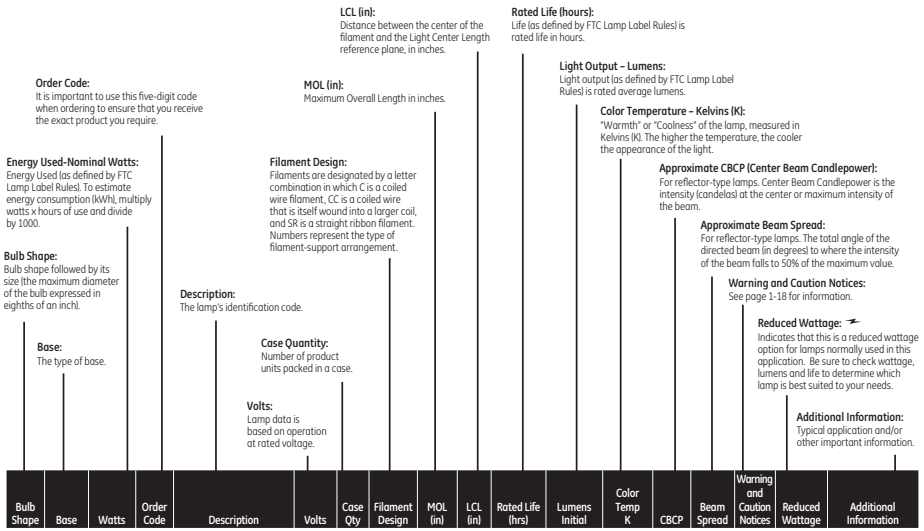
- Down lighting, display lighting, accent lighting, wall washing
- Wherever standard reflector bulbs are used

Incandescent Lamps

Headings in this catalog section

The following terms and descriptions can help you when checking Incandescent lamp specifications and when ordering products.

Within this product line, lamps are divided by wattage. Within wattage, lamps are listed alphabetically by bulb shape.



WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify the lamp wattage.
2. Measure bulb diameter using ruler in appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 1-2.
4. Find your lamp in the table containing the bulb wattage, then match the shape, size and base, which are all listed alphabetically.

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps																	
3 Watts																	
S6	Cand	3	11098	3S6/5 24PK	130	24	C-7A	1.87	1.37	3000	11						Clear-Indicator
4 Watts																	
C7	Cand	4	16001	4C7/W CD2	120	240	C-7A	2.12		3000					2e		White-Long Life Night Light
		4	43050	4C7 CARD 2	120	240	C-7A	2.12		3000					2e		Long Life Clear Night Light
		4	73257	4C7/S/CD4-6PK	120	6	C-7A	2.12		2000					2e		Standard-Clear Night Light
		4	73258	4C7/S/W/CD4-6PK	120	6	C-7A	2.12		2000					2e		Standard-Clear Night Light
		4	73259	4C7/PK/CD2-6PK	120	6	C-7A	2.12		3000					2e		Pink-Long Life Night Light
		4	73260	4C7/BL/CD2-6PK	120	6	C-7A	2.12		3000					2e		Blue-Long Life Night Light
6 Watts																	
S6	Cand	6	11316	6S6 24PK	12	24	C-2V	1.87	1.37	1500	50						Clear-Indicator
		6	11329	6S6	24	240	C-2V	1.87	1.37	1500	50						Clear-Indicator
		6	11331	6S6 24PK	30	24	C-2V	1.87	1.37	1500	50						Clear-Train
		6	43397	6S6 BB	32	24	C-2V	1.87	1.37	1500	50						Clear-Train
		6	11367	6S6 TRAY	120	240	C-7A	1.87	1.37	1500	41						Clear-Indicator. 12-Lamp Tray
		6	11577	6S6/3	120	240	C-7A	1.87	1.37	5000	23						Clear-Signal Light
		6	15820	6S6 CARD2	120	240	C-7A	1.87	1.37	1500	41						Clear-Indicator
		6	11369	6S6 TRAY	130	240	C-7A	1.87	1.37	1500	41						Clear-Indicator, 12-Lamp Tray
		6	11372	6S6	145	240	C-7A	1.87	1.37	1500	41						Clear-Indicator
		6	11374	6S6	155	240	C-7A	1.87	1.37	1500	41						Clear-Indicator
S6	DC Bay	6	11357	6S6DC 24PK	75	24	C-7A	1.81	1.43	1500	45						Clear-Indicator
		6	11592	6S6DC TRAY	120	240	C-7A	1.81	1.43	1500	41						Clear-Indicator, 12-Lamp Tray
		6	11594	6S6/DC TRAY	130	240	C-7A	1.81	1.43	1500	41						Clear-Indicator, 12-Lamp Tray
		6	11609	6S6DC 24PK	145	24	C-7A	1.81	1.43	1500	41						Clear-Indicator, 12-Lamp Tray
S6	Inter	6	11660	6S6/7 TRAY 24PK	120	24	C-7A	1.81	1.06	1500	41						Clear-Indicator, 12-Lamp Tray
T4.5	Cand	6	11764	6T41/2/1	130	100	C-7A	1.87	1.31	1500	42						Clear-Indicator
7 Watts																	
C7	Cand	7	11779	7C7 TRAY	120	240	C-7A	2.12		3000	46						Clear-Indicator, 12-Lamp Tray
		7	11815	7C7/W TRAY	120	240	C-7A	2.12		3000	36						White-Indicator, 12-Lamp Tray
		7	11792	7C7 TRAY	130	240	C-7A	2.12		3000	46						Clear-Indicator, 12-Lamp Tray
7.5 Watts																	
S11	Med	8	11847	7 1/2S TRAY	120	240	C-9	2.25		1400	53						Clear-12-Lamp Tray
		8	73261	71/2S/CW/CD-5PK	120	5	C-9	2.25		1400	39				2e		White
		8	11848	7 1/2S TRAY	130	240	C-9	2.25		1400	53						Clear-12-Lamp Tray
		8	11922	7 1/2S/CW TRAY	130	240	C-9	2.25		1400	39						White-12-Lamp Tray
10 Watts																	
S6	Cand	10	12041	10S6/10	230	24	C-7A	1.87	1.37	1500	66						Clear-Indicator
		10	12050	10S6/10 24PK	250	24	C-7A	1.87	1.37	1500	66						Clear-Indicator
S6	DC Bay	10	12060	10S6/10DC 24PK	230	24	C-7A	1.87	1.87	1500	66						Clear-Indicator
S11	Cand	10	12249	10S11/79	120	120	C-7A	2.25	1.56	1000	80						Clear-Indicator
		10	12188	10S11N/F	120	120	C-7A	2.31	1.62	1000	79						Frost-Appliance
11 Watts																	
S14	Med	11	12575	11S14	130	120	C-9	3.50	2.50	3000	76						Clear-Sign
		11	12589	11S14/IF	130	120	C-9	3.50	2.50	3000	76						I.F.-Sign
		11	12621	11S14/R	130	120	C-9	3.50	2.50	3000							Red-Sign
		11	12632	11S14/Y	130	120	C-9	3.50	2.50	3000							Yellow-Sign
12 – 13.5 Watts																	
S8	SC Bay B15	12	10690	12S8/93T-CD2 6PK	12	240	C-2R	2.00	1.25	1000	200				2g		Low Voltage, High Intensity
S11	SC Bay BA15s	14	12649	13/3 1/2 S11/95	10	120	CC-6/ C-12	2.37	1.25	1000	180						Clear-Railway Signal Light, Filament in Multiple

For the most up-to-date product information, see www.gelighting.com.

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All warning and caution notices found at the end of this section (page 1-18).

Incandescent Lamps

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps (continued)																	
15 Watts																	
A15	Med	15	12784	15A	34	120	C-9	3.56	2.37	1000	180				5a		I.F.-Train
		15	97491	15A/W-2PK	120	24	C-9	3.50	2.37	2500	110						Soft-White
		15	12658	15A15	130	120	C-9	3.50	2.37	2500	115						Inside Frost
		15	97488	15A15/CL-2PK	120	24	C-9	3.50	2.37	3000	110						Clear
R14	SC Bay B15	15	33404	15R14SC/SP	12	120	CC-8	2.62		2000	120						Reflector Spot
S11	Cand	15	13210	15S11/13	120	120	C-7A	2.25	1.56	750	115						Clear
S11	DC Bay	15	13188	15S11/3DC	75	120	C-9	2.37	1.25	1000	138						Clear-Train
S11	Med	15	13291	15S11/102	120	240	C-7A	2.25		400	120						Clear-Refrigerator, 12-Lamp Tray
S14	Med	15	42590	15S14/FBB	34	120	C-9	3.50	2.50	1000	144						Frost-Locomotive Cab
		15	11137	15S14/GR/CL/8	130	120	C-9	3.50	2.50	8000	90						Clear-Sign, Group Replacement
T6	Cand	15	13390	15T6	120	60	C-7A	3.06	1.56	2000	107						Clear-Exit
		15	13402	15T6	145	60	C-7A	3.06	1.56	1500	102						Clear-Exit
		15	22114	15T6C-CD	145	120	C-7A	3.06	1.56	1500	102						Clear-Exit, Blister Card
T7	Cand	15	13494	15T7C	120	120	C-7A	2.25	1.50	3000	108						Clear-Signal Light, Appliance
T7	DC Bay	15	35154	15T7DC CARD	120	240	C-7A	2.25	1.31		108						Clear-Appliance, 12-Pack
T7	Inter	15	35153	15T7N CARD	120	240	C-7A	2.25	1.56		108						Clear-Appliance
15/135/150 Watts																	
A21	Med	15/135/150	23068	15/150-SECURITY	120	60	C-2R/CC-8	5.25	3.87	1200	75/2080/2155		35000		2b, 9c, 9j		Security 3-Way, Soft-White
18 Watts																	
S11	SC Bay BA15s	18	13655	18S11/1SC	10	120	CC-6	2.37	1.25	2000	200						Clear-Railway Signal Light
20 Watts																	
T6.5	DC Bay	20	34241	20T61/2DC/F	120	60	C-8	5.56		5000	90						Frost-Exit Light
T6.5	Inter	20	34272	20T61/2/F	120	60	C-8	5.50		7000	90						Frost-Exit Light
25 Watts																	
A19	Med	25	97478	25A/CL-2PK	120	24	CC-6	4.25	2.50	2500	215						Clear
		25	97857	25A/CL/2PK-130V	130	24	CC-6	4.25	2.50	2500	215						Clear
		25	97864	25A/2PK-130V	130	24	CC-6	4.25	2.50	2500	215						Inside Frost
		25	97492	25A/W-2PK	120	24	CC-6	4.25	2.50	2500	210						Soft White
		25	16333	25A/TP-CD 6PK	120	24	C-9	3.87	2.37	2000							Transp. Purple-Party Light
		25	16335	25A/TY-CD 6PK	120	24	C-9	3.87	2.37	2000							Transp. Yellow-Party Light
		25	22731	25A/TP 6 PK	120	120	C-9	3.87	2.37	2000							Transp. Purple-Party Light
		25	49728	25A/TY 6PK	120	120	C-9	3.87	2.37	2000							Transp. Yellow-Party Light
		25	49724	25A/TB 6PK	120	120	C-9	3.87	2.37	2000							Transp. Blue-Party Light
		25	22732	25A/TE 6PK	120	120	C-9	3.87	2.37	2000							Transp. Teal-Party Light
		25	49725	25A/TG 6PK	120	120	C-9	3.87	2.37	2000							Transp. Green-Party Light
		25	22730	25A/TPK 6PK	120	120	C-9	3.87	2.37	2000							Transp. Pink-Party Light
		25	49727	25A/TR 6PK	120	120	C-9	3.87	2.37	2000							Transp. Red-Party Light
		25	46645	25A/SG/CD-PQ1/5	120	25	CC-6	4.25	2.50	1500							Stained Glass
		25	73256	25A/SG/CD2-PK3	120	25	CC-6	4.25	2.50	1500							Stained Glass
R14	Inter	25	73280	25R14/N/CD-3PK	120	3	CC-2V	2.56		1500					5e		Reflector-Light, Inside Frost
		25	18230	25R14N	130	120	CC-2V	2.56		1500	180				5e		Reflector-Light, Inside Frost
R14	SC Bay B15	25	33405	25R14SC/SP	12	120	CC-8	2.62		2000	200				5e		Reflector Spot, Light I.F.
S11	SC Bay BA15s	25	14575	25S11/4SC	10	120	CC-6	2.37	1.25	1000	360						Clear-Railway, Signal Light
T6.5	DC Bay	25	14676	25T61/2DC	120	60	C-8	5.56		1000	220						Clear-Appliance, Scale Illuminator
		25	14678	25T61/2/DC	130	60	C-8	5.56		1000	244						Clear-Appliance, Scale Illuminator
		25	14685	25T61/2DC/F	130	60	C-8	5.56		1000	240						Frost-Appliance, Scale Illuminator

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Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps (continued)																	
25 Watts (continued)																	
T6.5	Inter	25	14639	25T61/2	120	60	C-8	5.50		1000	220						Clear-Showcase
		25	14641	25T61/2	130	60	C-8	5.50		1000	244						Clear-Showcase
		25	14668	25T61/2/F	130	60	C-8	5.50		1000	240						Frost-Showcase
T7	DC Bay	25	14741	25T7DC	120	60	C-7A	2.25	1.31	1000	195						Clear-Appliance
T7	Inter	25	10692	25T7N-CD 6PK	120	240	C-7A	2.25	1.56	1000	195						Clear-Appliance
		25	14791	25T7N	120	60	C-7A	2.25	1.56	1000	195						Clear-Appliance
T10	Med	25	45144	25T10 CD1-5PK	130	25	C-8	5.62		1000	248						Clear-Display Light
		25	45513	25T10/F CD1-5PK	130	25	C-8	5.62		1000							Frost-Display Light
27 Watts																	
R20	Med	27	47681	27R20/FL/LL 6PK	120	30	CC-6	3.93		2500	190					✓	Long Life Reflector-Indoor Spotlight
30 Watts																	
A15	Med	30	14129	30A15	130	120	C-9	3.50	2.37	5000	215						I.F. Changing, Message Sign
		30	15291	30A15/CL	130	120	C-9	3.50	2.37	5000	215						Clear Changing, Message Sign
		30	19358	30A15/8	130	120	C-9	3.50	2.37	8000	180						I.F.-Sign
R20	Med	30	14891	30R20/1-6PK	120	30	CC-6	3.93		2000	200				5b, 9k		Indoor Reflector
		30	46848	30R20/1	130	30	C-9	3.93		2000	200				5b, 9k		Indoor Reflector-Light I.F
		30	46849	30R20/6	130	30	C-9	3.93		6000	145				9d		Reflector-Light I.F.-Flashing Message Sign
30/70/100 Watts																	
A21	Med	30/70/100	97493	30/100-1PK	120	12	C-2R/CC-8	5.25	3.88	1200	305/995/1300				2b, 5c, 9c, 9j		Soft-White, 3-Way
		30/70/100	97784	30/100RVL- PQ1/12	120	12	C-2R	5.25	3.88	1200	220/740/960				2b, 9c, 9j		Reveal® Soft-White, 3-Way
34 Watts																	
A19	Med	34/30	97848	40A/34WM	130/120	24	CC-6	4.43	3.12	2000/5400	365/270					✓	Watt-Miser® Diffuse Coating
38 Watts (Complies with California Title 20 Regulations)																	
A19	Med	38	70688	38A 48PK	120	144	CC-6	4.43	3.12	1000	465					✓	Inside Frost
		34/38	71950	38A/130V-4PK	130/120	144	CC-6	4.43	3.13	2000/5400	390/290					✓	Inside Frost
		38	71958	38A/W-4PK	120	144	CC-6	4.43	3.12	1000	455					✓	Soft White
		38	71978	38A/CL-2/12PK	120	24	CC-6	4.43	3.12	1500	440					✓	Clear
		34/38	71985	38A/CL/2PK-130V	120/130	24	CC-6	4.43	3.13	1500/4000	435/310					✓	Clear
40 Watts																	
A15	Med	40	15199	40A15	120	120	C-9	3.50	2.37	1500	1500						Clear-Appliance and Oven Service, Vibration Resistant
		40	15206	40A15 CARD 12PK	120	60	C-9	3.50	2.37	1500	415						Clear-Appliance and Oven Service, Vibration Resistant
		40	21188	40A15 CD/2	120	60	C-9	3.50	2.37	1500	415						Clear-Appliance and Oven Service, Vibration Resistant
		40	27495	40A15/F/CD	120	60	C-9	3.50	2.37	1500	355						Frosted-Appliance and Oven Service, Vibration Resistant
		40	27451	40A15/F 120PK	120	120	C-9	3.50	2.37	1500	355						Frost
		40	73187	40A15/RVL/CD2-6PK	120	6	C-9	3.50	2.37	1000	320						Reveal®
		40	20451	40A15/CF CD2	120	60	C-9	3.50	2.37	1500	415						Clear-Ceiling Fan, Vibration Resistant
		40	47260	40A15/CF/CD4-6PK	120	30	C-9	3.50	2.37	1500	415						Clear-Ceiling Fan, Vibration Resistant
		40	20452	40A15/W/CF CD2	120	60	C-9	3.50	2.37	1500	355						White-Ceiling Fan, Vibration Resistant
		40	73184	40A15/CF/RVCD2-6P	120	6	C-9	3.50	2.37	1000	320						Reveal®-Ceiling Fan, Vibration Resistant
		40	73185	40A15/W/CF/RV/CD2-6P	120	6	C-9	3.50	2.37	1000	260						Reveal® Soft-White, Ceiling Fan, Vibration Resistant
		40	46887	40A15/CF/STGPQ2/6	120	30	C-9	3.50	2.37	1500	400				9l		Clear, Saf-T-Gard®, Ceiling Fan

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Incandescent Lamps

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps (continued)																	
40 Watts (continued)																	
A15	Cand	40	71393	40A15/CA/C/CF-CD2	120	6	C-7A	3.50	2.37	1500	305						Clear-Ceiling Fan, Vibration Resistant
		40	71394	40A15/CA/W/CF-CD2	120	6	C-7A	3.50	2.37	1500	230						White-Ceiling Fan, Vibration Resistant
A19	Med	40	97470	40A/CL-2PK	120	24	CC-6	4.43	3.12	1500	480						Clear
		40	13255	40A 48PK	120	144	CC-6	4.43	3.12	1000	505						Standard
		40	13257	40A/W 48PK	120	144	CC-6	4.43	3.12	1000	490						Standard
		40	48687	40A/RVL 48PK	120	144	CC-6	4.43	3.12	1000	360						Reveal® Soft-White
		40	81869	40A/CL/RVL 24PK	120	120	CC-6	4.43	3.12	1000	370						Reveal® Clear
		40	97480	40A/Y-2/10PK	120	20		4.43	3.12								Yellow-Bug Light
R14	Inter	40	25777	40R14/N/CD	120	30	CC-2V	2.68		1500					2a, 5e		Indoor Reflector
R14	Med	40	25776	40R14/CD	120	30	CC-2V	2.18		1500					2a, 5e		Indoor Reflector
R16	Med	40	73279	40R16/CD-3PK	120	30	CC-6	3.37		1500					5b, 9k		Reflector
S11	Inter	40	15734	40S11N/1/F	120	120	C-9	2.31	1.62	500	440				5b		Frost
		40	35156	40S11N/1 CARD	120	240	C-9	2.31	1.62	500	440				5b		Clear-12-Card Pack
T6.5	Inter	40	15740	40T6 1/2/2	120	60	C-8	5.50		750	420						Clear-Refrigerator
		40	44422	40T61/2/2CD1-6PK	120	30	C-8	5.50		750	420						Clear-Appliance
		40	15742	40T61/2/2F	120	60	C-8	5.50		750	420						Frost-Appliance
T10	Med	40	15852	40T10	120	120	C-8	5.62		1000	420						Clear-Showcase
		40	15892	40T10/F	120	120	C-8	5.62		1000	415						Frost-Showcase
		40	45145	40T10/F CD1-5PK	120	25	C-8	5.62		1000	415						Frost-Display Light
		40	45514	40T10/CL CD1-5PK	120	25	C-8	5.62		1000	420						Clear-Display Light
		40	48707	40T10/RVL CD1	120	25	C-8	5.63		1000							Reveal® – Clear
		40	48709	40T10/F/RVL CD1	120	25	C-8	5.63		1000							Reveal® – Frost
45 Watts																	
BR30	Med	45	20330	45R/FL/MI-1 6PK	120	30	CC-6	5.37		2000	485		300		2a, 5e, 9k	✒	Reflector Flood
		45	26804	45R30/FL/LL 6PK	120	30	CC-6	5.37		2500	450				2a, 5e, 9k	✒	Reflector Flood-Long Life
R20	Med	45	47682	45R20/FL/LL 6PK	120	30	CC-6	3.31		2500	400				2a, 5e, 9k	✒	Long Life Indoor Floodlight
		45	73026	45R20/YR	120	6	CC-6	3.31		1500	350				2a, 5e, 9k	✒	Indoor Reflector
		45	73025	45R20/YR-PK2/3	120	3	CC-6	3.31		1500	350				2a, 5e, 9k	✒	Indoor Reflector
		45	73029	45R20/130V	130/120	30	CC-6	3.31		2000/4000					2a, 5e, 9k	✒	Indoor Reflector
		45	73439	45R20/RVL PK1/6	120	30	CC-6	3.31		2000					2a, 5e, 9k	✒	Indoor Reflector
50 Watts																	
A19	Med	50	16201	50A19/RS/SH	75	120	C-9	3.87	2.50	1000	545				2a, 5a		Long Life Indoor Spotlight
ER30	Med	50	47878	50ER30/PK	120	24	CC-6	6.25		2000	480				2a, 2b, 5e		Elliptical Reflector – Pink
P25	3C Mog E39D	50	16535	50/50P25/28	120	60	C-5/C-9	5.06	3.31	750	400				9c		Clear-2-filament Marine Running Light, BB
R20	Med	50	14888	50R20/PL/1-6PK	120	30	CC-6	3.93		2000					2a, 5e, 9k		Reflector Plant Light
R20	Med	50	22752	50R20/BLB 6PK	120	6	CC-6	3.93		1000					2a, 2f, 5b, 7a, 7c, 9k		Blacklight Reflector
		50	46854	50R20/HP/1	120	30	CC-6	3.93		2000					2a,5e		Reflector, Hot Pink
		50	46853	50R20/PK/1	130	30	CC-6	3.93		2000					2a,5e		Reflector, Pink
		50	48038	50R20/FUS 130V	130	30	CC-6	3.93		2000					2a,5e		Reflector, Fusia
T12	Med	50	16726	50/50T12	115	24	C-5/C-9	5.31	3.00	750	400						Clear-2-filament Marine Running Light, BB
50/100/150 Watts																	
A21	Med	50/100/150	97494	50/150-1PK	120	12	CC-8	5.25	3.88	1200	615/1540/2155				2b, 9j		Soft-White, 3-Way
		50/100/150	97763	50/150-2PK	120	6	CC-8	5.25	3.88	1200	615/1540/2155				2b, 9j		Soft-White, 3-Way
		50/100/150	97785	50/150RVL-1/12PQ	120	12	CC-8	5.25	3.88	1200	450/1150/1600				2b, 9j		Reveal®, Soft-White 3-Way
		50/100/150	97469	50/150/RVL-2PK	120	6	CC-8	5.25	3.875	1200	450/1150/1600				2b, 9j		Reveal®, Soft-White 3-Way
		50/100/150	97781	50/150/LL-1/12PK	120	12	CC-8	5.25	3.87	2400	500/1350/1850				2b, 9j		Long Life, Soft-White 3-Way
50/200/250 Watts																	
A21	Med	50/200/250	97482	50/250/1-1PK	120	12	CC-8/CC-25	5.25	3.87	1200	620/3335/3955				2b, 9c, 9j		Soft-White, 3-Way

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Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps (continued)																	
52 Watts																	
A19	Med	52/46	97849	60A/52WM-130V	130/120	24	CC-8	4.43	3.12	1000/2600	710/530					✒	Watt-Miser® Diffuse Coating
57 Watts (Complies with California Title 20 Regulations)																	
A19	Med	57	71909	57A 48PK	120	144	CC-6	4.43	3.12	1000	780					✒	Inside Frost
		57/50	71951	57A/130V-4PK	130/120	144	CC-8	4.43	3.12	1200/3200	760/570					✒	Inside Frost
		57	71959	57A/W-4PK	120	144	CC-6	4.43	3.12	1000	770					✒	Soft-White
		57	71979	57A/CL-2/12PK	120	24	CC-6	4.43	3.12	1000	790					✒	Clear
		57/50	72248	57A/CL/2PK-130V	130/120	24	CC-8	4.43	3.12	1200/3200	760/575					✒	Clear
		57	71970	57A/W/LL50-2PK	120	24	CC-8	4.43	3.12	1500	765					✒	Soft-White, Long Life
60 Watts																	
A19	Med	60	97490	60A/CL-2PK	120	24	CC-6	4.43	3.12	1000	870						Clear
		60	41026	60A 48PK	120	144	CC-6	4.43	3.12	1000	865						Standard
		60/53	97858	60A/2PK-130V	130/120	24	CC-6	4.43	3.12	1000/2600	850/640						Inside Frost
		60	41028	60A/W 48PK	120	144	CC-6	4.43	3.12	1000	840						Soft-White
		60	48688	60A/RVL 48PK	120	144	CC-8	4.43	3.12	1000	630						Reveal® Soft-White
		60	73188	60A/CL/RVL-PK24	120	120	CC-6	4.43	3.12	1000	650						Reveal® Clear
		60	97496	60A/W/LL-2PK	120	24	CC-6	4.43	3.12	1500	820						Soft-White
		60	22361	60A/COMM 24PK	120	24	CC-6	4.43	3.12	1000	855						Inside Frost
		60/53	72529	60A/RS130-PK2/12	130/120	24	C-7A	4.43	3.12	2000/5400	500/380				2a, 5e		Rough Service
		60/53	72549	60A/RS/STG-T2/12	130/120	24	C-7A	4.43	3.12	2000/5400	500/380				2a		Rough service Saf-T-Gard®
		60	97483	60A/SPK-2PK	120	24	CC-6	4.43	3.12	1000	675				2b		Pink
		60	72816	60A/SPK-2/10PK	120	20	CC-6	4.43	3.12	1000	675				2b		Soft Pink
		60	97495	60A/Y-2PK	120	24	CC-6	4.43	3.12	1000	550						Yellow-Bug Light
		60	25905	60A/BLB 6PK	120	30	C-9	4.43		1000					2a, 2f, 5b, 7a, 7c, 9k		Blacklight
		60	73277	60A/BLB/TW-6PK	120	6	C-9	4.43	3.12	1000					2a, 2f, 5b, 7a, 7c, 9k		Blacklight
		60	73181	60A/NET-6PK	120	6	CC-8	4.44	3.13	1000							
		60	41624	60A/PL 6PK	120	30	CC-6	4.43	3.12	1000	630				5e		Plant
A15	Med	60	17759	60A15/CF CD2	120	60	C-9	3.50	2.37	1500	650						Clear-Ceiling Fan and Appliance, Vibration Resistant
		60	47259	60A15/CF/CD4-6PK	120	30	C-9	3.50	2.38	1500	650						Clear, Ceiling Fan
		60	14029	60A15/W/CF-CD2	120	60	C-9	3.50	2.37	1500	650						White-Ceiling Fan, Vibration Resistant
		60	73186	60A15/CF/RVL/CD2-6PK	120	6	C-9	3.50	2.38	1500	480						Reveal® Ceiling Fan, Vibration Resistant
		60	73182	60A15/W/CF/RVL/CD2-6PK	120	6	C-9	3.50	2.38	1500	465						Reveal,® Soft-White
		60	46888	60A15CF/STGPQ2/6	120	30	C-9	3.50	2.37	1500	650				9l		Ceiling Fan Saf-T-Gard®
A15	Cand	60	71395	60A15/CA/C/CF-CD2	120	6	C-7A	3.50	2.37	1500							Clear-Ceiling Fan, Vibration Resistant
		60	71396	60A15/CA/W/CF-CD2	120	6	C-7A	3.50	2.37	1500							White-Ceiling Fan, Vibration Resistant
T10	Med	60	45141	60T10 CD1-5PK	120	25	C-8	5.63		1000	740						Clear-Display Light
		60	17292	60T10/64 24PK	120	192	C-8	5.62		1000	740						Clear-Showcase, BDTH
		60	48710	60T10/RVL CD1	120	25	C-8	5.63		1000							Reveal® – Clear
65 Watts																	
BR30	Med	65	18011	65R/FL/MI-TWIN	120	6	CC-6	5.37		2000	755				2a, 5e, 9k	✒	Reflector Flood Twin Pink
		65	20331	65R30/FL/MI- 6PK	120	30	CC-6	5.37		2000	755				2a, 5e, 9k	✒	Reflector Flood
		65	20332	65R30/SP/MI-6PK	120	30	CC-6	5.37		2000	755				2a, 5e, 9k	✒	Reflector
		65	22714	65R30FL/COMM12PK	120	12	CC-6	5.37		2000	770				2a, 5e, 9k	✒	Reflector Flood 12 Pack
		65	26805	65R30/FL/LL 6PK	120	30	CC-6	5.37		2500	725				2a, 5e, 9k	✒	Long Life Reflector-Flood
		65	48917	65R30/FL/LLPQ2/3	120	15	CC-6	5.37		2500	725				2a, 5e, 9k	✒	Long Life Indoor Floodlight
		65	26806	65R30/SP/LL 6PK	120	30	CC-6	5.37		2500	725				2a, 5e, 9k	✒	Long Life Spotlight
		65	73183	65R30/FL/RVL-6PK	120	6	CC-6	5.37		2000					2a, 2b, 5e, 9k	✒	Reveal® Floodlight
		65	73179	65R30/RVL/TW-3PK	120	3	CC-6	5.37		2000					2a, 2b, 5e, 9k	✒	Reveal® Floodlight

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Incandescent Lamps

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps (continued)																	
65 Watts (continued)																	
BR30	Med	65	46858	65R30/FL/CVG	120	30	CC-6	5.37		2000					2a, 2b, 5e, 9a, 9l		Reflector-covRguard® Coated
		65	47723	65R30FL/STGPQ1/6	120	30	CC-6	5.37		2000					2a, 2b, 5e, 9k, 9a, 9l	⊸	Indoor Flood Light-Saf-T-Gard®
		65	41837	65R30/SP/HP	120	30	CC-6	5.37		2000					2a, 5e, 9k		Indoor Reflector, Hot Pink
		65	26803	65R30/FL/PK	120	30	CC-6	5.37		2000					2a, 5e, 9k	⊸	Reflector – Pink
		65	26641	65R30/FL/B	120	30	CC-6	5.37		2000					2a, 5e, 9k	⊸	Reflector – Blue
		65	26642	65R30/FL/G	120	30	CC-6	5.37		2000					2a, 5e, 9k	⊸	Reflector – Green
		65	26645	65R30/FL/Y	120	30	CC-6	5.37		2000					2a, 5e, 9k	⊸	Reflector – Yellow
		65	20996	65R30/PL-1 6PK	120	30	CC-6	5.37		2000					2a. 5e. 9k	⊸	Reflector-Plant Light, BB
		65	46855	65R30/FL	130	30	CC-6	5.37		2000	725				2a, 2b, 5e, 9k	⊸	Watt-Miser® Reflector
		65	46856	65R30/SP	130	30	CC-6	5.37		2000	725				2a, 2b, 5e, 9k	⊸	Watt-Miser® Reflector
		65	46857	65R30/FL/PK	130	30	CC-6	5.37		2000					2a, 2b, 5e, 9k	⊸	Watt-Miser® Reflector-Pink
		65	48039	65R30SP/FUS 130V	130	30	CC-6	5.37		2000					2a, 2b, 5e, 9k	⊸	Indoor Reflector, Fusia
BR40	Med	65	14016	65R40/FL/MI-6PK	120	30	CC-6	6.56		2000	730				2a, 2b, 5e, 9k		Reflector Flood
		65	47683	65R40/FL/LL	120	30	CC-6	6.56		2500	650				2a, 2b, 5e, 9k		Long Life Reflector-Indoor Floodlight
		65	46861	65R40/FL	130	30	CC-6	6.56		2000	700				2a, 2b, 5e, 9k		Watt-Miser® Reflector-I.F.
BR40	Med	65	87904	65R40FL/RVL-TP6	120	30	CC-6	6.56		2000					2a, 2b, 5e, 9k		Reveal® Reflector Flood
67 Watts																	
A19	Med	67/60	97850	75A/67WM-130V	130/120	24	CC-8	4.43	3.12	1000/2600	1000/755					⊸	Inside Frost
69 Watts																	
A21	Med	69	17325	69A21/TS	130	120	C-9	4.37	2.43	8000	675					⊸	Clear-Traffic Signal, BDTH
71 Watts (Complies with California Title 20 Regulations)																	
A19	Med	71	71910	71A 48PK	120	144	CC-6	4.43	3.12	750	1075					⊸	Inside Frost
		71/63	71952	71A/130V-4PK	130/120	144	CC-8	4.43	3.12	750/1950	1050/790					⊸	Inside Frost
		71	71960	71A/W-4PK	120	144	CC-6	4.43	3.12	750	1060					⊸	Soft-White
		71	71980	71A/CL-2/12PK	120	24	CC-6	4.43	3.12	750	1090					⊸	Clear
		71	71971	71AW/LL50-2PK	120	24	CC-8	4.43	3.12	1125	1055					⊸	Soft-White, Long Life
75 Watts																	
A19	Med	75	97468	75A/CL-2PK	120	24	CC-6	4.43	3.12	750	1200						Clear
		75	41030	75A 48PK	120	144	CC-6	4.43	3.12	750	1190						Standard
		75/67	97859	75A/2PK-130V	130/120	24	CC-6	4.43	3.12	750 /1950	1170/885						Standard
		75	41032	75A/W 48PK	120	144	CC-6	4.43	3.12	750	1170						Soft-White
		75	48689	75A/RVL 48PK	120	144	CC-8	4.43	3.12	750	830						Reveal® Soft-White
		75	81870	75A/CL/RVL 24PK	120	120	CC-6	4.43	3.12	750	885						Reveal® Clear
		75	97497	75A/W/LL-2PK	120	24	CC-6	4.43	3.12	1125	1125						Soft-White, Long Life
		75	22364	75A/COMM 24PK	120	24	CC-6	4.43	3.12	750	1180						Inside Frost
		75/67	72530	75A/RS130-PK6	130/120	6	C-7A	4.43	3.12	2000/5400	740/562				2a, 5e		Rough Service
A21	Med	75/67	72550	75A/RS/STG-TP6	130/120	6	C-7A	4.43	3.12	2000/5400	740/562				2a		Rough Service, Saf-T-Gard®
		75	17482	75A21	12	120	C-6	5.25	3.81	1000	1500				5a		Inside Frost
R30	Med	75	22748	75R30/BLB 6PK	120	6	C-9	5.37		1000					2a, 2f, 5b, 7a, 7c, 9k		Reflector Blacklight
85 Watts																	
PAR38	Med Skirt	85	20945	85PAR/FL/BG 6PK	120	6	CC-6	5.31		2000					1a, 2a, 2b		Yellow-Bug Light, BB
		85	13465	100PAR/B/85WM6PK	120	6	CC-6	5.31		2000					1a, 2a, 2b	⊸	Powder Coated-Blue, BB
		85	13472	100PAR/R/85WM6PK	120	6	CC-6	5.31		2000					1a, 2a, 2b	⊸	Powder Coated-Red, BB
		85	13473	100PAR/Y/85WM6PK	120	6	CC-6	5.31		2000					1a, 2a, 2b	⊸	Powder Coated-Yellow, BB

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Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps (continued)																	
85 Watts (continued)																	
PAR38	Med Skirt	85	13474	100PAR/G/85WM6PK	120	6	CC-6	5.31		2000					1a, 2a, 2b	⊸	Powder Coated-Green, BB
90 Watts																	
A19	Med	90/80	97851	100A/90WM-130V	130/120	24	CC-8	4.43	3.12	1000/2600	1440/1095					⊸	Inside Frost
95 Watts (complies with California Title 20 Regulations)																	
A19	Med	95	71911	95A 48PK	120	144	CC-8	4.43	3.12	750	1635					⊸	Standard
		95	71915	95A-2/24PK	120	24	CC-8	4.43	3.12	750	1635					⊸	Standard
		84/95	71953	95A/130V-4PK	130/120	144	CC-8	4.43	3.12	750/1950	1600/1215					⊸	Standard
		95	71961	95A/W-4PK	120	144	CC-8	4.43	3.12	750	1610					⊸	Soft-White
		95	71981	95A/CL-2/12PK	120	24	CC-8	4.43	3.12	750	1655					⊸	Clear
		95	71972	95AW/LL50-2PK	120	24	CC-8	4.43	3.12	1125	1510					⊸	Soft-White, Long Life
100 Watts																	
A19	Med	100	97489	100A/CL-2PK	120	24	CC-8	4.43	3.12	750	1750						Clear
		100	41034	100A 48PK	120	144	CC-8	4.43	3.12	750	1710						Standard
		100/89	97860	100A/2PK-130V	130/120	24	CC-8	4.43	3.12	750/1950	1680/1275						Inside Frost
		100	41036	100A/W 48PK	120	144	CC-8	4.43	3.12	750	1690						Soft-White
		100	48690	100A/RVL 48PK	120	144	CC-8	4.43	3.12	750	1260						Reveal® Soft-White
		100	81871	100A/CL/RVL 24PK	120	120	CC-8	4.43	3.12	750	1300						Reveal® Clear
		100	97761	100A/W/LL-2PK	120	24	CC-8	4.43	3.12	1125	1600						Soft-White
		100	22366	100A/COMM 24PK	120	24	CC-8	4.43	3.12	750	1690						Inside Frost
		100/89	72527	100A/RS130-PK12	130/120	12	C-7A	4.43	3.12	2000/5400	1070/813				2a, 5e		Rough Service
		100	72546	100A/RS/STG-TP6	120	100	CC-8	4.43	3.12	750	1624				2a		Rough Service Saf-T-Guard®
		100	97484	100A/SPK-2PK	120	24	CC-8	4.43	3.12	1000	1330				2b		Pink
		100	97762	100A/Y-2PK	120	24	CC-8	4.43	3.12	1000	900				2b		Yellow-Bug Light
A21	Med	100	17517	100A 60PK	277	60	C-7A	5.25	3.81	750	1250						Inside Frost
A23	Med	100	18512	100A23	12	120	C-6	5.93	4.43	1000	1750				5a		Inside Frost
100/200/300 Watts																	
PS25	Mog	100/200/300	41459	100/300 6PK	120	30	CC-6	6.68	4.43	1200	1320/3300/4620				2b, 9c, 9j		Soft-White, 3-Way
110 Watts																	
R30	Med	110	46859	110R30/FL/RS/1	120	30	C-17	5.38		2000	1080				2a		Reflector Flood. I.F. Rough Service
116 Watts																	
A21	Med	116	19010	116A21/TS	130	120	C-9	4.37	2.43	8000	1280						Clear-Traffic Signal, BDTH
120 Watts																	
BR40	Med	120	21000	120R40/PL-1 6PK	120		CC-6	6.56		2000					2a, 2b, 5e, 9k		Reflector Plant Light, BB
		120	46877	120R/40/FL/CVG	130	30	CC-6	6.56		1700	1550		1200		2a, 2b		Reflector-covRguard®
		120	47725	120R40FL/STG PQ6	130	30	CC-6	6.56		1700	1550		1200		2a, 2b		Reflector-covRguard®
135 Watts																	
A21	Med	135/120	12627	150A/135WM	130/120	60	CC-8	5.37	4.06	2500/6800	2340/1790					⊸	Watt-Miser®-Diffuse Coating (Ratings @ 120 volts)
150 Watts																	
A21	Med	150	16068	150A/CL 12PK	120	12	CC-8	5.37	4.06	750	2850						Clear
		150	10429	150A/W 12PK	120	12	CC-8	5.37	4.06	750	2780						Soft-White
		150	16703	150A/RVL	120	30	CC-8	5.37	4.06	750	1950						Reveal®
		150/133	72532	150A21/RS-PK6	130/120	30	C-17	5.37	4.06	1000/2600	2065/1580				2a, 5e		Rough Service
PS25	Med	150/133	72547	150PS25/RS/STG	130/120	60	C-17	6.93	5.18	1000/2600	2160/1650						Rough Service Saf-T-Guard®
175 Watts																	
PAR38	Med Skirt	175	13643	175PAR38/HEAT	120	12	CC-6	5.31	4.31	5000	3100				1a, 2a, 2b, 3b		Infrared-Clear
200 Watts																	
A21	Med	200	16069	200A/CL-1 12PK	120	12	CC-8	5.37	4.06	750	3980						Crystal
		200	11585	200A/W-1 12PK	120	12	CC-8	5.37	4.06	750	3910						Soft-White
		200	44534	200A/W-PK6	120.1		CC-8	5.37	4.06	750	3910						Soft-White
		200	89371	200A/RVL-TP1/6	120	30	CC-8	5.37	4.06	750	2800						Reveal® Soft-White

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Incandescent Lamps

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Incandescent Lamps (continued)																	
200 Watts (continued)																	
A21	Med	200/177	25936	200A21/99/IF	130/120	60	CC-8	5.37	4.06	2500/6800	3250/2500						I.F.-Extended Service (Ratings @ 120 volts)
PS30	Med	200/177	72548	200PS30RS/23/STG	130/120	60	C-9	8.06	6.00	1000/2600	3240/2495				2a, 5e		Saf-T-Guard®
250 Watts																	
R40	Med	250	37770	250R40/1 6PK	120	30	C-9	6.56		5000	2200				2a, 2b, 3b, 5e, 6a		Reflector-Warm Up Infrared Heat Lamp-Clear Face
		250	37771	250R40/10 6PK	120	30	C-9	6.56		5000					2a, 2b, 3b, 5e, 6a		Reflector-Chill Chaser Infrared Heat Lamp. Red, HRG
		250	46881	250R40/1/CVG	120	30	C-9	6.56		5000	2150				2a, 2b, 3b, 5e, 6a		Clear-covRguard®, Food Warming, Reflector-Infrared
R40	Med Skirt	250	20724	250R40/4	120	24	C-9	7.43		5000					2a, 2b, 3b, 5e, 6a		Reflector Infrared Industrial-Light I.F., BB
R40	Med	250	47724	250R40/1/STG PQ6	120	30	C-9	6.56		5000	2150				2a, 2b, 3a, 3b, 6a		Heat Lamp Saf-T-Gard® – Shatter-Resistant
		250	23423	21A/R40/FL	12	24	C-2V	6.68		1000					2b, 5a, 5e		Reflector Flood
300 Watts																	
PS25	Med	300/266	20863	300M	130/120	60	CC-8	6.93	5.18	750 /1950	6120/4170						Clear
		300/266	20917	300M/IF	130/120	60	CC-8	6.93	5.18	750 /1950	6120/4170						Inside Frost
PS35	Mog Screw	300	21025	300	130	24	C-9	9.37	7.00	1000	5820						Clear
		300	21079	300/IF	130	24	C-9	9.37	7.00	1000	5820						Inside Frost
R40	Med	300	21197	300R/SP	120	24	CC-2V	6.56		2000	3700		9000		2a, 2b, 5b, 9e		Reflector-Light I.F. HORIZ
		300	21213	300R/FL	120	24	CC-2V	6.56		2000	3700		2500		2a, 2b, 5b, 9e		Reflector-Flood I.F. HORIZ
		300	21229	300R/FL/1	120	24	CC-2V	6.75		2000	3700		1900		2a, 2b, 5b, 9e		Reflector-Flood-I.F. BB, HRG
		300/266	21215	300R/FL	130/120	24	CC-2V	6.56		2000/5400	3465/2670		2500		2a, 2b, 5b, 9e		Reflector Flood-I.F. HORIZ (Ratings @ 120 volts)
R40	Mog Screw	300	21254	300R/3FL	120	24	CC-2V	7.25		2000	3750				2a, 2b, 5b, 9e		Reflector Flood-I.F.1BB
375 Watts																	
R40	Med Skirt	375	21331	375R40	115	24	C-9	7.37		5000h					2a, 2b, 3b, 5e, 6a		Reflector Infrared Industrial-Light I.F., BB
		375	21334	375R40/1	115	24	C-9	7.50		5000					2a, 2b, 3b, 5e, 6a		Reflector Infrared Industrial-Clear Face, HRG, BB
400 Watts																	
G30	Med	400	21363	400G/FL	120	60	C-5	5.12	3.00	800	6800				2a, 2b, 3b, 5e, 6a		Clear Flood, BDTH, BB
R40	Med	400	17542	400R40/FL	120	24	CC-2V	6.75		2000	5000				5b, 5c, 9b		Reflector Flood. Swimming Pool, BB, HRG
500 Watts																	
PS35	Mog Screw	500	21532	500	130	24	CC-8	9.37	7.00	1000	10850				5d, 5e		Clear, BB
R40	Mog Screw	500	21734	500R/3FL	120	24	CC-2V	7.25		2000	6500				2a, 2b, 5b, 9e		Reflector Flood-I.F. BB, HRG
		500	21736	500R/3FL	130	24	CC-2V	7.25		2000	6500				2a, 2b, 5b, 9e		Reflector Flood-I.F., BB, HRG
R40	Med	500	48316	500R40/5FL/SLV	120	24	CC-2V	6.75		2000					9k		Reflector-Swimming Pool. BB, HRG
1000 Watts																	
PS52	Mog Screw	1000	22260	1000	130	12	CC-8	13	9.50	1000	23740				5d, 5e		Clear, BB
		1000	22348	1000/SBIF	120	12	C-7A	13	3.13	1000	20400						Inside Frost, BB
Export Only																	
75 Watts																	
PAR38	Med Skirt	75	14510	75PAR/FL/EX-120	120	12	CC-6	5.31		2000	765	2700	1750	33	1a, 2a, 2b		Frost
85 Watts																	
PAR38	Med Skirt	85	14509	100PAR/FL85WM/EX	120	6	CC-6	5.31		2000	930	2700	2000	37	1a, 2a, 2b	✒	Watt-Miser®, Flood

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Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Export Only (continued)																	
120 Watts																	
PAR38	Med Skirt	120	14501	150PAR/FL/120WM/	120	12	CC-6	5.31		2000	1370	2725	3600	30	1a, 2a, 2b	✒	Watt-Miser®, Flood
		120	14502	150PAR/SP/120WM/	120	12	CC-6	5.31		2000	1370	2725	9200	18	1a, 2a, 2b	✒	Watt-Miser®, Reflector
150 Watts																	
PAR38	Med Skirt	150	14531	150PAR/FL/EX-120	120	12	CC-6	5.31		2000	1740	2775	3100	36	1a, 2a, 2b		Flood
		150	14535	150PAR/SP/EX-120	120	12	CC-6	5.31		2000	1740	2775	12000	16	1a, 2a, 2b		Reflector
Lumen Rated Traffic Signal																	
165 Watts																	
P25	Med	165	20097	1950L/P25/TS	130	60	C-9	4.75	3.00	8000	1950						Clear-Traffic Signal (BDTH), BB
Airport																	
30 Watts																	
T10	Med PF	30	23294	6.6A/T10/1P		60	C-2V	3.93	1.50	1000	400						Clear
40 Watts																	
T10	Med PF	40	15921	40T10P	120	60	CC-2V	3.93	1.50	1000	400						Clear
200 Watts																	
T14	Med PF	200	23298	6.6A/T14P		24	C-13	5.75	2.18		4900						Clear
620 Watts																	
PS40	Mogul PF	620	21950	620PS40P	120	24	C-9	10.06	5.68	3000	11200						Clear
		620	21952	620PS40P	130	24	C-9	10.06	5.68	3000	11200						Clear
1200 Watts																	
T20	Mog Bi-Post	1200	22524	1200T20	115	12	CC-8	9.50	4.00	750	29600						Clear-Beacon, HRG
Multiple Street Lighting																	
30 Watts																	
PS25	Med	189	19939	189PS25/64	130	60	C-9	6.93	5.25	3000							Clear, BB
		205	42663	205PS25/12	125	60	C-9	6.93	5.25	12000							Clear, BB
PS35	Mog Screw	327	21307	327PS35	125	24	C-9	9.37	7.00	6000							Clear, BB
Landscape Lighting																	
4 Watts																	
T5	Wedge	4	71479	901/LAND/BP2	12	48	C-2R	1.49	0.08	500	36						
7 Watts																	
T5	Wedge	7	71480	918/LAND/BP2	12	48	C-2R	1.49	0.08	500	82						
11 Watts																	
T5	Wedge	11	71481	923/LAND/BP2	12	48	C-2R	1.49	0.08	500	157						
18 Watts																	
T5	Wedge	18	71482	921/LAND/BP2	12	48	C-2R	1.49	0.08	500	264						
		18	71483	921/XE/LAND/BP2	12	48	C-2R	1.49	0.08	1400	297						
Decorative																	
3 Watts																	
CA10	Cand	3	73254	3CAC/FF/CD1-6PK	120	6		4.13			2000						Flicker Flame
		3	73255	3CAM/FF/CD1-6PK	120	6		4.13			2000						Flicker Flame
15 Watts																	
B8	Cand	15	73262	15BC/CF/CD2-TR6	120	6	C-7A	3.87		1500							Blunt Tip, Ceiling Fan, Vibration Resistant
		15	74033	15BC/RVL/CF-T4/6	120	6	C7-A	3.87		1500							Reveal®, Blunt Tip, Ceiling Fan, Vibration Resistant
		15	48400	15BC CD2 6PK	120	30	C-7A	3.87		1500							Clear-Blunt Tip
CA8	Cand	15	48396	15CAC CD2 6PK	120	30	C-7A	4.12		1500							Bent Tip
F10	Cand	15	48395	15FC CD2 6PK	120	30	C-7A	4.37		1500							Clear-Chandelier
		15	73283	15FC/AU/CD2-PK6	120	6	C-7A	4.37		1500							Auradescent
25 Watts																	
B8	Cand	25	73263	25BC/CF/CD2-TR6	120	6	C-7A	3.87		1500							Blunt Tip, Ceiling Fan, Vibration Resistant
			74034	25BC/RVL/CF-T4/6	120	6	C-7A	3.87		1500							Reveal®, Blunt Tip, Ceiling Fan, Vibration Resistant

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Incandescent Lamps

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Decorative (continued)																	
25 Watts (continued)																	
B10	Cand	25	15787	25BC 25PK	120	200	C-7A	3.75		1500							Clear, Blunt Tip
		25	45083	25BC CD4	120	30	C-7A	3.75		1500							Clear, Blunt Tip
		25	74034	25BC/RVL/CF-T4/6	120	6	C-7A	3.75		1500							Reveal® Clear Blunt Tip, Ceiling Fan, Vibration Resistant
B13	Med	25	41863	25BM/CD4	120	6	C-9	4.62		1500							Clear Ceiling Fan, Chandelier
CA10	Cand	25	15777	25CAC 25PK	120	200	CC-2V	4.12		1500							Clear, Bent Tip
		25	16046	25CAC/F CD4	120	30	CC-2V	4.12		1500							Clear, Bent Tip
		25	40045	25CAC/L	120	120	CC-2V	4.12		4000							Clear, Bent Tip, Brass Base, LL
CA10	Cand	25	16365	25CAC/L/BB-CD4	120	24	CC-2V	4.12		4000							Clear, Bent Tip
		25	16045	25CAC CARD4	120	30	CC-2V	4.12		1500							Clear, Bent Tip
CA9	Med	25	72773	25CAM/CL/CD6-5PK	120	6	CC-2V	4.56		1500							Clear, Bent Tip
F15	Med	25	72810	25FM/C/CF/CD2-4P	120	4	C-9	4.37		1500							Clear, Flame Ceiling Fan
		25	72805	25FM/A/CF/CD2-4PK	120	4	C-9	4.37		1500							Ceiling Fan
		25	72806	25FM/AU/CF/CD2-4PK	120	4	C-9	4.37		1500							Auradescent Ceiling Fan
		25	72804	25FM/W/CF/CD2-4PK	120	4	C-9	4.37		1500							White, Ceiling Fan
G16.5	Cand	25	11303	25GC 12PK	120	120	CC-2V	3.00		1500					5e, 9d		Clear, Globe
		25	72800	25GC/CL/CD2-4PK	120	4	CC-2V	3.00		1500					5e, 9d		Clear, Globe
		25	72801	25GC/AU/CD2 4PK	120	4	CC-2V	3.00		1500					5e, 9d		Clear, Globe
G16.5	Cand	25	44412	25GC/W PQ2/6	120	30	CC-2V	3.00		1500					5e, 9d		White, Globe
		25	39679	25GC/W 12PK	120	120	CC-2V	3.00		1500					5e, 9d		White, Globe
		25	71716	25GC/RVL/CD2-4PK	120	4	CC-2V	3.00		1500					5e, 9d		Reveal® Globe
G16.5	Med	25	31106	25GM/CL-PQ2/6	120	30	CC-2V	3.00		1500					5e, 9d		Clear-Globe, Medium Base
G16.5	Med	25	31107	25GM/W-PQ2/6	120	30	CC-2V	3.00		1500					5e, 9d		White-Globe, Medium Base
G25	Med	25	12982	25G25/W 6PK	120	6	CC-6	4.50		1500							White-Globe
		25	12983	25G25 6PK	120	6	CC-6	4.50		1500							Clear-Globe
40 Watts																	
B8	Cand	40	73264	40BC/CF/CD2-TR6	120	6	C-7A	3.87		1500							Clear, Blunt Tip, Ceiling Fan
		40	74035	40BC/RVL/CF-T4/6	120	6	C-7A	3.87		1500							Reveal®, Clear, Blunt Tip, Ceiling Fan
B10	Cand	40	15788	40BC 25PK	120	200	CC-2V	3.75		1500							Clear, Blunt Tip
		40	19981	40BC CARD4	120	30	CC-2V	3.75		1500							Clear, Blunt Tip
		40	48701	40BC/RVL CD2	120	30	CC-2V	3.75		1500							Reveal® Clear, Blunt Tip
		40	74035	40BC/RVL/CF/T46	120	6	C-7A	3.75		1500							Reveal® Clear, Ceiling Fan
B13	Med	40	27310	40BM/CD4	120	6	C-9	4.62		1500							Clear-Blunt Tip
		40	72807	40BFM/CD2-4PK	120	4	C-9	4.62		1500							
		40	72780	40BM/RVL/CD2-4PK	120	4	C-9	4.62		1500							Clear, Bent Tip
CA9	Med	40	16049	40CAM CARD4	120	30	CC-2V	4.56		1500							Clear, Bent Tip
		40	48342	40CAM/L/BB CD4	120	30		4.56		4000							Post Light
CA10	Cand	40	15778	40CAC 25PK	120	200	CC-2V	4.12		1500							Clear, Bent Tip
		40	16047	40CAC CARD4	120	30	CC-2V	4.12		1500							Clear, Bent Tip
		40	48341	40CAC/L/BB-CD4	120	30	CC-2V	4.12		3000							Clear, Bent Tip, Brass Base, Long Life
		40	16048	40CAC/F CARD4	120	30	CC-2V	4.12		1500							Frost, Bent Tip
F15	Med	40	72811	40FM/C/CF/CD2-4PK	120	4	C-6	4.37		1500							Clear, Flame, Ceiling Fan, Vibration Resistant
		40	72809	40FM/AU/CF/CD2 4PK	120	4	C-6	4.37		1500							Auradescent, Flame, Ceiling Fan, Vibration Resistant
		40	72808	40FM/W/CF/CD2-4PK	120	4	C-6	4.37		1500							White, Flame, Ceiling Fan, Vibration Resistant

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Beam Spread	Warning and Caution Notices	Reduced Wattage	Additional Information
Decorative (continued)																	
40 Watts (continued)																	
G16.5	Cand	40	14958	40GC 12PK	120	120	CC-2V	3.00		1500					5e, 9d		Clear, Globe, BDTH
		40	72802	40GC/CL/CD2-4PK	120	4	CC-2V	3.00		1500					5e, 9d		Clear, Globe, BDTH
		40	72803	40GC/AU/CD2-4PK	120	4	CC-2V	3.00		1500					5e, 9d		Auradescent, Globe, BDTH
		40	72776	40GC/RVL/CD2-4PK	120	4	CC-2V	3.00		1500					5e, 9d		Reveal®
		40	72209	40GC/W/CD2-4PK	120	4	CC-2V	3.00		1500					5e, 9d		White-Globe, BDTH
		40	48705	40GC/W/RVL CD2	120	30	CC-2V	3.00		1500					5e, 9d		Reveal® White-Globe, BDTH
G16.5	Med	40	31109	40GM/CL-PQ2/6	120	30	CC-2V	3.00		1500					5e, 9d		Clear, Globe, Medium Base, BDTH
		40	31110	40GM/W-PQ2/6	120	30	CC-2V	3.00		1500					5e, 9d		White, Globe, Medium Base, BDTH
60 Watts																	
G25	Med	40	12979	40G25/W 6PK	120	6	CC-6	4.50		1500							White, Globe
		40	12980	40G25 6PK	120	6	CC-6	4.50		1500							Clear, Globe
		40	48694	40G25C/RVL PQ1/6	120	6	CC-6	4.50		1500							Reveal®
		40	48695	40G25W/RVL PQ1/6	120	6	CC-6	4.50		1500							Reveal®
G40	Med	40	36191	40G40/W 6PK	120	6	CC-6	6.93		2500							White, Globe
B10	Cand	60	27298	60BC/CD4	120	30	CC-2V	3.75		1500							Clear, Blunt Tip
		60	74036	60BC/RVL/CF-T4/6	130	6	C-7A	3.75		1500							Reveal® Clear, Ceiling Fan, Blunt Tip
B13	Med	60	27497	60BM/CD4	120	6	C-9	4.62		1500							Clear, Blunt Tip
		60	72781	60BM/RVL/CD2-4PK	120	4	C-9	4.62		1500							Reveal®, Blunt Tip
CA10	Med	60	21009	60CAM CARD4	120	30	CC-2V	4.56		1500							Clear, Bent Tip, BDTH
CA10	Cand	60	15781	60CAC 25PK	120	200	CC-2V	4.12		1500							Clear, Bent Tip
		60	16050	60CAC CARD 4	120	30	CC-2V	4.12		1500							Clear, Bent Tip
		60	16051	60CAC/F CARD4	120	30	CC-2V	4.12		1500							Frost, Bent Tip
G16.5	Cand	60	72777	60GC/CD2-4PK	120	4	CC-2V	3.00		1500					5e, 9d		Clear, Globe
G16.5	Cand	60	44723	60GC/W PQ2/6	120	30	CC-2V	3.00		1500					5e, 9d		White, Globe
G16.5	Med	60	31114	60GM/CL-PQ2/6	120	30	CC-2V	3.00		1500					5e, 9d		Clear, Globe, Medium Base, BDTH
		60	31115	60GM/W-PQ2/6	120	30	CC-2V	3.00		1500					5e, 9d		White, Globe, Medium Base, BDTH
G25	Med	60	42360	60G25C/RVL PQ1/6	120	6	CC-6	4.50		1500							Reveal®, Clear-Globe
		60	42361	60G25W/RVL PQ1/6	120	6	CC-6	4.50		1500							Reveal®, White – Globe
		60	14846	60G25 6PK	120	6	CC-6	4.50		1500							Clear, Globe
		60	14848	60G25/W 6PK	120	6	CC-6	4.50		1500							White – Globe
G30	Med	60	14850	60G30/W 6PK	120	24	CC-9	5.00		2500							White – Globe. Retail Pack
G40	Med	60	14187	60G40 6PK	120	6	CC-6	6.93		2500							Clear – Globe
		60	49780	60G40/W 6PK	120	6	CC-6	6.93		2500							White – Globe
75 Watts																	
E17	Med	75	73289	75E17/TF-4PK	120	4	CC-6	5.00		4000							
G40	Med	75	36193	75G40/W 6PK	120	6	CC-6	6.93		2500							White – Globe
100 Watts																	
F20	Med	100	44540	100F20/TF PQ1/6	120	30	CC-9	5.00		3000							Post Light, Teflon® Coated, Saf-T-Gard® BB
G40	Med	100	16742	100G40/W CPK	120	24	CC-6	6.93		2500							White – Globe
		100	49781	100G40/W 6PK	120	6	CC-6	6.93		2500							White – Globe
150 Watts																	
G40	Med	150	16585	150G40/W	120	24	CC-6	6.93		2500							White – Globe
Portable Lighting Products																	
R30	Med	65	44848	PLK 1 UNIT	120	4	CC-6	5.37		2000					2a, 5e, 9k		Plant Light Kit includes one 75R30/PL Plant Light lamp, UL listed holder and information booklet.

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All warning and caution notices found at the end of this section (page 1-18).

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All warning and caution notices found at the end of this section (page 1-18).

Warning and Caution Notices

1

⚠ WARNING

Risk of electric shock

a. Turn off power before inspection, installation or removal

2

⚠ WARNING

Risk of fire

a. Keep combustible materials away from lamp
b. Use in fixture rated for this product
c. Use in fixture rated for this product – see instructions
d. Operate base down to horizontal only
e. Keep away from bed coverings, drapes and other combustible materials
f. Do not use in enclosed fixture or with lamp shade
g. Use in a high intensity fixture rated for this product
h. Do not use as a night light
i. Burning position base down only

3

⚠ WARNING

Lamp emits IR radiation which may cause eye injury

a. Use in fixture approved for this product
b. Do not use on infant, disabled, sleeping, or unconscious person/ animal unable to avoid potential injury

4

⚠ WARNING

Pressurized lamp – unexpected rupture may cause injury, fire, or property damage

a. Use eye protection when handling lamp
b. Avoid direct water/liquid contact
c. Use in enclosed fixture rated for this product
d. Operate lamp only in specified position

5

⚠ WARNING

Unexpected lamp rupture may cause injury, fire, or property damage

a. Do not exceed rated voltage
b. Avoid direct water/liquid contact
c. Use in enclosed fixture rated for this product
d. Do not use lamp if outer glass is scratched or broken
e. Avoid direct water, liquid, or metal contact

6

⚠ WARNING

Risk of burn

a. Do not touch operating lamp

7

⚠ CAUTION

Risk of burn

a. Allow lamp to cool before handling
b. Allow lamp/fixture to cool before handling
c. Do not touch operating lamp

8

⚠ CAUTION

Lamp may shatter and cause injury if broken

a. Do not use excessive force when installing lamp

9

Operating Instructions

a. Burning position – base up
b. Burning position – horizontal
c. Burn base down only
d. Burn base down to horizontal
e. For best performance burn lamp within 45 degrees of vertical base up
f. For best performance burn within 45 degree of base down to horizontal
g. For best performance operate base up within 30° of vertical
h. For best performance burn base down
i. Do not burn in base up position
j. To produce all three levels of light, this lamp should be tightened firmly, but not forcibly, in the socket to assure that all contacts are connected
k. Should not be used in equipment where the base lamp will exceed 550°F (260°C)
l. Will operate in any burning position, but fixed-socket usage other than base up, or continuous burning in any position in ambient temperatures above 150°F (66°C), may result in some loss of protective coating
m. Reflectors and accessories may raise bulb temperature
n. For use with heat-resistant connector supported by bulb rim or metal shell of base
o. For best performance replace lamp if it blisters or darkens

Cross-Reference

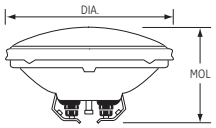
GE Description	Osram/Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps	
Incandescent Lamps		
3S6/5 130V	3S6/5 130V	3S6/5 120-130V
4C7	4C7/BL/2PK	BC-4C7
4C7/W	4C7/W/2PK 120V	BC4C7/W
10S11N	10S11N/CL	10S11N
10S11N/F	10S11/IF	10S11N/IF
15S14/GR/CL 130V	15S14/CL 130V	–
40S11N/1/F	40S11/N/CF 120V	40S11N/F 120V
40R14/N/CD	40R14/N/RP	40R14/N
40T6 1/2	40T6.5/CL	40T6-1/2 120V
40T8	40T8	40T8
40T10	40T10	40T10
60T10F/CD	60T10/CF	60T10/641F
38A 130V	38A/CVP 130V	38A 120V
38A/CL 130V	not available in 130V	38A/CL 130V
40A15	40A15	40A15
40A 48PK	40A/CVP 130V	40A 130V
50A19/RS/SH	50A/RS/SL	50A/RS/TF 120V
50/150	50/150A/W	50/150T/SW
57A 130V	57A/CVP 130V	57A 130V
57A/CL 130V	57A/CL 130V	57A/CL 130V
60A15	60A15	60A15
60A 48PK	60A/CVP 130V	60A19/35
60A/RS 130V	60A/RS/2/RP 130V	–
60A/RS/STG	60A/RS/SL/RP 120V	–
60A/PL	60A/GRO	60A/AGRO
65R30FL/LL	–	65BR30/FL/LL
65R30/SP/LL	–	65BR30/SP/LL
71A 130V	71A/CVP 130V	71A 120V
71A/CL 130V	not available in 130V	71A/CL 130V
75A 48PK	75A/CVP 130V	75A
75A/RS/130	75A/RS/2/RP 130V	–
75A/RS/STG	75A21/RS/SL/RP 130V	75A/RH/TG 120-130V
95A 130V	95A/CVP 130V	95A 120V
95A/CL 130V	not available in 130V	95A/CL 130V
100A 48PK	100A/CVP 130V	100A 130V
100A/RS 130V	100A/RS/2/RP 130V	–
100A/RS/STG	100A/RS/SL/RP 120V	100A/RS/VS/BR/TG 120-130V
100A23	100A23 12V	100A 12V
150A21/RS	150A23/RS 130V	–
150A21/RS/STG	–	150A/35/RS/BR/TG 120-130V
150PS25/RS/STG	150PS25/RS/SL 120V	–
200PS30/RS/23/STG	200PS/RS/SL 120V	200PS30/RS/TF 120V
250R40/10	250R40/10	250R40/HR
300M	300M/CL	300-120V CLR PS30
300M/IF	300M/IF	300M/PS30IF 130V
15BC	15B10C/T	15BA9C
15FC	15FC	15F10C
25BC	25B10C/T	25B10-1/2C
25BM	25B10	25B13
25CAC	25B10C	25BA9C/CL
25CAC/F	25B10C/W	25BA9C/F
25CAC/L	25B10C/DL	25BA9C/4M
25CAM	–	25BA9-1/2

GE Description	Osram/Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps	
Incandescent Lamps (continued)		
25FM/CF	–	–
25GC	25G16.5C	25G16-1/2C
25GM	25G16.5	25G16-1/2
25G25	25G25	25G25
40BC	40B10C/T	40B10-1/2C
40BM	40B10	40B13
40CAC	40B10C	40BA9C/CL
40CAC/F	40B10C/F	40BA9C/F
40CAC/L	–	40BA9C/4M
40CAM	–	40BA9-1/2
40CAM/L	–	40BA9-1/2/LL
40FM/CF	–	–
40GC	40G16.5C	40G16-1/2C
40GM	40G16.5	40G16-1/2
40G25	40G25	40G25
60BC	60B10C/T	60B10-1/2C
60BM	60B10	60B13
60CAC	60B10C	60BA9C/CL
60CAC/F	60B10C/F	60BA9C/F
60CAM	–	60BA9-1/2
60FM/CF	–	–
60GC	60G16.5C	60G16-1/2C
60GM	60G16.5	60G16-1/2
60G25	60G25	60G25

Halogen Lamps

Halogen Lamps

Bulb Identification



DIA. in.: Diameter of bulb at widest point.

MOL in.: Maximum Overall Length including base or pins.

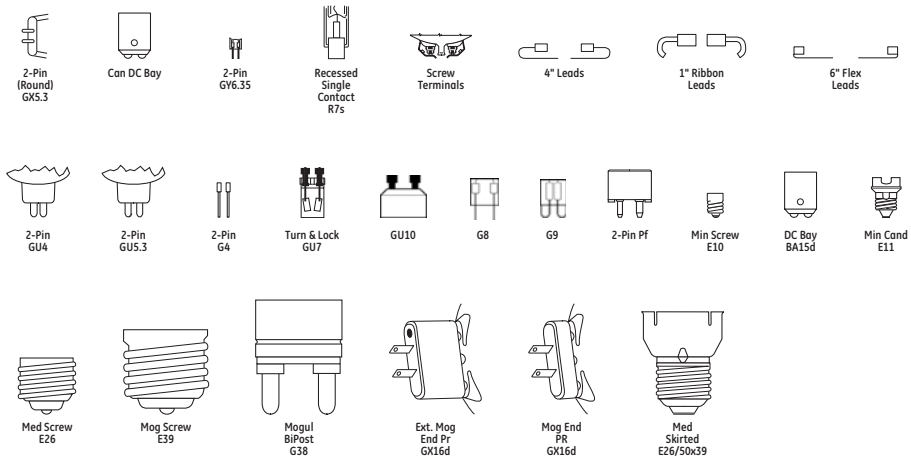
LCL in.: Distance between the center of the filament and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

Filament Identification

Base Identification



Introduction

Halogen lamps provide a small, white light source with excellent color rendering. Unlike standard incandescent lamps, halogen lamps use a halogen gas which allows the bulbs to burn longer without sacrificing light output.

Compared to incandescent lamps, halogen lamps provide:

- Crisp, white light
- Excellent beam control
- Compact size
- High lumen maintenance
- Long life

Product Information

Par38 vs. Standard Halogen

HIR™ Silv-IR (pg 2-5)
- Up to 25% more efficient
- Up to 50% longer life – 4000 hours

HIR™ Plus (PAR38) (pg 2-5)
- Up to 36% in energy savings
- Up to 50% longer life – 4200 hours

HIR XL® UltraLong Life (PAR38) (pg 2-5)
- Up to 20% energy savings
- Ultra long life – 6000 hours

HIR™ (PAR38) (pg 2-5)
- Up to 28% more efficient
- Up to 22% energy savings
- Up to 50% longer life – 4000 hours

Halogen Plus (PAR38) (pg 2-6)
- Longer life than standard halogen – 3000 hours
- Wide variety of wattages and beam spreads

Standard Halogen (PAR38) (pg 2-6)
- Crisp, white light
- Life – 2000 hours

HIR™ XL® (PAR30) (pg 2-6)
- Up to 10% energy savings
- Ultra long life – 6000 hours

Halogen Compact PAR Lamps

Compact HIR™ (PAR30) (pg 2-6)
- Long life – 4000 hours

Compact PAR30 Long Neck (pg 2-6)
- Energy-efficient replacement for R30 lamps
- Ideal for recessed fixtures

Compact PAR Halogen (PAR30/PAR20) (pg 2-7)
- Small size for "low profile" fixture
- Energy-efficient replacement for R20/R30 lamps
- Long life – 3000 hours

MR

Turn & Lock (TAL) ConstantColor® (MR16) (pg 2-10)
- User-friendly base...easy to install and remove
- Over 90% maintained light over life
- Excellent color maintenance
- Suitable for use in open fixtures

ConstantColor® Precise™ Cover Glass (MR16) (pg 2-10)
- Cover glass lens protects bulb from dust and dirt
- Suitable for use in open fixtures

ConstantColor® Precise™ (MR16) (pg 2-10)
- Precise beam control
- Excellent color maintenance
- Over 90% maintained light output over life
- Long life – up to 6000 hours (50-watt)

Precise™ Cover Glass IR (MR16) (pg 2-10)
- Energy-saving MR16
- 5000 hour lamp life

Standard MR (MR16/MR11) (pg 2-11)
- Small size for "low profile" look
- Crisp, white light

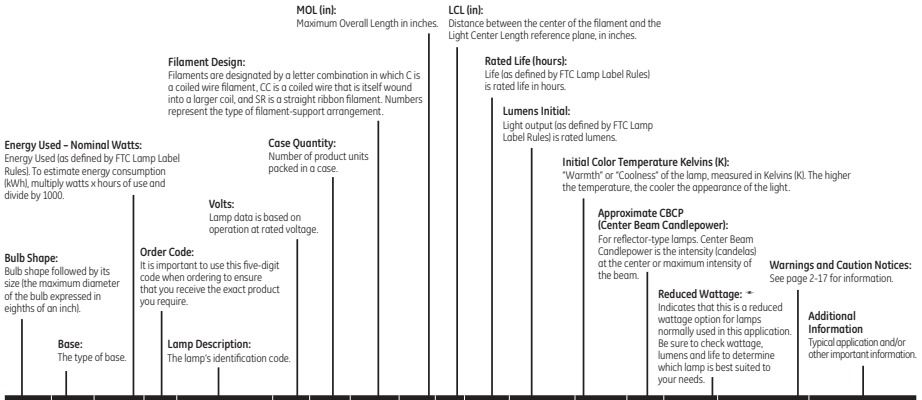
Linear Quartz

Linear Quartzline® HIR™ (pg 2-11)
- 30%-40% energy cost savings vs. standard quartz lamps
- 95% maintained light output over life
- Cooler operation increases fixture life

For the most up-to-date product information, see www.gelighting.com.

Headings in this catalog section

The following terms and descriptions can help you when checking Halogen lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these groups, lamps are listed alphabetically by bulb shape.



50 PAR / HIR / SP 10

- 50 — Identifies the lamp's wattage.
- PAR — Identifies the lamp shape and the bulb diameter in eighths of inches.
- HIR — Identifies the lamp type.
- SP — Identifies as Spotlight.
- 10 — Identifies beam angle, code may also include packaging information.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 2-2.
4. Find your lamp in the table containing the bulb shape, size and base, which are all listed by wattage.

Halogen Brand Name Cross-reference

GE	Osram/Sylvania	Philips
HIR™ Silv-IR	—	Energy Advantage, IRC
HIR™ PLUS	—	Long Life IRC
HIR/XL™ PAR	—	—
HIR™ PAR	Capsylite® PAR IR™	Masterline™ IRC
Halogen Plus PAR	Capsylite® PAR	Masterline™ 2500
Standard Halogen PAR	Capsylite® PAR	Masterline™ 2000
Compact PAR	Capsylite® PAR	Masterline™ PAR
Turn & Lock (TAL) ConstantColor®	—	—
ConstantColor® Precise™	Tru-Aim Titan®	Continuum Color®
Precise™ IR	Tru-Aim® IR™	Masterline™ ES IRC
Standard MR16	Tru-Aim®	Continuum®
Halogen A-Line	Capsylite® A-Line (Midbreak)	Halogena®

ATTENTION: This brand-name cross reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, and/or other auxiliary equipment.

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Halogen PAR 38 Lamps																
HIR™ Silv-IR																
PAR38	Med Skirt	50	46168	50PAR/HIR/S/SP10	120	12	CC-8	5.31		4000	800	2750	140000	*	1a,2a,4f,9a,10c	Spotlight – Heavy Duty Filament
		50	46167	50PAR/HIR/S/FL25	120	12	CC-8	5.31		4000	800	2750	3400	*	1a,2a,4f,9a,10c	Spotlight – Heavy Duty Filament
		60	46165	60PAR/HIR/S/SP10	120	12	CC-8	5.31		4000	1050	2800	170000	*	1a,2a,4f,9a,10c	Spotlight – Heavy Duty Filament
		60	46166	60PAR/HIR/S/FL30	120	12	CC-8	5.31		4000	1050	2800	28000	*	1a,2a,4f,9a,10c	Spotlight – Heavy Duty Filament
HIR™ Plus(+)																
PAR38	Med Skirt	45	90512	45PAR/HIR+/SP10	120	12	CC-8	5.31		4200	870	2750	14100	*	1a,2a,4f,9a,10c	Spotlight
		45	90513	45PAR/HIR+/FL25	120	12	CC-8	5.31		4200	870	2750	3500	*	1a,2a,4f,9a,10c	Floodlight
		48	90515	48PAR/HIR+/SP10	120	12	CC-8	5.31		4200	970	2750	155000	*	1a,2a,4f,9a,10c	Spotlight
		48	90519	48PAR/HIR+/FL25	120	12	CC-8	5.31		4200	970	2750	38000	*	1a,2a,4f,9a,10c	Floodlight
		55	71446	55PAR/HIR+/SP10	120	12	CC-8	5.31		4200	1120	2750	175000	*	1a,2a,4f,9a,10c	Spotlight
		55	71598	55PAR/HIR+/FL25	120	12	CC-8	5.31		4200	1120	2750	4100	*	1a,2a,4f,9a,10c	Floodlight
		60	90520	60PAR/HIR+/SP10	120	12	CC-8	5.31		4200	1260	2800	19000	*	1a,2a,4f,9a,10c	Spotlight
		60	90529	60PAR/HIR+/FL25	120	12	CC-8	5.31		4200	1260	2800	47000	*	1a,2a,4f,9a,10c	Floodlight
		67	90601	67PAR/HIR+/SP10	120	12	CC-8	5.31		4200	1500	2750	22000	*	1a,2a,4f,9a,10c	Spotlight
		67	90602	67PAR/HIR+/FL25	120	12	CC-8	5.31		4200	1500	2800	5000	*	1a,2a,4f,9a,10c	Floodlight
		83	90605	83PAR/HIR+/SP10	120	12	CC-8	5.31		4000	2030	2850	30000	*	1a,2a,4f,9a,10c	Spotlight
		83	90606	83PAR/HIR+/FL25	120	12	CC-8	5.31		4200	2030	2850	7000	*	1a,2a,4f,9a,10c	Floodlight
HIR XL® (UltraLong Life)																
PAR38	Med Skirt	45	40793	45PAR/HIR/SP12XL	120	6	CC-8	5.31		6000	600	2680	7000	*	1a,2a,4f,9a,10c	Spotlight, Long Life
		45	40790	45PAR/HIR/FL40XL	120	6	CC-8	5.31		6000	600	2680	1300	*	1a,2a,4f,9a,10c	Floodlight, Long Life
		55	40794	55PAR/HIR/SP12XL	120	6	CC-8	5.31		6000	800	2680	9000	*	1a,2a,4f,9a,10c	Spotlight, Long Life
		55	40792	55PAR/HIR/FL40XL	120	6	CC-8	5.31		6000	800	2680	2000	*	1a,2a,4f,9a,10c	Floodlight, Long Life
		90	40795	90PAR/HIR/SP12XL	120	6	CC-8	5.31		6000	1470	2800	170000	*	1a,2a,4f,9a,10c	Spotlight, Long Life
		90	40791	90PAR/HIR/FL40XL	120	6	CC-8	5.31		6000	1470	2800	28000	*	1a,2a,4f,9a,10c	Floodlight, Long Life
HIR™																
PAR38	Med Skirt	50	40937	50PAR/HIR/SP6	120	12	CC-8	5.31		3000	800	2810	20000	*	1a,2a,4f,9a,10c	Spotlight
		50	12396	50PAR/HIR/SP9	120	12	CC-8	5.31		3000	800	2810	160000	*	1a,2a,4f,9a,10c	Spotlight
		50	12397	50PAR/HIR/FL25	120	12	CC-8	5.31		3000	800	2810	3400	*	1a,2a,4f,9a,10c	Floodlight
		50/46	22850	50PAR/HIR/FL25	130/120	12	CC-8	5.31		3000/6000	800/600	2810	3400	*	1a,2a,4f,9a,10c	Floodlight
		60	18627	60PAR/HIR/SP10	120	12	CC-8	5.31		3000	1050	2850	170000	*	1a,2a,4f,9a,10c	Spotlight
		60/54	18629	60PAR/HIR/SP10	130/120	12	CC-8	5.31		3000/6000	1050/800	2850	170000	*	1a,2a,4f,9a,10c	Spotlight
		60	11878	60PARHIR/FL30-6PK	120	6	CC-8	5.31		3000	1050	2850	28000	*	1a,2a,4f,9a,10c	Spotlight
		60	18626	60PAR/HIR/FL30	120	12	CC-8	5.31		3000	1050	2850	28000	*	1a,2a,4f,9a,10c	Floodlight
		60/54	18628	60PAR/HIR/FL30	130/120	12	CC-8	5.31		3000/6000	1050/800	2850	28000	*	1a,2a,4f,9a,10c	Floodlight
		60	10467	60PAR/HIR/FL40	120	12	CC-8	5.31		3000	1050	2850	17000	*	1a,2a,4f,9a,10c	Floodlight
		60	20947	60PAR/HIR/WFL	120	12	CC-8	5.31		3000	1050	2850	1100	*	1a,2a,4f,9a,10c	Wide Floodlight
		60/54	20948	60PAR/HIR/WFL	130/120	12	CC-8	5.31		3000/6000	1050/800	2850	1100	*	1a,2a,4f,9a,10c	Wide Floodlight
		70	46367	70PAR/HIR/SP10	120	12	CC-8	5.31		3000	1260	2900	19000	*	1a,2a,4f,9a,10c	Spotlight
		70/64	46369	70PAR/HIR/SP10	130/120	12	CC-8	5.31		3000/6000	1260/950	2900	19000	*	1a,2a,4f,9a,10c	Spotlight
		70	46368	70PAR/HIR/FL25	120	12	CC-8	5.31		3000	1260	2900	47000	*	1a,2a,4f,9a,10c	Floodlight
		70/64	46370	70PAR/HIR/FL25	130/120	12	CC-8	5.31		3000/6000	1260/950	2900	47000	*	1a,2a,4f,9a,10c	Floodlight
		70	16239	70PAR/HIR/FL/25-60	120	6	CC-8	5.31		3000	1260	2900	47000		1a,2a,4f,9a,10c	Floodlight
		80	27216	80PAR/HIR/SP10	120	12	CC-8	5.31		3000	1500	2900	22000	*	1a,2a,4f,9a,10c	Spotlight
		80	27217	80PAR/HIR/SP12	120	12	CC-8	5.31		3000	1500	2900	175000	*	1a,2a,4f,9a,10c	Spotlight
		80	27218	80PAR/HIR/FL25	120	12	CC-8	5.31		3000	1500	2900	5000	*	1a,2a,4f,9a,10c	Floodlight
		100	18635	100PAR/HIR/SP10	120	12	CC-8	5.31		3000	2030	2900	30000	*	1a,2a,4f,9a,10c	Spotlight
		100	11885	100PAR/HIR/SP10K	120	6	CC-8	5.31		3000	2030	2900	30000	*	1a,2a,4f,9a,10c	Spotlight
		100/88	18636	100PAR/HIR/SP10	130/120	12	CC-8	5.31		3000/6000	2030/1470	2900	30000	*	1a,2a,4f,9a,10c	Spotlight
		100	11883	100PAR/HIR/FL25-6P	120	6	CC-8	5.31		3000	2030	2900	7000	*	1a,2a,4f,9a,10c	Floodlight
		100	18631	100PAR/HIR/FL25	120	12	CC-8	5.31		3000	2030	2900	7000	*	1a,2a,4f,9a,10c	Floodlight
		100/88	18633	100PAR/HIR/FL25	130/120	12	CC-8	5.31		3000/6000	2030/1470	2900	7000	*	1a,2a,4f,9a,10c	Floodlight
		100	10473	100PAR/HIR/FL40	120	12	CC-8	5.31		3000	2030	2900	3400	*	1a,2a,4f,9a,10c	Floodlight
Long Life PAR38																
PAR38	Med Skirt	45	20757	45PAR/SP10XL-OD	120	6	CC-8	5.31		6000	520.00	2700	8000		1a,2a,4f,9a,10c	Spotlight, Long Life
		45	20758	45PAR/FL25XL-OD	120	6	CC-8	5.31		6000	520.00	2700	2000		1a,2a,4f,9a,10c	Floodlight, Long Life
		90	20759	90PAR/SP10XL-OD	120	6	CC-8	5.31		6000	1310	2800	20000		1a,2a,4f,9a,10c	Spotlight, Long Life
		90	20763	90PAR/FL25XL-OD	120	6	CC-8	5.31		6000	1310	2800	47000		1a,2a,4f,9a,10c	Floodlight, Long Life

Halogen Lamps

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Halogen PAR 38 Lamps (continued)																
Halogen Plus																
PAR38	Med Skirt	45	17470	45PAR/H/SP10	120	6	CC-8	5.31		2500	540	2750	8000	⁃	1a,2a,4f,9a,10c	Spotlight
		45/40	16229	45PAR/H/SP10	130/120	12	CC-8	5.31		2500/5000	540/410	2750	8000	⁃	1a,2a,4f,9a,10c	Spotlight
		45	17471	45PAR/H/FL25 6PK	120	6	CC-8	5.31		2500	540	2750	2000	⁃	1a,2a,4f,9a,10c	Floodlight
		45/40	16231	45PAR/H/FL25	130/120	12	CC-8	5.31		2500/5000	540/410	2750	2000	⁃	1a,2a,4f,9a,10c	Floodlight
		60	25266	60PAR/H/SP10	120	12	CC-8	5.31		3000	800	2800	13000		1a,2a,4f,9a,10c	Spotlight
		60	25269	60PAR/H/FL25	120	12	CC-8	5.31		3000	800	2800	3200		1a,2a,4f,9a,10c	Floodlight
		60/54	25271	60PAR/H/FL25	130/120	12	CC-8	5.31		3000/6000	800/608	2800	3200		1a,2a,4f,9a,10c	Floodlight
		75	14751	75PAR/H/SP9-6PK	120	6	CC-8	5.31		2500	1050	2850	18000		1a,2a,4f,9a,10c	Spotlight
		75	14748	75PAR/H/FL25-6PK	120	6	CC-8	5.31		2500	1050	2850	4000		1a,2a,4f,9a,10c	Floodlight
		75	81864	75PAR38HFL25/RVL	120	6	CC-8	5.31		2500	950		3200		1a,2a,4f,9a,10c	Reveal®, Floodlight
		75/66	21389	75PAR/H/FL25	130/120	12	CC-8	5.31		2500/5000	1050/800	2850	4000		1a,2a,4f,9a,10c	Floodlight
		90	17450	90PAR/H/SP10-6PK	120	6	CC-8	5.31		2500	1310	2900	20000		1a,2a,4f,9a,10c	Spotlight
		90/79	13311	90PAR/H/SP10	130/120	12	CC-8	5.31		2500/5000	1310/1000	2900	20000		1a,2a,4f,9a,10c	Spotlight
		90	17451	90PAR/H/FL25-6PK	120	6	CC-8	5.31		2500	1310	2900	47000		1a,2a,4f,9a,10c	Floodlight
		90/79	13308	90PAR/H/FL25	130/120	12	CC-8	5.31		2500/5000	1310/1000	2900	47000		1a,2a,4f,9a,10c	Floodlight
		90	22742	90PAR/H/FL-TWIN	120	3	CC-8	5.31		2500	1310	2900	47000		1a,2a,4f,9a,10c	Floodlight
		90	25727	90PAR/H/WFL-120V	120	12	CC-8	5.31		2500	1310	2900	2475		1a,2a,4f,9a,10c	Wide Floodlight
		120	41632	120PAR/H/SP9	120	6	CC-8	5.31		2500	1900	2950	18000		1a,2a,4f,9a,10c	Narrow Spot
		120	41631	120PAR/H/FL30	120	6	CC-8	5.31		2500	1900	2950	4000		1a,2a,4f,9a,10c	Floodlight
Standard Halogen																
PAR38	Med Skirt	50	17980	50PAR/H/SP10-6PK	120	6	CC-8	5.31		2000	600	2750	9500		1a,2a,4f,9a,10c	Spotlight
		50	17979	50PAR/H/FL25-6PK	120	6	CC-8	5.31		2000	600	2750	2200		1a,2a,4f,9a,10c	Floodlight
		50	25948	50PAR/H/FL-TWIN	120	3	CC-8	5.31		2000	600	2750	2200		1a,2a,4f,9a,10c	Floodlight
		50/46	17926	50PAR/H/FL	130/120	12	CC-8	5.31		2000/4000	600/450	2750	2200		1a,2a,4f,9a,10c	Floodlight
		100	17992	100PAR/H/SP10	120	6	CC-8	5.31		2000	1500	2900	22000		1a,2a,4f,9a,10c	Spotlight
		100	17986	100PAR/H/FL25	120	6	CC-8	5.31		2000	1500	2900	5000		1a,2a,4f,9a,10c	Floodlight
		100	25679	100PAR/H/FL/TWIN	120	3	CC-8	5.31		2000	1500	2900	5000		1a,2a,4f,9a,10c	Floodlight
		100/88	17947	100PAR/H/FL25	130/120	12	CC-8	5.31		2000/4000	1500/1150	2900	5000		1a,2a,4f,9a,10c	Floodlight
Cool Beam PAR38																
PAR38	Med Skirt	90	17691	90PAR/CB/H/FL25	120	12	CC-8	5.31		2500	1260	2870	4100		1a,2a,2c,4f,9a,10c	Floodlight
Halogen Compact PAR Lamps																
Compact HIR™																
PAR30	Med	45	41545	45PAR30HIR/SP9XL	120	15	CC-8	3.62		6000	620	2680	9750	⁃	1a,2a,4f,4h,9a,10c	Spotlight
		45	41547	45PAR30HIR/FL25X	120	15	CC-8	3.62		6000	620	2680	2025	⁃	1a,2a,4f,4h,9a,10c	Floodlight
		45	41550	45PAR30HIR/FL35X	120	15	CC-8	3.62		6000	620	2680	1125	⁃	1a,2a,4f,4h,9a,10c	Floodlight
		50	19902	50PAR30/HIR/SP9	120	15	CC-8	3.62		4000	825	2810	150000		1a,2a,4f,4h,9a,10c	Spotlight
		50	19901	50PAR30HIR/FL25	120	15	CC-8	3.62		4000	825	2810	3200		1a,2a,4f,4h,9a,10c	Floodlight
		50/46	21533	50PAR30HIR/FL25	130/120	15	CC-8	3.62		3000/6000	825/620	2810	3200		1a,2a,4f,4h,9a,10c	Floodlight
		50	19900	50PAR30/HIR/FL35	120	15	CC-8	3.62		4000	825	2810	27000		1a,2a,4f,4h,9a,10c	Floodlight
		50/46	19903	50PAR30/HIR/FL35	130/120	15	CC-8	3.62		3000/6000	825/320	2810	27000		1a,2a,4f,4h,9a,10c	Floodlight
Compact HIR™ PAR30 Long Neck																
PAR30L	Med	48	73546	45PAR30/L/HIR+/FL	120	6	CC-8	4.75		4200	850	2750	2500		1a,2a,4f,4h,9a,10c	Floodlight
Compact PAR30 Long Neck																
PAR30L	Med	50	14940	50PAR30L/H/SP10	120	6	CC-8	4.75		3000	580	2800	7500		1a,2a,4f,4h,9a,10c	Spotlight
		50/46	11117	50PAR30L/H/SP10	130/120	15	CC-8	4.75		3000/6000	580/460	2800	7500		1a,2a,4f,4h,9a,10c	Spotlight
		50	11116	50PAR30L/H/FL40	120	15	CC-8	4.75		3000	580	2800	1100		1a,2a,4f,4h,9a,10c	Floodlight
		50/46	11123	50PAR30L/H/FL40	130/120	15	CC-8	4.75		3000/6000	580/460	2800	1100		1a,2a,4f,4h,9a,10c	Floodlight
		50	14941	50PAR30L/H/WFL	120	6	CC-8	4.75		3000	630	2800	880		1a,2a,4f,4h,9a,10c	Wide Floodlight
		75	11124	75PAR30L/H/SP10	120	15	CC-8	4.75		3000	940	2830	13000		1a,2a,4f,4h,9a,10c	Spotlight
		75/66	11129	75PAR30L/H/SP10	130/120	15	CC-8	4.75		3000/6000	940/714	2830	13000		1a,2a,4f,4h,9a,10c	Spotlight
		75	14943	75PAR30L/H/FL25	120	6	CC-8	4.75		3000	940	2830	38000		1a,2a,4f,4h,9a,10c	Floodlight
		75/66	11131	75PAR30L/H/FL25	130/120	15	CC-8	4.75		3000/6000	940/714	2830	38000		1a,2a,4f,4h,9a,10c	Floodlight
PAR30L	Med	75	16393	75PAR30L/H/WFL	120	6	CC-8	4.75		3000	1050	2830	620		1a,2a,4f,4h,9a,10c	Wide Floodlight
			81862	75PAR30LHFL25RVL	120	6	CC-8	4.75		3000	980	2830	3000		1a,2a,4f,4h,9a,10c	Reveal®, Floodlight
			71742	75PAR30LYR-TP2/6	120	6	CC-8	4.75		1500	940	2850	1700		1a,2a,4f,4h,9a,10c	Longer Life Floodlight

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All warning and caution notices found at the end of this section (page 2-17).

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Halogen Compact PAR Lamps (continued)																
Compact PAR30																
PAR30	Med	50	14023	50PAR30/H/SP10	120	6	CC-8	3.62		3000	630	2800	8200		1a,2a,4f,4h,9a,10c	Spotlight
		50/46	17870	50PAR30/H/SP10	130/120	15	CC-8	3.62		3000/6000	630/500	2800	8200		1a,2a,4f,4h,9a,10c	Spotlight
		50	17871	50PAR30/H/FL25	120	15	CC-8	3.62		3000	630	2800	2300		1a,2a,4f,4h,9a,10c	Floodlight
		50/46	17872	50PAR30/H/FL25	130/120	15	CC-8	3.62		3000/6000	630/500	2800	2300		1a,2a,4f,4h,9a,10c	Floodlight
		50	14022	50PAR30/H/FL35	120	6	CC-8	3.62		3000	630	2800	1400		1a,2a,4f,4h,9a,10c	Floodlight
		50/46	17874	50PAR30/H/FL35	130/120	15	CC-8	3.62		3000/6000	630/500	2800	1400		1a,2a,4f,4h,9a,10c	Floodlight
		60	27212	60PAR30/H/NSP9	120	15	CC-8	3.62		3000	800	2800	11000		1a,2a,4f,4h,9a,10c	Spotlight
		60	40167	60PAR30/H/FL25	120	15	CC-8	3.62		3000	800	2800	29000		1a,2a,4f,4h,9a,10c	Floodlight
		60	27214	60PAR30/H/FL35	120	15	CC-8	3.62		3000	800	2800	17000		1a,2a,4f,4h,9a,10c	Floodlight
		75	14802	75PAR30/H/SP10	120	6	CC-8	3.62		3000	1030	2830	13000		1a,2a,4f,4h,9a,10c	Spotlight
		75	81863	75PAR30HFL25/RVL	120	6	CC-8	3.62		3000	1010		3000		1a,2a,4f,4h,9a,10c	Reveal®, Floodlight
		75/66	18056	75PAR30/H/SP10	130/120	15	CC-8	3.62		3000/6000	1030	2830	13000		1a,2a,4f,4h,9a,10c	Spotlight
		75	18057	75PAR30/H/FL25	120	15	CC-8	3.62		3000	1030	2830	38000		1a,2a,4f,4h,9a,10c	Floodlight
		75	14779	75PAR30/H/FL35	120	6	CC-8	3.62		3000	1030	2830	2400		1a,2a,4f,4h,9a,10c	Floodlight
		75/66	18060	75PAR30/H/FL35	130/120	15	CC-8	3.62		3000/6000	1030/790	2830	2400		1a,2a,4f,4h,9a,10c	Floodlight
Compact PAR20																
PAR20	Med	35	85476	35PAR20H/FZS-PQ1/6	120	6	CC-8	3.13		1500	260	2700	520		1a,2a,4f,4h,9a,10c	Floodlight
		35	71740	35PAR20H/YR-TP12	120	12	CC-8	3.13		1500	260	2700	520		1a,2a,4f,4h,9a,10c	Longer Life Floodlight
		50	72795	50PAR20/H/FL25-TW	120	3	CC-8	3.13		3000	570	2800	1500		1a,2a,4f,4h,9a,10c	Indoor Floodlight
		50	14927	50PAR20/H/SP10	120	6	CC-8	3.13		3000	570	2800	6000		1a,2a,4f,4h,9a,10c	Floodlight
		50	81861	50PAR20HFL25/RVL	120	5	CC-8	3.13		2500	470		1360		1a,2a,4f,4h,9a,10c	Reveal®, Floodlight
		50/46	17866	50PAR20/H/SP10	130/120	15	CC-8	3.13		3000/6000	570/498	2800	6000		1a,2a,4f,4h,9a,10c	Spotlight
		50	14928	50PAR20H/FL25	120	6	CC-8	3.13		3000	570	2800	1500		1a,2a,4f,4h,9a,10c	Floodlight
		50/46	17868	50PAR20/H/FL25	130/120	15	CC-8	3.13 cm		3000/6000	570/498	2800	1500		1a,2a,4f,4h,9a,10c	Floodlight
		50	71741	50PAR20H/YR-TP2/6	120	6	CC-8	3.13		1500	550	2750	1000		1a,2a,4f,4h,9a,10c	Longer Life Floodlight
Halogen Compact PAR16																
JDR16	Med	35	20641	35PAR16CURIO	120	3	CC-6V	2.05		3000		2700	500		1a,2a,2b,2e,4f,4i,4h,7a,9a,10b,10c	Curio cabinet
PAR16	Med	60	41628	60PAR16/H/SP10	120	6	CC-8	2.88		2000	650	2950	5400		1a,2a,4f,4h,9a,10c	Spotlight
		60	41623	60PAR16/H/FL30	120	6	CC-8	2.88		2000	650	2950	1550		1a,2a,4f,4h,9a,10c	Floodlight
		60	82142	60PAR16FL/RVL-CD	120	6	CC-8	2.88		2000					1a,2a,4f,4h,9a,10c	Reveal®, Floodlight, Carded
		75	41630	75PAR16/H/SP10	120	6	CC-8	2.88		2000	900	2950	6200		1a,2a,4f,4h,9a,10c	Spotlight
		75	41629	75PAR16/H/FL30	120	6	CC-8	2.88		2000	900	2950	16000		1a,2a,4f,4h,9a,10c	Floodlight
Halogen Reflector																
HIR™																
R20	Med	45	74204	45R20/H/HIR-TP6	120	6	CC-8	3.54		3000	620	2750			–	Halogen Reflector
BR30	Med	45	74205	45R30/H/HIR-TP6	120	6	CC-8	5.37		3000	620	2750			1a,1b, 2a, 2b, 2e, 4i, 7a	Halogen Reflector
BR40	Med	45	74207	45R40/H/HIR-TP6	120	6	CC-8	6.56		3000	620	2750			1a,1b, 2a, 2b, 2e, 4i, 7a	Halogen Reflector
Standard Halogen																
R16	Med	50	97675	50R16/H/FL-CD1/6	120	6	CC-8	90 mm		2000	470	2750	250			Halogen Reflector
		50	90125	50R16/H/FL/RVL-CD	120	6	CC-8	90 mm		2000	340	2750	160			Reveal® Reflector
R20	Med	50	97676	50R20/H/FL-CD1/6	120	6	CC-8	90 mm		2250	540	2750	470			Halogen Reflector
BR30	Med	60	85116	60BR30FL/H-PQ1/6	120	6	CC-8	5.37		3000	700				1a,1b,2a,2b,2e,4i,7a,10b,10c	Halogen Reflector
		60	85127	60BR30FL/H-3PK	120	6	CC-8	5.37		3000	700				1a,1b,2a,2b,2e,4i,7a,10b,10c	Halogen Reflector, 3-Pack
BR40	Med	60	85131	60BR40FL/H-PQ1/6	120	6	CC-8	6.56		3000	790				1a,1b,2a,2b,2e,4i,7a,10b,10c	Halogen Reflector
A-Line/Decorative																
A-15																
A15	Med	40	82114	40A15CF/CL/H-CD2	120	6	CC-8	3.50		2250	415	2700			1a,1b,2a,2b,2e,4i,4j,7a,10b,10c	Ceiling Fan, Halogen
		60	82115	60A15CF/CL/H-CD2	120	6	CC-8	3.50		2250	650	2800			1a,1b,2a,2b,2e,4i,4j,7a,10b,10c	Ceiling Fan, Halogen
A-19																
A19	Med	60	82137	60A/CL/H/RVL-CD	120	5	CC-8	4.43		3000	675				1a,1b,2a,2b,2e,4i,4j,7a,10b,10c	Reveal® Clear, Halogen, Carded
		60	72373	60A/CRY/H/RVL-CD	120	6	CC-8	4.43		3000	800				1a,2a,2b,2c,2e,4i,4j,9a,10b,10c	Reveal® Crystal, Halogen, Carded
		60	71365	60A/H/CR/CD-TP5	120	5	CC-8	4.43		3000	800				1a,2a,2b,2c,4i,4j,9a,10b,10c	Halogen Mirror Top
		60	71366	60A/H/RVL/CR-TP5	120	5	CC-8	4.43		3000	800				1a,2a,2b,2c,4i,4j,9a,10b,10c	Halogen Mirror Top
		75	82138	75A/CL/H/RVL-CD	120	5	CC-8	4.43		3000	850				1a,1b,2a,2b,2e,4i,4j,7a,10b,10c	Reveal® Clear, Halogen, Carded

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Halogen Lamps

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
A-Line/Decorative (continued)																
A-19 (continued)																
A19	Med	100	82139	100A/CL/H/RVL-CD	120	5	CC-8	4.43		3000	1275				1a,1b,2a,2b,2e,4i, 4j,7a,10b,10c	Reveal® Clear, Halogen, Carded
		100	72374	100ACRY/H/RVL-CD	120	6	CC-8	4.43		3000	1400				1a,2a,2b,2c,4i, 4j,9a,10b,10c	Reveal® Crystal, Halogen, Carded
A-21																
A21	3C Med	30/70/100	24699	30/100-HALOGEN	120	6	CC-8	5.25		2500	300/1050/ 1350				1a,2a,2b,2c,4i,4j, 9a,10b,10c	3-Way
		50/100/150	81590	50/150-HALOGEN	120	6	CC-8	5.25		2500	700/1600/ 2300				1a,2a,2b,2c,4i,4j, 9a,10b,10c	3-Way
	Med	50/100/150	71367	50/150/H/RVL-TP6	120	6	CC-8	5.25		2500	5600/1280/ 1840				1a,2a,2b,2c,4i,4j, 9a,10b,10c	3-Way
		150	71364	150A/W/RL/HAL-TP6	120	6	CC-8	5.25		2000	2650				1a,2a,2b,2c,4i,4j, 9a,10b,10c	Reader
TB19																
TB19	Med	50/46	16747	50TB/H	130/120	60	CC-8	4.43	3.13	2000/4000	710/540	2800		◂	1a,2a,4f,4h,9a,10c	Frost, Thick Glass
		50	20647	50A/HAL 6PK	120	6	CC-8	4.43	3.13	2000	710	2800		◂	1a,2a,4f,4h,9a,10c	Frost, Thick Glass
		60	48105	60A/HAL/CD	120	4	CC-8	4.43	2.62	3000	840	2800			1a,2a,4f,4h,9a,10c	Frost, Thick Glass
		60	48106	60A/HAL/CL/CD	120	4	CC-8	4.43	2.62	3000	870	2800			1a,2a,4f,4h,9a,10c	Clear, Thick Glass
		75	48107	75A/HAL/CD	120	4	CC-8	4.43	2.62	3000	1170	2850			1a,2a,4f,4h,9a,10c	Frost, Thick Glass
		90/81	16745	90TB/H	130/120	60	CC-8	4.43	3.13	2000/4000	1580/1220	2930		◂	1a,2a,4f,4h,9a,10c	Frost, Thick Glass
		90	20648	90A/HAL 6PK	120	6	CC-8	4.43	3.13	2000	1580	2930		◂	1a,2a,4f,4h,9a,10c	Frost, Thick Glass
		90	48108	90A/HAL/CD	120	4	CC-8	4.43	2.62 cm	3000	1470	2930		◂	1a,2a,4f,4h,9a,10c	Frost, Thick Glass
BTT																
BT14.5	Med	57	72306	57BTT/CL/CD	120	5	C-8	4.75	3.00	3000	760	2800		◂	1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	Clear, Brass Base, Carded
		57	72307	57BTT/CL/CD/TW	120	5	C-8	4.75	3.00	3000	760	2800		◂	1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	Clear, Brass Base, Twin Pack, Carded
		57	72308	57BTT/SW/CD	120	5	C-8	4.75	3.00	3000	730	2800		◂	1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	White, Brass Base, Carded
		57	72309	57BTT/SW/CD/TW	120	5	C-8	4.75	3.00	3000	730	2800		◂	1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	White, Brass Base, Twin Pack, Carded
		60	10036	60BTT/CL/CD	120	5	C-8	4.75	3.00	3000	900	2800			1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	Clear, Brass Base, Carded
		60	11856	60BTT/CL/CD/TW	120	5	C-8	4.75	3.00	3000	900	2800			1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	Clear, Brass Base, Twin Pack, Carded
		60	10038	60BTT/SW/CD	120	5	C-8	4.75	3.00	3000	840	2800			1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	White, Brass Base, Carded
		60	10039	60BTT/SW/CD/TW	120	5	C-8	4.75	3.00	3000	840	2800			1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	White, Brass Base, Twin Pack, Carded
		60	10044	60BTT/POST/CD	120	5	C-8	4.75	3.00	3000	900	2800			1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	Clear, Brass Base, Carded, Postlamp
		71	72310	71BTT/SW/CD	120	5	C-8	4.75	3.00	3000	1010	2850		◂	1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	White, Brass Base, Carded
		75	10040	75BTT/SW/CD	120	5	C-8	4.75	3.00	3000	1070	2850		◂	1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	White, Brass Base, Carded
		95	72311	95BTT/SW/CD	120	5	C-8	4.75	3.00	3000	1490	2900		◂	1a,2a,2b,2c,4i,4j, 9a,10b,10c	White, Brass Base, Carded
		95	72662	95BTT/SW/CD/TW	120	5	C-8	4.75	3.00	3000	1490	2900		◂	1a,2a,2b,2c,4i,4j, 9a,10b,10c	White, Brass Base, Twin Pack, Carded
		100	10042	100BTT/SW/CD	120	5	C-8	4.75	3.00	3000	1600	2900			1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	White, Brass Base, Carded
		150	10043	150BTT/SW/CD	120	5	C-8	4.75	3.00	3000	2430	2900			1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	White, Brass Base, Carded
Traditional Decorative																
CA11	Cand	25	80567	25CAC/H/CD2	120	5	CC-8	3.40		2250	260	2600			1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	Standard, Chandelier
B10	Cand	25	16764	25BC/H/CD2	120	5	CC-8	3.40	2.22	2250	280	2700			1a,1b,2a,2b,2e,4i, 4j,9a,10b,10c	Carded Twin Pack, Chandelier
B10	Med	25	16760	25BM/H/CD2	120	5	CC-8	3.40	2.22	2250	260	2700			1a,1b,2a,2b,2e,4i, 4j,9a, 10b,10c	Carded Twin Pack, Chandelier
CA11	Cand	40	80568	40CAC/H/CD2	120	5	CC-8	3.40		2250	460	2700			1a,1b,2a,2b,2e,4i, 4j,9a, 10b,10c	Standard Chandelier
B10	Cand	40	16765	40BC/H/CD2	120	5	CC-8	3.40	2.22	2250	485	2800				Carded Twin Pack
	Med	40	16761	40BM/H/CD2	120	5	CC-8	3.40	2.22	2250	485	2800			1a,1b,2a,2b,2e,4i, 4j,9a, 10b,10c	Carded Twin Pack

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Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
A-Line/Decorative (continued)																
Traditional Decorative (continued)																
B13	Med	45	45650	45BM/HAL/PQ1/6	120	6	CC-8	4.63	2.38	3000	600	2750			1a,1b,2a,2b,2e,4i, 4j,9a, 10b,10c	Frost, Thick Glass
Flame																
F15	Med	25	16766	25BFM/H/CD2	120	5	CC-8	3.40	2.22	2250	280	2700			1a,1b,2a,2b,2e,4i, 4j,9a, 10b,10c	Carded Twin Pack
		40	16767	40BFM/H/CD2	120	5	CC-8	3.40	2.22	2250	485	2800			1a,1b,2a,2b,2e,4i, 4j,9a, 10b,10c	Carded Twin Pack
Globe																
G16.5	Cand	40	71370	40GC/H/CR/CD2-TP	120	6	CC-8	78mm	52mm	2250	415	2700			1a,1b,2a,2b,2e,4i, 4j,7a,9c,10b,10c	Globe, Clear, Mirror Top
G16.5	Med	40	71371	40GM/H/CR/CD2-TP	120	6	CC-8	78mm	52mm	2250	415	2700			1a,1b,2a,2b,2e,4i, 4j,7a,9c,10b,10c	Clear, Mirror Top Globe
G25	Med	40	16771	40G25/H/CL	120	6	CC-8	4.45	2.60	2250	510	2700			1a,1b,2a,2b,2e,4i, 4j,9c, 10b,10c	Reveal®, Halogen Globe
		40	82140	40G25/CL/H/RVL	120	6	CC-8	4.50	2.60	2250	510				1a,1b,2a,2b,2e,4i, 4j,9c, 10b,10c	Halogen, Clear Globe
		40	16774	40G25/H/CRYSTAL	120	6	CC-8	4.45	2.60	2250	500	2700			1a,1b,2a,2b,2e,4i, 4j,9c, 10b,10c	Crystal Clear Globe
		40	71373	40G25H/CRY/RV-TP	120	6	CC-8	4.45	2.56	2250	500	2700			1a,1b,2a,2b,2e,4i, 4j,7a,9c,10b,10c	Reveal®, Crystal Globe
		40	71368	40G25H/CL/CR-TP	120	6	CC-8	4.45	2.56	2250	520	2700			1a,1b,2a,2b,2e,4i, 4j,7a,9c,10b,10c	Clear, Mirror Top Globe
		40	71369	40G25H/RVL/CR-TP	120	6	CC-8	4.45	2.56	2250	390	2650			1a,1b,2a,2b,2e,4i, 4j,7a,9c,10b,10c	Reveal®, Mirror Top Globe
		60	16773	60G25/H/CL	120	6	CC-8	4.45	2.60	2250	1000	2900			1a,1b,2a,2b,2e,4i, 4j,9c, 10b,10c	Clear, Halogen Globe
		60	82141	60G25/CL/H/RVL	120	6	CC-8	4.50	2.60	2250	510				1a,1b,2a,2b,2e,4i, 4j,9c, 10b,10c	Reveal®, Halogen Globe
		60	16775	60G25/H/CRYSTAL	120	6	CC-8	4.45	2.60	2250	960	2900			1a,1b,2a,2b,2e,4i, 4j,9c, 10b,10c	Crystal Globe
		60	71374	60G25H/CRY/RV-TP	120	6	CC-8	4.45	2.56	2250	750	2800			1a,1b,2a,2b,2e,4i, 4j,7a,9c,10b,10c	Reveal®, Crystal Globe
		60	90750	60G25H/CL/CR-TP	120	6	CC-8	4.45	2.56	2250	1000	2900			1a,1b,2a,2b,2e,4i, 4j,7a,9c,10b,10c	Clear, Mirror Top Globe
		60	90751	60G25H/RVL/CR-TP	120	6	CC-8	4.45	2.56	2250	750	2800			1a,1b,2a,2b,2e,4i, 4j,7a,9c,10b,10c	Reveal®, Globe, Mirror Top
T-Shape																
T10	Med	40	16777	40T10/H/CD	120	4	CC-8	5.04	2.56	2250	510	2700			1a,1b,2a,2b,2e,4i, 4j,9c, 10b,10c	Carded
		60	16778	60T10/H/CD	120	4	CC-8	5.04	2.56	2250	800	2900			1a,1b,2a,2b,2e,4i, 4j,9c, 10b,10c	Carded
Landscape Lighting																
MR16	2-Pin GX5-3	20	71485	Q20MR16/LAND-CD	12	3	C-6	1.88		2000		2900	450			Outdoor Floodlight
		35	71486	Q35MR16/LAND-CD	12	3	C-6	1.88		2000	875	2900	840			Outdoor Floodlight
T3	2-Pin G4	10	71494	Q10T3/LAND-CD2	12	25	C-8	1.25	0.75	2000	140	2850				Outdoor
		20	71495	Q20T3/LAND-CD2	12	25	C-8	1.25	0.75	2000	320	2950				Outdoor
	2-Pin GY6.35	50	71496	Q50T3/LAND-CD2	12	25	C-8	1.75	1.13	3000	900	2950				Outdoor
PAR36	PAR36	25	71498	25PAR36/LAND	12	6	C-6	2.75		2000		3000				Outdoor
	PAR36	20	71499	20PAR36/LL/LAND	12	6	C-6	2.75		5000		3000				Outdoor
AR70																
AR70	DCBay Ba15d	50	72255	50AR70/SP8	12	10	C-8	2.64		3000		2800	12500		2e,4a,4e,4f,9a,9d, 10b,10c	Spotlight
AR111																
	G53	35	72253	35AR111/SP4	12	10	C-8	2.64		3000		2800	22000		2a,4a,4e,4f,9a,9d, 10b,10c	Narrow Spotlight
		35	97532	35AR111/SP8	12	10	C-8	2.64		3000		2800	14000		2a,2j,4a,4e,4f,9a, 9d,10b,10c	Spotlight
		35	97533	35AR111/FL24	12	10	C-8	2.64		3000		2800	2500		2a,2j,4a,4e,4f,9a, 9d,10b,10c	Narrow Floodlight
		50	72254	50AR111/SP4	12	10	C-8	2.64		3000		2850	25000		2a,4a,4e,4f,9a,9d, 10b,10c	Narrow Spotlight
		50	97534	50AR111/SP8	12	10	C-8	2.64		3000		2800	17800		2a,2j,4a,4e,4f,9a, 9d,10b,10c	Spotlight
		50	97535	50AR111/FL24	12	10	C-8	2.64		3000		2800	3500		2a,2j,4a,4e,4f,9a, 9d,10b,10c	Narrow Floodlight
		75	97536	75AR111/SP8	12	10	C-8	2.64		3000		2900	23500		2a,2j,4a,4e,4f,9a, 9d,10b,10c	Spotlight

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Halogen Lamps

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
AR111 (continued)																
AR111	GS3	75	97537	75AR111/FL24	12	10	C-8	2.64		3000		2900	5300		2a,2j,4a,4e,4f,9a, 9d,10b,10c	Narrow Floodlight
		75	97538	75AR111/FL45	12	10	C-8	2.64		3000		2900	1700		2a,2j,4a,4e,4f,9a, 9d,10b,10c	Wide Floodlight
		100	97539	100AR111/SP8	12	10	C-8	2.64		3000		2950	40000		2a,2j,4a,4e,4f,9a, 9d,10b,10c	Spotlight
		100	97540	100AR111/FL24	12	10	C-8	2.64		3000		2950	8000		2a,2j,4a,4e,4f,9a, 9d,10b,10c	Narrow Floodlight
		100	97541	100AR111/FL45	12	10	C-8	2.64		3000		2950	2300		2a,2j,4a,4e,4f,9a, 9d,10b,10c	Wide Floodlight
MR																
Turn & Lock ConstantColor®																
MR16	TAL GU7	35	81282	35MR16/6/TL-AX	12	10	C-8	1.88		3500	475	3200	8500			
		35	30932	35MR16/Q/8/TL	12	10	C-6	2.00		3500		2900	8100		2a,2b,4f,7a,9a,10b,10c	Narrow Spot
		50	30901	50MR16/Q/10/TL	12	10	C-6	2.00		3500		3000	108000		2a,2b,4f,7a,9a,10b,10c	Narrow Spot
		50	30900	50MR16/Q/20/TL	12	10	C-6	2.00		3500		3000	3330		2a,2b,4f,7a,9a,10b,10c	Narrow Flood
		50	30899	50MR16/Q/40/TL	12	10	C-6	2.00		3500		3000	1395		2a,2b,4f,7a,9a,10b,10c	Floodlight
ConstantColor® Precise™ Cover Glass MR16																
MR16	2-Pin GU5.3	20	20858	Q20MR16C/CG15ESX	12	20	C-6	1.88		5000		2900	3150		2a,2b,4f,9a,10c	Narrow Spot, ANSI: ESX
		20	20857	Q20MR16C/CG40BAB	12	20	C-6	1.88		5000		2900	475		2a,2b,4f,9a,10c	Flood. ANSI: BAB
		35	20864	Q35MR16/C/CG12	12	20	C-6	1.88		5000		3000	7500		2a,2b,4f,9a,10c	Narrow Spot, ANSI: FRB
		35	20860	Q35MR16C/CG20	12	20	C-6	1.88		5000		3000	3200		2a,2b,4f,9a,10c	Spot, ANSI: FRA
		35	20859	Q35MR16C/CG40	12	20	C-6	1.88		5000		3000	9000		2a,2b,4f,9a,10c	Flood. ANSI: FMW
		35	41487	Q35MR16/CCG40	24	20	CC-6	1.88		4000		2950	920		2a,2b,4f,9a,10c	Floodlight
		50	20872	Q50MR16C/CG15	12	20	C-6	1.88		6000		3050	8400		2a,2b,4f,9a,10c	Narrow Spot, ANSI: EXT
		50	20871	Q50MR16C/CG25	12	20	C-6	1.88		6000		3050	29000		2a,2b,4f,9a,10c	Narrow Spot, ANSI: EXZ
		50	20867	Q50MR16C/CG40	12	20	C-6	1.88		6000		3050	1500		2a,2b,4f,9a,10c	Flood, ANSI: EXN
		50	20865	Q50MR16C/CG55	12	20	C-6	1.88		6000		3050	850		2a,2b,4f,9a,10c	Wide Flood, ANSI: FNV
		50	41488	Q50MR16/C/CG15	24	20	CC-6	1.88		4000		2950	8400		2a,2b,4f,9a,10c	Narrow Spot
		50	41489	Q50MR16/C/CG40	24	20	CC-6	1.88		4000		2950	1570		2a,2b,4f,9a,10c	Floodlight
		71	20876	Q71MR16/C/CG15	12	20	C-6	1.88		4000		3050	108000		2a,2b,4f,9a,10c	Narrow Spot, ANSI: EYF
		71	20874	Q71MR16/C/CG25	12	20	C-6	1.88		4000		3050	4550		2a,2b,4f,9a,10c	Narrow Spot, ANSI: EYJ
		71	20873	Q71MR16/C/CG40	12	20	C-6	1.88		4000		3050	2000		2a,2b,4f,9a,10c	Flood, ANSI: EYC
ConstantColor® Precise™ MR16																
MR16	2-Pin GX5.3	20	20816	Q20MR16/C/VNSP7	12	20	CC-6	1.88		3000		2900	7400		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Very Narrow Spot, ANSI: EZX
		20	20815	Q20MR16/C/NSP15	12	20	C-6	1.88		5000		2900	3750		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Narrow Spot, ANSI:ESX
		20	20814	Q20MR16C/FL40	12	20	C-6	1.88		5000		2900	525		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Flood. ANSI: BAB
		35	20826	Q35MR16/C/SP20	12	20	C-6	1.88		5000		3000	39000		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Spot, ANSI: FRA
		35	20825	Q35MR16/C/FL40	12	20	C-6	1.88		5000		3000	1000		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Flood. ANSI: FMW
		42	20830	Q42MR16/C/VNSP9	12	20	CC-6	1.88		3500		3000	12300		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Very Narrow Spot, ANSI: EZY
		50	20839	Q50MR16/C/NSP15	12	20	C-6	1.88		6000		3050	9100		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Narrow Spot, ANSI: EXT
		50	20835	Q50MR16/C/NFL25	12	20	C-6	1.88		6000		3050	3200		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Narrow Flood, ANSI: EXZ
		50	20834	Q50MR16C/NFL30	12	20	C-6	1.88		6000		3050	2500		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Narrow Flood, ANSI: EXK
		50	20833	Q50MR16/C/FL40	12	20	C-6	1.88		6000		3050	17000		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Flood. ANSI: EXN
		50	20832	Q50MR16/C/WFL55	12	20	C-6	1.88		6000		3050	9000		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Wide Flood, ANSI: FNV
MR16	2-Pin GX5.3	71	20843	Q71MR16/C/NSP15	12	20	C-6	1.88		4000		3050	11500		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Narrow Spot, ANSI: EYF
		71	20841	Q71MR16/C/NFL25	12	20	C-6	1.88		4000		3050	5500		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Narrow Flood, ANSI: EYJ
		71	20840	Q71MR16/C/FL40	12	20	C-6	1.88		4000		3050	2200		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Flood. ANSI: EYC
Precise™ Cover Glass IR MR16																
MR16	2-Pin GU5.3	20	28709	Q20MR16/HIR/CG10	12	20	C-8	1.88		5000		3000	6000		2a,2b,4f,9a,10c	Narrow Spot
		20	28710	Q20MR16/HIR/CG25	12	20	C-8	1.88		5000		3000	2300		2a,2b,4f,9a,10c	Narrow Flood
		20	28718	Q20MR16/HIR/CG35	12	20	C-8	1.88		5000		3000	1000		2a,2b,4f,9a,10c	Flood
		37	16715	Q37MR16/HIR/CG10	12	20	C-8	1.80		5000		3000	12500		2a,2b,4f,9a,10c	Narrow Spot
		37	16716	Q37MR16/HIR/CG25	12	20	C-8	1.80		5000		3000	4400		2a,2b,4f,9a,10c	Narrow Flood
		37	16717	Q37MR16/HIR/CG40	12	20	C-8	1.80		5000		3000	2050		2a,2b,4f,9a,10c	Flood
		50	16718	Q50MR16/HIR/CG10	12	20	C-8	1.80		5000		3000	150000		2a,2b,4f,9a,10c	Narrow Spot
		50	16719	Q50MR16/HIR/CG25	12	20	C-8	1.80		5000		3000	57000		2a,2b,4f,9a,10c	Narrow Flood

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Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
MR (continued)																
Precise™ Cover Glass IR MR16 (continued)																
MR16	2-Pin GX5.3	50	16720	Q50MR16/HIR/CG40	12	20	C-8	1.80		5000		3000	26000		2a,2b,4f,9a,10c	Flood
Standard MR16																
MR16	2-Pin GX5.3	20	25481	Q20MR16/SP	12	20	C-6	1.88		2000		2900	3500		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Spot, ANSI: ESX
		20	25480	Q20MR16/FL	12	20	C-6	1.88		2000		2900	500		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Flood, ANSI: BAB
		20	85290	Q20MR16/SP-PQ3/6	12	6	C-6	1.88		2000		2900	3500		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Spotlight, ANSI: ESX
		20	85289	Q20MR16/FL-PQ3/6	12	6	C-6	1.88		2000		2900	500		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Floodlight ANSI: BAB
		50	25483	Q50MR16/SP	12	20	C-6	1.88		2000		2900	9500		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Spot, ANSI: EXT
		50	25482	Q50MR16/FL	12	20	C-6	1.88		2000		2900	1500		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Flood, ANSI: EXN
		50	85296	Q50MR16/FL-PQ3/6	12	6	C-6	1.88		2000		2900	9500		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Flood, ANSI: EXN
		50	85297	Q50MR16/SP-PQ3/6	12	6	C-6	1.88		2000		2900	1500		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Spot, ANSI: EXT
Standard MR16 Cover Glass																
MR16	2-Pin GX5.3	20	81763	Q20MR16CGFLCD-BA	12	6	C-6	1.88		2000	500	2900	450		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Flood, Basic
		20	81765	Q20MR16CGSPCD-BA	12	6	C-6	1.88		2000	3500	2900	3150		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Spot, Basic
		35	81768	Q35MR16CGFLCD-BA	12	6	C-6	1.88		2000	875	2900	840		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Flood, Basic
		35	81769	Q35MR16CGSPCD-BA	12	6	C-6	1.88		2000	6125	2900	6750		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Spot, Basic
		50	81770	Q50MR16CGFLCD-BA	12	6	C-6	1.88		2000	1250	2900	1350		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Flood, Basic
		50	81771	Q50MR16CGSPCD-BA	12	6	C-6	1.88		2000	8750	2900	8550		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Spot, Basic
MR16	2-Pin GX5.3	50	82110	Q50MR16FCCGRV-CD	12	6	C-6	1.88		3000		2950	1750		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Reveal®, Spotlight, Carded
		50	82111	Q50MR16SCCGRV-CD	12	6	C-6	1.88		3000		2950	9000		2a,2j,4a,4c,4e,4f,9a, 9d, 10b,10c	Reveal®, Floodlight, Carded
Standard MR11																
MR11	2-Pin G4	20	30754	Q20MR11/SP15IFTC	12	10	C-6	1.38		3500		2900	1760		2a,2b,4c,4e,4f,9a, 9d, 10b,10c,11a	Spot, ANSI: FTC
		20	30773	Q20MR11/NFL30	12	10	C-6	1.38		3500		2900	600		2a,2b,4c,4e,4f,9a, 9d, 10b,10c,11a	Narrow Flood, ANSI: FTD
		35	30774	Q35MR11SP20IFTF)	12	10	C-6	1.38		3500		2900	3000		2a,2b,4c,4e,4f,9a, 9d, 10b,10c,11a	Spot, ANSI: FTF
		35	30890	Q35MR11NFL30IFTH	12	10	C-6	1.38		3500		2900	1300		2a,2b,4c,4e,4f,9a, 9d, 10b,10c,11a	Narrow Flood, ANSI: FTH
		35	41483	Q35MR11/CG12 24	24	50	C-6	1.38		2000		2950	4100		2a,2b,4c,4f,9a,10c	Spot
		35	41484	Q35MR11/CG30 24	24	50	C-6	1.38		2000		2950	1300		2a,2b,4c,4f,9a,10c	Narrow Flood
		35	71372	Q35MR11/FC/CG/RV-CD	12	6	C-6	1.38		2250		2900	1170		2a,2b,4c,4e,4f,9a, 9d, 10b,10c,11a	Floodlight
120V GU10																
MR16	GU10	20	16753	Q20GU10/FL/CD	120	5	CC-2V	2.13		2000		2600	230		1a,2a,2b,2e,4f,ai, 9a,10b,10c	Flood Carded
		35	16752	Q35GU10/FL/CD	120	5	CC-2V	2.13		3000		2650	500		1a,2a,2b,2e,4f,ai, 9a,10b,10c	Flood Carded
		50	16751	Q50GU10/FL/CD	120	5	CC-2V	2.13		3000		2750	1000		1a,2a,2b,2e,4f,ai, 9a,10b,10c	Flood Carded
		50	82143	Q50GU10FL/RVL-CD	120	6	CC-2V	2.13		3000		400	2750		1a,2a,2b,2e,4f,ai, 9a,10b,10c	Reveal®, Floodlight, Carded
Quartz Halogen																
Low Voltage																
T3	2-Pin G4	5	42959	Q5T3/CL	12	100	C-6	1.25 cm	0.75	2000	60				2a,2j,4c,4e,4f,9a, 9d,10b,10c	Clear
		10	34674	Q10T3/CL	12	100	C-6	1.25 cm	0.75	2000	140					Clear
		10	97668	Q10T3/CL/SCD-5PK	12	100	C-6	1.25 cm	0.75	2000	140				2a,2j,4c,4e,4f,9a, 9d,10b,10c	Display lights, Small Card
		20	34715	Q20T2.5/12V/CL	12	100	C-6	1.25 cm	0.75	2000	350					Clear, 12V
		20	97669	Q20T3/CL/SCD-5PK	12	25	C-6	1.25 cm	0.75	2000	350				2a,2j,4c,4e,4f,9a, 9d,10b,10c	Display lights, Small Card
T3	2-Pin GY6.35	35	34708	Q35T3/12V/CL	12	100	C-6	1.75 cm		2000	550				2a,2j,4c,4e,4f,9a, 9d,10b,10c	Clear, 12V
		35	48503	Q35T3/CL/CD 5PK	12	25	C-6	1.75 cm		2000	550				2a,2j,4c,4e,4f,9a, 9d,10b,10c	Clear Carded
		50	34702	Q50T3/12V/CL	12	100	C-6	1.75 cm		2000	850				2a,2j,4c,4e,4f,9a, 9d,10b,10c	Clear, 12V

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Halogen Lamps

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Quartz Halogen (continued)																
Low Voltage (continued)																
T4	2-Pin GY6.35	50	97670	Q50T3/CL/SCD-SPK	12	25	C-6	1.75 cm	1.13	2000	950				2a,2j,4c,4e,4f,9a,9d,10b,10c	Display lights
		75	19377	Q75T4/CL/CD SPK	12	25	C-6	1.75 cm	1.13	2000	1400				2a,2j,4c,4e,4f,9a,9d,10b,10c	Clear, Carded
T3	2-Pin GY6.35	100	34676	Q100T3/12V/CL	12	100	CC-6	1.75 cm		2000	2350				2a,2j,4c,4e,4f,9a,9d,10b,10c	Clear, 12V
		100	34663	Q100T3/24V/CL	24	100	CC-6	1.75		2000	2000				2a,2j,4c,4e,4f,9a,9d,10b,10c	Clear, 24V
High Voltage																
T4	2-Pin G8	25	97664	Q25G8/SCD2	120	5	CC-2V	1.59	1.04	1500	240	2600			1a,2a,2b,2e,4f,ai,9a,10b,10c	Small Card, Twin Pack
		50	21941	Q50G8/CD	120	5	CC-2V	1.77	1.33	1300	700	2750			1a,2a,2b,2e,4f,ai,9a,10b,10c	Carded
		50	97665	Q50G8/SCD	120	5	CC-2V	1.77	1.33	1300	700	2750			1a,2a,2b,2e,4f,ai,9a,10b,10c	Small Card
		50	72868	Q50G8/SCD2-PK5	120	5	CC-2V	1.77	1.33	1300	700	2750			1a,2a,2b,2e,4f,ai,9a,10b,10c	Small Card, Twin Pack
		75	97666	Q75G8/SCD	120	5	CC-2V	1.77	1.34	1500	900	2850			1a,2a,2b,2e,4f,ai,7a,9a,10b,10c	Small Card
		75	72869	Q75G8/SCD2-PK5	120	5	CC-2V	1.77	1.34	1500	900	2850			1a,2a,2b,2e,4f,ai,7a,9a,10b,10c	Small Card, Twin Pack
		100	97667	Q100G8/SCD	120	5	CC-2V	1.77	1.34	1500	1300	2900			1a,2a,2b,2e,4f,ai,7a,9a,10b,10c	Small Card
		100	72870	Q100G8/SCD2-PK5	120	5	CC-2V	1.77	1.34	1500	1300	2900			1a,2a,2b,2e,4f,ai,7a,9a,10b,10c	Small Card, Twin Pack
Quartzline®																
HIR™ Recessed Single Contact (R7s)																
T2.5	R7s	350	13894	Q350T3/CL/HIR	120	6	C-8	4.69	2.25	2000	10000	3075		▪	1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b	IR, Clear, Horizontal
		350	14311	Q350T3/CL/HIR	130/120	6	C-8	4.69	2.25	2000	9600	3000		▪	1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b	IR, Clear, Horizontal
		900	13642	Q900T3/CL/HIR	240	6	C-8	10.06	6.13	2000	32000	3160		▪	1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b	IR, Clear, Horizontal
		900	14335	Q900T3/CL/HIR	277	6	C-8	10.06	6.13	2000	31000	3160		▪	1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b	IR, Clear, Horizontal, Halogen
Halogen G9																
T4	G9	25	16754	Q25G9/CD	120	5	CC-8	1.77	1.26	3000	240	6250			1a,2a,2b,2e,4f,ai,9a,10b,10c	Carded
		40	16755	Q40G9/CD	120	5	CC-8	1.77	1.26	3000	480	2750			1a,2a,2b,2e,4f,ai,9a,10b,10c	Carded
		60	16756	Q60G9/CD	120	5	CC-8	1.77	1.26	3000	780	2800			1a,2a,2b,2e,4f,ai,9a,10b,10c	Carded
		75	16759	Q75G9/CD	120	5	CC-8	1.77	1.26	3000	1100	2850			1a,2a,2b,2e,4f,ai,9a,10b,10c	Carded
Halogen Double Contact Bayonet (BA15d)																
T4	D C Bay BA15d	100	16451	Q100DC	120	6	CC-8	2.44	1.38	2000	1,550.00	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Frosted
		100	15508	Q100CL/DC	120	6	CC-8	2.44	1.38	2000	1600	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Clear
		100	44386	Q100CL/DC/2V	120	6	CC-2V	2.44	1.38	750 h	1800	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Clear
		150	44653	Q150DC	120	6	CC-8	2.50	1.38	2000	2700	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Frosted
		150	43693	Q150CL/DC	120	6	CC-8	2.50	1.38	2000	2800	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Clear
		150	44384	Q150CL/DC/2V	120	6	CC-2V	2.44	1.38	1000	2800	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Clear
		250	43701	Q250DC	120	6	CC-8	3.00	1.63	2000	4,850.00	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Frosted
		250	43702	Q250DC	130/120	6	CC-8	3.00	1.63	2000	4,850.00	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Frosted
		250	43697	Q250CL/DC	120	6	CC-8	3.00	1.63	2000	5,000.00	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Clear
		250	43698	Q250CL/DC	130/120	6	CC-8	3.00	1.63	2000	5,000.00	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Clear
		500	43709	Q500DC	120	6	CC-8	3.44	2.13	2000	10,100.00	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Frosted
		500	43710	Q500CL/DC	120	6	CC-8	3.44	2.13	2000	10,450.00	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Clear

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Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Quartz Halogen (continued)																
Halogen Recessed Single Contact (R7s)																
T3	R7s	100	73286	Q100T3/SCD-SPK	210	5	C-8	3.13	1.25	1500	1650	2950			1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a	Torchiere, Motion-Sensing and Security, Small Card
		100	22489	Q100T3/CL/CD 5PK	210	60	C-8	3.13	1.25	1500	1650	2950			1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a	Clear, Horizontal, Carded
		150	27449	Q150T3/117/CL/CD	120	60	C-8	4.69	2.25	1500	2400	2950			1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a	Clear, Horizontal, Carded
		150	19378	Q150T3/CL/CD 5PK	120	60	C-8	3.13	1.25	1500	2400	2950			1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a	Clear, Horizontal, Carded
		150	97672	Q150T3/HD/SCD2	120	25	C-8	3.13	1.25	2000	2400	2950			1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a	Torchiere, Motion-Sensing and Security, Small Card
T2.5	R7s	250	22865	Q250T3/CL-6PK	120	144	C-8	3.13	1.25	1500	4000	2950			1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a	Clear, Horizontal
		250	22121	Q250T3/CL/CD 5PK	120	60	C-8	3.13	1.13	1500	4000	2950			1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a	Clear, Carded
		300	43703	Q300T3/CL-6PK	120	144	C-8	4.69	2.25	2000	5950	2950			1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a	Clear, Horizontal
		300	19379	Q300T3/CL/CD 5PK	120	60	C-8	4.69	2.25	2000	5950	2950			1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a	Clear, Horizontal, Carded
		300	27447	Q300T3CL/CD2-5PK	120	60	C-8	4.69	2.25	2000	5950	2950			1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a	Clear, Horizontal, Carded
		300	97673	Q300T3/HD/SCD2	120	25	C-8	4.69	2.25	2000	5950	2950			1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a	Torchiere, Small Card, Twin Pack
		500	23731	Q500T3/CL	120	12	C-8	4.69	2.25	2000	11100	3000			1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a	Clear, Horizontal
		500	23733	Q500T3/CL	130/120	12	C-8	4.69	2.25	2000	10550	3000			1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a	Clear, Horizontal
		500	23744	Q500T3/CL/6-12PK	120	144	C-8	4.69	2.25	1500	10950	3000			1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a	Clear, 6 Filament Support, Rough Service, Horizontal
		500	19382	Q500T3/CL/CD 5PK	120	60	C-8	4.69	2.25	2000	11100	3000			1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a	Clear, Horizontal, Carded
		500	27448	Q500T3CL/CD2-5PK	120	60	C-8	4.69	2.25	2000	11100	3000			1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a	Clear, Horizontal, Carded
		500	97674	Q500T3/HD/SCD2	120	25	C-8	4.69	2.25	2000	11100	2950			1a,2a,2j,4a,4c,4d,4e,4f,4g,9a,9d,10b,10c,11a	Special service, Motion-Sensing and Security, Small Card, Twin Pack
T3	R7s	1000	43711	Q1000T3/CL-6PK	230	144	C-8	10.06	6.13	2000	21500	3050			1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b	Clear, Horizontal
		1000	43712	Q1000T3/CL-6PK	240	144	C-8	10.06	6.44	2000	21500	3050			1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b	Clear, Horizontal
		1500	23828	Q1500T3/CL-12PK	208	144	C-8	10.06 cm	6.25 cm	2000	33000	3050			1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b	Clear, Horizontal
		1500	23826	Q1500T3/CL-12PK	220	144	C-8	10.06	6.18	2000	35800	3050			1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b	Clear, Horizontal
		1500	23830	Q1500T3/CL	240	12	C-8	10.06 cm	6.31 cm	2000	32000	3050			1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b	Clear, Horizontal
		1500	23832	Q1500T3/CL	277	12	C-8	10.06	6.25	2000	34400	3050			1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b	Clear, Horizontal
T4	R7s	150	23710	Q150T4/CL	25	12	CC-8	2.56		3000	2760	2850			2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Clear, Dental Spotlight
T4	R7s	300	43705	Q300T4/CL	120	12	CC-8	3.13	2.25	2000	5650	2900			1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,11a	Clear
Halogen Miniature Candelabra Screw (E11)																
T4	Mini-Cand	100	16452	Q100MC	120	6	CC-8	2.81	1.38	2000	1550	2950			1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,12e	Frosted
		100	15507	Q100CL/MC	120	6	CC-8	2.81	1.38	2000	1600	2950			1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,12e	Clear
		100	44385	Q100CL/MC/2V	120	6	CC-2V	2.81	1.38	750 H	1800	2950			1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,12e	Clear
		100	19383	Q100CL/MC/CD 5PK	120	25	CC-8	2.81	1.38	2000	1600	2950			1a,2a,2j,4a,4c,4e,4f,4g,9a,9d,10b,10c,12e	Clear, Carded
T3	Mini-Cand	75	12715	Q75CL/MC/CD	120	25	CC-8	2.50	1.25	1000	1050	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e	Clear, Carded
T4	Mini-Cand	150	44654	Q150MC	120	6	CC-8	3.00	1.38	2000	2700	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e	Frosted
		150	43694	Q150CL/MC	120	6	CC-8	3.00	1.38	2000	2800	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e	Clear

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Halogen Lamps

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Quartz Halogen (continued)																
Halogen Miniature Candelabra Screw (E11) (continued)																
T4	Mini-Cand	150	19386	Q150CL/MC/CD 5PK	120	25	CC-8	3.00	1.38	2000	2800	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e	Clear, Carded
		250	43695	Q250MC	120	6	CC-8	3.16	1.63	2000	4850	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e	Frosted
		250	43696	Q250MC	130/120	6	CC-8	3.16	1.63	2000	4850	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e	Frosted
		250	43699	Q250CL/MC	120	6	CC-8	3.16	1.63	2000	5000	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e	Clear
		250	43700	Q250CL/MC	130/120	6	CC-8	3.16	1.63	2000	5000	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e	Clear
		250	19387	Q250CL/MC/CD 5PK	120	25	CC-8	3.16	1.63	2000	5000	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e	Clear, Carded
		400	43706	Q400MC	120	6	CC-8	3.62	2.00	2000	7850	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e	Frosted
		400	43707	Q400CL/MC	120	6	CC-8	3.62	2.00	2000	8250	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e	Clear
		500	47950	Q500CL/MC (EVR)	120	6	CC-8	3.62	2.00	2000	10450	2950			1a,2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e	Stage and Studio
Other																
T4	DC PreFoc	45	14473	Q45T4/CL/DCR	6.6A	12	C-6	2.60	1.06	500	845	2850			1a,2a,2j,2k,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Airport and Airfield
	2-Pin Prefoc GY16d	45	41541	Q45T4/CL	45	12	C-6	2.50	1.06	500	835	3100			2a,2j,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12c	Clear, Airport, Base Down
		200	40702	Q200T4/CL	200	12	CC-6	2.50	1.53	500	4500	3100			2a,2j,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c	Clear, Airport, Base Down
T4	2-Pin GY9.5	235	11548	Q235T4/3	33	12	CC-6	2.63	1.53	150	6000	3125			2a,2j,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12c	Frosted, Instrument, Prefocus
T8	1" Ribbon Leads	500	39071	Q500T8/1CL	500	20	CC-8	4.25	2.50	500	13400	3200			1a,2a,2j,2k,4a,4c,4d,4e,4f,4g,8a,9a,9d,10b,10c,12b	Clear, Airport, Special Bulb
Airport																
T2.5	Bi-Pin Special	45	23847	Q6 6A/T2 1/2/1CL	6.6A	12	C-8	1.75		1000	710				2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Clear, Airport
T4	1" Ribbon Leads	200	23857	Q6.6A/T4/5CL	6.6A	12	CC-8	3.00		500	5000				2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c	Clear, Airport
T4	D C Bay BA15d	200	23860	Q6.6AT4/DCR	6.6A	12	CC-6	2.50	1.06	500	5150				2a,2j,4a,4c,4e,4f,4g,8a,9a,9d,10b,10c,12e	Clear, Airport, Ringed
PAR56	Mog End Pr GX16d	200	18309	Q6.6A/PAR56/4	6.6A	12	CC-6	5.00		600					2a,2j,4b,4c,4d,4f,4g,7a,9b,10c	PAR, Airport, Prismatic Lens, BDTH
Tubular Quartz Heat																
Sleeve																
T3	Sleeve	300	39019	QH300T3/CL	120	12	C-8	8.50	4.19	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear
		375	21337	QH375T3/CL	120	12	C-8	8.80	5.06	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear
		500	21788	QH500T3/CL	120	12	C-8	8.80	4.81	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear
		1000	22355	QH1000T3/CL	210	12	C-8	13.80	10.00	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear
Recessed Single Contact (R7s)																
T3	Sleeve	1000	22357	QH1000T3/CL	240	12	C-8	13.81	10.00	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared
		1000	22358	QH1000T3/CL/1	240	12	C-8	11.90	10.00	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, Horizontal
		1000	22365	QH1000T3/2CL/HT	240	12	C-8	13.80	10.00	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, High Temp, Construction, Horizontal
		1200	22531	QH1200T3/CL	144	12	C-8	8.80	6.13	5000		2450			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, Horizontal
		1200	22532	QH1200T3/CL/HT	144	12	C-8	8.80	6.13	5000		2450			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, High Temp, Construction, Horizontal

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Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	Filament Type	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Initial Color Temp	CBCP	Reduced Wattage	Warning and Caution Notices	Additional Information
Tubular Quartz Heat (continued)																
Recessed Single Contact (R7s) (continued)																
T3	Sleeve	1600	22686	QH1600T3/CL	210	12	C-8	19.80	15.88	5000		2350			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Horizontal
		1600	22688	QH1600T3/CL	240	12	C-8	19.80	15.88	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, Horizontal
		1600	22695	QH1600T3/CL	277	12	C-8	19.80	15.88	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Horizontal
		2500	22838	QH2500T3/CL	480	12	C-8	28.80	24.88	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, Horizontal
		3800	22875	QH3800T3/CL	575	6	C-8	41.80	38.00	5000		2500			1a,2a,2b,3a,4f,5a,5b,9a,9d,10c,12b,12e	Infrared, Horizontal
		3800	22878	QH3800T3/CL/VB	575	6	C-8	41.80	38.00	5000		2500			1a,2a,2b,3a,4f,5a,5b,9a,9d,10c,12e	Infrared, Clear, Universal
		6600	13511	QH6600T3/CL/HT	480	12	C-8	11.90	9.75	150					1a,2a,2b,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, Horizontal, High Temp
T3	R7s	375	38893	QH375T3/CL/7	120	12	C-8	8.80	5.06	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear
		500	21787	QH500T3/CL/7	120	12	C-8	8.80	4.81	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear
		1600	22691	QH1600T3/CL/7	240	12	C-8	19.80	15.88	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, Horizontal
		1600	22699	QH1600T3/CL/7	210	12	C-8	19.80	15.88	5000		2350			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, Horizontal
		2500	22837	QH2500T3/CL/7	460	12	C-8	28.80	24.88	5000		2400			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, Horizontal
T3	R7s	3650	10872	QH3650T3/CL/5	480	6	C-8	41.63	38.00	5000		2500			1a,2a,2b,3a,4f,5a,5b,9a,9d,10c,12b,12e	Infrared, Horizontal
Other																
T3	Ceramic Sleeve	2000	12716	QH2MT3/CL/HT/R	230	12	C-8	13.00	11.00	5000		2450			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, High Temp, Horizontal, Reflector 170°
T3	Sleeve	2000	15551	QH2MT3/1CL/HT/VB	240	12	C-8	11.90	9.60	500		2450			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, High Temp, Construction, Universal
	Wire Lead	2000	18668	QH2MT3/CL/VB	230	12	C-8	13.80	11.00	5000		2450			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, Universal
	Sleeve	2000	22790	QH2M/T3/CL/HT	225	12	C-8	18.80	10.00	5000		2450			1a,2a,2b,3a,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, High Temp, Construction, Horizontal
T3	Wire Lead	6000	23843	QH6MT3/CL/HT	480	12	C-8	11.90	9.70	100		3250			1a,2a,2b,4c,4d,4e,4f,4g,9a,9d,10b,10c,12b,12e	Infrared, Clear, High Temp, Horizontal

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Halogen Lamps

General Information

Halogen Lamp Operating Precautions

The lamps listed in this catalog are filled to high internal gas pressures to maximize lamp efficacy (lumens per watt). Some general cautions are given below.

High Operating Temperatures

Since operating temperatures are critical to the effective self-cleaning properties of halogen lamps, filament tube wall temperatures should not go below 482°F (250°C). Hot spots on the bulb wall itself can go as high as 1230°F (700°C) in normal operation.

Substantial heat is generated in all halogen lamps, so equipment design should make allowance for the dissipation of excessive heat. Certain lamps and extremely confined fixtures may require additional ventilation or heat sinking to ensure proper operation of the halogen cycle and to prevent damage to the fixture. It is a good practice to test the lamp in the operating environment early in the design cycle to ensure adequate performance. Precautions must be taken in the selection of materials for lampholders, reflectors and lamp housings because the 1230°F (700°C) bulb wall temperature is greater than the kindling temperature of many materials. Lamp base temperatures should not exceed 662°F (350°C) because, above that point, lead wires may deteriorate and the basing cement loosen, causing premature lamp failure.

Distribution of Spectral Radiation

Halogen lamps offer large amounts of visible and infrared energy from a small light source, with about 90% of the energy in the infrared. Some halogen lamps can be used for special applications where small amounts of ultraviolet energy are required. The slight ultraviolet radiation that comes from unprotected sources could cause skin and eye irritation following extended direct exposure. Passing the light through ordinary glass or plastic provides adequate protection. The lenses of the PAR, TAL or Cover Glass Precise™ lamps provide this protection.

Quartz Heat Lamps

GE standard quartz heat products are primarily pressurized halogen lamps. Many standard tungsten coil filaments have been converted to a deflection coil winding design that eliminates the need for filament supports through an integral coil/support construction. These changes will improve lamp life as well as keep the bulb wall cleaner during operation and throughout the life of the lamp.

In general, halogen lamps are more efficient than ordinary incandescent lamps. HIR™ lamps are the most efficient halogen lamps we offer. For each application, check life, lumens, wattage, beam spread and lamp dimensions to determine proper bulb selection.

GE has added a reflectorized heat lamp with a patented design that directs the infrared to a surface rather than in 360° angle.

Halogen Caution Notice – General

Halogen lamps are constructed of a glass bulb with a pressurized internal filament tube that operates at high temperatures and could unexpectedly shatter. Should the outer bulb break, particles of extremely hot glass could be discharged into the fixture enclosure and/or surrounding environment, thereby creating a risk of personal injury or fire.

Operating Notes

- Turn power off and let lamp cool before removal to avoid potential burn and electrical shock during lamp replacement
- Do not use lamp if outer glass is scratched or broken because it may break during installation or later during operation
- Do not use lamp in close proximity to combustible materials or those adversely affected by drying or fading action because of heat radiation in the lamp beam
- Dispose of removed lamp with care such as placing in used lamp carton or other closed container

Compact PAR Lamps (PAR20/30)

- Use outdoors in enclosed fixtures or where protected from exposure to water

Quartzline® PAR (250W)

- Avoid use where subjected to exposure to moisture which may cause lamp to break or shatter
- Do not operate lamp over 110% rated voltage. Overvoltage operation increases pressure and tendency to break.
- Use this lamp only in fixtures designed for Q250PAR38 lamps

Halogen A-Line (TB/H)

Caution: Cracked or broken bulbs that still light should be replaced immediately. The inner tube of the GE Halogen lamp is pressurized, operates at high temperature and could unexpectedly shatter with the possibility of property damage or personal injury. Avoid use in unstable table lamps, dispose of with care. To avoid burns, electricity should be switched off and the lamp allowed to cool for several minutes before removing from socket. Use outdoors only in enclosed fixtures or where protected from exposure to water.

Operating Notes – Low Voltage Lamps

Low voltage tungsten-halogen lamps are sensitive to voltage variations. Even a small change in voltage can have a considerable impact on lamp life. Designers should match fixture transformer ratings to actual line voltages to ensure that the lamps operate at as close to 12 volts as possible.

Rapid cycling can also shorten lamp life, and designers should take advice from their GE Lighting representative before using these lamps in flashing or blinking applications.

The lamps may be dimmed by reducing voltage. However, this may cause the bulbs to blacken. If this occurs the lamp should be run at full voltage for fifteen minutes, thereby clearing the problem. Note that the nature of low voltage lighting systems requires the use of fluorescent-type dimmers. Lamp can be operated on AC or DC currents.

Warning and Caution Notices

1

⚠ WARNING

Risk of electric shock

- **a.** Turn power off before inspection, installation or removal
- **b.** Turn power off if glass bulb is broken, even if bulb continues to light. Remove and dispose of lamp.
- **c.** Do not open. No user serviceable parts inside.

2

⚠ WARNING

Risk of fire

- **a.** Keep combustible materials away from lamp
- **b.** Use in fixture rated for this product
- **c.** Use in fixture rated for this product—see instructions
- **d.** Operate base down to horizontal only
- **e.** In table lamp use only with shade
- **f.** Do not use in enclosed fixture or with lamp shade
- **g.** Use in high intensity fixture rated for this product
- **h.** Do not use as a night light
- **i.** Burning position base down only
- **j.** Use in enclosed fixture rated for this product
- **k.** Fire Hazard! Do not use in Torchieres or other indoor residential fixtures

3

⚠ WARNING

Lamp emits IR radiation which may cause eye injury

- **a.** Avoid exposure of eyes and skin to unshielded lamp

4

⚠ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- **a.** Use eye protection when handling lamp
- **b.** Avoid direct water/liquid contact
- **c.** Use in enclosed fixture rated for this product
- **d.** Operate lamp only in specified position
- **e.** Do not touch glass with bare hands
- **f.** Do not use lamp if outer glass is scratched or broken
- **g.** Do not exceed 110% of rated voltage
- **h.** Do not use where directly exposed to water or outdoors without an enclosed fixture
- **i.** Do not exceed rated voltage
- **j.** Do not use lamp if outer jacket is scratched or broken, even if bulb continues to light. Turn power off, remove and dispose.
- **k.** Do not use in wet locations

5

⚠ WARNING

Unexpected lamp rupture may cause injury, fire, or property damage

- **a.** Do not touch glass with bare hands
- **b.** Operate lamp only in specified position
- **c.** Use in enclosed fixture rated for this product
- **d.** Do not use lamp if outer glass is scratched or broken
- **e.** Avoid direct water, liquid or metal contact

6

⚠ WARNING

Risk of burn

- **a.** Do not touch operating lamp

7

⚠ WARNING

A damaged lamp emits UV radiation which may cause eye/skin injury

- **a.** Turn power off if glass bulb is broken. Remove and dispose of lamp.

8

⚠ WARNING

Lamp emits UV radiation which may cause eye/skin injury.

- **a.** Avoid exposure of eyes and skin to unshielded lamp

9

⚠ CAUTION

Risk of burn

- **a.** Allow lamp to cool before handling
- **b.** Allow lamp/fixture to cool before handling
- **c.** Do not touch operating lamp
- **d.** Turn power off before installing lamp

10

⚠ CAUTION

Lamp may shatter and cause injury if broken

- **a.** Wear safety glasses and gloves when handling lamp
- **b.** Dispose of lamp in a closed container
- **c.** Do not use lamp if outer glass is scratched or broken

11

⚠ CAUTION

Lamp emits UV radiation which may cause eye/skin irritation.

- **a.** Minimize exposure

12

OP. INST.

- **a.** Burning position – base up
- **b.** Burning position – horizontal
- **c.** Burn base down only
- **d.** Burn base down to horizontal
- **e.** Limit seal temp to 650°F. Maintain min bulb wall temp of 500°F for operation of halogen cycle

Cross-Reference

GE Description	Osram/ Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps	
Halogen PAR Lamps		
60PAR16/H/SP10	60PAR16/CAP/NSP10	60PAR16/HAL/NSP10
60PAR16/H/FL30	60PAR16/CAP/NFL30	60PAR16/HAL/NFL27
75PAR16/H/SP10	75PAR16/CAP/NSP10	–
75PAR16/H/FL30	75PAR16/CAP/NFL30	–
50PAR20/H/SP10	50PAR20/CAP/SPL/NSP10	50PAR20/HAL/NSP9
50PAR20/H/FL25	50PAR20/CAP/SPL/NFL30	50PAR20/HAL/NFL30
50PAR30/H/SP10	50PAR30/CAP/SPL/NSP9	50PAR30S/HAL/NSP10
50PAR30/H/FL25	50PAR30/CAP/SPL/NFL25	50PAR30S/HAL/NFL30
50PAR30/H/FL35	50PAR30/CAP/SPL/FL40	50PAR30S/HAL/FL40
50PAR30L/H/SP10	50PAR30LN/CAP/SPL/NSP9	50PAR30L/HAL/NSP9
50PAR30L/H/FL40	50PAR30LN/CAP/SPL/NFL30	50PAR30L/HAL/NFL30
50PAR30L/H/WFL	50PAR30LN/CAP/SPL/WFL50	50PAR30L/HAL/WFL60
60PAR30/H/NSP9	60PAR30/CAP/SPL/NSP9	60PAR30S/HAL/NSP10
60PAR30/H/FL25	60PAR30/CAP/SPL/NFL25	60PAR30S/HAL/NFL30
60PAR30/H/FL35	–	60PAR30S/HAL/NFL40
75PAR30/H/SP10	75PAR30/CAP/SPL/NSP9	75PAR30S/HAL/NSP10
75PAR30/H/FL25	75PAR30/CAP/SPL/NFL25	75PAR30S/HAL/NFL30
75PAR30/H/FL35	75PAR30/CAP/SPL/FL40	75PAR30S/HAL/FL40
75PAR30L/H/SP10	75PAR30LN/CAP/NSP9	75PAR30L/HAL/NSP9
75PAR30L/H/FL25	75PAR30LN/CAP/NFL25	75PAR30L/HAL/NFL30
75PAR30L/H/WFL	75PAR30LN/CAP/WFL40	75PAR30L/HAL/FL40
45PAR/H/SP10	45PAR/CAP/SPL/SP9	45PAR38/HAL/SP12/LL
45PAR/H/FL25	45PAR/CAP/SPL/FL30	45PAR38/HAL/FL28/LL
50PAR/H/SP10	50PAR38/HAL/SP9	–
50PAR/H/FL25	50PAR38/HAL/FL30	–
60PAR/H/SP10	60PAR/CAP/SPL/SP10	60PAR38/HAL/NSP10/WLL
60PAR/H/FL25	60PAR/CAP/SPL/NSL25	60PAR38/HAL/FL28/WLL
75PAR/H/NSP9	75PAR/CAP/SPLSP9	75PAR38/HAL/SP10/WLL
75PAR/H/FL25	75PAR/CAP/SPL/FL30	75PAR38/HAL/FL28/WLL
90PAR/H/SP10	90PAR/CAP/SPL/SP9	90PAR38/HAL/SP12/LL
90PAR/H/FL25	90PAR/CAP/SPL/FL30	90PAR38/HAL/FL28/LL
90PAR/H/WFL	90PAR/CAP/SPL/WFL50	90PAR38/HAL/WFL60/WLL
100PAR/H/SP10	100PAR38/HAL/SP9	–
100PAR/H/FL25	100PAR38/HAL/FL30	–
120PAR/H/SP9	120PAR/CAP/SPL/SP10	–
120PAR/H/FL30	120PAR/CAP/SPL/FL30	–
Halogen HIR™ PAR Lamps		
45PAR30/HIR/SP9XL	–	45PAR30/IRC/HAL/SP10
45PAR30/HIR/FL25XL	–	45PAR30/IRC/HAL/FL25
45PAR30/HIR/FL35XL	–	45PAR30/IRC/HAL/FL40
50PAR30/HIR/SP9	50PAR30/CAP/IR/NSP9	50PAR30S/IRC/NSP10
50PAR30/HIR/FL25	50PAR30/CAP/IR/NFL25	50PAR30S/IRC/NFL30
50PAR30/HIR/FL35	50PAR30/CAP/IR/FL40	50PAR30S/IRC/FL40
Halogen HIR™ PAR38 Lamps		
45PAR/HIR/FL40XL	–	45PAR38/IRC/WFL
45PAR/HIR+/SR10	–	–
45PAR/HIR+/FL25	–	–
48PAR/HIR+/SP10	–	–
48PAR/HIR+/FL25	–	–
50PAR/HIR/SP6	–	–
50PAR/HIR/SP9	50PAR38/CAP/IR/SP9	50PAR38/IRC/SP10
50PAR/HIR/FL25	50PAR38/CAP/IR/NFL25	50PAR38/IRC/FL25
50PAR/HIR/S/SP10	–	–
50PAR/HIR/S/FL25	–	–
55PAR/HIR+/SP10	–	–
55PAR/HIR+/FL25	–	–
60PAR/HIR/SP10	60PAR38/CAP/IR/SP9	60PAR38/IRC/SP12
60PAR/HIR/FL30	60PAR38/CAP/IR/FL30	60PAR38/IRC/FL25
60PAR/HIR/FL40	–	60PAR38/IRC/HAL/FL40
60PAR/HIR/S/SP10	–	–

GE Description	Osram/ Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps	
Halogen HIR™ PAR38 Lamps (continued)		
60PAR/HIR/S/FL25	–	–
60PAR/HIR+/SP10	–	–
60PAR/HIR+/FL25	–	–
67PAR/HIR+/SP10	–	–
67PAR/HIR+/FL25	–	–
70PAR/HIR/SP10	–	70PAR38/IRC/HAL/SP10
70PAR/HIR/FL25	–	70PAR38/IRC/HAL/FL25
80PAR/HIR/SP10	80PAR/CAP/IR/SP10	–
80PAR/HIR/SP12	80PAR/CAP/IR/SP12	–
80PAR/HIR/FL25	80PAR/CAP/IR/FL25	–
83PAR/HIR+/SP10	–	–
83PAR/HIR+/FL25	–	–
90PAR/HIR/SP12XL	–	–
90PAR/HIR/FL40XL	–	–
100PAR/HIR/SP10	100PAR/CAP/IR/SP10	100PAR38/IRC/SP10
100PAR/HIR/FL25	100PAR/CAP/IR/NFL25	100PAR38/IRC/FL25
100PAR/HIR/FL40	100PAR/CAP/IR/FL40	100PAR38/IRC/WFL
Halogen MR11 Lamps		
Q20MR11/SP15	20MR11/SP10/FTB	20MRC11/SP10
Q20MR11/NFL30	20MR11/FL35/FTD	20MRC11/FL30
Q35MR11/NSP20	35MR11/SP10/FTE	–
Q35MR11/NFL30	35MR11/FL40/FTH	35MRC11/FL30
Halogen Standard MR16 Lamps		
Q20MR16/SP	20MR16/NSP8/ESX	20MRC16/SP10
Q20MR16/FL	20MR16/FL40/BAB	20MRC16/FL36
Q50MR16/SP	50MR16/NSP12/EST	50MRC16/SP10
Q50MR16/FL	20MR16/FL40/EXN	50MRC16/FL38
Halogen ConstantColor® Precise™ MR16 Lamps		
Q20MR16/C/VNSP7	20MR16/T/NSP/10	20MRC16/CC/SP10
Q20MR16/C/NSP15	–	20MRC16/CC/NFL24
Q20MR16/C/FL40	20MR16/T/NFL40	20MRC16/CC/FL38
Q35MR16/C/SP20	35MR16/T/NFL25	–
Q35MR16/C/FL40	35MR16/T/FL40	–
Q42MR16/C/VNSP9	50MR16/T/NSP10	–
Q50MR16/C/NSP15	–	50MRC16/CC/SP10
Q50MR16/C/NFL25	50MR16/T/NFL25	50MRC16/CC/NFL24
Q50MR16/C/NFL30	–	–
Q50MR16/C/FL40	50MR16/T/FL40	50MRC16/CC/NFL38
Q50MR16/C/WFL55FNV	50MR16/T/WFL60	–
Q71MR16/C/NSP15	65MR16/T/NSP10	–
Q71MR16/C/NFL25	65MR16/T/NFL25	–
Q71MR16/C/FL40	65MR16/T/FL40	–
Halogen HIR™ MR16 Lamps		
Q20MR16/HIR/CG10	20MR16/IR/SP10/C	20MRC16/IRC/ALW/SP8
Q20MR16/HIR/CG25	20MR16/IR/NFL25/C	–
Q20MR16/HIR/CG35	20MR16/IR/FL35/C	20MRC16/IRC/ALW/FL36
Q37MR16/HIR/CG10	37MR16/IR/NSP10C	35MRC16/IRC/SP8
Q37MR16/HIR/CG25	37MR16/IR/NFL25C	35MRC16/IRC/NFL24
Q37MR16/HIR/CG40	37MR16/IR/FL40C	35MRC16/IRC/FL36
Q50MR16/HIR/CG10	50MR16/IR/NSP10C	45MRC16/IRC/SP8
Q50MR16/HIR/CG25	50MR16/IR/NFL25C	45MRC16/IRC/NFL24
Q50MR16/HIR/CG40	50MR16/IR/FL40C	45MRC16/IRC/FL36
Halogen Bi-Pin Low Voltage		
Q5T3/CL	5T3Q/CL	5W12V/Capsule
Q10T3/CL	10T3Q/CL	10W12V/Capsule
Q20T3/CL	20T3Q/CL/AX	20W12V/Capsule
Q35T3/CL	35TQ/CL/AX	35W12V/Capsule
Q50T3/CL	50T4Q/CL	50W12V/Capsule
Q75T4/CL	75T4Q/CL/RP	

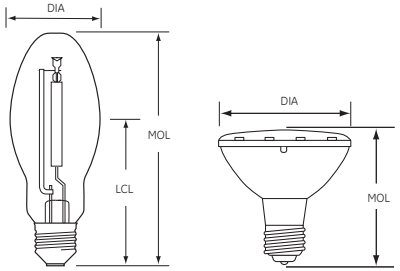
Cross-Reference (continued)

GE Description	Osram/ Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps	
Halogen Single-Ended		
Q100CL/DC	100Q/CL/DC	100Q/CL/DC
Q100CL/MC	100Q/CL/MC	100Q/CL
Q100DC	100Q/DC	–
Q150CL/DC/2V	150Q/CL/DC/1	–
Q150CL/DC	150Q/CL/DC	150Q/CL/DC
Q150CL/MC	150Q/CL/MC/2	150Q/CL
Q150CL/MC/2V	150Q/CL/MC	–
Q150DC	150Q/DC	150Q/DC
Q150MC	150Q/MC	150Q
Q250CL/DC	250Q/CL/DC	250Q/CL/DC
Q250CL/MC	250Q/CL/MC/2	250Q/CL
Q250DC	250Q/DC	–
Q250MC	250Q/MC	–
Halogen Double-Ended		
Q100T3/CL/CD	100T3Q/CL	BC100T3Q/CL/TP
Q150T3/CL	150T3Q/CL	BC100T3Q/CL/TP
Q300T3/CL	300T3Q/CL	300T3Q/P/CL
Q500T3/CL	500T3Q/CL	500T3Q/P/CL

High Intensity Discharge Lamps

High Intensity Discharge Lamps

Bulb Identification



DIA: Diameter of bulb at widest point.

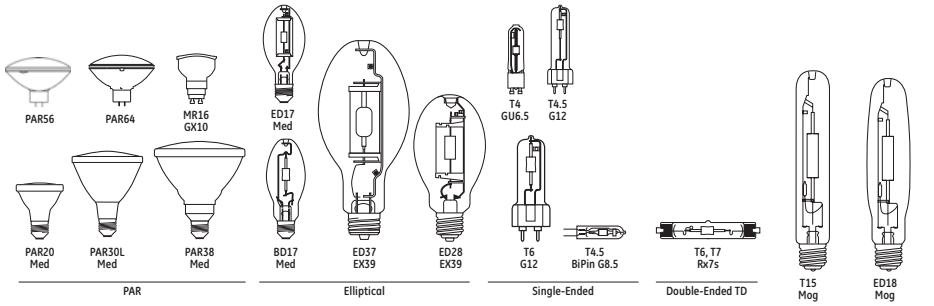
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

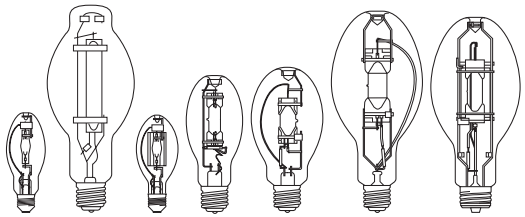
To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

Lamp Locator

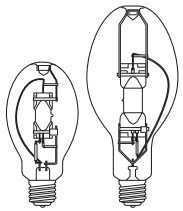


ConstantColor® CMH® Ceramic Metal Halide

CMH® Chromafit™ Ceramic Metal Halide (HPS Retrofit Lamps)

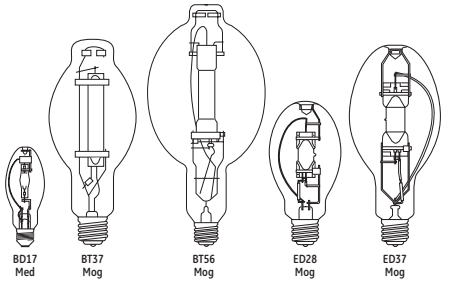


PulseArc® Multi-Vapor® Metal Halide Lamps

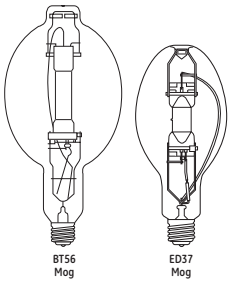


Chromafit™ Multi-Vapor® Metal Halide Lamps (HPS Retrofit Lamps)

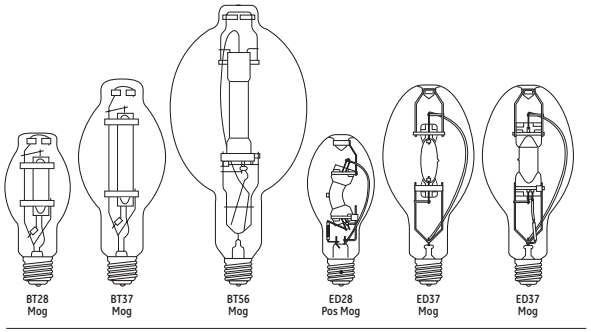
Lamp Locator (continued)



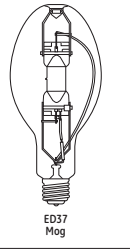
Multi-Vapor® Metal Halide Lamps



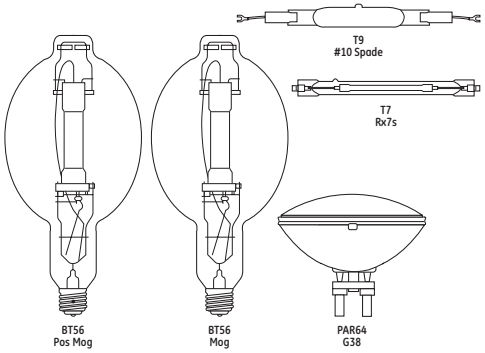
I-Line Multi-Vapor® Metal Halide Lamps (Mercury Retrofit Lamps)



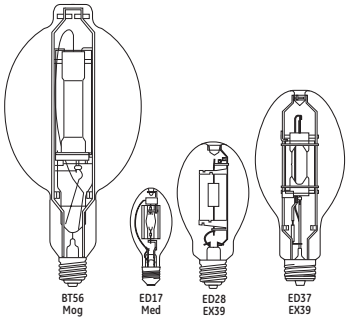
High Output and XHO Multi-Vapor® Metal Halide Lamps



Saf-T-Gard® Self-Extinguishing Multi-Vapor® Lamps

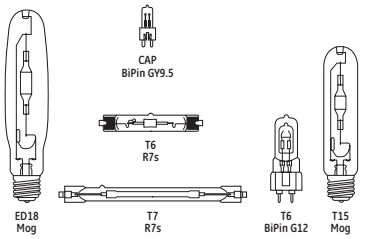


Sportslighting

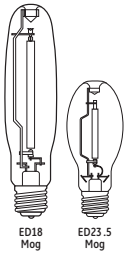


Protected Multi-Vapor® Metal Halide Lamps

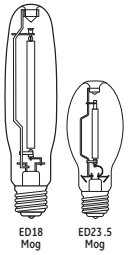
Lamp Locator (continued)



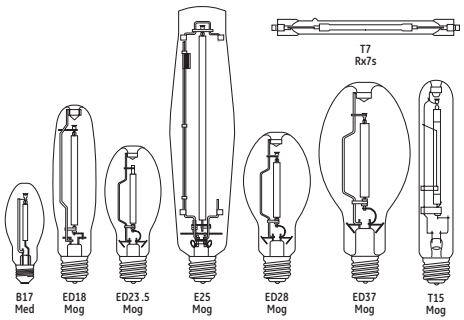
Arcstream® Metal Halide Lamps



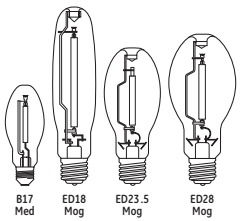
Ecolux® NC Non-Cycling High Pressure Sodium Lamps (TCLP Compliant)



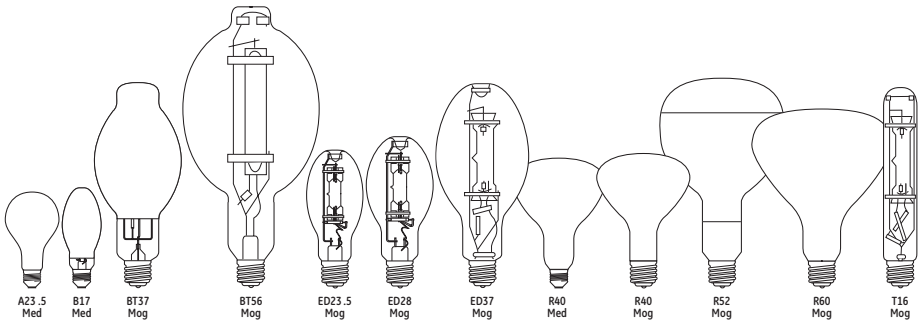
Ecolux® High Pressure Sodium Lamps (TCLP Compliant)



Lucalox® High Pressure Sodium Lamps

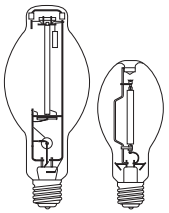


Deluxe Lucalox® High Pressure Sodium Lamps

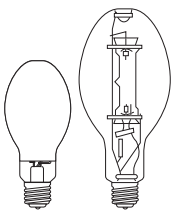


Mercury Lamps

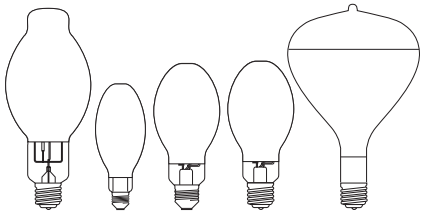
Lamp Locator (continued)



E-Z Lux® High Pressure Sodium Lamps (Mercury Retrofit)

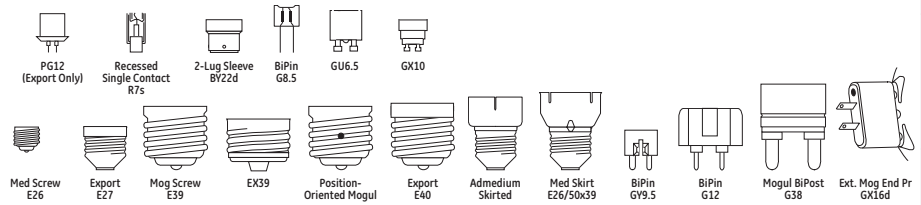


Saf-T-Gard® Mercury Lamps



E-Z Merc® Self-Ballasted Lamps (Incandescent Retrofit)

Base Identification



Introduction

GE HID lamps provide the following benefits:

High Efficacy/Low Operating Cost.
HID is generally the most efficient light source. Better efficiency almost always means lower operating cost.

Long Life.
Most HID lamps have life ratings that are better than incandescent lamps and similar to fluorescent lamps.

Compact Size.
An HID lamp produces high light output from a relatively compact source. Like incandescent, it is a "point" light source, which allows for good optical control.

The chart at right shows how HID lamps compare to incandescent, halogen, and fluorescent in terms of efficiency and rated life. Efficiency is measured in lumens per watt (LPW). Rated life for most lamp types is the number of burning hours when 50% of the tested samples have failed and 50% are still operational. For both HID and fluorescent, lamp life depends on the number of hours per start.

The combination of high efficiency and long life makes HID an ideal light source for many commercial and industrial applications.

Typical Lamp Characteristics		
Lamp Type	**Typical LPW**	**Rated Life (in hours)**
Incandescent	5-22	750-2000
Halogen	12-36	2,000-6000
Compact Fluorescent	27-80	9,000-20,000
Fluorescent	75-100	5,000-36,000
Mercury	50-60	12,000-24,000+
ConstantColor® CMH®	80-95	10,000-20,000
Multi-Vapor® Metal Halide	80-115	10,000-20,000
Lucalox® High Pressure Sodium	90-140	10,000-40,000

Suggested Color Applications for HID Lamps

CMH®: Stores, people places, display, accent.

MVR: Stores, public spaces, industrial, gymnasiums, floodlighting signs and buildings, parking areas, sports.

MVR/C: Same as MVR – warmer color-diffuse coating reducing glare.

MVR/SP30: Same as MVR–warmer than MVR or MVR/C – matches SP30 fluorescent.

MXR: Warm color (3200K) – good match for halogen.

LU: Street lighting, parking areas, industrial, floodlighting, security, CCTV.

LU/DX: Floodlighting, parking areas, indoor/outdoor pedestrian malls, industrial, security, roadway.

Deluxe (DX) Mercury: Stores, public spaces – metal halide lamps however, are preferred.

Clear Mercury: Landscape lighting, specialized floodlighting such as green copper roofs.

High Intensity Discharge Lamps

Product Information

GE ConstantColor® CMH® Ceramic Metal Halide Lamps (pgs 3-9 to 3-11)

- Color uniformity lamp-to-lamp and over lamp life
- Excellent color rendering (80+ CRI, 90+ CRI for SPXX versions)
- Delivers more light than standard metal halide (10%–20% more)
- Lamp operates at high efficacy—up to 95 lumens per watt
- Many are universal burn—may be operated in any position
- Perfect for retail and commercial display lighting, accent and floodlighting, lobby and foyer lighting. Ideal for "people places"

GE CMH® Chromafit™ Ceramic Metal Halide Lamps (pg 3-11)

- Convert High Pressure Sodium sockets to crisp, white ceramic metal halide light (80+ CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Universal burn—may be operated in any position
- Uses: Area lighting, industrial and "people places"
- Enclosed glass fixtures only

GE PulseArc® Medium Based Metal Halide Lamps (/MED models) (pg 3-11)

- Low wattage metal halide lamps (formerly Halarc®) are now part of the PulseArc® family
- Compact source
- Sparkling white light (3000-4000K) and very good color rendition (70-75 CRI)
- High efficacy—more than 3 times the lumens per watt of incandescent
- Long life—up to 15 times longer than incandescent systems and up to 7 times longer than most PAR and R systems, saving maintenance and labor costs
- Superior optical control
- Uses: Display lighting, downlighting, floodlighting, corridors, lobbies, walkways; retail, office, commercial

GE PulseArc® Multi-Vapor® Metal Halide Lamps (/PA Models) (pg 3-11 to 3-12)

- Designed for operation only on approved ballasts with metal halide pulse ignitors
- More light—400W lamps provide highest initial and highest maintained lumens versus other standard universal or vertical base-up lamp options
- 50% longer life—400W lamps provide 30,000 hours life when burned on 120 hour on/1 hour off cycle (approximately continuous)
- Faster hot restrike—less than 4 minutes versus 10-15 minutes for typical metal halide lamps

GE Multi-Vapor® Metal Halide Lamps (pgs 3-12 to 3-13)

- Sparkling white light (3000-4000K) and very good color rendition (65-75 CRI)
- Warm, rich 3000K color of SP30 blends well with incandescent, halogen and triphosphor fluorescent lamps for interior retail applications
- High efficacy—more efficient than incandescent, mercury and most fluorescent sources
- Long life—10,000-20,000 hours for most types
- Full line, 150-1000 watts, to meet most application needs
- Uses: Downlighting, floodlighting, corridors, lobbies, walkways; retail, commercial, industrial

GE High Output Multi-Vapor® Lamps (pg 3-13)

- More light—optimized for higher light output in horizontal, vertical base-up and base-down burn applications
  - Horizontal burn lamps provide up to 25% more light than standard universal burn equivalents
  - 400W vertical burn lamps provide up to 22% more light than standard universal burn equivalents; the highest lumen lamps available for operation on standard M59 ballasts
- Longer life—horizontal burn lamps last up to 67% longer than universal burn lamp equivalents, significantly reducing replacement lamp and maintenance costs

GE Protected High Output Multi-Vapor® Lamps (/O) (pg 3-14)

- Protective quartz jacket surrounds the arc tube
- The/O suffix and/or the "MPR" prefix in the Lamp Description indicates lamps are suitable for open fixture applications

GE ChromaFit™ Multi-Vapor® Lamps (/R) (pg 3-14)

- Convert high pressure sodium sockets to crisp white metal halide light (65-70 CRI)
- Operate on standard HPS ballasts and auxiliary equipment
- Uses: Area lighting, industrial and "people places"

GE I-Line Multi-Vapor® Lamps (pg 3-14 to 3-15)

- Convert mercury sockets to crisp, white metal halide light
- More light, better color, energy cost savings for mercury users
- 40%-100% more light than existing mercury lamps
- Operate on standard CW and CWA mercury ballasts and auxiliary equipment

GE Saf-T-Gard® Multi-Vapor Lamps (MVT) (pg 3-15)

- Special self-extinguishing feature prevents exposure to UV in case outer bulb is punctured or broken; lamp turns off within 15 minutes
- Meets requirements of Federal Standard 21CFR1040.30
- Saf-T-Gard® I-Line lamps convert mercury sockets to crisp, white metal halide light
- Saf-T-Gard® I-Line lamps operate on standard mercury ballasts and auxiliary equipment
- Uses: Industrial, commercial, gymnasiums, sports complexes, especially where open fixtures are used and risk of outer bulb breakage is possible

GE Arcstream® Metal Halide Lamps (pg 3-15)

- Compact size, white light, excellent color
- Precise optical control delivers a concentrated beam of light right where it's needed
- Variety of color temperatures (3,000K-6,000K)
- PAR64: ideal for long-range projection and sports lighting applications
- Uses: Ideal for retail and commercial display lighting, floodlighting, accent/highlighting

GE Lucalox® High Pressure Sodium Lamps (pg 3-15)

- Very high efficacy/low operating cost
- Excellent lumen maintenance—over 90% @ 50% of life
- Very long life—24,000+ hours
- Universal burn—can be operated in any position without affecting performance
- Warm color
- For open or enclosed fixtures
- Uses: Industrial, roadway, security, floodlighting

GE Double-Ended Lucalox® Lamps (/TD) (pg 3-15)

- Compact tubular design fits compact fixtures for excellent optical control
- High efficacy, lumen maintenance and long life of standard Lucalox® HPS

GE Ecolux® High Pressure Sodium Lamps (/ECO) (pgs 3-15 to 3-16)

- Lead-free base. Passes TCLP, which can lower disposal costs.

GE Standby Longlife Lucalox® Lamps (/SBY) (pgs 3-16 to 3-17)

- Extra arc tube provides light instantly after momentary power interruption, and will increase to 80% light output in 1-2 minutes
- Dual arc tubes provide 40,000 hour rated life
- Operates on standard HPS ballasts and auxiliary equipment
- Uses: Industrial, roadway, security, and hard-to-reach sockets

GE Ecolux® NC "Non-Cycling" High Pressure Sodium Lamps (/ECO/NC) (pg 3-17)

- Low mercury. Passes TCLP, which can lower disposal costs.
- Non-cycling feature makes locating and replacing end-of-life lamps quick and easy
- Lead-free base
- High efficacy/low operating cost
- 6%-11% higher initial lumens than standard HPS in 100W and 400W versions
- Long life—30,000 hours
- Open or enclosed fixtures
- Uses: Industrial, roadway, security

GE Deluxe Lucalox® High Pressure Sodium Lamps (pg 3-17)

- High efficacy, lumen maintenance and long life of standard Lucalox® HPS
- High color rendering (65-70CRI), much better than standard HPS
- Blends well with incandescent and standard HPS sources
- Operates on standard HPS ballasts and auxiliary equipment
- Uses: Storage rooms, industrial facilities, offices, gymnasiums, malls, parks, building floodlighting

GE E-Z Lux® High Pressure Sodium Lamps (pg 3-17)

- Direct replacement for mercury lamps on mercury ballasts
- More efficient, 57-114% more lumens and 10-14% fewer watts than mercury lamps they replace
- Uses: General lighting, roadway
- See operating notes for further information

GE Mercury Lamps (pgs 3-17 to 3-18)

- Long life and good efficacy
- Phosphor coated Deluxe lamps provide good color rendering (50CRI)
- Uses: Industrial, roadway, landscapes, residential and commercial security, parking lots

GE Saf-T-Gard® Mercury Lamps (pg 3-18)

- Special self-extinguishing feature prevents exposure to harmful UV in case outer bulb is punctured or broken; lamp turns off within 15 minutes
- Meets requirements of Federal Standard 21 CFR 1040.30
- See operating notes for further information

GE E-Z Merc® Self-Ballasted Mercury Lamps (pg 3-18)

- Retrofit incandescent sockets to longer-life mercury lamps without additional mercury ballasts or auxiliary equipment

GE Export Base Lamps (pg 3-18)

- Export-only lamps are not sold or intended for use in North America. The lamps are identified by "/27" or "/40" at the end of the lamp description, and comply with electrical characteristics defined by IEC standards.
- Bulb shapes are generally similar to U.S. lamp types. Refer to drawings on pages 3-2 to 3-5.

High Intensity Discharge Lamps

HID Brand Name Cross-Reference

GE	OSRAM/SYLVANIA	PHILIPS
Arcstream® MQI	BRITE-LINE™, HQI®	MHN-TD
ChromaFit™ Multi-Vapor®	—	—
ConstantColor® CMH®	Powerball® MCP	MasterColor® CDM
Deluxe Lucalox®	—	Ceramalux™ Comfort
E-Z Lux®	Unalux®	Ceramalux™ Retrolux
E-Z Merc®	—	Self-Ballasted Mercury
Ecolux®	Lumalux ECO®	Ceramalux Alto®
Ecolux® NC	Lumalux Plus™/ECO®	Ceramalux Alto® Plus
High Output Multi-Vapor®	Super Metalarc®	Metal Halide
Horizontal Multi-Vapor®	Super Metalarc®	—
I-Line Multi-Vapor®	—	—
Lucalox®	Lumalux®	Ceramalux™
Multi-Vapor®	Metalarc®	Metal Halide
Protected High Output Multi-Vapor®	Metalarc® Pro-Tech™	—

GE	OSRAM/SYLVANIA	PHILIPS
PulseArc®	Super Metalarc® Pulse Start	Pulse Start
Saf-T-Gard® Mercury	Mercury Safeline®	Safety Lifeguard Mercury
Saf-T-Gard® Multi-Vapor®	Metalarc® Safeline®	Safety Lifeguard Metal Halide
Standby Longlife Lucalox®	Lumalux® Standby	Instant Restrike Ceramalux™
Watt-Miser® Multi-Vapor®	Metalarc® Supersaver®	—

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

Headings in this catalog section

The following terms and descriptions can help you when checking High Intensity Discharge lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these wattage groups, lamps are listed by bulb shape.

Bulb Shape: Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Energy Used – Nominal Watts: Energy Used (as defined by FTC Lamp Label Rules). To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000.

Mean Lumens: Lamp light output (lumens) at 40% of rated lamp life for Metal Halide lamps and 50% of rated life for Mercury and HPS lamps.

LET (Lamp Enclosure Type): Describes fixture requirements for this lamp.

CBCP (Center Beam Candlepower): For reflector-type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam. Used only for ConstantColor® CMH® Metal Halide Lamps.

Color Temperature Kelvins (K): A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears.

OP (Operating Position)

LCL (in): Distance between the center of the filament and the Light Center Length reference plane, in inches.

Case Qty: Number of product units packed in a case.

Color Rendering Index (CRI): An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

Order Code: It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

ANSI Ballast Type: Ballast type used to operate lamp.

Initial Lumens: Initial light output.

Additional Information: Typical application and/or other important information.

MOL (in): Maximum Overall Length in inches.

Rated Life (hours): Lamp burning hours to median life expectancy.

Footnotes: See page 3-20.

Base: The type of base.

Description: The lamp's identification code.

Warning and Caution Notices: See page 3-21.

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Footnotes	Warning and Caution Notices
Constant Color CMH® Metal Halide Lamps																			
CMH® MR16																			
MR16	GX10	O	U	20	2.28		85101	CMH20MR16/830/SP	M156	12	9000	12000	1000		3000	81	12 Spotlight, UV control	33,39,51	107

CMH20MR16 / 830 / SP

- CMH20MR16: Identifies as CMH® lamp.
- 20: Identifies the lamp's wattage.
- MR16: Identifies the bulb shape.
- 830: Color temp. and CRI.
- SP: Additional information.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using illustrations on pages 3-2 to 3-5.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 3-5.
4. Find your lamp in the tabular data containing the bulb shape, size and base, which are all listed by wattage.

For the most up-to-date product information, see www.gelighting.com.

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
Constant Color CMH® Metal Halide Lamps																				
CMH® MR16																				
MR16	GX10	O	U	20	2.28		85101	CMH20MR16/830/SP	M156	12	9000	12000	1000		3000	81	12 Spotlight, UV Control		33,39,51	107
		O	U	20	2.28		85110	CMH20MR16/830/FL	M156	12	2900	12000	1000		3000	81	25 Floodlight, UV Control		33,39,51	107
		O	U	20	2.28		97638	CMH20MR16/830WFL	M156	12	1500	12000	1000		3000	81	40 Wideflood, UV Control		33,39,51	107
		O	U	39	2.28		71488	CMH39MR16/930/SP	M130	12	16000	10000	2100		3000	90	12 Spotlight, UV Control		33,39,51	107
		O	U	39	2.28		71489	CMH39MR16/930/FL	M130	12	5500	10000	2100		3000	90	25 Floodlight, UV Control		33,39,51	107
		O	U	39	2.28		71490	CMH39MR16/930WFL	M130	12	3000	10000	2100		3000	90	40 Wideflood, UV Control		33,39,51	107
		O	U	39	2.28		17491	CMH39MR16/942/SP	M130	12	16000	12000	2100		4000	92	12 Spotlight, UV Control		33,39,51	107
		O	U	39	2.28		71492	CMH39MR16/942/FL	M130	12	5500	12000	2100		4000	92	25 Floodlight, UV Control		33,39,51	107
		O	U	39	2.28		71493	CMH39MR16/942WFL	M130	12	3000	12000	2100		4000	92	40 Wideflood, UV Control		33,39,51	107
CMH® PAR																				
PAR20	E26	O	U	20	3.60		29485	CMH20PAR20/SP	M156	15	13000	12000	1000		3000	81	8 Spotlight, UV Control		33,39,51	107
		O	U	20	3.60		29486	CMH20PAR20/FL	M156	15	3750	12000	1000		3000	81	25 Floodlight, UV Control		33,39,51	107
PAR30L	E26	O	U	20	4.75		29487	CMH20PAR30/SP10	M156	6	19800	12000	1200		3000	81	10 Spotlight, UV Control		33,39,51	107
		O	U	20	4.75		29488	CMH20PAR30/SP15	M156	6	14500	12000	1200		3000	81	15 Spotlight, UV Control		33,39,51	107
		O	U	20	4.75		29489	CMH20PAR30/FL25	M156	6	4900	12000	1200		3000	81	25 Floodlight, UV Control		33,39,51	107
PAR20	E26	O	U	39	3.60		42068	CMH39UPAR20FL25	M130	15	7500	10000	2100		3000	86	25 Floodlight, UV Control		33,39,45	107
		O	U	39	3.60		42069	CMH39UPAR20SP10	M130	15	22000	10000	2100		3000	86	10 Spotlight, UV Control		33,39,45	107
		O	U	39	3.60		96526	CMH39PAR20/NSP4K	M130	15	19450	10000	1950		4200	90	10 Spotlight, UV Control		33,39,45	107
		O	U	39	3.60		96527	CMH39PAR20/FL4K	M130	15	6950	10000	1950		4200	90	25 Floodlight, UV Control		33,39,45	107
PAR30L	E26	O	U	39	4.75		42066	CMH39PAR30L/SP15	M130	6	29000	10000	2400		3000	81	15 Spotlight, UV Control		33,39,45	107
		O	U	39	4.75		42067	CMH39PAR30L/FL25	M130	6	11000	10000	2400		3000	81	25 Floodlight, UV Control		33,39,45	107
		O	U	39	4.75		45066	CMH39/PAR30LSP10	M130	6	39600	10000	2400		3000	81	10 Spotlight, UV Control		33,39,45	107
		O	U	39	4.75		96528	CMH39PAR30LNSP4K	M130	6	36700	10000	2225		4200	89	10 Spotlight, UV Control		33,39,45	107
		O	U	39	4.75		96529	CMH39PAR30L/SP4K	M130	6	26900	10000	2225		4200	89	15 Spotlight, UV Control		33,39,45	107
		O	U	39	4.75		96530	CMH39PAR30L/FL4K	M130	6	10200	10000	2225		4200	89	25 Floodlight, UV Control		33,39,45	107
		O	U	70	4.75		22152	CMH70PAR30L830SP	M139/ M98	6	43000	13000	4700		3000	82	15 Spotlight, UV Control		33,39,45	107
		O	U	70	4.75		22159	CMH70PAR30L830FL	M139/ M98	6	10000	13000	4700		3000	82	40 Floodlight, UV Control		33,39,45	107
PAR38	E26	O	U	70	5.31		45675	CMH70PAR38SP/ECO	M143/ M98	6	40000	10000	4800		3000	82	15 Spotlight, UV Control		33,39	108
		O	U	70	5.31		45677	CMH70PAR38FL/ECO	M143/ M98	6	14000	10000	4800		3000	82	25 Floodlight, UV Control		33,39	108
		O	U	70	5.31		45679	CMH70PAR38WF/ECO	M143/ M98	6	4400	10000	4800		3000	82	60 Wide Floodlight, UV Control		33,39	108
		O	U	100	5.31		45680	CMH100PAR38SPECO	M140/ M90	6	45000	10000	6500		3000	81	15 Spotlight, UV Control		33,39	108
		O	U	100	5.31		45681	CMH100PAR38FLECO	M140/ M90	6	15000	10000	6500		3000	81	25 Floodlight, UV Control		33,39	108
		O	U	100	5.31		45682	CMH100PAR38WFECO	M140/ M90	6	5500	10000	6500		3000	81	60 Wide Floodlight, UV Control		33,39	108
PAR56	GX16D	E	U	150	5.00		88517	CMH150/PAR56/ WFL/942	M102/ M142	6	17000	5000			4200	90	Wide Flood		33,39	108
		E	U	150	5.00		88518	CMH150/PAR56/ MFL/942	M102 M142	6	40000	5000			4200	90	Medium Flood		33,39	108
		E	U	150	5.00		88519	CMH150/PAR56/ SP/942	M102/ M142	6	85000	5000			4200	90	Spot		33,39	108
		E	U	150	5.00		88520	CMH150/PAR56/ WFL/830	M102/ M142	6	17000	5000			3000	80	Wide Flood		33,39	108

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes, warning and caution notices found at the end of this section (page 3-20).

High Intensity Discharge Lamps

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
Constant Color CMH® Metal Halide Lamps (continued)																				
CMH® PAR (continued)																				
PAR56	GX16D	E	U	150	5.00		88521	CMH150/PAR56/ MFL/830	M102/ M142	6	40000	5000			3000	80	Medium Flood		33,39	108
		E	U	150	5.00		88522	CMH150/PAR56/ SP/830	M102/ M142	6	85000	5000			3000	80	Spot		33,39	108
PAR64	GX16D	E	U	150	6.42		88541	CMH150/PAR64/ WFL/942	M102/ M142	6	16000	8000			4200	90	Wide Flood		33,39	108
		E	U	150	6.42		88542	CMH150/PAR64/ MFL/942	M102/ M142	6	47000	8000			4200	90	Medium Flood		33,39	108
		E	U	150	6.42		88543	CMH150/PAR64/ SP/942	M102/ M142	6	154000	8000			4200	90	Spot		33,39	108
		E	U	150	6.42		88544	CMH150/PAR64/ WFL/830	M102/ M142	6	16000	8000			3000	80	Wide Flood		33,39	108
		E	U	150	6.42		88537	CMH150/PAR64/ MFL/830	M102/ M142	6	47000	8000			3000	80	Medium Flood		33,39	108
		E	U	150	6.42		88545	CMH150/PAR64/ SP/830	M102/ M142	6	154000	8000			3000	80	Spot		33,39	108
CMH® Elliptical																				
BD17	E26	E	U	70	5.43	3.37	22119	CMH70/U/830/MED	M139/ M98/ C98	6		15000	6300	4100	3000	80	Clear		33	116
		E	U	70	5.43	3.37	22124	CMH70/C/U/830MED	M139/ M98/ C98	6		15000	6000	4000	3000	80	Coated		33	116
		E	U	100	5.43	3.37	22127	CMH100/U/830/MED	M140/ M90	6		10000 V 15000 H	9200	6600 V 6400 H	3000	83	Clear		33	116
		E	U	100	5.43	3.37	22137	CMH100/C/U830MED	M140/ M90	6		10000 V 15000 H	8700	6300	3000	83	Coated		33	116
CMH® Elliptical Open-Rated																				
ED17	E26	O	U	70	5.43	3.37	31069	CMH70U830MED/O	M143/ M98/ C98	6		15000	5700	4100	3000	80	Clear		33	106
		O	U	70	5.43	3.37	31070	CMH70CU830MED/O	M143/ M98/ C98	6		15000	5700	4100	3000	80	Coated		33	106
		O	U	70	5.43	3.37	31073	CMH70U942MED/O	M143/ M98/ C98	6		15000	5500	4200	4000	90	Clear		33	106
		O	U	70	5.43	3.37	31074	CMH70CU942MED/O	M143/ M98/ C98	6		15000	5200	4000	4000	90	Coated		33	106
		O	U	150	5.43	3.37	31065	CMH150U830MED/O	M102/ M142	6		12000	12900	9500	3000	80	Clear		33	106
		O	U	150	5.43	3.37	31066	CMH150CU830MED/O	M102/ M142	6		12000	11900	8800	3000	80	Coated		33	106
		O	U	150	5.43	3.37	31067	CMH150U942MED/O	M102/ M142	6		15000	12000	9000	4200	90	Clear		33	106
		O	U	150	5.43	3.37	31068	CMH150CU942MED/O	M102/ M142	6		15000	11000	8300	4200	90	Coated		33	106
CMH® Single-Ended G12 ULTRA																				
T6	G12	E	U	70	3.56	2.18	73056	CMH70U930G12ULR	C139/ M139	12		15000	6400	5600	3000	87	UV Control		33,39,45	104
CMH® Single-Ended G12																				
T4.5	G12	E	U	20	3.56	2.18	29703	CMH20T/U/830/G12	M156	12		12000	1600	1200	3000	81	UV Control		33,39,51	104
		E	U	39	3.56	2.18	20153	CMH39TUVCU830G12	M130	12		15000	3400	2300	3000	84	UV Control		33,39,45	104
		E	U	39	3.56	2.18	29696	CMH39T/U/942/G12	M130	12		12000	3150	2700	4200	88	UV Control		33,39,45	104
T6	G12	E	U	70	3.56	2.18	20016	CMH70TU/830/G12	C139/ M139	12		15000	6200	4700	3000	83	UV Control		33,39,45	104
		E	U	70	3.56	2.18	20023	CMH70TU/942/G12	C139/ M139	12		15000	6000	4600	4200	93	UV Control		33,39,45	104
		E	U	150	3.93	2.18	20017	CMH150TU/830/G12	M102/ M142	12		12000	14000	11000	3000	82	UV Control		33,39,45	104
		E	U	150	3.93	2.18	20018	CMH150TU/942/G12	M102/ M142	12		12000	13000	11000	4200	94	UV Control		33,39,45	104
CMH® Double-Ended TD																				
T6	Rx7s	E	HAS	70	4.50	2.25	92587	CMH70/TD/830RX7S	M85/ M139	12		15000	7000	5600	3000	81	UV Control		33,39	109
		E	HAS	70	4.50	2.25	92588	CMH70/TD/942RX7S	M85/ M139	12		15000	7000	5600	4200	88	UV Control		33,39	109
T7	Rx7s	E	HAS	150	5.37	2.62	92589	CMH150TD830RX7S	M81/ M142	12		15000	14000	11500	3000	80	UV Control		33,39	109
		E	HAS	150	5.37	2.62	92590	CMH150TD942RX7S	M81/ M142	12		15000	14000	11500	4200	93	UV Control		33,39	109

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Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
Constant Color CMH® Metal Halide Lamps (continued)																				
CMH® GU6.5																				
T4	GU6.5	E	U	20	2.05	1.18	85086	CMH20T/U830GU6.5	M156	12		12000	1615	1066	3000	81	UV Control		33,39,51	104
		E	U	39	2.05	1.18	71484	CMH39T/U930GU6.5	M130	12		10000	3400	2300	3000	88	UV Control		33,39,51	104
		E	U	39	2.05	1.18	71487	CMH39T/U942GU6.5	M130	12		12000	3400	2600	4000	90	UV Control		33,39,51	104
CMH® Mini ULTRA																				
T4.5	G8.5	E	U	70	3.37	2.00	73057	CMH70U930G8.5ULR	C139/ M139	12		15000	6200	5400	3000	88	UV Control		33,39,45	104
CMH® Mini's																				
T4.5	G8.5	E	U	20	3.37	2.00	92696	CMH20TCU830/G8.5	M156	12		12000	1650	1090	3000	81	UV Control		33,39,51	104
		E	U	39	3.37	2.00	90352	CMH39TCU830/G8.5	M130	12		15000	3400	2300	3000	84	UV Control		33,39,45	104
		E	U	39	3.37	2.00	29698	CMH39TCU942/G8.5	M130	12		12000	3150	2700	4200	88	UV Control		33,39,45	104
		E	U	70	3.37	2.00	92585	CMH70TCU830G8.5	C139/ M139	12		15000	6200	4400	3000	83	UV Control		33,39,45	104
		E	U	70	3.37	2.00	29701	CMH70TCU942/G8.5	C139/ M139	12		15000	6000	4600	4200	90	UV Control		33,39,45	104
CMH® Chromafit™																				
T15	E39	E	U	250	9.75	5.75	93357	CMH250/U/830/R	S50/ M168	12		20000	25000	20000	3000	85			33	105
ED18	E39	E	U	400	9.75	5.75	93295	CMH400/U/830/R	S51/ M169	12		20000	41000	31300	3000H 3600V	82H 80V			33,45,49	105
High-Watt CMH® SPXX																				
ED28	EX39	O	V	250	8.31	5.00	48429	CMH250/V/PA/O		12		20000	23000	18400	4100	90	Clear		33,45,52	106
		O	V	250	8.31	5.00	48432	CMH250C/V/PA/O		12		20000	22000	17600	4100	90	Coated		33,45,52	106
ED37	EX39	O	V	320	11.31	7.00	17264	CMH320/V/PA/O		6		20000	31000	24800	4100	90	Clear		33,45,52	106
		O	V	320	11.31	7.00	17267	CMH320C/V/PA/O		6		20000	30000	24000	4100	90	Coated		33,45,52	106
		O	V	350	11.31	7.00	20035	CMH350/V/PA/O		6		20000	33000	26400	4000	90	Clear		33,45,52	106
		O	V	350	11.31	7.00	20036	CMH350C/V/PA/O		6		20000	32000	25600	4000	90	Coated		33,45,52	106
		O	V	400	11.31	7.00	49910	CMH400/V/PA/O		6		20000	40000	32000	3700	92	Clear		33,45,52	106
		O	V	400	11.31	7.00	49911	CMH400C/V/PA/O		6		20000	39000	31200	3700	92	Coated		33,45,52	106
PulseArc™ Multi-Vapor® Metal Halide Lamps																				
50 Watts																				
BD17	E26	E	U	50	5.43	3.43	10361	MXR50/U/MED	M110	6		10000	3200	2100	3700	60	Clear			118
		E	U	50	5.43	3.43	10364	MXR50/C/U/MED	M110	6		10000	3000	2000	3400	65	Coated			118
70 Watts																				
BD17	E26	E	U	70	5.43	3.43	22158	MXR70/U/MED	M98	6		12000	5500	3500	3200	70	Clear			118
		E	U	70	5.43	3.43	22162	MXR70/C/U/MED	M98	6		12000	5300	3300	3200	70	Coated			118
		E	U	70	5.43	3.43	12590	MVR70/U/MED	M98	6		12000	4700	3000	4000	70	Clear			118
		E	U	70	5.43	3.43	12594	MVR70/C/U/MED	M98	6		12000	4500	2800	4000	70	Coated			118
100 Watts																				
BD17	E26	E	U	100	5.43	3.43	18680	MXR100/U/MED	M90	6		15000	9000	6200	3200	70	Clear			118
		E	U	100	5.43	3.43	18679	MXR100/C/U/MED	M90	6		15000	8500	5900	3200	70	Coated			118
		E	U	100	5.43	3.43	12652	MVR100/U/MED	M90	6		15000	8100	5800	4000	70	Clear			118
		E	U	100	5.43	3.43	12653	MVR100/C/U/MED	M90	6		15000	7600	4900	4000	70	Coated			118
150 Watts																				
BD17	E26	E	U	150	5.43	3.43	22935	MXR150/U/MED	M102	6		15000	13300	10000	3400	60	Clear			118
		E	U	150	5.43	3.43	22936	MXR150/C/U/MED	M102	6		15000	12600	9500	3100	60	Coated			118
		E	U	150	5.43	3.43	12598	MVR150/U/MED	M102	6		15000	14000	10500	4300	65	Clear			118
		E	U	150	5.43	3.43	12604	MVR150/C/U/MED	M102	6		15000	13300	10000	3900	70	Coated			118
175 Watts																				
ED23.5	E39	E	VBU	175	7.50	5.00	22342	MXR175/VBU/PA	M137/ M152	6		15000	17000	12500	3200	65	Clear		43	117
		E	VBU	175	7.50	5.00	11185	MXR175/C/VBU/PA	M137/ M152	6		15000	16000	12000	3200	65	Coated		43	117
		E	VBU	175	7.50	5.00	12622	MVR175/VBU/PA	M137/ M152	6		15000	17500	13000	4000	75	Clear		43	117
		E	VBU	175	7.50	5.00	12633	MVR175/C/VBU/PA	M137/ M152	6		15000	16500	12500	4000	75	Coated		43	117
BD17	E26	E	VBU	175	5.75	3.43	12636	MVR175/VBU/MEDPA	M137/ M152	6		15000	17500	13000	4000	75	Clear		43	117
		E	VBU	175	5.75	3.43	12637	MVR175/CVBUMEDPA	M137/ M152	6		15000	16500	12500	4000	75	Coated		43	117
250 Watts																				
ED28	E39	E	VBU	250	8.25	5.00	26317	MVR250/VBU/PA	M138/ M153	12		15000	23000	17000	4200	65	Clear		43	117
		E	VBU	250	8.25	5.00	26319	MVR250/C/VBU/PA	M138/ M153	12		15000	21500	15500	3900	65	Coated		43	117
		E	HOR	250	8.25	5.00	72882	MVR250/HOR/PA	M138/ M153	12		12000	20000	13700	4400	60	Clear		43	116

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High Intensity Discharge Lamps

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
PulseArc™ Multi-Vapor® Metal Halide Lamps (continued)																				
320 Watts																				
ED28	E39	E	VBU	320	8.25	5.00	27501	MVR320/VBU/HO/PA	M132/ M154	12		20000	31000	18000	4000	65	Clear		43	117
		E	VBU	320	8.25	5.00	27502	MVR320/C/VBUHOPA	M132/ M154	12		20000	30000	16500	3700	70	Coated		43	117
		E	VBU	320	8.25	5.00	45666	MVR320VBU/XHO/PA	M132/ M154	12		20000	34000	25000	4000	65	Extra High Output		43	116
		E	VBU	320	8.25	5.00	45669	MVR320/C/VBU/ XHO/PA	M132/ M154	12		20000	33000	23000	3700	70	Extra High Output		43	116
		E	HOR	320	8.25	5.00	72884	MVR320/HOR/PA	M132/ M154	12		20000	30000	19100	4100	65	Clear		43	117
350 Watts																				
ED37	E39	E	VBU	350	11.50	7.00	23729	MVR350VBUXHOPA/E	M131	6		20000	36500	27000	4000	65	Extra High Output		43	117
		E	VBU	350	11.50	7.00	23738	MVR350CVBUXHOPAE	M131	6		20000	34500	25000	3700	65	Extra High Output		43	117
400 Watts																				
ED37	E39	S	VBU	400	11.50	7.00	45664	MVR400/VBU/HO/PA	M135/ M155	6		20000	41000	31000	4000	65	Clear		43, 49	121
		S	VBU	400	11.50	7.00	12642	MVR400/VBU/XHOPA	M135/ M155	6		20000	44000	33000	4000	65	Extra High Output		43, 49	121
		S	VBU	400	11.50	7.00	12644	MVR400/CVBUXHOPA	M135/ M155	6		20000	42000	31500	3700	70	Coated, Extra High Output		43, 49	121
		E	HOR	400	11.50	7.00	72886	MVR400/HOR/PA	M135/ M155	6		20000	40000	22300	4100	65	Clear		43,49	116
		E	VBD	400	11.50	7.00	46632	MVR400VBD/XHO/PA	M135	6		20000	44000	35200	4000	65	Extra High Output		43,49	116
ED28	E39	E	VBU	400	8.25	5.00	46271	MVR400/VBUED28PA	M135/ M155	12		20000	44000	28500	4000	65	Clear		43, 49	116
		E	VBU	400	8.25	5.00	46272	MVR400CVBUED28PA	M135/ M155	12		20000	42000	27500	3700	70	Coated Compact		43, 49	116
		E	HOR	400	8.25	5.00	72885	MVR400/HOR/ ED28/PA	M135/ M155	12		20000	38000	15400	4100	65	Clear Compact		43, 49	116
750 Watts																				
BT37	E39	E	VBU	750	11.50	7.00	27219	MVR750/VBU/PA	M149	6		16000	82000	60000	4000	65	Clear		49	117
		E	VBU	750	11.50	7.00	45560	MVR750/C/VBU/PA	M149	6		16000	72000	54000	3700	70	Coated		49	117
1000 Watts																				
BT37	E39	E	U	1000	11.30	7.00	10389	MVR1000U/BT37/PA	M141	6		9000H/ 12000V	105000H/ 115000V	82000H/ 90000V	3900	65	Clear		43,49	116
Multi-Vapor® Metal Halide Lamps																				
150 Watts																				
ED28	E39	E	U	150	8.25	5.00	13481	MVR150/U/WM	M57/ M107	12		7500H/ 10000V	11500H/ 13500V	7200H/ 8500V	4000	65	Clear, Watt-Miser®	◂		117
		E	U	150	8.25	5.00	13490	MVR150/C/U/WM	M57/ M107	12		7500H/ 10000V	10900H/ 12800V	6900H/ 8000V	3700	70	Coated, Watt-Miser®	◂		117
175 Watts																				
BD17	E26	E	U	175	5.75	3.43	18902	MVR175/U/MED	M57	6		6000H/ 10000V	11700H/ 13600V	7400H/ 8800V	4000	65	Clear			117
		E	U	175	5.75	3.43	26432	MVR175/U/MED/CP	M57	4		6000H/ 10000V	11700H/ 13600V	7400H/ 8800V	4000	65	Clear, Consumer Pack			117
		E	U	175	5.75	3.43	19976	MVR175/C/U/MED	M57	6		6000H/ 10000V	11900H/ 12900V	7900H/ 8400V	3900	65	Coated			117
ED28	E39	E	U	175	8.25	5.00	47760	MVR175/U	M57	12		6000H/ 10000V	11700H/ 13600V	7900H/ 8800V	4000	65	Clear			117
		E	U	175	8.25	5.00	26433	MVR175/U/CP	M57	4		6000H/ 10000V	11700H/ 13600V	7900H/ 8800V	4000	65	Clear, Consumer Pack			117
		E	U	175	8.25	5.00	47761	MVR175/C/U	M57	12		6000H/ 10000V	11900H/ 12900V	7900H/ 8400V	3900	70	Coated			117
		E	U	175	8.25	5.00	17634	MVR175/SP30/U	M57	12		6000H/ 10000V	10300H/ 12000V	6500H/ 7600V	3000	70	RE730 Phosphor Coating			117
PAR38	E26	E	U	175	5.62		25218	MVR175/PAR38/FL1	M57	6	6500	7500	12000		3800	65	Clear, One-Piece PAR			117
250 Watts																				
ED28	E39	E	U	250	8.25	5.00	42729	MVR250/U	M58	12		6000H/ 10000V	19100H/ 20800V	12400H/ 13500V	4200	65	Clear			117
		E	U	250	8.25	5.00	26434	MVR250/U/CP	M58	4		6000H/ 10000V	19100H/ 20800V	12400H/ 13500V	4200	65	Clear, Consumer Pack			117
		E	U	250	8.25	5.00	42731	MVR250/C/U	M58	12		6000H/ 10000V	18200H/ 19800V	11600H/ 13000V	3900	70	Coated			117
		E	U	250	8.25	5.00	17633	MVR250/SP30/U	M58	12		6000H/ 10000V	16600H/ 18000V	10600H/ 11500V	3000	70	RE730 Phosphor Coating			117
360 Watts																				
ED37	E39	S	VBU	360	11.50	7.00	13495	MVR360/VBU/WM/HO	M59/ M165	6		20000	36000	23500	4300	65	Clear, Watt-Miser®	◂	32, 49	121

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Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
Multi-Vapor® Metal Halide Lamps (continued)																				
400 Watts																				
ED37	E39	S	U	400	11.50	7.00	43828	MVR400/U	M59	6		15000H/ 20000V	33100H/ 36000V	22100H/ 23500V	4000	65	Clear		49	121
		S	U	400	11.50	7.00	26435	MVR400/U/CP	M59	4		15000H/ 20000V	33100H/ 36000V	22100H/ 23500V	4000	65	Clear, Consumer Pack		49	121
		S	U	400	11.50	7.00	43829	MVR400/C/U	M59	6		15000H/ 20000V	32200H/ 35000V	19300H/ 23000V	3700	70	Coated		49	121
		S	U	400	11.50	7.00	17632	MVR400/SP30/U	M59	6		15000H/ 20000V	28500H/ 31000V	17100H/ 18600V	3000	70	RE730 Phosphor Coating		49	121
ED28	E39	E	U	400	8.25	5.00	18904	MVR400/U/ED28	M59	12		15000H/ 20000V	33100H/ 36000V	22100H/ 23500V	4000	65	Clear, Compact		49	117
		E	U	400	8.25	5.00	19979	MVR400/C/U/ED28	M59	12		15000H/ 20000V	32200H/ 35000V	19300H/ 23000V	4000	65	Coated, Compact		49	117
1000 Watts																				
BT56	E39	S	U	1000	15.37	9.50	41826	MVR1000/U	M47	6		11000H/ 15000V	100280H/ 108000V	79000H/ 86000V	4000	65	Clear		49	121
		S	U	1000	15.37	9.50	41827	MVR1000/C/U	M47	6		11000H/ 15000V	96600H/ 105000V	73000H/ 80000V	3700	65	Coated		49	121
BT37	E39	E	U	1000	11.50	7.00	18205	MVR1000/U/BT37	M47	6		9000H/ 12000V	105000H/ 115000V	82000H/ 90000V	3700	65	Clear, Compact		49	121
High Output and XHO Multi-Vapor® Metal Halide Lamps																				
175 Watts																				
ED28	PosMog	E	HOR	175	8.25	5.00	18104	MVR175/HOR	M57	12		10000	15000	7700	4000	65	Clear, Position Oriented Socket			117
		E	HOR	175	8.25	5.00	18105	MVR175/C/HOR	M57	12		10000	14100	7500	3500	70	Coated, Position Oriented Socket			117
250 Watts																				
ED28	PosMog	E	HOR	250	8.25	5.00	18101	MVR250/HOR	M58	12		15000	21000	10000	4200	65	Clear, Position Oriented Socket			117
		E	HOR	250	8.25	5.00	18103	MVR250/C/HOR	M58	12		15000	19700	9400	3600	70	Coated, Position Oriented Socket			117
360 Watts - Watt-Miser® Energy-Saving Replacement for 400W Metal Halide																				
ED37	E39	S	VBU	360	11.50	7.00	40053	MVR360VBU/WM/ XHO	M59	6		20000	37000	24000	4200	65	Extra High Output	◂	32, 49	121
		S	VBU	360	11.50	7.00	40055	MVR360C/ VBUWMXHO	M59	6		20000	35000	23000	4000	70	Extra High Output	◂	32, 49	121
400 Watts																				
ED37	E39	S	VBU	400	11.50	7.00	49657	MVR400/VBU/HO	M59	6		20000	41000	26500	4000	65	High Output		49	121
		S	VBD	400	11.50	7.00	49655	MVR400/VBD	M59	6		20000	41000	26500	4000	65	Clear		49	121
		S	VBU	400	11.50	7.00	20931	MVR400SP30VBU/HO	M59	6		20000	34000	20400	3200	70	RE730 Phosphor Coating		49	121
		S	VBU	400	11.50	7.00	13923	MVR400/VBU/XHO	M59	6		20000	43000	28000	4000	65	Extra High Output		49	121
		S	VBU	400	11.50	7.00	13924	MVR400/C/VBU/XHO	M59	6		20000	42000	27000	3700	70	Extra High Output		49	121
ED28	E39	E	VBU	400	8.31	5.00	40335	MVR400/VBUED28HO	M59	12		20000	41000	26500	4000	65	Clear, Compact		49	121
BT28	E39	E	HOR	400	8.25	5.00	40201	MVR400/HOR/BT28	M59	12		20000	37000	22000	4200	65	Compact, Horizontal		49	117
BT37	E39	E	HOR	400	11.50	7.00	26218	MVR400/HOR/MOG	M59	6		20000	38000	22500	4200	65	Clear		49	117
		E	HOR	400	11.50	7.00	26219	MVR400/C/HOR/MOG	M59	6		20000	36800	22000	3900	70	Coated		49	117
1000 Watts																				
BT56	E39	S	VBU	1000	15.37	9.50	44835	MVR1000/VBU/HO	M47	6		15000	111000	87000	3800	65	Clear		49	121
		S	VBU	1000	15.37	9.50	13137	MVR1000/C/VBU/HO	M47	6		15000	107000	81500	3700	70	Coated		49	121
Sports Lighting																				
1000 Watts																				
PAR64	G38	E	U	1000	6.87		29333	SPL1000/PAR64840	HID	1	1,350,000	3500	63000		4000	80	Clear, Narrow Spot		38	124
		E	U	1000	6.87		29336	SPL1000/PAR64/HR	HID	1	1,350,000	3500	63000		4000	80	Clear, Narrow Spot		38	124
1500 Watts																				
T7	Rx7s	E	H	1500	10.12	5.00	16920	SPL1500/H/652	HID	1		6000	120000	90000	5200	65	Frosted		38	125
BT56	E39	E	U	1500	15.37	9.50	47326	MVR1500/U/SPORTS	M48	6		3000	162000H/ 170000V	133000H/ 153000V	4000	65	Clear		17, 42, 49	117
		E	U	1500	15.37	9.50	37405	MVR1500/HBU	M48	6		3000	155000H/ 165000V	130000H/ 140000V	3900	65	Clear		16, 17, 49	117
1650 Watts																				
BT56	PosMog	E	HOR	1650	15.37	9.50	25532	MVR1650/HOR	M112	6		3000	177000	145000	3200	65	Clear, Position Oriented Socket		17, 49	117
2000 Watts																				
T9	#10 Spade	E	HOR	2000	10.00	4.30	12275	MQI/2000/T9/40	M134	10		3000	170000	153000	4000	65	Clear			125

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All footnotes, warning and caution notices found at the end of this section (page 3-20).

High Intensity Discharge Lamps

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
Protected Multi-Vapor® Metal Halide Lamps																				
32 Watts																				
ED17	E26	O	VBD	32	5.43	3.43	12651	MXR32/C/VBD/O	M100	6		10000	2400	1700	3200	70	Coated, Protected			119
		O	VBU	32	5.43	3.43	16469	MXR32/C/VBU/O	M100	6		10000	2400	1700	3200	70	Coated, Protected			119
50 Watts																				
ED17	E26	O	U	50	5.43	3.43	45670	MXR50/U/MED/O	M110	6		10000	3400	1700	3500	70	Clear, Protected			120
		O	U	50	5.43	3.43	45671	MXR50/C/U/MED/O	M110	6		10000	3200	1500	3500	70	Coated, Protected			120
70 Watts																				
ED17	E26	O	U	70	5.43	3.43	12377	MXR70/U/MED/O	M98	6		12000	5500	3500	3200	70	Clear, Protected			120
		O	U	70	5.43	3.43	12577	MXR70/C/U/MED/O	M98	6		15000	5300	3300	3200	70	Coated, Protected			120
100 Watts																				
ED17	E26	O	U	100	5.43	3.43	12381	MXR100/U/MED/O	M90	6		15000	9000	6200	3200	70	Clear, Protected			120
		O	U	100	5.43	3.43	12579	MXR100/C/U/MED/O	M90	6		15000	8500	5900	3200	70	Coated, Protected			120
150 Watts																				
ED17	E26	O	U	150	5.43	3.43	45683	MXR150/U/MED/O	M102	6		15000	12500	8600	3500	70	Clear, Protected			120
		O	U	150	5.43	3.43	45688	MXR150/C/U/MED/O	M102	6		15000	12000	8300	3500	70	Coated, Protected			120
175 Watts																				
BT28	EX39	O	VBU	175	8.25	5.00	49470	MPR175/VBU/O	M57	6		10000	14400	10200	4000	65	Clear, Protected			119
		O	VBU	175	8.25	5.00	11649	MPR175/C/VBU/O	M57	6		10000	12800	7800	3800	70	Coated, Protected			119
250 Watts																				
BT28	EX39	O	VBU	250	8.25	5.00	49471	MPR250/VBU/O	M58	6		10000	23000	17000	4000	65	Clear, Protected			119
		O	VBU	250	8.25	5.00	11650	MPR250/C/VBU/O	M58	6		10000	20500	29500	3800	70	Coated, Protected			119
320 Watts																				
ED37	EX39	O	VBU	320	11.50	7.00	46275	MPR320/VBU/XHOPA	M132	6		20000	32000	22500	4000	65	Clear, Protected			120
		O	VBU	320	11.50	7.00	46276	MPR320C/VBUXHOPA	M132/ M154	6		20000	30500	21500	3700	70	Coated, Protected			120
ED28	EX39	O	VBU	320	8.25	5.00	19609	MPR320/C/PA/ED28	M132	12		20000	30600	22500	3700	70	Coated, Protected		43	120
350 Watts																				
ED37	EX39	O	VBU	350	11.50	7.00	10202	MPR350/VBU/PA	M131	6		20000	35200	24600	3700	65	Clear, Protected		43	120
		O	VBU	350	11.50	7.00	48824	MPR350/C/VBU/PA	M131	6		20000	33400	23500	3700	70	Coated, Protected		43	120
		O	VBU	350	11.50	7.00	48825	MPR350C/VBU3K/PA	M131	6		20000	33400	23500	3200	70	Coated, Protected		43	120
360 Watts - Watt-Miser® Energy-Saving Replacement for 400W Metal Halide																				
ED37	EX39	O	VBU	360	11.50	7.00	40056	MPR360VBUWM/ HO/O	M59	6		20000	36000	23500	4000	65	Clear, Protected		32, 49	119
		O	VBU	360	11.50	7.00	11685	MPR360CVBUWMHO/ O	M59	6		20000	35000	22500	3700	70	Coated, Protected		32, 49	119
400 Watts																				
ED37	EX39	O	VBU	400	11.50	7.00	18708	MPR400/VBU/HO/O	M59	6		20000	40000	26000	3400	65	Clear, Protected		49	119
		O	VBU	400	11.50	7.00	13582	MPR400C/VBU/HO/O	M59	6		20000	38000	25000	3200	70	Coated, Protected		49	119
		O	VBU	400	11.50	7.00	46273	MPR400/VBU/XHOPA	M135/ M155	6		20000	42000	29500	4000	65	Clear, Protected		43, 49	120
		O	VBU	400	11.50	7.00	46274	MPR400C/VBUXHOPA	M135/ M155	6		20000	40000	28000	3700	70	Coated, Protected		43, 49	120
1000 Watts																				
BT56	EX39	O	VBU	1000	15.37	9.50	41433	MPR100/VBU/O	M47	6		12000	107000	85500H/ 25500V	3500	65	Clear, Protected		49	119
Chromafit™ Multi-Vapor® Metal Halide Lamps (HPS Retrofit Lamps)																				
250 Watts																				
ED28	E39	E	VBU	250	8.25	5.75	12762	MVR250/VBU/R	S50	12		10000	18500	13900	4500	65	Clear, HPS Retrofit		50	116
		E	VBU	250	8.25	5.75	12769	MVR250/C/VBU/R	S50	12		10000	18000	13000	4000	70	Coated, HPS Retrofit		50	116
1000 Watts																				
ED28	E39	E	U	400	8.31	5.00	26851	MVR400/U/ED28/R	S51	12		15000H/ 20000V	33100H/ 36000V	20200H/ 22000V	4000	65	Clear, Compact, HPS Retrofit		49, 50	116
ED37	E39	S	VBU	400	11.50	5.75	12770	MVR400/VBU/R	S51	6		20000	37600	22600	4500	65	Clear, HPS Retrofit		49, 50	122
		S	VBU	400	11.50	5.75	12772	MVR400/C/VBU/R	S51	6		20000	35700	21400	4000	70	Coated, HPS Retrofit		49, 50	122
I-Line Multi-Vapor® Metal Halide Lamps (Mercury Retrofit Lamps)																				
325 Watts																				
ED37	E39	S	U	325	11.50	7.00	10687	MVR325/I/U/WM	H33	6		10000H/ 20000V	25800H/ 28000V	12200H/ 28000V	4000	65	Clear, Watt-Miser®	✒	49	121
ED37	E39	S	U	325	11.50	7.00	10688	MVR325/C/I/U/WM	H33	6		10000H/ 20000V	24200H/ 26300V	11800H/ 12900V	3700	70	Coated, Watt-Miser®	✒	49	121
400 Watts																				
ED37	E39	S	U	400	11.50	7.00	43817	MVR400/I/U	H33/ M59	6		10000H/ 15000V	33100H/ 36000V	22100H/ 24000V	4000	65	Clear, 400W Mercury Retrofit		49	121
		S	U	400	11.50	7.00	43818	MVR400/C/I/U	H33/ M59	6		10000H/ 15000V	32200H/ 35000V	19300H/ 21000V	3700	70	Clear, 400W Mercury Retrofit		49	121

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Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
I-Line Multi-Vapor® Metal Halide Lamps (Mercury Retrofit Lamps) (continued)																				
950 Watts Energy-Saving Replacement for 1000W Mercury																				
BT56	E39	S	VBU	950	15.06	9.50	39097	MVR950/I/VBU	H36/ M47	6		12000	100000	62900	3800	65	Coated, Retrofit Watt-Miser®	✒	49	121
Saf-T-Gard® Self-Extinguishing Multi-Vapor® Lamps																				
400 Watts																				
ED37	E39	S	U	400	11.50	7.00	11146	MVT400/I/U	H33/ M59	6		10000H/ 15000V	33100H/ 36000V	22100H/ 23500V	4000	65	Clear, Retrofit		49	123
		S	U	400	11.50	7.00	11119	MVT400/C/I/U	H33/ M59	6		10000H/ 15000V	32200H/ 35000V	19300H/ 23000V	3700	70	Coated, Retrofit		49	123
		S	VBU	400	11.50	7.00	11144	MVT400/VBU	M59	6		20000	41000	26500	4000	65	Clear		49	123
		S	VBU	400	11.50 cm	7.00 cm	11145	MVT400/C/VBU	M59	6		20000	41000	26500	3700	70	Coated		49	123
Arcstream® Metal Halide Lamps																				
70 Watts																				
T6	R7s	E	HOR	70	4.68		34530	ARC70/TD/UVC/730	M85	12		6000	6000	4800	3000	75	Clear			103
		E	HOR	70	4.68		34536	ARC70/TD/UVC/743	M85	12		6000	6000	4800	4300	75	Clear			103
150 Watts																				
T7	R7s	E	HOR	150	5.37		34527	ARC150/TD/730R7S	M81	12		6000	13000	11000	3000	75	Clear			103
		E	HOR	150	5.37		34535	ARC150/TD/742R7S	M81	12		6000	12000	10000	4200	75	Clear			103
T6	G12	E	U	150	3.00	2.25	21053	ARC150T/U/830G12	M81	10		6000	12000	9500	3000	80	Clear			102
		E	U	150	3.00	2.25	21054	ARC150T/U/840G12	M81	10		6000	11500	10500	4000	80	Clear			102
T7	GY9.5	E	BDH	150	1.62	1.12	34813	CSS150/CAP/50	M81	10		1000	10000	8000	5000	80	Clear, Disco Lamp			102
250 Watts																				
T15	E39	E	HOR	250	8.37	5.62	26683	ARC250T/H960/E39	M80	12		10000	19000	13300	6000	90	Clear			101
Lucalox® High Pressure Sodium Lamps																				
200 Watts																				
ED18	E39	O	U	200	9.75	5.75	44206	LU200	S66	12		24000+	22000	19800	2100	22	Clear			111
250 Watts																				
ED18	E39	O	U	250	9.75	5.75	44047	LU250	S50	12		24000+	28000	25200	2100	22	Clear			111
		O	U	250	9.75	5.75	26430	LU250/CP	S50	4		24000+	28000	25200	2100	22	Clear, Consumer Pack			111
		O	U	250	9.00	5.00	44051	LU250/D	S50	12		24000+	26000	23400	2100	22	Diffuse			111
310 Watts																				
ED18	E39	O	U	310	9.75 cm	5.75 cm	44053	LU310	S67	12		24000+	37000	33300	2100	22	Clear			111
400 Watts																				
ED18	E39	O	U	400	9.75	5.75	44054	LU400	S51	12		24000+	51000	45000	2100	22	Clear			111
		O	U	400	9.75	5.75	26431	LU400/CP	S51	4		24000+	51000	45000	2100	22	Clear, Consumer Pack			111
ED37	E39	O	U	400	11.31	7.00	44056	LU400/D	S51	6		24000+	47500	42750	2100	22	Diffuse			111
T7	Rx7s	O	HOR	400	10.12	0	30244	LU400/TD	S51	10		24000	43000	37300	2000	25	Clear, Double-Ended Horizontal Burn			111
600 Watts																				
T15	E39	O	U	600	11.06	6.62	27187	LU600/T	S106	12		24000	90000	81000	2000	22	Clear			111
750 Watts																				
ED37	E39	O	U	750	11.50	6.75	14682	LU750	S111	6		24000+	110000	99000	2100	22	Clear			111
1000 Watts																				
T7	Rx7s	O	HOR	1000	13.18		30246	LU1000/TD	S52	10		24000	137500	118200	2000	25	Clear, Double-Ended Horizontal Burn			111
Ecolux® High Pressure Sodium Lamps (TCLP Compliant)																				
35 Watts																				
B17	E26	O	U	35	5.43	3.43	11668	LU35/MED/ECO	S76	6		16000	2250	2025	1900	22	TCLP Compliant			111
		O	U	35	5.43	3.43	26420	LU35/MED/CP	S76	4		16000	2250	2025	1900	22	TCLP Compliant, Consumer Pack			111
50 Watts																				
B17	E26	O	U	50	5.43	3.43	11345	LU50/MED/ECO	S68	6		24000+	4000	3600	1900	22	TCLP Compliant			111
		O	U	50	5.43	3.43	26421	LU50/MED/CP	S68	4		24000+	4000	3600	1900	22	TCLP Compliant, Consumer Pack			111
B17	E26	O	U	50	5.43	3.43	11347	LU50/D/MED/ECO	S68	6		24000+	3800	3420	1900	22	TCLP Compliant, Diffuse			111
ED23.5	E39	O	U	50	7.75	5.00	44975	LU50/H/ECO	S68	12		24000+	4000	3600	1900	22	TCLP Compliant			111
		O	U	50	7.75	5.00	26425	LU50/CP	S68	4		24000+	4000	3600	1900	22	TCLP Compliant, Consumer Pack			111
		O	U	50	7.75	5.00	45006	LU50/D/H/E/CO	S68	12		24000+	3800	3420	1900	22	TCLP Compliant, Diffuse			111

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High Intensity Discharge Lamps

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
Ecolux® High Pressure Sodium Lamps (TCLP Compliant) (continued)																				
70 Watts																				
B17	E26	O	U	70	5.43	3.43	11339	LU70/MED/ECO	S62	6		24000+	6400	5450	1900	22	TCLP Compliant			111
		O	U	70	5.43	3.43	26422	LU70/MED/CP	S62	4		24000+	6400	5450	1900	22	TCLP Compliant, Consumer Pack			111
		O	U	70	5.43	3.43	11340	LU70/D/MED/ECO	S62	6		24000+	5950	5050	1900	22	TCLP Compliant, Diffuse			111
ED23.5	E39	O	U	70	7.75	5.00	85368	LU70/H/ECO	S62	12		24000+	6400	5450	1900	22	TCLP Compliant			111
		O	U	70	7.75	5.00	26426	LU70/CP	S62	4		24000+	6400	5450	1900	22	TCLP Compliant, Consumer Pack			111
		O	U	70	7.75	5.00	72605	LU70/D/H/ECO	S62	12		24000+	5950	5050	1900	22	TCLP Compliant, Diffuse			111
100 Watts																				
B17	E26	O	U	100	5.50	3.43	13250	LU100/MED/ECO	S54	6		24000+	9500	8550	2000	22	TCLP Compliant			111
		O	U	100	5.50	3.43	26423	LU100/MED/CP	S54	4		24000+	9500	8550	2000	22	TCLP Compliant, Consumer Pack			111
		O	U	100	5.50	3.43	13251	LU100/D/MED/ECO	S54	6		24000+	8800	7920	2000	22	TCLP Compliant, Diffuse			111
ED23.5	E39	O	U	100	7.75	5.00	85369	LU100/H/ECO	S54	12		24000+	9500	8550	2000	22	TCLP Compliant			111
		O	U	100	7.75	5.00	26427	LU100/CP	S54	4		24000+	9500	8550	2000	22	TCLP Compliant, Consumer Pack			111
		O	U	100	7.75	5.00	72606	LU100/D/H/ECO	S54	12		24000+	8800	7920	2000	22	TCLP Compliant, Diffuse			111
150 Watts																				
B17	E26	O	U	100	5.75	3.50	13252	LU150/MED/ECO	S55	6		24000+	16000	14400	2000	22	TCLP Compliant			111
		O	U	100	5.75	3.50	26424	LU150/MED/CP	S55	4		24000+	16000	14400	2000	22	TCLP Compliant, Consumer Pack			111
		O	U	100	5.75	3.50	13253	LU150/D/MED/ECO	S55	6		24000+	15000	13500	2000	22	TCLP Compliant, Diffuse			111
ED23.5	E39	O	U	150	7.75	5.00	85371	LU150/55/H/ECO	S55	12		24000+	16000	14400	2000	22	TCLP Compliant			111
		O	U	150	7.75	5.00	26429	LU150/55/CP	S55	4		24000+	16000	14400	2000	22	TCLP Compliant, Consumer Pack			111
		O	U	150	7.75	5.00	85380	LU150/55/D/H/ECO	S55	12		24000+	15000	13500	2000	22	TCLP Compliant, Diffuse			111
200 Watts																				
ED18	E39	O	U	200	9.75	5.75	85372	LU200/H/ECO	S66	12		24000+	22000	19800	2100	22	TCLP Compliant			111
250 Watts																				
ED18	E39	O	U	250	9.75	5.75	85377	LU250/H/ECO	S50	12		24000+	28000	25200	2100	22	TCLP Compliant			111
		O	U	250	9.75	5.75	85381	LU250/D/H/ECO	S50	12		24000+	26000	23400	2100	22	TCLP Compliant, Diffuse			111
400 Watts																				
ED18	E39	O	U	400	9.75	5.75	85379	LU400/H/ECO	S51	12		24000+	51000	45000	2100	22	TCLP Compliant			111
1000 Watts																				
E25	E39	O	U	1000	15.06	8.75	44058	LU1000/ECO	S52	6		24000+	130000	117000	2100	22	TCLP Compliant		49	111
Standby Longlife Lucalox® Lamps																				
70 Watts																				
ED23.5	E39	O	U	70	7.75	5.00	19264	LU70/SBY/XL	S62	12		40000	6400	5050	2000	22	Clear, Standby Longlife, Dual Arc Tube			111
100 Watts																				
ED23.5	E39	O	U	100	7.75	5.00	19265	LU100/SBY/XL	S54	12		40000	9500	8190	2000	22	Clear, Standby Longlife, Dual Arc Tube			111
150 Watts																				
ED23.5	E39	O	U	150	7.75	5.00	19266	LU150/55/SBY/XL	S55	12		40000	16000	14000	2000	22	Clear, Standby Longlife, Dual Arc Tube			111
200 Watts																				
ED18	E39	O	U	200	9.75	5.75	23431	LU200/SBY/XL	S66	12		40000	215000	18150	2000	22	Clear, Standby Longlife, Dual Arc Tube			111
250 Watts																				
ED18	E39	O	U	250	9.75	5.75	19270	LU250/SBY/XL	S50	12		40000	27500	24750	2000	22	Clear, Standby Longlife, Dual Arc Tube			111
400 Watts																				
ED18	E39	O	U	400	9.75	5.75	19272	LU400/SBY/XL	S51	12		40000	500000	45000	2000	22	Clear, Standby Longlife, Dual Arc Tube		49	111

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Standby Longlife Lucalox® Lamps (continued)																				
1000 Watts																				
E25	E39	O	U	1000	15.06	8.75	27185	LU1000/SBY/XL	S52	6		40000	127000	115000	2100	22	Clear, Standby Longlife, Dual Arc Tube		49	111
Ecolux® NC Non-Cycling High Pressure Sodium Lamps (TCLP Compliant)																				
70 Watts																				
ED23.5	E39	O	U	70	7.75	5.00	14672	LU70/ECO/NC	S62	12		30000	6300	5670	1900	23	Clear, Non-Cycling			111
100 Watts																				
ED23.5	E39	O	U	100	7.75	5.00	14673	LU100/ECO/NC	S54	12		30000	10500	9450	2000	23	Clear, Non-Cycling			111
150 Watts																				
ED23.5	E39	O	U	150	7.75	5.00	40390	LU150/55/ECO/NC	S55	12		30000	16000	14400	2000	23	Clear, Non-Cycling			111
200 Watts																				
ED18	E39	O	U	200	9.75	5.75	45059	LU200/ECO/NC	S66	20		30000	22000	19800	2100	22	Clear, Non-Cycling			111
250 Watts																				
ED18	E39	O	U	250	9.75	5.75	14674	LU250/ECO/NC	S50	12		30000	29000	26100	2000	30	Clear, Non-Cycling			111
400 Watts																				
ED18	E39	O	U	400	9.75	5.75	14675	LU400/ECO/NC	S51	12		30000	54000	48600	2100	30	Clear, Non-Cycling			111
Deluxe Lucalox® High Pressure Sodium Lamps																				
70 Watts																				
B17	E26	O	U	70	5.50	3.50	16611	LU70/DX/MED	S62	6		10000	3800	3040	2200	65	Clear, Improved CRI			111
150 Watts																				
B17	E26	O	U	150	5.75	3.50	18094	LU150/DX/MED	S54	6		15000	10500	9135	2200	65	Clear, Improved CRI			111
ED23.5	E39	O	U	150	7.75	5.00	18092	LU150/55/DX	S55	12		15000	10500	9135	2200	65	Clear, Improved CRI			111
250 Watts																				
ED18	E39	O	U	250	9.75	5.75	11785	LU250/DX	S50	12		15000	225000	20700	2200	65	Clear, Improved CRI			111
400 Watts																				
ED28	E39	O	U	400	9.00	5.18	19650	LU400/DX	S51	12		15000	37400	34400	2200	70	Clear, Improved CRI		49	111
E-Z Lux® High Pressure Sodium Lamps (Mercury Retrofit)																				
150 Watts																				
ED28	E39	O	U	150	9.00	5.00	49943	LUH150/EZ	H39/ S63	12		13000	12500	12000	1900	22	Clear, Energy-Saving Retrofit for 250W Mercury	✦	46	111
215 Watts																				
BT28	E39	O	U	215	8.30	5.00	49939	LUH215/EZ	H37/ S65	12		16000	20000	17000	2000	20	Clear, Energy-Saving Retrofit for 250W Mercury	✦	47	111
360 Watts																				
BT37	E39	O	U	360	11.31	7.12	18012	LUH360/EZ	H33/ S64	6		24000	45000	40500	2100	25	Clear, Energy-Saving Retrofit for 250W Mercury	✦	48,49	111
Mercury Lamps																				
40/50 Watts																				
B17	E26	O	U	50	5.12	3.12	12460	HR40/50DX45-46	H45	5		6000	1575H/1140V	910H/1250V	3900	50	40W on H45 Ballast, 50W on H46 Ballast, Deluxe White			113
75 Watts																				
B17	E26	O	U	75	5.43	3.50	12461	HR75DX43	H43	5		16000	2700	2250	3900	50	Deluxe White			113
100 Watts																				
A23.5	E26	O	U	100	5.43	3.50	12467	HR100DX38/A23	H38	5		18000	4000	2600	3800	50	Deluxe White			113
B17	E26	O	U	100	5.43	3.50	17113	HR100DX38/MED	H38	5		18000	4000	2600	3900	50	Deluxe White			113
ED23.5	E39	O	U	100	7.50	5.00	12471	HR100A38	H38	5		24000+	3850	2500	5700	15	Clear			113
		O	U	100	7.50	5.00	22575	HR100DX38	H38	12		24000+	4000	2600	3900	50	Deluxe White			113
		O	U	100	7.50	5.00	26437	HR100DX38/CP	H38	4		24000+	4000	2600	3900	50	Deluxe White, Consumer Pack			113
R40	E26	O	U	100	7.00		36238	HR100RFL38	H38	12		24000+	2450	2000	5700	15	Reflector Flood, Beam Spread			113
		O	U	100	7.00		36495	HR100RDXFL38	H38	12		24000+	2450	2050	3900	50	Deluxe White, Reflector WFL, Beam Spread			113
175 Watts																				
ED28	E39	O	U	175	8.25	5.00	24048	HR175A39	H39	12		24000	7850	6830	5700	15	Clear			113
		O	U	175	8.25	5.00	26440	HR175A39/CP	H39	4		24000	7850	6830	5700	15	Clear, Consumer Pack			113
		O	U	175	8.25	5.00	24062	HR175DX39	H39	12		24000	7800	6800	3900	50	Deluxe White			113
		O	U	175	8.25	5.00	26439	HR175DX39/CP	H39	4		24000+	7800	6800	3900	50	Deluxe White, Consumer Pack			113

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes, warning and caution notices found at the end of this section (page 3-20).

High Intensity Discharge Lamps

Bulb Shape	Base	LET	OP	Watts	MOL (in)	LCL (in)	Order Code	Description	ANSI Ballast Type	Case Qty	CBCP	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Additional Information	Reduced Watts/ High Color Rendering	Footnotes	Warning and Caution Notices
Mercury Lamps (continued)																				
175 Watts (continued)																				
R40	E26	O	U	175	7.00		33026	HR175RDXFL39	H39	12		24000+	5700	4350	3900	50	Deluxe White, Reflector WFL, Beam Spread			113
250 Watts																				
ED28	E39	O	U	250	8.25	5.00	24068	HR250A37	H37	12		24000	11000	8250	5700	15	Clear			113
		O	U	250	8.25	5.00	32127	HR250DX37	H37	12		24000	11200	8400	3900	50	Deluxe White			113
400 Watts																				
BT37	E39	O	U	400	11.31	7.00	32313	HR400DX33/BT	H33	6		24000+	22600	14400	3900	50	Deluxe White			113
ED37	E39	O	U	400	11.31	7.00	23974	HR400A33	H33	6		24000	21000	13400	5700	15	Clear			113
		O	U	400	11.31	7.00	23998	HR400DX33	H33	6		24000	22600	14400	3900	50	Deluxe White			113
R52	E39	O	U	400	11.75		33879	HR400RDX33	H33	6		24000+	20800	13400	3900	50	Reflector, Deluxe White, 160 Beam Spread			113
R60	E39	O	U	400	10.12		33938	HR400RDXFL33	H33	6		24000+	15500	8950	3900	50	Reflector WFL, Deluxe White, Clear Face, 110 Beam			113
1000 Watts																				
BT56	E39	O	U	1000	15.06	9.50	24171	HR1000A36	H36	6		24000+	57000	28500	5700	15	Clear		49	113
		O	U	1000	15.06	9.50	24191	HR1000DX36	H36	6		24000+	58000	29000	3900	50	Deluxe White		49	113
		O	U	1000	15.06	9.37	32733	HR1000DX34	H34	6		16000	58300	29200	3900	50	Deluxe White		28,49	113
Saf-T-Gard® Mercury Lamps																				
175 Watts																				
ED28	E39	O	U	175	8.25	5.00	43391	HT175DX39	H39	12		16000	7800	6800	3900	50	Deluxe White			114
400 Watts																				
ED37	E39	O	U	400	11.31	7.00	43363	HT400DX33	H33	6		24000	22600	14400	3900	50	Deluxe White		49	114
E-Z Merc® Self-Ballasted Lamps (Incandescent Retrofit)																				
160 Watts																				
ED24	E26	O	U	160	7.00	4.50	45178	HSB160/M	B87	24		12000	2300	1600	3900	50	Deluxe White		9	115
250 Watts																				
ED28	E26	O	U	250	8.50	5.18	45174	HSB250M	B94	12		12000	5000	3750	3900	50	Deluxe White		9	115
ED28	E39	O	U	250	8.50	5.18	45176	HSB250	B94	12		12000	5000	3750	3900	50	Deluxe White		9	115
450 Watts																				
BT37	E39	O	U	450		7.37	40122	HSB450	B75	6		16000	9100	8280	3900	50	Deluxe White		9,49	115
750 Watts																				
R57	E39	O	U	750	12.75	8.37	44012	HSB750R/120	B78	6		16000	14000	11200	3900	50	Deluxe White, Reflector Flood, 120V, 130 Beam		9,49	115
Export Lamps																				
Metal Halide																				
ED28	E40	E	U	175	8.25	5.00	47762	MVR175/U/40	M57	12		6000H/ 1000V	11700H/ 13600V	7400H/ 8800V	4000	65	Clear			117
		E	U	175	8.25	5.00	47763	MVR175/C/U/40	M57	12		6000H/ 1000V	11900H/ 12900V	7900H/ 8400V	3900	70	Coated			117
		E	U	175	8.25	5.00	44542	MVR250/U/40	M58	12		6000H/ 1000V	19100H/ 20800V	12400H/ 13500V	4200	65	Clear			117
		E	U	250	8.25	5.00	44543	MVR250/C/U/40	M58	12		6000H/ 1000V	18200H/ 19800V	11600H/ 13000V	3900	70	Coated			117
ED37	E40	S	U	400	11.50	7.00	43907	MVR400/U/40	M59	6		15000H/ 20000V	33100H/ 36000V	22100H/ 23500V	4000	65	Clear		49	121
		S	U	400	11.50	7.00	43908	MVR400/C/U/40	M59	6		15000H/ 20000V	32200H/ 35000V	19300H/ 23000V	3700	70	Coated		49	121
		S	VBU	400	11.50	7.00	49860	MVR400/VBU/40	M59	6		20000	41000	26500	4000	65	Clear, Vertical Base Up		49	121
		S	VBU	400	11.50	7.00	49857	MVR400/C/VBU/40	M59	6		20000	41000	25000	3700	70	Coated, Vertical Base Up		49	121
		O	VBU	400	11.50	7.00	27738	MPR400C/VBU/O/40	M59	6		20000	38000	26000	3200	70	Coated, Vertical Base Up, Protected		49	119
		O	VBU	400	11.50	7.00	18709	MPR400/VBU/O/40	M59	6		20000	40000	26000	3400	65	Clear, Vertical Base Up, Protected		49	119
BT56	E40	S	U	1000	15.37	9.50	41828	MVR1000/U/40	M47	6		11000H/ 15000V	1002800H/ 108000V	79000H/ 86000V	4000	65	Clear		49	121
		S	U	1000	15.37	9.50	41829	MVR1000/C/U/40	M47	6		11000H/ 15000V	96600H/ 10500V	73000H/ 80000V	3700	65	Coated		49	121
Lucalox® High Pressure Sodium																				
ED23.5	E40	O	U	150	7.75	5.00	44044	LU150/55/40	S55	12		24000+	16000	14400	2000	22	Clear			111
ED18	E40	O	U	250	9.75	5.75	44048	LU250/40	S50	12		24000+	28000	25200	2100	22	Clear			111
		O	U	400	9.00	5.75	44055	LU400/40	S51	12		24000+	51000	45000	2100	22	Clear			111
E25	E40	O	U	1,000	15.06	8.75	44059	LU1000/40	S52	6		24000+	130000	117000	2100	22	Clear			111

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes, warning and caution notices found at the end of this section (page 3-20).

General Information

Fixture Requirements – Lamp Enclosure type

HID lamps have fixture requirements that must be followed. The following three codes identify the appropriate fixture for a particular lamp. Lamps having an "O" code can be operated in an "Open or Enclosed" fixture. Lamps with a "S" code can be used in open fixtures only if operated in a vertical ±15° burn position. Lamps in all other burn positions must be suitably enclosed.

O = Open or Enclosed Fixtures

E = Enclosed Fixtures Only

S = Lamps operated in a vertical position (Base Up or Down), ±15°, can be used in an open fixture. Lamps burned in any other orientation must be used in "enclosed fixtures only."

Use in Enclosed Fixtures. "Enclosed" fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) per UL Standard #1598 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position ±15° that are not designated "Enclosed Fixtures Only," lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

Protection of Bulbs from Moisture

Outer bulbs of HID lamps are made of heat-resistant glass, designed to have strength and thermal-shock-resistant characteristics suitable for normal applications in typical luminaries. However, shielding of lamps must be provided to avoid bulb breakage that could result from direct contact with liquids (such as water) during operation.

Rated Life

Values are based on laboratory tests of a large number of representative lamps under controlled conditions, including operation at 10 hours per start on ballasts having specified electrical characteristics. Individual lamps or groups of lamps may, of course, vary from the Rated Life shown. Lamp operating conditions can also affect life. Where Rated Life is less than 24,000 hours, it is a MEDIAN value of life expectancy; that is, the total operating time at which, under normal operating conditions, 50% of any large group of initially installed lamps is expected to be still burning. Where Rated Life is 24,000+ hours, 67% of lamps are expected to be still burning at 24,000 hours. For cost-of-light calculations involving these lamps, if an estimated operating time is required at which 50% of the lamps will still be burning, a value of 28,500 hours is suggested. At burning cycles shorter than 10 hours per start, the median life will be shortened as follows:

5 hrs/start: approx. life 75% of rating

2-1/2 hrs/start: approx. life 56% of rating

1-1/4 hrs/start: approx. life 42% of rating

Lumens – Lumens listed are reference lumens

Rated average lamp lumens are obtained under controlled laboratory conditions in a prescribed burning position. **Initial Reference Lumens** refer to the lamp lumen output after 100-hours burning. **Mean Reference Lumens** refer to the lamp lumen output at the mean lumen point during lamp life. The mean lumen point occurs at 50% rated life for HPS and mercury lamps, and at 40% rated life for metal halide lamps. Lamp performance on typical systems under typical service conditions will vary from the reference lumen ratings.

High Intensity Discharge lighting systems are subject to a wide range of variations which may affect final lighting levels. As a result, lamp performance on actual systems may vary due to lamp orientation, ambient temperatures, ballast variations, line voltage and other reasons. Care must be taken when choosing a system to consider how these changes can affect your light levels both initially and at the mean lumen point.

Ballasts

HID lamps (except E-Z-Merc®) require auxiliary ballast equipment designed to produce proper electrical values. Actual lamp watts may vary depending on ballast characteristics. For total system watts, add nominal ballast watts.

All Lucalox®, Mercury, and Metal Halide lamps (except I-Line) will start at ambient temperatures of -22°F (-30°C). I-Line Multi-Vapor® will start at ambient temperatures of 5°F (-15°C) when used on approved mercury ballasts.

Start Characteristics

Full light output does not occur immediately when power is applied. Instead, there is a time delay for the lamp to reach 90% total light output. The starting delay for High Pressure Sodium is 3-4 minutes, for Metal Halide 2-5 minutes, and for Mercury 5-7 minutes.

Restart Characteristics

With a power interruption of a half cycle or more, the arc will extinguish. When power is immediately reapplied, full light output does not occur immediately. For HPS lamps there is a delay of 1 minute to reach 90% total light output; however, Lucalox® LU1000 requires 2 minutes and E-Z Lux® lamps require 3 minutes to reach 90% total light output. For most Metal Halide lamps, including CMH®, when the power is immediately reapplied, there will be a delay of 10 to 17 minutes before the lamps reach the 90% light output level. PulseArc® lamps restrike in <4 minutes. The restart delay for mercury lamps is 3 to 6 minutes to reach 90% total light output.

Operating Positions and Codes

Mercury and High Pressure Sodium lamps may be operated in any burn position and will still maintain their rated performance specifications. Metal Halide and Low Pressure Sodium lamps, however, are optimized for performance in specific burn positions, or may be restricted to certain burn positions for safety reasons.

U = Universal burning position

HBU = Horizontal -15° to Base Up

HBD = Horizontal +15° to Base Down

HOR = Horizontal ±15°

HOR PA = ±75°

HOR ±60° = applies to MVR 1650

H45 = Horizontal to ±45° only

VBU = Vertical Base Up ±15°

VBD = Vertical Base Down ±15°

If no special burn position is noted, the burn position is universal.

HID Color

The color temperature and CRI listed in the tabular data are for reference purposes only. All high intensity discharge lamps exhibit some degree of lamp-to-lamp color variation and shift over life. These characteristics can be increased based on choice of fixture, ballast, burning position, and ambient conditions. Color variation can be greater than normal during the initial 100 hours of burning. Where color consistency is important, consider using ConstantColor® CMH® for better performance. Contact your local GE Lighting representative for more information.

Export Base Lamps (/27 and /40)

Export only lamps have a non-domestic (non-U.S.) base and are not intended for use in the United States due to potential shock hazard. The lamps are identified by "/27" or "/40" at the end of the lamp description and comply with electrical characteristics defined by IEC standards.

For the most up-to-date product information, see www.gelighting.com.

Operating Notes

CMH® Chromafit™ Metal Halide Lamps

Use in enclosed luminaire with front cover made of glass, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with Polymeric Lens.

E-Z Lux® Lamps

These high pressure sodium lamps should be operated only on certain mercury ballasts, as indicated below.

LUH110/EZ: use only with the following types of 125-watt mercury ballasts: high-reactance lag-type autotransformers or 220-volt or greater reactors.

LUH150/EZ: use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

LUH215/EZ: use only with the following types of H37 250-watt mercury ballasts: high reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

LUH360/EZ: use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.

MXR32 Metal Halide Lamp and Electronic Ballast

MXR32 lamps must be operated on GE's special, high-power-factor electronic ballast, HAL32/120. Outside dimensions for the ballast are 9-1/4" long, 3-1/8" wide and 1-3/4" high.

Saf-T-Gard® Multi-Vapor® and Saf-T-Gard® Mercury Lamps

Caution: If the outer glass envelope of a Saf-T-Gard® lamp is broken, the arc tube will self-extinguish, but the supporting structure will still be electrically connected. Be sure power is off and the lamp has cooled before removing the lamp to avoid possible electrical shock from contact with the arc tube support and to avoid risk of burn from the hot arc tube.

Arcstream® Metal Halide Lamps

Arcstream® tubular-shaped lamps must be used in suitably enclosed fixtures with UV-absorbing cover glass. Enclosed fixtures must be capable of containing fragments of hot quartz or glass (up to 1100°C) in the unusual event of the outer bulb shattering. Also see complete Warning and Caution Notices on metal halide lamps.

Dimming

High Wattage CMH® lamps may be dimmed to 50% of full rated wattage. With dimming, the color shifts to a cooler (higher Kelvin) temperature and CRI decreases. The dimming of 20-150W CMH® lamps is not normally recommended. Large power reductions significantly alter the thermal characteristics of the lamp resulting in color shift. Quartz metal halide and mercury vapor lamps may be dimmed to 50% of full rated wattage. High pressure sodium lamps may be dimmed to 35%. For all dimming, the lamp must be started in full-power mode and must be operated in that mode for a minimum of fifteen minutes prior to reduced-power operation. Minimum open circuit voltage must meet ANSI requirements at full-power, during power transition, and in the reduced-power mode to prevent premature cycling (see appropriate ANSI lamp documents for specific minimum OCV requirements). Other application guidelines may apply.

Footnotes

9 Do not use this lamp in fixtures designed for less than rated lamp wattage.

14 Life shown is for vertical +15° operation.

16 Approximate lumen ratings at 45° burning position: Initial – 145,000. Mean – 124,000.

17 Rated life based on 5 or more burning hours per start.

28 Use only 1000-watt H12 or H34-type ballasts. Do not use on 1000-watt H36-type ballasts.

32 Lamp will run at 400-watts when used on a linear reactor ballast.

33 Rated life based on 11 hours per start.

38 Requires a non-ANSI designated ballast with a special, add-on metal halide ignitor. Contact your local GE representative for a list of approved ballasts and ignitors.

39 UV Control is a quartz material that effectively cuts UVB and UVC radiation.

42 Approximate lumen ratings at 45° burning position: Initial – 153,000. Mean – 139,000.

43 When operated on a 120 hrs. cycle (minimum), lamp life rating may be extended by up to 50% based on engineering estimates.

44 Rated life based on 7 hours per start.

45 Use electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs.

46 Use only with the following types of H39 175-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

47 Use only with the following types of H37 250-watt mercury ballasts: high-reactance lag-type autotransformers or 240-volt and 277-volt reactors. Do not use with CW (lead-type) or CWA ballasts.

48 Use only with the following types of H33 400-watt mercury ballasts: high-reactance lag-type autotransformers, reactors, CWA auto regulators or CW regulators.

49 Not for use with lampholders that have stainless steel center contacts to avoid lamp or lampholder damage due to arcing.

50 Not for use on Magnetic-Regulator or Electronic-Regulator ballast systems to avoid ballast overheating.

51 Use only with electronic ballast.

52 Use only with approved ballast.

Warning Notices

THE FOLLOWING WARNING NOTICES MUST BE COMPLIED WITH TO HELP AVOID POSSIBLE LAMP RUPTURE. General Electric Company will not be responsible for poor lamp performance, personal injury or property damage resulting from failure to follow these instructions.

HID LAMPS – GENERAL

WARNING

Most HID lamps are constructed of an outer bulb with an internal arc tube made of quartz. The arc tube operates under high pressure at very high temperatures—as high as approximately 1100°C. The arc tube and outer bulb may unexpectedly rupture due to internal causes or external factors such as a system failure or misapplication.

An arc tube rupture can burst and shatter the outer glass bulb resulting in the discharge of glass fragments and extremely hot quartz particles (as high as 1100°C). There is a risk of personal injury, property damage, burns and fire.

Some lamps are position-sensitive and must only be operated in specified burning positions (see "Additional Information" column in this catalog) with compatible electrical equipment in the types of fixtures prescribed in "Lamp Enclosure Type" on page 3-22 of this catalog.

In addition to the general warnings above, there are specific warnings for the HID lamp types listed below.

Metal Halide Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

In continuously operating systems (24 hours/day, 7 days/week), turn lamps off once per week for at least 15 minutes. FAILURE TO COMPLY INCREASES THE RISK OF RUPTURE.

Ceramic metal halide lamps can be operated 24/7.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

High Pressure Sodium Lamps

This is a vacuum jacket lamp and may implode if broken. As a precaution, wear safety glasses and gloves when installing or removing lamp. High pressure sodium lamps are not position-sensitive and may be operated in any burning position.

Mercury Lamps

Fixture lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C). If you do not know whether your fixture can safely withstand an arc tube rupture, contact your fixture manufacturer.

Relamp fixtures at or before the end of rated life. Beyond rated life, light output diminishes while energy consumption and risk of rupture increase.

Mercury lamps are not position-sensitive and may be operated in any burning position.

Low Pressure Sodium Lamps

These lamps contain sodium which will ignite when exposed to water. If lamps are not disposed of properly, there is a risk of fire in the disposal vessel. Consult GE for disposal instructions.

Lamp Enclosure Type

Use in Enclosed Fixtures. "Enclosed" fixture means a fixture suitably enclosed and designed to contain fragments of hot quartz or glass (up to 1100°C) in accordance with UL Standard #1598 (if in doubt, contact your fixture manufacturer).

Use In Open Fixtures. For lamps operated in the vertical position ±15° that are not designated "Enclosed Fixtures Only," lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment. For example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information, contact your fixture manufacturer.

Important Notice

In accordance to Federal Regulations (21 CFR 1040.30), the following notice applies to all lamps in the HID section of this catalog except E-Z Merc self ballasted lamps, High Pressure, Low Pressure Sodium Lamps, Saf-T-Gard® Multi-Vapor Lamps, CMH® MR16, CMH® PAR20 and CMH® PAR30.

R WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.

Warning and Caution Notices

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⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

102 – Arcstream® G12 Kr85

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

Lamp emits UV radiation which may cause eye/skin injury
- Avoid exposure of eyes and skin to unshielded lamp

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes
- ARC tube fill gas contains Kr85

103 – Arcstream® Rx7s Kr85

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use thermally protected ballast

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use in wet locations
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes
- ARC tube fill gas contains Kr85

104 – CMH® GU6.5, G12 and Mini Kr85

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Warning and Caution Notices (continued)

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast—see instructions

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes
- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

105 – CMH® HW HPS Kr85

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use electronic ballast, peak lead ballast, or system which can shut itself off if ballast overheating occurs. Does not apply to 250W CMH.®

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed luminaire with front cover made of GLASS, capable of containing the fragments of a lamp should it shatter, to avoid risk of fire. Do not use with polymeric lens.
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes
- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

106 – CMH® HW PA Kr85

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use GE approved ballast/control gear

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes
- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

107 – CMH® PAR 20-30 MR16 Kr85

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Warning and Caution Notices (continued)

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast—see instructions

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes
- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

108 – CMH® PAR38 Kr85

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken

Notes
- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

109 – CMH® TD Kr85

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Normal handling with bare hands is acceptable. Excessive handling of the quartz outer bulb should be avoided.
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

Notes
- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

110 – Kolorarc® Kr85

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast

Warning and Caution Notices (continued)

- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes
- ARC tube fill gas contains Kr85

111 – Lucalox®

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

Contains sodium—chemical burn risk
- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

112 – Lucalox® HO

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product
- Use fused or thermally protected ballast—see instructions

Contains sodium—chemical burn risk
- Avoid skin contact with broken pieces

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

113 – Mercury

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes
- ARC tube fill gas contains Kr85 (HR 1000 only)

Warning and Caution Notices (continued)

114 – Mercury Saf-T-Gard®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

115 – Mercury Self-Ballasted

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

116 – QMH E-rated Kr85 and CMH®

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week. Does not apply to CMH®
- Do not use beyond rated life
- If used on a dimming system, see instructions
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85
- CMH® lamps may operate 24 hours a day/7 days a week to rated life—no shut off required

117 – QMH HOR Enclosed Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product

Warning and Caution Notices (continued)

- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not remove base locating pin if so equipped
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

118 – QMH LW Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Turn lamp off at least once for 15 minutes per week
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes

- ARC tube fill gas contains Kr85

119 – QMH Protected

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions.
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

120 – QMH Protected Kr85

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

Warning and Caution Notices (continued)

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes
- ARC tube fill gas contains Kr85

121 – QMH S-rated

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product—see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

122 – QMH S-rated Kr85

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product—see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- If used on a dimming system, see instructions
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

Notes
- ARC tube fill gas contains Kr85

123 – QMH S-rated Saf-T-Gard®

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product—see instructions
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

Warning and Caution Notices (continued)

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

124 – Sport 1000W PAR64

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp.

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

125 – Sport MBIL-CSI-CID

⚠ WARNING

Risk of electric shock
- Turn power off before inspection, installation or removal
- Do not use where directly exposed to water or outdoors without an enclosed fixture

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury
- Avoid exposure of eyes and skin to unshielded lamp

Unexpected lamp rupture may cause injury, fire, or property damage
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use where directly exposed to water or outdoors without an enclosed fixture
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Turn lamp off at least once for 15 minutes per week
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn
- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Do not use excessive force when installing lamp

High Intensity Discharge Lamps

Cross-Reference

GE Description	Osram/ Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps	
Standard & Ecolux® HPS Lamps		
Lucalox®	**Lumalux®**	**Ceramalux™**
LU35/MED	LU35/MED	C35S76/M
LU35/D/MED	LU35/D/MED	C35S76/D/M
LU50/MED/ECO	LU50/MED	C50S68/M
LU50/D/MED/ECO	LU50/D/MED	C50S68/M
LU50/H/ECO	LU50/ECO	C50S68/ALTO
LU50/D/H/ECO	LU50/D	C50S68/D
LU70/MED/ECO	LU70/MED	C70S62/M
LU70/D/MED/ECO	LU70/D/MED	C70S62/D/M
LU70/ECO/H/ECO	LU70/ECO	C70S62/ALTO
LU70/ECO/NC	LU70/PLUS/ECO	–
LU70/D/H/ECO	LU70/D	C70S62/D
LU100/MED/ECO	LU100/MED	C100S54/M
LU100/D/MED/ECO	LU100/D/MED	C100S54/D/M
LU100/H/ECO	LU100/ECO	C100S54/ALTO
LU100/ECO/NC	LU100/PLUS/ECO	–
LU100/D/H/ECO	LU100/D	C100S54/D
LU150/MED/ECO	LU150/55/MED	CC150S55/M
LU150/D/MED/ECO	LU150/55/D/MED	C150S55/D/M
LU150/55/H/ECO	LU150/55/ECO	C150S55/ALTO
LU150/ECO/NC	LU150/55/PLUS/ECO	–
LU150/55/D/H/ECO	LU150/55/D	C150S55/D
LU150/100/H/ECO	LU150/100	C150S56/ALTO
LU200/H/ECO	LU200/ECO	C200S66
LU200/ECO/NC	LU200/PLUS/ECO	–
LU250/H/ECO	LU250/ECO	C250S50
LU250/ECO/NC	LU250/PLUS/ECO	–
LU250/D/H/ECO	LU250/D	C250S50/D
LU310	LU310/ECO	C310S67
LU400/H/ECO	LU400/ECO	C400S51
LU400/ECO/NC	LU400/PLUS/ECO	–
LU400/D	LU400/D	C400S51/D
LU750	LU750	–
LU1000/ECO	LU1000	C1000S52
Deluxe High Pressure Sodium Lamps		
Lucalox®		**Ceramalux™**
LU70/DX/MED	–	C70S62/C/M
LU150/DX/MED	–	C150S55/C/M
LU150/55/DX	–	C150S55/C
LU250/DX	–	C250S50/C
LU400/DX	–	C400S51/C
Standby Longlife High Pressure Sodium Lamps		
Lucalox®	**Lumalux®**	**Ceramalux™**
LU70/SBY/XL	LU70/SBY	C70S62/2
LU100/SBY/XL	LU100/SBY	C100S54/2
LU150/55/SBY/XL	LU150/55ISBY	C150S55/2
LU200/SBY/XL	LU200/100/SBY	–
LU250/SBY/XL	LU250/SBY	C250S50/2
LU400/SBY/XL	LU400/SBY	C400S51/2
LU1000/SBY/XL	LU1000/SBY	C1000S52/2
EZ-LUX® High Pressure Sodium Lamps		
E-Z LUX®	**Unalux®**	**Ceramalux™**
LUH150/EZ	ULX150	C150S63 RETROLUX
LUH215/EZ	UIX215	C215S675 RETROLUX
LUH360/EZ	ULX360	C360S64 RETROLUX
Ceramic Metal Halide Lamps		
CMH®	**Powerball®**	**MasterColor®**
CMH20/MR16/830/SP	–	–
CMH20/MR16/830/FL	–	–
CMH20/MR16/830/WFL	–	–
CMH39MR16/930/SP	–	–
CMH39MR16/930/FL	–	–

GE Description	Osram/ Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps	
Ceramic Metal Halide Lamps (continued)		
CMH®	**Powerball®**	**MasterColor®**
CMH39MR16/930/WFL	–	–
CMH39MR16/942/SP	–	–
CMH39MR16/942/FL	–	–
CMH39MR16/942/WFL	–	–
CMH20/PAR20/SP	–	–
CMH20/PAR20/FL	–	–
CMH20/PAR30/SP10	MCP20PAR30LN/U/830/SP	–
CMH20/PAR30/SP15	–	–
CMH20/PAR30/FL25	MCP20PAR30LN/U/830/FL	CDM20/PAR30/L/MFL/3K
CMH39/PAR20/830/SP10	MCP39PAR20/U/830/SP	CDM35/PAR20/M/SP3K
CMH39/PAR20/830/FL30	MCP39PAR20/U/830/FL	CDM35/PAR20/M/FL3K
CMH39/PAR20/NSP4K	–	CDM35/PAR20/M/SP/4K
CMH39/PAR20/FL4K	–	CDM35/PAR20/M/FL/4K
CMH39/PAR30L/830/SP10	MCP39PAR30LN/U/830/SP	CDM35/PAR30L/M/SP
CMH39/PAR30L/830/SP15	–	–
CMH39/PAR30L/830/FL25	MCP39PAR30LN/U/830/FL	CDM35/PAR30L/M/FL
CMH39/PAR30LN54PK	–	–
CMH39/PAR30L/SP4K	–	–
CMH39/PAR30L/FL4K	–	–
CMH70/PAR30L/830/SP15	MCP70PAR30LN/U/830/SP	CDM70/PAR30L/M/SP
CMH70/PAR30L/830/FL40	MCP70PAR30LN/U/830/FL	CDM70/PAR30L/M/FL
CMH70/PAR38/830/SP15	MCP70PAR38/U/830/SP	CDM70/PAR38/SP/3K
CMH70/PAR38/830/FL25	MCP70PAR38/U/830/FL	CDM70/PAR38/FL/3K
CMH70/PAR38/830/WFL	MCP70PAR38/U/830/WFL	CDM70/PAR38/WFL/3K
CMH100/PAR38/830/SP15	MCP100PAR38/U/830/SP	CDM100/PAR38/SP/3K
CMH100/PAR38/830/FL25	MCP100PAR38/U/830/FL	CDM100/PAR38/FL/3K
CMH100/PAR38/830/WFL	MCP100PAR38/U/830/WFL	CDM100/PAR38/WFL/3K
CMH70/U/830/MED	MCP70/U/MED/830	MHC70/U/M/3K
CMH70/C/U/830/MED	MCP70/C/U/MED/830	MHC70/C/U/M/3K
CMH100/U/830/MED	MCP100/U/MED/830	MHC100/U/M/3K
CMH100/C/U/830/MED	MCP100/C/U/MED/830	MHC100/C/U/M/3K
CMH70/U/830/MED/O	MCP70/U/MED/830	MHC70/U/MP/3K/ALTO
CMH70/C/U/830/MED/O	MCP70/C/U/MED/830	MHC70/C/U/MP/3K/ALTO
CMH70/U/942/MED/O	MCP70/U/MED/940	MHC70/U/MP/4K/ALTO
CMH70/C/U/942/MED/O	MCP70/C/U/MED/940	MHC70/C/U/MP/4K/ALTO
CMH150/U/830/MED/O	MCP150/U/MED/830	MCH150/U/MP/3K/ALTO
CMH150/C/U/830/MED/O	MCP150/C/U/MED/830	MHC150/C/U/MP/3K/ALTO
CMH150/U/942/MED/O	–	MHC150/U/MP/4K/ALTO
CMH150/C/U/942/MED/O	–	MHC150/C/U/MP/4K/ALTO
CMH20/T/U/830/G12	–	–
CMH39/T/U/830/G12	MC39T6/U/G12/830	CDM35/T6/830
CMH39/TC/U/942/G12	MC39T6/U/G12/940	CDM35/T6/842
CMH70/T/U/830/G12	MC70T6/U/G12/830	CDM70/T6/830
CMH70/T/U/942/G12	MC70T6/U/G12/940	CDM70/T6/942
CMH150/T/U/830/G12	MC150T6/U/G12/830	CDM150/T6/830
CMH150/T/U/942/G12	MC150T6/U/G12/940	CDM150/T6/942
CMH70/TD/830/Rx7s	MC70T6/DE/830	CDM70/TD/830
CMH70/TD/942/Rx7s	–	CDM70/TD/942
CMH150/TD/830/Rx7s	MC150T6/DE/830	CDM150/TD/830
CMH150/TD/942/Rx7s	–	CDM150/TD/942
CMH250/V/PA/O	MCP250/PS/BU only	CDM250/V/O/PS/4K
CMH250C/V/PA/O	MCP250/C/PS/BU only	CDM250/C/V/O/PS/4K
CMH320/V/PA/O	MCP320/PS/BU only	CDM320/V/O/PS/4K
CMH320C/V/PA/O	MCP320/C/PS BU only	CDM320/C/V/O/PS/4K
CMH350/V/PA/O	–	CDM350/V/O/PS/4K
CMH350C/V/PA/O	–	CDM350/C/V/O/PS/4K
CMH400/V/PA/O	–	CDM400/V/O/PS/4K
CMH400C/V/PA/O	–	CDM400/C/V/O/PS/4K
CMH20/T/C/U/830/GU6.5	–	–
CMH39T/U930GU6.5	–	–
CMH39T/U942GU6.5	–	–
CMH20/TC/U/830/G8.5	MC20TC/U/G8.5/830	–

Cross-Reference (continued)

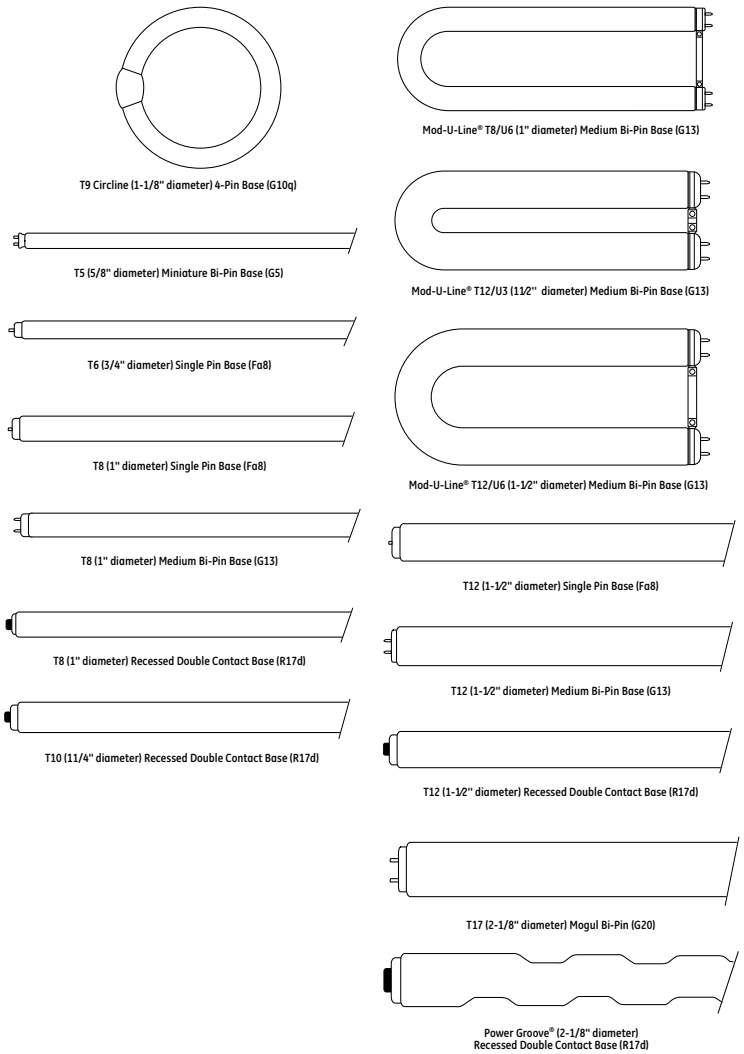
GE Description	Osram/ Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps	
Ceramic Metal Halide Lamps (continued)		
CMH®	**Powerball®**	**MasterColor®**
CMH39/TC/U/830/G8.5	MC39TC/U/G8.5/830	CDM35/TC/830
CMH39/TC/U/942/G8.5	MC39TC/U/G8.5/942	CDM35/TC/942
CMH70/TC/U/830/G8.5	MC70TC/U/G8.5/830	CDM70/TC/830
CMH70/TC/U/942/G8.5	MC70TC/U/G8.5/942	CDM70/TC/942
CMH250/U/830/R		CDM250S50/V/O/4K
CMH400/U/830/R		CDM400S51/V/O/4K
Multi-Vapor® PulseArc® Metal Halide Lamps		
PulseArc®	**MetalArc®**	
MXR32C/VBU	–	–
MXR50/U/MED	MP50/U/MED	MH50/U/M
MXR50/C/U/MED	MP50/C/U/MED	MH50/C/U/M
MXR70/U/MED	MH70/U/MED	MHC70/U/M/3K
MXR70/C/U/MED	MH70/C/U/MED	MHC70/C/U/M/3K
MXR70/U/MED/O	MP70/U/MED	MHC70/C/U/M/3K
MXR70/C/U/MED/O	MP70/C/U/MED	MHC70/C/U/M/3K
MXR100/U/MED	M100/U/MRD	MHC100/U/M/3K
MXR100/C/U/MED	MH100/C/U/MED	MHC100/C/U/M/3K
MVR100/U/MED	MH100/U/4K/MED	MHC100/U/M/4K
MVR100/C/U/MED	–	MHC100/C/U/M/4K
MXR100/U/MED/O	MP100/U/MED	MHC100/U/M/3K
MXR100/C/U/MED/O	MP100/C/U/MED	MHC100/C/U/M/3K
MXR150/U/MED	M150/U/MED	MH150/U/M
MXR150/C/U/MED	M150/C/U/MED	MH150/C/U/M
MVR175/VBU/PA	MS175/PS/BU	MS175/BU/PS
MVR175/C/VBU/PA	MS175/C/PS/BU	–
MVR250/VBU/PA	MS250/PS/BU	MS250/BU/PS
MVR250/C/VBU/PA	MS250/C/PS/BU	–
MVR250/HOR/PA	M250/PS/U	–
MVR320/VBU/HO/PA	MS320/PS/BU	MS320/BU/PS
MVR320/C/VBU/HO/PA	MS320/C/PS/BU-HOR	MS320/C/BU/PS
MPR320/VBU/XHO/PA	MP320/350/PS/BU	MP320/BU/PS
MPR320/C/VBU/XHO/PA	MP320/350/C/PS/BU	MP320/C/BU/PS
MVR320/HOR/PA	M320/PS/BU-HOR	MS320/PS/U
MPR350/VBU/PA	MP320/350/PS/BU	MP350/BU/PS
MPR350/C/VBU/PA	MP320/350/C/PS/BU	MP350/C/BU/PS
MPR400/VBU/XHO/PA	MP350/400/PS/BU	MP400/BU/PS
MPR400/C/VBU/XHO/PA	MP350/400/C/PS/BU	MP400/C/BU/PS
MVR400/HOR/PA	M400/PS/U	MS400/HOR/PS
MVR400/HOR/ED28/PA	M400/PS/U/BT28	–
MVR750/VBU/PA	MS750/PS/BU-HOR/BT37	–
MVR750/C/VBU/PA	MS750/C/PS/BU-HOR/BT37	–
MVR1000/BT37/PA	M1000/PS/U/BT37	MS1000/BU/BT37/PS
Multi-Vapor® Standard Metal Halide Lamps		
Multi-Vapor®	**MetalArc®**	
MVR175/U/MED	M175/U/MED	MH175/U/M
MVR175/C/U/MED	M175/C/U/MED	MH175/C/U/M
MVR175/U	M175/U	MH175/U
MVR175/C/U	M175/C/U	MH175/C/U
MVR175/HOR	MS175/HOR	MS175/HOR
MVR175/C/HOR	MS175/C/HOR	MS175/C/HOR
MVR250/U	M250/U	MH250/U
MVR250/C/U	M250/C/U	MH250/C/U
MVR250/SP30/U	M2503K/BU-only	MH250/3K/BU
MVR250/HOR	MS250/HOR	MS250/HOR
MVR250/C/HOR	MS250/C/HOR	MS250/C/HOR
MVR400/U	M400/U	MH400/U
MVR400/C/U	M400/C/U	MH400/C/U
MVR400/SP30/U	MS400/BU	MH400/3K/U
MVR400/VBU	MS400/BU	MS400/BU
MVR400/VBD	MS400/BD	–
MVR400/C/VBU	MS400/C/BU&	MS400/C/BU&

GE Description	Osram/ Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps	
Multi-Vapor® Standard Metal Halide Lamps (continued)		
Multi-Vapor®	**MetalArc®**	
MVR400/C/VBD	MS400/C/BD	–
MVR400/HOR	MS400/HOR	MS400/HOR
MVR400/C/HOR	MS400/C/HOR	MS400/C/HOR
MVR400/SP30/HOR	MS400/3K/HOR	–
MPR400/U	MP400/BU	MP400/U
MPR400/VBU	MP400/BU/BD	–
MVR1000/U	M1000/U	MH1000/U
MVR1000/C/U	M1000/C/U	MH1000/C/U
MVR1000/VBU	MS1000/BU	MS1000/BU
MPR1000/VBU/O	MP1000/BU	MP1000/BU
MVR1500/U/SPORTS	M1500/BU-HOR	MH1500BU
MVR250/HOR/PA	MS250/PS/U	–
MVR320/HOR/PA	MS320/PS/BV-HOR	MS320/PS/U
MVR400/HOR/ED28/PA	M400/PS/U/BT28	–
Double-Ended Lamps		
PulseArc®	**MetalArc®**	
ARC70/TD/730/R7S	HQI-DE70/WDX	CDM70/TD/830
ARC70/TD/743/R7S	–	MHN70/TD/840
ARC150/TD/730/R7S	HQI-DE150/WDX	CDM150/TD/830
ARC150/TD/742/R7S	HQI-DE150/NDX	MHN150/TD/840
Safety Metal Halide Lamps		
MVT400/VBU	MPT400/BU	MHT400/U
MVT400/C/VBU	MPT400/C/BU	MHT400/C/U
Mercury Vapor Lamps		
HR40/50DX45-46	H45/46DL-40/50/DX	H46DL-40-50/DX
HR75DX43	H43AV-75/DX	H43AV-75/DX
HR100A38/A23	–	–
HR100DX38/A23	H38AV-100/DX	H38MP-100/DX
HR100A38	H38HT-100	H38HT-100
HR100DX38	H38JA-100/DX	H38JA-100/DX
HR100WDX38	H38JA-100/N	–
HR100RFL38	–	–
HR100RDXFL38	H38BP-100/DX	H38BP-100/DX
HR175A39	H39KB-175	H39KB-175
HR175DX39	H39KC-175/DX	H39KC-175/DX
HT175DX39	H39KC-T175/DX	H39KC-T175
HR175WDX39	H39KC-175/N	–
HR175RFL39	–	H39BM-175
HR175RDXFL39	H39BP-175/DX	H39BP-175/DX
HR250A37	H37KB-250	H37KB-250
HR250DX37	H37KC-250/DX	H37KC-250/DX
HR400A33	H33CD-400	H33CD-400
HR400DX33	H33GL-400/DX	H33GL-400/DX
HR400DX33BT	–	–
HT400DX33	H33GL-T400/DX	H33GL-T400/DX
HR400WDX33	H33GL-400/N	–
HR400RDX33	–	H33DN-400/DX
HR400RDXFL33	–	H33FS-400/DX
HR1000DX34	H34GW-1000/DX	H34GW-1000/DX
HR1000A36	H36GV-1000	H36GV-1000
HR1000DX36	H36GW-1000/DX	H36GW-1000/DX
Self-Ballasted Mercury Vapor Lamps		
E-Z MERC®		
HSB160/M	–	–
HSB250	–	S250E28/DX
HSB250/M	–	S250E28/DX/M
HSB450	–	S450BT37/C
HSB750R/120	–	S750R57

Fluorescent Lamps

Fluorescent Lamps

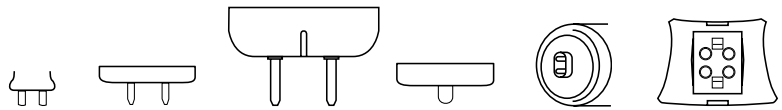
Lamp Locator (not drawn to scale)



For the most up-to-date product information, see www.gelighting.com.

Fluorescent Lamps

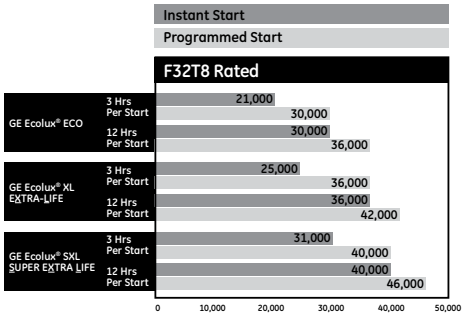
Base Identification



Introduction

GE introduced the first fluorescent lamp in 1939. Today, these lamps have become almost a universal standard in office and other lighting applications. The characteristics of fluorescent lamps vary widely according to the lamp type. In general, fluorescent lamps have the following advantages:

- **Low Operating Cost:**
  Efficient, fluorescent lamps can cost significantly less to operate over their lifetime than incandescent lamps. Many common linear fluorescent lamps now have energy-saving versions often designated in this catalog by Watt-Miser® (WM).
- **Long Life:**
  Life ratings for fluorescent lamps range from 6,000 to 36,000 hours based on the industry standard of 3 burning hours per start, except where noted.
- **Light Quality:**
  GE Starcoat® T5 and T8 lamps offer higher color rendering and lumen maintenance of 92%-95%.
- **Flexibility:**
  Fluorescent lamps are available in a wide range of sizes, shapes, color performance, and wattage ratings.
- **Fast Starting:**
  Rapid Start and Instant Start lamps typically start within 1 second of being turned on.



Life ratings are based on engineering data on programmed start ballasts with lamps cycled every 3 operating hours. Lamp life is approximately 35% longer @ 3 hours per start and 20% longer @ 12 hours per start on programmed start ballasts as compared to standard instant start ballasts.

GE	OSRAM/SYLVANIA	PHILIPS
Aquarium/Terrarium	—	—
Chroma 50	Design 50®	Colortone 50
covRguard®	—	Tuff Away®
Ecolux®	Ecologic	Alto
Gro & Sho™/Plant & Aquarium	GRO-LUX®	Agro-Lite
Kitchen and Bath ULTRA™	Interior Design® (D30)	Softone Pastel FL (SPEC 30)
Mod-U-Line®	Curvalume®	U-Bent
Power Groove®	—	—
Specification Series (SP)	Designer® Series (D)	SPEC Series
Specification Series (SPX)	Designer® "800" Series	Ultralume™
Starcoat®	—	—
T5	Pentron®	Silhouette™
T8	Octron®	TL70/TL80™
T10/1500MA	VHO/LT	—
/1500	VHO	VHO
Watt-Miser®	SuperSaver®	Econ-o-Watt
Watt-Miser® Plus	SuperSaver Plus®	—
XL	XP	Plus

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications and product offerings should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

See www.gelighting.com e-Catalog for a comprehensive cross-reference tool.

Product Information

GE T5 Starcoat® Ecolux® Lamps (pg 4-8)

- Used in a variety of applications from indirect fixtures in commercial office buildings to warehouses and manufacturing facilities
- Many combinations of wattage and length provide flexibility of fixture design and ceiling layout
- Longer rated life at 30,000 hours
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE Ultra Energy Saving T5 Lamps (pg 4-8 to 4-9)

- High Output Watt-Miser®: Over 5% energy savings versus standard Starcoat® T5 HO lamps. Same lumen output. Great for use in high-bay systems.
- High Efficiency Watt-Misers®: Over 5% energy savings versus standard Starcoat® T5 HE lamps. Same lumen output. Available in four different lengths.
- High Lumen T5: 5% greater lumen output versus standard Starcoat® F28WT5 lamps. Same wattage. Great for new commercial troffers.
- Excellent color rendering – 85 CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA).

GE T8 Starcoat® Ecolux® Lamps (pgs 4-9 to 4-10)

- More light over life – 95% lumen maintenance
- Enhanced color rendering…available in 700 and 800 series
- High system efficiency, relative to T12, delivers significant energy cost savings
- TCLP Compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE Starcoat® Ecolux® XL Extra-Life lamps (pg 4-10)

- Same great features of the T8 Starcoat® Ecolux®…with longer life…up to 20% longer than standard T8 lamps

GE Ultra Energy Saving T8 Lamps 2ft and 3ft T8 Watt-Misers® (pg 4-10)

- New energy-saving alternative to standard 2ft and 3ft T8 lamps. Up to 12% energy savings versus standard F17T8 and/or F25T8 lamps.
- New F17T8/XL/SPX/WM lamp = 15W. New F25T8/XL/SPX/WM lamp = 22W
- Excellent color rendering – 80+ CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA).

GE Ultra Energy Saving T8 Lamps 4ft T8 25 Watt Lamp (pg 4-11)

- Lowest wattage 4ft T8 currently available.
- Long rated life! 36,000+ depending on ballast type and burn cycle
- Operates on any T8 Instant Start ballast; also approved on GE UltraStart® PRS ballast
- Excellent color rendering – 80+ CRI
- TCLP compliant, lowering disposal costs where applicable (state regulations vary, consult your state EPA)

GE Ultra Energy Saving T8 Lamps T8 28W UltraMax® (pg 4-11)

- Highly efficient T8 system utilizing the new 28W T8 lamp designed for optimal use on the GE UltraMax® ballast product family
- Operates on any standard T8 Instant Start Ballast
- Also approved for use on GE UltraStart® PRS Ballast
- 80+ CRI (Color Rendering Index) and TCLP compliant

GE Ultra Energy Saving T8 Lamps T8 30W Watt-Miser® (pg 4-11)

- Energy-saving replacement lamp for all standard T8's on Instant Start Ballast systems
- Up to 5% savings over 32W T8 systems with maintained light levels
- Operates on any standard T8 Instant Start Ballast
- Also approved for use on GE UltraStart® PRS Ballast
- Available in XL version – 20% longer life than standard T8 lamps
- 80+ CRI (Color Rendering Index) and TCLP compliant

GE Ultra Energy Saving T8 Lamps T8 32W High Lumen Lamps (HL) (pg 4-11)

- 5-8% more lumens than GE 32W T8 SP and SPX
- 3100 initial lumens allows you to increase light levels over a standard T8 or the option to implement a de-lamp or de-fixture strategy
- 20% longer life over GE F32T8
- 80+ CRI (Color Rendering Index) and TCLP compliant

GE 8' T8 Lamps (pg 4-11)

- One of the most efficient fluorescent products available, up to 97 lumens per watt (LPW)
- Single-pin based lamps designed to operate on Instant Start Ballast
- Available in longer life (XL) versions…up to 17% longer life

GE 8' T8 Watt-Miser® (XL) Extra-Life Lamps (Energy Savings Alternative) (pg 4-12)

- Extra-life…lasts 17% longer than standard F96T8 lamps for reduced lamp replacement and maintenance cost
- Maximum energy savings…up to 3.5% less energy consumed than standard F96T8 lamps
- Same light output as standard lamps
- Excellent color…color-enhanced SP and SPX versions
- Watt-Miser® Plus lamp reduces wattage to 54W per lamp

GE 8' T8 High Output Lamps (pg 4-12)

- High system efficiency delivers 38% energy cost savings
- 50% longer life than T12 high output lamps
- Wide choice of color options
- Operate at 400mA

GE T8 Mod-U-Line® U-Shaped Fluorescent Lamps (pg 4-12)

- Primarily used in 2x2 fixtures with prismatic or parabolic lenses
- Lower energy cost…36% energy cost savings vs. F40T12 U-Tubes
- New Watt-Miser® version saves even more money!
- Longer lamp life than T12 Mod-U-Line® – 20,000 hours
- 700 and 800 Series

Product Information (continued)

GE 4' T12 Watt-Miser® Ecolux® Energy Saving Lamps (WM) (pg 4-13 to 4-15)

- Energy-saving replacement for all standard T12 fluorescent lamps
- 12% to 20% savings in energy costs vs. standard fluorescent
- TCLP compliant, lowering disposal costs where applicable (state and local regulations vary, consult your state EPA)

GE T12 High Output Lamps (pg 4-16 to 4-18)

- High light output and long life
- Produces about 45% more initial lumens than standard lamps of the same size
- Usually operated at 800mA

GE T12 Very High Output Lamps (pg 4-18)

- Where high light levels are required – factories, warehouses, gymnasiums, open areas
- Rapid Start, operated at 1500mA

covRguard® Shatter Resistant Fluorescent Lamps (pg 4-19 to 4-20)

- Polycarbonate shield effectively contains shattered glass particles if lamp is broken, protecting people, food and other valuable items
- UV-blocking properties guard against fading and UV degradation
- Available in a variety of colors for decorative and architectural applications
- The covRguard® feature is available on nearly all fluorescent lamps

GE Cold-Temperature Lamps (pg 4-23 to 4-24)

- Specifically designed for cold-temperature applications such as freezers and coolers, display cases and outdoor areas
- Available in T5, T8, T10 and T12 versions
- Rated nominal watts and initial lumens are peak values. Actual watt and lumen values may be somewhat lower in service, depending on ambient conditions.

GE Appliance Lamps (pg 4-24)

- Designed for intermittent service in appliances such as oven hoods and microwaves

GE Blacklight/Blacklight Blue Lamps (pgs 4-24 to 4-25)

- Blacklight (BL) lamps are commonly used in insect traps
- Blacklight Blue (BLB) lamps are often used decoratively in disco lighting and theatrical applications. These lamps are produced with a special dark blue glass that filters most visible light.

GE Gold Lamps (pg 4-25 to 4-26)

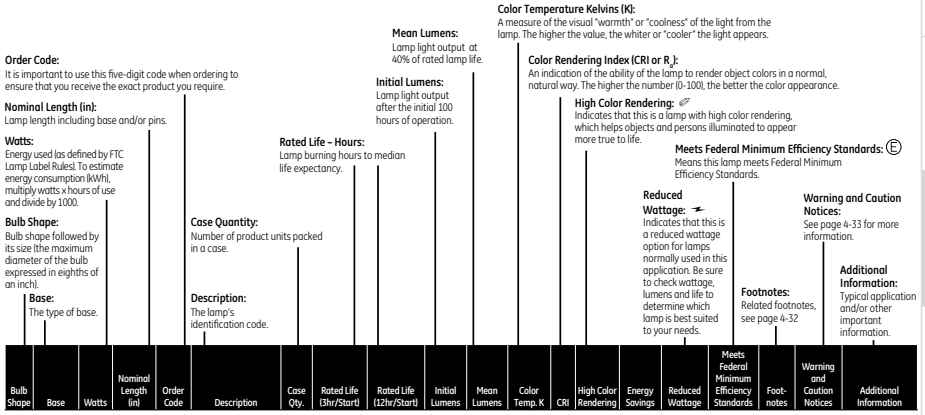
- Effectively blocks all UV emissions below 520nm
- Available in covRguard®
- Used in photo-sensitive applications such as semi-conductor assembly and darkrooms

GE Germicidal Lamps (pg 4-26)

- Clear lamps with special UV transmitting glass
- The 254nm radiation penetrates and inactivates the DNA of most micro-organisms
- Used in air, water and surface purification applications

Headings in this catalog section

The following terms and descriptions can help you when checking Fluorescent lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage, then bulb, and then by base. There are exceptions to this ordering among the specialty lamps listed.



WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using table on page 4-3.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 4-4.
4. Find your lamp in the table containing the bulb shape, size and base.

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3hr/Start)	Rated Life (12hr/Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Foot-notes	Warning and Caution Notices	Additional Information
T5 Starcoat® Ecolux® Lamps																			
T5 High Efficiency																			
T5	Miniature Bi-Pin (G5)	14	21.6	31590	F14W/T5/830/ECO	40	30000	36000	1350	1240	3000	85					19	101	
		14	21.6	46671	F14W/T5/835/ECO	40	30000	36000	1350	1240	3500	85					19	101	
		14	21.6	46673	F14W/T5/841/ECO	40	30000	36000	1350	1240	4100	85					19	101	
		14	21.6	46674	F14W/T5/850/ECO	40	30000	36000	1300	1190	5000	85					19	101	
		14	21.6	46676	F14W/T5/865/ECO	40	30000	36000	1250	1150	6500	85					19	101	
		21	33.4	46677	F21W/T5/830/ECO	40	30000	36000	2100	1930	3000	85					19	101	
		21	33.4	46684	F21W/T5/835/ECO	40	30000	36000	2100	1930	3500	85					19	101	
		21	33.4	46687	F21W/T5/841/ECO	40	30000	36000	2100	1930	4100	85					19	101	
		21	33.4	46688	F21W/T5/850/ECO	40	30000	36000	2000	1840	5000	85					19	101	
		21	33.4	46689	F21W/T5/865/ECO	40	30000	36000	1950	1790	6500	85					19	101	
		28	45.2	46704	F28W/T5/830/ECO	40	30000	36000	2900	2660	3000	85					19	101	
		28	45.2	46705	F28W/T5/835/ECO	40	30000	36000	2900	2660	3500	85					19	101	
		28	45.2	46706	F28W/T5/841/ECO	40	30000	36000	2900	2660	4100	85					19	101	
		28	45.2	46707	F28W/T5/850/ECO	40	30000	36000	2750	2530	5000	85					19	101	
		28	45.2	46708	F28W/T5/865/ECO	40	30000	36000	2700	2480	6500	85					19	101	
		35	57.1	46724	F35W/T5/830/ECO	40	30000	36000	3650	3350	3000	85					19	101	
		35	57.1	46727	F35W/T5/835/ECO	40	30000	36000	3650	3350	3500	85					19	101	
		35	57.1	46735	F35W/T5/841ECO	40	30000	36000	3650	3350	4100	85					19	101	
		35	57.1	46742	F35W/T5/850/ECO	40	30000	36000	3500	3220	5000	85					19	101	
		35	57.1	46743	F35W/T5/865/ECO	40	30000	36000	3400	3120	6500	85					19	101	
T5 High Output																			
T5	Miniature Bi-Pin (G5)	24	21.6	46699	F24W/T5/830/ECO	40	30000	36000	2000	1840	3000	85					19	101	
		24	21.6	46700	F24W/T5/835/ECO	40	30000	36000	2000	1840	3500	85					19	101	
		24	21.6	46701	F24W/T5/841/ECO	40	30000	36000	2000	1840	4100	85					19	101	
		24	21.6	46702	F24W/T5/850/ECO	40	30000	36000	1900	1740	5000	85					19	101	
		24	21.6	46703	F24W/T5/865/ECO	40	30000	36000	1880	1740	6500	85					19	101	
		39	33.4	46744	F39W/T5/830/ECO	40	30000	36000	3500	3220	3000	85					19	101	
		39	33.4	46745	F39W/T5/835/ECO	40	30000	36000	3500	3220	3500	85					19	101	
		39	33.4	46746	F39W/T5/841/ECO	40	30000	36000	3500	3220	4100	85					19	101	
		39	33.4	46747	F39W/T5/850/ECO	40	30000	36000	3350	3080	5000	85					19	101	
		39	33.4	46748	F39W/T5/865/ECO	40	30000	36000	3330	3060	6500	85					19	101	
		54	45.2	46759	F54W/T5/830/ECO	40	30000	36000	5000	4600	3000	85					19	101	
		54	45.2	46760	F54W/T5/835/ECO	40	30000	36000	5000	4600	3500	85					19	101	
		54	45.2	46761	F54W/T5/841/ECO	40	30000	36000	5000	4600	4100	85					19	101	
		54	45.2	46762	F54W/T5/850/ECO	40	30000	36000	4800	4410	5000	85					19	101	
		54	45.2	46763	F54W/T5/865/ECO	40	30000	36000	4750	4370	6500	85					19	101	
		80	57.1	46802	F80W/T5/830/ECO	40	30000	36000	7000	6440	3000	85					19	101	
		80	57.1	46803	F80W/T5/835/ECO	40	30000	36000	7000	6440	3500	85					19	101	
		80	57.1	46804	F80W/T5/841/ECO	40	30000	36000	7000	6440	4100	85					19	101	
		80	57.1	46805	F80W/T5/850/ECO	40	30000	36000	6700	6160	5000	85					19	101	
		80	57.1	46806	F80W/T5/865/ECO	40	30000	36000	6650	6110	6500	85					19	101	
Ultra Energy Saving T5 Lamps																			
T5 High Efficiency Watt-Miser®																			
T5	Miniature Bi-Pin (G5)	13	21.6	71632	F14T5/830/WM/ECO	40	25000	30000	1350	1240	3000	85		$			19	101	
		13	21.6	71633	F14T5/835/WM/ECO	40	25000	30000	1350	1240	3500	85		$			19	101	
		13	21.6	71634	F14T5/841/WM/ECO	40	25000	30000	1350	1240	4100	85		$			19	101	
		13	21.6	71635	F14T5/850/WM/ECO	40	25000	30000	1300	1190	5000	85		$			19	101	
		13	21.6	71636	F14T5/865/WM/ECO	40	25000	30000	1250	1150	6500	85		$			19	101	
		20	33.4	71637	F21T5/830/WM/ECO	40	25000	30000	2100	1930	3000	85		$			19	101	
		20	33.4	71638	F21T5/835/WM/ECO	40	25000	30000	2100	1930	3500	85		$			19	101	
		20	33.4	71639	F21T5/841/WM/ECO	40	25000	30000	2100	1930	4100	85		$			19	101	
		20	33.4	71640	F21T5/850/WM/ECO	40	25000	30000	2000	1840	5000	85		$			19	101	
		20	33.4	71641	F21T5/865/WM/ECO	40	25000	30000	1950	1790	6500	85		$			19	101	
		26	45.2	71642	F28T5/830/WM/ECO	40	25000	30000	2900	2660	3000	85		$			19	101	
		26	45.2	71643	F28T5/835/WM/ECO	40	25000	30000	2900	2660	3500	85		$			19	101	
		26	45.2	71644	F28T5/841/WM/ECO	40	25000	30000	2900	2660	4100	85		$			19	101	
		26	45.2	71645	F28T5/850/WM/ECO	40	25000	30000	2750	2530	5000	85		$			19	101	
		26	45.2	71646	F28T5/865/WM/ECO	40	25000	30000	2700	2480	6500	85		$			19	101	

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes, warning and caution notices found at the end of this section (page 4-32).

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3hr/Start)	Rated Life (12hr/Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Foot-notes	Warning and Caution Notices	Additional Information
Ultra Energy Saving T5 Lamps (continued)																			
T5 High Efficiency Watt-Miser® (continued)																			
T5	Miniature Bi-pin (G5)	33	57.1	71647	F35T5/830/WM/ECO	40	25000	30000	3650	3350	3000	85		$			19	101	
		33	57.1	71648	F35T5/835/WM/ECO	40	25000	30000	3650	3350	3500	85		$			19	101	
		33	57.1	71649	F35T5/841/WM/ECO	40	25000	30000	3650	3350	4100	85		$			19	101	
		33	57.1	71650	F35T5/850/WM/ECO	40	25000	30000	3500	3220	5000	85		$			19	101	
		33	57.1	71651	F35T5/865/WM/ECO	40	25000	30000	3400	3120	6500	85		$			19	101	
T5 High Output Watt-Miser®																			
T5	Miniature Bi-Pin (G5)	51	45.2	71627	F54T5/830/WM/ECO	40	25000	30000	5000	4600	3000	85		$			19	101	
		51	45.2	71628	F54T5/835/WM/ECO	40	25000	30000	5000	4600	3500	85		$			19	101	
		51	45.2	71629	F54T5/841/WM/ECO	40	25000	30000	5000	4600	4100	85		$			19	101	
		51	45.2 cm	71630	F54T5/850/WM/ECO	40	25000	30000	4790	4410	5000	85		$			19	101	
		51	45.2	71631	F54T5/865/WM/ECO	40	25000	30000	4750	4370	6500	85		$			19	101	
T5 High Lumen																			
T5	Miniature Bi-Pin (G5)	28	45.2 cm	71652	F28WT5/830/HL/ECO	40	20000	24000	3050	2810	3000	85		$			19	101	
		28	45.2 cm	71653	F28WT5/835/HL/ECO	40	20000	24000	3050	2810	3500	85		$			19	101	
		28	45.2 cm	71654	F28WT5/841/HL/ECO	40	20000	24000	3050	2810	4100	85		$			19	101	
		28	45.2 cm	71655	F28WT5/850/HL/ECO	40	20000	24000	2900	2670	5000	85		$			19	101	
		28	45.2 cm	71656	F28WT5/865/HL/ECO	40	20000	24000	2850	2620	6500	85		$			19	101	
T5 Preheat Lamps																			
6" T5																			
T5	Miniature Bi-Pin (G5)	4	6.0	10004	F4T5/CW	24	5000		135	100	4100	60						101	
		4	6.0	15983	F4T5/CW CARD	10	5000		135	100	4100	60						101	
		4	6.0	29089	F4T5/WW/CD	10	5000		140	105	3000	52						101	
9" T5																			
T5	Miniature Bi-Pin (G5)	6	9.0	10032	F6T5/CW	24	5000		295	235	4100	60						101	
		6	9.0	15986	F6T5/CW CARD	10	5000		295	235	4100	60						101	
		6	9.0	90062	F6T5/XL/CW	24	8000		260	210	4100	60						101	
		6	9.0	10028	F6T5/D	24	5000		230	185	6500	75						101	
12" T5																			
T5	Miniature Bi-Pin (G5)	8	12.0	10059	F8T5/CW	24	5000		400	320	4100	60						101	
		8	12.0	15987	F8T5/CW CARD	10	5000		400	320	4100	60						101	
		8	12.0	90063	F8T5/XL/CW	24	8000		400	320	4100	60						101	
		8	12.0	10055	F8T5/D	24	5000		330	265	6500	75						101	
		8	12.0	10064	F8T5/WW	24	5000		410	330	3000	52						101	
		8	12.0	25425	F8T5/WW/CARD	5	5000		410	330	3000	52						101	
21" T5																			
T5	Miniature Bi-Pin (G5)	13	21.0	10086	F13T5/CW	24	5000		850	705	4100	60						101	
		13	21.0	49333	F13T5/CW/CD	5	5000		850	705	4100	60						101	
		13	21.0	90064	F13T5/XL/CW	24	8000		830	690	4100	60						101	
		13	21.0	10089	F13T5/WW	24	5000		870	720	3000	52						101	
		13	21.0	25426	F13T5/WW/CARD	5	5000		870	720	3000	52						101	
T8 Starcoat® Lamps																			
2' T8 Ecolux®																			
T8	Medium Bi-Pin (G13)	17	24.0	45741	F17T8/SP30/ECO	24	20000	24000	1325	1260	3000	78					18	101	
		17	24.0	45743	F17T8/SP35/ECO	24	20000	24000	1325	1260	3500	78					18	101	
		17	24.0	45748	F17T8/SP41/ECO	24	20000	24000	1325	1260	4100	78					18	101	
		17	24.0	45742	F17T8/SPX30/ECO	24	20000	24000	1350	1280	3000	86					18	101	
		17	24.0	45747	F17T8/SPX35/ECO	24	20000	24000	1350	1280	3500	86					18	101	
		17	24.0	45749	F17T8/SPX41/ECO	24	20000	24000	1350	1280	4100	86					18	101	
2' T8 Ecolux® XL Extra-life																			
T8	Medium Bi-Pin (G13)	17	24.0	15476	F17T8/XL/SP30/ECO	24	24000	29000	1325	1260	3000	78					18	101	
		17	24.0	15479	F17T8/XL/SP35/ECO	24	24000	29000	1325	1260	3500	78					18	101	
		17	24.0	15480	F17T8/XL/SP41/ECO	24	24000	29000	1325	1260	4100	78					18	101	
		17	24.0	15481	F17T8/XL/SPX30/ECO	24	24000	29000	1350	1280	3000	86					18	101	
		17	24.0	15483	F17T8/XL/SPX35/ECO	24	24000	29000	1350	1280	3500	86					18	101	
		17	24.0	15484	F17T8/XL/SPX41/ECO	24	24000	29000	1350	1280	4100	86					18	101	
		17	24.0	10415	F17T8/XL/SPX50/ECO	24	24000	29000	1300	1235	5000	86					18	101	
		17	24.0	16092	F17T8/XL/SPX65/ECO	24	24000	29000	1250	1125	6500	85					18	101	

Rated life for 2 ft through 4 ft Starcoat® Ecolux® Medium Bi-Pin T8 lamps is determined on programmed start ballasts. Life ratings are based on engineering data on programmed start ballasts with lamps cycled every 3 or 12 operating hours. Lamp life is approximately 35% longer @ 3 hour starts and 20% longer @ 12 hours starts with programmed start ballasts as compared to standard instant start ballasts (see chart on page 4-4).

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes, warning and caution notices found at the end of this section (page 4-32).

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3hr/Start)	Rated Life (12hr/Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Foot-notes	Warning and Caution Notices	Additional Information
T8 Starcoat® Lamps (continued)																			
3' T8 Ecolux®																			
T8	Medium Bi-Pin (G13)	25	36.0	45750	F25T8/SP30/ECO	24	20000	24000	2080	1970	3000	78					18	101	
		25	36.0	45754	F25T8/SP35/ECO	24	20000	24000	2080	1970	3500	78					18	101	
		25	36.0	45756	F25T8/SP41/ECO	24	20000	24000	2080	1970	4100	78					18	101	
		25	36.0	45753	F25T8/SPX30/ECO	24	20000	24000	2150	2040	3000	86					18	101	
		25	36.0	45755	F25T8/SPX35/ECO	24	20000	24000	2150	2040	3500	86					18	101	
		25	36.0	45757	F25T8/SPX41/ECO	24	20000	24000	2150	2040	4100	86					18	101	
3' T8 Ecolux® XL Extra-life																			
T8	Medium Bi-Pin (G13)	25	36.0	15486	F25T8/XL/SP30/ECO	24	24000	29000	2080	1970	3000	78					18	101	
		25	36.0	15487	F25T8/XL/SP35/ECO	24	24000	29000	2080	1970	3500	78					18	101	
		25	36.0	15488	F25T8/XL/SP41/ECO	24	24000	29000	2080	1970	4100	78					18	101	
		25	36.0	15489	F25T8/XL/SPX30/ECO	24	24000	29000	2150	2040	3000	86					18	101	
		25	36.0	15490	F25T8/XL/SPX35/ECO	24	24000	29000	2150	2040	3500	86					18	101	
		25	36.0	15491	F25T8/XL/SPX41/ECO	24	24000	29000	2150	2040	4100	86					18	101	
		25	36.0	10416	F25T8/XL/SPX50/ECO	24	24000	29000	2050	1950	5000	86					18	101	
		25	36.0	16314	F25T8/XL/SPX65/ECO	24	24000	29000	1950	1755	6500	85					18	101	
4' T8 Ecolux®																			
T8	Medium Bi-Pin (G13)	32	48.0	26666	F32T8/SP30/ECO	36	30000	36000	2800	2660	3000	78				Ⓔ	18	101	
		32	48.0	26667	F32T8/SP35/ECO	36	30000	36000	2800	2660	3500	78				Ⓔ	18	101	
		32	48.0	26668	F32T8/SP41/ECO	36	30000	36000	2800	2660	4100	78				Ⓔ	18	101	
		32	48.0	16090	F32T8/SP50/ECO	36	30000	36000	2750	2610	5000	78				Ⓔ	18	101	
		32	48.0	16091	F32T8/SP65/ECO	36	30000	36000	2700	2565	6500	78				Ⓔ	18	101	
		32	48.0	25611	F32T8/SPX30/ECO	36	30000	36000	2950	2800	3000	86				Ⓔ	18	101	
		32	48.0	25612	F32T8/SPX35/ECO	36	30000	36000	2950	2800	3500	86				Ⓔ	18	101	
		32	48.0	25613	F32T8/SPX41/ECO	36	30000	36000	2950	2800	4100	86				Ⓔ	18	101	
		32	48.0	42064	F32T8/SPX50/ECO	36	30000	36000	2800	2660	5000	86				Ⓔ	18	101	
4' T8 Ecolux® XL Extra-life																			
T8	Medium Bi-Pin (G13)	32	48.0	27616	F32T8/XL/SP30/ECO	36	36000	42000	2800	2660	3000	78				Ⓔ	18	101	
		32	48.0	27617	F32T8/XL/SP35/ECO	36	36000	42000	2800	2660	3500	78				Ⓔ	18	101	
		32	48.0	27618	F32T8/XL/SP41/ECO	36	36000	42000	2800	2660	4100	78				Ⓔ	18	101	
		32	48.0	27619	F32T8/XL/SPX30/ECO	36	36000	42000	2950	2800	3000	86				Ⓔ	18	101	
		32	48.0	27620	F32T8/XL/SPX35/ECO	36	36000	42000	2950	2800	3500	86				Ⓔ	18	101	
		32	48.0	27621	F32T8/XL/SPX41/ECO	36	36000	42000	2950	2800	4100	86				Ⓔ	18	101	
		32	48.0	16313	F32T8/XL/SPX50/ECO	36	36000	42000	2800	2660	5000	86				Ⓔ	18	101	
		32	48.0	16089	F32T8/XL/SPX65/ECO	36	36000	42000	2750	2475	6500	85				Ⓔ	18	101	
4' T8 Ecolux® Super Long Life																			
T8	Medium Bi-Pin (G13)	32	48.0	73093	F32T8/SXL/SPX30/ECO	36	40000	46000	2850	2675	3000	84				Ⓔ	18	101	
		32	48.0	73094	F32T8/SXL/SPX35/ECO	36	40000	46000	2850	2675	3500	83				Ⓔ	18	101	
		32	48.0	73095	F32T8/SXL/SPX41/ECO	36	40000	46000	2850	2675	4100	81				Ⓔ	18	101	
		32	48.0	73096	F32T8/SXL/SPX50/ECO	36	40000	46000	2800	2630	5000	80				Ⓔ	18	101	
Ultra Energy Saving T8 Lamps																			
2' T8 Ecolux® Watt-Miser® 15 Watt Lamp																			
T8	Medium Bi-Pin (G13)	15	24.0	72132	F17T8/XL/SPX30/ WM/ECO	24	24000	29000	1200	1130	3000	85		$			1,18	101	
		15	24.0	72133	F17T8/XL/SPX35/ WM/ECO	24	24000	29000	1200	1130	3500	85		$			1,18	101	
		15	24.0	72134	F17T8/XL/SPX41/ WM/ECO	24	24000	29000	1200	1130	4100	82		$			1,18	101	
		15	24.0	72135	F17T8/XL/SPX50/ WM/ECO	24	24000	29000	1175	1105	5000	80		$			1,18	101	
3' T8 Ecolux® Watt-Miser® 22 Watt Lamp																			
T8	Medium Bi-Pin (G13)	22	36.0	72136	F25T8/XL/SPX30/ WM/ECO	24	24000	29000	1925	1810	3000	85		$			1,18	101	
		22	36.0	72137	F25T8/XL/SPX35/ WM/ECO	24	24000	29000	1925	1810	3500	85		$			1,18	101	
		22	36.0	72138	F25T8/XL/SPX41/ WM/ECO	24	24000	29000	1925	1810	4100	82		$			1,18	101	
		22	36.0	72139	F25T8/XL/SPX50/ WM/ECO	24	24000	29000	1900	1785	5000	80		$			1,18	101	

Rated life for 2 ft through 4 ft Starcoat® Ecolux® Medium Bi-Pin T8 lamps is determined on programmed start ballasts. Life ratings are based on engineering data on programmed start ballasts with lamps cycled every 3 or 12 operating hours. Lamp life is approximately 35% longer @ 3 hour starts and 20% longer @ 12 hours starts with programmed start ballasts as compared to standard instant start ballasts (see chart on page 4-4).

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All footnotes, warning and caution notices found at the end of this section (page 4-32).

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3hr/Start)	Rated Life (12hr/Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Foot-notes	Warning and Caution Notices	Additional Information
Ultra Energy Saving T8 Lamps (continued)																			
4' T8 Ecolux® 25 Watt Lamp																			
T8	Medium Bi-Pin (G13)	25	48.0	72128	F32T8/25W/SPX30/ ECO	36	40000	46000	2400	2256	3000	85		$		Ⓔ	1,18	101	
		25	48.0	72129	F32T8/25W/SPX35/ ECO	36	40000	46000	2400	2256	3500	85		$		Ⓔ	1,18	101	
		25	48.0	72130	F32T8/25W/SPX41/ ECO	36	40000	46000	2400	2256	4100	85		$		Ⓔ	1,18	101	
		25	48.0	72131	F32T8/25W/SPX50/ ECO	36	40000	46000	2350	2209	5000	80		$		Ⓔ	1,18	101	
4' T8 Ecolux® UltraMax® 28 Watt Lamp																			
T8	Medium Bi-Pin (G13)	28	48.0	72863	F28T8/XL/SPX30/ECO	36	36000	42000	2725	2562	3000	85		$		Ⓔ	1,18	101	
		28	48.0	72864	F28T8/XL/SPX35/ECO	36	36000	42000	2725	2562	3500	85		$		Ⓔ	1,18	101	
		28	48.0	72866	F28T8/XL/SPX41/ECO	36	36000	42000	2725	2562	4100	82		$		Ⓔ	1,18	101	
		28	48.0	72867	F28T8/XL/SPX50/ECO	36	36000	42000	2625	2463	5000	80		$		Ⓔ	1,18	101	
4' T8 Ecolux® Watt-Miser® 30 Watt Lamp																			
T8	Medium Bi-Pin (G13)	30	48.0	48277	F32T8/SP30/IS/ WM/ECO	36	30000	36000	2850	2675	3000	84		$		Ⓔ	1,18	101	
		30	48.0	48278	F32T8/SP35/IS/ WM/ECO	36	30000	36000	2850	2675	3500	83		$		Ⓔ	1,18	101	
		30	48.0	48279	F32T8/SP41/IS/ WM/ECO	36	30000	36000	2850	2675	4100	81		$		Ⓔ	1,18	101	
		30	48.0	11791	F32T8/SP50/IS/ WM/ECO	36	30000	36000	2750	2585	5000	80		$		Ⓔ	1,18	101	
4' T8 Ecolux® Watt-Miser® XL Extra-Life 30 Watt Lamp																			
T8	Medium Bi-Pin (G13)	30	48.0	48521	F32T8/XL/SP30/ WM/ECO	36	36000	42000	2800	2625	3000	84		$		Ⓔ	1,18	101	
		30	48.0	48522	F32T8/XL/SP35/ WM/ECO	36	36000	42000	2800	2625	3500	83		$		Ⓔ	1,18	101	
		30	48.0	48523	F32T8/XL/SP41/ WM/ECO	36	36000	42000	2800	2625	4100	81		$		Ⓔ	1,18	101	
		30	48.0	42553	F32T8/XL/SP50/ WM/ECO	36	36000	42000	2700	2540	5000	80		$		Ⓔ	1,18	101	
4' T8 Ecolux® High Lumen																			
T8	Medium Bi-Pin (G13)	32	48.0	10327	F32T8/XL/SPX30/ HL/ECO	36	36000	42000	3100	2915	3000	85		$		Ⓔ	18	101	
		32	48.0	10326	F32T8/XL/SPX35/ HL/ECO	36	36000	42000	3100	2915	3500	85		$		Ⓔ	18	101	
		32	48.0	10322	F32T8/XL/SPX41/ HL/ECO	36	36000	42000	3100	2915	4100	82		$		Ⓔ	18	101	
		32	48.0	42556	F32T8/XL/SPX50/ HL/ECO	36	36000	42000	3000	2820	5000	80		$		Ⓔ	18	101	
8' T8 Lamps																			
8' T8																			
T8	Single Pin (Fa8)	59	96.0	23407	F96T8/SP30	24	15000	20000	5800	5500	3000	78				Ⓔ		101	
		59	96.0	23411	F96T8/SP35	24	15000	20000	5800	5500	3500	78				Ⓔ		101	
		59	96.0	23412	F96T8/SP41	24	15000	20000	5800	5500	4100	78				Ⓔ		101	
		59	96.0	23414	F96T8/SPX30	24	15000	20000	5950	5650	3000	86				Ⓔ		101	
		59	96.0	23415	F96T8/SPX35	24	15000	20000	5950	5650	3500	86				Ⓔ		101	
		59	96.0	23416	F96T8/SPX41	24	15000	20000	5950	5650	4100	86				Ⓔ		101	
		59	96.0	23575	F96T8/SPX50	24	15000	20000	5950	5650	5000	86				Ⓔ		101	
8' T8 Ecolux®																			
T8	Single Pin (Fa8)	59	96.0	28105	F96T8/SP30/ECO	24	15000	20000	5700	5130	3000	75				Ⓔ		101	
		59	96.0	28106	F96T8/SP35/ECO	24	15000	20000	5700	5130	3500	75				Ⓔ		101	
		59	96.0	28125	F96T8/SP41/ECO	24	15000	20000	5700	5130	4100	75				Ⓔ		101	
8' T8 XL Extra-Life																			
T8	Single Pin (Fa8)	59	96.0	41889	F96T8/XL/SP30	24	24000	29000	5800	5500	3000	78				Ⓔ		101	
		59	96.0	41890	F96T8/XL/SP35	24	24000	29000	5800	5500	3500	78				Ⓔ		101	
		59	96.0	41891	F96T8/XL/SP41	24	24000	29000	5800	5500	4100	78				Ⓔ		101	
		59	96.0	41892	F96T8/XL/SPX30	24	24000	29000	5950	5650	3000	86				Ⓔ		101	
		59	96.0	41893	F96T8/XL/SPX35	24	24000	29000	5950	5650	3500	86				Ⓔ		101	
		59	96.0	41894	F96T8/XL/SPX41	24	24000	29000	5950	5650	4100	86				Ⓔ		101	
		59	96.0	45497	F96T8/XL/SPX50	24	24000	29000	5950	5650	5000	86				Ⓔ		101	

Rated life for 2 ft through 4 ft Starcoat® Ecolux® Medium Bi-Pin T8 lamps is determined on programmed start ballasts. Life ratings are based on engineering data on programmed start ballasts with lamps cycled every 3 or 12 operating hours. Lamp life is approximately 35% longer @ 3 hour starts and 20% longer @ 12 hours starts with programmed start ballasts as compared to standard instant start ballasts (see chart on page 4-4).

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All footnotes, warning and caution notices found at the end of this section (page 4-32).

Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (3hr/Start)	Rated Life (12hr/Start)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Foot-notes	Warning and Caution Notices	Additional Information
8' T8 Lamps (continued)																			
8' T8 XL Extra-Life Watt-Miser® Energy Saving Lamps																			
T8	Single Pin (Fa8)	57	96.0	48524	F96T8/XL/SP30/WM	24	24000	29000	5800	5450	3000	84	✓	$	⊸	Ⓒ	1	101	
		57	96.0	48525	F96T8/XL/SP35/WM	24	24000	29000	5800	5450	3500	83	✓	$	⊸	Ⓒ	1	101	
		57	96.0	48526	F96T8/XL/SP41/WM	24	24000	29000	5800	5450	4100	81	✓	$	⊸	Ⓒ	1	101	
8' T8 XL Extra-Life Watt-Miser® Plus Energy Saving Lamps																			
T8	Single Pin (Fa8)	54	96.0	47072	F96T8/XL/SP30WMP	24	24000	29000	5800	5450	3000	84	✓	$	⊸	Ⓒ	1	101	
		54	96.0	47076	F96T8/XL/SP35WMP	24	24000	29000	5800	5450	3500	83	✓	$	⊸	Ⓒ	1	101	
		54	96.0	47103	F96T8/XL/SP41WMP	24	24000	29000	5800	5450	4100	81	✓	$	⊸	Ⓒ	1	101	
8' T8 Instant Start																			
T8	Single Pin (Fa8)	50	96.0	10912	F96T8/CW	24	7500		4050	3730	4100	60						101	

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Render-ing	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
8' T8 High Output																		
8' T8 High Output – Recessed Double Contact																		
T8	Recessed Double Contact (R17d)	86	96.0	12536	F96T8/SP30/HO	24	18000	8000	7600	3000	78	✓					101	
		86	96.0	12537	F96T8/SP35/HO	24	18000	8000	7600	3500	78	✓					101	
		86	96.0	12538	F96T8/SP41/HO	24	18000	8000	7600	4100	78	✓					101	
		86	96.0	12533	F96T8/SPX35/HO	24	18000	8200	7800	3500	86	✓					101	
		86	96.0	12534	F96T8/SPX41/HO	24	18000	8200	7800	4100	86	✓					101	
		86	96.0	12535	F96T8/SPX50/HO	24	18000	8200	7800	5000	86	✓					101	
T8 Mod-U-Line®																		
T8 1-5/8" Spacing																		
T8	Medium Bi-Pin (G13)	31	22.5	41776	F31T8/SPX30/U	15	20000	2725	2500	3000	82	✓					102	
		31	22.5	41777	F31T8/SPX35/U	15	20000	2725	2500	3500	82	✓					102	
		31	22.5	41778	F31T8/SPX41/U	15	20000	2725	2500	4100	82	✓					102	
T8 1-5/8" Spacing Ecolux®																		
T8	Medium Bi-Pin (G13)	31	22.5	72117	F31T8SPX30/U/ECO	15	24000	2775	2636	3000	85	✓					102	
		31	22.5	72118	F31T8SPX35/U/ECO	15	24000	2775	2636	3500	85	✓					102	
		31	22.5	72119	F31T8SPX41/U/ECO	15	24000	2775	2636	4100	85	✓					102	
T8 6" Spacing																		
T8	Medium Bi-Pin (G13)	32	22.5	10479	F32T8/SP30/U/6	12	20000	2700	2565	3000	78	✓			Ⓔ		102	
		32	22.5	23585	F32T8/SP35/U/6	12	20000	2700	2565	3500	78	✓			Ⓔ		102	
		32	22.5	10480	F32T8/SP41/U/6	12	20000	2700	2565	4100	78	✓			Ⓔ		102	
		32	22.5	10483	F32T8/SPX30/U/6	12	20000	2800	2630	3000	86	✓			Ⓔ		102	
		32	22.5	10485	F32T8/SPX35/U/6	12	20000	2800	2630	3500	86	✓			Ⓔ		102	
		32	22.5	10488	F32T8/SPX41/U/6	12	20000	2800	2630	4100	86	✓			Ⓔ		102	
		32	22.5	10489	F32T8/SPX50/U/6	12	20000	2660	2510	5000	86	✓			Ⓔ		102	
T8 6" Spacing Ecolux®																		
T8	Medium Bi-Pin (G13)	32	22.5	28145	F32T8/SP30/U6/ECO	12	20000	2700	2565	3000	78	✓			Ⓔ		102	
		32	22.5	28149	F32T8/SP35/U6/ECO	12	20000	2700	2565	3500	78	✓			Ⓔ		102	
		32	22.5	28152	F32T8/SP41/U6/ECO	12	20000	2700	2565	4100	78	✓			Ⓔ		102	
		32	22.5	72111	F32T8/SPX30/U6/ECO	12	20000	2800	2630	3000	86	✓			Ⓔ		102	
		32	22.5	72112	F32T8/SPX35/U6/ECO	12	20000	2800	2630	3500	86	✓			Ⓔ		102	
		32	22.5	72113	F32T8/SPX41/U6/ECO	12	20000	2800	2630	4100	86	✓			Ⓔ		102	
T8 6" Spacing Ecolux® Watt-Miser® 30 Watt Lamp																		
T8	Medium Bi-Pin (G13)	30	22.5	72114	F32T8/SPX30/U6/WM/ECO	12	24000	2800	2632	3000	85	✓	$	⊸	Ⓔ		102	
		30	22.5	72115	F32T8/SPX35/U6/WM/ECO	12	24000	2800	2632	3500	85	✓	$	⊸	Ⓔ		102	
		30	22.5	72116	F32T8/SPX41/U6/WM/ECO	12	24000	2800	2632	4100	85	✓	$	⊸	Ⓔ		102	
Other T8 Lengths																		
18" T8 w/Starcoat®																		
T8	Medium Bi-Pin (G13)	15	18.0	49489	F15T8/XL/SPX65	24	24000	875	785	6500	85	✓					101	Use with Electronic Ballast Only

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Render-ing	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Other T8 Lengths (continued)																		
5' T8 w/Starcoat®																		
T8	Medium Bi-Pin (G13)	40	60.0	15950	F40T8/SP30	24	20000	3600	3240	3000	75	✓					101	
		40	60.0	15951	F40T8/SP35	24	20000	3600	3240	3500	75	✓					101	
		40	60.0	15952	F40T8/SP41	24	20000	3600	3240	4100	75	✓					101	
		40	60.0	22660	F40T8/SPX30	24	20000	3725	3350	3000	84	✓					101	
		40	60.0	22661	F40T8/SPX35	24	20000	3725	3350	3500	84	✓					101	
		40	60.0	22662	F40T8/SPX41	24	20000	3725	3350	4100	84	✓					101	
6' T8 Instant Start																		
T8	Single Pin (Fa8)	35	72.0	10829	F72T8/CW	24	7500	3000	2730	4100	60						101	
		35	72.0	10835	F72T8/WW 6PK	6	7500	3100	2820	3000	52						101	Warm White
T8 Polylux																		
2' T8 Polylux																		
T8	Medium Bi-Pin (G13)	18	24.0	93311	F18T8/835/XLR	25	20000	1350	1280	3500	85	✓					101	
		18	24.0	93317	F18T8/841/XLR	25	20000	1350	1280	4100	85	✓					101	
4' T8 Polylux																		
T8	Medium Bi-Pin (G13)	36	48.0	19991	F36WT8/835/XLR	25	20000	3350	3180	3500	85	✓					101	
		36	48.0	16856	F36WT8/841/XLR	25	20000	3350	3180	3500	85	✓					101	
5' T8 Polylux																		
T8	Medium Bi-Pin (G13)	58	60.0	40120	F58T8/835PLYXLR	25	20000	5200	4940	3500	85	✓					101	
		58	60.0	40081	F58T8/841PLYXLR	25	20000	5200	4940	4000	85	✓					101	
6' T8 Polylux																		
T8	Medium Bi-Pin (G13)	70	72.0	42792	F70T8/835PLYUX	25	20000	6300	5985	3500	85	✓					101	
		70	72.0	42793	F70T8/840PLYUX	25	20000	6300	5985	4100	85	✓					101	
T8 Preheat																		
12" T8																		
T8	Medium Bi-Pin (G13)	13	12.0	10098	F13T8/CW	24	7500	565	480	4100	60						101	
15" T8																		
T8	Medium Bi-Pin (G13)	14	15.0	10104	F14T8/CW	24	7500	685	580	4100	60						101	
18" T8																		
T8	Medium Bi-Pin (G13)	15	18.0	17911	F15T8/SP35	24	7500	940	850	3500	75	✓					101	
		15	18.0	19643	F15T8/SP41	24	7500	940	850	4100	72	✓					101	
		15	18.0	19644	F15T8/SPX30	24	7500	1000	900	3000	82	✓					101	
		15	18.0	19645	F15T8/SPX35	24	7500	1000	900	3500	82	✓					101	
		15	18.0	10142	F15T8/CW	24	7500	825	725	4100	60						101	
		15	18.0	10143	F15T8/CW 6PK	24	7500	825	725	4100	60						101	
		15	18.0	10134	F15T8/D	24	7500	700	615	6500	75	✓					101	Daylight
		15	18.0	21326	F15T8/KB 6PK	24	7500	940	850	3000	70	✓					104	Kitchen & Bath
		15	18.0	13968	F15T8/SUN 6PK	24	7500	620	525	5000	90	✓					101	Sunlight
		15	18.0	10147	F15T8/WW	24	7500	845	745	3000	52						101	Warm White
36" T8																		
T8	Medium Bi-Pin (G13)	30	36.0	16323	F30T8/SPX30	24	7500	2300	2140	3000	82	✓					101	
		30	36.0	10316	F30T8/CW 6PK	24	7500	2175	1980	4100	60						101	
		30	36.0	10310	F30T8/D	24	7500	1850	1625	6500	75	✓					101	Daylight
		30	36.0	22747	F30T8/KB 6PK	24	7500	2125	1910	3000	70	✓					104	Kitchen & Bath
		30	36.0	10318	F30T8/WW	24	7500	2150	1880	3000	52						101	Warm White
T12 Lamps																		
3' T12 Ecolux® – Rapid Start																		
25W																		
T12	Medium Bi-Pin (G13)	25	36.0	80080	F25T12/SP30/RS/WM/ECO	24	18000	2025	1780	3000	70	✓	$	⊸			101	
		25	36.0	80081	F25T12/SP35/RS/WM/ECO	24	18000	2025	1780	3500	73	✓	$	⊸			101	
		25	36.0	80065	F25T12/CWRSWM/ECO	24	18000	1925	1640	4100	60		$	⊸			101	
		25	36.0	80077	F25T12/WW/RS/WM/ECO	24	18000	1975	1640	3000	52		$	⊸			101	Warm White
30W																		
T12	Medium Bi-Pin (G13)	30	36.0	80087	F30T12/SP35/RS/ECO	24	18000	2350	2120	3500	73	✓					101	
		30	36.0	80088	F30T12/SP41/RS/ECO	24	18000	2350	2120	4100	72	✓					101	
		30	36.0	80089	F30T12/SPX30/RS/ECO	24	18000	2375	2140	3000	82	✓					101	
		30	36.0	80090	F30T12/SPX35/RS/ECO	24	18000	2375	2140	3500	82	✓					101	
		30	36.0	80083	F30T12/C50/RS/ECO	24	18000	1650	1350	5000	90	✓					101	Chroma 50
		30	36.0	80084	F30T12/CW/RS/ECO	24	18000	2200	1910	4100	60						101	

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Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
T12 Lamps (continued)																		
3' T12 Ecolux® – Rapid Start (continued)																		
30W (continued)																		
T12	Medium Bi-Pin (G13)	30	36.0	80085	F30T12/CW/RS/ECO/6PK	24	18000	2200	1910	4100	60						101	
		30	36.0	80086	F30T12/D/RS/ECO	24	18000	1900	1650	6500	75	✓					101	Daylight
		30	36.0	80091	F30T12/WW/RS/ECO	24	18000	2275	1980	3000	52						101	Warm White
4' T12 – Rapid Start																		
34W Watt-Miser® Ecolux® – TCLP Compliant																		
T12	Medium Bi-Pin (G13)	34	48.0	23163	F34SP30RS/WM/ECO	30	20000	2750	2475	3000	70	✓	$	✓	Ⓔ	1	101	
		34	48.0	23165	F34SP35RS/WM/ECO	30	20000	2750	2475	3500	73	✓	$	✓	Ⓔ	1	101	
		34	48.0	21858	F34SP35/RS/WM/ECO/ UPC/6P	24	20000	2750	2475	3500	73	✓	$	✓	Ⓔ	1	101	
		34	48.0	23166	F34SP41/RS/WM/ECO	30	20000	2750	2475	4100	72	✓	$	✓	Ⓔ	1	101	
		34	48.0	41563	F34SP65/RS/WM/ECO	30	20000	2650	2430	6500	75	✓	$	✓	Ⓔ	1	101	
		34	48.0	23157	F34SPX30/RS/WMECO	30	20000	2900	2610	3000	82	✓	$	✓	Ⓔ	1	101	
		34	48.0	23158	F34SPX35/RS/WMECO	30	20000	2900	2610	3500	82	✓	$	✓	Ⓔ	1	101	
		34	48.0	23159	F34SPX41/RS/WMECO	30	20000	2900	2610	4100	80	✓	$	✓	Ⓔ	1	101	
		34	48.0	80095	F34SPX50/RS/WM/ECO	30	20000	2700	2430	5000	80	✓	$	✓	Ⓔ	1	101	
		34	48.0	80092	F34/C50/RS/WM/ECO	30	20000	2000	1720	5000	90	✓	$	✓	Ⓔ	1	101	Chroma 50
		34	48.0	23010	F34CW/RS/WM/ECO	30	20000	2650	2280	4100	60		$	✓	Ⓔ	1	101	
		34	48.0	25391	F34CW/RS/WM/ECO/UPC	30	20000	2650	2280	4100	60		$	✓	Ⓔ	1	101	
		34	48.0	23485	F34CW/RS/WM/ECO/ C10PK	10	20000	2650	2280	4100	60		$	✓	Ⓔ	1	101	
		34	48.0	80093	F34DX/RS/WM/ECO	30	20000	1950	1620	6500	84	✓	$	✓	Ⓔ	1	101	Daylight Deluxe
		34	48.0	80094	F34LW/RS/WM/ECO	30	20000	2825	2430	4200	49		$	✓	Ⓔ	1	101	Lite White
		34	48.0	45065	F34WW/RS/WM/ECO	30	20000	2700	2320	3000	52		$	✓	Ⓔ	1	101	Warm White
		34	48.0	25398	F34WW/RS/WM/ECO/UPC	30	20000	2700	2320	3000	52		$	✓	Ⓔ	1	101	Warm White
40W Ecolux® – TCLP Compliant																		
T12	Medium Bi-Pin (G13)	40	48.0	80099	F40SP30/ECO	30	20000	3250	2950	3000	70	✓			Ⓔ		101	
		40	48.0	80186	F40SP35/ECO	30	20000	3200	2910	3500	73	✓			Ⓔ		101	
		40	48.0	80187	F40SP41/ECO	30	20000	3200	2910	4100	72	✓			Ⓔ		101	
		40	48.0	23382	F40SP41/ECO/C	10	20000	3200	2910	4100	72	✓			Ⓔ		101	
		40	48.0	80188	F40SP65/ECO	30	20000	3050	2775	6500	75	✓			Ⓔ		101	
		40	48.0	25400	F40SP65/ECO/UPC	30	20000	3050	2775	6500	75	✓			Ⓔ		101	
		40	48.0	80189	F40SPX30/ECO	30	20000	3400	3090	3000	82	✓			Ⓔ		101	
		40	48.0	80190	F40SPX35/ECO	30	20000	3400	3090	3500	82	✓			Ⓔ		101	
		40	48.0	80191	F40SPX41/ECO	30	20000	3350	3050	4100	80	✓			Ⓔ		101	
		40	48.0	80199	F40SPX50/ECO	30	20000	3200	2860	5000	80	✓			Ⓔ		101	
		40	48.0	80096	F40C50/ECO	30	20000	2250	1870	5000	90	✓					101	Chroma 50
		40	48.0	25399	F40C50/ECO/UPC	30	20000	2250	1870	5000	90	✓					101	Chroma 50
		40	48.0	13795	F40C75 30PK	30	20000	1950	1680	7500	92	✓					101	Chroma 75, non-TCLP compliant
		40	48.0	13969	F40D/ULTRA/ECO6P	24	20000	3050	2775	6500	75	✓			Ⓔ		101	Daylight
		40	48.0	80097	F40DX/ECO	30	20000	2250	1910	6500	84	✓			Ⓔ		101	Daylight Deluxe
		40	48.0	40333	F40/KB/ECO/2PK	9	20000	3400	3090	3000	70	✓			Ⓔ		104	Kitchen & Bath
		40	48.0	21323	F40KB/ECO 6PK	24	20000	3400	3090	3000	70	✓			Ⓔ		104	Kitchen & Bath
		40	48.0	80098	F40N/ECO	30	20000	2100	1740	3700	90	✓					101	Natural
		40	48.0	12224	F40/SUN/ECO/6PK	24	20000	2250	1870	5000	90	✓					101	Sunlight
		40	48.0	14440	F40/RES/ECO/SLV	30	15000	3150	2860	4100	72	✓			Ⓔ		101	
		40	48.0	14433	F40/RES/ECO/SLV6	24	15000	3150	2860	4100	72	✓			Ⓔ		101	
		40	48.0	14441	F40/RES/ECO/TWN9	9	15000	3150	2860	4100	72	✓			Ⓔ		101	
40W Ecolux® XL Extra-life																		
T12	Medium Bi-Pin (G13)	40	48.0	80217	F40XL/SP30/ECO	30	24000	3300	2970	3000	75	✓			Ⓔ		101	
		40	48.0	80224	F40XL/SP35/ECO	30	24000	3300	2970	3500	75	✓			Ⓔ		101	
		40	48.0	80227	F40XL/SP41/ECO	30	24000	3300	2970	4100	73	✓			Ⓔ		101	
		40	48.0	80230	F40XL/SPX30/ECO	30	24000	3400	3060	3000	82	✓			Ⓔ		101	
		40	48.0	80248	F40XL/SPX35/ECO	30	24000	3400	3060	3500	82	✓			Ⓔ		101	
		40	48.0	80249	F40XL/SPX41/ECO	30	24000	3400	3060	4100	80	✓			Ⓔ		101	
		40	48.0	80250	F40XL/SPX50/ECO	30	24000	3350	3050	5000	80	✓			Ⓔ		101	

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
T12 Lamps (continued)																		
4' T12 Rapid Start (continued)																		
25W Ecolux® Utility Shoplight																		
T12	Medium Bi-Pin (G13)	25	48.0	14450	F48/25W/UTECOSLV	30	12000	1860	1675	4100	60					10	101	
		25	48.0	14456	F48/25W/UTECOTWN	9	12000	1860	1675	4100	60					10	101	
		25	48.0	14445	F48/25W/UTECOUPC	30	12000	1860	1675	4100	60					10	101	
T12 Mod-U-Line®																		
T12 3-5/8" Spacing																		
T12	Medium Bi-Pin (G13)	40	22.5	15259	F40SP30/U/3	12	14000	2925	2660	3000	70	✓			Ⓔ		102	
		40	22.5	14228	F40SP35/U/3	12	14000	2925	2660	3500	73	✓			Ⓔ		102	
		40	22.5	15260	F40SP41/U/3	12	14000	2925	2660	4100	72	✓			Ⓔ		102	
		40	22.5	14814	F40SPX30/U/3	12	14000	3000	2730	3000	82	✓			Ⓔ		102	
		40	22.5	14813	F40SPX35/U/3	12	14000	3000	2730	3500	82	✓			Ⓔ		102	
		40	22.5	14649	F40SCW/U/3	12	14000	2725	2400	4100	75	✓			Ⓔ		102	Super Cool White
T12 6" Spacing																		
T12	Medium Bi-Pin (G13)	40	22.5	15263	F40SP30/U/6	12	14000	3050	2780	3000	70	✓			Ⓔ		102	
		40	22.5	14227	F40SP35/U/6	12	14000	3050	2780	3500	73	✓			Ⓔ		102	
		40	22.5	22050	F40SP35/U/6/UPC	12	14000	3050	2780	3500	73	✓			Ⓔ		102	
		40	22.5	15265	F40SP41/U/6	12	14000	3050	2780	4100	72	✓			Ⓔ		102	
		40	22.5	14816	F40SPX30/U/6	12	14000	3100	2820	3000	82	✓			Ⓔ		102	
		40	22.5	14648	F40SCW/U/6	12	14000	2800	2460	4100	75	✓			Ⓔ		102	Super Cool White
		40	22.5	25374	F40SCW/U6/UPC/6P	6	14000	2800	2460	4100	75	✓			Ⓔ		102	Super Cool White
		40	22.5	14815	F40SPX35/U/6	12	14000	3100	2820	3500	82	✓			Ⓔ		102	
		40	22.5	14632	F40SWW/U/6	12	14000	2800	2460	3000	75	✓			Ⓔ		102	Super Warm White
Watt-Miser® Energy Saving Lamps																		
T12 3-5/8" Spacing Watt-Miser®																		
T12	Medium Bi-Pin (G13)	35	22.5	12199	F35CW/U/3/WM	12	14000	2200	2050	4100	60		$	✓	Ⓔ	1	102	
		35	22.5	12200	F35WW/U/3/WM	12	14000	2300	2100	3000	52		$	✓	Ⓔ	1	102	Warm White
T12 6" Spacing Watt-Miser®																		
T12	Medium Bi-Pin (G13)	35	22.5	12203	F35CW/U/6/WM	12	14000	2300	2100	4100	60		$	✓	Ⓔ	1	102	
		35	22.5	14471	F35CW/U/6/WM/UPC	12	14000	2300	2100	4100	60		$	✓	Ⓔ	1	102	
		35	22.5	23383	F35CW/U6/WM/C	6	14000	2300	2100	4100	60		$	✓	Ⓔ	1	102	
		35	22.5	12207	F35WW/U/6/WM	12	14000	2350	2150	3000	52		$	✓	Ⓔ	1	102	Warm White
T12 6" Spacing Watt-Miser® Ecolux®																		
T12	Medium Bi-Pin (G13)	35	22.5	15622	F35CW/U/6/WM/ECO	12	18000	2600	2235	4100	62		$	✓	Ⓔ	1	102	
T12 Instant Start																		
T12	Single Pin (Fa8)	20	24.0	10691	F24T12/CW	24	7500	1050	900	4100	60						101	
		30	36.0 cm	10709	F36T12/CW	24	7500	2000	1800	4100	60						101	
		35	42.0	10735	F42T12/CW	24	7500	2400	2210	4100	60						101	
		40	48.0	15262	F48T12/SP35	24	9000	3000	2820	3500	73	✓					101	
		40	48.0	15088	F48T12/SPX30	24	9000	3050	2870	3000	82	✓					101	
		40	48.0	15116	F48T12/SPX35	24	9000	3050	2870	3500	82	✓					101	
		40	48.0	10748	F48T12/CW	24	9000	2875	2650	4100	60						101	
		40	48.0	20461	F48T12CW/UPC 6PK	24	9000	2875	2650	4100	60						101	
Watt-Miser® Energy Saving Lamps																		
T12	Single Pin (Fa8)	30	48.0	14319	F48T12/SP35/WM	24	9000	2575	2420	3500	73	✓	$	✓		1	101	
		30	48.0	13048	F48T12/SP41/WM	24	9000	2575	2420	4100	72	✓	$	✓		1	101	
		30	48.0	44967	F48T12/CW/WM	24	9000	2475	2400	4100	60		$	✓		1	101	
8' T12 Instant Start																		
8' Instant Start Standard																		
T12	Single Pin (Fa8)	75	96.0	15357	F96T12SP30 15PK	15	12000	6500	6110	3000	70	✓			Ⓔ		101	
		75	96.0	14067	F96T12SP35 15PK	15	12000	6500	6110	3500	73	✓			Ⓔ		101	
		75	96.0	15358	F96T12/SP41 15PK	15	12000	6500	6110	4100	72	✓			Ⓔ		101	
		75	96.0	12127	F96T12/SP65	15	12000	6125	5760	6500	75	✓			Ⓔ		101	
		75	96.0	15110	F96T12SPX30 15PK	15	12000	6800	6390	3000	82	✓			Ⓔ		101	
		75	96.0	15101	F96T12SPX35 15PK	15	12000	6800	6390	3500	82	✓			Ⓔ		101	
		75	96.0	15335	F96T12SPX41 15PK	15	12000	6800	6390	4100	80	✓			Ⓔ		101	
		75	96.0	23466	F96T12/SPX50	15	12000	6250	5880	5000	80	✓			Ⓔ		101	
		75	96.0	14652	F96T12/DX	15	12000	4500	4050	6500	84	✓			Ⓔ		101	Daylight Deluxe

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Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
T12 Lamps (continued)																		
8' T12 Instant Start (continued)																		
8' Instant Start XL Extra-life																		
T12	Single Pin (Fa8)	75	96.0	13725	F96T12/N 15PK	15	12000	4250	3740	3700	90	✓					101	Natural
		75	96.0	13752	F96T12/C50	15	12000	4600	4050	5000	90	✓					101	Chroma 50
		75	96.0	11661	F96T12/XL/SP41	15	15000	6700	6180	4100	73	✓			Ⓔ		101	
		75	96.0	11664	F96T12/XL/SPX41	15	15000	6900	6370	4100	80	✓			Ⓔ		101	
Watt-Miser® Energy Saving Lamps																		
8" Instant Start Watt-Miser®																		
T12	Single Pin (Fa8)	60	96.0	14201	F96T12/SP30/WM/15PK	15	12000	5700	5360	3000	70	✓	$	✒	Ⓔ	1	101	
		60	96.0	13849	F96T12/SP35/WM/15PK	15	12000	5700	5360	3500	73	✓	$	✒	Ⓔ	1	101	
		60	96.0	21856	F96T12/SP35/WM/UPC	15	12000	5700	5360	3500	73	✓	$	✒	Ⓔ	1	101	
		60	96.0	11217	F96T12/SP35/WM/C/10P	10	12000	5700	5360	3500	73	✓	$	✒	Ⓔ	1	101	
		60	96.0	13758	F96T12/SP41/WM/15PK	15	12000	5700	5360	4100	72	✓	$	✒	Ⓔ	1	101	
		60	96.0	25171	F96T12/UTCW/EE/C	10	12000	5500	5060	4100	60		$	✒	Ⓔ	1	101	
		60	96.0	12128	F96T12/SP65/WM	15	12000	5100	4800	6500	75	✓	$	✒	Ⓔ	1	101	
		60	96.0	14629	F96T12/SPX30/WM/15P	15	12000	6000	5640	3000	82	✓	$	✒	Ⓔ	1	101	
		60	96.0	14630	F96T12/SPX35/WM/15P	15	12000	6000	5640	3500	82	✓	$	✒	Ⓔ	1	101	
		60	96.0	13756	F96T12/C50/WM/15PK	15	12000	4000	3520	5000	90	✓	$	✒		1	101	Chroma 50
		60	96.0	13729	F96T12/CW/WM/15PK	15	12000	5500	5060	4100	60		$	✒	Ⓔ	1	101	
		60	96.0	21713	F96T12/CW/WM/ UPC/10PK	10	12000	5500	5060	4100	60		$	✒	Ⓔ	1	101	
		60	96.0	13742	F96T12/LW/WM/15PK	15	12000	5800	5340	4200	49		$	✒	Ⓔ	1	101	Lite White
		60	96.0	13736	F96T12/WW/WM/15PK	15	12000	5700	5240	3000	52		$	✒	Ⓔ	1	101	Warm White
8" Instant Start Watt-Miser® XL Extra-life																		
T12	Single Pin (Fa8)	60	96.0	12406	F96T12/XL/SP35/WM	15	15000	5900	5480	3500	75	✓	$	✒	Ⓔ	1	101	
		60	96.0	12408	F96T12/XL/SP41/WM	15	15000	5900	5480	4100	73	✓	$	✒	Ⓔ	1	101	
8" Instant Start Watt-Miser® Ecolux®																		
T12	Single Pin (Fa8)	60	96.0	27233	F96T12/SP35/WM/ECO	15	12000	5700	5360	3500	73	✓	$	✒	Ⓔ	1	101	
		60	96.0	27235	F96T12/SP41/WM/ECO	15	12000	5700	5360	4100	72	✓	$	✒	Ⓔ	1	101	
		60	96.0	40373	F96T12/SP65/WM/ECO	15	12000	5100	4800	6500	75	✓	$	✒	Ⓔ	1	101	
		60	96.0	27238	F96T12/SPX35/WM/ECO	15	12000	6000	5640	3500	82	✓	$	✒	Ⓔ	1	101	
		60	96.0	27186	F96T12/CW/WM/ECO	15	12000	5500	5060	4100	60		$	✒	Ⓔ	1	101	
T12 Other Lengths																		
5' T12 Instant Start																		
T12	Single Pin (Fa8)	50	60.0	23073	F60T12/CW 15PK	15	12000	3600	3310	4100	60						101	
		50	60.0	23076	F60T12/D 15PK	15	12000	3000	2760	6500	75	✓					101	Daylight
64" T12 Instant Start																		
T12	Single Pin (Fa8)	50	64.0	23082	F64T12/CW15PK	15	10000	3850	3540	4100	60						101	
		50	64.0	23085	F64T12/D 15PK	15	10000	3300	3040	6500	75	✓					101	Daylight
6' T12 Instant Start																		
T12	Single Pin (Fa8)	55	72.0	15286	F72T12/SP35 15PK	15	12000	4700	4420	3500	73	✓					101	
		55	72.0	15097	F72T12/SP41	15	12000	4700	4420	4100	72	✓					101	
		55	72.0	15117	F72T12/SPX30/15PK	15	12000	4800	4510	3000	82	✓					101	
		55	72.0	15098	F72T12/SPX35/15PK	15	12000	4800	4510	3500	82	✓					101	
		55	72.0	13743	F72T12/CW/15PK	15	12000	4500	4140	4100	60						101	
		55	72.0	12525	F72T12/CW/UPC/10PK	10	12000	4500	4140	4100	60						101	
		55	72.0	13748	F72T12/D/15PK	15	12000	3800	3500	6500	75	✓					101	Daylight
7' T12 Instant Start																		
T12	Single Pin (Fa8)	65	84.0	13764	F84T12/CW 15PK	15	12000	5300	4880	4100	60						101	
T12 High Output (800mA) Rapid Start Recessed Double Contact																		
18" High Output																		
T12	Recessed Double Contact (R17d)	30	18.0	10204	F18T12/CW/HO	24	9000	1000	750	4100	60						101	
2' High Output																		
T12	Recessed Double Contact (R17d)	35	24.0	10261	F24T12/CW/HO	24	9000	1620	1345	4100	60						101	
		35	24.0	10275	F24T12/D/HO	24	9000	1400	1160	6500	74	✓					101	Daylight

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All footnotes, warning and caution notices found at the end of this section (page 4-32).

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
T12 Lamps (continued)																		
T12 High Output (800mA) Rapid Start Recessed Double Contact (continued)																		
30" High Output																		
T12	Recessed Double Contact (R17d)	40	30.0	33707	F30T12/CW/HO	24	9000	2250	1950	4100	60						101	
3' High Output																		
T12	Recessed Double Contact (R17d)	45	36.0	10374	F36T12/CW/HO	24	9000	2800	2440	4100	60						101	
		45	36.0	10380	F36T12/D/HO	24	9000	2350	2040	6500	75	✓					101	
		45	36.0	10388	F36T12/SGN/HO	24	9000	2150	1830	5400	82	✓					101	
42" High Output																		
T12	Recessed Double Contact (R17d)	55	42.0	10559	F42T12/CW/HO	24	9000	3200	2790	4100	60						101	
		55	42.0	10560	F42T12/D/HO	24	9000	2900	2520	6500	74	✓					101	Daylight
		55	42.0	10562	F42T12/SGN/HO	24	9000	2600	2215	5400	82	✓					101	Sign White
4' High Output																		
T12	Recessed Double Contact (R17d)	60	48.0	15359	F48T12/SP30/HO	24	12000	4250	3830	3000	70	✓					101	
		60	48.0	15360	F48T12/SP35/HO	24	12000	4250	3830	3500	73	✓					101	
		60	48.0	15361	F48T12/SP41/HO	24	12000	4250	3830	4100	72	✓					101	
		60	48.0	15115	F48T12/SPX35/HO	24	12000	4350	3920	3500	82	✓					101	
		60	48.0	10773	F48T12/CW/HO	24	12000	3825	3320	4100	60						101	
		60	48.0	27313	F48T12/CW/HO/UPC	24	12000	4050	3520	4100	60						101	
		60	48.0	10778	F48T12/D/HO	24	12000	3400	2960	6500	75	✓					101	Daylight
		60	48.0	10573	F48T12/SGN/HO	24	12000	3100	2640	5400	80	✓					101	Sign White
4' High Output Watt-Miser® Energy Saving Lamps																		
T12	Recessed Double Contact (R17d)	55	48.0	15342	F48T12/SP35/HO/WM	24	12000	3850	3465	3500	73	✓	$	✒		1	101	
		55	48.0	11179	F48T12/LW/HO/WM	24	12000	3900	3390	4200	49		$	✒		1	101	Lite White
5' High Output																		
T12	Recessed Double Contact (R17d)	75	60.0	23075	F60T12/CW/HO 15PK	15	12000	5150	4480	4100	60						101	
		75	60.0	23077	F60T12/D/HO 15PK	15	12000	4400	3830	6500	75	✓					101	Daylight
		75	60.0	23081	F60T12/SGN/HO 15PK	15	12000	4000	3400	5400	82	✓					101	Sign White
64" High Output																		
T12	Recessed Double Contact (R17d)	80	64.0	23083	F64T12/CW/HO/15PK	15	12000	5600	4870	4100	60						101	
		80	64.0	23087	F64T12/D/HO/15PK	15	12000	4750	4130	6500	75	✓					101	Daylight
		80	64.0	23089	F64T12/SGN/HO/15PK	15	12000	4300	3660	5400	82	✓					101	Sign White
6' High Output																		
T12	Recessed Double Contact (R17d)	85	72.0	15343	F72T12/SP30/HO/15PK	15	12000	6650	5990	3000	70	✓					101	
		85	72.0	15347	F72T12/SP35/HO/15PK	15	12000	6650	5990	3500	73	✓					101	
		85	72.0	15348	F72T12/SP41/HO/15PK	15	12000	6650	5990	4100	72	✓					101	
		85	72.0	15137	F72T12/SPX30/HO/15P	15	12000	6800	6120	3000	82	✓					101	
		85	72.0	15351	F72T12/SPX35/HO/15P	15	12000	6800	6120	3500	82	✓					101	
		85	72.0	13697	F72T12/CW/HO/15PK	15	12000	6350	5520	4100	60						101	
		85	72.0	13699	F72T12/D/HO/15PK	15	12000	5350	4650	6500	75	✓					101	Daylight
		85	72.0	12527	F72T12/N/HO	10	12000	4300	3610	3700	90	✓					101	Natural
		85	72.0	13701	F72T12/SGN/HO/15PK	15	12000	4900	4170	5400	82	✓					101	Sign White
		85	72.0	13702	F72T12/WW/HO/15PK	15	12000	6550	5700	3000	52						101	Warm White
7' High Output																		
T12	Recessed Double Contact (R17d)	100	84.0	13766	F84T12/CW/HO/15PK	15	12000	7700	6700	4100	60						101	
		100	84.0	13767	F84T12/D/HO/15PK	15	12000	6500	5660	6500	75	✓					101	Daylight
		100	84.0	13768	F84T12/SGN/HO/15PK	15	12000	6000	5100	5400	82	✓					101	Sign White
8' High Output																		
T12	Recessed Double Contact (R17d)	110	96.0	15362	F96T12/SP30/HO/15PK	15	12000	9200	8280	3000	70	✓			Ⓔ		101	
		110	96.0	15363	F96T12/SP35/HO/15PK	15	12000	9200	8280	3500	73	✓			Ⓔ		101	
		110	96.0	15364	F96T12/SP41/HO/15PK	15	12000	9200	8280	4100	72	✓			Ⓔ		101	
		110	96.0	12130	F96T12/SP65/HO	15	12000	8900	8010	6500	75	✓			Ⓔ		101	
		110	96.0	15119	F96T12/SPX30/HO/15PK	15	12000	9350	8420	3000	82	✓			Ⓔ		101	
		110	96.0	15352	F96T12SPX35HO15PK	15	12000	9350	8420	3500	82	✓			Ⓔ		101	
		110	96.0	23070	F96T12/SPX41/HO/15PK	15	12000	9350	8420	4100	80	✓			Ⓔ		101	
		110	96.0	13707	F96T12/C50/HO/15PK	15	12000	6750	5670	5000	90	✓					101	Chroma 50
		110	96.0	14653	F96T12/DX/HO	15	12000	6600	5610	6500	84	✓					101	Daylight Deluxe

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Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
T12 Lamps (continued)																		
T12 High Output (800mA) Rapid Start Recessed Double Contact (continued)																		
8' High Output Watt-Miser® Energy Saving Lamps																		
T12	Recessed Double Contact (R17d)	95	96.0	14069	F96T12/SP35/HO/WM	15	12000	8350	7520	3500	73	✓	$	✓	Ⓔ	1	101	
		95	96.0	13721	F96T12/SP41/HO/WM15	15	12000	8350	7520	4100	72	✓	$	✓	Ⓔ	1	101	
		95	96.0	12131	F96T12SP65/HO/WM	15	12000	7700	6930	6500	75	✓	$	✓	Ⓔ	1	101	
		95	96.0	15120	F96T12/SPX30/HO/WM	15	12000	8500	7650	3000	82	✓	$	✓	Ⓔ	1	101	
		95	96.0	15122	F96T12/SPX35/HO/WM	15	12000	8500	7650	3500	82	✓	$	✓	Ⓔ	1	101	
		95	96.0	23069	F96T12/SPX41/HO/WM	15	12000	8500	7650	4100	80	✓	$	✓	Ⓔ	1	101	
		95	96.0	13716	F96T12/CW/HO/WM/15PK	15	12000	8000	6960	4100	60		$	✓	Ⓔ	1	101	
		95	96.0	21714	F96T12/CW/HO/WM/UPC	15	12000	8000	6960	4100	60		$	✓	Ⓔ	1	101	
		95	96.0	13720	F96T12/LW/HO/WM	15	12000	8500	7900	4200	49		$	✓	Ⓔ	1	101	Lite White
		95	96.0	13719	F96T12/WW/HO/ WM/15PK	15	12000	8200	7130	3000	52		$	✓	Ⓔ	1	101	Warm White
8' High Output Watt-Miser® Ecolux®																		
T12	Recessed Double Contact (R17d)	95	96.0	16495	F96T12/CW/HO/WM/ECO	15	12000	8000	6480	4100	60		$	✓	Ⓔ	1	101	
T12 Very High Output (1500mA) Recessed Double Contact																		
T12	Recessed Double Contact (R17d)	110	48.0	10751	F48T12/CW/1500	24	10000	6200	4030	4100	60					4	101	
		165	72.0	13760	F72T12/CW/1500/15PK	15	10000	9000	6300	4100	60					4	101	
		185	96.0	13789	F96T12/CW/1500/ WM/15PK	15	9000	12500	9380	4100	60		$	✓		4	101	
		215	96.0	13781	F96T12/CW/1500/15PK	15	10000	13500	10125	4100	60					4	101	
		215	96.0	13783	F96T12/D/1500/15PK	15	10000	11500	8630	6500	74	✓				4	101	Daylight
T12 Preheat																		
15"																		
T12	Medium Bi-Pin (G13)	14	15.0	10116	F14T12/CW	24	9000	650	550	4100	60						101	Preheat
		14	15.0	10117	F14T12/CW 6PK	24	9000	650	550	4100	60						101	Preheat
		14	15.0	22979	F14T12/KB 6PK	24	9000	700	650	3000	70	✓					104	Preheat, Kitchen & Bath
18"																		
T12	Medium Bi-Pin (G13)	15	18.0	10183	F15T12/CW 6PK	24	9000	760	685	4100	60						101	Preheat
		15	18.0	22745	F15T12/KB 6PK	24	9000	785	730	3000	70	✓					104	Preheat, Kitchen & Bath
		15	18.0	10185	F15T12/WW	24	9000	780	700	3000	52						101	Preheat
24"																		
T12	Medium Bi-Pin (G13)	20	24.0	80048	F20T12/SP35/ECO	24	9000	1275	1200	3500	73	✓					101	Preheat
		20	24.0	15353	F20T12/SP41	24	9000	1275	1200	4100	72	✓					101	Preheat
		20	24.0	80049	F20T12/SPX35/ECO	24	9000	1300	1220	3500	82	✓					101	Preheat
		20	24.0	80044	F20T12/C50/ECO	24	9000	875	790	5000	90	✓					101	Preheat
		20	24.0	80045	F20T12/CW/ECO	24	9000	1200	1150	4100	60						101	Preheat
		20	24.0	80046	F20T12/CW/ECO/6PK	24	9000	1200	1150	4100	60						101	Preheat
		20	24.0	80047	F20T12/D/ECO	24	9000	1025	945	6500	75	✓					101	Preheat
		20	24.0	25575	F20T12/D/ECO/UPC	24	9000	1025	945	6500	75	✓					101	Preheat, Daylight
		20	24.0	21325	F20T12/KB/ECO	24	9000	1275	1200	3000	70	✓					104	Preheat, Kitchen & Bath
		20	24.0	14419	F20T12/SUN/ECO	24	9000	875	790	5000	90	✓					101	Preheat, Sunlight
		20	24.0	80050	F20T12/WW/ECO	24	9000	1250	1150	3000	52						101	Preheat, Warm White
		20	24.0	25577	F20T12/WW/ECO/UPC	24	9000	1250	1150	3000	52						101	Preheat, Warm White
Other Diameters																		
T6 Instant Start																		
T6	Single Pin (Fa8)	25	42.0	12221	F42T6/SP35	24	7500	1830	1700	3500	73	✓					101	
		25	42.0	10720	F42T6/CW	24	7500	1750	1580	4100	60						101	
		25	42.0	10721	F42T6/WW	24	7500	1825	1640	3000	52						101	Warm White
		40	64.0	12223	F64T6/SP35	24	7500	2930	2720	3500	73	✓					101	
		40	64.0	10805	F64T6/CW	24	7500	2800	2520	4100	60						101	
		40	64.0	10807	F64T6/WW	24	7500	2900	2610	3000	52						101	Warm White
T17 Instant Start																		
T17	Mogul Bi-Pin (G20)	40	60.0	10575	F40T17/CW/IS	12	7500	2850	2620	4100	60			✓		3	101	Use only w/ Instant Start Ballasts

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Other Diameters (continued)																		
Pg17 T17 Preheat																		
T17	Mogul Bi-Pin (G20)	82	60.0	43443	F90T17/CW/WM	12	9000	5750	5060	4100	60		$	✓		4	101	
		90	60.0	10643	F90T17/CW	12	9000	6000	5280	4100	60			✓		4	101	
Power Groove Recessed Double Contact (1500mA)																		
PG17	Recessed Double Contact (R17d)	185	96.0	42666	F96PG17/CW/WM	8	12000	12700	9900	4100	60		$	✓		4	101	
		215	96.0	11009	F96PG17/CW	8	10000	14000	10915	4100	60			✓		4	101	
		215	96.0	11018	F96PG17/D	8	10000	12100	9440	6500	74	✓				4	101	Daylight
T9 Circline® Lamps																		
T9	4-Pin (G10q)	20	6.5	42732	FC6T9/CW	12	12000	800	560	4100	60						101	
		22	8.25	33774	FC8T9/CW	12	12000	1000	825	4100	60						101	
		22	8.25	11026	FC8T9/D	12	12000	925	690	6500	75	✓					101	Daylight
		22	8.25	11084	FC8T9/KB	6	12000	1400	1120	3000	82	✓					104	Kitchen & Bath
		32	12.0	33890	FC12T9/CW	12	12000	1950	1460	4100	60						101	
		32	12.0	11039	FC12T9/D	12	12000	1675	1260	6500	75	✓					101	Daylight
		32	12.0	11085	FC12T9/KB	6	12000	2400	1920	3000	82	✓					104	Kitchen & Bath
		40	16.0	33893	FC16T9/CW	12	12000	2700	2030	4100	60						101	
		40	16.0	11052	FC16T9/D	12	12000	2250	1690	6500	75	✓					101	Daylight
Special Application Lamps																		
covRguard® Shatter Resistant																		
T5 High Efficiency																		
T5	Miniature Bi-Pin (G5)	14	21.6	73194	F14W/T5/830/ECO/CVG	40	20000	1310	1200	3000	85	✓				11, 13	103	
		14	21.6	73195	F14W/T5/835/ECO/CVG	40	20000	1310	1200	3500	85	✓				11, 13	103	
		14	21.6	73196	F14W/T5/841/ECO/CVG	40	20000	1310	1200	4100	85	✓				11, 13	103	
		14	21.6	73197	F14W/T5/850/ECO/CVG	40	20000	1260	1155	5000	85	✓				11, 13	103	
		28	45.2	81546	F28W/T5/830/ECO/CVG	40	20000	2813	2672	3000	85	✓				11, 13	103	
		28	45.2	81547	F28W/T5/835/ECO/CVG	40	20000	2813	2672	3500	85	✓				11, 13	103	
		28	45.2	81548	F28W/T5/841/ECO/CVG	40	20000	2813	2672	4100	85	✓				11, 13	103	
		28	45.2	81549	F28W/T5/850/ECO/CVG	40	20000	2667	2534	5000	85	✓				11, 13	103	
		28	45.2	81550	F28W/T5/865/ECO/CVG	40	20000	2319	2488	6500	85	✓				11, 13	103	
T5 High Output																		
T5	Miniature Bi-Pin (G5)	24	21.6	71000	F24W/T5/830/ECO/CVG	40	30000	1950	1853	3000	85					11	103	Does not block UV
		24	21.6	70998	F24W/T5/835/ECO/CVG	40	30000	1950	1853	3500	85	✓				11	103	Does not block UV
		24	21.6	70997	F24W/T5/841/ECO/CVG	40	30000	1950	1853	4100	85	✓				11	103	Does not block UV
		24	21.6	70999	F24W/T5/850/ECO/CVG	40	30000	1850	1758	5000	85	✓				11	103	Does not block UV
		24	21.6	70996	F24W/T5/865/ECO/CVG	40	30000	1800	1710	6500	85	✓				11	103	Does not block UV
		39	33.4	70995	F39W/T5/830/ECO/CVG	40	30000	3400	3230	3000	85	✓				11	103	Does not block UV
		39	33.4	70994	F39W/T5/835/ECO/CVG	40	30000	3400	3230	3500	85	✓				11	103	Does not block UV
		39	33.4	70993	F39W/T5/841/ECO/CVG	40	30000	3400	3230	4100	85	✓				11	103	Does not block UV
		39	33.4	70991	F39W/T5/850/ECO/CVG	40	30000	3250	3088	5000	85	✓				11	103	Does not block UV
		39	33.4	70990	F39W/T5/865/ECO/CVG	40	30000	3250	3040	6500	85	✓				11	103	Does not block UV
		54	45.2	48433	F54T5/830/HO/ECO/CVG	40	30000	4850	4560	3000	85	✓				11	103	Does not block UV
		54	45.2	48436	F54T5/835/HO/ECO/CVG	40	30000	4850	4560	3500	85	✓				11	103	Does not block UV
		54	45.2	48458	F54T5/841/HO/ECO/CVG	40	30000	4850	4560	4100	85	✓				11	103	Does not block UV
		54	45.2	80311	F54T5/850/HO/ECO/CVG	40	30000	4650	4370	5000	85	✓				11	103	Does not block UV
		54	45.2	48469	F54T5/865/HO/ECO/CVG	40	30000	4650	4320	6500	85	✓				11	103	Does not block UV
T5 High Output Watt-Miser®																		
T5	Miniature Bi-Pin (G5)	51	45.2	72985	F54T5/830/WM/ECO/CVG	40	25000	4850	4560	3000	85	✓	$	✓		11	103	Does not block UV
		51	45.2	72986	F54T5/835/WM/ECO/CVG	40	25000	4850	4560	3500	85	✓	$	✓		11	103	Does not block UV
		51	45.2	72987	F54T5/841/WM/ECO/CVG	40	25000	4850	4560	4100	85	✓	$	✓		11	103	Does not block UV
		51	45.2	72988	F54T5/850/WM/ECO/CVG	40	25000	4650	4370	5000	85	✓	$	✓		11	103	Does not block UV
		51	45.2	72989	F54T5/865/WM/ECO/CVG	40	25000	4650	4320	6500	85	✓	$	✓		11	103	Does not block UV
T5 Preheat Lamps																		
T5	Miniature Bi-Pin (G5)	4	6.0	41435	F4T5/CW/CVG	24	5000	130	97	4100	60					11, 13	103	
		6	9.0	41106	F6T5/CW/CVG	24	5000	285	228	4100	60					11, 13	103	
		8	12.0	41107	F8T5/CW/CVG	24	5000	385	310	4100	60					11, 13	103	
		13	21.0	41108	F13T5/CW/CVG	24	5000	820	684	4100	60					11, 13	103	

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Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Render-ing	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Special Application Lamps (continued)																		
covRguard® Shatter Resistant (continued)																		
T6 Instant Start Lamps																		
T6	Single Pin (Fa8)	25	42.0	41140	F42T6/CW/CVG	24	7500	1690	1530	4100	60					11, 13	103	
		25	42.0	41142	F42T6/SP35/CVG	24	7500	1770	1650	3500	73					11, 13	103	
		25	42.0	41141	F42T6/WW/CVG	24	7500	1770	1590	3000	52					11, 13	103	
		40	64.0	46422	F64T6/CW/CVG	24	7500	2710	2445	4100	60					11, 13	103	
		40	64.0	41143	F64T6/SP35/CVG	24	7500	2840	2638	3500	73					11, 13	103	
T8 Ecolux® w/ Starcoat®																		
2' T8 Ecolux® w/ Starcoat®																		
T8	Medium Bi-Pin (G13)	17	24.0	47417	F17T8SP30ECOCVG	24	20000	1280	1220	3000	78					11,13,18	103	
		17	24.0	15974	F17T8SP35ECOCVG	24	20000	1280	1220	3500	78					11,13,18	103	
		17	24.0	15977	F17T8SP41ECOCVG	24	20000	1280	1220	4100	78					11,13,18	103	
		17	24.0	11836	F17T8SPX30ECOCVG	24	20000	1310	1241	3000	85					11,13,18	103	
		17	24.0	15975	F17T8SPX35ECOCVG	24	20000	1310	1242	3500	86					11,13,18	103	
		17	24.0	15976	F17T8SPX41ECOCVG	24	20000	1310	1242	4100	86					11,13,18	103	
		17	24.0	28885	F17T8XLSPX50ECOCVG	24	24000	1310	1243	5000	86					11,13,18	103	
3' Ecolux® w/Starcoat®																		
T8	Medium Bi-Pin (G13)	25	36.0	15978	F25T8SP30ECOCVG	24	20000	2020	1920	3000	78					11,13,18	103	
		25	36.0	15981	F25T8SP35ECOCVG	24	20000	2020	1920	3500	78					11,13,18	103	
		25	36.0	15984	F25T8SP41ECOCVG	24	20000	2020	1920	4100	78					11,13,18	103	
		25	36.0	15989	F25T8SPX30ECOCVG	24	20000	2080	1970	3000	86					11,13,18	103	
		25	36.0	15990	F25T8SPX35ECOCVG	24	20000	2080	1970	3500	86					11,13,18	103	
		25	36.0	15991	F25T8SPX41ECOCVG	24	20000	2080	1970	4100	86					11,13,18	103	
		25	36.0	28887	F25T8XLSPX50ECOCVG	24	24000	2080	1970	5000	86					11,13,18	103	
		25	36.0	72655	F25T8SPX65ECOCVG	24	20000	2080	1970	6500	86					11,13,18	103	
4' T8 (48") Ecolux® w/Starcoat®																		
T8	Medium Bi-Pin (G13)	32	48.0	40803	F32T8SP30ECO/CVG	36	30000	2715	2580	3000	78				Ⓔ	11,13,18	103	
		32	48.0	40804	F32T8SP35ECO/CVG	36	30000	2715	2580	3500	78				Ⓔ	11,13,18	103	
		32	48.0	40812	F32T8SP41ECO/CVG	36	30000	2715	2580	4100	78				Ⓔ	11,13,18	103	
		32	48.0	18366	F32T8/SP50ECO/CVG	36	30000	2667	2532	5000	78				Ⓔ	11,13,18	103	
		40	48.0	18368	F32T8/SP65ECO/CVG	36	30000	2620	2488	6500	78				Ⓔ	11,13,18	103	
		32	48.0	41125	F32T8SPX30ECOCVG	36	30000	2860	2715	3000	86				Ⓔ	11,13,18	103	
		32	48.0	41126	F32T8SPX35ECOCVG	36	30000	2860	2715	3500	86				Ⓔ	11,13,18	103	
		32	48.0	41127	F32T8SPX41ECOCVG	36	30000	2860	2715	4100	86				Ⓔ	11,13,18	103	
		32	48.0	15971	F32T8SPX50ECOCVG	36	30000	2715	2580	5000	86				Ⓔ	11,13,18	103	
4' T8 Ecolux® XL Extra-life w/Starcoat®																		
T8	Medium Bi-Pin (G13)	32	48.0	15972	F32T8XLSPX30ECOCVG	36	36000	2860	2715	3000	86				Ⓔ	11,13,18	103	
		32	48.0	15973	F32T8XLSPX35ECOCVG	36	36000	2860	2715	3500	86				Ⓔ	11,13,18	103	
		32	48.0	18369	F32T8XLSPX41ECCVG	36	36000	2860	2715	4100	86				Ⓔ	11,13,18	103	
		32	48.0	23746	F32T8XLSPX50ECOCVG	36	36000	2715	2580	5000	86				Ⓔ	11,13,18	103	
Ultra Energy Saving T8 Lamps w/ covRguard®																		
4' T8 Ecolux® 25 Watt Lamp																		
T8	Medium Bi-Pin (G13)	25	48.0	72812	F32T8/25WSPX30ECOCVG	36	40000	2328	2188	3000	85		$		Ⓔ	1,11,13,18	103	
		25	48.0	72813	F32T8/25WSPX30ECOCVG	36	40000	2328	2188	3500	85		$		Ⓔ	1,11,13,18	103	
		25	48.0	72814	F32T8/25WSPX30ECOCVG	36	40000	2328	2188	4100	82		$		Ⓔ	1,11,13,18	103	
		25	48.0	72815	F32T8/25WSPX30ECOCVG	36	40000	2280	2143	5000	80		$		Ⓔ	1,11,13,18	103	
4' T8 Ecolux® UltraMax® 28 Watt Lamp																		
T8	Medium Bi-Pin (G13)	28	48.0	73292	F28T8/XLSPX30ECO/CVG	36	36000	2643	2485	3000	85		$		Ⓔ	1,11,13,18	103	
		28	48.0	73293	F28T8/XLSPX35ECO/CVG	36	36000	2643	2485	3500	85		$		Ⓔ		103	
		28	48.0	73294	F28T8/XLSPX41ECO/CVG	36	36000	2643	2485	4100	82		$		Ⓔ		103	
		28	48.0	73295	F28T8/XLSPX50ECO/CVG	36	36000	2546	2344	5000	80		$		Ⓔ		103	
4' T8 Ecolux® Watt-Miser® w/Starcoat®																		
T8	Medium Bi-Pin (G13)	30	48.0	40286	F32T8SP30ISWMCVG	36	30000	2765	2595	3000	84		$		Ⓔ	1,11,13,18	103	
		30	48.0	40299	F32T8SP35ISWMCVG	36	30000	2765	2595	3500	83		$		Ⓔ	1,11,13,18	103	
		30	48.0	40309	F32T8SP41ISWMCVG	36	30000	2765	2595	4100	81		$		Ⓔ	1,11,13,18	103	
		30	48.0	47422	F32T8SP50ISWMCVG	36	30000	2568	2570	4100	80		$		Ⓔ	1,11,13,18	103	

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Render-ing	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Special Application Lamps (continued)																		
Ultra Energy Saving T8 Lamps w/ covRguard® (continued)																		
4' T8 Ecolux® Watt-Miser® XL Extra-Life w/Starcoat®																		
T8	Medium Bi-Pin (G13)	30	48.0	10023	F32T8XLSP30WMCVG	36	36000	2715	2545	3000	84		$		Ⓔ	1,11,13,18	103	
		30	48.0	40297	F32T8XLSP35WMCVG	36	36000	2715	2545	3500	83		$		Ⓔ	1,11,13,18	103	
		30	48.0	40310	F32T8XLSP41WMCVG	36	36000	2715	2545	4100	81		$		Ⓔ	1,11,13,18	103	
		30	48.0	47423	F32T8XLSP50WMCVG	36	36000	2619	2464	5000	80		$		Ⓔ	1,11,13,18	103	
4' T8 Ecolux® High Lumen XL Extra-Life w/Starcoat®																		
T8	Medium Bi-Pin (G13)	32	48.0	00267	F32T8XLSPX30HCVG	36	36000	3007	2228	3000	85		$		Ⓔ	11,13,18	103	
		32	48.0	00268	F32T8XLSPX35HCVG	36	36000	3007	2228	3500	85		$		Ⓔ	11,13,18	103	
		32	48.0	00269	F32T8XLSPX41HCVG	36	36000	3007	2228	4100	82		$		Ⓔ	11,13,18	103	
		32	48.0	80497	F32T8XLSPX50HCVG	36	36000	3910	2735		85		$		Ⓔ	11,13,18	103	
T8 Mod-U-Line® 6" Spacing																		
T8	Medium Bi-Pin (G13)	32	22.5	23655	F32T8/SP30U6/CVG	12	20000	2619	2488	3000	78				Ⓔ	11,13	103	
		32	22.5	23656	F32T8/SP35U6/CVG	12	20000	2619	2488	3500	78				Ⓔ	11,13	103	
		32	22.5	23657	F32T8/SP41U6/CVG	12	20000	2619	2488	4100	78				Ⓔ	11,13	103	
		32	22.5	23658	F32T8/SPX30U6CVG	12	20000	2716	2551	3000	86				Ⓔ	11,13	103	
		32	22.5	23659	F32T8/SPX35U6CVG	12	20000	2716	2551	3500	86				Ⓔ	11,13	103	
		32	22.5	23660	F32T8/SPX41U6CVG	12	20000	2716	2551	4100	86				Ⓔ	11,13	103	
5' T8 w/Starcoat®																		
5' T8 (60") w/Starcoat®																		
T8	Medium Bi-Pin (G13)	40	60.0	41130	F40T8/SP35/CVG	24	20000	3490	3315	3500	75					11,13	103	
		40	60.0	48092	F40T8/SP41/CVG	24	20000	3490	3315	4100	75					11,13	103	
		40	60.0	14564	F40T8/SPX30/CVG	24	20000	3610	3250	3000	85					11,13	103	
		40	60.0	41131	F40T8/SPX35/CVG	24	20000	3610	3250	3500	85					11,13	103	
		40	60.0	47351	F40T8/SPX41/CVG	24	20000	3610	3250	4100	85					11,13	103	
T8 Instant Start w/Starcoat®																		
6' T8 (72") Instant Start																		
T8	Single Pin (Fa8)	35	72.0	41149	F72T8/CW/CVG	24	7500	2910	2640	4100	60					11,13	103	
8' T8 (96") Instant Start w/Starcoat®																		
T8	Single Pin (Fa8)	59	96.0	40094	F96T8/SP30/CVG	24	15000	5620	5335	3000	78				Ⓔ	11,13	103	
		59	96.0	40095	F96T8/SP35/CVG	24	15000	5620	5335	3500	78				Ⓔ	11,13	103	
		59	96.0	40096	F96T8/SP41/CVG	24	15000	5620	5335	4100	78				Ⓔ	11,13	103	
		59	96.0	40099	F96T8/SPX30CVG	24	15000	5770	5480	3000	86				Ⓔ	11,13	103	
		59	96.0	40105	F96T8/SPX35/CVG	24	15000	5770	5480	3500	86				Ⓔ	11,13	103	
		59	96.0	40106	F96T8/SPX41/CVG	24	15000	5770	5480	4100	86				Ⓔ	11,13	103	
		59	96.0	48205	F96T8/SPX50/CVG	24	15000	5770	5480	5000	86				Ⓔ	11,13	103	
8' T8 High Output Lamps Recessed Double Contact w/Starcoat®																		
T8	Recessed Double Con-tact (R17d)	86	96.0	16822	F96T8/SP30HO/CVG	24	18000	7760	7370	3000	78					11,12,13	103	
		86	96.0	40107	F96T8/SP35HO/CVG	24	18000	7760	7370	3500	78					11,12,13	103	
		86	96.0	40108	F96T8/SP41HO/CVG	24	18000	7760	7370	4100	78					11,12,13	103	
		86	96.0	16823	F96T8/SPX35HO/CVG	24	18000	7954	7566	3500	86					11,12,13	103	
		86	96.0	42022	F96T8/SPX41HO/CVG	24	18000	7954	7566	4100	86					11,12,13	103	
		86	96.0	81563	F96T8/SPX50HO/CVG	24	18000	7954	7566	5000	86					11,12,13	103	
T8 Preheat Lamps																		
T8	Medium Bi-Pin (G13)	13	12.0	41109	F13T8/CW/CVG	24	7500	545	465	4100	60					11,13	103	Preheat
		15	18.0	41110	F15T8/CW/CVG	24	7500	800	700	4100	60					11,13	103	Preheat
		15	18.0	46627	F15T8/KB/CVG/UPC	24	7500	910	825	3000	70					11,13	103	Preheat, Kitchen & Bath
		15	18.0	46216	F15T8/SP35/CVG	24	7500	910	825	3500	75					11,13	103	Preheat
		15	18.0	41111	F15T8/SPX35/CVG	24	7500	970	870	3500	82					11,13	103	Preheat
		18	24.0	41117	F24T8/CW/4/CVG	6	7500	1180	1000	4100	60					11,13	103	Preheat
		19	28.0	41121	F28T8/CW/4/CVG	6	7500	1300	1110	4100	60					11,13	103	Preheat
		30	36.0	41122	F30T8/CW/CVG	24	7500	2100	1920	4100	60					11,13	103	Preheat
		30	36.0	46206	F30T8/SPX30/CVG	24	7500	2230	2070	3000	82					11,13	103	Preheat

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Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Special Application Lamps (continued)																		
T12 Rapid Start Lamps																		
3' Ecolux® T12 (36")																		
T12	Medium Bi-Pin (G13)	30	36.0	80486	F30T12CWRSECOCVG	24	18000	2130	1850	4100	60					11,13	103	
		30	36.0	80987	F30T12SPX30ECOCV	24	18000	2300	2070	3000	60	✓				11,13	103	
		30	36.0	80487	F30T12SPX35ECOCV	24	18000	2300	2070	3500	82	✓				11,13	103	
		30	36.0	80986	F30T12SP35ECOCVG	24	18000	2280	2050	3500	73	✓				11,13	103	
4' T12 Ecolux® Rapid Start Watt-Miser® Lamps (48")																		
T12	Medium Bi-Pin (G13)	40	48.0	80495	F40CW/ECO/CVG	30	20000	2950	2600	4100	70					11,13	103	
		40	48.0	80992	F40CW/ECO/CVG6PK	6	20000	2950	2600	4100	70					11,13	103	
		40	48.0	80995	F40KB/ECO/CVGUPC	24	20000	3290	2990	3000	70	✓			Ⓔ	11,13	103	Kitchen & Bath
		40	48.0	80988	F40SP30/ECO/CVG	30	20000	3150	2860	3000	70	✓			Ⓔ	11,13	103	
		40	48.0	80989	F40SP35/ECO/CVG	30	20000	3100	2820	3500	73	✓			Ⓔ	11,13	103	
		40	48.0	80990	F40SP65/ECO/CVG	30	20000	2950	2690	6500	75	✓			Ⓔ	11,13	103	
		40	48.0	80493	F40SPX30/ECO/CVG	30	20000	3290	2990	3000	82	✓			Ⓔ	11,13	103	
		40	48.0	80494	F40SPX35/ECO/CVG	30	20000	3290	2990	3500	82	✓			Ⓔ	11,13	103	
		40	48.0	80991	F40SPX41/ECO/CVG	30	20000	3240	2950	4100	80	✓			Ⓔ	11,13	103	
		40	48.0	80993	F40D/ECO/CVG	30	20000	2480	2170	6500	75	✓			Ⓔ	11,13	103	Daylight
		40	48.0	80994	F40DX/ECO/CVG	30	20000	2180	1850	6500	84	✓			Ⓔ	11,13	103	Daylight Deluxe
		40	48.0	80996	F40N/ECO/CVG	30	20000	2030	1680	3700	90	✓				11,13	103	Natural
		40	48.0	80496	F40/C50/ECO/CVG	30	20000	2180	1810	5000	90	✓				11,13	103	Chroma 50
		40	48.0	41133	F40C75/CVG	30	20000	1890	1630	7500	92	✓				11,13	103	Chroma 75, non-TCLP Compliant
		34	48.0	80489	F34SP35WM/ECOCVG	30	20000	2660	2400	3500	73	✓	$	✒	Ⓔ	11,13	103	
		34	48.0	80490	F34SP41WMECOCVG	30	20000	2660	2400	4100	72	✓	$	✒	Ⓔ	11,13	103	
		34	48.0	80491	F34SPX41WMECOCVG	30	20000	2820	2530	4100	80	✓	$	✒	Ⓔ	11,13	103	
		34	48.0	80488	F34WWRSWMECOCVG	30	20000	2620	2250	3000	52		$	✒	Ⓔ	11,13	103	Warm White
		34	48.0	71262	F34DX/RSWMECOCVG	30	20000	1890	1570	6500	84	✓	$	✒	Ⓔ	11,13	103	Daylight Deluxe
		34	48.0	80492	F34LW/RSWMECOCVG	30	20000	2730	2350	4100	49		$	✒	Ⓔ	11,13	103	Lite White
		34	48.0	40805	F34CWRSWMECO/CVG	30	20000	2570	2210	4100	60		$	✒	Ⓔ	11,13	103	
		34	48.0	41138	F34SPX30RSWMECCV	30	20000	2810	2530	3000	82		$	✒	Ⓔ	11,13	103	
		34	48.0	41139	F34SPX35RSWMECCV	30	20000	2810	2530	3500	82		$	✒	Ⓔ	11,13	103	
T12 Instant Start																		
T12	Single Pin (Fa8)	20	24.0	47342	F24T12/CW/CVG	24	7500	870	785	4100	60					11,13	103	
		40	48.0	40127	F48T12/CW/CVG	24	9000	2780	2560	4100	60					11,13	103	
		40	48.0	48091	F48T12/SP35/CVG	24	9000	2910	2730	3500	73	✓				11,13	103	
		40	48.0	41144	F48T12/SPX35/CVG	24	9000	2950	2780	3500	82	✓				11,13	103	
		50	60.0	41147	F60T12CW/CVG	15	12000	3490	3210	4100	60					11,13	103	
		55	72.0	46213	F72T12/SP35/CVG	15	12000	4550	4280	3500	73	✓				11,13	103	
		55	72.0	41151	F72T12/SPX30/CVG	15	12000	4650	4370	3000	82	✓				11,13	103	
		55	72.0	41153	F72T12/SPX35/CVG	15	12000	4650	4370	3500	82	✓				11,13	103	
		75	96.0	40117	F96T12/CW/CVG	15	12000	5960	5480	4100	60					11,13	103	
		75	96.0	46215	F96T12/SP35/CVG	15	12000	6300	5920	3500	73	✓			Ⓔ	11,13	103	
		75	96.0	41157	F96T12/SPX30/CVG	15	12000	6590	6190	3000	82	✓			Ⓔ	11,13	103	
T12	Single Pin (Fa8)	75	96.0	41158	F96T12/SPX35/CVG	15	12000	6590	6190	3500	82	✓			Ⓔ	11,13	103	
		75	96.0	41159	F96T12/SPX41/CVG	15	12000	6590	6190	4100	80	✓			Ⓔ	11,13	103	
		75	96.0	41973	F96T12/DX/CVG	15	12000	4360	3920	6500	84	✓			Ⓔ	11,13	103	Daylight Deluxe
		75	96.0	46208	F96T12/C50/CVG	15	12000	4460	3920	5000	90	✓			Ⓔ	11,13	103	Chroma 50
T12 Instant Start - Watt-Miser® Energy Saving Lamps																		
8' T12 Rapid Start Watt-Miser® Lamps (96")																		
T12	Single Pin (Fa8)	58	96.0	45993	F96T12SP35WMP/CVG	15	12000	5520	5190	3500	75	✓	$	✒	Ⓔ	1,11,13	103	
		60	96.0	40115	F96T12/CW/WM/CVG	15	12000	5330	4910	4100	60		$	✒	Ⓔ	1,11,13	103	
		60	96.0	40124	F96T12SP35/WM/CVG	15	12000	5520	5200	3500	73	✓	$	✒	Ⓔ	1,11,13	103	
8' T12 Ecolux® Rapid Start Watt-Miser® Lamps (96")																		
T12	Single Pin (Fa8)	60	96.0	40807	F96T12CWWMECOCVG	15	12000	5330		4100	60		$	✒	Ⓔ	1,11,13	103	

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Special Application Lamps (continued)																		
T12 Mod-U-Line® 6" Spacing																		
T12	Medium Bi-Pin (G13)	40	22.5	23661	F40/SP30/U6/CVG	12	14000	2959	2697	3000	70				Ⓔ	11,13	103	
		40	22.5	23662	F40/SP35/U6/CVG	12	14000	2959	2697	3500	73				Ⓔ	11,13	103	
		35	22.5	23664	F35CWECOU6CVUPC	12	14000	2522	2169	4100	60				Ⓔ	11,13	103	
T12 Preheat																		
T12	Medium Bi-Pin (G13)	15	18.0	41114	F15T12/CW/CVG	24	9000	735	660	4100	60					11,13	103	Preheat
		20	24.0	46377	F20T12/C50/CVG	24	9000	845	765	5000	90	✓				11,13	103	Preheat, Chroma 50
		20	24.0	40125	F20T12/CW/CVG	24	9000	1160	1110	4100	60					11,13	103	Preheat
		20	24.0	41000	F20T12CW/CVG/UPC	24	9000	1160	1110	4100	60					11,13	103	Preheat, UPC
		20	24.0	46622	F20T12/KBCVGUPC	24	9000	1230	1160	3000	70	✓				11,13	103	Preheat, Kitchen & Bath, UPC
		20	24.0	46218	F20T12/SP35/CVG	24	9000	1230	1160	3500	73	✓				11,13	103	Preheat
		20	24.0	41116	F20T12SPX35/CVG	24	9000	1260	1180	3500	82	✓				11,13	103	Preheat
		25	33.0	41120	F25T12/WW/33/CVG	24	7500	1850	1160	3000	52					11,13	103	Preheat, Warm White
T12 High Output Lamps Recessed Double Contact																		
T12	Recessed Double Contact (R17d)	35	24.0	48090	F24T12/CW/HO/CVG	24	9000	1570	1300	4100	60					11,12,13	103	
		60	48.0	40129	F48T12/CW/HO/CVG	24	12000	3930	3410	4100	60					11,12,13	103	
		60	48.0	41146	F48T12SPX35HOCVG	24	12000	4220	3800	3500	82	✓				11,12,13	103	
		60	48.0	41969	F48T12/D/HO/CVG	24	12000	3290	2870	6500	75	✓				11,12,13	103	Daylight
		75	60.0	41148	F60T12/CW/HO/CVG	15	12000	4990	4340	4100	60					11,12,13	103	
		85	72.0	40811	F72T12CW/HO/CVG	15	12000	6150	5350	4100	60					11,12,13	103	
		85	72.0	46207	F72T12SP35HO/CVG	15	12000	6450	5810	3500	73	✓				11,12,13	103	
		85	72.0	41152	F72T12SPX30HOCVG	15	12000	6590	5930	3000	82	✓				11,12,13	103	
		85	72.0	41154	F72T12SPX35HOCVG	15	12000	6590	5930	3500	82	✓				11,12,13	103	
		85	72.0	48094	F72T12/N/HO/CVG	10	12000	4170	3500	3700	90	✓				11,12,13	103	Natural
		100	84.0	41156	F84T12/CW/HO/CVG	15	12000	7460	6490	4100	60					11,12,13	103	
		110	96.0	40808	F96T12CW/HO/CVG	15	12000	8630	7500	4100	60					11,12,13	103	
		110	96.0	46210	F96T12SP35HO/CVG	15	12000	8920	8030	3500	73	✓			Ⓔ	11,12,13	103	
		110	96.0	45264	F96T12SP65HO/CVG	15	12000	8630	7760	6500	75	✓			Ⓔ	11,12,13	103	
		110	96.0	41160	F96T12SPX30HOCVG	15	12000	9070	8160	3000	82	✓			Ⓔ	11,12,13	103	
		110	96.0	41161	F96T12SPX35HOCVG	15	12000	9070	8160	3500	82	✓			Ⓔ	11,12,13	103	
		110	96.0	41162	F96T12SPX41HOCVG	15	12000	9070	8160	4100	80	✓			Ⓔ	11,12,13	103	
		110	96.0	46424	F96T12/D/HO/CVG	15	12000	7370	6410	6500	75	✓			Ⓔ	11,12,13	103	Daylight
		110	96.0	46430	F96T12/DX/HO/CVG	15	12000	6400	5440	6500	84	✓			Ⓔ	11,12,13	103	Daylight Deluxe
T12 High Output Lamps Recessed Double Contact - Watt-Miser® Energy Saving Lamps																		
T12	Recessed Double Contact (R17d)	95	96.0	40116	F96T12CW/HOWM/CVG	15	12000	7760	6750	4100	60		$	✒	Ⓔ	1,11,12,13	103	
		95	96.0	40118	F96T12SP35HOWMCVG	15	12000	8090	7290	3500	73	✓	$	✒	Ⓔ	1,11,12,13	103	
		95	96.0	40123	F96T12SP41HOWMCVG	15	12000	8090	7290	4100	72	✓	$	✒	Ⓔ	1,11,12,13	103	
		95	96.0	16821	F96T12CWHOWMECCVG	15	12000	7760	6285	4100	60		$	✒	Ⓔ	1,11,12,13	103	
Germicidal covRguard®																		
T8																		
T8	Medium Bi-Pin (G13)	15	18.0	72761	G15T8/CVG	24	7500									9	106	
		25	18.0	72762	G25T8/CVG	24	7500									9	106	
		30	36.0	72763	G30T8/CVG	24	7500									9	106	
		55	36.0	72764	G55T8/HO/CVG	24	8000									9	106	
Blacklight covRguard®																		
T8																		
T8	Medium Bi-Pin (G13)	15	18.0	72939	F15T8BL/CVG 6PK	6	7500									8	105	
		15	18.0	72940	F15T8BLB/CVG 6PK	6	7500									8	105	
T12																		
T12	Medium Bi-Pin (G13)	20	24.0	72941	F20T12BL/CVG 6PK	6	9000									8	105	
		20	24.0	72942	F20T12BLB/CVG 6PK	6	9000									8	105	
		40	48.0	72943	F40T12BL/CVG 6PK	6	20000									8	105	
		40	48.0	72944	F40T12BLB/CVG 6PK	6	20000									8	105	
Cold Temperature Lamps																		
T5																		
T5	Miniature Bi-Pin (G5)	54	45.2	81521	F54T5/835/CT	36	30000	4500	4275	3500	86	✓				11,13,17	101	Plastic Jacket
		54	45.2	81522	F54T5/841/CT	36	30000	4500	4275	4100	86	✓				11,13,17	101	Plastic Jacket

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Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Render-ing	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Cold Temperature Lamps (continued)																		
T8																		
T8	Medium Bi-Pin (G13)	58	60.0	16148	F58T8/835/CT	24	20000	4680	4450	3500	85	✓				11,13,17	101	Plastic Jacket
		58	60.0	23752	F58T8/841/CT	24	20000	4680	4450	4100	85	✓				11,13,17	101	Plastic Jacket
		70	72.0	16149	F70T8/835/CT	18	20000	5670	5386	3500	85	✓				11,13,17	101	Plastic Jacket
		70	72.0	23754	F70T8/841/CT	18	20000	5670	5386	4100	85	✓				11,13,17	101	Plastic Jacket
High Output (800mA) Recessed Double Contact																		
T12	Recessed Double Contact (R17d)	60	48.0	45976	F48T12/CW/HO-AT	12	12000	3710	3220	4100	60					11,13,17	101	Plastic Jacket w/ Vent Holes
		75	60.0	47353	F60T12/CW/HO-CT	12	12000	4990	4340	4100	60					11,13,17	101	Plastic Jacket
		85	72.0	47346	F72T12SP35/HO-CT	8	12000	6450	5810	3500	73	✓				11,13,17	101	Plastic Jacket
		85	72.0	48095	F72T12SPX35HO-CT	8	12000	6590	5930	3500	82	✓				11,13,17	101	Plastic Jacket
		85	72.0	46199	F72T12/CW/HO-AT	8	12000	6150	5350	4100	60					11,13,17	101	Plastic Jacket w/ Vent Holes
		110	96.0	45979	F96T12SP35/HO-CT	8	12000	8920	8030	3500	73	✓				11,13,17	101	Plastic Jacket
		110	96.0	45912	F96T12/CW/HO-AT	8	12000	8630	7500	4100	60					11,13,17	101	Plastic Jacket w/ Vent Holes
		110	96.0	11918	F96T12/CW/HO/CT	15	12000	8900	7740	4100	60					11,13,17	101	Plastic Jacket
		110	96.0	11919	F96T12/D/HO/CT	15	12000	7600	6610	6500	75	✓				11,13,17	101	Plastic Jacket
T10 Very High Output (1500mA) Recessed Double Contact																		
T10	Recessed Double Contact (R17d)	110	48.0	10742	F48T10/CW	24	9000	6200		4100	60					4	101	
		110	48.0	46196	F48T10/CW-CT	12	9000	6010		4100	60					4,13,17	101	Plastic Jacket
		135	60.0	17135	F60T10/SP30	24	6000	8500		3000	70	✓				4	101	
		135	60.0	39157	F60T10/CW	24	6000	7000		4100	60					4	101	
		135	60.0	13002	F60T10/CW 6PK	6	6000	7000		4100	60					4	101	
		135	60.0	46197	F60T10/CW-CT	12	6000	6790		4100	60					4,13,17	101	Plastic Jacket
		160	72.0	13776	F72T10/CW 15PK	15	9000	9700		4100	60					4	101	
		160	72.0	46198	F72T10/CW-CT	8	9000	9400		4100	60					4,13,17	101	Plastic Jacket
T12 Very High Output (1500mA) Recessed Double Contact																		
T12	Recessed Double Contact (R17d)	110	48.0	34206	F48T12/CW/1500/0	24	10000	7000		4100	60					4	101	
		110	48.0	46195	F48T12CW/VHO/CT	12	10000	6790		4100	60					4,15,17	101	Plastic Jacket
		170	72.0	13762	F72T12CW1500/0	15	10000	10800		4100	60					4	101	
		170	72.0	46200	F72T12CW/VHO/CT	8	10000	10470		4100	60					4,15,17	101	Plastic Jacket
		220	96.0	13788	F96T12/CW/1500/0	15	10000	14400		4100	60					4	101	
		220	96.0	46202	F96T12CW/VHO-CT	8	10000	13960		4100	60					4,15,17	101	Plastic Jacket
Appliance Lamps																		
T8																		
T8	Medium Bi-Pin (G13)	18	22.0	10257	F22T8/D/4	24	7500	925	790	6500	75	✓					101	Daylight
		18	24.0	17705	F24T8/CW/4 6PK	24	7500	1225	1040	4100	60						101	
		19	26.0	10702	F26T8/CW/4	24	7500	1275	1085	4100	60						101	
		19	26.0	38199	F26T8/CW/4 6PK	24	7500	1275	1085	4100	60						101	
		19	28.0	17704	F28T8/CW/4 6PK	24	7500	1350	1145	4100	60						101	
		19	30.0	10349	F30T8/CW/4	24	7500	1375	1170	4100	60						101	
T12																		
T12	Medium Bi-Pin (G13)	21	30.0	10355	F30T12/CW	24	7500	1350	1220	4100	60						101	
		25	28.0	10282	F25T12CW/28 6PK	24	7500	1550	1390	4100	60						101	
		25	28.0	10286	F25T12/D/28	24	7500	1450	1310	6500	75	✓					101	Daylight
		25	33.0	38201	F25T12/CW/33 6PK	24	7500	1860	1675	4100	60						101	
		25	33.0	10299	F25T12/D/33	24	7500	1600	1440	6500	75	✓					101	Daylight
		25	33.0	10293	F25T12/WW/33	24	7500	1910	1720	3000	52						101	Warm White
Blacklight/Blacklight Blue Lamps																		
Blacklight																		
T8	Medium Bi-Pin (G13)	15	18.0	35884	F15T8/BL 6PK	24	7500									8	105	Blacklight, UVA Source
T12	Medium Bi-Pin (G13)	20	24.0	10244	F20T12/BL 6PK	24	9000									8	105	Blacklight, UVA Source
		40	22.5	40537	F40BL/U/3	12	14000									8	105	Blacklight, UVA Source, Mod-U-Line®, 3-5/8 Spacing Between Legs
		40	48.0	10526	F40BL 6PK	24	20000									8	105	Blacklight, UVA Source

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Render-ing	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Blacklight/Blacklight Blue Lamps (continued)																		
Blacklight Blue																		
T5	Miniature Bi-Pin (G5)	4	6.0	10019	F4T5/BLB	24	5000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
		8	12.0	10077	F8T5/BLB	24	5000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T8	Medium Bi-Pin (G13)	15	18.0	35885	F15T8/BLB 6PK	24	7500									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T9	4-Pin (G10q)	22	8.25	25665	FC8T9/BLB	6	12000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T12	Medium Bi-Pin (G13)	20	24.0	34747	F20T12/BLB 6PK	24	9000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
		40	48.0	10531	F40BLB 6PK	24	20000									8	101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
Colored Lamps																		
T8																		
T8	Medium Bi-Pin (G13)	32	48.0	15992	F32T8/B/65ECOCVG	36	20000										103	Sleeved Rosco Blue 65
		32	48.0	15993	F32T8/G/89ECOCVG	36	20000										103	Sleeved Rosco Green 89
		32	48.0	15994	F32T8/R/24ECOCVG	36	20000										103	Sleeved Rosco Red 24
T12																		
T12	Medium Bi-Pin (G13)	40	48.0	10514	F40B 6PK	24	20000										101	Phosphor Blue
		40	48.0	10517	F40G 6PK	24	20000										101	Phosphor Green
		40	48.0	81003	F40T12/R24ECOCVG	30	20000										103	Sleeved Rosco Red 24
		40	48.0	81001	F40T12/B65ECOCVG	30	20000										103	Sleeved Rosco Blue 65
		40	48.0	81002	F40T12/G89ECOCVG	30	20000										103	Sleeved Rosco Green 89
Preheat																		
T12	Medium Bi-Pin (G13)	20	24.0	48259	F20T12/R/24/CVG	24	9000										103	Sleeved Rosco Red 24
		20	24.0	48260	F20T12/B/65/CVG	24	9000										103	Sleeved Rosco Blue 65
		20	24.0	48261	F20T12/G/89/CVG	24	9000										103	Sleeved Rosco Green 89
		20	24.0	10231	F20T12/B 6PK	24	9000										101	Phosphor Blue
		20	24.0	10233	F20T12/G 6PK	24	9000										101	Phosphor Green
Gold Lamps																		
T5																		
T5	Miniature Bi-Pin (G5)	28	45.2	25768	F28T5/GO/CVG	40	20000	1986	1946								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
T8																		
T8	Medium Bi-Pin (G13)	17	24.0	25779	F17T8/GO/ECOCVG	24	15000	970	950								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		25	36.0	25783	F25T8/GO/ECOCVG	24	15000	1590	1558								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		32	48.0	25784	F32T8/GO/ECOCVG	36	15000	2280	2235								103	Gold Sleeved, Blocks UV and Deep Blue Emissions

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Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Gold Lamps (continued)																		
T8 (continued)																		
T8	Single Pin (Fa8)	59	96.0	25810	F96T8/GO/CVG	24	1500	4492	4400								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
T12																		
T12	Medium Bi-Pin (G13)	40	48.0	25850	F40/GO/CVG	30	20000	2510	2460								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
T12	Single Pin (Fa8)	55	72.0	25854	F72T12/GO/CVG	15	12000	4150	4070								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
		55	96.0	25852	F96T12/GO/CVG	15	12000	5640	5530								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
T12	Recessed Double Contact (R17d)	110	96.0	25853	F96T12/GO/HO/CVG	15	12000	8010	7850								103	Gold Sleeved, Blocks UV and Deep Blue Emissions
Germicidal Lamps																		
T5	Miniature Bi-Pin (G5)	4	6.0	15872	G4T5	24	6000									16	106	Clear, UVC Source
		6	8.0	15873	G6T5	24	6000									16	106	Clear, UVC Source
		8	12.0	11077	G8T5	24	7500									16	106	Clear, UVC Source
		11	9.0	29495	G11T5	24	8000									16	106	Clear, UVC Source
		16	12.0	16494	G16T5	24	8000									16	106	Clear, UVC Source
		39	36.0	15874	G36T5	24	9000									16	106	Clear, UVC Source
		65	64.0	15864	G64T5	24	9000									16	106	Clear, UVC Source
T5	4-Pin (G10q)	11	9.0	29500	G11T5/4P/SE	24	8000									9,16	106	Clear, UVC Source
		16	13.0	29502	G16T5/4P/SE	24	8000									9,16	106	Clear, UVC Source
		25	22.0	72640	G25T5/4P/SE	24	8000									9,16	106	Clear, UVC Source
		39	34.0	29503	G36T5/4P/SE	24	9000									9,16	106	Clear, UVC Source
		65	64.0	29504	G64T5/4P/SE	24	9000									9,16	106	Clear, UVC Source
T8	Medium Bi-Pin (G13)	95	14.0	29498	G10T8	24	6000									16	106	Clear, UVC Source
		15	18.0	11078	G15T8	24	7500									16	106	Clear, UVC Source
		25	18.0	11082	G25T8	24	7500									16	106	Clear, UVC Source
		30	36.0	11080	G30T8	24	7500									16	106	Clear, UVC Source
		36	48.0	29499	G36T8	24	8000									16	106	Clear, UVC Source
		55	36.0	15875	G55T8/HO	24	8000									16	106	Clear, UVC Source
T10	Medium Bi-Pin (G13)	20	24.0	15876	G20T10	24	8000									9,16	106	Clear, UVC Source
		40	48.0	29532	G40T10	24	8000									9,16	106	Clear, UVC Source
Plant and Aquarium/Terrarium Lamps																		
T8																		
15" T8 Lamps																		
T8	Medium Bi-Pin (G13)	14	15.0	41373	F14T8/AR/FR 6PK	24	7500	425		4000	92						104	Aquarium Lamp Freshwater
		14	15.0	40903	F14T8/AR/FS/6PK	24	7500	550		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		14	15.0	41375	F14T8/AR/SA 6PK	24	7500	190		10000	62						104	Aquarium Lamp Saltwater
		14	15.0	41377	F14T8/SR 6PK	24	7500	565		5000	90						104	Aquarium/Terrarium Lamp
18" T8 Lamps																		
T8	Medium Bi-Pin (G13)	15	18.0	22907	F15T8/AR/FR 6PK	24	7500	425		4000	92						104	Aquarium Lamp Freshwater
		15	18.0	22910	F15T8/AR/FS 6PK	24	7500	675		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		15	18.0	22920	F15T8/AR/SA 6PK	24	7500	210		10000	62						104	Aquarium Lamp Saltwater
		15	18.0	49892	F15T8/PL/AQ 6PK	24	7500	510		3100	90						104	Plant & Aquarium Wide Spectrum
		15	18.0	22904	F15T8/SR 6PK	24	7500	620		5000	90						104	Aquarium/Terrarium Lamp

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Plant and Aquarium/Terrarium Lamps (continued)																		
T8 (continued)																		
36" T8 Lamps																		
T8	Medium Bi-Pin (G13)	30	36.0	41374	F30T8/AR/FR 6PK	24	7500	675		4000	92						104	Aquarium Lamp Freshwater
		30	36.0	40904	F30T8/AR/FS/6PK	24	7500	1400		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		30	36.0	41376	F30T8/AR/SA 6PK	24	7500	315		10000	62						104	Aquarium Lamp Saltwater
T12																		
24" T12 Lamps																		
T12	Medium Bi-Pin (G13)	20	24.0	22908	F20T12/AR/FR 6PK	24	9000	600		4000	92						104	Aquarium Lamp Freshwater
		20	24.0	22911	F20T12/AR/FS 6PK	24	9000	950		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		20	24.0	22922	F20T12/AR/SA 6PK	24	9000	270		10000	62						104	Aquarium Lamp Saltwater
		20	24.0	49891	F20T12/PL/AQ/ECO	24	9000	750		3100	90						104	Plant & Aquarium Wide Spectrum
		20	24.0	22905	F20T12/SR 6PK	24	9000	875		5000	90						104	Aquarium/Terrarium Lamp
36" T12 Lamps																		
T12	Medium Bi-Pin (G13)	30	36.0	41378	F30T12/SR 6PK	24	18000	1100		5000	90						104	Aquarium/Terrarium Lamp
48" T12 Lamps																		
T12	Medium Bi-Pin (G13)	40	48.0	22909	F40T12/AR/FR 6PK	24	9000	1425		4000	92						104	Aquarium Lamp Freshwater
		40	48.0	22914	F40T12/AR/FS 6PK	24	9000	2350		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		40	48.0	22923	F40T12/AR/SA 6PK	24	9000	700		10000	62						104	Aquarium Lamp Saltwater
		40	48.0	49893	F40PL/AQ/ECO	24	20000	1900		3100	90						104	Plant & Aquarium Wide Spectrum
		40	48.0	22906	F40T12/SR 6PK	24	20000	2250		5000	90						104	Aquarium/Terrarium Lamp
Export Outside U.S. and Canada Only																		
T12	Medium Bi-Pin (G13)	40	22.5	14496	F40CW/U/6/EX	12	14000	2800	2460	4100	60						102	6" Spacing Between Legs
		40	22.5	14498	F40D/U/6/EX	12	14000	2350	2070	6500	75	✐					102	Daylight, 6" Spacing Between Legs
		40	48.0	14656	F40CW/EX-30PK	30	20000	3050	2680	4100	60						101	
		40	48.0	14488	F40D/EX	30	20000	2550	2240	6500	75	✐					101	Daylight
T12	Single Pin (Fa8)	75	96.0	12541	F96T12CW/EX-15PK	15	12000	6150	5660	4100	60						101	
		75	96.0	12543	F96T12/D/EX-15PK	15	12000	5250	4330	6500	75	✐					101	Daylight
T12	Recessed Double Contact (R17d)	110	96.0	12540	F96T12CW/HO/EX	15	12000	8900	7740	4100	60						101	
		110	96.0	12542	F96T12D/HO/EX-15	15	12000	7600	6610	6500	75	✐					101	Daylight
Consumer Products																		
T8																		
4' T8																		
T8	Medium Bi-Pin (G13)	32	48.0	15900	F32T8SP30ECO/UPC	36	20000	2800	2660	3000	78	✐			Ⓒ		101	
		32	48.0	15903	F32T8SP35ECO/UPC	36	20000	2800	2660	3500	78	✐			Ⓒ		101	
		32	48.0	11873	F32T8SP35ECO12PK	12	20000	2800	2660	3500	78	✐			Ⓒ		101	
		32	48.0	15909	F32T8SP41ECO/UPC	36	20000	2800	2660	4100	78	✐			Ⓒ		101	
		32	48.0	15904	F32T8/SP41/ECO/C	12	20000	2800	2660	4100	78	✐			Ⓒ		101	
		32	48.0	16263	F32T8/RES/ECO2P	12	20000	2650	2385	4100	78	✐			Ⓒ		101	
		32	48.0	31231	F32T8/RES/ECO/2PK	24	15000	2650	2385	4100	78	✐			Ⓒ		101	
		32	48.0	49356	F32T8/KB/ECO/2PK	6	20000	2800	2660	4100	78	✐			Ⓒ		104	Kitchen & Bath
		32	48.0	49357	F32T8/KB/ECO/2PK-24	24	20000	2800	2660	3000	78	✐			Ⓒ		104	Kitchen & Bath
		32	48.0	29566	F32T8/D/ECO/2PK	24	20000	2700	2565	3000	78	✐			Ⓒ		101	Daylight
		32	48.0	87783	F32T8/D/ECO/2PK	6	20000	2700	2565	6500	78	✐			Ⓒ		101	Daylight
8' T8																		
T8	Single Pin (Fa8)	59	96.0	10401	F96T8/SP41/UPC	24	15000	5800	5500	4100	78	✐			Ⓒ		101	

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Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Consumer Products (continued)																		
T12																		
4' F40 Ecolux® Standard																		
T12	Medium Bi-Pin (G13)	40	48.0	23382	F40SP41/ECO/C	10	20000	3200	2910	4100	72	✓			Ⓔ		101	
		40	48.0	25400	F40SP65/ECO/UPC	30	20000	3050	2775	6500	75	✓			Ⓔ		101	
		40	48.0	25399	F40C50/ECO/UPC	30	20000	2250	1870	5000	90	✓					101	Chroma 50
		40	48.0	16083	F40D/ULTRA/ECO2PK	9	20000	3050	2775	6500	75	✓			Ⓔ		101	Daylight Ultra
		40	48.0	13969	F40D/ULTRA/ECO6P	24	20000	3050	2775	6500	75	✓			Ⓔ		101	Daylight Ultra
		40	48.0	40333	F40/KB/ECO/ 2PK	9	20000	3400	3090	3000	70				Ⓔ		104	Kitchen & Bath
		40	48.0	21323	F40KB/ECO 6PK	24	20000	3400	3090	3000	70	✓			Ⓔ		104	Kitchen & Bath
		40	48.0	12224	F40/SUN/ECO/6PK	24	20000	2250	1870	5000	90	✓					101	Sunlight
		40	48.0	10949	F40/RES/ECO/LL2P	9	20000	3200	2910	4100	72	✓			Ⓔ		101	
		40	48.0	14440	F40/RES/ECO/SLV	30	15000	3150	2860	4100	72	✓			Ⓔ		101	
		40	48.0	14433	F40/RES/ECO/SLV6	24	15000	3150	2860	4100	72	✓			Ⓔ		101	
		40	48.0	14441	F40/RES/ECO/TWN9	9	15000	3150	2860	4100	72	✓			Ⓔ		101	
		40	48.0	48510	F40/RES/ECO/TWIN-15PK	15	15000	3150	2860	4100	72	✓			Ⓔ		101	
4' Ecolux® Utility Shoplight																		
T12	Medium Bi-Pin (G13)	25	48.0	14445	F4825W/UTECOUPC	30	12000	1860	1675	4100	60					10	101	
		25	48.0	14450	F4825W/UTECOSLV	30	12000	1860	1675	4100	60					10	101	
		25	48.0	14456	F48/25W/UTECOTWN	9	12000	1860	1675	4100	60					10	101	
4' F34 Ecolux® Watt-Miser® Energy Saving Lamps																		
T12	Medium Bi-Pin (G13)	34	48.0	21858	F34SP35RSWMECOUPC	24	20000	2750	2475	3500	73	✓	$	⇥	Ⓔ	1	101	
		34	48.0	25391	F34CW/RSWMECOUPC	30	20000	2650	2280	4100	60		$	⇥	Ⓔ	1	101	
		34	48.0	23485	F34CWRSWMECOC10PK	10	20000	2650	2280	4100	60		$	⇥	Ⓔ	1	101	
		34	48.0	25398	F34WWRSWMECO/UPC	30	20000	2700	2320	3000	52		$	⇥	Ⓔ	1	101	Warm White
Mod-U-Line® Watt-Miser® U-Tubes																		
T12	Medium Bi-Pin (G13)	35	22.5	14471	F35CW/U/6/WM/UPC	12	14000	2300	2100	4100	60		$	⇥	Ⓔ	1	102	
		35	22.5	23383	F35CW/U6/WM/C	6	14000	2300	2100	4100	60		$	⇥	Ⓔ	1	102	
Mod-U-Line® Standard U-Tubes																		
T12	Medium Bi-Pin (G13)	40	22.5	22050	F40SP35/U/6/UPC	12	14000	3050	2780	3500	73	✓			Ⓔ		102	
T12	Miniature Bi-Pin (G5)	40	22.5	25374	F40SCW/U6/UPC/6PK	6	14000	2800	2460	4100	75	✓			Ⓔ		102	Super Cool White
T12 Instant Start																		
4' T12																		
T12	Single Pin (Fa8)	40	48.0	20461	F48T12CW/UPC 6PK	24	9000	2875	2650	4100	60						101	
8' T12																		
T12	Single Pin (Fa8)	75	96.0	10149	F96T12/SP41/UPC	15	12000	6500	6110	4100	72	✓			Ⓔ		101	
8' T12 Watt-Miser® Energy Saving Lamps																		
T12	Single Pin (Fa8)	60	96.0	21856	F96T12SP35WM/UPC	15	12000	5700	5360	3500	73	✓	$	⇥	Ⓔ	1	101	
		60	96.0	11217	F96T12SP35WMC10PK	10	12000	5700	5360	3500	73	✓	$	⇥	Ⓔ	1	101	
		60	96.0	25395	F96T12/SP41/WM/UPC	15	12000	5700	5360	4100	72	✓	$	⇥	Ⓔ	1	101	
		60	96.0	21713	F96T12CWWMUPC10PK	10	12000	5500	5060	4100	60		$	⇥	Ⓔ	1	101	
		60	96.0	25171	F96T12/UTCW/EE/C	10	12000	5500	5060	4100	60		$	⇥	Ⓔ	1	101	
8' T12 Ecolux® Watt-Miser® Energy Saving Lamps																		
T12	Single Pin (Fa8)	60	96.0	16816	F96T12CW/WMECO-S	15	12000	5500	5060	4100	60		$	⇥	Ⓔ	1	101	
T12 Rapid Start																		
T12	Medium Bi-Pin (G13)	30	36.0	39176	F30T12/CW/RS 6PK	24	18000	2200	1910	4100	60						101	
		30	36.0	77119	F30T12/RS/KB/ECO	24	18000	2350	2120	3000	70	✓					104	Kitchen & Bath
T12 High Output Rapid Start Recessed Double Contact																		
T12	Recessed Double Contact (R17d)	60	48.0	27313	F48T12/CW/HO/UPC	24	12000	4050	3520	4100	60						101	
		95	96.0	21714	F96T12CWHOWMUPC	15	12000	8000	6960	4100	60		$	⇥	Ⓔ	1	101	

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Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Rendering	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
Preheat																		
T5																		
T5	Miniature Bi-Pin (G5)	4	6.0	15983	F4T5/CW CARD	10	5000	135	100	4100	60						101	Preheat
		6	9.0	15986	F6T5/CW CARD	10	5000	295	235	4100	60						101	Preheat
		8	12.0	15987	F8T5/CW CARD	10	5000	400	320	4100	60						101	Preheat
		8	12.0	25425	F8T5/WW/CARD	5	5000	410	330	3000	52						101	Preheat, Warm White
		13	21.0	49333	F13T5/CW/CD	5	5000	850	705	4100	60						101	
		13	21.0	25426	F13T5/WW/CARD	5	5000	870	720	3000	52						101	Preheat, Warm White
T8																		
T8	Medium Bi-Pin (G13)	15	18.0	13968	F15T8/SUN 6PK	24	7500	620	525	5000	90	✓					101	Preheat, Sunlight
		15	18.0	21326	F15T8/KB 6PK	24	7500	940	850	3000	70	✓					104	Preheat, Kitchen & Bath
		15	18.0	10143	F15T8/CW 6PK	24	7500	825	725	4100	60						101	Preheat
		30	36.0	22747	F30T8/KB 6PK	24	7500	2125	1910	3000	70	✓					104	Preheat, Kitchen & Bath
T12																		
T12	Medium Bi-Pin (G13)	14	15.0	10117	F14T12/CW 6PK	24		650	550	4100	60						101	Preheat
		14	15.0	22979	F14T12/KB 6PK	24	9000	700	650	3000	70	✓					104	Preheat, Kitchen & Bath
		15	18.0	10183	F15T12/CW 6PK	24	9000	760	685	4100	60						104	Preheat, Kitchen & Bath
		15	18.0	22745	F15T12/KB 6PK	24	9000	785	730	3000	70	✓					104	Preheat, Kitchen & Bath
		20	24.0	80046	F20T12/CW/ECO6PK	24	9000	1200	1150	4100	60						101	Preheat
		20	24.0	25575	F20T12/D/ECO/UPC	24	9000	1025	945	6500	75	✓					101	Preheat, Daylight
		20	24.0	21325	F20T12/KB/ECO	24	9000	1275	1200	3000	70	✓					104	Preheat, Kitchen & Bath
		20	24.0	14419	F20T12/SUN/ECO	24	9000	875	790	5000	90	✓					101	Preheat, Sunlight
		20	24.0	25577	F20T12/WW/ECOUPC	24	9000	1250	1150	3000	52						101	Preheat, Warm White
		20	24.0	10231	F20T12/B 6PK	24	9000	450	330								101	Preheat
		20	24.0	10233	F20T12/G 6PK	24	9000	1575	957								101	Preheat
Blacklight																		
T8	Medium Bi-Pin (G13)	15	24.0	35884	F15T8/BL 6PK	24	7500									8	105	Blacklight, UVA Source
T12	Medium Bi-Pin (G13)	20	24.0	10244	F20T12/BL 6PK	24	9000									8	105	Blacklight, UVA Source
		40	40.0	10526	F40BL 6PK	24	20000									8	105	Blacklight, UVA Source
Blacklight Blue																		
T8	Medium Bi-Pin (G13)	15	18.0	35885	F15T8/BLB 6PK	24	7500										101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T12	Medium Bi-Pin (G13)	20	24.0	34747	F20T12/BLB 6PK	24	9000										101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T9	4-Pin (G10q)	22	8.25	25665	FC8T9/BLB	6	12000										101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T12	Medium Bi-Pin (G13)	40	40.0	10531	F40BLB 6PK	24	20000										101	Blacklight Blue, UVA Source, Integral Dark Blue Filter
T9 Circline®																		
T9	4-Pin (G10q)	20	6.5	42732	FC6T9/CW	12	12000	800	560	4100	60						101	
		20	8.25	33774	FC8T9/CW	12	12000	1100	825	4100	60						101	
		22	8.25	11026	FC8T9/D	12	12000	925	690	6500	75	✓					101	Daylight
		22	8.25	11084	FC8T9/KB	6	12000	1400	1120	3000	82	✓					104	Kitchen & Bath
		32	12.0	33890	FC12T9/CW	12	12000	1950	1460	4100	60						101	
		32	12.0	11039	FC12T9/D	12	12000	1675	1260	6500	75	✓					101	Daylight
		32	12.0	11085	FC12T9/KB	6	12000	2400	1920	3000	82	✓					104	Kitchen & Bath
		40	16.0	33893	FC16T9/CW	12	12000	2700	2030	4100	60						101	
		40	16.0	11052	FC16T9/D	12	12000	2250	1690	6500	75	✓					101	Daylight

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Fluorescent Lamps

Bulb Shape	Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	High Color Render-ing	Energy Savings	Reduced Wattage	Meets Federal Minimum Efficiency Standards	Footnotes	Warning and Caution Notices	Additional Information
covRguard® Shatter Resistant																		
T8 Preheat																		
T8	Medium Bi-Pin (G13)	15	18.0	46627	F15T8/KB/CVG/UPC	24	7500	910		3000	70	✐				11,13	104	Kitchen & Bath
T12 Rapid Start																		
T12	Medium Bi-Pin (G13)	25	48.0	46625	F4825WUTSLCVGUPC	30	12000	1800		4100	60					11,13	103	
		40	48.0	80995	F40KB/ECO/CVGUPC	24	20000			3000	70	✐				11,13	108	Kitchen & Bath
		40	48.0	80999	F40CW/ECO/CVGUPC	30	20000			4100	70					11,13	103	
T12 Rapid Start Watt-Miser®																		
T12	Medium Bi-Pin (G13)	34	48.0	80997	F34CW/WMECOCVGUPC	30	20000			4100	60		$	✒	Ⓔ	1,11,13	103	
T12 Preheat																		
T12	Medium Bi-Pin (G13)	20	24.0	80984	F20T12CWECOCVGUPC	24	9000			4100	60					11,13	103	
		20	24.0	80985	F20T12KBECOCVGUPC	24	9000			3000	70	✐				11,13	108	Kitchen & Bath
T12 Instant Start																		
T12	Single Pin (Fa8)	60	96.0	41002	F96T12CW/WM/CVG/UPC	15	12000	5330	4910	4100	60		$	✒		1,11,13	103	Watt-Miser®
Plant and Aquarium / Terrarium																		
T8	Medium Bi-Pin (G13)	14		41373	F14T8/AR/FR 6PK	24	7500	425		4000	92						104	Aquarium Lamp Freshwater
		14		40903	F14T8/AR/FS/6PK	24	7500	550		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		14		41375	F14T8/AR/SA 6PK	24	7500	190		10000	62						104	Aquarium Lamp Saltwater
		14		41377	F14T8/SR 6PK	24	7500	565		5000	90						104	Aquarium/Ter-rarium Lamp
		15		22907	F15T8/AR/FR 6PK	24	7500	425		4000	92						104	Aquarium Lamp Freshwater
		15		22910	F15T8/AR/FS 6PK	24	7500	675		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		15		22920	F15T8/AR/SA 6PK	24	7500	210		10000	62						104	Aquarium Lamp Saltwater
		15		49892	F15T8/PL/AQ 6PK	24	7500	510		3100	90						104	Plant & Aquarium Wide Spectrum
		15		22904	F15T8/SR 6PK	24	7500	620		5000	90						104	Aquarium/Ter-rarium Lamp
T12	Medium Bi-Pin (G13)	20		22908	F20T12/AR/FR 6PK	24	9000	600		4000	92						104	Aquarium Lamp Freshwater
		20		22911	F20T12/AR/FS 6PK	24	9000	950		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		20		22922	F20T12/AR/SA 6PK	24	9000	270		10000	62						104	Aquarium Lamp Saltwater
		20		49891	F20T12/PL/AQ/ECO	24	9000	750		3100	90						104	Plant & Aquarium Wide Spectrum
		20		22905	F20T12/SR 6PK	24	9000	875		5000	90						104	Aquarium/Ter-rarium Lamp
T8	Medium Bi-Pin (G13)	30		41374	F30T8/AR/FR 6PK	24	9000	675		4000	92						104	Aquarium Lamp Freshwater
		30		40904	F30T8/AR/FS/6PK	24	7500	1400		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		30		41376	F30T8/AR/SA 6PK	24	9000	315		10000	62						104	Aquarium Lamp Saltwater
T12	Medium Bi-Pin (G13)	30		41378	F30T12/SR 6PK	24	18000	1100		5000	90						104	Plant & Aquarium Wide Spectrum
		40		22909	F40T12/AR/FR 6PK	24	9000	1425		4000	92						104	Aquarium Lamp Freshwater
		40		22914	F40T12/AR/FS 6PK	24	9000	2350		9325	64						104	Aquarium Lamp Freshwater & Saltwater
		40		22923	F40T12/AR/SA 6PK	24	9000	700		10000	62						104	Aquarium Lamp Saltwater
		40		49893	F40PL/AQ/ECO	24	20000	1900		3100	90						104	Plant & Aquarium Wide Spectrum
		40		22906	F40T12/SR 6PK	24	20000	2250		5000	90						104	Aquarium/Ter-rarium Lamp

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Operating Notes

General Operation

GE fluorescent lamps should be used only with auxiliary equipment designed to produce proper characteristics. Specifications for auxiliary equipment are covered by ANSI. Specifications for auxiliary equipment not included in ANSI Standards are available from GE Lighting.

Factors Affecting Lamp Performance

Ballasts

The three basic types of ballasts for fluorescent lamps are Preheat (PH), Instant Start (IS), and Rapid Start (RS). In general, lamps identified as preheat, rapid start or instant start should be used only on the corresponding ballast type. Electronic ballasts are presently available in both instant start and rapid start designs. Ballasts that operate with output currents below recommended levels, either by design or poor performance, will reduce fluorescent lamp life.

Application – Choosing the appropriate ballast for an application can have an impact on lamp life. For example, T8 lamps with electronic Instant Start ballasts should not be used in applications with electronic controls (such as occupancy sensors). The frequent switching will significantly reduce lamp life. Use only programmed rapid start ballasts in these situations.

Operating Characteristics – Fluorescent lamp life is strongly affected by the ballast. ANSI has set standards for fluorescent ballasts that will ensure proper operation of fluorescent lamps. Ballast characteristics that have a significant effect on lamp life are Current Crest Factor, Starting Time, Cathode Voltage and Open Circuit Voltage.

Ballast Factor – This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast under laboratory conditions. For example, a ballast having a ballast factor of 0.93 will result in the lamp emitting 93% of its rated lumen output.

High Frequency – All fluorescent lamps operate more efficiently when driven at frequencies greater than 15 kHz. Four-foot fluorescent lamps operate approximately 10% more efficiently, while eight-foot lamps improve efficiency by about 5%. This efficiency improvement is one reason for the popularity of electronic ballasts.

Temperature

Light output and watts of a fluorescent lamp are affected by the ambient temperature, and by drafts. Most fluorescent lamps reach their maximum light output at room temperatures or at "luminaire temperatures." All-Weather fluorescent lamps are designed with jackets that improve performance in low-temperature environments.

Luminaire

The design of the lighting fixture (luminaire) affects the ambient temperature in which the fluorescent lamps will be operating. A fixture that operates too cool or warm will result in lower light output from the lamps and reduce illumination levels.

Starting

The life of a fluorescent lamp is affected by the number of times the lamp is started. Starting results in shorter lamp life, while continuous operation will provide the longest lamp life. All fluorescent lamps, except where noted, have life ratings based on three hours per start.

General Information

Lumens

Nominal Initial Lumens refer to the nominal light output of the lamp after 100 hours of operation at 25° C. **Nominal Mean Lumens** refer to the nominal light output of the lamp at 40% of its rated life. Some values are based on engineering calculations derived from extrapolation of initial measured lumens.

A self-ballasted lamp is measured using its integral ballast. Lamps without an integral ballast are measured using reference ballasts.

Lumens produced by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings. For lighting design calculations, refer to the ballast manufacturer's published data for the appropriate "Ballast Factor."

Nominal Watts

Wattage is classified in accordance with American National Standards Institute standards and may not be the same as the wattage run on a reference ballast. The nominal wattage as defined by ANSI may vary from the listed wattage. Watts consumed by lamps operated on commercial ballasts may not be equivalent to reference ballast ratings.

Rated Life

The rated life (hours) is the approximate median life when lamps are operated for three hours per start under laboratory conditions using an ANSI reference ballast or GE Lighting specifications where no industry standards exist. Some lamps are rated at 12 hours per start where noted.

Performance Notes:

T8 Lamps:

- Rated life for 2 ft through 4 ft. Starcoat® Ecolux® Medium Bi-Pin T8 Lamps is Rated life on programmed rapid start circuits.
- Rated life for the F40T8 is rated life on rapid start circuits. Rated life for these linear lamps on instant start electronic circuits is reduced by 25%.

T12 Lamps:

- Life of 4' T12 lamps on single-lamp, rapid start ballasts may be reduced.

Color Temperature/Chromaticity

Approximate color temperature of fluorescent is measured using industry standard methods and is based on a nominal 40-watt source. Fluorescent sources operating at different lamp currents will have slightly shifted color appearances when compared to the corresponding 40-watt sources.

Scotopic/Photopic Ratio

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic Vision) and cones to yellow light (Photopic Vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens, for the light source, on an ANSI reference ballast. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

For the most up-to-date product information, see www.gelighting.com.

Scotopic/Photopic (S/P) Ratio:

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (Scotopic vision) and cones to yellow light (Photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. Cooler sources (higher color temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

T5	S/P Ratio
830	1.3
835	1.5
841	1.7
850	1.9
865	2.2
F28T8	**S/P Ratio**
SP30	1.3
SP35	1.5
SP41	1.8
SP50	2.0

F17 and F25T8	S/P Ratio
SP30	1.3
SP35	1.4
SP41	1.6
F17 and F25T8	**S/P Ratio**
SPX30	1.3
SPX35	1.5
SPX41	1.8
SPX50	2.0
SPX65	2.3

F32 and F32T8/WM	S/P Ratio
SP30	1.3
SP35	1.4
SP41	1.6
SP50	1.9
SP65	2.1
F32T8 and F32T8/HL	**S/P Ratio**
SPX30	1.3
SPX35	1.5
SPX41	1.8
SPX50	2.0
SPX65	2.3

Footnotes

1 Watt-Miser®, Watt-Miser® Plus, F28T8, F32T8/25W and Energy Efficient (/EE) lamps are intended for use where ambient temperatures are 60°F (16°C) or higher and where the lamp surface is protected from strong air drafts. Failure to protect the lamp surface may result in reduced life, poor starting or erratic operation, such as flickering or spiraling. These lamps are not recommended for use with dimming systems. All T12 Watt-Miser® lamps are intended for use on two-lamp, indoor, lead, high power factor ballasts and are not recommended for use with dimming or reduced current systems. The use of T12 Watt-Miser® lamps on single lamp ballasts may shorten lamp life. T12 Rapid Start Watt-Miser® lamps are intended for use only with Rapid Start Ballasts. F34 Rapid Start Watt-Miser® lamps on high frequency electronic systems may display erratic starting before end of life. T8 Watt-Miser® lamps and F28UMX lamps are intended for use only with instant start ballasts. They are, however, also approved for use on GE UltraStart® programmed rapid start ballasts.

3 F40T17/CW/IS lamps are for use only in fixtures equipped with instant start ballasts.

4 Because Power Groove® and Very High Output lamps are most used in commercial applications, the life rating is based on 12 hrs. per start.

6 Bare "Cold Temperature" lamps (as indicated by /CT) and "All Temperature" lamps are designed for use where ambient temperatures drop below 60°F (16°C).

7 Performance data based on engineering estimates.

8 ⚠ **CAUTION:** Risk Group 1 (Low Risk): UV emitted from this lamp. Skin or eye irritation could result. Minimize exposure.

9 ⚠ **WARNING:** Risk Group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result.

10 Shoplites are not recommended to be used on F40 full light output ballasts. Life will be reduced by approximately 50%.

11 Lumen rating based on approximate 3% reduction in light output with covRguard® sleeving.

12 Do not use covRguard® HO lamps in watertight or airtight fixtures.

13 Blocks 100% of UV-B and UV-C. Blocks from 75 to 99% of UV-A, depending on lamp type.

14 Life rating is based on 12 hrs. per start.

15 Lumen rating based on approximate 3% reduction in light output with jacket.

16 Life rating is based on UV maintenance curve and is measured at 80% of initial (100hr) UVC output.

17 Jacketed "Cold Temperature" lamps (as indicated by -CT) are designed for use where ambient temperatures do not rise above 32°F (0°C).

18 T8 lamps run on Instant Start ballasts should not be used in conjunction with electronic controls such as occupancy sensors. The frequent switching will significantly impact lamp life and void any warranties. Programmed Rapid Start ballasts such as GE's UltraStart® ballast should be used in these situations.

19 T5 Starcoat® Ecolux® lamp initial and mean lumen ratings are taken at 95°F (35°C)

Warning and Caution Notices

101

⚠ **WARNING**

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ **CAUTION**

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

102

⚠ **WARNING**

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ **CAUTION**

Improper handling may cause breakage

- Do not carry lamp by bracket

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

103

⚠ **WARNING**

Risk of electric shock

- Turn power off before inspection, installation or removal

104

⚠ **WARNING**

Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact

⚠ **CAUTION**

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

105

⚠ **WARNING**

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ **CAUTION**

Lamp emits UV radiation which may cause eye/skin irritation. RG-1

- Minimize exposure

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

106

⚠ **WARNING**

Risk of electric shock

- Turn power off before inspection, installation or removal

Lamp emits UV radiation which may cause eye/skin injury. RG-3

- Avoid exposure of eyes and skin to unshielded lamp

⚠ **CAUTION**

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

107

⚠ **WARNING**

Risk of electric shock

- Turn power off before inspection, installation or removal
- Do not open – there are no serviceable parts inside
- Do not drill or cut into plastic parts
- Avoid direct water/liquid contact
- Fully insert plug
- Use indoors only

⚠ **CAUTION**

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Lamp is not replaceable. Do not attempt to remove lamp from fixture
- Use in permanent installation only — not for portable use

Unit will fail if not installed properly

- Follow installation instructions

108

⚠ **WARNING**

Risk of electric shock

- Turn power off before inspection, installation or removal
- Avoid direct water/liquid contact

Compact Fluorescent Lamps

Compact Fluorescent Lamps

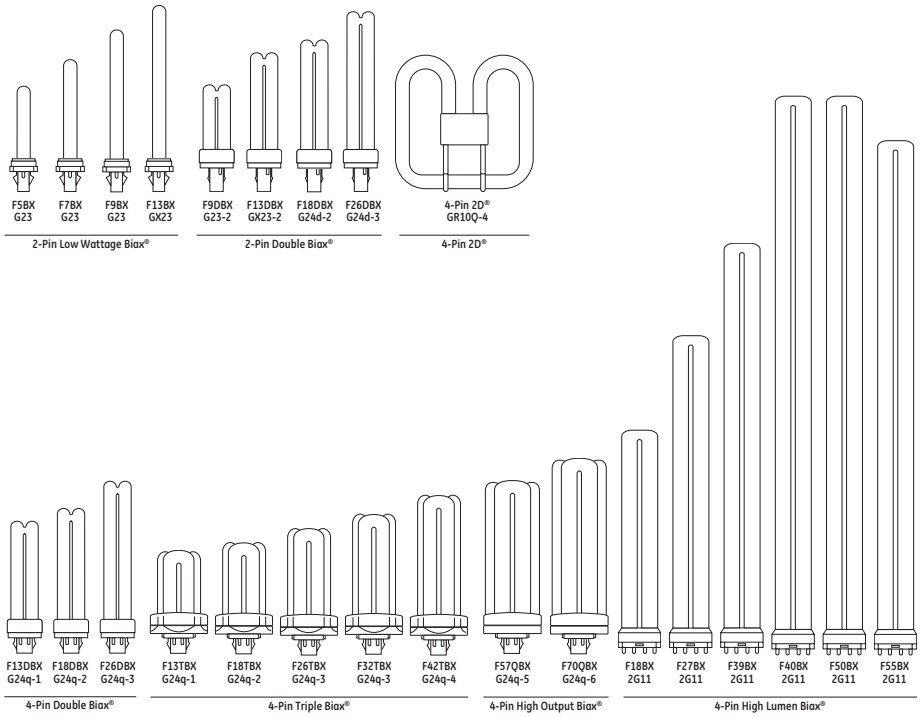
Bulb Identification

NOMINAL LENGTH:
Overall length including base or pins.

Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

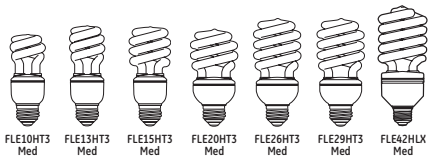
To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

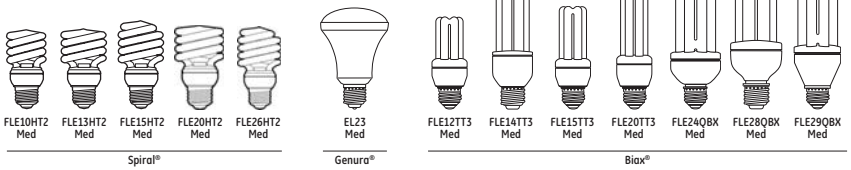
Lamp Locator

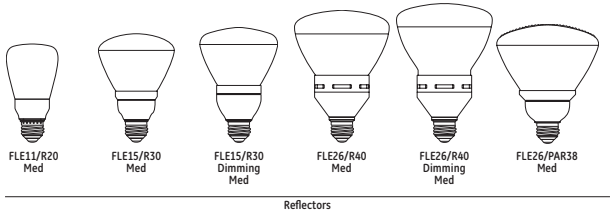


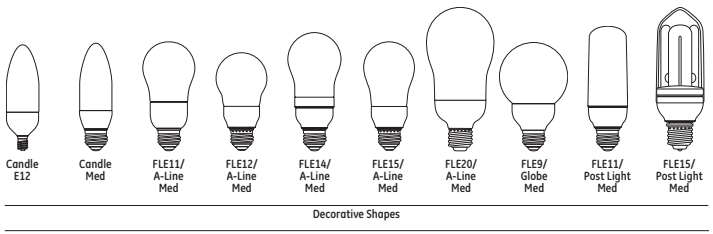
Plug-in Lamps

Lamp Locator (continued)

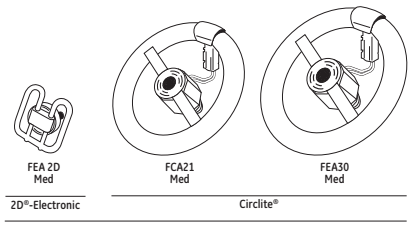








Self-Ballasted Lamps

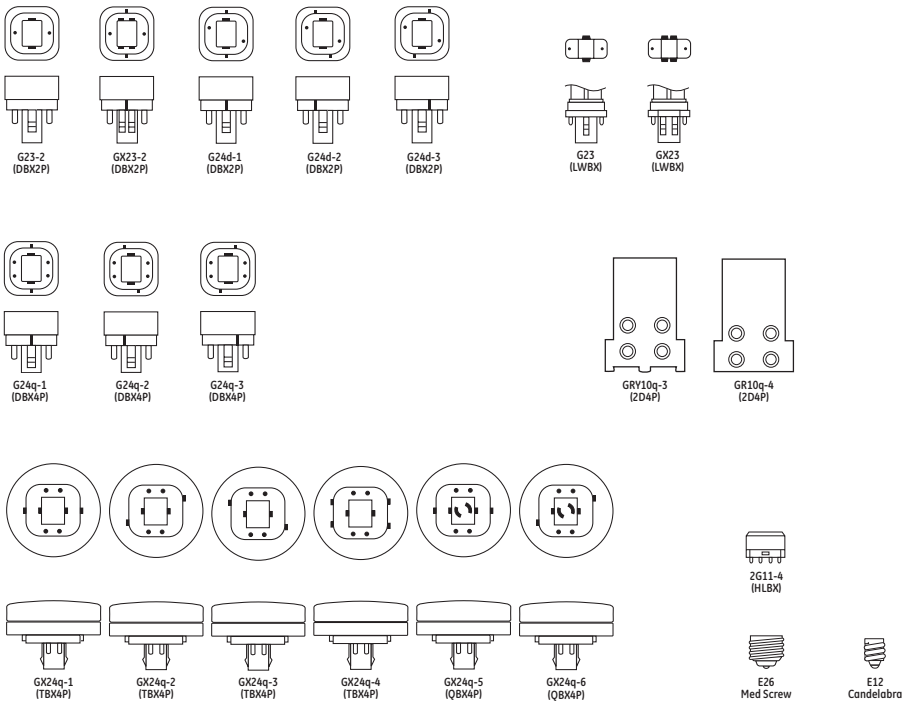


Lamps and Adapters

For the most up-to-date product information, see www.gelighting.com.

Compact Fluorescent Lamps

Base Identification



Introduction

GE Compact Fluorescent lamps offer many advantages:

- Dramatic energy cost savings...up to 77% vs. incandescent lamps of comparable light output
- Extra long life...most last 8 to 10 times longer, and some last up to 20 times longer, than standard incandescent lamps
- High light output comparable to, and in some cases exceeding, incandescent lamps replaced
- Excellent color rendering...rare earth tri-phosphor provides such high-quality color you won't believe it's fluorescent. Most types offer a choice of color options, from warm to cool, to let you select the tone and atmosphere you need.
- A choice of wattages, shapes and sizes to meet your lighting needs. Designed to fit everything from table lamps to wall sconces and ceiling fixtures.
- Many lamps use amalgam technology which provides stable lumen performance when operated in any position, over a wider range of ambient temperatures.

Compact Fluorescent Brand Name Cross-Reference

GE	OSRAM/SYLVANIA	PHILIPS
2D®	—	—
Biax®	Dulux® S	PL-S
High Lumen Biax®	Dulux® L	PL-L
Double Biax®	Dulux® D, D/E	PL-C
Triple Biax®	Dulux® T/E	PL-T
Quad Biax®	—	—
High Output Biax®	—	PL-H
Spiral®	Dulux® EL Twist	EL Twist
Genura®	Dura-One	—

ATTENTION: This brand-name cross-reference chart is provided only as a quick reference. Other lamp company brand listings may only represent a near equivalent, versus an identical match to GE Lighting brands. Individual lamp manufacturers' performance specifications should be consulted. Lamp performance may be affected by environmental conditions, ballast type and/or other auxiliary equipment.

Product Information

Plug-in Lamps

2-Pin Low Wattage Biax® (pg 5-7)
- Compact size offers fixture and design flexibility
- GX23 and G23 bases are preheat lamps with internal starters
- 13-watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm and cool color temperatures
- TCLP Compliant

4-Pin High Lumen Biax® (pg 5-7)
- Available in a range of sizes and wattages for innovative compact luminaires
- High efficiency and outstanding performance in fixtures make them ideal for 2X2, 1X1 and indirect fixtures
- Available in warm to cool color temperatures; excellent color rendering

2-Pin Double Biax® (pg 5-8)
- More compact than low-wattage Biax® CFLs with higher lumen output—suitable for a broad range of applications
- Preheat lamps with starters; not suitable for use with dimming ballasts
- 26-watt version also available with internal electronic starter, providing flicker-free instant on
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin Double Biax® (pg 5-8)
- More compact than low-wattage Biax® CFLs with higher lumen output—suitable for a broad range of applications
- Dimmable and compatible with electronic ballasts
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin Triple Biax® (pg 5-8)
- GE's shortest, most compact Biax® lamp. 17-31% shorter than similar wattage Double Biax® lamps.
- 4-Pin, dimmable and compatible with electronic ballasts
- Available in a wide range of wattages: from 13 to 42 watts
- Available in warm to cool color temperatures
- TCLP Compliant

4-Pin High Output Biax® (pg 5-9)
- GE's highest light output compact fluorescent lamps
- High efficacy 72-75 LPW
- Dimmable, available in 5 colors (2,700 to 5,000K)
- Suitable for high-bay lighting
- TCLP Compliant

4-Pin 2D® (pg 5-9)
- Unique shape suitable for broad range of applications
- Uniform light distribution
- High light output – up to 200W incandescent equivalent

Self-Ballasted Lamps

Spiral® (pg 5-10)
- Long life – up to 12,000 hours
- One-piece unit screws directly into incandescent sockets
- Wide variety of wattages to meet application needs
- T2 & T3 Spiral® CFLs provide economical solution with small overall size
- The 42-watt T4 Spiral® CFL provides a 150W incandescent replacement in the smallest possible size (fits an 8.5" harp)

Biax® (pg 5-11)
- Super long life – from 10,000 to 15,000 hour rating
- One-piece unit screws directly into incandescent sockets
- Wide variety of wattages to meet application needs
- T3 Mini Biax® CFL provides longest life with smallest overall size
- Selected lamps offer 3-way or dimming functionality

Reflectors (pg 5-11)
- R20, R30, R40 and PAR38 glass reflectors available to meet application needs
- Medium based; fits most incandescent reflector applications
- R30 and R40 lamps available with dimming functionality

Genura® (pg 5-12)
- Extremely long life – rated life of 15,000 hours
- One-piece unit screws directly into incandescent sockets
- Provides more light than 75W incandescent reflector lamps
- Electrodeless design

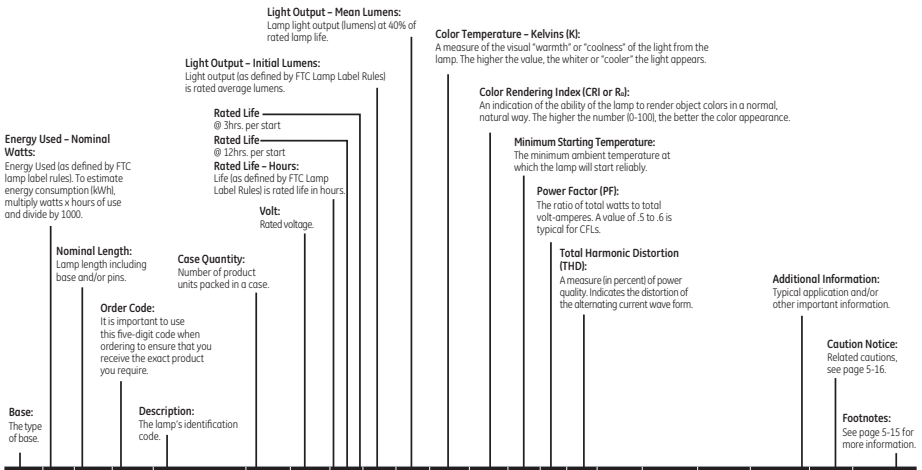
Decorative Shapes (pg 5-12)
- Variety of shapes (A-Line, Bullet, Candle, Globe, and Post) and wattages to meet all needs
- One-piece unit screws directly into incandescent sockets
- Candle-shaped CFLs available in both medium base and candelabra base

Lamps and Adapters

Circlite® (pg 5-13)
- Lamp and adapter are separate. Replaceable lamps plug into adapters that screw into standard incandescent sockets.
- Lamps rated for 10,000 hours; adapters rated for 40,000 hours (4 lamp lives)

Headings in this catalog section

The following terms and descriptions can help you when checking Compact Fluorescent lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.



Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Volts	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min. Start. Temp (°F)	Power Fact.	THD	TCLP Compliant Plug-Ins	EOL Protection Plug-Ins	ENERGY STAR® Screw-ins	Additional Information	Caution Notice	Footnotes
Self-Ballasted Lamps																				
Spiral®																				
Med	10	4.4	15829	FLE10HT3/2/827	10	120	8000	520	420	2700	82	5	0.6	120			★	T3 Spiral®, Boxed	153	1,7,8,9,10

FL E 10 HT3 / 2 / 827

- FL — Identifies as Fluorescent Lamp
- E — Electronically ballasted
- 10 — Identifies wattage
- HT3 — Identifies lamp shape
- 2 — Identifies additional information
- 827 — Identifies lamp's finish or color

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape next to lamp information.
2. Measure bulb diameter using ruler in appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 5-4.
4. Find your lamp in the table containing the bulb shape, size and base.

Base	Watts	Nom. Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min Starting Temp (°F)	TCLP Compliant Plug-Ins	EOL Protection Plug-Ins	Additional Information	Caution Notice	Footnotes
Plug-in Lamps																
2-Pin Low Wattage Biax®																
G23	5	4.2	97551	F5BX/827/ECO	100	10000	265	220	2700	82		✸			151	1,2
	5	4.2	97552	F5BX/827/CDECO	6	10000	265	220	2700	82		✸		Carded	151	1,2
	5	4.2	97553	F5BX/841/ECO	100	10000	265	220	4100	82		✸			151	1,2
	7	5.3	97554	F7BX/827/ECO	100	10000	425	350	2700	82		✸			151	1,2
	7	5.3	97555	F7BX/827/CDECO	6	10000	425	350	2700	82		✸		Carded	151	1,2
	7	5.3	97556	F7BX/835/ECO	100	10000	425	350	3500	82		✸			151	1,2
	7	5.3	97557	F7BX/841/ECO	100	10000	425	350	4100	82		✸			151	1,2
	9	6.6	97558	F9BX/827/ECO	100	10000	600	500	2700	82		✸			151	1,2
	9	6.6	97559	F9BX/827/CDECO	6	10000	600	500	2700	82		✸		Carded	151	1,2
	9	6.6	97560	F9BX/835/ECO	100	10000	600	500	3500	82		✸			151	1,2
	9	6.6	97561	F9BX/841/ECO	100	10000	600	500	4100	82		✸			151	1,2
GX23	13	7.0	97573	F13BX/827/ECO	100	10000	825	710	2700	82		✸			151	1,2
	13	7.0	97567	F13BX/827/CDECO	6	10000	825	710	2700	82		✸		Carded	151	1,2
	13	7.0	97574	F13BX/830/ECO	100	10000	825	710	3000	82		✸			151	1,2
	13	7.0	97569	F13BX/835/ECO	100	10000	825	710	3500	82		✸			151	1,2
	13	7.0	97568	F13BX/835ECO100P	100	10000	825	710	3500	82		✸		Bulk Pack	151	1,2
	13	7.0	97571	F13BX/841/ECO	100	10000	825	710	4100	82		✸			151	1,2
	13	7.0	97570	F13BX/841ECO100P	100	10000	825	710	4100	82		✸		Bulk Pack	151	1,2
	13	7.0	97572	F13BX/850/ECO	100	10000	784	675	5000	80		✸			151	1,2
	13	7.0	97562	F13BX/E/827/ECO	100	10000	825	710	2700	82		✸		Internal Electronic Starter	151	1,2
	13	7.0	97563	F13BX/E/830/ECO	100	10000	825	710	3000	82		✸		Internal Electronic Starter	151	1,2
	13	7.0	97564	F13BX/E/835/ECO	100	10000	825	710	3500	82		✸		Internal Electronic Starter	151	1,2
	13	7.0	97565	F13BX/E/841/ECO	100	10000	825	710	4100	82		✸		Internal Electronic Starter	151	1,2
	13	7.0	97566	F13BX/E/850/ECO	100	10000	785	675	5000	82		✸		Internal Electronic Starter	151	1,2
4-Pin High Lumen Biax®																
2G11	18	9.0	16649	F18BX/SPX30 10PK	40	10000	1200	1080	3000	82	25				151	1,2,4,6
	18	9.0	16053	F18BX/SPX35 10PK	40	10000	1200	1080	3500	82	25				151	1,2,4,6
	18	9.0	16940	F18BX/SPX41 10PK	40	10000	1200	1080	4100	82	25				151	1,2,4,6
	18	10.0	17174	F18BXSPX30RS10PK	40	20000	1250	1130	3000	82	50				151	1,2,6,13
	18	10.5	17175	F18BXSPX35RS10PK	40	20000	1250	1130	3500	82	50				151	1,2,6,13
	18	10.5	17176	F18BXSPX41RS10PK	40	20000	1250	1130	4100	82	50				151	1,2,6,13
	18	10.5	12521	F18BX/SPX65/RS	40	20000	1160	1050	6500	82	50				151	1,2,6,13
	27	4.9	16944	F27BXSPX30RS10PK	40	12000	1800	1620	3000	82	50				151	1,2,6,13
	27	12.8	16948	F27BXSPX35RS10PK	40	12000	1800	1620	3500	82	50				151	1,2,6,13
	27	12.8	16951	F27BXSPX41RS10PK	40	12000	1800	1620	4100	82	50				151	1,2,6,13
	39		16538	F39BXSPX30RS10PK	40	12000	2850	2510	3000	82	50				151	1,2,6,13
	39	16.5	15867	F39BXSPX35RS10PK	40	12000	2850	2510	3500	82	50				151	1,2,6,13
	39	16.5	16952	F39BXSPX41RS10PK	40	12000	2850	2510	4100	82	50				151	1,2,6,13
	40	22.5	16953	F40/30BXSPX30 10P	40	20000	3150	2840	3000	82	50				151	1,2,6,13
	40	22.5	20444	F40/30BXSPX30-36	36	20000	3150	2840	3000	82	50			Bulk Pack	151	1,2,6,13
	40	22.5	16648	F40/30BX/SPX35	40	20000	3150	2840	3500	82	50				151	1,2,6,13
	40	22.5	20446	F40/30BXSPX35-36	36	20000	3150	2840	3500	82	50			Bulk Pack	151	1,2,6,13
	40	22.5	16954	F40/30BX/SPX41	40	20000	3150	2840	4100	82	50				151	1,2,6,13
	40	22.5	20447	F40/30BXSPX41-36	36	20000	3150	2840	4100	82	50			Bulk Pack	151	1,2,6,13
	40	22.5	10490	F40/30BX/SPX50RS	36	20000	2900	2700	5000	80	50			Bulk Pack	151	1,2,6,13
	50	22.5	20898	F50BXSPX30RS10PK	40	14000	4000	3400	3000	82	50				151	1,2,6,13
	50	22.5	20899	F50BXSPX35RS10PK	40	14000	4000	3400	3500	82	50				151	1,2,6,13
	50	22.5	20900	F50BXSPX41RS10PK	40	14000	4000	3400	4100	82	50				151	1,2,6,13
	55	20.7	31951	F55BX/B30	25	10000	4800	4080	3000	82	50				151	1,2,6,13
	55	20.7	31952	F55BX/B35	25	10000	4800	4080	3500	82	50				151	1,2,6,13
	55	20.7	31953	F55BX/B40	25	10000	4800	4080	4100	82	50				151	1,2,6,13
	55	5.8	45851	F55BX/AR/FS 6PK	6	10000	4800	4080	9325	67	50			Fresh and Salt Water Phosphor	151	1,2,6,13
	55		45859	F55BX/AR/FS/BULK	25	10000	4800	4080	9325	67	50			Fresh and Salt Water Phosphor	151	1,2,6,13

Compact Fluorescent Lamps

Base	Watts	Nom. Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Rated Life @ 12 Hrs	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min Starting Temp (°F)	TCLP Compliant Plug-Ins	EOL Protection Plug-Ins	Additional Information	Caution Notice	Footnotes
Plug-in Lamps (continued)																	
2-Pin Double Biax®																	
G23-2	9	4.3	97576	F9DBX23/827/ECO	50	10000		550	470	2700	82		✸			151	1,2,17
	9	5.43	97575	F9DBX23/841/ECO	50	10000		550	470	4100	82		✸			151	1,2,17
GX23-2	13	4.7	97586	F13DBX23/827/ECO	50	10000		810	685	2700	82		✸			151	1,2,17
	13	4.7	97585	F13DBX/827/CD	6	10000		810	685	2700	82		✸		Carded	151	1,2,17
	13	4.7	97587	F13DBX23/830/ECO	50	10000		810	685	3000	82		✸			151	1,2,17
	13	4.7	97588	F13DBX23/835/ECO	50	10000		810	685	3500	82		✸			151	1,2,17
	13	4.7	97589	F13DBX23/841/ECO	50	10000		810	685	4100	82		✸			151	1,2,17
G24d-1	13	5.3	97590	F13DBX/827/ECO	50	10000		900	755	2700	82		✸			151	1,2,17
	13	5.3	97591	F13DBX/830/ECO	50	10000		900	755	3000	82		✸			151	1,2,17
	13	5.3	97592	F13DBX/835/ECO	50	10000		900	755	3500	82		✸			151	1,2,17
	13	5.3	97593	F13DBX/841/ECO	50	10000		900	755	4100	82		✸			151	1,2,17
G24d-2	18	6.1	97577	F18DBX/827/ECO	50	10000		1200	980	2700	82		✸			151	1,2,5,17
	18	6.1	97578	F18DBX/830/ECO	50	10000		1200	980	3000	82		✸			151	1,2,5,17
	18	6.1	97579	F18DBX/835/ECO	50	10000		1200	980	3500	82		✸			151	1,2,5,17
	18	6.1	97580	F18DBX/841/ECO	50	10000		1200	980	4100	82		✸			151	1,2,5,17
G24d-3	26	6.7	97606	F26DBX/827/ECO	50	10000		1710	1460	2700	82		✸			151	1,2,17
	26	6.7	97607	F26DBX/830/ECO	50	10000		1710	1460	3000	82		✸			151	1,2,17
	26	6.7	97608	F26DBX/835/ECO	50	10000		1710	1460	3500	82		✸			151	1,2,17
	26	6.7	97609	F26DBX/841/ECO	50	10000		1710	1460	4100	82		✸			151	1,2,17
	26	6.7	97602	F26DBX/E/827/ECO	50	10000		1710	1460	2700	82		✸		Internal Electronic Starter	151	1,2,15,17
	26	6.7	97603	F26DBX/E/830/ECO	50	10000		1710	1460	3000	82		✸		Internal Electronic Starter	151	1,2,15,17
	26	6.7	97604	F26DBX/E/835/ECO	50	10000		1710	1460	3500	82		✸		Internal Electronic Starter	151	1,2,15,17
	26	6.7	97605	F26DBX/E/841/ECO	50	10000		1710	1460	4100	82		✸		Internal Electronic Starter	151	1,2,15,17
4-Pin Double Biax®																	
G24q-1	13	5.0	97594	F13DBX/827/ECO4P	50	12000 20000			755	2700	82		✸	▲		151	1,2,6,17
	13	5.0	97595	F13DBX/830/ECO4P	50	12000 20000		900	755	3000	82		✸	▲		151	1,2,6,17
	13	5.0	97596	F13DBX/835/ECO4P	50	12000 20000		900	755	3500	82		✸	▲		151	1,2,6,17
	13	5.0	97597	F13DBX/841/ECO4P	50	12000		900	755	4100	82		✸	▲		151	1,2,6,17
G24q-2	18	5.8	97598	F18DBX/827/ECO4P	50	12000 20000		1200	970	2700	82		✸	▲		151	1,2,5,6,17
	18	5.8	97599	F18DBX/830/ECO4P	50	12000 20000		1200	970	3000	82		✸	▲		151	1,2,5,6,17
	18	5.8	97600	F18DBX/835/ECO4P	50	12000 20000		1200	970	3500	82		✸	▲		151	1,2,5,6,17
	18	5.8	97601	F18DBX/841/ECO4P	50	12000 20000		1200	970	4100	82		✸	▲		151	1,2,5,6,17
G24q-3	26	6.4	97610	F26DBX/827/ECO4P	50	12000	20000	1710	1440	2700	82		✸	▲		151	1,2,6,17
	26	6.4	97611	F26DBX/830/ECO4P	50	12000	20000	1710	1440	3000	82		✸	▲		151	1,2,6,17
	26	6.4	97612	F26DBX/835/ECO4P	50	12000	20000	1710	1440	3500	82		✸	▲		151	1,2,6,17
	26	6.4	97613	F26DBX/841/ECO4P	50	12000	20000	1710	1440	4100	82		✸	▲		151	1,2,6,17
4-Pin Triple Biax®																	
GX24q-1	13	4.2	97623	F13TBX827/4P/ECO	10	12000	20000	900	755	2700	82		✸	▲	Non-Amalgam	151	1,2,6,17
	13	4.2	97619	F13TBX/827/A/ECO	10	12000	20000	900	755	2700			✸	▲		151	1,2,6,12,17
	13	4.2	97620	F13TBX/830/A/ECO	10	12000	20000	900	755	3000			✸	▲		151	1,2,6,12,17
	13	4.2	97621	F13TBX/835/A/ECO	10	12000	20000	900	755	3500	82		✸	▲		151	1,2,6,12,17
	13	4.2	97622	F13TBX/841/A/ECO	10	12000	20000	900	755	4100			✸	▲		151	1,2,6,12,17
GX24q-2	18	4.8	97628	F18TBX827/4P/ECO	10	12000	20000	1200	1010	2700	82		✸	▲	Non-Amalgam	151	1,2,6,17
	18	4.8	97624	F18TBX/827/A/ECO	10	12000	20000	1200	1010	2700	82		✸	▲		151	1,2,6,12,17
	18	4.8	97625	F18TBX/830/A/ECO	10	12000	20000	1200	1010	3000			✸	▲		151	1,2,6,12,17
	18	4.8	97626	F18TBX/835/A/ECO	10	12000	20000	1200	1010	3500	82		✸	▲		151	1,2,6,12,17
	18	4.8	97627	F18TBX/841/A/ECO	10	12000	20000	1200	1020	4100	82		✸	▲		151	1,2,6,12,17
GX24q-3	26	5.2	97618	F26TBX827/4P/ECO	10	12000	20000	1710	1440	2700	82		✸	▲	Non-Amalgam	151	1,2,6,17
	26	5.2	97614	F26TBX/827/A/ECO	10	12000	20000	1710	1440	2700	82		✸	▲		151	1,2,6,12,17
	26	5.2	97615	F26TBX/830/A/ECO	10	12000	20000	1710	1440	3000	82		✸	▲		151	1,2,6,12,17
	26	5.2	97616	F26TBX/835/A/ECO	10	12000	20000	1710	1440	3500	82		✸	▲		151	1,2,6,12,17
	26	5.2	97617	F26TBX/841/A/ECO	10	12000	20000	1710	1440	4100	82		✸	▲		151	1,2,6,12,17
	32	5.5	97629	F32TBX/827/A/ECO	10	12000	20000	2200	1850	2700	82		✸	▲		151	1,2,6,12,17

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All footnotes and caution notices found at the end of this section (page 5-15).

Base	Watts	Nom. Length (in)	Order Code	Description	Case Qty	Rated Life (hrs)	Rated Life 12 Hrs	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min Starting Temp (°F)	TCLP Compliant Plug-Ins	EOL Protection Plug-Ins	Additional Information	Caution Notice	Footnotes
Plug-in Lamps (continued)																	
4-Pin Triple Biax® (continued)																	
GX24q-3	32	5.5	97630	F32TBX/830/A/ECO	10	12000	20000	2200	1850	3000	82		✸	▲		151	1,2,6,12,17
	32	5.5	97631	F32TBX/835/A/ECO	10	12000	20000	2200	1850	3500	82		✸	▲		151	1,2,6,12,17
	32	5.5	97632	F32TBX/841/A/ECO	10	12000	20000	2200	1850	4100	82		✸	▲		151	1,2,6,12,17
GX24-q4	42	6.4	97633	F42TBX/827/A/ECO	10	12000	20000	3200	2690	2700	82		✸	▲		151	1,2,6,12,17
	42	6.4	97634	F42TBX/830/A/ECO	10	12000	20000	3200	2690	3000	82		✸	▲		151	1,2,6,12,17
	42	6.4	97635	F42TBX/835/A/ECO	10	12000	20000	3200	2690	3500	82		✸	▲		151	1,2,6,12,17
	42	6.4	97636	F42TBX/841/A/ECO	10	12000	20000	3200	2690	4100	82		✸	▲		151	1,2,6,12,17
4-Pin High Output Biax®																	
GX24-q5	57	7.1	48861	F57QBX827A4P/EOL	10	12000		4300	3700	2700	82		✸	▲		151	1,2,6,12,17
	57	7.1	48862	F57QBX830A4P/EOL	10	12000		4300	3700	3000	82		✸	▲		151	1,2,6,12,17
	57	7.1	48863	F57QBX835A4P/EOL	10	12000		4300	3700	3500	82		✸	▲		151	1,2,6,12,17
	57	7.1	48864	F57QBX/841/A/ECO	10	12000		4300	3700	4100	82		✸	▲		151	1,2,6,12,17
	57	5.2	93404	F57QBX850A4P/EOL	10	12000		4300	3700	5000	82		✸	▲		151	1,2,6,12,17
GX24-q6	70	8.2	48865	F70QBX827A4P/EOL	10	12000		5200	4470	2700	82		✸	▲		151	1,2,6,12,17
	70	8.2	48866	F70QBX830A4P/EOL	10	12000		5200	4470	3000	82		✸	▲		151	1,2,6,12,17
	70	8.2	48867	F70QBX835A4P/EOL	10	12000		5200	4470	3500	82		✸	▲		151	1,2,6,12,17
	70	8.2	48868	F70QBX/841/A/ECO	10	12000		5200	4470	4100	82		✸	▲		151	1,2,6,12,17
	70	8.2	93406	F70QBX850A4P/EOL	10	12000		5200	4470	5000	82		✸	▲		151	1,2,6,12,17
4-Pin 2D®																	
GR10q-4	10	3.6	21301	F10ZD/827/4P	60	10000		650	545	2700	82					151	1,2,3,6
	16	5.5	22169	F16ZD/827/4P	50	10000		1050	880	2700	82					151	1,2,3,6
	16	5.5	22177	F16ZD/835/4P	50	10000		1050	880	3500	82					151	1,2,3,6
	21	5.5	21303	F21ZD/827/4P	50	10000		1350	1135	2700	82					151	1,2,3,6
	21	5.5	22178	F21ZD/835/4P	50	10000		1350	1135	3500	82					151	1,2,3,6
	28	8.1	22172	F28ZD/827/4P	20	10000		2050	1720	2700	82					151	1,2,3,6
	28	8.1	22180	F28ZD/835/4P	20	10000		2050	1720	3500	82					151	1,2,3,6
	38	8.1	21305	F38ZD/827/4P	20	10000		2850	2395	2700	82		✸			151	1,2,3,6
	38	8.1	25427	F38/2D/827/4P/CD	5	10000		2850	2395	2700	82		✸		Carded	151	1,2,3,6
	38	8.1	22181	F38ZD/835/4P	20	10000		2850	2395	3500	82		✸			151	1,2,3,6
GRY10q-3	55	8.1	36358	F55ZD/830A/T4P/B	20	10000		4000	3400	3000	82				Torchiere Replacement Lamp	151	1,2,3,6
	55	8.1	40184	F55ZD/830/4P/CD	5	10000		4000	3400	3000	82				Torchiere Replacement Lamp, Carded	151	1,2,3,6

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All footnotes and caution notices found at the end of this section (page 5-15).

Compact Fluorescent Lamps

Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Volts	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min. Start. Temp (°F)	Power Factor	THD	ENERGY STAR® Screw-Ins	Additional Information	Caution Notice	Footnotes
Self-Ballasted Lamps																		
Spiral®																		
Med	10	4.4	15829	FLE10HT3/2/B27	10	120	8000	520	420	2700	82	5	0.6	120	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	10	4.4	49906	FLE10HT3/2/SW/CD	12	120	8000	520	420	2700	82	5	0.6	120	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	10	4.4	49907	FLE10HT32SWCD2PK	3	120	8000	520	420	2700	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	10	4.4	25182	FLE10HT3/2/841	10		8000	520	420	4100	82	5	0.6		★	T3 Spiral®, Boxed	153	1,7,8,9,10
	10	4.4	89082	FLE10HT3/2/D/CD	12	120	8000	500	400	6500	82	5	0.6	120	★	Carded Single Pack		
	10	4.4	85393	FLE10HT3/2/D/2PK	3	120	8000	500	400	6500	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	10	4.4	80936	FLE10HT3/2/XL	10	120	12000	550	440	2700	82	5	0.6	120	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	10	4.4	47430	FLE10HT3/2/XL/CD	12	120	12000	550	440	2700	82	5	0.6	120	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	10	4.4	49671	FLE10HT3/2/XL2PK	3	120	12000	550	440	2700	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	10	3.7	86241	FLE10HT2/2/B27	10	120	12000	580	460	2700	82	5	0.5	120	★	T2 Spiral®, Boxed	153	1,7,8,9,10
	10	3.7	85382	FLE10HT2/2/SW/CD	3	120	12000	580	464	2700	82	5	0.5	120	★	T2 Spiral®, Carded Single Pack	153	1,7,8,9,10
Med	13	4.7	16460	FLE13HT3/2/SW/CD	12	120	8000	825	660	2700	82	5	0.6	120	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	13	4.7	16459	FLE13HT3/2/SW/2P	3	120	8000	825	660	2700	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	13	4.7	21760	FLE13HT3/2/10PK	10	120	8000	825	660	2700	82	5	0.6	120	★	T3 Spiral®, Consumer 10-Pack	153	1,7,8,9,10
	13	4.7	71763	FLE13HT3/2/6STP	6	120	6000	855	685	5000	82	5	0.6	145	★	T3 Spiral®, Tray Pack	153	1,7,8,9,10
	13	3.9	86256	FLE13HT2/2/B27	10	120	12000	870	695	2700	82	5	0.5	120	★	T2 Spiral®, Boxed	153	1,7,8,9,10
	13	3.9	85383	FLE13HT2/2/SW/CD	3	120	12000	870	750	2700	82	5	0.6	120	★	T2 Spiral®, Carded Single Pack	153	1,7,8,9,10
Med	15	4.8	15831	FLE15HT3/2/B27	10	120	8000	950	765	2700	82	5	0.6	145	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	15	4.8	25183	FLE15HT3/2/841	10	120	8000	950	765	4100	82	5	0.6	145	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	15	4.8	89091	FLE15HT3/2/D/CD	3	120	8000	900	738	6500	82	5	0.6	145	★	Carded Single Pack		
	15	4.8	85394	FLE15HT3/2/D/2PK	3	120	8000	900	738	6500	82	5	0.6	145	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	15	4.8	80937	FLE15HT3/2/XL/SW	10	120	12000	950	765	2700	82	5	0.6	145	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	15	4.8	47435	FLE15HT3/2/XL/CD	12	120	12000	950	765	2700	82	5	0.6	145	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	15	4.8	49680	FLE15HT3/2/XL2PK	3	120	12000	950	765	2700	82	5	0.6	145	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	15	4.1	86271	FLE15HT2/2/B27	10	120	12000	950	760	2700	82	5	0.5	120	★	T2 Spiral®, Boxed	153	1,7,8,9,10
	15	4.1	85385	FLE15HT2/2/SW/CD	12	120	8000	950	765	2700	82	5	0.6	145	★	T2 Spiral®, Carded Single Pack	153	1,7,8,9,10
	15	5.2	89619	FLE15HT3/2/DV	10	120	10000	900	720	2700	82	5	0.6	120	★	Dimming, Boxed	152	1,7,8,9,14
	15	5.2	89623	FLE15HT3/2/DV/CD	12	120	10000	900	720	2700	82	5	0.6	120	★	Dimming, Carded Single Pack	152	1,7,8,9,14
Med	20	4.7	15834	FLE20HT3/2/B27	10	120	8000	1200	965	2700	82	5	0.6	135	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	20	4.7	15516	FLE20HT3/2/SW/CD	12	120	8000	1200	965	2700	82	5	0.6	135	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	20	4.7	15518	FLE20HT3/2/SW/2P	3	120	8000	1200	965	2700	82	5	0.6	135	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	20	4.7	25186	FLE20HT3/2/841	10	120	8000	965	965	4100	82	5	0.6	135	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	20	4.7	80888	FLE20HT3/2/XL827	10	120	12000	1300	1040	2700	82	5	0.6	135	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	20	4.7	71764	FLE20HT3/2/6S/TP	6	120	6000	1235	990	5000	82	5	0.6	145	★	T3 Spiral®, Tray Pack	153	1,7,8,9,10
	20	4.7	89094	FLE20HT3/2/D/CD	12	120	8000	1150	945	6500	82	5	0.6	145	★	Carded Single Pack	153	1,7,8,9,14
	20	4.8	85396	FLE20HT3/2/D/2PK	3	120	8000	1150	945	6500	82	5	0.6	135	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	20	4.8	47442	FLE20HT3/2/XL/CD	12	120	12000	1300	1040	2700	82	5	0.6	135	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	20	4.8	49684	FLE20HT3/2/XL2PK	3	120	12000	1300	1040	2700	82	5	0.6	135	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	20	4.8	47466	FLE20HT3/2/XL/D	12	120	12000	1250	1000	6500	82	5	0.6	135	★	T3 Spiral®, Carded Single Pack, Daylight	153	1,7,8,9,10
	20	4.5	72880	FLE20HT2/2/XL/CD	3	120	12000	1250	1000	2700	82	5	0.6	120	★	T3 Spiral®, Carded	153	1,7,8,9,10
Med	23	5.1	80889	FLE23HT3/2/XL827	10	120	12000	1600	1280	2700	82	5	0.6	135	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	23	5.1	47445	FLE23HT3/2/XL/CD	12	120	12000	1600	1280	2700	82	5	0.6	135	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
Med	26	5.1	89095	FLE26HT3/2/D/CD	12	120	8000	1600	1280	6500	82	5	0.6	120	★	Carded Single Pack	153	1,7,8,9,10
	26	5.2	15836	FLE26HT3/2/B27	10	120	8000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	26	5.2	15517	FLE26HT3/2/SW/CD	12	120	8000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	26	5.2	71765	FLE26HT3/2/6STP	6	120	6000	1660	1325	5000	82	5	0.6	145	★	T3 Spiral®, Tray Pack	153	1,7,8,9,10

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Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Volts	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min. Start. Temp (°F)	Power Factor	THD	ENERGY STAR® Screw-Ins	Additional Information	Caution Notice	Footnotes
Self-Ballasted Lamps (continued)																		
Spiral® (continued)																		
Med	26	5.1	85397	FLE26HT3/2/D/2PK	3	120	8000	1600	1315	6500	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	26	5.2	15519	FLE26HT3/2/SW/2P	3	120	8000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	26	5.2	21845	FLE26HT3/2/10PK	10	120	8000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Consumer 10 Pack	153	1,7,8,9,10
	26	5.2	25195	FLE26HT3/2/841	10	120	8000	1700	1365	4100	82	5	0.6	120	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	26	5.2	80890	FLE26HT3/2/XL827	10	120	12000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Boxed	153	1,7,8,9,10
	26	5.8	89621	FLE26HT3/2/DV	10	120	10000	1700	1360	2700	82	5	0.6	120	★	Dimming, Boxed	152	1,7,8,9,14
	26	5.8	89624	FLE26HT3/2/DV/CD	12	120	10000	1700	1360	2700	82	5	0.6	120	★	Dimming, Carded Single Pack	152	1,7,8,9,14
	26	5.1	47446	FLE26HT3/2/XL/CD	12	120	12000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Carded Single Pack	153	1,7,8,9,10
	26	5.1	49685	FLE26HT3/2/XL2PK	3	120	12000	1700	1365	2700	82	5	0.6	120	★	T3 Spiral®, Carded Twin Pack	153	1,7,8,9,10
	26	4.8	72881	FLE26HT2/2/XL/CD	3	120	12000	1650	1320	2700	82	5	0.6	120	★	T2 Spiral®, Carded	153	1,7,8,9,10
Med	29	6.3	81514	FLE29HLX/2XL/827	10	120	12000	2200	1760	2700	82	5	0.6	170	★	T4 Spiral®, Boxed	153	1,7,8,9,10
	29	6.3	47459	FLE29HLX/2/XL/CD	12	120	12000	2200	1760	2700	82	5	0.6	170	★	T4 Spiral®, Carded Single Pack	153	1,7,8,9,10
	12 23 29	6.3	81515	FLE29HLX/2D3/827	10	120	10000	600/ 1600/ 2150	480/ 1280/ 1740	2700	82	5	0.6	170	★	T3 Spiral®, Boxed, 3-Way	155	1,7,8,9,10
	12 23 29	6.3	47448	FLE29HLX/2/D3/CD	12	120	10000	600/ 1600/ 2150/	480/ 1280/ 1740	2700	82	5	0.6	170	★	T3 Spiral®, Carded Single Pack, 3-Way	155	1,7,8,9,10
	42	6.4	80891	FLE42HLX/2/XL827	10	120	12000	2700	2160	2700	82	5	0.6	170	★	T4 Spiral®, Boxed	153	1,7,8,9,10
	42	6.9	47452	FLE42HLX/2/XL/CD	12	120	12000	2700	2160	2700	82	5	0.6	170	★	T4 Spiral®, Carded Single Pack	153	1,7,8,9,10
Biax®																		
Med	12	4.4	20702	FLE12TT3/827	10		15000	600	480	2700	82	5	0.6	120	★	T3 Triple Biax®, Boxed	153	1,7,8,9,10,12
	14	5.9	49884	FLE14TBX/2/SW/CD	12	120	8000	850	685	2700	82	5	0.6	120	★	Triple Biax®, Carded Single Pack	153	1,7,8,9,10
	15	4.9	12004	FLE15TT3/827	10	120	15000	900	720	2700	82	5	0.6	145		T3 Triple Biax®, Boxed	153	1,7,8,9, 10,12
	20	5.5	12008	FLE20TT3/827	10	120	15000	1200	960	2700	82	5	0.6	130	★	T3 Triple Biax®, Boxed	153	1,7,8,9,10,12
	20	6.9	49885	FLE20TBX/2/SW/CD	12	120	8000	1200	965	2700	82	5	0.6	120	★	Triple Biax®, Carded Single Pack	153	1,7,8,9,10
	24	5.6	23669	FLE24QBX/A/827	6	120	18000	1520	1290	2700	82	-9	0.6	170	★	Boxed	153	1,7,8,9,10,12
	27	6.9	49887	FLE27QBX/2/SW/CD	12	120	6000	1700	1365	2700	82	5	0.6	130	★	Quad Biax®, Carded Single Pack	153	1,7,8,9,10
	28	6.3	40351	FLE28QBX/LLCD	3	120	12000	1750	1485	2700	82	-9	0.6	170		Soft White, Quad Biax®, Carded	153	1,7,8,9,10,12
	28	5.9	46270	FLE28QBX/A/827	6	120	12000	1750	1485	2700	82	-9	0.6	170			153	1,7,8,9,10,12
	29	6.3	41457	FLE29QBX/DV/827	6	120	10000	1750	1500	2700	82	-9	0.6	170		Dimming	156	1,7,8,9,12,14
Reflectors																		
Med	11	4.7	80892	FLE11/2/R20XL827	10	120	10000	400	320	2700	82	5	0.6	120	★	Soft White, R20 Glass Reflector, Boxed	157	1,8,9,10,12
	11	4.7	47477	FLE11/2/R20XL/CD	12	120	10000	400	320	2700	82	5	0.6	120	★	Soft White, R20 Glass Reflector, Carded Single Pack	157	1,8,9,10,12
Med	15	5.4	20708	FLE15/2/R30/SWCD	12	120	8000	700	565	2700	82	5	0.6	120	★	Soft White, R30 Glass Reflector, Carded Single Pack	158	1,8,9,10,12
	15	5.5	80893	FLE15/2/R30XL827	10	120	10000	750	600	2700	82	5	0.6	120	★	Soft White, R30 Glass Reflector, Boxed	157	1,8,9,10,12
	15	5.3	47478	FLE15/2/R30XL/CD	12	120	10000	750	600	2700	82	5	0.6	120	★	Soft White, R30 Glass Reflector, Carded Single Pack	157	1,8,9,10,12
	15	5.6	21709	FLE15/2/DV/R30	6	120	6000	700	565	2700	82	5	0.6	170	★	Dimming, Soft White, R30 Glass Reflector, Boxed	165	1,8,9,10,14
	15	5.6	21710	FLE15/2DVR30SWCD	3	120	6000	700	565	2700	82	5	0.6	170	★	Dimming, Soft White, R30 Glass Reflector, Carded Single Pack	165	1,8,9,12,14
	15	5.6	89617	FLE15/2/R30/PINK	10	120	10000	700	560			5	0.5	120		Pink	157	1,8,9,10,12
Med	26	6.5	21738	FLE26/2/R40/SWCD	3	120	6000	1300	1040	2700	82	5	0.6	170	★	Soft White, R40 Glass Reflector, Carded Single Pack	158	1,8,9,10,12
	26	6.5	80894	FLE26/2/R40XL827	6	120	10000	1300	1040	2700	82	5	0.6	120	★	Soft White, R40 Glass Reflector, Boxed	157	1,8,9,10,12
	26	6.5	47479	FLE26/2/R40XL/CD	3	120	10000	1300	1040	2700	82	5	0.6	120	★	Soft White, R40 Glass Reflector, Carded Single Pack	157	1,8,9,10,12

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Compact Fluorescent Lamps

Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Volts	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min. Start. Temp (°F)	Power Factor	THD	ENERGY STAR® Screw-Ins	Additional Information	Caution Notice	Footnotes
Self-Ballasted Lamps (continued)																		
Reflectors (continued)																		
Med	26		21716	FLE26/2/DV/R40	6	120	6000	1200	970	2700	82	5	0.6	170	★	Dimming, Soft White, R40 Glass Reflector, Boxed	165	1,8,9,12,14
	26	6.9	21718	FLE26/2DVR40SWCD	3	120	6000	1200	970	2700	82	5	0.6	170	★	Dimming, Soft White, R40 Glass Reflector, Carded Single Pack	165	1,8,9,12,14
	26	6.6	89618	FLE26/2/R40/PINK	10	120	10000	1400	1120			5	0.5	120		Pink	157	1,8,9,10,12
	26	5.5	21739	FLE26/2/PAR38/CD	3	120	6000	1200	970	2700	82	5	0.6	120	★	Soft White, Par 38 Glass Reflector, Carded Single Pack	164	1,8,9,12,16
	26	5.5	80895	FLE26/2/PAR38/XL	6	120	10000	1300	1040	2700	82	5	0.6	120	★	Soft White, Par 38 Glass Reflector, Boxed, Wet Rated	166	1,8,9,12,16
	26	5.6	47483	FLE26/2PAR38XCD	3	120	10000	1300	1040	2700	82	5	0.6	120	★	Soft White, Par 38 Glass Reflector, Carded Single Pack, Wet Rated	166	1,8,9,12,16
	23	5.3	73265	FLE23/3/PAR38FL	6	120	8000	1000		2700	82	5	0.5	150		Flat Lens PAR38	166	1,8,9,12,16
Genura®																		
Med	23	4.9	25418	EL23/R25/SW	6	120	15000	1100	880	2700	82	32	0.6	130		Genura® Electrodeless Design, Soft White	160	1,8,9,10
	23	4.9	12273	EL23/R25/WW	6	120	15000	1100	880	3000	82	32	0.6	130		Genura® Electrodeless Design, RE 830 Phosphor, Warm White	160	1,8,9,10
Decorative Shapes																		
Cand	5	4.8	16098	FLE5/2/CAC/827	10	120	6000	200	160	2700	82	5	0.6	145		Candle Shape, Candelabra Base, Boxed	157	1,8,10,12
Med	5	4.8	16099	FLE5/2/CAM/827	10	120	6000	200	160	2700	82	5	0.6	145		Candle Shape, Medium Base, Boxed	157	1,8,10,12
Cand	7	5.2	16103	FLE7/2/CAC/827	10	120	6000	370	296	2700	82	5	0.6	130		Candle Shape, Candelabra Base, Boxed	157	1,8,10,12
Med	7	5.2	16104	FLE7/2/CAM/827	10	120	6000	370	296	2700	82	5	0.6	130	★	Candle Shape, Medium Base, Boxed	157	1,8,10,12
Cand	9	5.4	85388	FLE9/2/CAC/SW/CD	12	120	6000	430	344	2700	82	5	0.6	125		Candle Shape, Candelabra Base, Carded Single Pack	157	1,8,10,12
	9	5.4	16105	FLE9/2/CAC/827	10	120	6000	430	344	2700	82	5	0.6	125		Candle Shape, Candelabra Base, Boxed	157	1,8,10,12
Med	9	5.4	47488	FLE9/2/CAM/XL/CD	12	120	10000	430	344	2700	82	5	0.6	125	★	Candle Shape, Medium Base, Carded Single Pack	157	1,8,10,12
	9	5.4	16106	FLE9/2/CAM/827	10	120	6000	430	344	2700	82	5	0.6	125	★	Candle Shape, Medium Base, Boxed	157	1,8,10,12
Med	10	4.2	89622	FLE11/2/A19XL	10	120	10000	500	400	2700	82	5	0.6	130	★	A-Line Shape, Boxed	157	1,8,10,12
Med	11	4.4	47486	FLE11/2/A17XL/CD	12	120	10000	500	400	2700	82	5	0.6	120	★	A-Line Shape, Carded Single Pack	157	1,8,10,12
	11	4.2	89629	FLE11/2/G25XL	10	120	10000	500	400	2700	82	5	0.6	130	★	Globe Shape, Boxed	157	1,8,10,12
	11	4.8	47484	FLE11/2/G25XL/CD	12	120	10000	500	400	2700	82	5	0.5	130	★	Globe Shape, Carded Single Pack	157	1,8,10,12
	11	4.1	89631	FLE11/2/T14XL	10	120	10000	500	400	2700	82	5	0.6		★	Bullet Shape, Boxed		1,8,10,12
	11	96.0	49894	FLE11/2TC14SW/CD	3	120	6000	520	420	2700	82	5	0.6	120	★	Post Light, Carded Single Pack	157	1,8,10,12
	11	96.0	49895	FLE11/2TC14BUGCD	3	120	6000	520	420	2700	82	5	0.6	120	★	Bug Yellow Post Light, Carded Single Pack	157	1,8,10,12
Med	14	5.0	85384	FLE14/2/TC16SWCD	12	120	10000	750	600	2700	82	5	0.5	150	★	Bullet Shape, Carded Single Pack		1,8,10,12
	14	5.0	47464	FLE14/2/TC16/BUG	12	120	10000	750		2700	82		0.5	150	★	Bug Yellow Post Light, Carded Single Pack	157	1,8,10,12
Med	15	4.6	89632	FLE15/2/A19XL	10	120	10000	825	660	2700	82	5	0.6	120	★	A-Line Shape, Boxed		1,8,10,12
	15	4.8	47487	FLE15/2/A21XL/CD	12	120	10000	825	660	2700	82	5	0.6	120	★	A-Line Shape, Carded Single Pack	157	1,8,10,12
	15	4.6	89633	FLE15/2/G25XL	10	120	10000	825	660	2700	82	5	0.5	150	★	Globe Shape, Boxed		1,8,10,12
	15	4.8	47485	FLE15/2/G25XL/CD	12	120	10000	825	660	2700	82	5	0.6	120	★	Globe Shape, Carded Single Pack	157	1,8,10,12
	15	4.7	21733	FLE15/2/A21/SWCD	12	120	8000	850	689	2700	82	5	0.6	120	★	A-Line Shape, Carded Single Pack	157	1,8,10,12
Med	20	5.4	89635	FLE20/2/T19XL	10	120	10000	1100	880	2700	82	5	0.6	130	★	Bullet Shape, Boxed		1,8,10,12
	20	5.7	89634	FLE20/2/A19XL	10	120	10000	1100	880	2700	82	5	0.6	130	★	A-Line Shape, Boxed	158	1,8,10,12
Med	26	6.0	89636	FLE26/2/T21XL	10	120	10000	1350	1080	2700	82	5	0.6	130	★	Bullet Shape, Boxed	157	1,8,10,12

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Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Volts	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min. Start. Temp (°F)	Power Factor	THD	ENERGY STAR® Screw-Ins	Additional Information	Caution Notice	Footnotes
Lamps and Adapters																		
Circlite®																		
Med	21	3.4	11307	FCA21/CD	4	120	10000	1200	1020	3000	82	50	0.5	20		Circlite® Carded, FCBT9/KB Replacement Lamp	163	1,7,10,11
Specialty																		
covRguard® Spiral®																		
Med	15	4.8	71989	FLE15HT3/2/827/CVG	10	120	8000	900	765	2700	82	5	0.6	120		Shatter Resistant Coating		
	20	4.7	71988	FLE20HT3/2/827/CVG	10	120	8000	1300	1105	2700	82	5	0.6	120		Shatter Resistant Coating		
	26	5.2	71990	FLE26HT3/2/827/CVG	10	120	8000	1620	1375	2700	82	5	0.6	120		Shatter Resistant Coating		
	42	6.4	71991	FLE42HLX/2/XL827/CVG	10	120	8000	2525	2150	2700	82	5	0.6	120		Shatter Resistant Coating		
Blacklight																		
G23	9	5.7	42935	F9BX/BL	10	59	5000			Blacklight						Blacklight UVA Source 2-Pin Internal Starter. Lamp emits UV irradiation which may cause eye/skin irritation. RGI.	104	
	11	8.5	42936	F11BX/BL	10	91	5000			Blacklight						Blacklight UVA Source 2-Pin Internal Starter. Lamp emits UV irradiation which may cause eye/skin irritation. RGI.	104	
GX23	13	6.7	42937	F13BX/BL	10	59	5000			Blacklight						Blacklight UVA Source 2-Pin Internal Starter. Lamp emits UV irradiation which may cause eye/skin irritation. RGI.	104	
G24d-3	26	6.7	42938	F26DBX/BL	10	105	5000			Blacklight						Blacklight UVA Source 4-Pin Electronic. Lamp emits UV irradiation which may cause eye/skin irritation. RGI.	104	
2G11	24	12.5	42939	F24BX/BL	10	75	5000			Blacklight						Blacklight UVA Source 4-Pin Electronic. Lamp emits UV irradiation which may cause eye/skin irritation. RGI.	104	
	36	16.3	42940	F36BX/BL	10	90	5000			Blacklight						Blacklight UVA Source 4-Pin Electronic. Lamp emits UV irradiation which may cause eye/skin irritation. RGI.	104	
	55	20.7	42941	F55BX/BL	10	101	5000			Blacklight						Blacklight UVA Source 4-Pin Electronic. Lamp emits UV irradiation which may cause eye/skin irritation. RGI.	104	
Blacklight Blue																		
2G11	36	16.3	88833	F36BX/BLB	10	90	5000			Blacklight						Blacklight, UVA Source 4-Pin Electronic, Internal Blue filter. Lamp emits UV irradiation which may cause eye/skin irritation. RGI.	104	
Germicidal																		
G23	5	3.4	40695	GBX5/UVC	10		8000									Clear, Preheat, 2-Pin Internal Starter, UVC Source. WARNING: Risk group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		

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Compact Fluorescent Lamps

Base	Watts	Nominal Length (in)	Order Code	Description	Case Qty	Volts	Rated Life (hrs)	Initial Lumens	Mean Lumens	Color Temp K	CRI	Min. Start. Temp (°F)	Power Factor	THD	ENERGY STAR® Screw-Ins	Additional Information	Caution Notice	Footnotes
Germicidal (continued)																		
G23	9	5.7	40696	GBX9/UVC	10		8000									Clear, Preheat, 2-Pin Internal Starter, UVC Source. WARNING: Risk group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		
	11	8.8	40700	GBX11/UVC	10		8000									Clear, Preheat, 2-Pin Internal Starter, UVC Source. WARNING: Risk group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		
GX23	13	6.7	40703	GBX13/UVC	10		8000									Clear, Preheat, 2-Pin Internal Starter, UVC Source. WARNING: Risk group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		
2G11	18	8.8	40704	GBX18/UVC	40		8000									Clear, 4-Pin UVC Source. WARNING: Risk group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		
	36	16.3	40705	GBX36/UVC	40		8000									Clear, 4-Pin UVC Source. WARNING: Risk group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		
	55	20.7	40706	GBX55/UVC	25		8000									Clear, 4-Pin UVC Source. WARNING: Risk group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		
2G11	60	16.3	72301	GBX60/UVC	25		8000									Clear, 4-Pin UVC Source. WARNING: Risk group 3 (High Risk): UV emitted from this lamp. Avoid exposure of eyes and skin to unshielded lamp. Skin or eye injury will result. Life rating is based on UV maintenance curve and is measured at 80% of initial (100 hr) UVC output.		
Film and TV Lighting HLBX 4-Pin																		
2G11	55	20.7	41869	FSSBX/STUDIOBX32	40		10000	4100		3200	86					High color rendering. Ideal for TV studios, live broadcasts. Color tuned to match tungsten and daylight light sources.		
	55	20.7	41873	FSSBX/STUDIOBX56	40		10000	4100		5600	89					High color rendering. Ideal for TV studios, live broadcasts. Color tuned to match tungsten and daylight light sources.		
	55	20.7	41903	FSSBX/CINPLUS/32	40		2000	2400		3200	92					High color rendering. Soft light used in film applications. GEL free light source. Matches the color spectrum of film. LB and CC +/-5.		
	55	20.7	41911	FSSBX/CINPLUS/55	40		2000	2400		5500	95					High color rendering. Soft light used in film applications. GEL free light source. Matches the color spectrum of film. LB and CC +/-5.		

Footnotes

1. Fluorescent lamp lumens decline during life.
2. Based on 60Hz reference circuit.
3. 

10-watt, 16-watt and 28-watt 2D® lamps may be operated in any position. 21-watt, 38-watt, 39-watt and 55-watt 2D® lamps must be used with the leg marked (a) in the diagram below the bend (b), in order to avoid overheating the end of the cap marked (c).
4. Life ratings for the F18BX preheat lamps are based on operating the lamp at 3 hrs. per start on a preheat type circuit. Operation on rapid start and instant start ballasts is not recommended.
5. Cold cathode resistance is approximately 6.0 Ohms.
6. 4-Pin lamp minimum starting temperature is a function of the ballast. Most ballasts are rated with a minimum starting temperature of 50°F (10°C). Ballasts are also available that provide reliable starting to 0°F (-18°C) and -20°F (-29°C).
7. Most one-piece self-ballasted lamps for incandescent sockets and plug-in lamps with screw-in adapters do not work with clip-on shades.
8. Lumens on one-piece self-ballasted lamp systems are measured base up.
9. Best performance if operated base up and at 77°F (25°C) ambient temperature.
10. Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers. Do not use in wet locations.
11. Adapters rated at 40,000 hours life.
12. Amalgam products experience stable brightness over a wider temperature range and in various operating positions.
13. Life ratings are based on operating the lamp at 3 hrs. per start on a rapid start type ballast. Life rating on a preheat or instant start ballast is 25% lower.
14. Use only on 120V, 60Hz circuits. Do not use on with photocells or timers. Do not use in wet locations.
15. These lamps are only recommended for use with single-lamp ballasts or parallel-wired 2-lamp ballasts.
16. UL Listed for wet locations. Use only on 120V, 60Hz circuits. Do not use on dimming circuits, photocells or timers.
17. Max. bulb wall temperature not to exceed 180°C. Consult GE sales representative for further information.

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes and caution notices found at the end of this section (page 5-15).

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes and caution notices found at the end of this section (page 5-15).

Compact Fluorescent Lamps

Caution Notices

151

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

152

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights or in electronic timers.

153

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

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155

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45 - 30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers

156

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or in totally enclosed recessed fixtures.

157

⚠ CAUTION

Risk of electric shock

- Do not open—no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers.

158

⚠ CAUTION

Risk of electric shock

- Do not open—no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

160

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product may cause interference to radio equipment operating in the frequency range of 2.2 - 2.8 MHz. Avoid placing this product near these devices. To reduce the possibility of radio interference to maritime safety communications, this device should not be installed:
1) On board cargo vessels of more than 300 tons
2) On board cargo vessels carrying more than 12 passengers for hire
3) At any medium frequency public coast station
Further, installation is not recommended on board vessels equipped with medium frequency, single sideband marine radios. If interference occurs, move this product away from the device or plug either into a different outlet. Such interference complaints should be reported to: Application Solutions at General Electric Company, 1975 Noble Road, Cleveland, Ohio 44112, or call toll free (800) 435-4448 from 8:00 am to 6:00 pm EST.
Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, dimmers, or in totally enclosed recessed fixtures.

163

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width or with portable lamps which are provided with lamp shades. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, in totally enclosed recessed fixtures, or with dimmers.

Caution Notices (continued)

164

⚠ CAUTION

Risk of electric shock

- Do not use where directly exposed to water
- Do not open—no user serviceable parts inside
- Use indoors only

Lamp may shatter and cause injury if broken

- Remove and install by grasping only plastic portion of the lamp

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, in totally enclosed recessed fixtures, or with dimmers. Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three times the base width. Use only with portable lamps which are provided with lamp shades.

165

⚠ CAUTION

Risk of electric shock

- Do not open—no user serviceable parts inside
- Do not use where directly exposed to water or outdoors without an enclosed fixture

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells or in totally enclosed recessed fixtures.

166

⚠ CAUTION

Risk of electric shock

- Do not open—no user serviceable parts inside

This product complies with Part 18 of the FCC Rules, but may cause interference to radios, televisions, wireless telephones, and remote controls. Avoid placing this product near these devices. If interference occurs, move the product away from the device or plug either into a different outlet. Do not install this product near maritime safety equipment or other critical navigation or communication equipment operating between 0.45-30 MHz. Not intended for use with emergency exit fixtures or lights, electronic timers, photocells, or with dimmers.

Compact Fluorescent Lamps

Cross-Reference

GE Description	Generic Description	Osram/Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps		
Low Wattage Biax® 2-Pin			
F5BX/SPX27	CFT5W/G23/827	CF5DS/827	PL-S 5W/827
F5BX/SPX41	CFT5W/G23/841	CF0S/841	–
F7BX/SPX27	CFT7W/G23/827	CF7DS/827	PL-S 7W/827
F7BX/SPX35	CFT7W/G23/835	CF7DS/835	PL-S 7W/835
F7BX/SPX41	CFT7W/G23/841	CF7DS/841	PL-S 7W/841
F9BX/SPX27	CFT9W/G23/827	CF9DS/827	PL-S 9W/827
F9BX/SPX35	CFT9W/G23/835	CF9DS/835	PL-S 9W/835
F9BX/SPX41	CFT9W/G23/841	CF9DS/841	PL-S 9W/841
F13BX/SPX27	CFT13W/G23/827	CF13DS/827	PL-S 13W/827
F13BX/SPX30	CFT13W/G23/830	CF13DS/830	PL-S 13W/830
F13BX/SPX35	CFT13W/G23/835	CF13DS/835	PL-S 13W/835
F13BX/SPX41	CFT13W/G23/841	CF13DS/841	PL-S 13W/841
F13BX/SPX50	CFT13W/G23/850	CF13DS/850	PL-S 13W/850
F13BX/E/827	CFT13W/G23/827	–	–
F13BX/E/830	CFT13W/G23/835	–	–
F13BX/E/835	CFT13W/G23/830	–	–
F13BX/E/841	CFT13W/G23/841	–	–
F13BX/E/850	CFT13W/G23/850	–	–
High Lumen Biax®			
F18BX/SPX30	FT18W/2G11/830	FT18DL/830	PL-L 18W/830
F18BX/SPX35	FT18W/2G11/835	FT18DL/835	PL-L 18W/835
F18BX/SPX41	FT18W/2G11/841	FT18DL/841	PL-L 18W/841
F18BX/SPX30/RS	FT18W/2G11/RS/830	FT18DL/830/RS	PL-L 18W/830
F18BX/SPX35/RS	FT18W/2G11/RS/835	FT18DL/835/RS	PL-L 18W/835
F18BX/SPX41/RS	FT18W/2G11/RS/841	FT18DL/841/RS	PL-L 18W/841
F18BX/SPX65/RS	FT18W/2G11/RS/865	–	–
F27BX/SPX3/RS	FT24W/2G11/830	FT24DL/830	PL-L 24W/830
F27BX/SPX35/RS	FT24W/2G11/835	FT24DL/835	PL-L 24W/835
F27BX/SPX41/RS	FT24W/2G11/841	FT24DL/841	PL-L 24W/841
F39BX/SPX3/RS	FT36W/2G11/830	FT36DL/830	PL-L 36W/830
F39BX/SPX3/RS	FT36W/2G11/835	FT36DL/835	PL-L 36W/835
F39BX/SPX3/RS	FT36W/2G11/841	FT36DL/841	PL-L 36W/841
F40/30BX/SPX30	FT40W/2G11/RS/830	FT40DL/830/RS	PL-L 40W/830/RS/IS
F40/30BX/SPX35	FT40W/2G11/RS/835	FT40DL/835/RS	PL-L 40W/835/RS/IS
F40/30BX/SPX41	FT40W/2G11/RS/841	FT40DL/841/RS	PL-L 40W/841/RS/IS
F40/30BX/SPX50/RS	F40/30BX/SPX50/RS	–	–
F50/30BX/SPX30/RS	FT50W/2G11/RS/830	–	PL-L 50W/830/RS
F50/30BX/SPX35/RS	FT50W/2G11/RS/835	–	PL-L 50W/835/RS
F50/30BX/SPX41/RS	FT50W/2G11/RS/841	–	PL-L 50W/841/RS
F55BX/830	FT55W/2G11/RS/830	FT55DL/830	–
F55BX/835	FT55W/2G11/RS/835	FT55DL/835	–
F55BX/841	FT55W/2G11/RS/841	FT55DL/841	–
Double Biax® 2-Pin			
F9DBX23T4/SPX27	CFQ9W/G23/827	CF9DD/827	–
F9DBX23T4/841	CFQ9W/G23/841	–	–
F13DBX23T4/SPX27	CFQ13W/GX23/827	CF13DD/827	PL-C 13W/827/USA
F13DBX23T4/SPX30	CFQ13W/GX23/830	CF13DD/830	PL-C 13W/830/USA
F13DBX23T4/SPX35	CFQ13W/GX23/835	CF13DD/835	PL-C 13W/835/USA
F13DBX23T4/SPX41	CFQ13W/GX23/841	CF13DD/841	PL-C 13W/841/USA
F13DBXT4/SPX27	CFQ13W/G24d/827	–	PL-C 13W/827
F13DBXT4/SPX30	CFQ13W/G24d/830	–	PL-C 13W/830
F13DBXT4/SPX35	CFQ13W/G24d/835	–	–
F13DBXT4/SPX41	CFQ13W/G24d/841	–	–
F18DBXT4/SPX27	CFQ18W/G24d/827	CF18DD/827	PL-C 18W/827
F18DBXT4/SPX30	CFQ18W/G24d/830	CF18DD/830	PL-C 18W/830
F18DBXT4/SPX35	CFQ18W/G24d/835	CF18DD/835	PL-C 18W/835
F18DBXT4/SPX41	CFQ18W/G24d/841	CF18DD/841	PL-C 18W/841
F26DBXT4/SPX27	CFQ26W/G24d/827	CF26DD/827	PL-C 26W/827
F26DBXT4/SPX30	CFQ26W/G24d/830	CF26DD/830	PL-C 26W/830
F26DBXT4/SPX35	CFQ26W/G24d/835	CF26DD/835	PL-C 26W/835
F26DBXT4/SPX41	CFQ26W/G24d/841	CF26DD/841	PL-C 26W/841
F26DBX/E/827	CFQ26W/G24d/827	–	–

GE Description	Generic Description	Osram/Sylvania Description	Philips Description
Order This GE Lamp	If you currently use these lamps		
Double Biax® 2-Pin (continued)			
F26DBX/E/830	CFQ26W/G24d/830	–	–
F26DBX/E/835	CFQ26W/G24d/835	–	–
F26DBX/E/841	CFQ26W/G24d/841	–	–
Double Biax® 4-Pin			
F13DBX/SPX27/4P	CFQ13W/G24q/827	CF13DD/E/827	PL-C 13W/827/4P
F13DBX/SPX30/4P	CFQ13W/G24q/830	CF13DD/E/830	PL-C 13W/830/4P
F13DBX/SPX35/4P	CFQ13W/G24q/835	CF13DD/E/835	PL-C 13W/835/4P
F13DBX/SPX41/4P	CFQ13W/G24q/841	CF13DD/E/841	PL-C 13W/841/4P
F18DBX/SPX27/4P	CFQ18W/G24q/827	CF18DD/E/827	PL-C 18W/827/4P
F18DBX/SPX30/4P	CFQ18W/G24q/830	CF18DD/E/830	PL-C 18W/830/4P
F18DBX/SPX35/4P	CFQ18W/G24q/835	CF18DD/E/835	PL-C 18W/835/4P
F18DBX/SPX41/4P	CFQ18W/G24q/841	CF18DD/E/841	PL-C 18W/841/4P
F26DBX/SPX27/4P	CFQ26W/G24q/827	CF26DD/E/827	PL-C 26W/827/4P
F26DBX/SPX30/4P	CFQ26W/G24q/830	CF26DD/E/830	PL-C 26W/830/4P
F26DBX/SPX35/4P	CFQ26W/G24q/835	CF26DD/E/835	PL-C 26W/835/4P
F26DBX/SPX41/4P	CFQ26W/G24q/841	CF26DD/E/841	PL-C 26W/841/4P
Triple Biax® 4-Pin			
F13TBX/SPX27/A/4P	CFTR13W/GX24q/827	CF13DT/E/827	–
F13TBX/SPX27/A/4P	CFTR13W/GX24q/830	CF13DT/E/830	–
F13TBX/SPX27/A/4P	CFTR13W/GX24q/835	CF13DT/E/835	–
F13TBX/SPX27/A/4P	CFTR13W/GX24q/841	CF13DT/E/841	–
F18TBX/SPX27/A/4P	CFTR18W/GX24q/827	CF18DT/E/IN/827	PL-T 18W/827/4P
F18TBX/SPX30/A/4P	CFTR18W/GX24q/830	CF18DT/E/IN/830	PL-T 18W/830/4P
F18TBX/SPX35/A/4P	CFTR18W/GX24q/835	CF18DT/E/IN/835	PL-T 18W/835/4P
F18TBX/SPX41/A/4P	CFTR18W/GX24q/841	CF18DT/E/IN/841	PL-T 18W/841/4P
F26TBX/SPX27/A/4P	CFTR26W/GX24q/827	CF26DT/E/IN/827	PL-T 26W/827/4P
F26TBX/SPX30/A/4P	CFTR26W/GX24q/830	CF26DT/E/IN/830	PL-T 26W/830/4P
F26TBX/SPX35/A/4P	CFTR26W/GX24q/835	CF26DT/E/IN/835	PL-T 26W/835/4P
F26TBX/SPX41/A/4P	CFTR26W/GX24q/841	CF26DT/E/IN/841	PL-T 26W/841/4P
F32TBX/SPX27/A/4P	CFTR32W/GX24q/827	CF32DT/E/IN/827	PL-T 32W/827/4P
F32TBX/SPX30/A/4P	CFTR32W/GX24q/830	CF32DT/E/IN/830	PL-T 32W/830/4P
F32TBX/SPX35/A/4P	CFTR32W/GX24q/835	CF32DT/E/IN/835	PL-T 32W/835/4P
F32TBX/SPX41/A/4P	CFTR32W/GX24q/841	CF32DT/E/IN/841	PL-T 32W/841/4P
F42TBX/827/A/4P/EOL	CFTR42W/GX24q/827	CF42DT/E/IN/827	PL-T 42W/827/4P
F42TBX/830/A/4P/EOL	CFTR42W/GX24q/830	CF42DT/E/IN/830	PL-T 42W/830/4P
F42TBX/835/A/4P/EOL	CFTR42W/GX24q/835	CF42DT/E/IN/835	PL-T 42W/835/4P
F42TBX/841/A/4P/EOL	CFTR42W/GX24q/841	CF42DT/E/IN/841	PL-T 42W/841/4P
High Output Biax® 4-Pin			
F57QBX/827/A/4P/EOL	CFM57W/GX24q/827	CF57DT/E/IN/827	–
F57QBX/830/A/4P/EOL	CFM57W/GX24q/830	CF57DT/E/IN/830	–
F57QBX/835/A/4P/EOL	CFM57W/GX24q/835	CF57DT/E/IN/835	–
F57QBX/841/A/4P/EOL	CFM57W/GX24q/841	CF57DT/E/IN/841	–
F57QBX/850/A/4P/EOL	CFM57W/GX24q/850	CF57DT/E/IN/850	–
F70QBX/827/A/4P/EOL	CFM70W/GX24q/827	–	–
F70QBX/830/A/4P/EOL	CFM70W/GX24q/830	–	–
F70QBX/835/A/4P/EOL	CFM70W/GX24q/835	–	–
F70QBX/841/A/4P/EOL	CFM70W/GX24q/841	–	–
F70QBX/850/A/4P/EOL	CFM70W/GX24q/850	–	–

GE Enhanced Plug-in Product Conversion

PC	PC Description	New PC	New Description
If you used to order GE product:		Now order GE product:	
37654	F5BX/SPX27/827	97551	F5BX/827/ECO
13575	F5BX/SPX27/CD	97552	F5BX/827/CDECO
37661	F5BX/SPX41/840	97553	F5BX/841/ECO
37846	F7BX/SPX27/827	97554	F7BX/827/ECO
13576	F7BX/SPX27/CD	97555	F7BX/827/CDECO
37659	F7BX/SPX35/835	97556	F7BX/835/ECO
37660	F7BX/SPX41/840	97557	F7BX/841/ECO
37651	F9BX/SPX27/827	97558	F9BX/827/ECO
13577	F9BX/SPX27/CD	97559	F9BX/827/CDECO
37652	F9BX/SPX35/835	97560	F9BX/835/ECO
37653	F9BX/SPX41/840	97561	F9BX/841/ECO
41645	F13BX/E/827	97562	F13BX/E/827/ECO
41646	F13BX/E/830	97563	F13BX/E/830/ECO
41649	F13BX/E/835	97564	F13BX/E/835/ECO
41651	F13BX/E/841	97565	F13BX/E/841/ECO
41652	F13BX/E850	97566	F13BX/E/850/ECO
14583	F13BX/SPX27/CD	97567	F13BX/827/CDECO
41757	F13BX/SPX35 100P	97568	F13BX/835 100P
17048	F13BX/SPX35/835	97569	F13BX/835/ECO
41758	F13BX/SPX41 100P	97570	F13BX/841 100P
20434	F13BX/SPX41/840	97571	F13BX/841/ECO
11671	F13BX/SPX50	97572	F13BX/850/ECO
14650	F13BXSPX27/827	97573	F13BX/827/ECO
17612	F13BXSPX30/830	97574	F13BX/830/ECO
42065	F9DBX23T4/841	97575	F9DBX23/841/ECO
12409	F9DBX23T4SPX27/8	97576	F9DBX23/827/ECO
13578	F13DBX/SPX27/CD	97585	F13DBX/827/CD
18844	F13DBX23T4/SPX27	97586	F13DBX23/827/ECO
10574	F13DBX23T4/SPX30	97587	F13DBX23/830/ECO
18556	F13DBX23T4/SPX35	97588	F13DBX23/835/ECO
20531	F13DBX23T4/SPX41	97589	F13DBX23/841/ECO
18557	F13DBXT4/SPX27	97590	F13DBX/827/ECO
12956	F13DBXT4/SPX30	97591	F13DBX/830/ECO
18559	F13DBXT4/SPX35	97592	F13DBX/835/ECO
20532	F13DBXT4/SPX41	97593	F13DBX/841/ECO
30035	F13DBX/SPX27/4P	97594	F13DBX/827/ECO4P
10580	F13DBX/SPX30/4P	97595	F13DBX/830/ECO4P
30037	F13DBX/SPX35/4P	97596	F13DBX/835/ECO4P
30038	F13DBX/SPX41/4P	97597	F13DBX/841/ECO4P
12860	F18DBXT4/SPX27	97577	F18DBX/827/ECO
12861	F18DBXT4/SPX30	97578	F18DBX/830/ECO
12863	F18DBXT4/SPX35	97579	F18DBX/835/ECO
12864	F18DBXT4/SPX41	97580	F18DBX/841/ECO
12865	F18DBX/SPX27/4P	97598	F18DBX/827/ECO4P
12866	F18DBX/SPX30/4P	97599	F18DBX/830/ECO4P
12869	F18DBX/SPX35/4P	97600	F18DBX/835/ECO4P
12870	F18DBX/SPX41/4P	97601	F18DBX/841/ECO4P
46290	F26DBX/E/827	97602	F26DBX/E/827/ECO
46291	F26DBX/E/830	97603	F26DBX/E/830/ECO
46292	F26DBX/E/835	97604	F26DBX/E/835/ECO
46294	F26DBX/E/841	97605	F26DBX/E/841/ECO
35250	F26DBXT4/SPX27	97606	F26DBX/827/ECO
35237	F26DBXT4/SPX30	97607	F26DBX/830/ECO
35251	F26DBXT4/SPX35	97608	F26DBX/835/ECO
35252	F26DBXT4/SPX41	97609	F26DBX/841/ECO
35247	F26DBXT4SPX27/4P	97610	F26DBX/827/ECO4P
35235	F26DBXT4SPX30/4P	97611	F26DBX/830/ECO4P
35248	F26DBXT4SPX35/4P	97612	F26DBX/835/ECO4P
35236	F26DBXT4SPX41/4P	97613	F26DBX/841/ECO4P
34391	F13TBX/SPX27/A/4	97619	F13TBX/827/A/ECO
34395	F13TBX/SPX30/A/4	97620	F13TBX/830/A/ECO
34400	F13TBX/SPX35/A/4	97621	F13TBX/835/A/ECO
34387	F13TBX/SPX41/A/4	97622	F13TBX/841/A/ECO

PC	PC Description	New PC	New Description
If you used to order GE product:		Now order GE product:	
47696	F13TBX827/4P/EOL	97623	F13TBX827/4P/ECO
34392	F18TBX/SPX27/A/4	97624	F18TBX/827/A/ECO
34396	F18TBX/SPX30/A/4	97625	F18TBX/830/A/ECO
34405	F18TBX/SPX35/A/4	97626	F18TBX/835/A/ECO
34385	F18TBX/SPX41/A/4	97627	F18TBX/841/A/ECO
48869	F18TBX827/4P/EOL	97628	F18TBX827/4P/ECO
34393	F26TBX/SPX27/A/4	97614	F26TBX/827/A/ECO
34397	F26TBX/SPX30/A/4	97615	F26TBX/830/A/ECO
34406	F26TBX/SPX35/A/4	97616	F26TBX/835/A/ECO
34381	F26TBX/SPX41/A/4	97617	F26TBX/841/A/ECO
48870	F26TBX827/4P/EOL	97618	F26TBX827/4P/ECO
39377	F32TBX/SPX27A/4P	97629	F32TBX/827/A/ECO
39378	F32TBX/SPX30A/4P	97630	F32TBX/830/A/ECO
39379	F32TBX/SPX35A/4P	97631	F32TBX/835/A/ECO
39380	F32TBX/SPX41A/4P	97632	F32TBX/841/A/ECO
46312	F42TBX827A4P/EOL	97633	F42TBX/827/A/ECO
46313	F42TBX830A4P/EOL	97634	F42TBX/830/A/ECO
46314	F42TBX835A4P/EOL	97635	F42TBX/835/A/ECO
46315	F42TBX841A4P/EOL	97636	F42TBX/841/A/ECO
48861	F57QBX/827/A/4P/EOL	48861	F57QBX/827/A/ECO
48862	F57QBX/830/A/4P/EOL	48862	F57QBX/830/A/ECO
48863	F57QBX/835/A/4P/EOL	48863	F57QBX/835/A/ECO
48864	F57QBX/841/A/4P/EOL	48864	F57QBX/841/A/ECO
93404	F57QBX/850/A/4P/EOL	93404	F57QBX/850/A/ECO
48865	F70QBX/827/A/4P/EOL	48865	F70QBX/827/A/ECO
48866	F70QBX/830/A/4P/EOL	48866	F70QBX/830/A/ECO
48867	F70QBX/835/A/4P/EOL	48867	F70QBX/835/A/ECO
48868	F70QBX/841/A/4P/EOL	48868	F70QBX/841/A/ECO
93406	F70QBX/850/A/4P/EOL	93406	F70QBX/850/A/ECO

Ballast

Ballast

Introduction

Ecomagination℠ is GE's commitment to create products that help our customers improve their environmental and operating performance. GE's UltraStart® T5 and T8 programmed start and GE UltraMax® Instant Start ballasts are among the highest energy-efficient ballasts available and contribute to significant reductions in energy consumption and the curbing of greenhouse gas emissions.

RoHS compliant:

European Directive (2002/95EC on the Restriction of Hazardous Substances) states that (beyond certain limited exemptions) electrical and electronic products shall not contain lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls (PBBs), or polybrominated diphenyl ethers (PBDEs). GE's electronic ballasts use lead-free solder and other environmentally preferable materials that meet the RoHS directive. Although not required in the U.S., RoHS-compliant ballasts show GE's commitment to helping our customers meet their disposal needs now, and in the future. GE encourages customer awareness on the importance of reducing hazardous materials and getting ahead of complying with environmental trends. Look for the RoHS-compliant mark on GE ballasts.

UltraMax® Electronic Ballast

A family of high-efficiency GE T8 instant-start electronic linear fluorescent ballasts designed to optimize GE's T8 Ultra lamps for optimal system energy savings. UltraMax® ballasts have a lamp-friendly low-lamp-current crest factor and virtually "read" and adapt to incoming voltage from 108V to 305V. Other features include UL Type CC Anti-Arc Rating and anti-striation control to eliminate lamp striations and spiraling. All UltraMax® ballasts exceed 90% efficiency and the NEMA Premium® ballast program minimum efficiency requirements.

UltraStart® Electronic Ballast

UltraStart® ballasts are a family of high-efficiency GE Program Start (see page 36) electronic linear fluorescent ballasts designed to optimize GE's T8 and T5 Ultra lamps in frequently switched applications. Instant Start ballasts provide approximately 10,000 starts before 50% of lamp failure. UltraStart® provides greater than 100,000 starts. UltraStart® have the equivalent energy savings and convenience of instant start ballasts but with the long lamp life of a programmed start ballast.

UltraStart® T8 L, N and H ballasts exceed 90% efficiency and the NEMA Premium® ballast program minimum efficiency requirements.

ProLine® Electronic Ballast

Offered in dedicated or multivolt (120-277V), these high-performance T8 instant start ballasts are long life, less than 10% THD and most models also meet minimum efficiency requirements of the NEMA Premium® ballast program.

UltraMax® T8 Electronic Ballast

Compact Fluorescent Lamp (CFL)

CFLs are single-ended T4 and T5 lamps that are bent to form a compact shape. Screw-in CFLs have an integral ballast with a screw base for easy replacement of incandescent lamps. GE offers multi-voltage, multi-lamp and multi-entry ballasts for a wide range of CFL plug-in lamps. Multivolt ProLine® CFL ballasts are designed for plug-in lamps so that a ballast will survive over the useful life of approximately 3-to-4 lamp lives.

UltraStart® T8 Electronic Ballast

Electromagnetic Ballast (Magnetic Ballast)

Primarily used for T12 lamps. These ballasts operate lamps at a less efficient 60Hz and typically have efficiencies of 70-80%. Most ballasts consist of a core and coil transformer assembly. Today, magnetic ballasts for 4 foot and 8 foot lamps are typically used only for replacement purposes and are restricted by EPACT to be sold, even in replacement applications, starting in 2009.

Multivolt ProLine® CFL Ballast

Sign Ballast (Magnetic Ballast)

Designed to operate T12 HO Lamps at 120 volts in cold and damp conditions in sign cabinets.

Sign Ballast

GE eHID, Electronic High Intensity Discharge Ballast (eHID)

Electronic HID significantly improves the performance of HID lighting. GE's UltraMax® eHID ballast operates pulse start and ceramic metal halide lamps.

GE High Intensity Discharge Ballast (HID)

HID magnetic ballasts consist of robust core and coil designs that meet or exceed minimum ANSI requirements. These ballasts are typically sold as distributor replacement kits which are pre-wired with a capacitor, ignitor (if applicable) and all necessary mounting hardware and instructions. Each wattage is typically offered in quad (MLT-120/208/240/277 volt), 5-tap (ML5-120/208/240/277/480 volt) or 480 volt (48T) options.

HID Electromagnetic Ballast Kit

UltraMax® eHID Ballast

Ballast

Std Pack Order Code	Description	Application	Pallet Pack	DIY Pack	Std Pack Units Per Carton
T8 Fluorescent Ballasts					
T8 Instant Start Ballasts					
UltraMax® Instant-Start Multi-Voltage High-Efficiency					
For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps					
72258	GE132MAX-L/ULTRA	1 – F32T8 120 to 277 "L" .77 BF UltraMax®			10
72259	GE132MAX-N/ULTRA	1 – F32T8 120 to 277 "N" .87 BF UltraMax®		72260	10
49775	GE232MAX-H/ULTRA	2 or 1 – F32T8 120 to 277 "H" 1.15 BF UltraMax®	47548		10
72262	GE232MAX-L/ULTRA	2 or 1 – F32T8 120 to 277 "L" .77 BF UltraMax®	72256		10
72266	GE232MAX-N/ULTRA	2 or 1 – F32T8 120 to 277 "N" .87 BF UltraMax®	72267	72268	10
71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®			10
71714	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.18 BF UltraMax®	71715		10
71717	GE332MAX-L/ULTRA	3 or 2 – F32T8 120 to 277 "L" .77 BF UltraMax®	71718		10
71719	GE332MAX-N/ULTRA	3 or 2 – F32T8 120 to 277 "N" .87 BF UltraMax®	71721	71722	10
71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®			10
71723	GE432MAX-H/ULTRA	4 or 3 – F32T8 120 to 277 "H" 1.18 BF UltraMax®	71724		10
71725	GE432MAX-L/ULTRA	4 or 3 – F32T8 120 to 277 "L" .77 BF UltraMax®	71726		10
71727	GE432MAX-N/ULTRA	4 or 3 – F32T8 120 to 277 "N" .87 BF UltraMax®	71729	71730	10
71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®			10
71731	GE632MAX-H90-V60	6 or 5 – F32T8 120 to 277 "H" BF UltraMax® 0-10V 100-60% continuous dim	71732		10
71497	GE632MAX-H90-S60	6 or 5 – F32T8 120 to 277 "H" BF UltraMax® 100/60% step dim	71502		10
For 46 – 59W 4 ft – 8 ft Slimline Lamps					
49766	GE159MAX-N/ULTRA	1 – F96T8 120 to 277 "N" .87 BF UltraMax®			10
49767	GE259MAX-N/ULTRA	2 or 1 – F96T8 120 to 277 "N" .87 BF UltraMax®		23954	10
ProLine® T8 Multivolt 120V – 277V					
For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps					
72269	GE-132-MV-N	1 – F32T8 120 to 277 "N" .87 BF MV ProLine®	72270		10
30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.18 BF MV ProLine®	30275		10
72273	GE-232-MV-L	2 or 1 – F32T8 120 to 277 "L".77 BF MV ProLine®	72274		10
72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF MV ProLine®	72276	72277	10
30199	GE-332-MV-H	3 or 2 – F32T8 120 to 277 "H" 1.15 BF MV ProLine®	30296		10
30255	GE-332-MV-L	3 or 2 – F32T8 120 to 277 "L" .77 BF MV ProLine®	30309		10
30192	GE-332-MV-N	3 or 2 – F32T8 120 to 277 "N" .87 BF MV ProLine®	30270	97710	10
30219	GE-432-MV-H	4 or 3 – F32T8 120 to 277 "H" 1.15 BF MV ProLine®	30303		10
30262	GE-432-MV-L	4 or 3 – F32T8 120 to 277 "L" .77 BF MV ProLine®	30310		10
30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF MV ProLine®	30271	97711	10
For 46 – 59W 4 ft – 8 ft Slimline Lamps					
30195	GE-159-MV-N	1 – F96T8 120 to 277 "N" .87 BF MV ProLine®	30274		10
30194	GE-259-MV-N	2 or 1 – F96T8 120 to 277 "N" .87 BF MV ProLine®	30272	97712	10
ProLine® T8 Multivolt High Output 120V – 277V					
For 44 – 86W 4 ft – 8 ft HO Lamps					
30176	GE-286-HO-MV-N	2 or 1 – F96T8HO I5 120 to 277 "N" .87 BF	30187		10
ProLine® T8 Instant-Start High-Performance					
For F17 (2 ft), F25 (3 ft), F32 (4 ft), F40 (5 ft) Lamps					
23680	GE-132-120-N	1 – F32T8 120V "N" .87 BF ProLine®	24161		10
23681	GE-132-277-N	1 – F32T8 277V "N" .87 BF ProLine®	24162		10
23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®	24163		10
23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®	24164		10
23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®	24165		10
23674	GE-332-277-N	3 or 2 – F32T8 277V "N" .87 BF ProLine®	24166		10
23675	GE-432-120-N	4 or 3 – F32T8 120V "N" .87 BF ProLine®	24167		10
23676	GE-432-277-N	4 or 3 – F32T8 277V "N" .87 BF ProLine®	24168		10
For 46 – 59W 4 ft – 8 ft Slimline Lamps					
23677	GE-259-120-N	2 or 1 – F96T8 120V Normal Light .87 BF ProLine®	24169		10
23678	GE-259-277-N	2 or 1 – F96T8 277V "N" .87 BF ProLine®	24170		10
Residential Grade ProLine® T8 120V					
For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps					
97782	GE232-120-RES	2 or 1 – F32T8 120V "N" .87 BF Residential ProLine®		71037	10
97783	GE432-120-RES	4 or 3 – F32T8 120V "N" .87 BF Residential ProLine®		71038	10
Electromagnetic T8 Ballasts					
For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps					
87125	GEM232T8RS120	2 – F32T8 RS 120V Magnetic Ballast			10
87130	GEM232T8RS277	2 – F32T8 RS 277V Magnetic Ballast			10
T8 Programmed Start Ballasts					
UltraStart® T8 Programmed Start					
For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps					
29621	GE-232-120-PS-N	2 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®	29630		10
29622	GE-232-277-PS-N	2 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®	29632		10
96714	GE232-MVPS-N	2 or 1 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®	96717		10
96720	GE232-MVPS-L	2 or 1 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®			10
29675	GE-232-MVPS-H	2 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®	29651		10
29671	GE-232-MVPS-XL	2 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD	29665		10
29623	GE-332-120-PS-N	3 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®	29633		10
29624	GE-332-277-PS-N	3 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®	29634		10

Std Pack Order Code	Description	Application	Pallet Pack	DIY Pack	Std Pack Units Per Carton
T8 Fluorescent Ballasts (continued)					
T8 Programmed Start Ballasts (continued)					
UltraStart® T8 Programmed Start (continued)					
For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps					
96721	GE332-MVPS-L	3 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®			10
29672	GE-332-MVPS-XL	3 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD	29666		10
29625	GE-432-120-PS-N	4 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®	29635		10
96716	GE432-MVPS-N	4 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®	96719		10
71832	GE432-MVPS-L	4 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®			10
29678	GE-432-MVPS-H	4 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®	29657		8
T8 Dimming					
For F17 (2 ft), F25 (3 ft), F32 (4 ft) Lamps					
80353	B132R120V5	1 – F32T8 DIM 100 to 5% RS 120			10
80355	B232SR120V5	2 – F32T8 DIM 100 to 5% RS 120			10
80362	B232SR277S50	2 – F32T8 Switch 100/50% RS 277			10
80356	B232SR277V5	2 – F32T8 DIM 100 to 5% RS 277			10
80357	B332SR120V5	3 – F32T8 DIM 100 to 5% RS 120			10
80358	B332SR277V5	3 – F32T8 DIM 100 to 5% RS 277			10

2008 T8 Ballast Enhancement New Product Code Cross-Reference

Prod Code				
Existing	New	Description (Same)	Application	Units Per Carton
UltraMax® Instant-Start Multi-Voltage High-Efficiency				
49706	72258	GE132MAX-L/ULTRA	1- F32T8 120 to 277 "L" .77 BF UltraMax®	10
49771	72259	GE132MAX-N/ULTRA	1- F32T8 120 to 277 "N" .87 BF UltraMax®	10
23939	72260	GE132MAX-N-DIY	1- F32T8 120 to 277 "N" .87 BF UltraMax® DIY Pack	4
49707	72262	GE232MAX-L/ULTRA	2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax®	10
47546	72263	GE232MAX-L-42T	2 or 1- F32T8 120 to 277 "L" .77 BF UltraMax® Pallet Pack	420
71281	72264	GE232MAX-N/AMP	2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® w/ AMP Connectors	10
97656	72265	GE232MAX-N/CTR	2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® w/ JST Connectors	10
49772	72266	GE232MAX-N/ULTRA	2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax®	10
31052	72267	GE232MAX-N-42T	2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® Pallet Pack	420
23940	72268	GE232MAX-N-DIY	2 or 1- F32T8 120 to 277 "N" .87 BF UltraMax® DIY Pack	10
49776	71714	GE332MAX-H/ULTRA	3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax®	10
47549	71715	GE332MAX-H-42T	3 or 2- F32T8 120 to 277 "H" 1.18 BF UltraMax® Pallet Pack	420
49708	71717	GE332MAX-L/ULTRA	3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax®	10
31055	71718	GE332MAX-L-42T	3 or 2- F32T8 120 to 277 "L" .77 BF UltraMax® Pallet Pack	420
97657	71720	GE332MAX-N/CTR	3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax® w/ JST Connectors	10
49773	71719	GE332MAX-N/ULTRA	3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax®	10
31053	71721	GE332MAX-N-42T	3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax® Pallet Pack	420
23941	71722	GE332MAX-N-DIY	3 or 2- F32T8 120 to 277 "N" .87 BF UltraMax® DIY Pack	4
49777	71723	GE432MAX-H/ULTRA	4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax®	10
47550	71724	GE432MAX-H-42T	4 or 3- F32T8 120 to 277 "H" 1.18 BF UltraMax® Pallet Pack	420
49709	71725	GE432MAX-L/ULTRA	4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax®	10
47547	71726	GE432MAX-L-42T	4 or 3- F32T8 120 to 277 "L" .77 BF UltraMax® Pallet Pack	420
97658	71728	GE432MAX-N/CTR	4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® w/ JST Connectors	10
49774	71727	GE432MAX-N/ULTRA	4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax®	10
31054	71729	GE432MAX-N-42T	4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® Pallet Pack	420
23942	71730	GE432MAX-N-DIY	4 or 3- F32T8 120 to 277 "N" .87 BF UltraMax® DIY Pack	4
ProLine® T8 Multivolt 120-277V				
30189	72269	GE-132-MV-N	1- F32T8 120 to 277 "N" .87 BF Multivolt ProLine®	10
30268	72270	GE-132-MV-N-42T	1- F32T8 120 to 277 "N" .87 BF Multivolt ProLine® Pallet Pack	420
30267	72273	GE-232-MV-L	2 or 1- F32T8 120 to 277 "L" .77 BF Multivolt ProLine®	10
30308	72274	GE-232-MV-L-42T	2 or 1- F32T8 120 to 277 "L" .77 BF Multivolt ProLine® Pallet Pack	420
30191	72275	GE-232-MV-N	2 or 1- F32T8 120 to 277 "N" .87 BF Multivolt ProLine®	10
30269	72276	GE-232-MV-N-42T	2 or 1- F32T8 120 to 277 "N" .87 BF Multivolt ProLine® Pallet Pack	420
97709	72277	GE232MV-N-DIY	2 or 1- F32T8 120 to 277 "N" .87 BF Multivolt ProLine® Pallet Pack DIY Pack	4

Ballast

Std Pack Order Code	Description	Application	Pallet Pack	DIY Pack	Std Pack Units Per Carton
T5 Fluorescent Ballasts					
T5 Electronic Programmed Start Ballasts					
T5 High Efficiency Programmed Start					
For F14 (2 ft), F21 (3 ft), F28 (4 ft), F35 (5 ft) HE T5 Lamps					
99653	GE228MVPSH-A	2 or 1 – F14-F28T5HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can	99654		10
99655	GE228MVPS-A	2 or 1 – F14-F35T5HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can	99656		10
47536	B228PUNV-C0G1C	2 – F28T5 PRS UNV 50/60 Hz C Can			10
T5 High Output Programmed Start					
For F24 (2 ft), F39 (3 ft), F54 (4 ft), F80 (5 ft) HO T5 Lamps					
47534	B224PUNV-C0G1C	2 – F24T5HO PRS UNV 50/60 Hz C Can			10
47540	B239PUNV-D0G1C	2 – F39T5HO PRS UNV 50/60 Hz D Can			10
99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can	99652		10
47542	B254PUNV-DGE1C	2 – F54T5HO PRS UNV 50/60 Hz D Can			10
72279	GE254MVPS-D	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS D Can			10
73192	GE454MVPS90-G	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp G Can	73193		8
29726	GE454MVPSN1	4,3,2, or 1 – F54T5HO 120-277V UltraStart® PRS Can	29717		12
72280	GE180MVPS-D	1 – F80T5HO 120 to 277 UltraStart® PRS D Can			10
**T5 lamp lengths are noted to nearest foot and are not exact lengths as noted in feet.*					
T12 Fluorescent Ballasts					
T12 Electronic Ballasts					
ProLine® T12 Multivolt 120V – 277V					
For F20 (2 ft), F30 (3 ft), and F34/F40 (4 ft) T12 Lamps					
24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12		24773	10
97498	GE240RS120	2 – F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12		97499	10
72110	GE140RS120-DIY	1 – F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack		72110	
24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12		24774	10
For T12 4 ft – 8 ft Slimline Lamps					
24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277		24776	10
T12 High Output					
80162	B295SR120HP	2 – F96T12HOES RS 120			6
80163	B295SR277HP	2 – F96T12HOES RS 277			6
72109	GE296HO-MV-N	2 or 1 – F96T12 HO RS 120 to 277 Multivolt ProLine®			
T12 Magnetic Ballasts					
For 2 ft, Circline, Preheat T12 Lamps					
89711	GEM120PH120DIY	1 – F20T12, F15T8, F15I2, F14T8, F18T8, 120V Magnetic Ballast (200H2)		89711	10
89712	GEM120TC120DIY	1 – F20T12, F15T8, F15T12, F14T12, 120V Magnetic Ballast (546BTCP)		89712	4
89720	GEM1FC16T9RS120	2 – FC12T9, FC16T9, FC8T9, FC12T9, 120V Magnetic (726VLHWSTCP)		89720	4
86227	GEM1FC8T9RS120IP	1 – FC8T9, FC6T9 RS 120V Magnetic Ballast (547RSWSTCP)		89722	10
89717	GEM1FC12T9RS120	2 FC12T9 RS 120V Magnetic Ballast (449LRWSTCP)		89717	
80819	GEM220TS120DIY	2- F20T12, F15T8, F15T12, F14T12, 120V Magnetic Ballast (447LRVLHTCP)		80819	4
For F30, F34/F40 (4 ft) T12 Lamps					
89714	GEM140HRS120DIY	1 – F40T12, FA0T12, 120V Magnetic Ballast (412LSLHTCP)		89714	4
89709	GEM140RS120DIY	1 – F40T12, F30T12, F48/25W, 120V Magnetic Ballast (413CTCP)		89709	4
80644	GEM230RS120DIY	2 – F30T12 120V Magnetic Ballast (573LTCP)		80644	4
89710	GEM240HRS120DIY	2 – F40T12, F40T12, 120V Magnetic Ballast (420LTCP)		89710	4
86139	GEM240RS120IP	2 – F40T12 RS 120V Magnetic Ballast (446LSLHTCP)		46958	10
86124	GEM240RS277IP	2 – F40T12 RS 277V Magnetic Ballast (443LSLHTCP)		89713	10
86341	GEM240RS220IP	2 – F40T12, F40T10, 220V Magnetic Ballast (754LTCP)			10
For T12 4 ft – 8 ft Slimline Lamps					
86372	GEM196IS120IP	1 – F96T12 IS 120 Magnetic Ballast (822BRTCP)		86372	6
86381	GEM196IS277IP	1 – F96T12 IS 277 Magnetic Ballast (828BRTCP)			6
86360	GEM296IS120IP	2 – F96T12 IS 120V Magnetic Ballast (806SLHTCP)		46965	6
86379	GEM296IS277IP	2 – F96T12 IS 277V Magnetic Ballast (827SLHTCP)		89715	6
For T12 High Output Lamps					
86164	GEM296HORS120IP	2 – F96T12HO, F96T8HO, F72T12HO RS 120V Magnetic Ballast (480SLHTCP)		89718	4
86171	GEM296HORS277IP	2 – F96T12HO, F96T8HO, RS 277V Magnetic Ballast (487SLHTCP)			4
Fluorescent Accessories					
Starters					
80619	FS-2-C	Starters for 14, 15 & 20 Watt Flu. Lamps			24
80620	FS-4-C	Starters for 30 & 40 Watt Flu. Lamps			24
80621	FS-5-C	Starters for 4, 6 & 8 Watt Flu. Lamps			24
80622	FS-25-C	Starters for 22 & 25 Watt Flu. Lamps			24
80629	FS-12-C	Starters for 32 Watt Circular Flu. Lamps			24
Sockets					
80623	BP-SKT	Socket Set w/Starter for Bi-Pin Flu. Lamps			12
80624	BP	Socket Set for Bi-Pin Flu. Lamps			12
80625	SL-SS	Socket Set for Slimline Flu. Lamps			12
80627	BP-FM	Face Mount Socket Set for Bi-Pin Flu. Lamps			12
80628	BP-LP	Low Profile Socket Set for Bi-Pin Flu. Lamps			12

Std Pack Order Code	Description	Application	Pallet Pack	DIY Pack	Std Pack Units Per Carton
Sign Ballasts					
For T12 High Output Lamps					
72103	GESB-0412-12-IP	T12HO Sign ballast, 4 to 12 ft, 1 to 2 lamps			1
72104	GESB-0620-24-IP	T12HO Sign ballast 6 to 20 ft, 2 to 4 lamps			1
72105	GESB-1224-24-IP	T12HO Sign ballast 12 to 24 ft, 2 to 4 lamps			1
72106	GESB-1240-46-IP	T12HO Sign Ballast 12 to 40 ft, 4 to 6 lamps			1
72107	GESB-2040-24-IP	T12HO Sign Ballast 20 to 40 ft, 4 to 6 lamps			1
72108	GESB-2448-46-IP	T12HO Sign Ballast 24 to 48 ft, 4 to 6 lamps			1
88921	USB-0412-12-IP	4 to 12 ft, 1 to 2 lamps			
88931	USB-0816-14-IP	08 to 16 ft, 1 to 4 lamps			4
88934	USB-1632-24-IP	16 to 32 ft, 2 to 4 lamps			2
88936	USB-1024-14-IP	10 to 24 ft, 1 to 4 lamps			2
88939	USB-2036-46-IP	20 to 36 ft, 4 to 6 lamps			2
88940	USB-2048-46-IP	20 to 48 ft, 4 to 6 lamps			2
88918	USB-0218-16-IP	Max 3, 02 to 18 ft, 1 to 6 lamps			2
88919	USB-1048-16-IP	Max 3, 10 to 48 ft, 1 to 6 lamps			2
88920	USB-1232-16-IP	Max 3, 12 to 32 ft, 1 to 6 lamps			2

Prod Code	Description	Application	Bottom Exit with Studs	Dual Exit/ Bottom and Side	3-Way Mounting	Units Per Carton
Compact Fluorescent Ballasts						
ProLine® CFL Electronic Ballasts						
For 13 – 42W T4 CFL Lamps						
71430	GEC213-MVPS-3W	2 or 1 – CFQ13W/G24q Bottom Exit 120-277V ProLine® PS	71428	71429	71430	10
71434	GEC218-MVPS-3W	2 or 1 – CFQ18W/G24q Bottom Exit 120-277 ProLine® PS	71432	71433	71434	10
71445	GEC226-MVPS-3W	2 – CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS	71443	71444	71445	10
47509	C242UNVSE-IP	2 – 42/36/32/26/24 watt CFLUNV side exit	47506			10
For 40W Biax® CFL Ballasts						
80683	C240PUNVHP-B-IP	2 or 1 – FT40W2G11 PS UNV				10
80680	C240SI120RH-IP	2 – FT40W/2G11 IS 120				10
80681	C240SI277RH-IP	2 – FT40W/2G11 IS 277				10
80690	C340SI120RH-IP	3 – FT40W/2G11 IS 120				10
80691	C340SI277RH-IP	3 – FT40W/2G11 IS 277				10
For 5 – 26W Preheat CFL Lamps						
87533	GEM1CF13PH120	1 – CFT/Q13W/GX23 Preheat 120 (4111H2P)				20
CFL Magnetic Ballasts						
For 5 – 26W Preheat CFL Lamps						
87655	GEM2CF13PH277	2 – CFT/Q13W/GX23 Preheat 277 (4214PBES)				10

Ballast

Order Code	Description	Application	ANSI Lamp Type	Circuit Type	Units Per Carton
HID Electronic Ballasts					
For 20 – 150W Pulse Start HID Lamps					
87490	GEMH20-MLF-120	1 – 20W M156 120V Electronic HID	M156	Electronic	10
87501	GEMH39-MSF-120	1 – 39W M130 120V Electronic HID	M130	Electronic	10
87516	GEMH50-MSF-120	1 – 50W M110 M/C148 120V Electronic HID	M148, M110, C148	Electronic	10
87531	GEMH70-MSF-120	1 – 70W M98 M/C143 120V Electronic HID	M98, M143, M139, C143, C139	Electronic	10
87546	GEMH70-SLJ-MV	1 – 70W M98 M/C143 120V-277V Electronic HID	M139, C139, M98, M143, C143	Electronic	10
87561	GEMH100-SLJ-MV	1 – 100W M90 M/C140 120V-277V Electronic HID	M90, M140, C140	Electronic	10
87576	GEMH150-SLJ-MV	1 – 150W M102 M/C142 120V-277V Electronic HID	M142, M102, C142	Electronic	10
For 250W – 400W Pulse Start HID Lamps					
29377	GE-MH-250-400-MA	1 – 250 to 400W UltraMax® HID Electronic 208-277 50-60Hz	M155, M153, M138, M135, M132, M131, M154	Electronic	1
89646	GEMH250-400M-V50	1 – 250 to 400W UltraMax® HID Dimming 208-277 50-60Hz	M155, M154, M153, M138, M135, M132, M131	Electronic	1
High Intensity Discharge Electromagnetic Ballasts					
Metal Halide					
For 20 – 175W Metal Halide HID Lamps					
86824	GEM50MLTLC3D-5	1 – 50W MH M110 or M148 Quad (120/208/240/277V)	M110	HX-HPF	6
86847	GEM70MLTLC3D-5	1 – 70W MH M98 or M143 Quad (120/208/240/277V)	M98	HX-HPF	6
86839	GEM7048TLC3D-5	1 – 70W MH M98 or M143 480	M98	HX-HPF	6
86675	GEM100MLTLC3D-5	1 – 100W MH M90 or M140 Quad (120/208/240/277V)	M92, M90, M140	HX-HPF	6
86667	GEM10048TLC3D-5	1 – 100W MH M90 or M140 480	M92, M90, 40	HX-HPF	6
86718	GEM150MLTLC3D-5	1 – 150W MH M102 or M142 Quad (120/208/240/277V)	M142, M102	HX-HPF	6
86711	GEM15048TLC3D-5	1 – 150W MH M102 or M142 480	M142, M102, M107	HX-HPF	6
87210	GEM175MLSAC3-5	1 – 175W MH M57 or H39 5-Tap (120/208/240/277/480V)	M57, H39, M109	CWA	6
86741	GEM175MLTAC3-5	1 – 175W MH M57 or H39 Quad (120/208/240/277V)	M57, M107, H39	CWA	6
For 250 – 1500W Metal Halide HID Lamps					
87211	GEM250MLSAC3-5	1 – 250W MH M58 or H37 5-Tap (120/208/240/277/480V)	M58, H37	CWA	6
86765	GEM250MLTAC3-5	1 – 250W MH M58 or H37 Quad (120/208/240/277V)	M58, H37	CWA	6
87212	GEM250MLSAC4-5	1 – 250W MH M58 or H37 5-Tap (120/208/240/277/480V)	M58, H37	CWA	3
72300	GEM400MLSAA4-5	1 – 400W MH M59 or H33 5-Tap (120/208/240/277/480V) Al C&C	M59, H33	CWA	3
72149	GEM400MLTAA4-5	1 – 400W MH M59 or H33 Quad (120/208/240/277V) Al C&C	M59, H33	CWA	3
86803	GEM40048TAC4-5	1 – 400W MH M59 or H33 480	M59, H33	CWA	3
86650	GEM100048TAC5-5	1 – 1000W MH M47 or H36 480	M47, H36	CWA	2
87213	GEM1000MLSAA5-5	1 – 1000W MH M47 or H36 5-Tap (120/208/240/277/480V)	M47, H36	CWA	2
86655	GEM1000MLTAA5-5	1 – 1000W MH M47 or H36 Quad (120/208/240/277V)	M47, H36	CWA	2
86693	GEM15004BTAC5-5	1 – 1500W MH M48 480	M48	CWA	2
86698	GEM1500MLTAC5-5	1 – 1500W MH M48 Quad (120/208/240/277V)	M48	CWA	2
Pulse Start					
For 175 – 1000W Pulse Start Metal Halide HID Lamps					
86885	GEP175MLTAC3-5	1 – 175W PS M137 or M152 Quad (120/208/240/277V)	M153, M137	CWA	6
86876	GEP17548TAC3-5	1 – 175W PS M137 or M152 480	M152, M137	CWA	6
86935	GEP250MLTAC4-5	1 – 250W PS M138 or M153 Quad (120/208/240/277V)	M153, M138	CWA	3
86926	GEP25048TAC4-5	1 – 250W PS M138 or M153 480	M153, M138	CWA	3
86959	GEP320MLTAC4-5	1 – 320W PS M132 or 154 Quad (120/208/240/277V)	M154, M132	CWA	3
86952	GEP32048TAC4-5	1 – 320W PS M132 or M154 480	M154, M132	CWA	3
86968	GEP320TRIAC4-5	1 – 320W PS M132 or M154 TRI-Voltage 120 277 347	M154, M132	CWA	3
86984	GEP350MLTAC4-5	1 – 350W PS M131 Quad (120/208/240/277V)	M131	CWA	3
86999	GEP40048TAC4-5	1 – 400W PS M135 or M155 480	M155, M135	CWA	3
87008	GEP400MLTAC4-5	1 – 400W PS M135 or M155 Quad (120/208/240/277V)	M155, M135	CWA	3
46936	GEP75048TAC5-5	1 – 750W PS M149 480	M149	CWA	2
46934	GEP750MLTAC5-5	1 – 750W PS M149 Quad (120/208/240/277V)	M149	CWA	2
72281	GEP1000MLTAC5-5	1 – 1000W PS M141 Quad (120/208/240/277V)	M141	CWA	2
72282	GEP1000ML5AC5-5	1 – 1000W PS M141 5-Tap (120/208/240/277/480V)	M141	CWA	2
High-Pressure Sodium					
For 50 – 150W High Pressure Sodium HID Lamps					
87152	GES50MLTLC3D-5	1 – 50W HPS S68 Quad (120/208/240/277V)	S68	HX-HPF	6
86587	GES70MLTLC3D-5	1 – 70W HPS S62 Quad (120/208/240/277V)	S62	HX-HPF	6
86456	GES7048TLC3D-5	1 – 70W HPS S62 480V	S62	HX-HPF	6
87074	GES100MLTLC3D-5	1 – 100W HPS S54 Quad (120/208/240/277V)	S54	HX-HPF	6
87068	GES10048TLC3D-5	1 – 100W HPS S54 480V	S54	HX-HPF	6
87094	GES150MLTLC3D-5	1 – 150W HPS S55 Quad (120/208/240/277V)	S55	HX-HPF	6
87087	GES15048TLC3D-5	1 – 150W HPS S55 480V	S55	HX-HPF	6
For 250 – 1000W High Pressure Sodium HID Lamps					
87214	GES250MLSAC4-5	1 – 250W HPS S50 5-Tap (120/208/240/277/480V)	S50	CWA	3
87121	GES250MLTAC4-5	1 – 250W HPS S50 Quad (120/208/240/277V)	S50	CWA	3
87215	GES400MLSAC4-5	1 – 400W HPS S51 5-Tap (120/208/240/277/480V)	S51	CWA	3
87164	GES400MLTAC4-5	1 – 400W HPS S51 Quad (120/208/240/277V)	S51	CWA	3
87198	GES40048TAC4-5	1 – 400W HPS S51 480V in smaller frame	S51	CWA	3
87048	GES10004BTAC5-5	1 – 1000W HPS S52 480V	S52	CWA	2
87218	GES1000ML5AC5-5	1 – 1000W HPS S52 5-Tap (120/208/240/277/480V)	S52	CWA	2
87056	GES1000MLTAC5-5	1 – 1000W HPS S52 Quad (120/208/240/277V)	S52	CWA	2

Order Code	Description	Application	ANSI Lamp Type	Circuit Type	Units Per Carton
High Intensity Discharge Electromagnetic Ballasts (continued)					
HID Lamp Ballast Kits					
71701	GEM175ML5AC3-55	1 – 175W MH M57 or H39 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)	M57 Mogul Base Elliptical Lamp	CWA	1
71702	GEM250ML5AC3-55	1 – 250W MH M58 or H37 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)	M58 Mogul Base Elliptical Lamp	CWA	1
71703	GEM400ML5AC4-55	1 – 400W MH M59 or H33 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)	M59 Mogul Base Elliptical Lamp	CWA	1
71704	GEM1000ML5AC4-55	1 – 1000W MH M47 or H36 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)	M47 Mogul Base Elliptical Lamp	CWA	1
71705	GES100MLTLC3D-55	1 – 100W HPS S54 Quad (120/208/240/277V) Lamp & Ballast Kit (-55)	S54 Medium Base Elliptical Lamp	HX-HPF	1
71706	GES250ML5AC4-55	1 – 250W HPS S50 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)	M50 Mogul Base ED18 Lamp	CWA	1
71707	GES400ML5AC4-55	1 – 400W HPS S51 5-Tap (120/208/240/277/480V) Lamp & Ballast Kit (-55)	S51 Mogul Base ED18 Lamp	CWA	1
Enclosed and Potted Metal Halide					
86576	11210277CTC000C	1 – 70W M85 120/277 Enclosed & Potted	M85	HX-HPF	4
86578	11210506CTC000C	1 – 70W M98 120/277 Enclosed & Potted	M98	HX-HPF	4
86574	11210239CTC000I	1 – 100W M90 120/277 Enclosed & Potted	M90	HX-HPF	4
86563	1110245SCTC000I	1 – 175W M57 120/277 Enclosed & Potted	M57, H39	CWA	2
86564	1110246CTC000C	1 – 250W M58 120/277 Enclosed & Potted	M58, H37	CWA	2
42670	1110-2475C-TC	1 – 400W M59 120/277 Enclosed & Potted F-can	M59, H33	CWA	2
80728	1111-2475CTC000I	1 – 400W M59 120/277 Enclosed & Potted	M59, H33	CWA	4
F-Can and Post Mount High Pressure Sodium					
86605	1233142U000I	1 – 70W S62 120 Reactor-NPF	S62	R-HPF, R-NPF	6
86596	1221023?CTC000I	1 – 70W S62 120/277 E and P F-Can built-in starter	S62	HX-HPF	4
86606	1233154U000I	1 – 150W S55 120 Reactor-NPF	S55	R-NPF	6
High Intensity Discharge Accessories					
Replacement Capacitors					
88980	005-1184-MF	10.0 MFD 400V 90C 2.4 MEG 1.50 oval 2.7 ht			20
88982	005-1185-MF	15.0 MFD 400V 90C 1.6 MEG 1.75 oval 2.7 ht			20
89007	005-1422-MF	48.0 MFD 300V 90C 0.6 MEG 1.75 oval 3.9 ht			20
89077	005-2779-MF	24.0 MFD 480V 90C 1.75 oval 3.9 ht			20
89083	005-3160-MF	24.0 MFD 360V 90C 1.0 MEG 1.75 oval 3.1 ht			20
Replacement Ignitors for Pulse Start Lamps (MH and HPS)					
86864	MH100-3A	Ignitor for MH 30 50 70 100			20
86635	HPS150-3A	Ignitor HPS 150 watts or less except 150W-S56			20
86641	HPS400-3A	Ignitor HPS 200-400 watts & 150W S56			10
Other Accessories					
47621	000-8724	HIDP Adjustable Mounting Bracket Hardware Kit			100
86467	001-2009	Splice Box			10
86468	004-9177	Adjustable Mounting Bracket For 4" HID			50
86624	2BMB1000C	HID Parts E&P Mounting Bracket			50

Ballast

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps						
F13T5	2	120-277	Electronic – Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 – CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	2	120-277	Electronic – Program / Rapid Start	71427	GEC213-MVPS-XX	2 or 1 – CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
F14T12	1	120	Magnetic – Rapid Start	89712	GEM120TC120DIY	1 – F20T12 F15T8 F15T12 F14T12 120V Magnetic Ballast (546BTCP)
F14T5/HE	2	120-277	Electronic – Program / Rapid Start	47536	B228PUNV-C0G1C	2 – F28T5 PRS UNV 50/60 Hz
	2	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	2	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
	2	120-277	Electronic – Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 – CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	2	120-277	Electronic – Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 – CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	47536	B228PUNV-C0G1C	2 – F28T5 PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
F14T5/WM	2	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	2	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
F14T8	1	120	Magnetic – Rapid Start	89711	GEM120PH120DIY	1 – F20T12 F15T8 F1512 120V Magnetic Ballast (200H2)
F15T12	2	120	Magnetic – Rapid Start	80819	GEM220TS120DIY	2 – F20T12 F15T8 F15T12 F14T12 120V Magnetic Ballast (447LRVLHTCP)
	1	120	Magnetic – Rapid Start	89711	GEM120PH120DIY	1 – F20T12 F15T8 F1512 120V Magnetic Ballast (200H2)
	1	120	Magnetic – Rapid Start	89712	GEM120TC120DIY	1 – F20T12 F15T8 F15T12 F14T12 120V Magnetic Ballast (546BTCP)
F15T8	2	120	Magnetic – Rapid Start	80819	GEM220TS120DIY	2- F20T12 F15T8 F15T12 F14T12 120V Magnetic Ballast (447LRVLHTCP)
	1	120	Magnetic – Rapid Start	89711	GEM120PH120DIY	1 – F20T12 F15T8 F1512 120V Magnetic Ballast (200H2)
	1	120	Magnetic – Rapid Start	89712	GEM120TC120DIY	1 – F20T12 F15T8 F15T12 F14T12 120V Magnetic Ballast (546BTCP)
F17T8	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71723	GE432MAX-H/ULTRA	4 or 3 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71725	GE432MAX-L/ULTRA	4 or 3 – F32T8 120 to 277 "L" .77 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71727	GE432MAX-N/ULTRA	4 or 3 – F32T8 120 to 277 "N" .87 BF UltraMax®
	4	120-277	Electronic – Multivolt Instant Start	30219	GE-432-MV-H	4 or 3 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30262	GE-432-MV-L	4 or 3 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	4	120-277	Electronic – Program / Rapid Start	29678	GE-432-MVPS-H	4 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	4	120-277	Electronic – Program / Rapid Start	96716	GE432-MVPS-N	4 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	4	277	Electronic – Standard Instant Start	23676	GE-432-277-N	4 or 3 – F32T8 277V "N" .87 BF ProLine®
	4	277	Electronic – Program / Rapid Start	29627	GE-432-277-PS-N	4 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	4	120	Electronic – Standard Instant Start	23675	GE-432-120-N	4 or 3 – F32T8 120V "N" .87 BF ProLine®
	4	120	Electronic – Program / Rapid Start	29625	GE-432-120-PS-N	4 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	4	120	Electronic – Standard Instant Start	97783	GE432-120-RES	4 or 3 F32T8 120V Normal Light Residential Grade FCC Class B
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71714	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71717	GE332MAX-L/ULTRA	3 or 2 – F32T8 120 to 277 "L" .77 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71719	GE332MAX-N/ULTRA	3 or 2 – F32T8 120 to 277 "N" .87 BF UltraMax®
	3	120-277	Electronic – Multivolt Instant Start	30199	GE-332-MV-H	3 or 2 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30255	GE-332-MV-L	3 or 2 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30192	GE-332-MV-N	3 or 2 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Program / Rapid Start	29676	GE-332-MVPS-H	3 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96721	GE332-MVPS-L	3 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96715	GE332-MVPS-N	3 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	29672	GE-332-MVPS-XL	3 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71723	GE432MAX-H/ULTRA	4 or 3 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71725	GE432MAX-L/ULTRA	4 or 3 – F32T8 120 to 277 "L" .77 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71727	GE432MAX-N/ULTRA	4 or 3 – F32T8 120 to 277 "N" .87 BF UltraMax®
	3	120-277	Electronic – Multivolt Instant Start	30219	GE-432-MV-H	4 or 3 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30262	GE-432-MV-L	4 or 3 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Program / Rapid Start	29678	GE-432-MVPS-H	4 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71720	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71717	GE332MAX-L/ULTRA	3 or 2 – F32T8 120 to 277 "L" .77 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71719	GE332MAX-N/ULTRA	3 or 2 – F32T8 120 to 277 "N" .87 BF UltraMax®
	3	120-277	Electronic – Multivolt Instant Start	30199	GE-332-MV-H	3 or 2 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30255	GE-332-MV-L	3 or 2 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30192	GE-332-MV-N	3 or 2 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Program / Rapid Start	29676	GE-332-MVPS-H	3 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96721	GE332-MVPS-L	3 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96715	GE332-MVPS-N	3 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	29672	GE-332-MVPS-XL	3 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	2	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
	2	277	Electronic – Program / Rapid Start	29622	GE-232-277-PS-N	2 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	2	277	Electronic – Standard Instant Start	23674	GE-332-277-N	3 or 2 – F32T8 277V "N" .87 BF ProLine®
	2	277	Electronic – Program / Rapid Start	29624	GE-332-277-PS-N	3 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	2	277	Magnetic – Rapid Start	87130	GEM232T8RS277	2 – F32T8 RS 277V Magnetic Ballast (M232SR277C)
	2	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Program / Rapid Start	29621	GE-232-120-PS-N	2 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	2	120	Electronic – Standard Instant Start	97782	GE232-120-RES	2 or 1 – F32T8 120V "N" .87 BF Residential ProLine®
	2	120	Electronic – Standard Instant Start	23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Standard Instant Start	23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Program / Rapid Start	29623	GE-332-120-PS-N	3 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72258	GE132MAX-L/ULTRA	1 – F32T8 120 to 277 "L" .77BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72259	GE132MAX-N/ULTRA	1 – F32T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	72269	GE-132-MV-N	1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49775	GE232MAX-H/ULTRA	2 or 1 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72262	GE232MAX-L/ULTRA	2 or 1 – F32T8 120 to 277 "L" .77 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	71723	GE232MAX-N/ULTRA	2 or 1 – F32T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72273	GE-232-MV-L	2 or 1 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Program / Rapid Start	29675	GE-232-MVPS-H	2 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	96720	GE232-MVPS-L	2 or 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	96714	GE232-MVPS-N	2 or 1 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	29671	GE-232-MVPS-XL	2 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	71714	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	71717	GE332MAX-L/ULTRA	3 or 2 – F32T8 120 to 277 "L" .77 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	71719	GE332MAX-N/ULTRA	3 or 2 – F32T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	30199	GE-332-MV-H	3 or 2 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	30255	GE-332-MV-L	3 or 2 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	30192	GE-332-MV-N	3 or 2 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Program / Rapid Start	29676	GE-332-MVPS-H	3 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	96721	GE332-MVPS-L	3 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	96715	GE332-MVPS-N	3 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	29672	GE-332-MVPS-XL	3 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	1	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
	1	277	Electronic – Program / Rapid Start	29622	GE-232-277-PS-N	2 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	1	120	Electronic – Standard Instant Start	23680	GE-132-120-N	1 – F32T8 120V "N" .87 BF ProLine®
	1	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
	1	120	Electronic – Program / Rapid Start	29621	GE-232-120-PS-N	2 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	1	120	Electronic – Standard Instant Start	97782	GE232-120-RES	2 or 1 – F32T8 120V "N" .87 BF Residential ProLine®
F18T8	1	120	Magnetic – Rapid Start	89711	GEM120PH120DIY	1 – F20T12 F15T8 F1512 120V Magnetic Ballast (200H2)
F20T12	2	120-277	Electronic – Program / Rapid Start	24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	2	120	Magnetic – Rapid Start	80819	GEM220TS120DIY	2- F20T12 F15T8 F15T12 F14T12 120V Magnetic Ballast (447LRVLHTCP)
	1	120-277	Electronic – Program / Rapid Start	24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12

Ballast

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F20T12 (cont)	1	120	Magnetic – Rapid Start	89711	GEM120PH120DIY	1 – F20T12 F15T8 F15T12 120V Magnetic Ballast (200H2)
	1	120	Magnetic – Rapid Start	89712	GEM120TC120DIY	1 – F20T12 F15T8 F15T12 F14T12 120V Magnetic Ballast (546BTCP)
F21T5/HE	2	120-277	Electronic – Program / Rapid Start	47536	B228PUNV-COG1C	2 – F28T5 PRS UNV 50/60 Hz
	2	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	2	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	15 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
	2	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
	1	120-277	Electronic – Program / Rapid Start	47536	B228PUNV-COG1C	2 – F28T5 PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	14 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
F21T5/WM	2	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	2	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
F24T5/HO	2	120-277	Electronic – Program / Rapid Start	47534	B224PUNV-COG1C	2 – F24T5HO PRS UNV 50/60 Hz
	2	120-277	Electronic – Program / Rapid Start	47540	B239PUNV-DOG1C	2 – F39T5HO PRS UNV 50/60 Hz
	2	120-277	Electronic – Program / Rapid Start	71445	GEC226-MVPS-3W	2 – CFQ26W, FT24 or 1-42W, CFTR32 3-Way Mounting Kit 120-277V ProLine® PS
	2	120-277	Electronic – Program / Rapid Start	71444	GEC226-MVPS-XX	2 – CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	47534	B224PUNV-COG1C	2 – F24T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	47540	B239PUNV-DOG1C	2 – F39T5HO PRS UNV 50/60 Hz
F25T12	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71723	GE432MAX-H/ULTRA	4 or 3 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71725	GE432MAX-L/ULTRA	4 or 3 – F32T8 120 to 277 "L" .77 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71727	GE432MAX-N/ULTRA	4 or 3 – F32T8 120 to 277 "N" .87 BF UltraMax®
	4	277	Electronic – Standard Instant Start	23676	GE-432-277-N	4 or 3 – F32T8 277V "N" .87 BF ProLine®
	4	120	Electronic – Standard Instant Start	23675	GE-432-120-N	4 or 3 – F32T8 120V "N" .87 BF ProLine®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71714	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71717	GE332MAX-L/ULTRA	3 or 2 – F32T8 120 to 277 "L" .77 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71719	GE332MAX-N/ULTRA	3 or 2 – F32T8 120 to 277 "N" .87 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71723	GE432MAX-H/ULTRA	4 or 3 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71725	GE432MAX-L/ULTRA	4 or 3 – F32T8 120 to 277 "L" .77 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71727	GE432MAX-N/ULTRA	4 or 3 – F32T8 120 to 277 "N" .87 BF UltraMax®
	3	277	Electronic – Standard Instant Start	23674	GE-332-277-N	3 or 2 – F32T8 277V "N" .87 BF ProLine®
	3	277	Electronic – Standard Instant Start	23676	GE-432-277-N	4 or 3 – F32T8 277V "N" .87 BF ProLine®
	3	120	Electronic – Standard Instant Start	23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®
	3	120	Electronic – Standard Instant Start	23675	GE-432-120-N	4 or 3 – F32T8 120V "N" .87 BF ProLine®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	49775	GE232MAX-H/ULTRA	2 or 1 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71725	GE232MAX-L/ULTRA	2 or 1 – F32T8 120 to 277 "L" .77 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	72266	GE232MAX-N/ULTRA	2 or 1 – F32T8 120 to 277 "N" .87 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71714	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71717	GE332MAX-L/ULTRA	3 or 2 – F32T8 120 to 277 "L" .77 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71719	GE332MAX-N/ULTRA	3 or 2 – F32T8 120 to 277 "N" .87 BF UltraMax®
	2	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
	2	277	Electronic – Standard Instant Start	23674	GE-332-277-N	3 or 2 – F32T8 277V "N" . 87 BF ProLine®
	2	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Program / Rapid Start	97498	GE240RS120	2 F40 or F34T12 Rapid Start Electronic 120V "N" BF
	2	120	Electronic – Standard Instant Start	23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72258	GE132MAX-L/ULTRA	1 – F32T8 120 to 277 "L" .77BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72259	GE132MAX-N/ULTRA	1 – F32T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49775	GE232MAX-H/ULTRA	2 or 1 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	71725	GE232MAX-L/ULTRA	2 or 1 – F32T8 120 to 277 "L" .77 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72266	GE232MAX-N/ULTRA	2 or 1 – F32T8 120 to 277 "N" .87 BF UltraMax®
	1	277	Electronic – Standard Instant Start	23681	GE-132-277-N	1 – F32T8 277V "N" .87 BF ProLine®
	1	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
	1	120	Electronic – Standard Instant Start	23680	GE-132-120-N	1 – F32T8 120V "N" .87 BF ProLine®
	1	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
F25T8	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	4	120-277	Electronic – Program / Rapid Start	71832	GE432-MVPS-L	4 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	3	120-277	Electronic – Program / Rapid Start	71832	GE432-MVPS-L	4 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F25T8 (cont)	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71723	GE432MAX-H/ULTRA	4 or 3 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71725	GE432MAX-L/ULTRA	4 or 3 – F32T8 120 to 277 "L" .77 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71727	GE432MAX-N/ULTRA	4 or 3 – F32T8 120 to 277 "N" .87 BF UltraMax®
	4	120-277	Electronic – Multivolt Instant Start	30219	GE-432-MV-H	4 or 3 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30262	GE-432-MV-L	4 or 3 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	4	120-277	Electronic – Program / Rapid Start	29678	GE-432-MVPS-H	4 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	4	120-277	Electronic – Program / Rapid Start	96716	GE432-MVPS-N	4 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	4	277	Electronic – Standard Instant Start	23676	GE-432-277-N	4 or 3 – F32T8 277V "N" .87 BF ProLine®
	4	277	Electronic – Program / Rapid Start	29627	GE-432-277-PS-N	4 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	4	120	Electronic – Standard Instant Start	23675	GE-432-120-N	4 or 3 – F32T8 120V "N" .87 BF ProLine®
	4	120	Electronic – Program / Rapid Start	29625	GE-432-120-PS-N	4 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	4	120	Electronic – Standard Instant Start	97783	GE432-120-RES	4 or 3 F32T8 120V Normal Light Residential Grade FCC Class B
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71714	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71717	GE332MAX-L/ULTRA	3 or 2 – F32T8 120 to 277 "L" .77 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71719	GE332MAX-N/ULTRA	3 or 2 – F32T8 120 to 277 "N" .87 BF UltraMax®
	3	120-277	Electronic – Multivolt Instant Start	30199	GE-332-MV-H	3 or 2 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30255	GE-332-MV-L	3 or 2 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30192	GE-332-MV-N	3 or 2 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Program / Rapid Start	29676	GE-332-MVPS-H	3 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96721	GE332-MVPS-L	3 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96715	GE332-MVPS-N	3 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	29672	GE-332-MVPS-XL	3 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71723	GE432MAX-H/ULTRA	4 or 3 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71725	GE432MAX-L/ULTRA	4 or 3 – F32T8 120 to 277 "L" .77 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71727	GE432MAX-N/ULTRA	4 or 3 – F32T8 120 to 277 "N" .87 BF UltraMax®
	3	120-277	Electronic – Multivolt Instant Start	30219	GE-432-MV-H	4 or 3 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30262	GE-432-MV-L	4 or 3 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Program / Rapid Start	29678	GE-432-MVPS-H	4 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96716	GE432-MVPS-N	4 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	3	277	Electronic – Standard Instant Start	23674	GE-332-277-N	3 or 2 – F32T8 277V "N" .87 BF ProLine®
	3	277	Electronic – Program / Rapid Start	29624	GE-332-277-PS-N	3 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	3	277	Electronic – Standard Instant Start	23676	GE-432-277-N	4 or 3 – F32T8 277V "N" .87 BF ProLine®
	3	277	Electronic – Program / Rapid Start	29627	GE-432-277-PS-N	4 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	3	120	Electronic – Standard Instant Start	23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®
	3	120	Electronic – Program / Rapid Start	29623	GE-332-120-PS-N	3 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	3	120	Electronic – Standard Instant Start	23675	GE-432-120-N	4 or 3 – F32T8 120V "N" .87 BF ProLine®
	3	120	Electronic – Program / Rapid Start	29625	GE-432-120-PS-N	4 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	3	120	Electronic – Standard Instant Start	97783	GE432-120-RES	4 or 3 F32T8 120V Normal Light Residential Grade FCC Class B
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	49775	GE232MAX-H/ULTRA	2 or 1 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	72262	GE232MAX-L/ULTRA	2 or 1 – F32T8 120 to 277 "L" .77 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	72266	GE232MAX-N/ULTRA	2 or 1 – F32T8 120 to 277 "N" .87 BF UltraMax®
	2	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	72273	GE-232-MV-L	2 or 1 – F32T8 120 to 277 "L".77 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	29675	GE-232-MVPS-H	2 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96720	GE232-MVPS-L	2 or 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96714	GE232-MVPS-N	2 or 1 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	29671	GE-232-MVPS-XL	2 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71714	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71717	GE332MAX-L/ULTRA	3 or 2 – F32T8 120 to 277 "L" .77 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71719	GE332MAX-N/ULTRA	3 or 2 – F32T8 120 to 277 "N" .87 BF UltraMax®
	2	120-277	Electronic – Multivolt Instant Start	30199	GE-332-MV-H	3 or 2 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	30255	GE-332-MV-L	3 or 2 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	30192	GE-332-MV-N	3 or 2 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	29676	GE-332-MVPS-H	3 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96721	GE332-MVPS-L	3 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96715	GE332-MVPS-N	3 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F25T8 (cont)	2	120-277	Electronic – Program / Rapid Start	29672	GE-332-MVPS-XL	3 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	2	277	Electronic – Dimming	80362	B232SR277S50	2 – F32T8 Switch 100/50% RS 277
	2	277	Electronic – Dimming	80362	B232SR277S50	2 – F32T8 Switch 100/50% RS 277
	2	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
	2	277	Electronic – Program / Rapid Start	29622	GE-232-277-PS-N	2 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	2	277	Electronic – Standard Instant Start	23674	GE-332-277-N	3 or 2 – F32T8 277V "N" .87 BF ProLine®
	2	277	Electronic – Program / Rapid Start	29624	GE-332-277-PS-N	3 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	2	277	Magnetic – Rapid Start	87130	GEM232T8RS277	2 – F32T8 RS 277V Magnetic Ballast (M232SR277C)
	2	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Program / Rapid Start	29621	GE-232-120-PS-N	2 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	2	120	Electronic – Standard Instant Start	97782	GE232-120-RES	2 or 1 – F32T8 120V "N" .87 BF Residential ProLine®
	2	120	Electronic – Standard Instant Start	23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Program / Rapid Start	29623	GE-332-120-PS-N	3 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72258	GE132MAX-L/ULTRA	1 – F32T8 120 to 277 "L" .77BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72259	GE132MAX-N/ULTRA	1 – F32T8 120 to 277"N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	72269	GE-132-MV-N	1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49775	GE232MAX-H/ULTRA	2 or 1 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72262	GE232MAX-L/ULTRA	2 or 1 – F32T8 120 to 277 "L" .77 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72266	GE232MAX-N/ULTRA	2 or 1 – F32T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72273	GE-232-MV-L	2 or 1 – F32T8 120 to 277 "L".77 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Program / Rapid Start	29675	GE-232-MVPS-H	2 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	96720	GE232-MVPS-L	2 or 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	96714	GE232-MVPS-N	2 or 1 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	29671	GE-232-MVPS-XL	2 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	1	277	Electronic – Standard Instant Start	23681	GE-132-277-N	1 – F32T8 277V "N" .87 BF ProLine®
	1	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
	1	277	Electronic – Program / Rapid Start	29622	GE-232-277-PS-N	2 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	1	120	Electronic – Dimming	80353	B132R120V5	1 – F32T8 DIM 100 to 5% RS 120
	1	120	Electronic – Dimming	80353	B132R120V5	1 – F32T8 DIM 100 to 5% RS 120
	1	120	Electronic – Standard Instant Start	23680	GE-132-120-N	1 – F32T8 120V "N" .87 BF ProLine®
	1	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
	1	120	Electronic – Program / Rapid Start	29621	GE-232-120-PS-N	2 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	1	120	Electronic – Standard Instant Start	97782	GE232-120-RES	2 or 1 – F32T8 120V "N" .87 BF Residential ProLine®
F28T5	2	120-277	Electronic – Program / Rapid Start	47536	B228PUNV-COG1C	2 – F28T5 PRS UNV 50/60 Hz
	2	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	8 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
	1	120-277	Electronic – Program / Rapid Start	47536	B228PUNV-COG1C	2 – F28T5 PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	7 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
F28T5/HE	2	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	2	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
F28T5/HL	2	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	2	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
F28T5/WM	2	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	2	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
F28T8	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	4	120-277	Electronic – Program / Rapid Start	71832	GE432-MVPS-L	4 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	3	120-277	Electronic – Program / Rapid Start	71832	GE432-MVPS-L	4 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71723	GE432MAX-H/ULTRA	4 or 3 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71725	GE432MAX-L/ULTRA	4 or 3 – F32T8 120 to 277 "L" .77 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71727	GE432MAX-N/ULTRA	4 or 3 – F32T8 120 to 277 "N" .87 BF UltraMax®
	4	120-277	Electronic – Multivolt Instant Start	30219	GE-432-MV-H	4 or 3 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30262	GE-432-MV-L	4 or 3 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F28T8 (cont)	4	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	4	120-277	Electronic – Program / Rapid Start	29678	GE-432-MVPS-H	4 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	4	120-277	Electronic – Program / Rapid Start	96716	GE432-MVPS-N	4 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	4	277	Electronic – Standard Instant Start	23676	GE-432-277-N	4 or 3 – F32T8 277V "N" .87 BF ProLine®
	4	277	Electronic – Program / Rapid Start	29627	GE-432-277-PS-N	4 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	4	120	Electronic – Standard Instant Start	23675	GE-432-120-N	4 or 3 – F32T8 120V "N" .87 BF ProLine®
	4	120	Electronic – Program / Rapid Start	29625	GE-432-120-PS-N	4 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	4	120	Electronic – Standard Instant Start	97783	GE432-120-RES	4 or 3 F32T8 120V Normal Light Residential Grade FCC Class B
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71714	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71717	GE332MAX-L/ULTRA	3 or 2 – F32T8 120 to 277 "L" .77 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71719	GE332MAX-N/ULTRA	3 or 2 – F32T8 120 to 277 "N" .87 BF UltraMax®
	3	120-277	Electronic – Multivolt Instant Start	30199	GE-332-MV-H	3 or 2 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30255	GE-332-MV-L	3 or 2 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30192	GE-332-MV-N	3 or 2 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Program / Rapid Start	29676	GE-332-MVPS-H	3 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96721	GE332-MVPS-L	3 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96715	GE332-MVPS-N	3 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	29672	GE-332-MVPS-XL	3 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71723	GE432MAX-H/ULTRA	4 or 3 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71725	GE432MAX-L/ULTRA	4 or 3 – F32T8 120 to 277 "L" .77 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71727	GE432MAX-N/ULTRA	4 or 3 – F32T8 120 to 277 "N" .87 BF UltraMax®
	3	120-277	Electronic – Multivolt Instant Start	30219	GE-432-MV-H	4 or 3 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30262	GE-432-MV-L	4 or 3 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Program / Rapid Start	29678	GE-432-MVPS-H	4 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96716	GE432-MVPS-N	4 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	3	277	Electronic – Standard Instant Start	23674	GE-332-277-N	3 or 2 – F32T8 277V "N" .87 BF ProLine®
	3	277	Electronic – Program / Rapid Start	29624	GE-332-277-PS-N	3 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	3	277	Electronic – Standard Instant Start	23676	GE-432-277-N	4 or 3 – F32T8 277V "N" .87 BF ProLine®
	3	277	Electronic – Program / Rapid Start	29627	GE-432-277-PS-N	4 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	3	120	Electronic – Standard Instant Start	23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®
	3	120	Electronic – Program / Rapid Start	29623	GE-332-120-PS-N	3 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	3	120	Electronic – Standard Instant Start	23675	GE-432-120-N	4 or 3 – F32T8 120V "N" .87 BF ProLine®
	3	120	Electronic – Program / Rapid Start	29625	GE-432-120-PS-N	4 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	3	120	Electronic – Standard Instant Start	97783	GE432-120-RES	4 or 3 F32T8 120V Normal Light Residential Grade FCC Class B
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	49775	GE232MAX-H/ULTRA	2 or 1 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	72262	GE232MAX-L/ULTRA	2 or 1 – F32T8 120 to 277 "L" .77 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	72266	GE232MAX-N/ULTRA	2 or 1 – F32T8 120 to 277 "N" .87 BF UltraMax®
	2	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	72273	GE-232-MV-L	2 or 1 – F32T8 120 to 277 "L".77 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	29675	GE-232-MVPS-H	2 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96720	GE232-MVPS-L	2 or 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96714	GE232-MVPS-N	2 or 1 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	29671	GE-232-MVPS-XL	2 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71714	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71717	GE332MAX-L/ULTRA	3 or 2 – F32T8 120 to 277 "L" .77 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71719	GE332MAX-N/ULTRA	3 or 2 – F32T8 120 to 277 "N" .87 BF UltraMax®
	2	120-277	Electronic – Multivolt Instant Start	30199	GE-332-MV-H	3 or 2 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	30255	GE-332-MV-L	3 or 2 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	30192	GE-332-MV-N	3 or 2 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	29676	GE-332-MVPS-H	3 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96721	GE332-MVPS-L	3 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96715	GE332-MVPS-N	3 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	29672	GE-332-MVPS-XL	3 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	2	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
	2	277	Electronic – Program / Rapid Start	29622	GE-232-277-PS-N	2 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	2	277	Electronic – Standard Instant Start	23674	GE-332-277-N	3 or 2 – F32T8 277V "N" .87 BF ProLine®
	2	277	Electronic – Program / Rapid Start	29624	GE-332-277-PS-N	3 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	2	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Program / Rapid Start	29621	GE-232-120-PS-N	2 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	2	120	Electronic – Standard Instant Start	97782	GE232-120-RES	2 or 1 – F32T8 120V "N" .87 BF Residential ProLine®

Ballast

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F28T8 (cont)	2	120	Electronic – Standard Instant Start	23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Program / Rapid Start	29623	GE-332-120-PS-N	3 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72258	GE132MAX-L/ULTRA	1 – F32T8 120 to 277 "L" .77BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72259	GE132MAX-N/ULTRA	1 – F32T8 120 to 277"N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	72269	GE-132-MV-N	1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49775	GE232MAX-H/ULTRA	2 or 1 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72262	GE232MAX-L/ULTRA	2 or 1 – F32T8 120 to 277 "L" .77 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72266	GE232MAX-N/ULTRA	2 or 1 – F32T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72273	GE-232-MV-L	2 or 1 – F32T8 120 to 277 "L".77 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Program / Rapid Start	29675	GE-232-MVPS-H	2 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	96720	GE232-MVPS-L	2 or 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	96714	GE232-MVPS-N	2 or 1 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	29671	GE-232-MVPS-XL	2 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	1	277	Electronic – Standard Instant Start	23681	GE-132-277-N	1 – F32T8 277V "N" .87 BF ProLine®
	1	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
	1	277	Electronic – Program / Rapid Start	29622	GE-232-277-PS-N	2 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	1	120	Electronic – Standard Instant Start	23680	GE-132-120-N	1 – F32T8 120V "N" .87 BF ProLine®
	1	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
	1	120	Electronic – Program / Rapid Start	29621	GE-232-120-PS-N	2 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	1	120	Electronic – Standard Instant Start	97782	GE232-120-RES	2 or 1 – F32T8 120V "N" .87 BF Residential ProLine®
F30T12	3	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120-277	Electronic – Program / Rapid Start	24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	2	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120	Electronic – Program / Rapid Start	97498	GE240RS120	2 F40 or F34T12 Rapid Start Electronic 120V "N" BF
	2	120	Magnetic – Rapid Start	80644	GEM230RS120DIY	2 – F30T12 120V Magnetic Ballast (573LTCP)
	1	120-277	Electronic – Program / Rapid Start	24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	1	120	Electronic – Program / Rapid Start	72110	GE140RS120-DIY	1 – F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
	1	120	Electronic – Program / Rapid Start	72110	GE140RS120-DIY	1 F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
	1	120	Magnetic – Rapid Start	89709	GEM140RS120DIY	1 – F40T12 F30T12 F48/25W 120V Magnetic Ballast (413CTCP)
F30T12/WM	2	120	Magnetic – Rapid Start	80644	GEM230RS120DIY	2 – F30T12 120V Magnetic Ballast (573LTCP)
	3	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120-277	Electronic – Program / Rapid Start	24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	2	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	1	120-277	Electronic – Program / Rapid Start	24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
F32T8	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	4	120-277	Electronic – Program / Rapid Start	71832	GE432-MVPS-L	4 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	3	120-277	Electronic – Program / Rapid Start	71832	GE432-MVPS-L	4 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71723	GE432MAX-H/ULTRA	4 or 3 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71725	GE432MAX-L/ULTRA	4 or 3 – F32T8 120 to 277 "L" .77 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71727	GE432MAX-N/ULTRA	4 or 3 – F32T8 120 to 277 "N" .87 BF UltraMax®
	4	120-277	Electronic – Multivolt Instant Start	30219	GE-432-MV-H	4 or 3 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30262	GE-432-MV-L	4 or 3 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	4	120-277	Electronic – Program / Rapid Start	29678	GE-432-MVPS-H	4 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	4	120-277	Electronic – Program / Rapid Start	96716	GE432-MVPS-N	4 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	4	277	Electronic – Standard Instant Start	23676	GE-432-277-N	4 or 3 – F32T8 277V "N" .87 BF ProLine®
	4	277	Electronic – Program / Rapid Start	29627	GE-432-277-PS-N	4 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	4	120	Electronic – Standard Instant Start	23675	GE-432-120-N	4 or 3 – F32T8 120V "N" .87 BF ProLine®
	4	120	Electronic – Program / Rapid Start	29625	GE-432-120-PS-N	4 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	4	120	Electronic – Standard Instant Start	97783	GE432-120-RES	4 or 3 F32T8 120V Normal Light Residential Grade FCC Class B
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71714	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71717	GE332MAX-L/ULTRA	3 or 2 – F32T8 120 to 277 "L" .77 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71719	GE332MAX-N/ULTRA	3 or 2 – F32T8 120 to 277 "N" .87 BF UltraMax®
	3	120-277	Electronic – Multivolt Instant Start	30199	GE-332-MV-H	3 or 2 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30255	GE-332-MV-L	3 or 2 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30192	GE-332-MV-N	3 or 2 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F32T8 (cont)	3	120-277	Electronic – Program / Rapid Start	29676	GE-332-MVPS-H	3 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96721	GE332-MVPS-L	3 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96715	GE332-MVPS-N	3 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	29672	GE-332-MVPS-XL	3 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71723	GE432MAX-H/ULTRA	4 or 3 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71725	GE432MAX-L/ULTRA	4 or 3 – F32T8 120 to 277 "L" .77 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71727	GE432MAX-N/ULTRA	4 or 3 – F32T8 120 to 277 "N" .87 BF UltraMax®
	3	120-277	Electronic – Multivolt Instant Start	30219	GE-432-MV-H	4 or 3 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30262	GE-432-MV-L	4 or 3 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Program / Rapid Start	29678	GE-432-MVPS-H	4 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96716	GE432-MVPS-N	4 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	3	277	Electronic – Dimming	80358	B332SR277V5	3 – F32T8 DIM 100 to 5% RS 277
	3	277	Electronic – Dimming	80358	B332SR277V5	3 – F32T8 DIM 100 to 5% RS 277
	3	277	Electronic – Standard Instant Start	23674	GE-332-277-N	3 or 2 – F32T8 277V "N" .87 BF ProLine®
	3	277	Electronic – Program / Rapid Start	29624	GE-332-277-PS-N	3 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	3	277	Electronic – Standard Instant Start	23676	GE-432-277-N	4 or 3 – F32T8 277V "N" .87 BF ProLine®
	3	277	Electronic – Program / Rapid Start	29627	GE-432-277-PS-N	4 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	3	120	Electronic – Dimming	80357	B332SR120V5	3 – F32T8 DIM 100 to 5% RS 120
	3	120	Electronic – Dimming	80357	B332SR120V5	3 – F32T8 DIM 100 to 5% RS 120
	3	120	Electronic – Standard Instant Start	23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®
	3	120	Electronic – Program / Rapid Start	29623	GE-332-120-PS-N	3 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	3	120	Electronic – Standard Instant Start	23675	GE-432-120-N	4 or 3 – F32T8 120V "N" .87 BF ProLine®
	3	120	Electronic – Program / Rapid Start	29625	GE-432-120-PS-N	4 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	3	120	Electronic – Standard Instant Start	97783	GE432-120-RES	4 or 3 F32T8 120V Normal Light Residential Grade FCC Class B
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	49775	GE232MAX-H/ULTRA	2 or 1 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	72262	GE232MAX-L/ULTRA	2 or 1 – F32T8 120 to 277 "L" .77 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	72266	GE232MAX-N/ULTRA	2 or 1 – F32T8 120 to 277 "N" .87 BF UltraMax®
	2	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	72273	GE-232-MV-L	2 or 1 – F32T8 120 to 277 "L".77 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	29675	GE-232-MVPS-H	2 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96720	GE232-MVPS-L	2 or 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96714	GE232-MVPS-N	2 or 1 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	29671	GE-232-MVPS-XL	2 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71714	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71717	GE332MAX-L/ULTRA	3 or 2 – F32T8 120 to 277 "L" .77 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71719	GE332MAX-N/ULTRA	3 or 2 – F32T8 120 to 277 "N" .87 BF UltraMax®
	2	120-277	Electronic – Multivolt Instant Start	30199	GE-332-MV-H	3 or 2 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	30255	GE-332-MV-L	3 or 2 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	30192	GE-332-MV-N	3 or 2 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	29676	GE-332-MVPS-H	3 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96721	GE332-MVPS-L	3 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96715	GE332-MVPS-N	3 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	29672	GE-332-MVPS-XL	3 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	2	277	Electronic – Dimming	80362	B232SR277S50	2 – F32T8 Switch 100/50% RS 277
	2	277	Electronic – Dimming	80362	B232SR277S50	2 – F32T8 Switch 100/50% RS 277
	2	277	Electronic – Dimming	80362	B232SR277S50	2 – F32T8 Switch 100/50% RS 277
	2	277	Electronic – Dimming	80356	B232SR277V5	2 – F32T8 DIM 100 to 5% RS 277
	2	277	Electronic – Dimming	80356	B232SR277V5	2 – F32T8 DIM 100 to 5% RS 277
	2	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
	2	277	Electronic – Program / Rapid Start	29622	GE-232-277-PS-N	2 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	2	277	Electronic – Standard Instant Start	23674	GE-332-277-N	3 or 2 – F32T8 277V "N" .87 BF ProLine®
	2	277	Electronic – Program / Rapid Start	29624	GE-332-277-PS-N	3 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	2	277	Magnetic – Rapid Start	87130	GEM232T8RS277	2 – F32T8 RS 277V Magnetic Ballast (M232SR277C)
	2	120	Electronic – Dimming	80355	B232SR120V5	2 – F32T8 DIM 100 to 5% RS 120
	2	120	Electronic – Dimming	80355	B232SR120V5	2 – F32T8 DIM 100 to 5% RS 120
	2	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Program / Rapid Start	29621	GE-232-120-PS-N	2 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	2	120	Electronic – Standard Instant Start	97782	GE232-120-RES	2 or 1 – F32T8 120V "N" .87 BF Residential ProLine®
	2	120	Electronic – Standard Instant Start	23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Program / Rapid Start	29623	GE-332-120-PS-N	3 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	2	120	Magnetic – Rapid Start	87125	GEM232T8RS120	2 – F32T8 RS 120V Magnetic Ballast (M232SR120C)

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F32T8 (cont)	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72258	GE132MAX-L/ULTRA	1 – F32T8 120 to 277 "L" .77BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72259	GE132MAX-N/ULTRA	1 – F32T8 120 to 277"N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	72269	GE-132-MV-N	1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49775	GE232MAX-H/ULTRA	2 or 1 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72262	GE232MAX-L/ULTRA	2 or 1 – F32T8 120 to 277 "L" .77 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72266	GE232MAX-N/ULTRA	2 or 1 – F32T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72273	GE-232-MV-L	2 or 1 – F32T8 120 to 277 "L".77 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Program / Rapid Start	29675	GE-232-MVPS-H	2 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	96720	GE232-MVPS-L	2 or 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	96714	GE232-MVPS-N	2 or 1 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	29671	GE-232-MVPS-XL	2 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	1	277	Electronic – Standard Instant Start	23681	GE-132-277-N	1 – F32T8 277V "N" .87 BF ProLine®
	1	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
	1	277	Electronic – Program / Rapid Start	29622	GE-232-277-PS-N	2 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	1	120	Electronic – Dimming	80353	B132R120V5	1 – F32T8 DIM 100 to 5% RS 120
	1	120	Electronic – Dimming	80353	B132R120V5	1 – F32T8 DIM 100 to 5% RS 120
	1	120	Electronic – Standard Instant Start	23680	GE-132-120-N	1 – F32T8 120V "N" .87 BF ProLine®
	1	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
	1	120	Electronic – Program / Rapid Start	29621	GE-232-120-PS-N	2 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	1	120	Electronic – Standard Instant Start	97782	GE232-120-RES	2 or 1 – F32T8 120V "N" .87 BF Residential ProLine®
F32T8/WM	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	4	120-277	Electronic – Program / Rapid Start	71832	GE432-MVPS-L	4 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	3	120-277	Electronic – Program / Rapid Start	71832	GE432-MVPS-L	4 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71723	GE432MAX-H/ULTRA	4 or 3 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71725	GE432MAX-L/ULTRA	4 or 3 – F32T8 120 to 277 "L" .77 BF UltraMax®
	4	120-277	Electronic – High Efficiency Multivolt Instant Start	71727	GE432MAX-N/ULTRA	4 or 3 – F32T8 120 to 277 "N" .87 BF UltraMax®
	4	120-277	Electronic – Multivolt Instant Start	30219	GE-432-MV-H	4 or 3 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30262	GE-432-MV-L	4 or 3 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	4	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	4	120-277	Electronic – Program / Rapid Start	29678	GE-432-MVPS-H	4 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	4	120-277	Electronic – Program / Rapid Start	96716	GE432-MVPS-N	4 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	4	277	Electronic – Standard Instant Start	23676	GE-432-277-N	4 or 3 – F32T8 277V "N" .87 BF ProLine®
	4	277	Electronic – Program / Rapid Start	29627	GE-432-277-PS-N	4 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	4	120	Electronic – Standard Instant Start	23675	GE-432-120-N	4 or 3 – F32T8 120V "N" .87 BF ProLine®
	4	120	Electronic – Program / Rapid Start	29625	GE-432-120-PS-N	4 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	4	120	Electronic – Standard Instant Start	97783	GE432-120-RES	4 or 3 F32T8 120V Normal Light Residential Grade FCC Class B
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71714	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71717	GE332MAX-L/ULTRA	3 or 2 – F32T8 120 to 277 "L" .77 BF UltraMax®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71719	GE332MAX-N/ULTRA	3 or 2 – F32T8 120 to 277 "N" .87 BF UltraMax®
	3	120-277	Electronic – Multivolt Instant Start	30199	GE-332-MV-H	3 or 2 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30255	GE-332-MV-L	3 or 2 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30192	GE-332-MV-N	3 or 2 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Program / Rapid Start	29676	GE-332-MVPS-H	3 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96721	GE332-MVPS-L	3 – F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	96715	GE332-MVPS-N	3 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	3	120-277	Electronic – Program / Rapid Start	29672	GE-332-MVPS-XL	3 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	2	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
	2	277	Electronic – Program / Rapid Start	29622	GE-232-277-PS-N	2 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	2	277	Electronic – Standard Instant Start	23674	GE-332-277-N	3 or 2 – F32T8 277V "N" .87 BF ProLine®
	2	277	Electronic – Program / Rapid Start	29624	GE-332-277-PS-N	3 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	2	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Program / Rapid Start	29621	GE-232-120-PS-N	2 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	2	120	Electronic – Standard Instant Start	97782	GE232-120-RES	2 or 1 – F32T8 120V "N" .87 BF Residential ProLine®
	2	120	Electronic – Standard Instant Start	23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Program / Rapid Start	29623	GE-332-120-PS-N	3 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72258	GE132MAX-L/ULTRA	1 – F32T8 120 to 277 "L" .77BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72259	GE132MAX-N/ULTRA	1 – F32T8 120 to 277"N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	72269	GE-132-MV-N	1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49775	GE232MAX-H/ULTRA	2 or 1 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72262	GE232MAX-L/ULTRA	2 or 1 – F32T8 120 to 277 "L" .77 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	72266	GE232MAX-N/ULTRA	2 or 1 – F32T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72273	GE-232-MV-L	2 or 1 – F32T8 120 to 277 "L".77 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Program / Rapid Start	29675	GE-232-MVPS-H	2 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	96720	GE232-MVPS-L	2 or 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	96714	GE232-MVPS-N	2 or 1 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	1	120-277	Electronic – Program / Rapid Start	29671	GE-232-MVPS-XL	2 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	1	277	Electronic – Standard Instant Start	23681	GE-132-277-N	1 – F32T8 277V "N" .87 BF ProLine®
	1	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
	1	277	Electronic – Program / Rapid Start	29622	GE-232-277-PS-N	2 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	1	120	Electronic – Standard Instant Start	23680	GE-132-120-N	1 – F32T8 120V "N" .87 BF ProLine®
	1	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
	1	120	Electronic – Program / Rapid Start	29621	GE-232-120-PS-N	2 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	1	120	Electronic – Standard Instant Start	97782	GE232-120-RES	2 or 1 – F32T8 120V "N" .87 BF Residential ProLine®
F34T12	3	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120-277	Electronic – Program / Rapid Start	24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	2	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120	Electronic – Program / Rapid Start	97498	GE240RS120	2 F40 or F34T12 Rapid Start Electronic 120V "N" BF
	2	120	Electronic – Program / Rapid Start	97498	GE240RS120	2 F40 or F34T12 Rapid Start Electronic 120V "N" BF
F32T8/WM (cont)	3	277	Electronic – Program / Rapid Start	29624	GE-332-277-PS-N	3 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	3	277	Electronic – Standard Instant Start	23676	GE-432-277-N	4 or 3 – F32T8 277V "N" .87 BF ProLine®
	3	277	Electronic – Program / Rapid Start	29627	GE-432-277-PS-N	4 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	3	120	Electronic – Standard Instant Start	23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®
	3	120	Electronic – Program / Rapid Start	29623	GE-332-120-PS-N	3 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	3	120	Electronic – Standard Instant Start	23675	GE-432-120-N	4 or 3 – F32T8 120V "N" .87 BF ProLine®
	3	120	Electronic – Program / Rapid Start	29625	GE-432-120-PS-N	4 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	3	120	Electronic – Standard Instant Start	97783	GE432-120-RES	4 or 3 F32T8 120V Normal Light Residential Grade FCC Class B
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	49775	GE232MAX-H/ULTRA	2 or 1 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	72262	GE232MAX-L/ULTRA	2 or 1 – F32T8 120 to 277 "L" .77 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	72266	GE232MAX-N/ULTRA	2 or 1 – F32T8 120 to 277 "N" .87 BF UltraMax®
	2	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	72273	GE-232-MV-L	2 or 1 – F32T8 120 to 277 "L".77 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	29675	GE-232-MVPS-H	2 – F32T8 120V-277V High Light 1.15 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96720	GE232-MVPS-L	2 or 1 F32T8 120V-277V Low Watts .71 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	96714	GE232-MVPS-N	2 or 1 – F32T8 120V-277V Normal Light .88 BF <10% THD UltraStart®
	2	120-277	Electronic – Program / Rapid Start	29671	GE-232-MVPS-XL	2 – F32T8 120V-277V Ultra Low Watt .60 BF <10% THD
	2	277	Electronic – Standard Instant Start	23681	GE-132-277-N	1 – F32T8 277V "N" .87 BF ProLine®
	2	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
	2	277	Electronic – Program / Rapid Start	29622	GE-232-277-PS-N	2 – F32T8 277V Normal Light .87 BF <10% THD UltraStart®
	2	120	Electronic – Standard Instant Start	23680	GE-132-120-N	1 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
	2	120	Electronic – Program / Rapid Start	29621	GE-232-120-PS-N	2 – F32T8 120V Normal Light .87 BF <10% THD UltraStart®
	2	120	Electronic – Standard Instant Start	97782	GE232-120-RES	2 or 1 – F32T8 120V "N" .87 BF Residential ProLine®
F34T12	3	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120-277	Electronic – Program / Rapid Start	24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	2	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120	Electronic – Program / Rapid Start	97498	GE240RS120	2 F40 or F34T12 Rapid Start Electronic 120V "N" BF
	2	120	Electronic – Program / Rapid Start	97498	GE240RS120	2 F40 or F34T12 Rapid Start Electronic 120V "N" BF

Ballast

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F34T12 (cont)	1	120-277	Electronic – Program / Rapid Start	24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	1	120	Electronic – Program / Rapid Start	72110	GE140RS120-DIY	1 – F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
	1	120	Electronic – Program / Rapid Start	72110	GE140RS120-DIY	1 F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
	1	120	Magnetic – Rapid Start	89714	GEM140HRS120DIY	1 – F40T12 F40T12 120V Magnetic Ballast (412LSLHTCP)
	1	120	Magnetic – Rapid Start	89709	GEM140RS120DIY	1 – F40T12 F30T12 F48/25W 120V Magnetic Ballast (413CTCP)
F35T5/HE	2	120-277	Electronic – Program / Rapid Start	47536	B228PUNV-COG1C	2 – F28T5 PRS UNV 50/60 Hz
	2	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	2	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	12 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
	1	120-277	Electronic – Program / Rapid Start	47536	B228PUNV-COG1C	2 – F28T5 PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99653	GE228MVPSH-A	11 or 1 – F14-F35HE 120 to 277 UltraStart® PRS High Light 1.15 BF A Can
F35T5/WM	2	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
	1	120-277	Electronic – Program / Rapid Start	99655	GE228MVPS-A	2 or 1 – F14-F35HE 120 to 277 UltraStart® PRS Normal Light .95 BF A Can
F39T5/HO	2	120-277	Electronic – Program / Rapid Start	47540	B239PUNV-DOG1C	2 – F39T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	47534	B224PUNV-COG1C	2 – F24T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	47540	B239PUNV-DOG1C	2 – F39T5HO PRS UNV 50/60 Hz
F40T10	3	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120-277	Electronic – Program / Rapid Start	24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	2	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	277	Magnetic – Rapid Start	86124	GEM240RS277IP	2 – F40T12 RS 277V Magnetic Ballast (443LSLHTCP)
	2	120	Magnetic – Rapid Start	89710	GEM240HRS120DIY	2 – F40T12 F40T12 120V Magnetic Ballast (420LTCP)
	2	120	Magnetic – Rapid Start	86139	GEM240RS120IP	2 – F40T12 RS 120V Magnetic Ballast (446LSLHTCP)
	1	120-277	Electronic – Program / Rapid Start	24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	1	120	Magnetic – Rapid Start	89714	GEM140HRS120DIY	1 – F40T12 F40T12 120V Magnetic Ballast (412LSLHTCP)
F40T12	2	220	Magnetic – Rapid Start	86341	GEM240RS220IP	2 – F40T12 F40T10 220V Magnetic Ballast (754LTCP)
	1	120	Electronic – Program / Rapid Start	72110	GE140RS120-DIY	1 – F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
	3	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120-277	Electronic – Program / Rapid Start	24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	2	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	277	Magnetic – Rapid Start	86124	GEM240RS277IP	2 – F40T12 RS 277V Magnetic Ballast (443LSLHTCP)
	2	120	Electronic – Program / Rapid Start	97498	GE240RS120	2 F40 or F34T12 Rapid Start Electronic 120V "N" BF
	2	120	Electronic – Program / Rapid Start	97498	GE240RS120	2 F40 or F34T12 Rapid Start Electronic 120V "N" BF
	2	120	Magnetic – Rapid Start	89710	GEM240HRS120DIY	2 – F40T12 F40T12 120V Magnetic Ballast (420LTCP)
	2	120	Magnetic – Rapid Start	86139	GEM240RS120IP	2 – F40T12 RS 120V Magnetic Ballast (446LSLHTCP)
	1	120-277	Electronic – Program / Rapid Start	24107	GE-240-RS-MV-N	2 or 1 – F40 or F34T12 Rapid Start 120 to 277 "N" BF ProLine® T12
	1	120	Electronic – Program / Rapid Start	72110	GE140RS120-DIY	1 F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
	1	120	Magnetic – Rapid Start	89714	GEM140HRS120DIY	1 – F40T12 F40T12 120V Magnetic Ballast (412LSLHTCP)
	1	120	Magnetic – Rapid Start	89709	GEM140RS120DIY	1 – F40T12 F30T12 F48/25W 120V Magnetic Ballast (413CTCP)
	1	120	Electronic – Program / Rapid Start	72110	GE140RS120-DIY	1 – F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
F40T12/WM	2	277	Magnetic – Rapid Start	86124	GEM240RS277IP	2 – F40T12 RS 277V Magnetic Ballast (443LSLHTCP)
	2	120	Magnetic – Rapid Start	86139	GEM240RS120IP	2 – F40T12 RS 120V Magnetic Ballast (446LSLHTCP)
F40T12/WMP	3	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120-277	Electronic – Program / Rapid Start	24109	GE-340-RS-MV-N	3 or 2 – F40 or F34T12 Rapid Start 120 to 277 ProLine® T12
	2	120	Magnetic – Rapid Start	89710	GEM240HRS120DIY	2 – F40T12 F40T12 120V Magnetic Ballast (420LTCP)
	1	120	Magnetic – Rapid Start	89714	GEM140HRS120DIY	1 – F40T12 F40T12 120V Magnetic Ballast (412LSLHTCP)
F40T8	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71423	GE432MAX-N+	4 or 3 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71422	GE332MAX-N+	3 or 2 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49766	GE159MAX-N/ULTRA	1 – F96T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49775	GE232MAX-H/ULTRA	2 or 1 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	71421	GE232MAX-N+	2 or 1 – F32T8 120 to 277 "N+" 1.0 BF UltraMax®
	1	120	Electronic – Standard Instant Start	23671	GE-232-120-N	2 or 1 – F32T8 120V "N" .87 BF ProLine®
	3	120-277	Electronic – High Efficiency Multivolt Instant Start	71723	GE432MAX-H/ULTRA	4 or 3 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	3	120-277	Electronic – Multivolt Instant Start	30219	GE-432-MV-H	4 or 3 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30262	GE-432-MV-L	4 or 3 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	120-277	Electronic – Multivolt Instant Start	30193	GE-432-MV-N	4 or 3 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	3	277	Electronic – Standard Instant Start	23676	GE-432-277-N	4 or 3 – F32T8 277V "N" .87 BF ProLine®
	3	120	Electronic – Standard Instant Start	23675	GE-432-120-N	4 or 3 – F32T8 120V "N" .87 BF ProLine®
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 – F96T8 120 to 277 "N" .87 BF UltraMax®
	2	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
	2	120-277	Electronic – High Efficiency Multivolt Instant Start	71714	GE332MAX-H/ULTRA	3 or 2 – F32T8 120 to 277 "H" 1.15 BF UltraMax®
	2	120-277	Electronic – Multivolt Instant Start	30199	GE-332-MV-H	3 or 2 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	30255	GE-332-MV-L	3 or 2 – F32T8 120 to 277 "L" .77 BF Multivolt ProLine®
	2	120-277	Electronic – Multivolt Instant Start	30192	GE-332-MV-N	3 or 2 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	277	Electronic – Standard Instant Start	23674	GE-332-277-N	3 or 2 – F32T8 277V "N" .87 BF ProLine®
	2	120	Electronic – Standard Instant Start	23673	GE-332-120-N	3 or 2 – F32T8 120V "N" .87 BF ProLine®

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F40T8 (cont)	1	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	30198	GE-232-MV-H	2 or 1 – F32T8 120 to 277 "H" 1.15 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72273	GE-232-MV-L	2 or 1 – F32T8 120 to 277 "L".77 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Multivolt Instant Start	72275	GE-232-MV-N	2 or 1 – F32T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 – F96T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
	1	277	Electronic – Standard Instant Start	23672	GE-232-277-N	2 or 1 – F32T8 277V "N" .87 BF ProLine®
F48T12	2	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
	2	277	Magnetic – Standard Instant Start	86379	GEM296IS277IP	2 – F96T12 IS 277V Magnetic Ballast (827SLHTCP)
	2	120	Magnetic – Standard Instant Start	86360	GEM296IS120IP	2 – F96T12 IS 120V Magnetic Ballast (806SLHTCP)
	1	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
F48T12/25W	1	120	Electronic – Program / Rapid Start	72110	GE140RS120-DIY	1 F40 or F34T12 Rapid Start Electronic 120V "N" BF DIY Pack
	1	120	Magnetic – Rapid Start	89709	GEM140RS120DIY	1 – F40T12 F30T12 F48/25W 120V Magnetic Ballast (413CTCP)
F48T12/HO	2	120-277	Electronic – Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 – F96T12 HO RS 120 to 277 Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 – F96T12 HO RS 120 to 277 Multivolt ProLine®
F48T8/HO	2	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
	1	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
F4T5	1	277	Magnetic – Preheat	87634	GEM1CFS79PH277	1 – CFTS79Q9W/G23 Preheat 277 (4205F2P)
F54T5/HO	4	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	4	120-277	Electronic – Program / Rapid Start	29726	GE454MVPSN1	4,3,2 or 1 – F54T5HO 120-277V UltraStart® PRS Stick Can
	3	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	3	120-277	Electronic – Program / Rapid Start	29726	GE454MVPSN1	4,3,2 or 1 – F54T5HO 120-277V UltraStart® PRS Stick Can
	2	120-277	Electronic – Program / Rapid Start	47542	B254PUNV-DGE1C	2 – F54T5HO PRS UNV 50/60 Hz
	2	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can
	2	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	2	120-277	Electronic – Program / Rapid Start	29726	GE454MVPSN1	4,3,2 or 1 – F54T5HO 120-277V UltraStart® PRS Stick Can
	1	120-277	Electronic – Program / Rapid Start	47542	B254PUNV-DGE1C	2 – F54T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can
	1	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	1	120-277	Electronic – Program / Rapid Start	29726	GE454MVPSN1	4,3,2 or 1 – F54T5HO 120-277V UltraStart® PRS Stick Can
F54T5/WM	4	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	3	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	2	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can
	2	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	1	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can
	1	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
F58T8	4	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	3	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	2	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can
	2	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
	2	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	1	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can
	1	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
	1	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
F60T12	2	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
	1	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
F60T12/HO	2	120-277	Electronic – Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 – F96T12 HO RS 120 to 277 Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	72109	GE296HO-MV-N	2 or 1- F96T12 HO RS 120 to 277 Multivolt ProLine®
F60T8/HO	2	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
	1	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
F64T12	2	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
	1	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
F6T5	1	277	Magnetic – Preheat	87634	GEM1CFS79PH277	1 – CFTS79Q9W/G23 Preheat 277 (4205F2P)
F72T12	2	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
	2	277	Magnetic – Standard Instant Start	86379	GEM296IS277IP	2 – F96T12 IS 277V Magnetic Ballast (827SLHTCP)
	2	120	Magnetic – Standard Instant Start	86360	GEM296IS120IP	2 – F96T12 IS 120V Magnetic Ballast (806SLHTCP)
	1	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
	1	277	Magnetic – Standard Instant Start	86381	GEM196IS277IP	1 – F96T12 IS 277 Magnetic Ballast (828BRTCP)
	1	120	Magnetic – Standard Instant Start	86372	GEM196IS120IP	1 – F96T12 IS 120 Magnetic Ballast (822BRTCP)
F72T12/HO	2	120-277	Electronic – Program / Rapid Start	72109	GE296HO-MV-N	2 or 1- F96T12 HO RS 120 to 277 Multivolt ProLine®
	2	277	Electronic – Program / Rapid Start	80163	B295SR277HP	2 – F96T12HOES RS 277
	2	277	Magnetic – Rapid Start	86171	GEM296HORS277IP	2 – F96T12HO RS 277V Magnetic Ballast (487SLHTCP)
	2	120	Electronic – Standard Instant Start	80664	493B2	2 – F73T12/BL/HO Suntan 120 Magnetic Ballast
	2	120	Electronic – Program / Rapid Start	80162	B295SR120HP	2 – F96T12HOES RS 120

Ballast

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F72T12/HO (cont)	2	120	Magnetic – Rapid Start	86164	GEM296HORS120IP	2 – F96T12HO F72T12HO RS 120V Magnetic Ballast (480SLHTCP)
	2	120-277	Electronic – Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 – F96T12 HO RS 120 to 277 Multivolt ProLine®
F72T8	2	120-277	Electronic – High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 – F96T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 – F96T8 120 to 277 "N" .87 BF UltraMax®
F72T8/HO	2	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
	1	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
F73T12/HO	2	120	Electronic – Standard Instant Start	80664	493B2	2 – F73T12/BL/HO Suntan 120 Magnetic Ballast
F84T12	2	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
	1	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
F84T12/HO	2	277	Electronic – Program / Rapid Start	80163	B295SR277HP	2 – F96T12HOES RS 277
	2	120	Electronic – Program / Rapid Start	80162	B295SR120HP	2 – F96T12HOES RS 120
F8T5	1	277	Magnetic – Preheat	87634	GEM1CF579PH277	1 – CFT579Q9W/G23 Preheat 277 (4205F2P)
F8T9	1	120	Electronic – Program / Rapid Start	97498	GE240RS120	2 F40 or F34T12 Rapid Start Electronic 120V "N" BF
F96T12	2	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
	2	277	Magnetic – Standard Instant Start	86379	GEM296IS277IP	2 – F96T12 IS 277V Magnetic Ballast (827SLHTCP)
	2	120	Magnetic – Standard Instant Start	86360	GEM296IS120IP	2 – F96T12 IS 120V Magnetic Ballast (806SLHTCP)
	1	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
	1	277	Magnetic – Standard Instant Start	86381	GEM196IS277IP	1 – F96T12 IS 277 Magnetic Ballast (828BRTCP)
	1	120	Magnetic – Standard Instant Start	86372	GEM196IS120IP	1 – F96T12 IS 120 Magnetic Ballast (822BRTCP)
F96T12/HO	1	120-277	Electronic – Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 – F96T12 HO RS 120 to 277 Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 – F96T12 HO RS 120 to 277 Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	72109	GE296HO-MV-N	2 or 1- F96T12 HO RS 120 to 277 Multivolt ProLine®
	2	277	Electronic – Program / Rapid Start	80163	B295SR277HP	2 – F96T12HOES RS 277
	2	277	Magnetic – Rapid Start	86171	GEM296HORS277IP	2 – F96T12HO RS 277V Magnetic Ballast (487SLHTCP)
	2	120	Electronic – Program / Rapid Start	80162	B295SR120HP	2 – F96T12HOES RS 120
	2	120	Magnetic – Rapid Start	86164	GEM296HORS120IP	2 – F96T12HO F72T12HO RS 120V Magnetic Ballast (480SLHTCP)
	1	120-277	Electronic – Program / Rapid Start	72109	GE296HO-MV-N	2 or 1- F96T12 HO RS 120 to 277 Multivolt ProLine®
F96T12/HO/WM	2	120-277	Electronic – Program / Rapid Start	72109	GE296HO-MV-N	2 or 1 – F96T12 HO RS 120 to 277 Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	72109	GE296HO-MV-N	2 or 1- F96T12 HO RS 120 to 277 Multivolt ProLine®
F96T12/WM	2	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
	2	277	Magnetic – Standard Instant Start	86379	GEM296IS277IP	2 – F96T12 IS 277V Magnetic Ballast (827SLHTCP)
	2	120	Magnetic – Standard Instant Start	86360	GEM296IS120IP	2 – F96T12 IS 120V Magnetic Ballast (806SLHTCP)
	1	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
	1	277	Magnetic – Standard Instant Start	86381	GEM196IS277IP	1 – F96T12 IS 277 Magnetic Ballast (828BRTCP)
	1	120	Magnetic – Standard Instant Start	86372	GEM196IS120IP	1 – F96T12 IS 120 Magnetic Ballast (822BRTCP)
F96T12/WMP	2	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
	1	120-277	Electronic – Multivolt Instant Start	24108	GE-260-IS-MV-N	2 or 1 – F96T12 Instant Start 120 to 277
F96T8	2	120-277	Electronic – High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 – F96T8 120 to 277 "N" .87 BF UltraMax®
	2	120-277	Electronic – Multivolt Instant Start	30194	GE-259-MV-N	2 or 1 – F96T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
	2	277	Electronic – Standard Instant Start	23678	GE-259-277-N	2 or 1 – F96T8 277v "N" .87 BF ProLine®
	2	120	Electronic – Standard Instant Start	23677	GE-259-120-N	2 or 1 – F96T8 120v Normal Light .87 BF ProLine®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49766	GE159MAX-N/ULTRA	1 – F96T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	30195	GE-159-MV-N	1 – F96T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 – F96T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	30194	GE-259-MV-N	2 or 1 – F96T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
	1	277	Electronic – Standard Instant Start	23678	GE-259-277-N	2 or 1 – F96T8 277v "N" .87 BF ProLine®
	1	120	Electronic – Standard Instant Start	23677	GE-259-120-N	2 or 1 – F96T8 120v Normal Light .87 BF ProLine®
F96T8/HO	2	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
	1	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
F96T8/HO/WM	2	277	Electronic – Program / Rapid Start	80163	B295SR277HP	2 – F96T12HOES RS 277
	2	277	Magnetic – Rapid Start	86171	GEM296HORS277IP	2 – F96T12HO RS 277V Magnetic Ballast (487SLHTCP)
	2	120	Electronic – Program / Rapid Start	80162	B295SR120HP	2 – F96T12HOES RS 120
	2	120	Magnetic – Rapid Start	86164	GEM296HORS120IP	2 – F96T12HO F72T12HO RS 120V Magnetic Ballast (480SLHTCP)
F96T8/WM	2	120-277	Electronic – High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 – F96T8 120 to 277 "N" .87 BF UltraMax®
	2	120-277	Electronic – Multivolt Instant Start	30194	GE-259-MV-N	2 or 1 – F96T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
	2	277	Electronic – Standard Instant Start	23678	GE-259-277-N	2 or 1 – F96T8 277v "N" .87 BF ProLine®
	2	120	Electronic – Standard Instant Start	23677	GE-259-120-N	2 or 1 – F96T8 120v Normal Light .87 BF ProLine®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49766	GE159MAX-N/ULTRA	1 – F96T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	30195	GE-159-MV-N	1 – F96T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 – F96T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	30194	GE-259-MV-N	2 or 1 – F96T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Linear Fluorescent Lamps (continued)						
F96T8/WM (cont)	1	277	Electronic – Standard Instant Start	23678	GE-259-277-N	2 or 1 – F96T8 277v "N" .87 BF ProLine®
	1	120	Electronic – Standard Instant Start	23677	GE-259-120-N	2 or 1 – F96T8 120v Normal Light .87 BF ProLine®
F96T8/WMP	2	120-277	Electronic – High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 – F96T8 120 to 277 "N" .87 BF UltraMax®
	2	120-277	Electronic – Multivolt Instant Start	30194	GE-259-MV-N	2 or 1 – F96T8 120 to 277 "N" .87 BF Multivolt ProLine®
	2	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
	2	277	Electronic – Standard Instant Start	23678	GE-259-277-N	2 or 1 – F96T8 277v "N" .87 BF ProLine®
	2	120	Electronic – Standard Instant Start	23677	GE-259-120-N	2 or 1 – F96T8 120v Normal Light .87 BF ProLine®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49766	GE159MAX-N/ULTRA	1 – F96T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	30195	GE-159-MV-N	1 – F96T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – High Efficiency Multivolt Instant Start	49767	GE259MAX-N/ULTRA	2 or 1 – F96T8 120 to 277 "N" .87 BF UltraMax®
	1	120-277	Electronic – Multivolt Instant Start	30194	GE-259-MV-N	2 or 1 – F96T8 120 to 277 "N" .87 BF Multivolt ProLine®
	1	120-277	Electronic – Program / Rapid Start	30176	GE-286-HO-MV-N	2 or 1 – F96T8HO IS 120 to 277 "N" .87 BF
	1	277	Electronic – Standard Instant Start	23678	GE-259-277-N	2 or 1 – F96T8 277v "N" .87 BF ProLine®
	1	120	Electronic – Standard Instant Start	23677	GE-259-120-N	2 or 1 – F96T8 120v Normal Light .87 BF ProLine®
Circline Fluorescent Lamps						
FC12T5HO	4	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	3	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	2	120-277	Electronic – Program / Rapid Start	47542	B254PUNV-DGE1C	2 – F54T5HO PRS UNV 50/60 Hz
	2	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	2	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can
	1	120-277	Electronic – Program / Rapid Start	47542	B254PUNV-DGE1C	2 – F54T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	1	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can
FC12T9	2	120	Electronic – Rapid Start	89717	GEM1FC12T9RS120	2 FC12T9 RS 120V Magnetic Ballast (449LRWSTCP)
	2	120	Electronic – Program / Rapid Start	97498	GE240RS120	5 – F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12
	1	120	Electronic – Program / Rapid Start	97498	GE240RS120	4 – F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12
	1	120	Magnetic – Rapid Start	89720	GEM1FC16T9RS120	2 – FC12T9 FC16T9 FC8T9 FC12T9 120V Magnetic (726VLHWSTCP)
FC16T9	1	120	Electronic – Program / Rapid Start	97499	GE240RS120	3 – F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12
	1	120	Magnetic – Rapid Start	89720	GEM1FC16T9RS120	2 – FC12T9 FC16T9 FC8T9 FC12T9 120V Magnetic (726VLHWSTCP)
	1	120-277	Electronic – Program / Rapid Start	71444	GEC226-MVPS-XX	2 – CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71445	GEC226-MVPS-3W	2 – CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
FC6T9	1	120	Magnetic – Rapid Start	86227	GEM1FC8T9RS120IP	1 – FC8T9 RS 120V Magnetic Ballast (547RSWSTCP)
FC8T9	2	120	Electronic – Rapid Start	89717	GEM1FC12T9RS120	2 FC12T9 RS 120V Magnetic Ballast (449LRWSTCP)
	1	120	Magnetic – Rapid Start	86227	GEM1FC8T9RS120IP	1 – FC8T9 RS 120V Magnetic Ballast (547RSWSTCP)
Compact Fluorescent Lamps						
CFM36W/2G10	2	120-277	Electronic – Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	1	120-277	Electronic – Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
CFM42W	2	120-277	Electronic – Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	1	120-277	Electronic – Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
CFM57W	1	120-277	Electronic – Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
CFM70W	1	120-277	Electronic – Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
CFQ13W/2P	2	277	Magnetic – Preheat	87655	GEM2CF13PH277	2 – CFT/Q13W/GX23 Preheat 277 (4214PBES)
	1	120	Magnetic – Preheat	87533	GEM1CF13PH120	1 – CFT/Q13W/GX23 Preheat 120 (4111H2P)
CFQ13W/G24q	2	120-277	Electronic – Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 – CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	2	120-277	Electronic – Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 – CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 – CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	1	120-277	Electronic – Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 – CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
CFQ18W/G24q	1	120-277	Electronic – Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 – CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	1	120-277	Electronic – Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 – CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
	2	120-277	Electronic – Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 – CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	2	120-277	Electronic – Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 – CFQ18W/G24q Bottom Exit 120-277 ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 – CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	1	120-277	Electronic – Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 – CFQ18W/G24q Bottom Exit 120-277 ProLine® PS
CFQ26W/ZP	2	277	Magnetic – Preheat	87700	GEM2CF24PH277	2 – CFQ26W/G24d Preheat 277 (4226PBES)
CFQ26W/G24q	2	120-277	Electronic – Program / Rapid Start	47506	C24ZUNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	2	120-277	Electronic – Program / Rapid Start	71445	GEC226-MVPS-3W	2 – CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	2	120-277	Electronic – Program / Rapid Start	71444	GEC226-MVPS-XX	2 – CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 – CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	1	120-277	Electronic – Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 – CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	1	120-277	Electronic – Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 – CFQ18W/G24q Bottom Exit 120-277 ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 – CFQ18W/G24q Bottom Exit 120-277 ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71445	GEC226-MVPS-3W	2 – CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71444	GEC226-MVPS-XX	2 – CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
CFS16W/GR10q	2	120-277	Electronic – Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 – CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	2	120-277	Electronic – Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 – CFQ13W/G24q Bottom Exit 120-277V ProLine® PS

Ballast

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Compact Fluorescent Lamps (continued)						
CFS16W/GR10q (cont)	2	120-277	Electronic – Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 – CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	2	120-277	Electronic – Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 – CFQ18W/G24q Bottom Exit 120-277 ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 – CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	1	120-277	Electronic – Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 – CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	1	120-277	Electronic – Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 – CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 – CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
CFS21W/GR10q	2	120-277	Electronic – Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 – CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	2	120-277	Electronic – Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 – CFQ18W/G24q Bottom Exit 120-277 ProLine® PS
	2	120-277	Electronic – Program / Rapid Start	71445	GEC226-MVPS-3W	2 – CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	2	120-277	Electronic – Program / Rapid Start	71444	GEC226-MVPS-XX	2 – CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 – CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	1	120-277	Electronic – Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 – CFQ18W/G24q Bottom Exit 120-277 ProLine® PS
CFS28W/GR10q	2	120-277	Electronic – Program / Rapid Start	47506	C242UNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	1	120-277	Electronic – Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 – CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	1	120-277	Electronic – Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 – CFQ18W/G24q Bottom Exit 120-277 ProLine® PS
CFT13W/2P	2	277	Magnetic – Preheat	87655	GEM2CF13PH277	2 – CFT/Q13W/GX23 Preheat 277 (4214PBES)
	1	120	Magnetic – Preheat	87533	GEM1CF13PH120	1 – CFT/Q13W/GX23 Preheat 120 (4111H2P)
CFT5W/2P	1	277	Magnetic – Preheat	87634	GEM1CF579PH277	1 – CFT579Q9W/G23 Preheat 277 (4205F2P)
CFT7W/2P	1	277	Magnetic – Preheat	87634	GEM1CF579PH277	1 – CFT579Q9W/G23 Preheat 277 (4205F2P)
CFT9W/2P	1	277	Magnetic – Preheat	87634	GEM1CF579PH277	1 – CFT579Q9W/G23 Preheat 277 (4205F2P)
CFTR13W/ GX24q	2	120-277	Electronic – Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 – CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	2	120-277	Electronic – Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 – CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 – CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	1	120-277	Electronic – Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 – CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
CFTR18W/GX24q	2	120-277	Electronic – Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 – CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	2	120-277	Electronic – Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 – CFQ18W/G24q Bottom Exit 120-277 ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71430	GEC213-MVPS-3W	2 or 1 – CFQ13W/G24q 120-277V ProLine® PS 3-Way Kit
	1	120-277	Electronic – Program / Rapid Start	71429	GEC213-MVPS-XX	2 or 1 – CFQ13W/G24q Bottom Exit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71434	GEC218-MVPS-3W	2 or 1 – CFQ18W/G24q 120-277V ProLine® PS 3 Way Kit
	1	120-277	Electronic – Program / Rapid Start	71433	GEC218-MVPS-XX	2 or 1 – CFQ18W/G24q Bottom Exit 120-277 ProLine® PS
CFTR26W/2P	2	277	Magnetic – Preheat	87700	GEM2CF24PH277	2 – CFQ26W/G24d Preheat 277 (4226PBES)
CFTR26W/GX24q	2	120-277	Electronic – Program / Rapid Start	47506	C242UNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	2	120-277	Electronic – Program / Rapid Start	71445	GEC226-MVPS-3W	2 – CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	2	120-277	Electronic – Program / Rapid Start	71444	GEC226-MVPS-XX	2 – CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71445	GEC226-MVPS-3W	2 – CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71444	GEC226-MVPS-XX	2 – CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
CFTR32W/GX24q	2	120-277	Electronic – Program / Rapid Start	47506	C242UNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	1	120-277	Electronic – Program / Rapid Start	71445	GEC226-MVPS-3W	2 – CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71444	GEC226-MVPS-XX	2 – CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
CFTR42W/GX24q	1	120-277	Electronic – Program / Rapid Start	71445	GEC226-MVPS-3W	2 – CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	1	120-277	Electronic – Program / Rapid Start	71444	GEC226-MVPS-XX	2 – CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
FC12T5	2	120-277	Electronic – Program / Rapid Start	47506	C242UNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	1	120-277	Electronic – Program / Rapid Start	47506	C242UNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
FC9T5	2	120-277	Electronic – Program / Rapid Start	47506	C242UNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
FC9T5 & FC12T5	1 & 1	120-277	Electronic – Program / Rapid Start	47506	C242UNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
FT24W/2G10	2	120-277	Electronic – Program / Rapid Start	47534	B224PUNV-COG1C	2 – F24T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	47534	B224PUNV-COG1C	2 – F24T5HO PRS UNV 50/60 Hz
FT24W/2G11	2	120-277	Electronic – Program / Rapid Start	47506	C242UNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	2	120-277	Electronic – Program / Rapid Start	71445	GEC226-MVPS-3W	2 – CFQ26W, FT24 or 1-42W, CFTR32 3 Way Mounting Kit 120-277V ProLine® PS
	2	120-277	Electronic – Program / Rapid Start	71444	GEC226-MVPS-XX	2 – CFQ26W, FT24 or 1-42W, CFTR32 Bottom Exit 120-277V ProLine® PS
FT24W/4P	2	120-277	Electronic – Program / Rapid Start	47534	B224PUNV-COG1C	2 – F24T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	47534	B224PUNV-COG1C	2 – F24T5HO PRS UNV 50/60 Hz
FT39W/4P	4	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	3	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	2	120-277	Electronic – Program / Rapid Start	47540	B239PUNV-DOG1C	2 – F39T5HO PRS UNV 50/60 Hz
	2	120-277	Electronic – Program / Rapid Start	47542	B254PUNV-DGE1C	2 – F54T5HO PRS UNV 50/60 Hz
	2	120-277	Electronic – Program / Rapid Start	47506	C242UNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	2	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can
	2	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	2	120	Electronic – Program / Rapid Start	97498	GE240RS120	6 – F40 or F34T12 Rapid Start 120V "N" BF ProLine® T12
	2	120	Magnetic – Rapid Start	87623	GEM2FT36RS120	2 – FT36W/2G11 RS 120 (4150P)
	1	120-277	Electronic – Program / Rapid Start	47534	B224PUNV-COG1C	2 – F24T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	47534	B224PUNV-COG1C	2 – F24T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	47540	B239PUNV-DOG1C	2 – F39T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	47542	B254PUNV-DGE1C	2 – F54T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can

Lamp Type	# of Lamps	Voltage	Fluorescent Ballast Type	Ballast Order Code	Ballast Description	Fluorescent Ballast Long Description
Compact Fluorescent Lamps (continued)						
FT39W/4P (cont)	1	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
FT40W/4P	3	277	Electronic – Standard Instant Start	80691	C340SI277RH-IP	3 – FT40W/2G11 IS 277
	3	120	Electronic – Standard Instant Start	80690	C340SI120RH-IP	3 – FT40W/2G11 IS 120
	2	120-277	Electronic – Program / Rapid Start	80683	C240PUNVHP-B-IP	2 or 1 – FT40W2G11 PS UNV
	2	277	Electronic – Standard Instant Start	80681	C240SI277RH-IP	2 – FT40W/2G11 IS 277
	2	277	Electronic – Standard Instant Start	80691	C340SI277RH-IP	3 – FT40W/2G11 IS 277
	2	120	Electronic – Standard Instant Start	80680	C240SI120RH-IP	2 – FT40W/2G11 IS 120
	2	120	Electronic – Standard Instant Start	80690	C340SI120RH-IP	3 – FT40W/2G11 IS 120
	2	120	Magnetic – Rapid Start	87625	GEM2FT40RS120	2 – FT40W/2G11RS RS 120 (4152P)
	1	120-277	Electronic – Program / Rapid Start	80683	C240PUNVHP-B-IP	2 or 1 – FT40W2G11 PS UNV
	1	277	Electronic – Standard Instant Start	80681	C240SI277RH-IP	2 – FT40W/2G11 IS 277
	1	120	Electronic – Standard Instant Start	80680	C240SI120RH-IP	2 – FT40W/2G11 IS 120
FT50W/2G11	4	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	3	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	2	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can
	2	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	1	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can
	1	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
FT55W/2G11	4	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	3	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	2	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can
	2	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can
	1	120-277	Electronic – Program / Rapid Start	47542	B254PUNV-DGE1C	2 – F54T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	47542	B254PUNV-DGE1C	2 – F54T5HO PRS UNV 50/60 Hz
	1	120-277	Electronic – Program / Rapid Start	47506	C242UNVBES-IP	2- 42 / 36 / 32 / 26 / 24 watt CFL UNV Bottom Exit w/Studs
	1	120-277	Electronic – Program / Rapid Start	99651	GE254MVPS90-F	2 or 1 – F54T5HO 120 to 277 UltraStart® PRS High Temp F Can
	1	120-277	Electronic – Program / Rapid Start	99649	GE454MVPS90-E	4-1 – F54T5HO 120 to 277 UltraStart® PRS High Temp E Can

Lamp Type	Use with ANSI Lamp Types	Wattage	Order Code	New GE Description	Circuit Type	Frame Size	Voltage	Cap.	Ignitor
High Intensity Discharge (HID) Lamps									
Metal Halide	M110	50	86824	GEM50MLTLC3D-5	HX-HPF	3x4	120/208/240/277	6MFD 280V	MH350-1A
	M148	50	86824	GEM50MLTLC3D-5	HX-HPF	3x4	120/208/240/277	6MFD 280V	MH350-1A
	M143	70	86839	GEM70MLTLC3D-5	HX-HPF	3x4	120/480	8MFD 280V	MH350-1A
	M143	70	86847	GEM70MLTLC3D-5	HX-HPF	3x4	120/208/240/277	8MFD 280V	MH350-1A
	M85	70	86576	11210277CTC000C	HX-HPF	F-Can	120/277	N/A	N/A
	M98	70	86578	11210506CTC000C	HX-HPF	F-Can	120/277	N/A	N/A
	M98	70	86839	GEM70MLTLC3D-5	HX-HPF	3x4	120/480	8MFD 280V	MH350-1A
	M98	70	86847	GEM70MLTLC3D-5	HX-HPF	3x4	120/208/240/277	8MFD 280V	MH350-1A
	M140	100	86667	GEM100MLTLC3D-5	HX-HPF	3x4	120/480	12MFD 280V	MH350-1A
	M140	100	86675	GEM100MLTLC3D-5	HX-HPF	4.25x5.75	120/208/240/277	12MFD 280V	MH350-1A
	M90	100	86574	11210239CTC000I	HX-HPF	F-Can	120/277	N/A	N/A
	M90	100	86667	GEM100MLTLC3D-5	HX-HPF	3x4	120/480	12MFD 280V	MH350-1A
	M90	100	86675	GEM100MLTLC3D-5	HX-HPF	4.25x5.75	120/208/240/277	12MFD 280V	MH350-1A
	M92	100	86667	GEM100MLTLC3D-5	HX-HPF	3x4	120/480	12MFD 280V	MH350-1A
	M92	100	86675	GEM100MLTLC3D-5	HX-HPF	4.25x5.75	120/208/240/277	12MFD 280V	MH350-1A
	M102	150	86711	GEM150MLTLC3D-5	HX-HPF	3x4	120/480	16MFD 280V	MH350-1A
	M102	150	86718	GEM150MLTLC3D-5	HX-HPF	3x4	120/208/240/277	16MFD 280V	MH350-1A
	M107	150	86711	GEM150MLTLC3D-5	HX-HPF	3x4	120/480	16MFD 280V	MH350-1A
	M107	150	86718	GEM150MLTLC3D-5	HX-HPF	3x4	120/208/240/277	16MFD 280V	MH350-1A
	M142	150	86711	GEM150MLTLC3D-5	HX-HPF	3x4	120/480	16MFD 280V	MH350-1A
	M142	150	86718	GEM150MLTLC3D-5	HX-HPF	3x4	120/208/240/277	16MFD 280V	MH350-1A
	M57	175	86563	11102455CTC000I	CWA	F-Can	120/277	N/A	N/A
	M57	175	87210	GEM175MLSAC3-5	CWA	3x4	120/208/240/277/480	10MFD 400V	
	M57	175	86741	GEM175MLTAC3-5	CWA	3x4	120/208/240/277	10MFD 400V	
	M58	250	86564	1110246CTC000C	CWA	F-Can	120/277	N/A	N/A
	M58	250	87211	GEM250MLSAC3-5	CWA	3x4	120/208/240/277/480	15MFD 400V	
	M58	250	87212	GEM250MLSAC4-5	CWA	4.25x4.75	120/208/240/277/480	15MFD 400V	
	M58	250	86765	GEM250MLTAC3-5	CWA	3x4	120/208/240/277	15MFD 400V	
	M59	400	42670	1110-2475C-TC	CWA	F-Can	120/277	N/A	N/A
	M59	400	80728	1111-2475CTC000I	CWA	F-Can	120/277	N/A	N/A
	M59	400	86803	GEM400MLTAC4-5	CWA	4.25x4.75	120/480	24MFD 400V	
	M59	400	72300	GEM400MLSAA4-5	CWA	4.25x4.75	120/208/240/277/480	24MFD 400V	

Ballast

Lamp Type	Use with ANSI Lamp Types	Wattage	Order Code	New GE Description	Circuit Type	Frame Size	Voltage	Cap.	Ignitor
High Intensity Discharge (HID) Lamps (continued)									
Metal Halide (cont)	M59	400	72149	GEM400MLTAA4-5	CWA	4.25x4.75	120/208/240/277	24MFD 400V	
	M47	1000	86650	GEM1000048TAC5-5	CWA	4.25x6.00	120/480	24MFD 480V	
	M47	1000	87213	GEM1000MLSAC5-5	CWA	4.25x6.00	120/208/240/277/480	24MFD 480V	
	M47	1000	86655	GEM1000MLTAC5-5	CWA	4.25x6.00	120/208/240/277	24MFD 480V	
	M48	1500	86693	GEM1500048TAC5-5	CWA	4.25x6.00	120/480	32MFD 525V	
	M48	1500	86698	GEM1500MLTAC5-5	CWA	4.25x6.00	120/208/240/277	32MFD 525V	
Pulse Start	M156	20	87490	GEMH20-MLF-120	eHID	3.7x1.6x1.0 Side Lead	120	N/A	N/A
	M130	39	87501	GEMH39-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	C148	50	87516	GEMH50-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	M110	50	87516	GEMH50-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	M148	50	87516	GEMH50-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	C143	70	87531	GEMH70-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	C143	70	87546	GEMH70-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	M139	70	87531	GEMH70-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	M139	70	87531	GEMH70-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	M143	70	87531	GEMH70-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	M143	70	87546	GEMH70-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	M98	70	87531	GEMH70-MSF-120	eHID	3.7x3.0x1.2 Side Lead	120	N/A	N/A
	M98	70	87546	GEMH70-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	C140	100	87561	GEMH100-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	M140	100	87561	GEMH100-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	M90	100	87561	GEMH100-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	C142	150	87576	GEMH150-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	M102	150	87576	GEMH150-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	M142	150	87576	GEMH150-SLJ-MV	eHID	7.3x2.6x2.2 BE w/Studs	120-277	N/A	N/A
	M137	175	86876	GEP17548TAC3-5	CWA	3x4	120/480	10MFD 400V	MH350-1A
	M137	175	86885	GEP175MLTAC3-5	CWA	3x4	120/208/240/277	10MFD 400V	MH350-1A
	M152	175	86876	GEP17548TAC3-5	CWA	3x4	120/480	10MFD 400V	MH350-1A
	M152	175	86885	GEP175MLTAC3-5	CWA	3x4	120/208/240/277	10MFD 400V	MH350-1A
	CMH250	250	29377	GE-MH-250-400-MA	eHID		208-277	N/A	N/A
	CMH250	250	89646	GEMH250-400MV50	eHID Dim		208-277	N/A	N/A
	M138	250	29377	GE-MH-250-400-MA	eHID		208-277	N/A	N/A
	M138	250	89646	GEMH250-400MV50	eHID Dim		208-277	N/A	N/A
	M138	250	86926	GEP25048TAC4-5	CWA	4.25x4.75	120/480	15MFD 400V	MH350-1A
	M138	250	86935	GEP250MLTAC4-5	CWA	4.25x4.75	120/208/240/277	15MFD 400V	MH350-1A
	M153	250	29377	GE-MH-250-400-MA	eHID		208-277	N/A	N/A
	M153	250	89646	GEMH250-400MV50	eHID Dim		208-277	N/A	N/A
	M153	250	86926	GEP25048TAC4-5	CWA	4.25x4.75	120/480	15MFD 400V	
	M153	250	86935	GEP250MLTAC4-5	CWA	4.25x4.75	120/208/240/277	15MFD 400V	MH350-1A
	CMH320	320	29377	GE-MH-250-400-MA	eHID		208-277	N/A	N/A
	CMH320	320	89646	GEMH250-400MV50	eHID Dim		208-277	N/A	N/A
	M132	320	29377	GE-MH-250-400-MA	eHID		208-277	N/A	N/A
	M132	320	89646	GEMH250-400MV50	eHID Dim		208-277	N/A	N/A
	M132	320	86952	GEP32048TAC4-5	CWA	4.25x4.75	120/480	21MFD 345V	MH350-1A
	M132	320	86959	GEP320MLTAC4-5	CWA	4.25x4.75	120/208/240/277	21MFD 345V	MH350-1A
	M132	320	86968	GEP320TRIAC4-5	CWA	4.25x4.75	120/277/347	21MFD 345V	MH350-1A
	M154	320	29377	GE-MH-250-400-MA	eHID		208-277	N/A	N/A
	M154	320	89646	GEMH250-400MV50	eHID Dim		208-277	N/A	N/A
	M154	320	86952	GEP32048TAC4-5	CWA	4.25x4.75	120/480	21MFD 345V	MH350-1A
	M154	320	86959	GEP320MLTAC4-5	CWA	4.25x4.75	120/208/240/277	21MFD 345V	MH350-1A
	M154	320	86968	GEP320TRIAC4-5	CWA	4.25x4.75	120/277/347	21MFD 345V	MH350-1A
	CMH350	350	29377	GE-MH-250-400-MA	eHID		208-277	N/A	N/A
	CMH350	350	89646	GEMH250-400MV50	eHID Dim		208-277	N/A	N/A
	M131	350	29377	GE-MH-250-400-MA	eHID		208-277	N/A	N/A
	M131	350	89646	GEMH250-400MV50	eHID Dim		208-277	N/A	N/A
	M131	350	86984	GEP350277RCE-5	RX-NPF	3.75x4.5	277	22.5MFD 345V	MH350-1A
	M131	350	86984	GEP350MLTAC4-5	CWA	4.25x4.75	120/208/240/277	22.5MFD 345V	MH350-1A
	CMH400	400	29377	GE-MH-250-400-MA	eHID		208-277	N/A	N/A
	CMH400	400	89646	GEMH250-400MV50	eHID Dim		208-277	N/A	N/A
	M135	400	29377	GE-MH-250-400-MA	eHID		208-277	N/A	N/A
	M135	400	89646	GEMH250-400MV50	eHID Dim		208-277	N/A	N/A
	M135	400	86999	GEP40048TAC4-5	CWA	4.25x4.75	120/480	24MFD 400V	MH350-1A
	M135	400	87008	GEP400MLTAC4-5	CWA	4.25x4.75	120/208/240/277	24MFD 400V	MH350-1A
	M155	400	29377	GE-MH-250-400-MA	eHID		208-277	N/A	N/A
	M155	400	89646	GEMH250-400MV50	eHID Dim		208-277	N/A	N/A
	M155	400	87008	GEP400MLTAC4-5	CWA	4.25x4.75	120/208/240/277	24MFD 400V	MH350-1A

Lamp Type	Use with ANSI Lamp Types	Wattage	Order Code	New GE Description	Circuit Type	Frame Size	Voltage	Cap.	Ignitor
High Intensity Discharge (HID) Lamps (continued)									
Pulse Start (cont)	M155	400	86999	GEP40048TAC4-5	CWA	4.25x4.75	120/480	24MFD 400V	MH350-1A
	M149	750	46936	GEP75048TAC5-5	CWA	4.25x6.00	120/480	24MFD 400V	MH750-1B
	M149	750	46934	GEP750MLTAC5-5	CWA	4.25x6.00	120/208/240/277	24MFD 400V	MH750-1B
	M141	1000	72282	GEP1000MLSAC5-5	CWA	4.25x6.00	120/208/240/277/480	24MFD 480V	HPS1000-4B
	M141	1000	72281	GEP1000MLTAC5-5	CWA	4.25x6.00	120/208/240/277	24MFD 480V	HPS1000-4B
High Pressure Sodium	S68	50	87152	GES50MLTLC3D-5	HX-HPF	3x4	120/208/240/277	5MFD 280V	HPS150-3A
	S62	70	86596	12210237CTC000I	HX-HPF	F-Can	120/277	N/A	N/A
	S62	70	86605	1233142U0001	R-HPF, R-NPF	2.81x3.94	120		
	S62	70	86456	GES7048TLC3D-5	HX-HPF	3x4	120/480	7MFD 300V	HPS150-3A
	S62	70	86587	GES70MLTLC3D-5	HX-HPF	3x4	120/208/240/277	7MFD 300V	HPS150-3A
	S54	100	87068	GES10048TLC3D-5	HX-HPF	3x4	120/480	10MFD 280V	
	S54	100	87074	GES100MLTLC3D-5	HX-HPF	3x4	120/208/240/277	10MFD 280V	HPS150-3A
	S55	150	86606	1233154U0001	R-NPF	2.81x3.94	120		
	S55	150	87087	GES15048TLC3D-5	HX-HPF	3x4	120/480	14MFD 280V	HPS150-3A
	S55	150	87094	GES150MLTLC3D-5	HX-HPF	3x4	120/208/240/277	14MFD 280V	HPS150-3A
	S50	250	87214	GES250MLSAC4-5	CWA	4.25x4.75	120/208/240/277/480	35MFD 240V	HPS400-3A
	S50	250	87121	GES250MLTAC4-5	CWA	4.25x4.75	120/208/240/277	35MFD 240V	HPS400-3A
	S51	400	87198	GES40048TAC4-5	CWA	4.25x4.75	120/480	55MFD 240V	HPS400-3A
	S51	400	87215	GES400MLSAC4-5	CWA	4.25x4.75	120/208/240/277/480	55MFD 240V	HPS400-3A
	S51	400	87164	GES400MLTAC4-5	CWA	4.25x4.75	120/208/240/277	55MFD 240V	HPS400-3A
	S52	1000	87048	GES100048TAC5-5	CWA	4.25x6.00	120/480	26MFD 525V	HPS24
	S52	1000	87218	GES1000MLSAC5-5	CWA	4.25x6.00	120/208/240/277/480	26MFD 525V	HPS1000-4B
	S52	1000	87056	GES1000MLTAC5-5	CWA	4.25x6.00	120/208/240/277	26MFD 525V	HPS1000-4B
Mercury	H39	175	87210	GEM175MLSAC3-5	CWA	3x4	120/208/240/277/480	10MFD 400V	
	H39	175	86741	GEM175MLTAC3-5	CWA	3x4	120/208/240/277	10MFD 400V	
	H37	250	87211	GEM250MLSAC3-5	CWA	3x4	120/208/240/277/480	15MFD 400V	
	H37	250	87212	GEM250MLSAC4-5	CWA	4.25x4.75	120/208/240/277/480	15MFD 400V	
	H37	250	86765	GEM250MLTAC3-5	CWA	3x4	120/208/240/277	15MFD 400V	
	H33	400	86803	GEM40048TAC4-5	CWA	4.25x4.75	120/480	24MFD 400V	
	H33	400	72300	GEM400MLSAA4-5	CWA	4.25x4.75	120/208/240/277/480	24MFD 400V	
	H33	400	72149	GEM400MLTAA4-5	CWA	4.25x4.75	120/208/240/277	24MFD 400V	
	H36	1000	86650	GEM1000048TAC5-5	CWA	4.25x6.00	120/480	24MFD 480V	
	H36	1000	87213	GEM1000MLSAC5-5	CWA	4.25x6.00	120/208/240/277/480	24MFD 480V	
	H36	1000	86655	GEM1000MLTAC5-5	CWA	4.25x6.00	120/208/240/277	24MFD 480V	

LED Lamps and Systems

LED Lamps and Systems

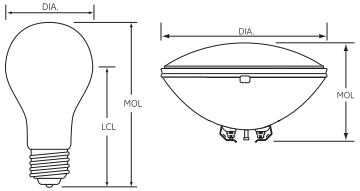
GE believes that financial and environmental responsibility can work hand-in-hand. That's why we designed the GE LED Cove Lighting System to help casinos, hotels, restaurants and retail users create a consistently beautiful look while lowering operating costs and reducing the impact on our environment.

- Improved Energy Usage
  Up to 7 times more efficient than xenon light sources
- Reduced Maintenance Costs
  Fewer lamps to replace and dispose
- Reduced Installation Costs
  Installs quickly and accurately
- Improved Brand Image
  Bright, uniform light that lasts

Bulb Shape	Base Type	Watts	Order Code	Description	Volts	Case Qty	MO (in)	Rated Life (hrs)	Initial Color Temp	CBCP	Lumens Initial	Additional Information
Cove Lighting Systems												
System	Special	6.5	73098	LC12/727/120V	120	10	12.8	50000				
		6.5	73099	LC12/730/120V	120	10	12.8	50000				
		6.5	73100	LC12/727/240V	240	10	12.8	50000				
		6.5	73101	LC12/730/240V	240	10	12.8	50000				
Brackets	–	–	73105	LC-MT48/0		1	48" X 100					0° degree track angle
	–	–	73106	LC-MT48/15		1	48" X 100					15° degree track angle
	–	–	73107	LC-MT48/30		1	48" X 100					30° degree track angle
Cables	–	–	73108	LC-LC/40		1	480.0					Connects cove light to power source
	–	–	73109	LC-JC/3		1	36.0					Connects cove light where needed
Directional Lamps												
MR16	GU10	1.0	73153	LED1GU10/NFL20/CD	120	3	2.2	15000	5500		35	Deco Light
PAR20	MED	7.0	73717	LED7PAR20/SP10	120	6	3.9	20000	3000		200	Accent, 10 degree beam
			73718	LED7PAR20/NFL20	120	6	3.9	20000	3000		200	Accent, 20 degree beam
			73716	LED7PAR20/NFL/CD	120	3	3.9	20000	3000		200	Accent, 20 degree beam

Stage and Studio Lamps

Bulb Identification



DIA: Diameter of bulb at widest point.

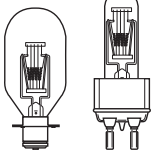
MOL: Maximum Overall Length including base or pins.

LCL: Distance between the center of the arc tube and the Light Center Length reference plane.

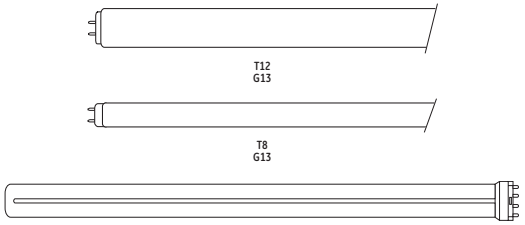
Note: Lamp drawings are not drawn to scale. Be sure to check size and dimension information when identifying each lamp.

To convert inches to millimeters, multiply the dimension (in inches) by 25.4 (i.e. 1.5" x 25.4 = 38.1 mm).

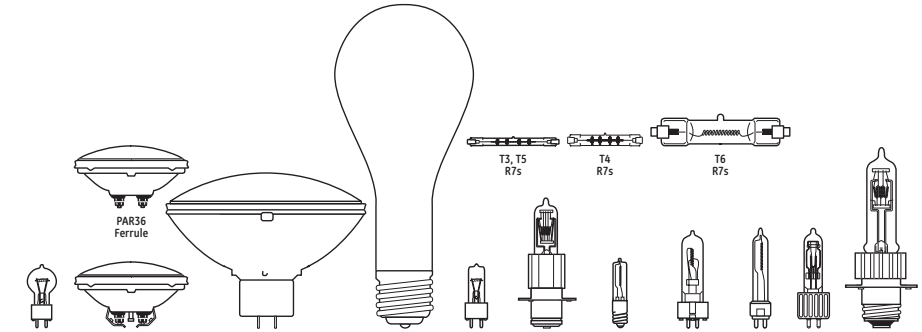
Lamp Locator



Incandescent Lamps

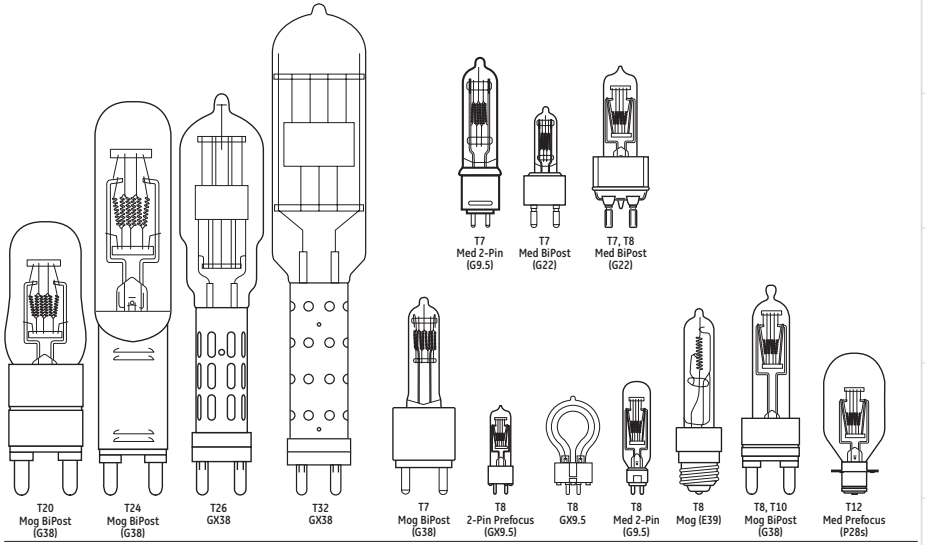


Fluorescent Cinema Lamps

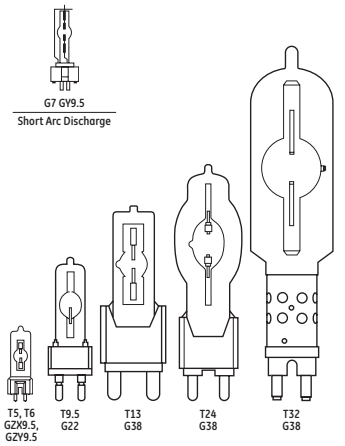


Quartzline® Tungsten Halogen

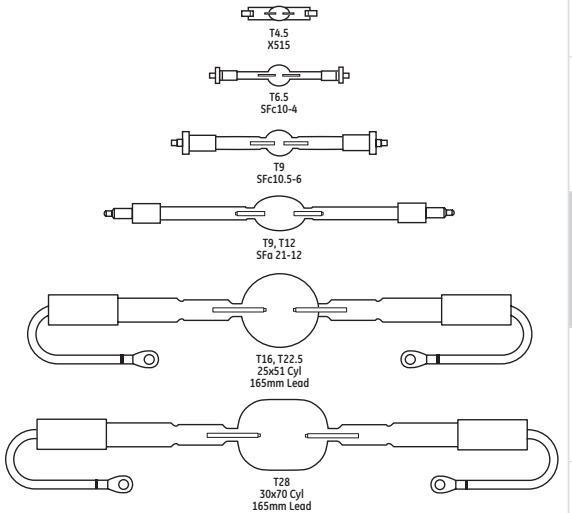
Lamp Locator (continued)



Quartzline® Tungsten Halogen (continued)

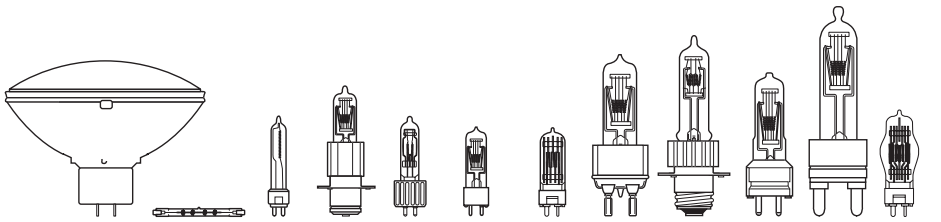


Single-Ended Hot Restrike



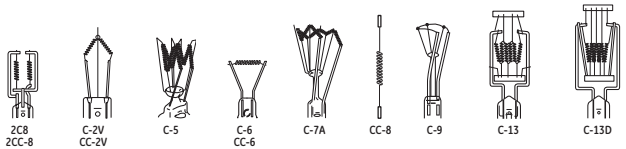
Double-Ended Hot Restrike

Lamp Locator (continued)

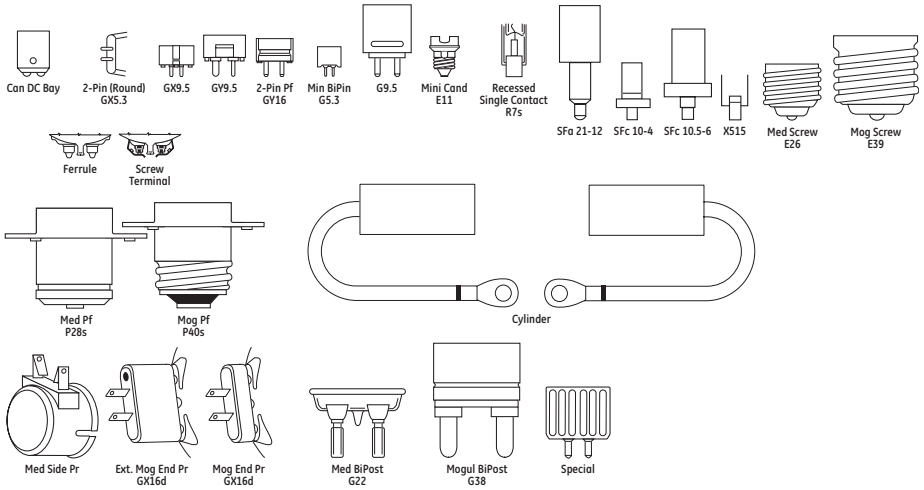


Quartzline® Tungsten Halogen High Voltage

Filament Identification



Base Identification



Introduction

GE has been a leading supplier to stage and studio users for many decades, and continues its pioneering work in the development of new and innovative light sources.

The primary change in recent years has been the migration from glass to quartz as the standard bulb material. The higher melting point of quartz enables bulb envelopes to be reduced in size and the halogen fillings to be run at higher pressures, leading to smaller, lighter, brighter, more energy-efficient and more reliable lamps.

GE's comprehensive range of single- and double-ended lamps is complemented by a group of PAR lamps, where the light source is enclosed in a sealed reflector unit.

The beam patterns of PAR lamps range from very narrow spot to wide-angle floods. This ensures consistency from lamp to lamp, interchangeability to suit the beam pattern needs of the moment and instant replaceability without the need to refocus and re-aim fixtures.

The sealed beam design prolongs the life of the inner lamp as well as protecting it from dust, vapor and other hazards, thereby ensuring high lumen maintenance over the life of the lamp.

PAR lamps may be used with very simple, lightweight, economical fixtures.

General Information

Operational Characteristics

Quartz halogen lamps are designed to be operated within close voltage tolerances, and excessive voltage can lead to drastically shortened life, albeit with significantly higher light output.

A second important variable is temperature. The tungsten halogen cycle does not operate properly below about 482°F (250°C) and quartz may begin to devitrify above about 1832°F (1000°C). Bulb envelopes should therefore be held in the range 482-1472°F (250-800°C).

The contact pins are plated to ensure good electrical connection with the lampholder. However, at temperatures above 350°C, the plating may lose adhesion, leading to deterioration in contact and possibly local hot spots, arcing and consequent irreparable damage to both lamp and holder. Note that if there is evidence that this has occurred, the lampholder should be replaced before the next lamp is fitted, otherwise it is likely to fail prematurely for the same reason.

Lamps normally fail by fusing of the filament. This is often followed by arcing, leading to very high currents which can cause the envelope and seals to fail and the lamp to shatter. A quick-acting, high-breaking capacity fuse should therefore be connected to the supply line in all applications. Suitable types are given in IEC 127, 241 and 269.

Chromised Seal Protection

Many Quartzline® Stage/Studio lamps have a special chromised seal protection, which allows lamp seal temperatures up to 500° C (vs traditional 350° C), which increases life and reliability.

If the package does not have this seal, lamp base temperatures for Quartzline® lamps should not exceed 350°C because, above that point, lead wires in the sealing area will deteriorate, and base cement can loosen, both causing premature lamp failure. Note overvoltaging a lamp will increase the seal heat.

Lamp Codes

GE Stage & Studio lamps are coded as such:

Lamp Description. This may be either an American National Standards Institute (ANSI) three-letter code such as EJG, or a descriptive code in the general form Q750T3/4CL. ANSI codes are assigned to lamp specifications—mechanical, electrical and photometric characteristics—filed with the Institute.

They ensure interchangeability among similarly coded lamps from different manufacturers. Most of these lamps are rated for 120-volt operation. In a few cases a pair of ANSI codes are given (e.g. BFL/BFK), where the first is the official code for the lamp and the second code describes lamps the specifications of which are met or exceeded. In such cases, the lamps may be used to replace lamps with either code.

Base designations conform to IEC standards.

Product Information

GE CSR/CSD Metal Halide Lamps

New GE range of metal halide lamps for use in a variety of applications including TV and film, stage, concerts, photographic and large-screen presentation and color simulation.

- Excellent color rendering Ra >90
- Daylight color temperature, typically 6000K
- Universal burning position
- High efficiency up to 100 Lm/Watt
- Hot restrike and dimmable with stable color temperature
- Superior color stability
- Excellent lumen maintenance
- Use with electronic or AC magnetic ballast/ignitor control gear
- Applications include inside and outside TV and film production, stage, concerts, sporting events, photographic studios, overhead and large-screen projection and color simulation.

GE Cinema Fluorescent Lamps

- High CRI (Color Rendering Index)...traditional fluorescent lamps have not been widely used in photography and film making because of relatively low CRI and the prominent green spike found in typical fluorescent phosphors. GE Lighting Cinema 32 and Cinema 55 lamps have corrected these deficiencies with products that now have a CRI of 95 (out of 100 max.) and colors that respond to the spectral sensitivity curves of film and electronic imaging media.
- Optional Shatter Resistance...GE Cinema 32 and 55 offer the option of GE's exclusive *covRguard*® shatter resistance that helps contain glass fragments if the lamps are broken. Reduce the possibility of glass-related injuries to irreplaceable talent, damage to expensive sets, contamination of delicate equipment or missing critical deadlines because GE offers shatter resistance. GE's covRguard® process wraps the Cinema lamps in a full 15-ml-thick casing of GE's exclusive Lexan® polycarbonate that helps contain the glass, phosphor and chemicals if the lamp is broken. Unlike other shatter-resistant lamps, GE's covRguard® lamps require no assembly.

Product Information (continued)

- Superior Light Output…the GE covRguard® process offers maximum protection with minimal light loss…the lowest loss of initial light of other shielded products.
- Dependable UV Blocking…the GE covRguard® process also offers excellent UV blocking. CovRguard® blocks 98% of the UV that is normally transmitted from an unprotected fluorescent lamp—all UVC, all UVB and most of UVA. This is critical for protecting expensive sets and wardrobe from the fading effects of UV exposure.
- Chromaticity…the Cinema 32 has a chromaticity of X=.415 and Y=.377 with a CRI of 95. The Cinema 32 mixes well with both incandescent and quartz halogen light sources without color corrections. The Cinema 55 is a broad band spectrum daylight lamp with a chromaticity of X=.325 and Y=.321 and a CRI of 96. The Cinema 55 mixes well with ambient daylight and short arc discharge HID light sources without color corrections.

For more detailed information on all GE Stage and Studio lighting order "Showbiz®" 2008, PC 72475 from your GE sales representative.

Headings in this catalog section

The following terms and descriptions can help you when checking Stage/Studio lamp specifications and when ordering products. Within each product line, lamps are divided into families, within these families, lamps are then listed by wattage.

Watts:
Energy used. To find actual energy used (kWh) multiply power (watts shown) x time divided by 1000.

Bulb Shape:
Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch).

Base:
The type of base (ANSI).

Volts:
Lamp data is based on operation at rated voltage.

Order Code:
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

LIF Code:
These are assigned by the Lighting Federation of London, U.K. They ensure electrical and mechanical interchangeability of similarly coded lamps. LIF codes are divided into groups according to the primary application of the lamps.

Description:
The lamp's identification code.

ANSI Codes:
These are 3-letter codes assigned by the American National Standards Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers. General Electric uses the assigned ANSI Codes as Lamp Ordering Codes for most Projection Lamps.

Pack/Case Quantity:
Number of product units packed in a pack or case.

Initial Lumens:
Initial light output.

Approximate MBCP (Maximum Beam Candlepower):
For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

Design Color Temperature – Kelvins (K):
A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value, the whiter or "cooler" the light appears.

Color Rendering Index (CRI):
An indication of the ability of the lamp to render object colors in a normal, natural way. The higher the number (0-100), the better the color appearance.

Filament Type:
Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement.

MOL (in):
Maximum Overall Length in inches.

Light Center Length (LCL):
This dimension defines the location of the filament in relation to the base. It is measured from the geometric center of the filament to a specified point on, or plane through, the base. Light Center Length is subject to manufacturing tolerances. Reference points/planes from which LCL is measured are tabulated on page 8-4 for the various styles of lamp bases.

Beam Spread:
For reflector-type lamps. The total angle of the directed beam (in degrees) to where the intensity of the beam falls to 50% or 10% of the maximum value as indicated.

Rated Life – Hours:
Lamp burning hours to rated life expectancy.

Footnotes and Safety Notices:
See pg 8-12 for information.

Watts	Bulb Shape	Base	Volts	Order Code	LIF Code	Description	ANSI Codes	Pack Qty	Initial Lumens	MBCP	Design Color Temp K	CRI	CIE x	CIE y	Color	Arc Length (mm)	Filament Type	MOL (in)	LCL (in)	Beam Spread 50% H	Beam Spread 50% V	Rated Life (hrs)	Burning Position	Footnotes and Safety Notices
Quartzline® Tungsten Halogen																								
500	T6	Med Pf (P28s)	120	**11966**	T17	BTL-Q500 T6/CL/P		6	5500		3200						CC-2V	2.43	1.37			50		12

BTL- Q500 T6/CL/P

- BTL: Identifies the lamp ANSI code.
- Q500: Identifies the lamp's wattage. Q=Quartz Halogen
- T6/CL/P: Identifies the lamp shape and the bulb diameter in eighths of inches.

WHEN YOU DON'T KNOW THE LAMP DESCRIPTION

1. Identify bulb shape by using tables on page 8-2.
2. Measure bulb diameter using ruler in Appendix section page A-1 to determine width in eighths of an inch.
3. Identify base type using table on page 8-4.
4. Find your lamp in the table containing the bulb shape, size and base.

For the most up-to-date product information, see www.gelighting.com.

Watts	Bulb Shape	Base	Volts	Order Code	LIF Code	Description	ANSI Code	Pack Qty	Initial Lumens	Design Color Temp K	Rated Life (hrs)	Filament Type	MOL (in)	Burning Position	Footnotes and Safety Notices
Halogen Double-Ended															
300	T-4	R7s	120	43705		Q300T4/CL	EHP	6	5650	2900	2000	CC-8	3.13	Any	62
	T-3			43703		Q300T3/CL	EHM	6	5950	2950	2000	C-8	4.69	H4	62
				43704		Q300T3	EHZ	6	5900	2950	2000	C-8	4.69	H4	62,15
350	T-2			20881		FDF/HIR-Q350T2/4CL		6	13250	3200	400	C-8	4.69	H4	62
	T-3			13894		Q350T3/HIR		6	10000	3000	2000	C-8	4.69	H4	62
375	T-4		30	29578	A1/266	DWZI30V)	DWZ	24	7500	3000	1000	CC-8	3.13	Any	62
420	T-4		120	30276		FFM	FFM	24	11000	3200	75	CC-8	3.13	Any	62
500	T-3			23731		Q500T3/CL	FCL	12	11100	3000	2000	C-8	4.69	H4	62
				23744		Q500T3/CL/6		12	10950	2950	1500	C-8	4.69	H4	62
				23735	P2/30	FDF-Q500T3/4CL	FDF	12	13250	3200	400	C-8	4.69	H4	62
				23734	P2/31	FDN-Q500T3/4	FDN	12	12800	3200	400	C-8	4.69	H4	62,15
			130	23733		Q500T3/CL	DVS	12	10550	3000	2000	C-8	4.69	H4	62
600	T-4		120	29598	A1/228	FCB	FCB	24	17000	3250	75	CC-8	3.75	Any	62,4
650	T-4			30325	P2/6	FAD-Q650T4/4CL	FAD	24	16500	3200	100	CC-8	3.13	Any	62
				30343	P2/6	FBX-Q650T4/4	FBX	24	16500	3200	100	CC-8	3.13	Any	62,15
	T-3			13895	–	FCM/HIR-Q650T3/4	FCM	6	25200	3275	400	C-8	4.69	H4	62,52
675	T-3			20884	–	FFT/HIR-Q675T3/4	–	6	26400	3250	400	C-8	6.56	H4	62,52
750	T-3			23756	–	EJG-Q750T3/4CL	EJG	12	20600	3200	400	C-8	4.69	H4	62
				23755	–	EMD-Q750T3/4	EMD	12	19500	3200	400	C-8	4.69	H4	62,15
800	T-4		230	36952	P2/13	DXX	DXX	24	21400	3200	75	CC-8	3.13	Any	62
			240	36953	P2/13	DXX	DXX	24	21400	3200	75	CC-8	3.13	Any	62
1000	T-5		120	30157		DXW-Q1000T5/4CL	DXW	24	28000	3200	150	CC-8	3.75	Any	62,27
				30374		FBY-Q1000T5/4	FBY	24	26000	3200	150	CC-8	3.75	Any	62,15
				29604		BRH	BRH	24	30000	3350	75	CC-8	3.75	Any	62
	T-6			23800		DWT-Q1000T6/CL	DWT	6	23400	3000	2000	CC-8	5.63	Any	62
				33760		FER-Q1000T6/4CL	FER	6	27500	3200	500	CC-8	5.63	Any	62
	T-3			23797	P2/28	FCM-Q1000T3/4CL	FCM	12	28000	3200	400	C-8	4.69	H4	62
				23792	P2/29	FHM-Q1000/T3/4	FHM	12	27300	3200	400	C-8	4.69	H4	62,15,31
				33280	–	FFT-Q1000T3/1CL	FFT	12	26400	3200	400	C-8	6.56	H4	62
			185	23788	–	EJD-Q1000T3/3CL (185V)	EJD	12	33600	3350	100	C-8	4.69	H4	62,52
1500	T-4		120	23841	–	FDB-Q1500T4/4CL	FDB	12	41250	3200	400	C-8	6.56	H4	62
				41229	–	FGT-Q1500T4/4	FGT	12	40200	3200	400	C-8	6.56	H4	62,15
2000	T-10			88629	P2/27	FEY-Q2000T8/4CL	FEY	12	57000	3200	400	CC-8	5.63	H4	62
Halogen Single-Ended															
30	T-3.5	G5.3	10.8	37346		DZA	DZA	24	530	3100	400	C-6	2.00	BDTHCH	62
105	T-4	G5.3	120	19678		FVM	FVM	24	2200	3200	250	CC-8	2.36	Any	62
200	T-4	BA15d		14119		FEV-Q200/4CL/DC	FEV	6	5500	3200	50	CC-2V	2.44	Any	62
		G5.3		19679		FVL	FVL	24	5200	3200	200	CC-8	2.36	Any	62
235	T-4	GZ9.5	33	11548		Q235T4/3		12	6000	3125	150	CC-6	2.50	BDTHCH	62
250	G-6	G5.3	120	13617		EYH/FKT	EYH	24	6000	3000	200	CC-6	2.50	BDTHCH	62
300	T-8	GY9.5		39781	CP81	FKW-Q300T8	FKW	24	6900	3200	50	C-13	3.54	BDTH	62
375	T-6	G9.5/Heat Sink	115	88540		HPL375/C 115V		12	10540	3250	300	4-C8	4.17	Any	62
				88539		HPL375/LL/C 115V		12	8000	3050	1000	4-C8	4.17	Any	62
420	G-7	GY9.5	120	33934		EKB-Q420/4CL/2PP	EKB	24	11000	3200	75	CC-6	2.50	ANYCH	62
500	G-6	G5.3		33663		FBG/FBD	FBG	24	13200	3200	50	CC-6	3.00	ANYCH	62
	T-6	G9.5		88624		EHD-Q500CL/TP	EHD	24	10,000	2900	2000	CC-8	4.13	Any	62
				88628		EHC-Q500/5CL	EHC	24	12,700	3150	500	CC-8	4.13	Any	62
	T-8	GY9.5		88467	CP82	FRG-Q500T8	FRG	24	13000	3200	150	C-13	3.54	BDTH	62
		G22		88509		EGN-Q500T8	EGN	12	13000	3200	150	C-13	5.51	BDTH	62
	T-6	P28s		88547	T17	BTL-Q500T6/CL/P	BTL	12	11000	3000	500	C-13	5.25	BDTH	62
				88546	–	BTM-Q500T6/4CL/2P	BTM	12	13000	3200	150	C-13	5.12	BDTH	62
	T-4	P28s		88617	–	EGE-Q500CL/P	EGE	12	10450	2950	2000	CC-8	6.00	Any	62
				39134	–	EGC-Q500/5CL/P	EGC	12	12700	3150	500	CC-8	6.00	Any	62
550	T-6	G9.5/Heat Sink	77	88534		HPL550/C 77V		12	16170	3250	300	4-C8	4.17	Any	62
575	T-6	G9.5	115	88548		FLK-Q575T6	FLK	24	16500	3200	300	CC-8	4.13	Any	62
				88452		FLK/LL-Q575T6		24	12800	3100	1500	CC-8	4.13	Any	62
				88424		GLA-Q575T6/4CL	GLA	24	13000	3050	1500	C-13D	4.13	Any	62
				88423		GLC-Q575T6/5CL	GLC	24	14500	3200	300	C-13D	4.13	Any	62
		G9.5/Heat Sink		88438		HPL575/C 115V		12	16500	3200	300	4-C8	4.17	Any	62
				88435		HPL575/LL/C 115V		12	12360	3050	2000	4-C8	4.17	Any	62
			120	88436		HPL575/C 120V		12	16520	3200	300	4-C8	4.17	Any	62
				88434		HPL575/LL/C 120V		12	12360	3050	2000	4-C8	4.17	Any	62
			230	88478		HPL575		12	14900	3200	300	6-C8	4.17	Any	62
				88476		HPL575-X LL		12	11780	3050	1500	6-C8	4.17	Any	62

For the most up-to-date product information, see www.gelighting.com. To save energy costs, find the bulbs with the light output you need, then choose the one with the lowest watts. All footnotes and safety notices found at the end of this section (page 8-12).

Stage and Studio Lamps

Watts	Bulb Shape	Base	Volts	Order Code	LIF Code	Description	ANSI Code	Pack Qty	Initial Lumens	Design Color Temp K	Rated Life (hrs)	Filament Type	MOL (in)	Burning Position	Footnotes and Safety Notices
Halogen Single-Ended (continued)															
600	G-7	G5.3	120	30364		DYH	DYH	24	17000	3200	75	CC-6	2.50	ANYCH	62
	T-5	GY9.5		88504		FMR-Q600T5	FMR	24	12600	3050	2000	CC-8	3.35	BDTHCH	62
	G-7	G29.5		32955	A1/264	DYS/DYV/BHC	DYS	24	17000	3200	75	CC-6	2.50	BDTHCH	62
650	G-6	G5.3		30304		DVY	DVY	24	20000	3300	25	CC-6	2.50	BDTHCH	62
		GX9.5		34328		EKD-Q650/3CL/2PP	EKD	24	20000	3300	25	CC-6	2.50	BDTHCH	62
	T-8	GY9.5		88462	CP89	FRK-Q650T8	FRK	24	16900	3200	200	C-13	3.54	BDTH	62
	G-7	G29.5	240	26895	A1/233	DYR	DYR	24	16500	3200	50	2CC-8	2.50	Any	62
750	T-6	G9.5	115	88427		GLD-Q750T6/4CL	GLD	24	19000	3200	300	C-13D	4.13	Any	62
				88426		GLE-Q750T6/4CL	GLE	24	17400	3050	1500	C-13D	4.13	Any	62
		G9.5/Heat Sink		88437		HPL750/C 115V		12	22000	3200	300	4-C8	4.17	Any	62,7
				88428		HPL750/LL/C		12	16400	3050	2000	4-C8	4.17	Any	62,7
		G9.5	120	88626		EHG-Q750CL/TP	EHG	24	15000	3000	2000	CC-8	4.13	Any	62
				88627		EHF-Q750/4CL	EHF	24	20000	3200	300	CC-8	4.13	Any	62
	T-7	G9.5		39680		BWM-Q750T7/4CL/TP	BWM	6	21000	3200	200	C-13D	4.50	BDTH	62,1
		G22		88621		EGR-Q750T7/4CL	EGR	12	21000	3200	200	C-13D	5.00	BDTH	62,1
		P28s		88605	–	BTN-Q750T7/CL/2P	BTN	12	17600	3050	500	C-13D	4.75	BD30	62,1
				88606	–	BTP-Q750T7/4CL/2P	BTP	12	21000	3200	200	C-13D	4.75	BD30	62,1
	T-6	P28s		88619	–	EGG-Q750CL/P	EGG	12	15750	3000	2000	CC-8	6.00	Any	62
				88618	–	EGF-Q750/4CL/P	EGF	12	20400	3200	300	CC-8	6.00	Any	62
		G9.5/Heat Sink	230	88474		HPL750		12	19750	3200	300	6-C8	4.17	Any	62,7
1000	T-6	G9.5	120	88625	CP77	FEL-Q1000/4CL	FEL	24	27500	3200	300	CC-8	4.13	Any	62
	T-7	G9.5		39792		BWN-Q1000T7/4CL/TP	BWN	24	28500	3200	250	C-13D	4.50	BDTH	62,1
		G22		88622		EGT-Q1000T7/4CL	EGT	12	28500	3200	250	C-13D	5.00	BDTH	62,1
		G38		88630		CYV-Q1000T7/4CL/BP	CYV	6	28500	3200	200	C-13D	8.00	BDTH	62,1
	PS-52	E39		39582	–	DKZ/DSE-Q1000PS52/4	DKZ	12	28000	3200	750	CC-8	13.00	Any	1,62,51
	ED-37	E39		19926		DSE/Q1000	DSE	10	28000	3200	750	CC-8	13.00	Any	1,62
	T-7	P28s		88607	–	BTR-Q1000T7/4CL/2P	BTR	12	28500	3200	250	C-13D	4.75	BD30	62,1
	T-20	P28s		29947	A1/58	DRS	DRS	24	28500	3325	25	C-13D	5.75	BD30	
				29968	–	DRB	DRB	24	32000	3350	25	C-13	5.75	BD30	
	T-6	P28s		88615	–	EGJ-Q1000/4/CL/P	EGJ	12	27500	3200	300	CC-8	6.00	Any	62
				88614	–	EGK-Q1000/4/P	EGK	12	26500	3200	300	CC-8	6.00	Any	62
				88620	–	EGM-Q1000CL/P	EGM	12	21500	3000	2000	CC-8	6.00	Any	62
	T-7	P40s		88608	–	BVT-Q1000T7/CL/MP	BVT	6	24500	3050	500	C-13D	7.25	BDTH	62,1
				88631	–	BVV-Q1000T7/4CL/MP	BVV	6	28500	3200	200	C-13D	7.25	BDTH	62,1
	T-6	G9.5	230	39738	CP77	FEP-Q1MT6/4CL	FEP	24	25000	3200	300	CC-8	4.13	Any	62
1200	T-8	G22	80	88439		OC1200		12	37500	3300	300	C-13D	5.51	BDTH	62
1500	T-10	G38	120	88612		CXZ-Q1500T10/4CL	CXZ	6	44500	3200	400	C-13	8.50	BDTH	62,1
	PS-52	E39		40357	–	DKX/DSF-Q1500PS52/4	DKX	12	41000	3200	1000	C-8	13.00	Any	1,62,51
	ED-37	E39		19927		DSF/Q1500	DSF	10	41000	3200	1000	C-8	13.00	Any	1,62
	T-8	P40s		88500	–	DTA-Q1500T8/4CL	DTA	6	41000	3200	300	C-13D	7.87	BDTH	62
2000	T-10	G38		88610		CYX-Q2000T10/4CL	CYX	6	59000	3200	350	C-13	8.50	BDTH	62,1
	T-8	G38		88623		BWA-Q2000/4CL/BP	BWA	6	54000	3200	500	CC-8	8.25	BDTH	62,1,55
		E39		88611	–	BWF-Q2000/4CL	BWF	6	54000	3200	500	CC-8	7.50	Any	62
	T-10	P40s		88609	CP53	BVW-Q2000T10/4CL/MP	BVW	6	59000	3200	350	C-13	8.46	BDTH	62
	G-10	G38	230	31844	CP41	FKK	FKK	12	54000	3200	400	C-13	8.50	BDTH	62
5000	T-20	G38	120	41736	CP29	DPY-Q5000T20/4CL	DPY	6	143000	3200	500	C-13	11.00	BD45	62,1
				22959		HX5000		6	147000	3200	250	C-8	11.02	Any	62
			240	71379		HX5000/240		6	133000	3200	250	C-8	10.62	Any	62
10000	T-24	G38	120	24886	–	DTY-Q10M/T24/4CL	DTY	4	290000	3200	300	C-13	15.75	BD45	62,1
12000	T-26	GX38		48770		Q12MT26/4CL		1	420000	3400	150	C-13	16.13	BD45	62
			230	48771		Q12MT26/4CL		1	420000	3400	130	C-13	16.13	BD45	62
			240	48779		Q12MT26/4CL		1	420000	3400	130	C-13	16.13	BD45	62
20000	T-32	GX38	208	48772		BCM-Q20MT32/4CL	BCM	1	580000	3200	400	C-13	22.05	BD45	62
			230	48773		BCM-Q20MT32/4CL	BCM	1	580000	3200	400	C-13	22.05	BD45	62
			240	48774		BCM-Q20MT32/4CL	BCM	1	580000	3200	400	C-13	22.05	BD45	62
24000	T-32	GX38	230	48776		Q24MT32/4CL		1	800000	3400	150	C-13	22.05	BD45	62
			240	48777		Q24MT32/4CL		1	800000	3400	150	C-13	22.05	BD45	62

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Watts	Bulb Shape	Base	Volts	Description	ANSI Code	LIF Code	Order Code	Pack Qty	MBCP	Design Color Temp K	Beam Spread 50% H	Beam Spread 50% V	MOL (in)	Rated Life (hrs)	Footnotes and Safety Notices
Halogen Sealed Beam															
500	PAR56	Mog End Pr	120	Q500PAR56NSP			43494	6	96000	2950	13	8	5	4000	63
			120	Q500PAR56MFL			43495	6	43000	2950	26	10	5	4000	63
			120	Q500PAR56WFL			43496	6	19000	2950	44	20	5	4000	63
	PAR64	ExMogEndPr	120	500PAR64/NSP			39406	12	110000	2800	12	7	6	2000	64
			120	500PAR64/MFL			39409	12	37000	2800	23	11	6	2000	64
			120	500PAR64/WFL			39412	12	13000	2800	42	20	6	2000	64
			230	Q500PAR64/VNSP		CP86	25492	6	240000	3200	10	7	6	300	63
			230	Q500PAR64/NSP		CP87	25504	6	140000	3200	11	9	6	300	63
			230	Q500PAR64/MFL		CP88	25513	6	65000	3200	21	10	6	300	63
		MogEndPr	230	500PAR64/MFL			39411	12		2700	21	10	6	2000	64
			230	500PAR64/WFL			39414	12		2700	42	20	6	2000	64
		ExMogEndPr	240	Q500PAR64/VNSP		CP86	25493	6	240000	3200	10	7	6	300	63
			240	Q500PAR64/NSP		CP87	25507	6	140000	3200	11	9	6	300	63
			240	Q500PAR64/MFL		CP88	25520	6	65000	3200	21	10	6	300	63
650	PAR36	Ferrule	120	FAY-Q650PAR36/3D	FAY		41668	12	36000	5000	25	15	2.75	30	63
			120	FCW-Q650PAR36/6	FCW		41672	12	9000	3200	60	55	2.75	100	63
			120	FCX-Q650PAR36/7	FCX		41673	12	24000	3200	40	30	2.75	100	63
		Screw Terminals	120	DWE-Q650PAR36/1	DWE		41667	12	24000	3200	40	30	2.75	100	63
			120	FBE-Q650PAR36/5D	FBE		41669	12	36000	5000	25	15	2.75	30	63
			120	FBO-Q650PAR36/5	FBO		41671	12	67000	3400	25	15	2.75	30	63
1000	PAR64	ExMogEndPr	120	FFN-Q1000PAR64/1	FFN		13233	6	400000	3200	12	6	6	800	63
			120	FFP-Q1000PAR64/2	FFP		13229	6	330000	3200	14	7	6	800	63
			120	FFR-Q1000PAR64/5	FFR		13228	6	125000	3200	28	12	6	800	63
			120	FFS-Q1000PAR64/6	FFS		13227	6	40000	3200	48	24	6	800	63
			120	FGM-Q1000PAR64/3	FGM		13226	6	200000	5200	13	6	6	200	63
			120	FGN-Q1000PAR647D	FGN		13225	6	70000	5200	27	11	6	200	63
			120	Q1000PAR64NSP			43497	6	200000	3000	15	8	6	4000	63
			120	Q1000PAR64MFL			43498	6	80000	3000	28	12	6	4000	63
			120	Q1000PAR64/WFL			43499	6	33000	3000	48	24	6	4000	63
			240	EXC-Q1MPAR64CP60	EXC	CP60	88551	6	352000	3200	12	9	6	300	63
			240	EXD-Q1MPAR64CP61	EXD	CP61	88550	6	297000	3200	14	10	6	300	63
			240	EXE-Q1MPAR64CP62	EXE	CP62	88536	6	138000	3200	24	11	6	300	63
1200	PAR64	ExMogEndPr	120	GFB-Q1200PAR64/2	GFB		88486	6	450000	3200	8	10	6	400	63
			120	GFC-Q1200PAR64/1	GFC		88487	6	540000	3200	8	10	6	400	63

Watts	Bulb Shape	Base	Volts	Description	Order Code	Pack Qty	Volts	Initial Lumens	Design Color Temp K	CRI	CIE x	Color y	Arc Length (mm)	Rated Life (hrs)	LCL (in)	MOL (in)	Burning Position	Footnotes and Safety Notices
CSR Metal Halide Lamps																		
Discharge-CSR/CSD (Daylight) Metal Halide Single-Ended Cold Start																		
250	T7	GY9.5	94	CSD250/2/SE	27817	10	94	18000	9000	60+	0.287	0.296	5.5	3000			Any	14,63
575	T9	GX9.5	97	CSR575/2/T/SE	49492	10	97	42000	7200	65+	0.301	0.302	7	1000	2.56	4.92	Any	14,63
			97	CSR575/2/SE	15378	10	97	46000	7200	65+	0.302	0.320	7	1000	2.56	4.92	Any	14,63
700	T9	G22	70	CSR700/2/SE	49491	10	70	55000	7200	70+	0.312	0.325	7.5	1000	2.95	6.10	Any	14,63
1200	T12	G22	100	CSR1200/2/SE	49490	6	100	110000	7200	75+	0.305	0.315	10	800	3.35	6.90	Any	14,63
Discharge-CSR (Daylight) Metal Halide, Single-Ended Short Arc																		
700	G7	GY9.5	70	CSR700/SA	15380	10	70	58000	5600	70+	0.330	0.342	4.3	500	1.53	3.35	Any	14,63
			70	CSR700/SA/72	45234	10	70	58000	7200	70+	0.330	0.342	4.3	500	1.53	3.35	Any	14,63
1200	G8	GY22	100	CSR1200/SA	21849	6	100	96000	5600	75+	0.326	0.330	7.5	750	2.32	5.31	Any	14,63
1800	G9	GY22	100	CSR2000/SA	21801	6	100	155000	6000	75+	0.323	0.329	7.5	750	2.32	5.31	Any	14,63
Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike																		
125	T5	GZX9.5	80	CSR125/SE/HR	48461	10	80	9400	5600	90+	0.323	0.328	4	200	1.53	2.95	Any	14,63
200	T6	GZY9.5	70	CSR200/SE/HR	48462	10	70	15000	5600	90+	0.323	0.328	5	200	1.53	3.15	Any	14,63
400	T7	GZZ9.5	70	CSR400/SE/HR/75	45238	10	70	28000	7500	70+	0.323	0.320	5	1500	2.38	4.32	Any	14,63
			70	CSR400/SE/HR	21853	10	70	32000	6000	85+	0.323	0.320	6.5	750	2.38	4.32	Any	14,63
575	T9.5	G22	95	CSR575/SE/HR	48463	10	95	48000	6000	90+	0.323	0.328	7	750	2.76	5.71	Any	14,63
1200	T13	G38	100	CSR1200/SE/HR	48464	6	100	110000	6000	90+	0.323	0.328	10	750	4.21	7.87	Any	14,63
2500	T19.5	G38	115	CSR2500/SE/HR	48465	6	115	220000	6000	90+	0.323	0.328	14	500	5.00	9.45	Any	14,63
4000	T24	G38	200	CSR4000/SE/HR	48466	6	200	380000	6000	90+	0.323	0.328	24	500	5.59	9.84	Any	14,63
6000	T26.5	G38	130	CSR6000/SE/HR	48467	6	130	540000	6000	90+	0.323	0.328	26	300	8.27	14.17	Any	14,63
12000	T32	G38	160	CSR12000/SE/HR	48468	4	160	1100000	6000	90+	0.323	0.328	28	250	10.04	17.72	Any	14,63
18000	T32	G51	225	CSR18000/SE/HR	22496	1	225	1650000	6000	90+	0.323	0.328	35	250	10.04	18.00	Any	14,63

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Stage and Studio Lamps

Watts	Bulb Shape	Base	Volts	Description	Order Code	Pack Qty	Volts	Initial Lumens	Design Color Temp K	CRI	CIE x	Color y	Arc Length (mm)	Rated Life (hrs)	LCL (in)	MOL (in)	Burning Position	Footnotes and Safety Notices
CSR Metal Halide Lamps (continued)																		
Discharge-CSR (Daylight) Metal Halide, Double-Ended Hot Restrike																		
200	T4.5	X515	80	CSR200/DE	48450	10	80	16000	6000	90+	0.323	0.325	8	300		2.95	H15	14,63
400	T6.5	SFc 10-4 SI/M4	49	CSR400/S/DE/70	22478	10	49	26000	7000	65+	0.305	0.323	3	750		5.43	Any	14,63
			49	CSR400/S/DE/90	45232	10	49	26000	9000	65+	0.305	0.323	3	750		5.43	Any	14,63
575	T6.5		95	CSR575/S/DE/70	70979	10	95	40000	7000	75+	0.307	0.309	7	750		5.43	Any	14,63
			100	CSR575/SS/DE/75	45231	10	100	44000	7500	70+	0.297	0.312	5	500		3.62	Any	14,63
700	T6.5		70	CSR700/S/DE/60	22493	10	70	59000	6000	75+	0.322	0.332	4	750		5.43	Any	14,63
			70	CSR700/S/DE/75	41357	10	70	59000	7500	75+	0.322	0.332	4	750		5.43	Any	14,63
1200	T6.5		100	CSR1200/S/DE/60	22494	10	100	110000	6000	90+	0.323	0.325	7	500		5.43	Any	14,63
			100	CSR1200/S/DE/72	41361	10	100	110000	7200	75+	0.323	0.328	7	750		5.43	Any	14,63
	T8.5	SFc 15.5-6 SI/M6	100	CSR1200/DE	48453	6	100	110000	6000	85+	0.323	0.325	10	750		8.66	H15	14,63
1500	T6.5	SFc 10-4 SI/M4		CSR1500/S/DE/60	96800	10	115	135000	6000	85+	0.326	0.334	7	750		5.43	Any	14,63
2500	T9.5	Sfa21-12	115	CSR2500/DE	48454	6	115	240000	6000	90+	0.323	0.325	14	500		13.98	Any	14,63
4000	T12		200	CSR4000/DE	48455	6	200	410000	6000	90+	0.323	0.325	34	500		15.94	H15	14,63
6000	T16	25X51 Cyl 165mm	125	CSR6000/DE	48456	6	125	570000	6000	90+	0.323	0.325	22	300		17.71	H15	14,63
12000	T22.5	30x70 Cyl 165mm	160	CSR12000/DE	48457	4	160	1100000	6000	90+	0.323	0.325	32	300		18.50	H15	14,63
18000	T28	30x70 Cyl 165mm	225	CSR18000/DE	48459	4	225	1650000	6000	90+	0.323	0.325	45	300		19.68	H15	14,63
			225	CSR18000/S/DE	48460	4	225	1650000	6000	90+	0.323	0.325	45	300		19.68	H15	14,63
Discharge-CSR (Daylight) Metal Halide, Single-Ended Hot Restrike UV Control																		
575	T9.5	G22	95	CSR575/SE/HR/UVC	40460	10	95	49000	5600	80+	0.330	0.325	7	750		5.71	Any	14,63
800	T9.5	G22	95	CSR800/SE/HR/UVC	22495	10	95	64000	5600	90+	0.325	0.327	7	1000		5.71	Any	14,63
1200	T13	G38	100	CSR1200/SE/HRUVC	27764	6	100	110000	5600	90+	0.333	0.333	10	750		7.87	Any	14,63
2500	T19.5	G38	115	CSR2500/SE/HRUVC	40482	6	115	220000	5600	90+	0.330	0.325	14	500		9.45	Any	14,63
4000	T24	G38	200	CSR4000/SE/HRUVC	27765	6	200	380000	5600	90+	0.330	0.325	24	500		10.24	Any	14,63
6000	T26.5	G38	130	CSR6000/SE/HRUVC	40492	6	130	540000	5600	90+	0.333	0.333	26	300		14.17	Any	14,63

Watts	Bulb Shape	Base	Footnotes and Safety Notices	Order Code	Description	Case Qty	Lumens Initial	Design Color Temp K	MOL (in)	Rated Life (hrs)	CRI	Burning Position
Fluorescent Cinema Lighting												
T8 High Output, Clear and covRguard®												
55	T8	G-13 Med BiPin	171	81205	F48T8/CINEMA32	24	2750	3200	48.00	2000	95	Any
			171	81206	F48T8/CINEMA55	24	2750	5500	48.00	2000	97	Any
			171	81207	F48T8/CINEMA32/CVG	24	2750	3200	48.00	2000	95	Any
			171	81208	F48T8/CINEMA55/CVG	24	2750	5500	48.00	2000	97	Any
Standard Cinema												
35	T12	G-13 Med BiPin	171	15712	F20T12/CINEMA32/HO	24	1130	3200	24.00	2000	95	Any
			171	15713	F20T12/CINEMA55/HO	24	1100	5500	24.00	2000	96	Any
60	T12	G-13 Med BiPin	171	15716	F40T12/CINEMA32/HO	30	2900	3200	48.00	2000	95	Any
			171	15717	F40T12/CINEMA55/HO	30	2820	5500	48.00	2000	96	Any
85	T12	G-13 Med BiPin	171	15718	F72T12/CINEMA32/HO	15	4150	3200	72.00	2000	95	Any
			171	15719	F72T12/CINEMA55/HO	15	4050	5500	72.00	2000	96	Any
110	T12	G-13 Med BiPin	171	15720	F96T12/CINEMA32/HO	15	5800	3200	96.00	2000	95	Any
			171	15721	F96T12/CINEMA55/HO	15	5650	5500	96.00	2000	96	Any
Standard Cinema with covRguard®												
35	T12	G-13 Med BiPin	171	15775	F20T12/CINEMA32/HO/CVG	24	1130	3200	24.00	2000	95	Any
			171	15776	F20T12/CINEMA55/HO/CVG	24	1100	5500	24.00	2000	96	Any
60	T12	G-13 Med BiPin	171	15782	F40T12/CINEMA32/HO/CVG	30	2900	3200	48.00	2000	95	Any
			171	15783	F40T12/CINEMA55/HO/CVG	30	2820	5500	48.00	2000	96	Any
85	T12	G-13 Med BiPin	171	15785	F72T12/CINEMA32/HO/CVG	15	4150	3200	72.00	2000	95	Any
			171	15786	F72T12/CINEMA55/HO/CVG	15	4050	5500	72.00	2000	96	Any
110	T12	G-13 Med BiPin	171	15794	F96T12/CINEMA32/HO/CVG	15	5800	3200	96.00	2000	95	Any
			171	15798	F96T12/CINEMA55/HO/CVG	15	5650	5500	96.00	2000	96	Any
Cinema Biax®												
55	T5	2G11-4 PIN	171	41869	F55BX/STUDIOBIAX32	10	4100	3200	21.10	8000	86	Any
			171	41873	F55BX/STUDIOBIAX56	10	4100	5600	21.10	8000	86	Any
			171	41903	F55BX/CINPLUS/32	10	2400	3200	21.10	2000	86	Any
			171	41911	F55BX/CINPLUS/56	10	2400	5600	21.10	2000	86	Any

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ANSI Codes

ANSI Code	Order Code	Volts	Lamp Description
BCM	48772	208	BCM-Q20MT32/4CL
BCM	48773	230	BCM-Q20MT32/4CL
BCM	48774	240	BCM-Q20MT32/4CL
BRH	29604	120	BRH
BTL	11966	120	BTL-Q500T6/CL/P
BTM	16465	120	BTM-Q500T6/4CL/2P
BTN	11953	120	BTN-Q750T7/CL/2P
BTP	11954	120	BTP-Q750T7/4CL/2P
BTR	11955	120	BTR-Q1000T7/4CL/2P
BVT	12554	120	BVT-Q1000T7/CL/MP
BVV	12553	120	BVV-Q1000T7/4CL/MP
BVW	12555	120	BVW-Q2000T10/4CL/MP
BWA	39587	120	BWA-Q2000/4CL/BP
BWF	37086	120	BWF-Q2000/4CL
BWM	39680	120	BWM-Q750T7/4CL/TP
BWN	39792	120	BWN-Q1000T7/4CL/TP
CXZ	37564	120	CXZ-Q1500T10/4CL
CYV	42697	120	CYV-Q1000T7/4CL/BP
CYX	36636	120	CYX-Q2000T10/4CL
DKX	40357	120	DKX/DSF-Q1500PS52/4
DKZ	39582	120	DKZ/DSE-Q1000PS52/4
DPY	41736	120	DPY-Q5000T20/4CL
DRB	29968	120	DRB
DRS	29947	120	DRS
DSE	19926	120	DSE/Q1000
DSF	19927	120	DSF/Q1500
DTA	30522	120	DTA-Q1500T8/4CL
DTY	24886	120	DTY-Q10M/T24/4CL
DVS	23733	130	Q500T3/CL
DVY	30304	120	DVY
DWE	41667	120	DWE-Q650PAR36/1
DWT	23800	120	DWT-Q1000T6/CL
DWZ	29578	30	DWZ(30V)
DXW	30157	120	DXW-Q1000T5/4CL
DXX	36952	230	DXX
DXX	36953	240	DXX
DYH	30364	120	DYH
DYR	26895	240	DYR
DYS	32955	120	DYS/DYV/BHC
DZA	37346	10.8	DZA
EGC	39134	120	EGC-Q500/SCL/P
EGE	39135	120	EGE-Q500CL/P
EGF	39136	120	EGF-Q750/4CL/P
EGG	39137	120	EGG-Q750CL/P
EGJ	38853	120	EGJ-Q1000/4/CL/P
EGK	38852	120	EGK-Q1000/4/P
EGM	39138	120	EGM-Q1000CL/P
EGN	30373	120	EGN-Q500T8
EGR	39190	120	EGR-Q750T7/4CL
EGT	39191	120	EGT-Q1000T7/4CL
EHC	39789	120	EHC-Q500/SCL
EHD	39768	120	EHD-Q500CL/TP
EHF	39771	120	EHF-Q750/4CL
EHG	39770	120	EHG-Q750CL/TP
EHM	43703	120	Q300T3/CL
EHP	43705	120	Q300T4/CL
EHZ	43704	120	Q300T3
EJD	23788	185	EJD-Q1000T3/3CL (185V)
EJG	23756	120	EJG-Q750T3/4CL
EKB	33934	120	EKB-Q420/4CL/2PP
EKD	34328	120	EKD-Q650/3CL/2PP
EMD	23755	120	EMD-Q750T3/4
EXC	10925	240	EXC-Q1MPAR64CP60
EXD	10929	240	EXD-Q1MPAR64CP61
EXE	10931	240	EXE-Q1MPAR64CP62
EYH	13617	120	EYH/FKT
FAD	30325	120	FAD-Q650T4/4CL
FAY	41668	120	FAY-Q650PAR36/3D
FBE	41669	120	FBE-Q650PAR36/5D
FBG	33663	120	FBG/FBD
FBO	41671	120	FBO-Q650PAR36/5
FBX	30343	120	FBX-Q650T4/4
FBY	30374	120	FBY-Q1000T5/4
FCB	29598	120	FCB
FCL	23731	120	Q500T3/CL
FCM	13895	120	FCM/HIR-Q650T3/4
FCM	23797	120	FCM-Q1000T3/4CL
FCW	41672	120	FCW-Q650PAR36/6
FCX	41673	120	FCX-Q650PAR36/7
FDB	23841	120	FDB-Q1500T4/4CL
FDF	23735	120	FDF-Q500T3/4CL
FDN	23734	120	FDN-Q500T3/4
FEL	39769	120	FEL-Q1000/4CL
FEP	39738	230	FEP-Q1MT6/4CL
FER	33760	120	FER-Q1000T6/4CL
FEV	14119	120	FEV-Q200/4CL/DC
FEY	39790	120	FEY-Q2000T8/4CL
FFM	30276	120	FFM
FFN	13233	120	FFN-Q1000PAR64/1
FFP	13229	120	FFP-Q1000PAR64/2
FFR	13228	120	FFR-Q1000PAR64/5
FFS	13227	120	FFS-Q1000PAR64/6
FFT	33280	120	FFT-Q1000T3/1CL
FGM	13226	120	FGM-Q1000PAR64/3
FGN	13225	120	FGN-Q1000PAR647D
FGT	41229	120	FGT-Q1500T4/4
FHM	23792	120	FHM-Q1000/T3/4
FKK	31844	230	FKK
FKW	39781	120	FKW-Q300T8
FLK	11450	115	FLK-Q575T6
FMR	30475	120	FMR-Q600T5
FRG	39623	120	FRG-Q500T8
FRK	39637	120	FRK-Q650T8
FVL	19679	120	FVL
FVM	19678	120	FVM
GFB	34810	120	GFB-Q1200PAR64/2
GFC	34808	120	GFC-Q1200PAR64/1
GLA	93428	115	GLA-Q575T6/4CL
GLC	93429	115	GLC-Q575T6/5CL
GLD	92771	115	GLD-Q750T6/4CL
GLE	92773	115	GLE-Q750T6/4CL

Cross-Reference to New Product Codes

Old Code	New Code	Description
10925	88551	EXC-Q1MPAR64CP60
10929	88550	EXD-Q1MPAR64CP61
10931	88536	EXE-Q1MPAR64CP62
11450	88548	FLK-Q575T6
11953	88605	BTN-Q750T7/CL/2P
11954	88606	BTP-Q750T7/4CL/2P
11955	88607	BTR-Q1000T7/4CL/2P
11966	88547	BTL-Q500T6/CL/P
12553	88631	BVV-Q1000T7/4CL/MP
12554	88608	BVT-Q1000T7/CL/MP
12555	88609	BVW-Q2000T10/4CL/MP
16465	88546	BTM-Q500T6/4CL/2P
17607	88534	HPL550/C 77V
17608	88540	HPL375/C 115V
18189	88539	HPL375/LL/C 115V
30373	88509	EGN-Q500T8
30475	88504	FMR-Q600T5
30522	88500	DTA-Q1500T8/4CL
34808	88487	GFC-Q1200PAR64/1
34810	88486	GFB-Q1200PAR64/2
36636	88610	CYX-Q2000T10/4CL
37086	88611	BWF-Q2000/4CL
37128	88478	HPL575
37564	88612	CXZ-Q1500T10/4CL
37817	88476	HPL575-X LL
37824	88474	HPL750
38852	88614	EGK-Q1000/4/P
38853	88615	EGJ-Q1000/4/CL/P
39135	88617	EGE-Q500CL/P
39136	88618	EGF-Q750/4CL/P
39137	88619	EGG-Q750CL/P
39138	88620	EGM-Q1000CL/P
39190	88621	EGR-Q750T7/4CL
39191	88622	EGT-Q1000T7/4CL
39587	88623	BWA-Q2000/4CL/BP
39623	88467	FRG-Q500T8
39637	88462	FRK-Q650T8
39730	88452	FLK/LL-Q575T6
39768	88624	EHD-Q500CL/TP
39769	88625	FEL-Q1000/4CL
39770	88626	EHG-Q750CL/TP
39771	88627	EHF-Q750/4CL
39789	88628	EHC-Q500/SCL
39790	88629	FEY-Q2000T8/4CL
42697	88630	CYV-Q1000T7/4CL/BP
91580	88439	OC1200
92431	88438	HPL575/C 115V
92432	88437	HPL750/C 115V
92433	88436	HPL575/C 120V
92434	88435	HPL575/LL/C 115V
92435	88434	HPL575/LL/C 120V
92770	88428	HPL750/LL/C
92771	88427	GLD-Q750T6/4CL
92773	88426	GLE-Q750T6/4CL
93428	88424	GLA-Q575T6/4CL
93429	88423	GLC-Q575T6/5CL

For the most up-to-date product information, see www.gelighting.com. To save energy costs, find the bulbs with the light output you need, then choose the one with the lowest watts. All footnotes and safety notices found at the end of this section (page 8-12).

Footnotes and Safety Notices

1 Filament with low noise construction.

2 New Product Code. See cross reference for previous code.

4 Ceramic part of lamp base is slightly larger than similar lamps, thus may not fit in some spring type lamp holders.

7 Pinned base to secure correct application.

14 Enclosed fixture only, per UL Standard 1572. In accordance to Federal Regulations (21CFR1040.30) the following notice applies:

WARNING: This lamp can cause serious skin burn and eye inflammation if the outer envelope is broken or punctured, and the arc tube continues to operate. Do not use where people will remain more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.

15 Apparent lighted length slightly longer than similar clear lamp.

27 Has blackening collector grid on only one side of filament. Unless burned base down, install lamp so grid is above filament.

31 GE lamp is 240 volt; 250 volt lamp specified for Colortran.

51 Silica coated.

52 Rough service. 6 filament supports.

55 Burn BDTH, but avoid horizontal burning with support spine beneath filament to prevent premature arcing.

62 Safety Notice for exposed unshielded lamps (if shielded fixture use footnote 63)

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in enclosed fixture rated for this product

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not touch glass with bare hands
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Operate lamp only in specified position
- Do not exceed 110% of rated voltage

⚠ Caution

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Wear safety glasses and gloves when handling lamp

Lamp emits UV radiation which may cause eye/skin irritation. RG-2.

- Limit unshielded exposure to less than 15 minutes per day

63 Safety Notice for PAR lamps and enclosed, shielded lamps

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass is broken. Remove and dispose of lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken
- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact

⚠ Caution

Risk of burn

- Allow lamp/fixture to cool before handling
- Turn power off before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

64 High Wattage Incandescent Par Lamps

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation, or removal

Risk of fire

- Keep combustible materials away from lamp

Unexpected lamp rupture may cause injury, fire, or property damage

- Avoid direct water/liquid contact
- Use in enclosed fixtures rated for this product

171 Linear Fluorescent

⚠ Warning

Risk of electrical shock

- Turn power off before inspection, installation, or removal

⚠ Caution

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Dispose of lamp in closed container

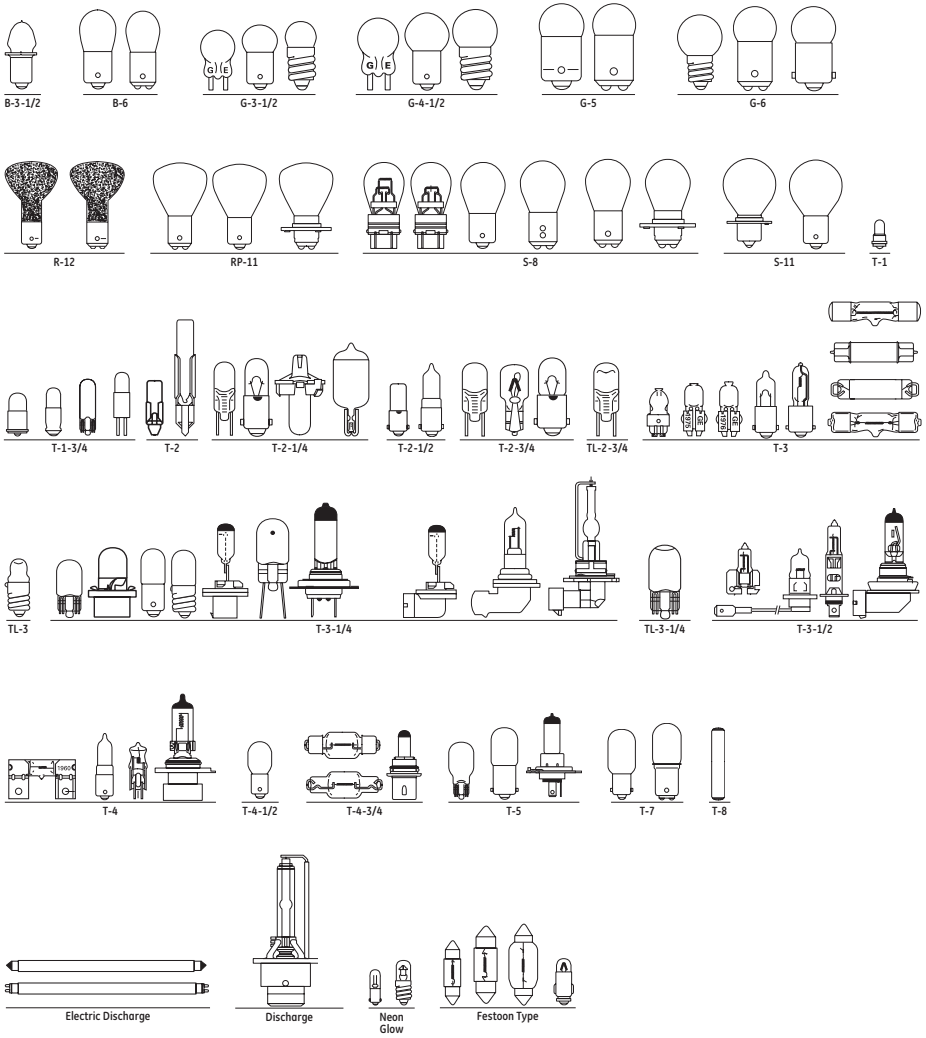
Burning Position Key

H4	operate horizontally +-4 degrees
H15	operate horizontally +-15 degrees
BDTH	operate base down to horizontal
BDTHCH	operate base down to horizontal with filament coil axis horizontal
ANYCH	base in any position, but with filament coil axis horizontal
BD30	base down +-30 degrees
BD45	base down +-45 degrees

Miniature and Sealed Beam Lamps

Lamp Locator

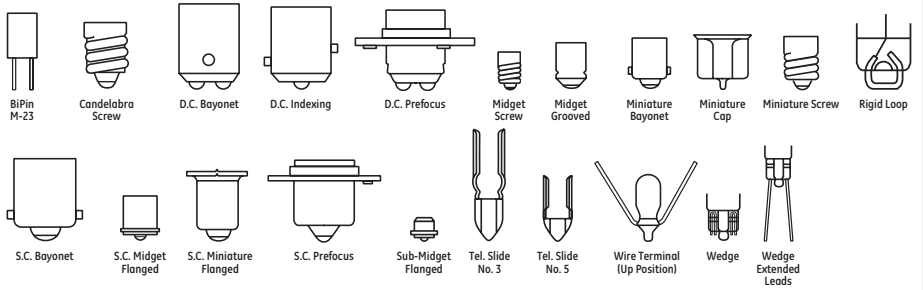
The lamps listed here are not to scale. To determine the diameter of a bulb in inches, multiply the bulb number by one-eighth. For example T-2 means approximately 2/8" or 1/4" diameter.



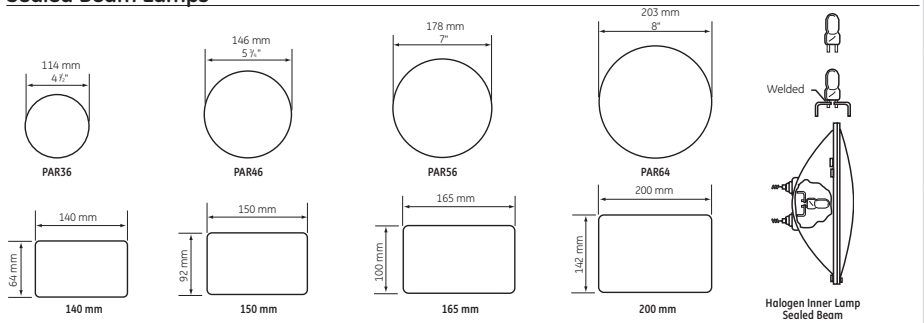
Miniature Bases

Bases provide electrical contact to the lamp and, in most cases, also support the lamp in the fixture. For miniature and subminiature lamps, bayonet or wedge base types are generally preferred over screw types when vibration is present.

In addition, wedge bases reduce socket size and complexity. Flanged or collared types are usually associated with requirements for filament location.

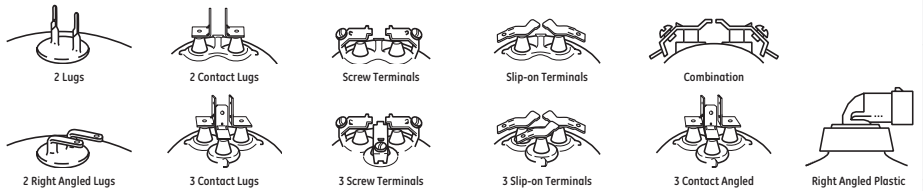


Sealed Beam Lamps



Sealed Beam Bases

Bases provide electrical contact to the lamp. The most common bases for sealed beam lamps are the screw terminal and contact lug types. Other types are also available, as illustrated.



For the most up-to-date product information, see www.gelighting.com.

For the most up-to-date product information, see www.gelighting.com.

Miniature and Sealed Beam Lamps

Introduction

GE Miniature and Sealed Beam Product Ordering Information

GE Miniature and Sealed Beam Lamps are designed for those applications requiring specific bulb size, base, and voltage. These lamps are operated on vehicles (cars, trucks, boats, aircraft, tractors) or in special applications utilizing low voltage sources. Most lamps are designated by common ANSI (American National Standards Institute) lamp numbers and lamps in this section are arranged in numerical order. To assist you in identifying lamps, drawings (not to scale) are provided, along with descriptions of bulb and base sizes.

Specific market segments covered in this section are products used in:

Aircraft	Emergency Building Lighting	Marine
Automotive	Flashlight/Hand Lanterns	Medical/Instruments
Agriculture	Garden/Outdoor	Telephone
CIM/Tractor	Indicator	Toys/Entertainment

For additional specifications refer to the Automotive Lamp Catalog obtained through your GE Sales Office. Automotive Selection Guide also available.

Finding and Ordering a Lamp

Most Miniature Lamps have a number on the base or bulb. Generally it will match the lamp number in this catalog, which is sorted in numeric order (prefixes last). The catalog is divided into Miniature and Sealed Beam sections. Sealed Beam lamps start on page 9-14. Often the first prefix is another lamp manufacturer's identification and can be ignored. You can verify the lamp using the drawings provided. Order codes for Blister, Unit, and Bulk Pack for OEM's are provided.

Formulas

The following are commonly used formulas to assist any calculations you may need. For further information, contact your GE Lamp Representative.

- Watts = Volts x Amps Candlepower
- Lumens = 12.57 x Mean Spherical
- Kelvin = Celsius + 273
- Footcandles = Candlepower/Distance squared (miniature lamps only)
- Hot Resistance (Ohms) = Volts/Amps

Abbreviations

The abbreviations used in this catalog include:

A	Amperes	C.P.	Candlepower
ANSI	American National Standards Institute	Cand.	Candelabra
Bay.	Bayonet	PAR	Parabolic Aluminized Reflector
D.C.	Double Contact	Pf.	Prefocus
ECE	European Common Market (European Motor Vehicle Standards)	SAE	Society of Automotive Engineers (US Motor Vehicle Standards)
Flg.	Flanged	Sc.	Screw
HID	High Intensity Discharge	S.C.	Single Contact
LCL	Light Center Length	Spec.	Special
Min.	Miniature	Tel.	Telephone
MOL	Maximum Overall Length	Term.	Terminals
MSCP	Mean Spherical Candlepower	V	Volts
Nom.	Nominal	W	Watts
C.I.M.	Construction & Industrial Machinery		

GE Miniature Lamp Prefixes

DE	Double-Ended	Q	Quartz Halogen
H	Halogen	W,T,R, C,P	European Designation
K	Krypton Gas		
PC	Printed Circuit Application	D2	Discharge
PR	Prefocus Base (e.g., "Flashlight Lamp")		

GE Miniature Lamp Suffixes

A	Amber	TY	Letters after a quartz halogen lamp mean a deviation from the standard lamp – usually refers to the electrical terminals
AF	All Frost (on outside)		
AS15	Ages and Selected to 15% (for candlepower)	WW	Warm White (aircraft lighting)
B	Blue	X	Indicates some arbitrary deviation from the normal product
CW	Cool White (aircraft lighting)		
E-1	Different lead wire material (NI plated)	Y	Yellow
G	Green	-1	Slip-on terminals
HD	Heavy Duty	-2	Represents various deviations
HO	High Output		
LL	Long Life	-3	Represents deviations (e.g. combination terminal)
NH	Nighthawk™		
NHS	Nighthawk™ Sport	W	European Designation (Watts)
NA	Natural Amber (automotive lighting)		
PSB	Pilot Indicator/ Short Base		
R	Red		
SB	Silver Bowl (all or some portion of bulb is silver). Also blue halogen.		

Headings in this catalog section

The following terms and descriptions can help you when checking Halogen lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by wattage. In each of these groups, lamps are listed alphabetically by bulb shape.

GE Lamp No.: In nearly all cases lamps are marked with a General Electric Trade Number recorded with the ANSI. See glossary of prefixes and suffixes on page 9-4.

Primary Application: Current uses of the lamp in general. Lamps are used in other applications than listed.

MSCP/MBCP: Approximate output expressed as initial mean spherical candlepower (see lumen conversion). For Sealed Beam MBCP is the maximum intensity of the beam in candelas, generally in the beam's center, and spread is beam size expressed in degrees.

Filament Design: C = coiled, CC = coiled coil, -6 = horizontal, -8 = vertical to base. See Miniature and Sealed Beam Catalog for all variations.

MOL (in): In inches from the top of the bulb to the bottom of the base.

Rated Life (hrs): Lamp burning hours to medium life expectancy.

Order Code: Use this code when ordering to ensure that you receive the exact product you require.

Case Qty: Quantity of lamps per case if blister pack (BP), unit, or bulk (OEM's).*

Amps or Watts: Energy used expressed as amperes (A) or watts (W) at design voltage.

Bulb: The prefix letter describes the shape and the number is the approximate bulb diameter.

LCL (in): Distance in inches between base reference plane and filament center.

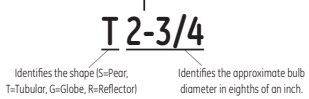
Footnotes, Warning and Caution Notices: See page 9-16 for explanation.

Volts: Voltage at which the lamp is designed to provide the amperes, candlepower, and laboratory life characteristics.

Base: Base types are depicted on the previous pages for both Miniature and Sealed Beam.

Order Code			Case Qty														
Blister	Unit	Bulk	BP	Unit	Bulk	GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
12325	17853		48	50		24	Auto Sidemarker	14.0	.24A	2.0	T2 3/4	Wedge (W2.1x9.5d)	C-2V	0.46	0.91	1500	

T-2 is Tubular approximately 2/8" in diameter. Sealed Beam bulb sizes are also in eighths of an inch if round (PAR). PAR36 is 36/8" or 4-1/2" in diameter. If the Sealed Beam is rectangular in shape the longest side is measured in millimeters. A 165mm Sealed Beam measures 6-1/2" (165mm) across the top.



*Miniature Incandescent BP is 2 lamps, Miniature Halogen BP is 1 lamp, selected miniature headlamps available in 2 pack BP; PC not shown.

Miniature Lamps

Order Code			Case Qty														
Blister	Unit	Bulk	BP	Unit	Bulk	GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
12325	17853		48	50		24	Auto Sidemarker	14.0	.24A	2.0	T2 3/4	Wedge (W2.1x9.5d)	C-2V	0.46	0.91	1500	
12316			48			24NA	Auto Sidemarker	14.0	.24A	1.5	T2 3/4	Wedge (W2.1x9.5d)	C-2V	0.46	0.91	1500	
26480	39220	17460	48	50	4000	37	Auto	14.0	.09A	0.5	T1 3/4	Wedge (W2.1x9.5d)	C-2F	0.40	0.80	2500	
	25450			50		44	Indicator	6.3	.25A	0.9	T3 1/4	Miniature Bayonet (Ba9s)	C-2R	0.78	1.19	3000	
	25485			50		47	Indicator	6.3	.15A	0.5	T3 1/4	Miniature Bayonet (Ba9s)	C-2R	0.78	1.19	3000	
	25550	25552		50	4000	53	Auto and Indicator	14.4	.12A	1.0	G3 1/2	Miniature Bayonet (Ba9s)	C-2V	0.50	0.94	1000	
23218	25591		48	50		57	Auto and Instrument	14.0	.24A	2.0	G4 1/2	Miniature Bayonet (Ba9s)	C-2V	0.56	1.07	500	
12324	25652	25654	48	50	1000	67	Auto	13.5	.59A	4.0	G6	Single Contact Bayonet (BA15s)	C-2R	0.81	1.44	5000	4
71895			48			67NH	Auto, Nighthawk™	13.5	.59A	4.0	G6	Single Contact Bayonet (BA15s)	C-2R	0.81	1.44		
	25692			50		68	Auto and Marine	13.5	.59A	4.0	G6	Double Contact Bayonet (BA15d)	C-2R	0.81	1.44	5000	4
23015		28770	48		4000	73	Indicator	14.0	.08A	0.3	T1 3/4	Wedge (W2.1x9.5d)	C-2F	0.40	0.80	15000	79
21029	38457	38458	48	50	4000	74	Auto	14.0	.10A	0.7	T1 3/4	Wedge (W2.1x9.5d)	C-2F	0.40	0.80	1000	
	40969			50		85	Indicator	28.0	.04A	0.3	T1 3/4	Wedge (W2.1x9.5d)	C-2F	0.40	0.80	7000	79
	25772			10		88	Indicator	6.8	1.91A	15.0	S8	Double Contact Bayonet (BA15d)	C-6	1.12	2.00	300	
12363	25778		48	50		89	Auto	13.0	.58A	6.0	G6	Single Contact Bayonet (BA15s)	C-2R	0.75	1.44	750	
47797			48			89 LL	Auto, Long Life	13.0	.58A	6.0	G6	Single Contact Bayonet (BA15s)	C-2R	0.75	1.44	1500	
12364	25794	25796	48	50	1000	90	Auto and Marine	13.0	.58A	6.0	G6	Double Contact Bayonet (BA15d)	C-2R	0.75	1.44	750	
23217	25811	17461	48	50	500	93	Auto	12.8	1.04A	15.0	S8	Single Contact Bayonet (BA15s)	C-6	1.12	2.00	700	
71904			48			93NH	Auto, Nighthawk™	12.8	1.04A	15.0	S8	Single Contact Bayonet (BA15s)	C-6	1.12	2.00		
00764	25829		48	50		94	Auto and Marine	12.8	1.04A	15.0	S8	Double Contact Bayonet (BA15d)	C-6	1.12	2.00	700	
12322	25836	25838	48	50	1000	97	Auto	13.5	.69A	4.0	G6	Single Contact Bayonet (BA15s)	C-2V	0.81	1.44	5000	4
	16287			50		98	Auto	13.0	.62A	6.0	G6	Single Contact Bayonet (BA15s)	C-2V	0.75	1.44	800	
	36147			50		105	Auto	12.8	1.0A	12.0	B6	Single Contact Bayonet (BA15s)	C-6	1.06	1.75	500	
	25931			50		158	Auto Instrument	14.0	.24A	2.0	T3 1/4	Wedge (W2.1x9.5d)	C-2V	0.56	1.06	500	
23016	25956	16489	48	50	4000	161	Auto Instrument	14.0	.19A	1.0	T3 1/4	Wedge (W2.1x9.5d)	C-2F	0.56	1.06	4000	
71902			48			161 NH	Auto, Nighthawk™	14.0	.19A	1.0	T3 1/4	Wedge (W2.1x9.5d)	C-2F	0.56	1.06		
12327	25962	28757	48	50	4000	168	Auto Instrument	14.0	.35A	3.0	T3 1/4	Wedge (W2.1x9.5d)	C-2F	0.56	1.06	1500	
47827			48			168 LL	Auto, Long Life	14.0	.35A	3.0	T3 1/4	Wedge (W2.1x9.5d)	C-2F	0.56	1.06	3000	
89239			48			168 NH	Auto, Nighthawk™	14.0	.35A	3.0	T3 1/4	Wedge (W2.1x9.5d)	C-2F	0.56	1.06		
	19553	19852		50	4000	193	Truck	14.0	.33A	2.0	T3 1/4	Wedge (W2.1x9.5d)	C-2F	0.56	1.06	15000	
		11807			4000	193E1	Truck Clearance	14.0	.33A	2.0	T3 1/4	Wedge, Wire Terminal (122)	C-2F		1.06	15000	122
12328	25965	28758	48	50	4000	194	Auto	14.0	.27A	2.0	T3 1/4	Wedge (W2.1x9.5d)	C-2F	0.56	1.06	2500	
89240			48			194 NH	Auto, Nighthawk™	14.0	.27A	2.0	T3 1/4	Wedge (W2.1x9.5d)	C-2F	0.56	1.06		
12356			48			194B	Auto, Blue	14.0	.27A		T3 1/4	Wedge (W2.1x9.5d)	C-2F		1.06	2500	132
12357			48			194G	Auto, Green	14.0	.27A		T3 1/4	Wedge (W2.1x9.5d)	C-2F		1.06	2500	132

For the most up-to-date product information, see www.gelighting.com.
All footnotes, warning and caution notices found at the end of this section (page 9-16).

Miniature and Sealed Beam Lamps

Miniature Lamps (continued)

Order Code			Case Qty			GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
Blister	Unit	Bulk	BP	Unit	Bulk												
12319	44859	27470	48	50	4000	**194NA**	Auto Sidemarker	14.0	.27A	1.5	T3 1/4	Wedge (W2.1x9.5d)	C-2F		1.06	2500	
47794			48			**194NA LL**	Auto Amber, Long Life	14.0	.27A	1.5	T3 1/4	Wedge (W2.1x9.5d)	C-2F		1.06	5000	
71894			48			**194NA LL NH**	Auto, Amber, Night-hawk™	14.0	.27A	1.5	T3 1/4	Wedge (W2.1x9.5d)	C-2F		1.06		
12355			48			**194R**	Auto, Red	14.0	.27A	2.0	T3 1/4	Wedge (W2.1x9.5d)	C-2F		1.06	2500	132
25832			48			**194LL**	Auto, Long Life	14.0	.27A	2.0	T3 1/4	Wedge (W2.1x9.5d)	C-2F	0.56	1.06	12000	
00760	37983	37984	48	50	500	**198**	Truck Stop, Signal	12.8/14.0	2.25/.59A	32.0/3.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	1200/1500	110,147
	37985	37986		50	500	**199**	Truck Stop	12.8	2.25A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	1200	110
	25988			50		**210**	Instrument	6.5	1.78A	15.0	B6	Double Contact Bayonet (BA15d)	C-6	1.06	1.75	100	
12673	39224	11803	48	50	2520	**211-2**	Auto	12.8	.97A	12.0	T3	Miniature Cap	C-8		1.72	1000	
71900			48			**211-2 NH**	Auto, Nighthawk™	12.8	.97A	12.0	T3	Miniature Cap	C-8		1.72		
23220			48			**212-2**	Auto	13.5	.74A	6.0	T3	Miniature Cap	C-8		1.72	2000	4
	39356			50		**214-2**	Auto	13.5	.52A	4.0	T3	Miniature Cap	C-8		1.72	1000	4
	44719			50		**265**	Indicator	28.0	.08A	0.8	G3 1/2	Miniature Bayonet (Ba9s)	C-2F	0.50	0.94	5000	
	81642			50		**301**	Aircraft	28.0	.17A	3.0	G-5	Single Contact Bayonet (BA15s)	C-2F	0.69	1.25	500	
	81641			50		**303**	Aircraft	28.0	.30A	6.0	G-6	Single Contact Bayonet (BA15s)	C-2F	0.75	1.44	500	
	81643			50		**304**	Aircraft	28.0	.30A	6.0	G-6	Double Contact Bayonet (BA15d)	C-2F	0.75	1.44	500	
	26143			50		**305**	Aircraft	28.0	.51A	15.0	S8	Single Contact Bayonet (BA15s)	C-2V	1.12	2.00	300	
	26145			50		**305AF**	Aircraft, Frosted	28.0	.51A		S8	Single Contact Bayonet (BA15s)	C-2V		2.00	300	
	26152			50		**306**	Aircraft	28.0	.51A	15.0	S8	Double Contact Bayonet (BA15d)	C-2V	1.12	2.00	300	
	81644			50		**307**	Aircraft	28.0	.67A	21.0	S-8	Single Contact Bayonet (BA15s)	C-2V	1.12	2.00	300	
	26161			50		**307AF**	Aircraft, Frosted	28.0	.67A	21.0	S8	Single Contact Bayonet (BA15s)	C-2V		2.00	300	
	81645			50		**308**	Aircraft	28.0	.67A	21.0	S8	Double Contact Bayonet (BA15d)	C-2V	1.12	2.00	300	
	81646			50		**308AF**	Aircraft, Frosted	28.0	.67A		S8	Double Contact Bayonet (BA15d)	C-2V		2.00	300	
	26175			10		**309**	Aircraft, Frosted	28.0	.90A	32.0	S11	Single Contact Bayonet (BA15s)	C-2V	1.25	2.38	300	
	81647			10		**311**	Aircraft	28.0	1.29A	50.0	S11	Single Contact Bayonet (BA15s)	C-2V	1.25	2.38	300	
	81649	81650		50	4000	**313**	Aircraft	28.0	.17A	3.5	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	500	
	81651			50		**315**	Aircraft	28.0	.90A	32.0	S8	Single Contact Bayonet (BA15s)	C-2V	1.12	2.00	300	
	81652			50		**316**	Aircraft	6.0	.70A	3.4	T3 1/4	Miniature Bayonet (Ba9s)	C-2R	0.62	1.19	500	
	80862			10		**317**	Aircraft	28.0	3.50W	2.6	T3	2-Pin (G4)	C-2R	0.78	1.16	1000	
	28519			50		**327**	Aircraft	28.0	.04A	0.3	T1 3/4	Single Contact Midget Flanged	C-2F	0.38	0.63	4000	79
	28546			50		**328**	Aircraft	6.0	.20A	0.3	T1 3/4	Single Contact Midget Flanged	C-2R	0.38	0.63	1000	10
	28567			50		**330**	Aircraft	14.0	.08A	0.5	T1 3/4	Single Contact Midget Flanged	C-2F	0.38	0.63	1500	
	28588			50		**334**	Aircraft	28.0	.04A	0.3	T1 3/4	Midget Grooved	C-2F	0.38	0.63	4000	79
	26255			50		**356**	Aircraft	28.0	.17A	3.5	G3 1/2	Miniature Bayonet (Ba9s)	C-2F	0.50	0.94	500	14
		87381			1000	**380**	Aircraft	6.3	.04A	0.0	T1 3/4	Single Contact Midget Flanged	C-2V		0.64	50000	79
	28653			50		**381**	Indicator	6.3	.20A	0.4	T1 3/4	Single Contact Midget Flanged	C-2F	0.38	0.63	20000	79
	28657			50		**382**	Indicator	14.0	.08A	0.3	T1 3/4	Single Contact Midget Flanged	C-2F	0.38	0.63	40000	79
	28660			50		**385**	Indicator	28.0	.04A	0.2	T1 3/4	Single Contact Midget Flanged	C-2F	0.44	0.81	10000	78,79
	28662			50		**386**	Indicator	14.0	.08A	0.3	T1 3/4	Midget Grooved	C-2F	0.38	0.63	40000	79
	28664	25090		50	1000	**387**	Indicator	28.0	.04A	0.3	T1 3/4	Single Contact Midget Flanged	C-2F	0.38	0.63	7000	
	28672			50		**388**	Indicator	28.0	.04A	0.3	T1 3/4	Midget Grooved	C-2F	0.38	0.63	7000	79
		87398			1000	**394**	Aircraft	12.0	.04A	0.1	T1 3/4	Single Contact Midget Flanged	C-2F		0.64	10000	79
	38918			50		**400**	Aircraft	28.0	.10A	1.6	T3 1/4	Wedge (W2.1x9.5d)	C-2F	0.56	1.06	1000	
	26441			50		**456**	Instrument	28.0	.17A	2.0	G4 1/2	Miniature Bayonet (Ba9s)	C-2F	0.56	1.07	5000	
	39645			50		**464**	Aircraft	28.0	.17A	3.0	T3 1/4	Wedge (W2.1x9.5d)	C-2F	0.56	1.06	1500	
12358	39746	11820	48	50	2520	**561**	Auto	12.8	.97A	12.0	T3	Rigid Loop	C-8		1.72	1000	
23019			48			**562**	Auto	13.5	.74A	6.0	T3	Rigid Loop	C-8		1.72	2000	4
		11825			1000	**563**	Auto	13.5	.52A	4.0	T3	Rigid Loop	C-8		1.72	1000	4
	18442			50		**590**	Strip Lighting	13.5	.37A	4.0	T3 1/4	Wedge (W2.1x9.5d)	C-2V	0.50	1.06	2000	
	81653	81654		50	1000	**623**	Instrument	28.0	.37A	6.0	G-6	Single Contact Bayonet (BA15s)	2C-2V	0.75	1.44	1000	
23023	26570		48	50		**631**	Auto	14.0	.63A	6.0	G6	Single Contact Bayonet (BA15s)	2C-2R	0.75	1.44	1000	
	81670	81671		50	4000	**658**	Indicator	14.0	.08A	0.3	T3 1/4	Wedge (W2.1x9.5d)	C-2F	0.56	1.06	15000	79
		87407			1000	**680**	Aircraft	5.0	.06A	0.03	T1	Wire Terminals	C-2R		0.24	100000	79
		87336			1000	**683**	Aircraft	5.0	.06A	0.05	T1	Wire Terminals	C-2R		0.24	100000	79
		87321			1000	**683AS15**	Aircraft	5.0	.06A	0.05	T1	Wire Terminals	C-2R		0.24	100000	79
		28706			1000	**685**	Aircraft	5.0	.06A	0.1	T1 3/4	Sub-Midget Flanged	C-2R	0.19	0.38	40000	79
	43132			50		**705**	Aircraft	28.0	.51A	15.0	S8	Single Contact Bayonet (BA15s)	CC-6	1.12	2.00	900	
		87411			1000	**713**	Aircraft	5.0	.75A	0.09	T1	Wire Terminals	C-2R		0.24	100000	79
		29903			1000	**715**	Aircraft	5.0	.115A	0.15	T1	Wire Terminals	C-2R		0.25	40000	79
		29901			1000	**715AS15**	Aircraft	5.0	.115A	0.15	T1	Wire Terminals	C-2R		0.25	40000	79
		29916			1000	**718**	Aircraft	5.0	.115A	0.15	T1	Sub-Midget Flanged	C-2R		0.36	40000	79
		29905			1000	**718AS15**	Aircraft	5.0	.115A	0.15	T1	Sub-Midget Flanged	C-2R		0.36	40000	79
	26591			50		**755**	Indicator	6.3	.15A	0.3	T3 1/4	Miniature Bayonet (Ba9s)	C-2R	0.78	1.19	20000	79

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All footnotes, warning and caution notices found at the end of this section (page 9-16).

Miniature Lamps (continued)

Order Code			Case Qty			GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
Blister	Unit	Bulk	BP	Unit	Bulk												
	26593			50		**756**	Indicator	14.0	.08A	0.3	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	15000	79
	81655			50		**757**	Indicator	28.0	.08A	0.6	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	15000	79
	11014			20		**767**	Instrument	6.0	2.00A	19.0	T2 1/4	Miniature Bayonet (Ba9s)	C-6	0.56	1.13	50	306
	11250			10		**773**	Instrument	12.0	.67A	10.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	1000	124,306
	12723	12724		10	500	**774**	Emergency Lighting	12.0	.67A	13.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	50	124,306
	49718			10		**778**	Instrument	6.0	3.33A	32.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	100	124,306
	18344			10		**780**	Strip Lighting	12.0	10.00W	12.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	2000	124,306
	44840	44841		10	500	**782**	Instrument	12.0	1.66A	25.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	2000	124,306
	44500	44501		10	500	**783**	Emergency Lighting	12.0	1.00A	22.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	50	124,306
	43760	43761		10	500	**784**	Emergency Lighting	6.0	1.00A	9.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	50	124,306
	43762	43763		10	500	**785**	Emergency Lighting	6.0	1.33A	13.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	50	124,306
	43764	43765		10	500	**786**	Emergency Lighting	6.0	2.00A	19.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	50	124,306
	43115	43116		10	500	**787**	Instrument	6.0	1.67A	16.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	100	124,306
	43117	43118		10	500	**788**	Instrument	6.0	3.33A	32.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	100	124,306
	43119			10		**789**	Instrument	12.0	1.17A	22.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	200	124,306
	43121			10		**790**	Instrument	14.0	1.79A	42.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	200	124,306
	43123	43124		10	500	**791**	Instrument	14.0	2.50A	61.0	T2 3/4	2-Pin (G4)	C-6	0.77	1.05	200	124,306
	20469			10		**795**	Signal	12.8	50.00W	108.0	T4	Single Contact Bayonet (BA15s)	C-6	1.25	2.50	200	4,306
	40848	14132		10	540	**862**	Tractor	12.8	2.93A	60.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	1900	306
12320		20904	48		540	**880**	Auto Fog	12.8	2.10A	43.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	300	17,160,306
		27582			540	**880 LL**	Auto Fog, Long Life	12.8	2.10A	43.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	1000	17,160,306
25101			12			**880 NH**	Auto Fog, Nighthawk™	12.8	2.10A	43.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68		17,160,306
25163			24			**880 NH**	Auto Fog. Nighthawk™	12.8	2.10A	43.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68		17,160,306
12334		20905	48		540	**881**	Auto Fog	12.8	2.10A	43.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	300	17,160,306
		27583			540	**881 LL**	Auto Fog, Long Life	12.8	2.10A	43.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	1000	17,160,306
	13158	13161		10	1000	**882**	Auto Instrument	12.8	.35A	3.8	T2 1/4	Printed Circuit Socket	C-6	0.37	1.18	2000	306
	18167			10		**882X**	Auto Instrument	12.8	.35A	3.8	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	2000	124,306
12335		20907	48		540	**885**	Auto Fog	12.8	3.90A	100.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	200	4,306
14689		20909	48		540	**886**	Auto Fog	12.8	3.90A	100.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	200	4,306
		25639			540	**887**	Tractor Work Light	12.8	3.90A	95.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	400	4,306
		25703			540	**888**	Tractor Work Light	12.8	3.90A	95.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	400	4,306
12336		20910	48		540	**889**	Auto Signal	12.8	2.10A	43.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.00	2.68	300	306
12337		20911	48		540	**890**	Auto Signal	12.8	2.10A	43.0	T3 1/4	Axial Plastic (PG13)	C-6	1.00	2.68	300	306
12308	15246	15248	48	10	500	**891**	Auto Stop	12.8	.63A	11.0	T2 1/4	2-Pin (G4)	C-6	0.77	1.00	500	124,306
12338		20913	48		540	**893**	Auto Fog	12.8	2.93A	75.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	200	4,17,160,306
		89115			540	**893CL**	Tractor	12.8	2.93A	75.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	200	4,160,306
25172			24			**893 NH**	Auto Fog, Nighthawk™	12.8	2.93A	75.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68		4,17,160,306
25102			12			**893 NH**	Auto Fog, Nighthawk™	12.8	2.93A	75.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68		4,17,160,306
22112	20238	18455	48	10	540	**894**	Tractor	12.8	2.93A	75.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	200	4,306
22113		20914	48		540	**896**	Auto Fog	12.8	2.93A	75.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	200	4,17,160,306
98093		12271	48		540	**898**	Auto Fog	12.8	2.93A	60.0	T3 1/4	Right Angle Prefocus (PGJ13)	C-6	1.25	2.68	1900	4,17,160,306
22111		12272	48		540	**899**	Auto Fog	12.8	2.93A	60.0	T3 1/4	Axial Plastic (PG13)	C-6	1.25	2.68	1900	4,17,160,306
14273			48			**901**	Garden	12.8	.31A	2.9	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	500	
23024	40462	40463	48	50	1000	**904**	Auto	13.5	.69A	4.0	T5	Wedge (W2.1x9.5d)	C-2F	0.81	1.49	5000	4
12366	40289	28763	48	50	1000	**906**	Auto	13.0	.69A	6.0	T5	Wedge (W2.1x9.5d)	C-2F	0.81	1.49	1000	
	44754	16858		50	1000	**908**	Emergency Lighting	6.0	1.50A	12.0	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	50	
	44756	16859		50	1000	**909**	Emergency Lighting	6.0	.62A	3.0	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	50	
12365	40504	28767	48	50	1000	**912**	Auto	12.8	1.00A	12.0	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	1000	
89242			48			**912 NH**	Auto, Nighthawk™	12.8	1.00A	12.0	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49		
	44769			50		**914**	Emergency Lighting	4.0	.90A	3.5	T5	Wedge (W2.1x9.5d)	C-6	0.75	1.49	50	
	44771	44772		50	1000	**915**	Emergency Lighting	12.0	.75A	11.0	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	50	
23025		28768	48		1000	**916**	Auto	13.5	.54A	2.0	T5	Wedge (W2.1x9.5d)	C-2F	0.81	1.49	10000	
	21860			50		**916NA**	Auto, Amber	13.0	.54A	1.5	T5	Wedge (W2.1x9.5d)	C-2F	0.81	1.49	10000	
40179	17837		30	50		**918**	Garden	12.8	56A	6.5	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	500	
12307	43374	45752	48	50	1000	**921**	Auto	12.8	1.40A	21.0	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	500	
89238			48			**921 NH**	Auto, Nighthawk™	12.8	1.40A	21.0	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49		
85938			25			**921XE**	Undercabinet	12.8	18.00W	21.0	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	10000	121
23027	13274	13275	48	50	1000	**922**	Auto	12.8	.98A	15.0	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	200	
71903			48			**922 NH**	Auto, Nighthawk™	12.8	.98A	15.0	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49		
40180			30			**923**	Garden	12.8	.91A	12.5	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	500	
	13483			50		**926**	Emergency Lighting	4.0	1.80A	7.5	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	50	

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Miniature and Sealed Beam Lamps

Miniature Lamps (continued)

Order Code			Case Qty														
Blister	Unit	Bulk	BP	Unit	Bulk	GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
	13485	13486		50	1000	927	Emergency Lighting	6.0	1.2A	8.0	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	50	
	16975	15285		50	1000	939	Emergency Lighting	6.0	.9A	5.4	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	50	
		23684			2500	963	Emergency Lighting	6.0	2.00A	15.0	T5	Wedge (W2.1x9.5d)	C-2R	0.81	1.49	50	
12367	26709		48	50		1003	Auto	12.8	.94A	15.0	B6	Single Contact Bayonet (BA15s)	C-6	1.06	1.75	200	
47800			48			1003 LL	Auto, Long Life	12.8	.94A	15.0	B6	Single Contact Bayonet (BA15s)	C-6	1.06	1.75	400	
71899			48			1003 NH	Auto, Nighthawk™	12.8	.94A	15.0	B6	Single Contact Bayonet (BA15s)	C-6	1.06	1.75		
12373	26726		48	50		1004	Auto	12.8	.94A	15.0	B6	Double Contact Bayonet (BA15d)	C-6	1.06	1.75	200	
	26775			50		1034	Auto Stop, Tail	12.8/14	1.80/.59A	32.0/3.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	200/ 5000	
40134	26838		48	50		1073	Auto Signal	12.8	1.8A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	200	
71905			48			1073NH	Auto, Nighthawk™	12.8	1.8A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00		
00765	26854		48	50		1076	Auto	12.8	1.8A	32.0	S8	Double Contact Bayonet (BA15d)	C-6	1.25	2.00	200	
	26885			10		1133	Instrument	6.2	3.91A	32.0	RP11	Single Contact Bayonet (BA15s)	C-2R	1.25	2.25	200	305
12346	26903	26905	48	50	500	1141	Auto	12.8	1.44A	21.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	1000	
47802			48			1141 LL	Auto, Long Life	12.8	1.44A	21.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	2000	
71897			48			1141 NH	Auto, Nighthawk™	12.8	1.44A	21.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00		
00759	26917	26919	48	50	500	1142	Auto	12.8	1.44A	21.0	S8	Double Contact Bayonet (BA15d)	C-6	1.25	2.00	1000	
12297			48			1154	Auto Stop, Tail	6.4/7.0	2.63/.75A	21.0/3.0	S8	Double Contact Index (BAY15d)	C-6	1.25	2.00	200/1000	
71889			48			1154 NH	Auto, Nighthawk™	6.4/7.0	2.63/.75A	21.0/3.0	S8	Double Contact Index (BAY15d)	C-6	1.25	2.00		
	26955			50		1155	Truck Marker	13.5	.59A	4.0	G6	Single Contact Bayonet (BA15s)	2C-2R	0.81	1.44	5000	4
12344	26960	26962	48	50	500	1156	Auto, Stop	12.8	2.10A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	1200	
23334		11666	48		1000	1156 LL	Auto, Stop, Long Life	12.8	2.10A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	2400	
21028	20248		48	50		1156NA	Auto, Amber	12.8	2.10A	24.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	1200	
89241			48			1156 NH	Auto, Nighthawk™	12.8	2.10A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00		
12294	26969	26971	48	50	500	1157	Auto Stop, Tail	12.8/14	2.10/.59A	32.0/3.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	1200 /5000	
23337			48			1157 LL	Auto Stop, Tail, Long Life	12.8/14	2.10/.59A	32.0/3.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	2400 /10000	
89236			48			1157 NH	Auto, Nighthawk™	12.8/14	2.10/.59A	32.0/3.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00		
12310	26975	26976	48	50	500	1157NA	Auto, Amber	12.8/14	2.10/.59A	24.0/2.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	1200/ 5000	
47798			48			1157NA LL	Auto, Amber, Long Life	12.8/14	2.10/.59A	24.0/2.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	2400 /10000	
71891			48			1157NA NH	Auto, Amber, Nighthawk™	12.8/14	2.10/.59A	24.0/2.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00		
	27004			10		1176	Auto Stop, Tail	12.8/14	1.34/.59A	21.0/6.0	S8	Double Contact Bayonet (BA15d)	C-6/C-6	1.25	2.00	300/ 1500	
	27021	27023		10	500	1195	Auto	12.5	3.00A	50.0	RP11	Single Contact Bayonet (BA15s)	C-2R	1.25	2.25	300	305
	27026			10		1196	Auto	12.5	3.00A	50.0	RP11	Double Contact Bayonet (BA15d)	C-2R	1.25	2.25	300	305
	39904			10		1229	Emergency Lighting	40.0	.38A	15.0	S8	Double Contact Bayonet (BA15d)	C-2V	1.12	2.00	400	
	81679			50		1251	Instrument	28.0	.23A	3.0	G6	Single Contact Bayonet (BA15s)	2C-2V	0.75	1.44	2000	
	22523		48	10		1295NA	Auto, Amber	12.5	3.00A	37.0	S8	Single Contact Bayonet (BA15s)	C-2R	1.25	2.00	200	
	12824			50		1308	Aircraft, Reading	28.0	.56A	16.0	B6	Single Contact Bayonet (BA15s)	CC-8	1.06	1.75	2000	
	81656			50		1309	Aircraft	28.0	.52A	15.0	B6	Single Contact Bayonet (BA15s)	CC-8	1.06	1.75	2000	
	81667			50		1315	Aircraft, Emergency	2.5	1.00A	1.8	G5	Single Contact Bayonet (BA15s)	C-6	0.69	1.25	20	116
	34265			50		1317	Aircraft, Emergency	6.0	.51A	3.4	B6	Single Contact Bayonet (BA15s)	C-6	1.12	1.75	100	116
	27150			10		1383	Aircraft, Reading	13.0	20.0W		R12	Single Contact Bayonet (BA15s)	C-8		2.63	300	
	27154			10		1385	Aircraft, Reading	28.0	20.0W		R12	Single Contact Bayonet (BA15s)	CC-8		2.63	300	
	27179			50		1408	Signal	10.0	.13A	0.9	T3 1/4	Miniature Bayonet (Ba9s)	C-2V	0.62	1.19	250	13
12329	27207		48	50		1445	Auto	14.4	.135A	0.7	G3 1/2	Miniature Bayonet (Ba9s)	C-2V	0.50	0.94	2000	13
	27263			50		1450	Indicator	24.0	.035A	0.2	G3 1/2	Miniature Bayonet (Ba9s)	C-2F	0.50	0.94	3000	
	81669			10		1460X	Microscope	6.5	2.75A	23.0	S8	Double Contact Prefocus	C-6	1.25	2.00	100	11
	81657			10		1495	Aircraft	28.0	.30A	6.0	T4 1/2	Miniature Bayonet (Ba9s)	C-2F	0.62	1.38	500	11
	81678			10		1495X	Aircraft, Gas Filled	28.0	.30A	6.0	T4 1/2	Miniature Bayonet (Ba9s)	C-2F	0.62	1.38	500	14
	81672			10		1591	Aircraft	28.0	.61A	15.0	S8	Single Contact Bayonet (BA15s)	C-2V	1.12	2.00	1000	13
	40945			50		1591AF	Aircraft, Frosted	28.0	.61A		S8	Single Contact Bayonet (BA15s)	C-2V		2.00	1000	13
	27461			10		1612	Instrument	5.4	1.90A	10.0	S8	Double Contact Bayonet (BA15d)	C-6	1.25	2.00	1000	147
	27472			10		1619	Instrument	6.7	1.90A	15.0	S8	Single Contact Bayonet (BA15s)	C-6	1.12	2.00	500	
	27488	27489		10	500	1630	Instrument	6.5	2.75A	23.0	S8	Double Contact Prefocus	C-6	1.00	2.00	100	11
	27504			50		1638	Marine	28.0	1.02A	32.0	S8	Double Contact Bayonet (BA15d)	2C-6	1.25	2.00	500	
	27529			10		1662	Aircraft	28/28	93/.34A	32.0/6.0	S8	Double Contact Index (BAY15d)	CC-6/C-2V	1.25	2.00	400/1000	13,15,33
	27532			50		1665	Aircraft	28.0	.80A	21.0	S8	Single Contact Bayonet (BA15s)	C-2V	1.12	2.00	1000	13
	81658			50		1665AF	Aircraft, Frosted	28.0	.80A		S8	Single Contact Bayonet (BA15s)	C-2V		2.00	1000	13
	27548			10		1680	Aircraft	6.0	4.10A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	300	
	81668			10		1680X	Aircraft	6.0	4.10A	32.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	300	
	27557			50		1683	Aircraft, Series Filament	28.0	1.02A	32.0	S8	Single Contact Bayonet (BA15s)	2C-6	1.25	2.00	500	

For the most up-to-date product information, see www.gelighting.com.
All footnotes, warning and caution notices found at the end of this section (page 9-16).

Miniature Lamps (continued)

Order Code			Case Qty														
Blister	Unit	Bulk	BP	Unit	Bulk	GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
	27566			50		1691	Aircraft, Series Filament	28.0	.61A	15.0	S8	Single Contact Bayonet (BA15s)	2C-2R	1.12	2.00	1000	
	27568			50		1691AF	Aircraft, Frosted	28.0	.61A		S8	Single Contact Bayonet (BA15s)	2C-2R		2.00	1000	
	27571			10		1692	Marine	28.0	.61A	15.0	S8	Double Contact Bayonet (BA15d)	2C-2R	1.12	2.00	1000	
	27630			10		1777	Aircraft	12.8	1.52A	26.0	S8	Single Contact Bayonet (BA15s)	C-2R	1.12	2.00	400	
	27667			50		1813	Radio	14.4	.10A	0.9	T3 1/4	Miniature Bayonet (Ba9s)	C-2V	0.62	1.19	1000	13
00758	27677	27679	48	50	4000	1815	Indicator	14.0	.20A	1.4	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.75	1.19	3000	147
12359	27688		48	50		1816	Aircraft, Auto	13.0	.33A	3.0	T3 1/4	Miniature Bayonet (Ba9s)	C-2V	0.62	1.19	1000	13
	81659			50		1818	Aircraft	24.0	.17A	3.3	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	250	147
	81660	81661		50	1000	1819	Indicator	28.0	.04A	0.3	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	2500	
	81663			50		1820	Indicator	28.0	.10A	1.6	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	1000	
	27749			50		1822	Indicator	36.0	.10A	2.1	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	1000	
	27772			50		1828	Indicator	37.5	.05A	0.7	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	3000	
	81664			50		1829	Indicator	28.0	.07A	1.0	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	1000	
	27804			50		1835	Indicator	55.0	05A	1.1	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	5000	
	81665	81666		50	1000	1864	Aircraft	28.0	.17A	3.0	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	1500	
	27868			50		1866	Radio	6.3	.25A	0.7	T3 1/4	Miniature Bayonet (Ba9s)	C-2R	0.78	1.19	5000	44
	40383			50		1873	Photo Scanner	28.0	.20A	3.0	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	7000	
12331	27917		48	50		1891	Auto	14.0	.24A	2.0	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	500	
00767	27927		48	50		1892	Auto	14.4	.12A	0.8	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	1000	
12332	27935	27937	48	50	4000	1893	Auto	14.0	.33A	2.0	T3 1/4	Miniature Bayonet (Ba9s)	C-2F	0.62	1.19	7500	
12330	27945	27948	48	50	4000	1895	Auto	14.0	14.2	14.3	G4 1/2	Miniature Bayonet (Ba9s)	C-2F	0.56	1.07	2000	
71896			48			1895 NH	Auto, Nighthawk™	14.0	14.2	14.3	G4 1/2	Miniature Bayonet (Ba9s)	C-2F	0.56	1.07		
	34021			10		1939X	Aircraft	28.0	1.79A	70.0	T7	Single Contact Bayonet (BA15s)	C-2V	1.25	2.16	300	13,14
	28008			10		1940	Aircraft	14.0	3.57A	75.0	T7	Single Contact Bayonet (BA15s)	C-8Z	1.25	2.16	300	14
	18617			10		1946	Aircraft	28.0	250W	660.0	T3	2-Pin with Leads	CC-6	0.87	1.46	50	
	28011			10		1958	Aircraft	28.0	150W	250.0	T4	Tab	CC-8	0.75	2.25	300	304
	39641			10		1962B	Special Service	8.5	62W	100.0	T3	Wire Terminals	C-6	0.29	1.14	50	304
	12859			10		1962BG	Aircraft	8.5	62W	110.0	T3	Wire Terminals	C-6	0.29	1.14	50	304
	37947			10		1962DX	Special Service	8.5	62W	80.0	T3	Wire Terminals	C-6	0.29	1.14	150	304
	44152			10		1962DZ	Special Service	8.5	62W	80.0	T3	Wire Terminals	C-6	0.29	1.14	150	304
	13667			10		1962TV	Medical	8.5	62W	110.0	T3	Wire Terminals	C-6	0.29	1.14	50	304
	28034			10		1968	Aircraft	28.0	25W	15.0	T3	Double Slide	C-2V	0.41	1.17	500	13,304
	41938			100		1970X	Aircraft	28.0	100W	140.0	T3	Special	CC-8		2.25	1000	13,304
	32780			10		1974	Instrument	6.0	20W	10.0	T3	Wire Terminals	C-6	0.29	1.14	10000	304
	38545			100		1978X	Aircraft	10.0	100W	130.0	T3	Bi-Pin (Special)	C-8		2.15	2000	304
	38627			10		1982	Aircraft	28.0	75W	11.0	T3	Single Contact Bayonet (BA15s)	CC-8	1.06	1.88	1000	13,304
	21061			10		1982SP	Aircraft	28.0	75W	107.0	T3	Single Contact Bayonet (BA15s)	CC-6	1.00	1.97	2000	304
	39718			10		1983	Aircraft	10.0	100W	130.0	T4	2-Pin	C-8	1.25	1.80	2000	304
	44717			10		1986	Aircraft	28.0	250W	600.0	T4	Wire Terminals	CC-6	1.03	2.00	100	304
	47695			10		1987	Aircraft	28.0	150W	240.0	T4	Double Contact Bayonet (BA15d)	CC-6	1.18	2.44	700	304
	38535			10		1988	Aircraft	10.0	100W	130.0	T3	Special Wire Leads	C-8		2.15	2000	304
12326	19280		48	10		2040	Auto	12.8	.625A	10.5	T2 1/4	Wedge (W2.1x9.5d)	C-6	0.40	1.25	500	306
12296	44760	18620	48	50	500	2057	Auto, Stop, signal	12.8/14.0	2.1/.48A	32.0/2.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	1200/ 5000	
23339			48			2057 LL	Auto, Long Life	12.8/14.0	2.1/.48A	32.0/2.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	2400/ 10000	
89237			48			2057 NH	Auto, Nighthawk™	12.8/14.0	2.1/.48A	32.0/2.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00		
12312	44763		48	50		2057NA	Auto, Amber	12.8/14.0	2.1/.48A	24.0/1.5	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	1200/ 5000	
47799			48			2057NA LL	Auto, Amber, Long Life	12.8/14.0	2.1/.48A	24.0/1.5	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	2400/ 10000	
71892			48			2057NA NH	Auto, Amber, Night-hawk™	12.8/14.0	2.1/.48A	24.0/1.5	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00		
		12899			600	2058U	Truck	12.8/14.0	2.1/.48A	32.0/2.0	S8	Wire Terminals	C-6/C-6		1.81	1200/ 5000	113
	26697			10		2059	Aircraft	12.0	.833A	9.1	T2 1/2	Miniature Bayonet (Ba9s)	C-8	0.59	1.30	4000	304
	26698			10		2059X	Aircraft	12.0	.833A	8.0	T2 1/2	Miniature Bayonet (Ba9s)	C-8	0.59	1.30	4000	304
	21494			10		2074	Instrument	7.0	25W	24.0	T3	Wire Terminals	C-6	0.285	1.14	2700	304
	34763			50		2232	Aircraft	28.0	18W	18.0	S8	Single Contact Bayonet (BA15s)	CC-8	1.19	2.00	2000	
	26702			50		2232LL	Aircraft, Long Life	28.0	18W	18.0	S8	Single Contact Bayonet (BA15s)	CC-8	1.19	2.00	4000	
	81677			10		2232SB	Aircraft, Reflectorized	28.0	18W		S8	Single Contact Bayonet (BA15s)	CC-8	1.19	2.00	2000	
	36906			10		2233	Aircraft	28.0	21W	21.0	S8	Single Contact Bayonet (BA15s)	CC-8	1.19	2.00	2000	
12298	16291		48	50		2357	Auto, Stop, signal	12.8/14.0	2.2/.59A	40.0/3.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	400/ 5000	
71890			48			2357 NH	Auto, Nighthawk™	12.8/14.0	2.2/.59A	40.0/3.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00		
12299	15698		48	50		2357NA	Auto, Amber	12.8/14.0	2.2/.59A	30.0/2.2	S8	Double Contact Index (BAY15d)	C-6	1.25	2.00	400/ 5000	

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All footnotes, warning and caution notices found at the end of this section (page 9-16).

Miniature and Sealed Beam Lamps

Miniature Lamps (continued)

Order Code			Case Qty			GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
Blister	Unit	Bulk	BP	Unit	Bulk												
	18047			10		2396	Auto, Stop	12.8	2.23A	40.0	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	400	
27560			48			2397	Auto, Stop, signal	12.8/14.0	2.23/.48A	40.0/2.0	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	400/ 5000	
		19792			100	2556	Aircraft	28.0	200W	525.0	T3	2-Pin	CC-6	0.87	1.46	50	304
		19566			100	2586	Aircraft	28.0	250W	600.0	T4	2-Pin with Insulation Leads	CC-6	1.30	1.90	100	304
	43805			10		2604X	Instrument, Lens end	5.0	2.0A		TL2 3/4	2-Pin (G4)	C-6		1.18	5000	124,128,306
	36508			10		3011	Aircraft	28.0	1.29A	44.0	S11	Single Contact Bayonet (BA15s)	C-2V	1.25	2.38	1000	13
12305	18389		48	50		3057	Auto, Stop, signal	12.8/14.0	2.1/.48A	32.0/2.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	1200/ 5000	
26378			48			3057 LL	Auto, Long Life	12.8/14.0	2.1/.48A	32.0/2.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	2000/ 10000	
89243			48			3057 NH	Auto, Nighthawk™	12.8/14.0	2.1/.48A	32.0/2.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09		
12313	18391		48	50		3057NA	Auto, Amber	12.8/14.0	2.1/.48A	24.0/1.5	S8	Plastic Wedge	C-6/C-6	1.10	2.09	1200/ 5000	
	14698			10		3078	Aircraft	10.0	100W	95.0	T3	Special	C-8	1.10	2.15	4500	304
23028			48			3155	Auto, Signal	12.8	1.60A	21.0	S8	Plastic Wedge	C-6	1.10	2.09	1500	
12351	21863		48	50		3156	Auto, Stop	12.8	2.1A	32.0	S8	Plastic Wedge	C-6	1.10	2.09	1200	
27565			48			3156 LL	Auto, Long Life	12.8	2.1A	32.0	S8	Plastic Wedge	C-6	1.10	2.09	2000	
71898			48			3156 NH	Auto, Nighthawk™	12.8	2.1A	32.0	S8	Plastic Wedge	C-6	1.10	2.09		
12306	17172		48	50		3157	Auto, Stop, signal	12.8/14.0	2.1/.59A	32.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	1200/ 5000	
26377			48			3157 LL	Auto, Long Life	12.8/14.0	2.1/.59A	32.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	2000/ 10000	
89244			48			3157 NH	Auto, Nighthawk™	12.8/14.0	2.1/.59A	32.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09		
12314	17173		48	50		3157NA	Auto, Amber	12.8/14.0	2.1/.59A	24.0/2.2	S8	Plastic Wedge	C-6/C-6	1.10	2.09	1200/ 5000	
26380			48			3157NA LL	Auto, Amber, Long Life	12.8/14.0	2.1/.59A	24.0/2.2	S8	Plastic Wedge	C-6/C-6	1.10	2.09	2000/ 10000	
71893			48			3157NA NH	Auto, Amber, Nighthawk™	12.8/14.0	2.1/.59A	24.0/2.2	S8	Plastic Wedge	C-6/C-6	1.10	2.09		
14387	22525		48	50		3357/3457	Auto, Stop, signal	12.8/14.0	2.1/.59A	40.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	400/ 5000	
26379			48			3357/ 3457 LL	Auto, Long Life	12.8/14.0	2.1/.59A	40.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	800/ 10000	
71901			48			3457NH	Auto, Nighthawk™	12.8/14.0	2.1/.59A	40.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09		
14388	22526		48	50		3357NA/ 3457NA	Auto, Amber	12.8/14.0	2.1/.59A	30.0/2.2	S8	Plastic Wedge	C-6/C-6	1.10	2.09	400/ 5000	
25834			48			3496	Auto, Japanese	12.8/14.0	2.1/.59A	43.0/3.0	T7	Double Contact Index (BAY15d)	C-6/C-6		2.00	600/ 5000	
25835			48			3497	Auto, Japanese	12.8	2.1A	45.0	T7	Single Contact Bayonet (BA15s)	C-6		2.00	600	
25837			48			3652	Auto, Japanese	13.5	.37A	6.0	T3 1/4	Wedge (W2.1x9.5d)			1.06	700	
15657			48			4157LL	Auto, Stop, signal	12.8/14.0	2.23/.59A	32.0/3.0	S8	Plastic Wedge	C-6/C-6	1.10	2.09	3600/ 10000	
47458			48			4157NA LL	Auto, Stop, signal, Amber	12.8/14.0	2.23/.59A	24.0/2.2	S8	Plastic Wedge	C-6/C-6	1.10	2.09	3600/ 10000	
	28154			24		5004 CW	Aircraft-Cool White	A.C.	4W	11.9	T5	Miniature Pinless			6.00	7500	32,162,309
	28155			24		5004 WW	Aircraft-Warm White	A.C.	4W	11.1	T5	Miniature Pinless			6.00	7500	32,162,309
	28160			24		5008CW	Aircraft-Cool White	A.C.	8W	35.4	T5	Miniature Pinless			12.00	7500	32,162,309
	28163			24		5008WW	Aircraft-Warm White	A.C.	8W	34.6	T5	Miniature Pinless			12.00	7500	32,162,309
	28168			24		5013CW	Aircraft-Cool White	A.C.	13W	65.2	T5	Miniature Pinless			21.00	7500	32,162,309
	28169			24		5013WW	Aircraft-Warm White	A.C.	13W	62.8	T5	Miniature Pinless			21.00	7500	32,162,309
	27367			24		5104CW	Aircraft-Cool White	A.C.	4W	11.9	T5	Miniature Bi-Pin			6.00	7500	32,162,309
	28173			24		5104 WW	Aircraft-Warm White	A.C.	4W	11.1	T5	Miniature Bi-Pin			6.00	7500	32,162,309
	12774			24		5106CW	Aircraft-Cool White	A.C.	6W	24.7	T5	Miniature Bi-Pin			9.00	7500	32,162,309
	33612			24		5106WW	Aircraft-Warm White	A.C.	6W	23.9	T5	Miniature Bi-Pin			9.00	7500	32,162,309
	27466			24		5108CW	Aircraft-Cool White	A.C.	8W	35.4	T5	Miniature Bi-Pin			12.00	7500	32,162,309
	28175			24		5108 WW	Aircraft-Warm White	A.C.	8W	34.6	T5	Miniature Bi-Pin			12.00	7500	32,162,309
	12775			24		5113CW	Aircraft-Cool White	A.C.	13W	65.2	T5	Miniature Bi-Pin			21.00	7500	32,162,309
	28178			24		5113 WW	Aircraft-Warm White	A.C.	13W	62.8	T5	Miniature Bi-Pin			21.00	7500	32,162,309
		29897			1000	6034BP	Aircraft	28.0	.024A	0.15	T1 3/4	Bi-Pin (M-23)	C-2F		0.64	5000	
		29895			1000	6034BPGPL	Aircraft	28.0	.024A	0.15	T1 3/4	Bi-Pin (M-23)	C-2F		0.64	5000	
		87360			1000	6832	Aircraft	5.0	.06A	0.05	T1	Short Wire Terminal	C-2R		0.14	100000	
		87351			1000	6832AS15	Aircraft	5.0	.06A	0.05	T1	Short Wire Terminal	C-2R		0.14	100000	
		87291			1000	6839	Aircraft	28.0	.024A	0.15	T1	Sub-Midget Flanged	CC-2F		0.36	16000	
		29893			1000	6839BPE	Aircraft	28.0	.024A	0.15	T1	Bi-Pin (M-23)	CC-2F		0.35	16000	
		29894			1000	6839BPEGPL	Aircraft	28.0	.024A	0.15	T1	Bi-Pin (M-23)	CC-2F		0.35	16000	
		87274			1000	7132AS15	Aircraft	5.0	.075A	0.09	T1	Short Wire Terminal	C-2R		0.14	40000	
		87402			1000	7152	Aircraft	5.0	.115A	0.15	T1	Short Wire Terminal	C-2R		0.14	40000	
		97548			1000	7152AS15	Aircraft	5.0	.115A	0.15	T1	Short Wire Terminal	C-2R		0.14	40000	
	28926			50		7387	Indicator	28.0	.04A	0.3	T1 3/4	Bi-Pin (M-23)	C-2F	0.50	0.61	7000	79

For the most up-to-date product information, see www.gelighting.com.
All footnotes, warning and caution notices found at the end of this section (page 9-16).

Miniature Lamps (continued)

Order Code			Case Qty			GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
Blister	Unit	Bulk	BP	Unit	Bulk												
26200			48			7440	Auto, Japanese Vehicles	13.5	1.85A	37.0	T7	Wedge (103x16DQ)	C-6		1.75	300	
26201			48			7443	Auto, Japanese Vehicles	13.5/13.5	1.85/.4A	35.0/3.0	T7	Wedge (103x16DQ)	C-6/C-6		1.75	500/1000	
89248			48			7443 NH	Auto, Nighthawk™	13.5/13.5	1.85/.4A	35.0/3.0	T7	Wedge (103x16DQ)	C-6/C-6		1.75		
22432	22389	14542	48	100	200	9003/HB2	Auto headlamp	12.8/12.8	67/60W	119.0/72.0	T4 3/4	P43T-38	C-8/C-8	1.12	3.62	150/800	4,306
25107			12			9003 NH	Auto, Nighthawk™	12.8/12.8	67/60W	119.0/72.0	T4 3/4	P43T-38	C-8/C-8	1.12	3.62		4,306
25150			24			9003 NH	Auto, Nighthawk™	12.8/12.8	67/60W	119.0/72.0	T4 3/4	P43T-38	C-8/C-8	1.12	3.62		4,306
89139			24			9003 NHS	Auto, Nighthawk™ Sport	12.8/12.8	67/60W	119.0/72.0	T4 3/4	P43T-38	C-8/C-8	1.12	3.62		4,306
45470			48			9003 SB	Auto, Blue Halogen	12.8/12.8	67/60W	119.0/72.0	T4 3/4	P43T-38	C-8/C-8	1.12	3.62	80/150	4,306
18508	13382		48	100		9004/HB1	Auto headlamp	12.8/12.8	65/45A	95.0/55.0	T4 3/4	Axial Plastic Prefocus	C-6/C-6	1.75	4.17	150/320	4,306
27651			48			9004HO	Auto, High Output	12.8/12.8	65/42W	95.0/56.0	T4 3/4	Axial Plastic Prefocus	C-6/C-6	1.75	4.17	150/640	4,306
45471			48			9004 SB	Auto, Blue Halogen	12.8/12.8	65/45W	95.0/55.0	T4 3/4	Axial Plastic Prefocus	C-6/C-6	1.75	4.17	40/200	4,306
13993	11249	20559	48	100	250	9004 LL	Auto, Long Life	12.8/12.8	65/47W	95.0/55.0	T4 3/4	Axial Plastic Prefocus	C-6/C-6	1.75	4.17	150/850	4,306
25106			12			9004 NH	Auto, Nighthawk™	12.8/12.8	65/45A	95.0/55.0	T4 3/4	Axial Plastic Prefocus	C-6/C-6	1.75	4.17		4,306
25149			24			9004 NH	Auto, Nighthawk™	12.8/12.8	65/45A	95.0/55.0	T4 3/4	Axial Plastic Prefocus	C-6/C-6	1.75	4.17		4,306
97698			24			9004 NHS	Auto, Nighthawk™ Sport	12.8/12.8	65/45A	95.0/55.0	T4 3/4	Axial Plastic Prefocus	C-6/C-6	1.75	4.17		4,306
97699			12			9004 NHS	Auto, Nighthawk™ Sport	12.8/12.8	65/45A	95.0/55.0	T4 3/4	Axial Plastic Prefocus	C-6/C-6	1.75	4.17		4,306
18509	13384	36431	48	100	200	9005/HB3	Auto headlamp	12.8	65W	135.0	T4	Right Angle (P20d)	C-8	1.24	3.13	800	4,306
25105			12			9005 NH	Auto, Nighthawk™	12.8	65W	135.0	T4	Right Angle (P20d)	C-8	1.24	3.13		4,306
25148			24			9005 NH	Auto, Nighthawk™	12.8	65W	135.0	T4	Right Angle (P20d)	C-8	1.24	3.13		4,306
89140			24			9005 NHS	Auto, Nighthawk™ Sport	12.8	65W	135.0	T4	Right Angle (P20d)	C-8	1.24	3.13		4,306
45472			48			9005 SB	Auto, Blue Halogen	12.8	65W	135.0	T4	Right Angle (P20d)	C-8	1.24	3.13	150	4,306
45866			48			9005 XS LL	Auto, Axial Base, Long Life	12.8	65W	135.0	T4	Axial Plastic	C-8	1.24	3.13	700	4,306
18510	13397	36432	48	100	200	9006/HBA	Auto headlamp	12.8	55W	80.0	T4	Right Angle (P22d)	C-8	1.24	3.13	850	4,306
47640			48			9006 HO	Auto, High Output	12.8	55W	80.0	T4	Right Angle (P22d)	C-8	1.24	3.13	1000	4,306
25104			12			9006 NH	Auto, Nighthawk™	12.8	55W	80.0	T4	Right Angle (P22d)	C-8	1.24	3.13		4,306
25147			24			9006 NH	Auto, Nighthawk™	12.8	55W	80.0	T4	Right Angle (P22d)	C-8	1.24	3.13		4,306
97700			24			9006 NHS	Auto, Nighthawk™ Sport	12.8	55W	80.0	T4	Right Angle (P22d)	C-8	1.24	3.13		4,306
97701			12			9006 NHS	Auto, Nighthawk™ Sport	12.8	55W	80.0	T4	Right Angle (P22d)	C-8	1.24	3.13		4,306
45473			48			9006 SB	Auto, Blue Halogen	12.8	55W	80.0	T4	Right Angle (P22d)	C-8	1.24	3.13	320	4,306
45868			48			9006 XS LL	Auto, Axial Base, Long Life	12.8	55W	80.0	T4	Axial Plastic	C-8	1.24	3.13	1500	4,306
22388	20551	20552	48	100	250	9007/HB5	Auto headlamp	12.8/12.8	65/55W	107.0/79.0	T4 3/4	Axial Plastic Prefocus	C-8/C-8	1.75	4.17	150/1,100	4,306
47642			48			9007 HO	Auto, High Output	12.8/12.8	65/53W	107.0/79.0	T4 3/4	Axial Plastic Prefocus	C-8/C-8	1.75	4.17	150/320	4,306
25103			12			9007 NH	Auto, Nighthawk™	12.8/12.8	65/55W	107.0/79.0	T4 3/4	Axial Plastic Prefocus	C-8/C-8	1.75	4.17		4,306
25146			24			9007 NH	Auto, Nighthawk™	12.8/12.8	65/55W	107.0/79.0	T4 3/4	Axial Plastic Prefocus	C-8/C-8	1.75	4.17		4,306
97696			24			9007 NHS	Auto, Nighthawk™ Sport	12.8/12.8	65/55W	107.0/79.0	T4 3/4	Axial Plastic Prefocus	C-8/C-8	1.75	4.17		4,306
97697			12			9007 NHS	Auto, Nighthawk™ Sport	12.8/12.8	65/55W	107.0/79.0	T4 3/4	Axial Plastic Prefocus	C-8/C-8	1.75	4.17		4,306
45474			48			9007 SB	Auto, Blue Halogen	12.8/12.8	65/58W	107.0/79.0	T4 3/4	Axial Plastic Prefocus	C-8/C-8	1.75	4.17	110/250	4,306
71342			48			9008(H13)	Auto headlamp	12.8/12.8	65/55w	119.0/79.6	T4 5/8	P26.4t	C-8/C-8	1.00	3.54	320/150	4,306
40843		42382	48		200	9145/H10	Auto Fog	12.8	45W	65.0	T4	PY20D	C-8	1.24	3.01	1500	4,306
47461			48			58540	Auto, Halogen	13.5	.37A	63.0	T3	Miniature Bayonet (Ba9s)	C-2R	0.59	1.22	240	308
	26696			10		A-103	Aircraft	28.0	50W	60.0	T3	Bi-Pin (Special)	CC-8		1.87	1000	304
	12064			10		B1A	Neon Glow-NE51	120.0	1/25W		T3 1/4	Miniature Bayonet (Ba9s)			1.19	15000	164
	12065			10		B2A	Neon Glow-NE51H	120.0	1/7W		T3 1/4	Miniature Bayonet (Ba9s)			1.19	25000	164
	31675			10		B7A	Neon Glow-NE45	120.0	1/4W		T4 1/2	Candelabra Screw (E12)			1.53	7500	164
23312			48			C5W	Auto. ECE C5W	13.5	.37A	3.6	T3 1/2	SVB.5MM			1.45	450	
	80851	70603		24	144	D2R	Auto Discharge-Reflector	85.0	35W	114.0	T3	P32d-3		1.06	3.09	1000	1,2,310
	25088	70605		24	144	D2S	Auto Discharge-Projector	85.0	35W	254.0	T3	P32d-2		1.06	3.09	1000	1,2,310
	90057			32		D2S BLUE	Non-Auto Discharge	85.0	35W		T3	P32d-2		1.06	3.09	1000	1,2,310
	90059			32		D2S SUPERBLUE	Non-Auto Discharge	85.0	35W		T3	P32d-2		1.06	3.09	1000	1,2,310
25323			48			DE3021	Auto	14.0	.24A	2.0	T2 1/4	#10 Spade			1.15	1000	
12353			48			DE3022	Auto	13.0	.38A	3.0	T2 1/4	#10 Spade			1.18	1000	
12354	12084	28858	48	50	5000	DE3175	Auto	13.0	.77A	9.6	T3 1/4	SVB.5MM			1.25	400	
89245			48			DE3175 NH	Auto, Nighthawk™	13.0	.77A	9.6	T3 1/4	SVB.5MM			1.25		

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All footnotes, warning and caution notices found at the end of this section (page 9-16).

Miniature and Sealed Beam Lamps

Miniature Lamps (continued)

Order Code			Case Qty														
Blister	Unit	Bulk	BP	Unit	Bulk	GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
	12085			10		DE 3425	Auto	13.0	.77A	9.6	T4	SV8.5MM			1.50	400	
23324			48			DE7576	Strip Lighting	13.5	.74A	9.8	T3 1/2	SV8.5MM			1.65	200	
40336	27328	32376	48	10	300	H1-55	Auto, GE 50310/1	13.2	62W	123.0	T3 1/2	P14.5S	C-8	1.08	2.66	225	308
25159			24			H1-55 NH	Auto, Nighthawk™	13.2	62W	123.0	T3 1/2	P14.5S	C-8	1.08	2.66		308
25092			12			H1-55 NH	Auto, Nighthawk™	13.2	62W	123.0	T3 1/2	P14.5S	C-8	1.08	2.66		308
	27569			10		H1-70	Auto, GE50230/1	28.0	80W	151.0	T3 1/2	P14.5S	C-8	1.08	2.46	600	308
	27330			10		H2-55	Auto, GE 50410	13.2	62W	143.0	T3 1/2	X511	C-8	0.48	1.22	225	308
		23442			400	H3-35	CIM, GE 50390	13.2	40W	60.0	T3 1/2	PK22S	C-6	0.71	1.65	200	308
12339	27331	22132	48	10	400	H3-55	Auto, GE 50340	13.2	62W	115.0	T3 1/2	PK22S	C-6	0.71	1.65	225	308
		23445			400	H3-55D	CIM, GE 50340D	13.2	62W	111.0	T3 1/2	PK22S	C-6	0.71	1.65	600	308
		35044			400	H3-55LL	Auto, GE50340, Long Life	13.2	64W	106.0	T3 1/2	PK22S	C-6	0.71	1.65	2000	308
		23428			400	H3-65/28V	CIM, GE 52590D	28.0	66W	102.0	T3 1/2	PK22S	C-6	0.71	1.65	1000	308
	27332			10		H3-70/28V	CIM, GE50350	28.0	75W	135.0	T3 1/2	PK22S	CC-6	0.71	1.65	225	308
12341			48			H3-100	Off Road, GE52130	13.2	92W	187.0	T3 1/2	PK22S	C-6	0.71	1.65	100	308
18132	27334	22133	48	10	200	H4-60/55	Auto H4,GE 50440	13.2/13.2	71/66W	138.0/80.0	T5	P43T-38	C-8/C-8	1.12	3.62	225/900	308
25094			24			H4-60 NH	Auto, Nighthawk™	13.2/13.2	71/66W	138.0/80.0	T5	P43T-38	C-8/C-8	1.12	3.62		
	27342	93732		10	200	H4-75/70/28V	Bus, GE 50450	28.0/28.0	80/73W	151.0/95.0	T5	P43T-38	C-8/C-8	1.14	3.62	150/300	308
26374		38641	48		200	H7-55	Auto, ECE/DOT, GE58520	13.2	57W	115.0	T3 1/2	PX26D	C-8	0.98	2.36	500	308
		35755			200	H7-55LL	Auto, ECE/DOT	13.2	57W	115.0	T3 1/2	PX26D	C-8	0.98	2.36		
25160			24			H7-55 NH	Auto, Nighthawk™	13.2	57W	115.0	T3 1/2	PX26D	C-8	0.98	2.36		
89141			24			H7-55 NHS	Auto, Nighthawk™ Sport	13.2	57W	115.0	T3 1/2	PX26D	C-8	0.98	2.36		308
29047		15765	48		140	H8	Auto, ECE Fog	13.2	40W	64.0	T3 1/2	PGJ19-1	C-8	1.06	2.63	400	2,308
29049		15827	48		140	H9	Auto, ECE headlamp	13.2	65W	167.0	T3 1/2	PGJ19-5	C-8	1.08	2.63	125	2,308
23762		15828	48		140	H11	Auto, ECE headlamp	13.2	55W	107.0	T3 1/2	PGJ19-2	C-8	1.07	2.63	550	2,308
89255		15963	48		140	H11LL	Auto, ECE headlamp. Long Life	13.2	55W	107.0	T3 1/2	PGJ19-2	C-8	1.07	2.63	1400	4,308
71342			48			H13 (9008)	Auto headlamp	12.8/12.8	65/55W	119.0/79.6	T4 5/8	P26.4t	C-8/C-8	1.00	3.54	320/150	308
22961			48			KPR102	Flashlight-2D Krypton	2.4	.7A	3.0	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	48.00	15	116
23153			48			KPR 113	Flashlight-4D Krypton	4.8	.47A	4.1	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	1.25	20	116
23306			48			P21W	Auto, ECE.Stop	13.5	1.85A	36.6	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	250	
89247			48			P21W NH	Auto, Nighthawk™	13.5	1.85A	36.6	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00		
20695		30852	48		1000	P21W LL	Auto, Long Life	13.5	1.85A	36.6	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	300	
	40778			10		P21W 24V	Bus, Stop	28.0	1.0A	36.6	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	150	
27561			48			P21/4W	Auto, ECE, Stop, tail	13.5/13.5	1.85/.37A	35.0/1.19	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	100/100	
23303		30856	48		1000	P21/5W	Auto, ECE, Stop, tail	13.5/13.5	1.85/.44	35.0/2.78	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	250 1000	
		21274			1000	P21/5W LL	Auto, Long Life	13.5/13.5	1.85/.44	35.0/2.78	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00	600/3000	
89246			48			P21/5W NH	Auto, Nighthawk™	13.5/13.5	1.85/.44	35.0/2.78	S8	Double Contact Index (BAY15d)	C-6/C-6	1.25	2.00		
	27222	23037		10	1000	PC168	Auto Instrument	14.0	.35A	3.0	T3 1/4	Printed Circuit Socket	C-2F	0.45	1.11	1500	
	27221			10		PC194	Auto Instrument	14.0	.27A	2.0	T3 1/4	Printed Circuit Socket	C-2F	0.45	1.11	2500	
12675	25181		48	50		PR2	Flashlight-2D cells	2.4	.5A	0.8	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	1.25	15	116
12676	25193		48	50		PR3	Flashlight-3D cells	3.6	.5A	1.5	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	1.25	15	116
12677			48			PR4	Flashlight-2C cells	2.3	.27A	0.4	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	1.25	15	116
	25222			50		PR6	Flashlight-2D cells	2.5	.3A	0.5	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	1.25	30	116
	25235			50		PR7	Flashlight-3D cells	3.7	.3A	0.9	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	1.25	30	116
	25252			50		PR12	Flashlight-5D cells	6.0	.5A	3.1	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	1.25	15	116
12681	25262		48	50		PR13	Flashlight-4F cells	4.8	.5A	2.2	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	1.25	15	116
	25289			50		PR18	Flashlight-6D cells	7.2	.55A	5.5	B3 1/2	Single Contact Miniature Flanged	C-2R	0.25	1.25	3	116
41370		18294	48		500	PY21W	Auto, ECE, Stop, Tail, Amber	13.5	1.85A	22.3	S8	Single Contact Bayonet (BA15s)	C-6	1.25	2.00	250	
23314			48			R5W	Auto, ECE, GE2619	13.5	5W	4.0	G6	Single Contact Bayonet (BA15s)	C-2R	0.75	1.47		
23765		30859			2000	R5WLL	Auto, ECE	13.5	5W	4.0	G6	Single Contact Bayonet (BA15s)	C-2R	0.75	1.47	500	
23322		35417	48		2000	R10W	Auto, ECE, GE2641	13.5	10W	10.0	G6	Single Contact Bayonet (BA15s)	C-2R	0.75	1.47	400	
23318			48			T4W	Auto, ECE, GE2662	13.5	4W	2.8	T2 3/4	Miniature Bayonet (Ba9s)	C-2R	0.59	1.08	450	
	12756			50		TEL/6PSB	Telephone Indicator	6.0	.14A	550.0	T2	Tel. Slide No. 5	C-2V		1.11	20000	80
	12760			50		TEL/12PSB	Telephone Indicator	12.0	.17A	2000.0	T2	Tel. Slide No. 5	C-2F		1.11	12000	80
	29001			50		TEL/24E2	Telephone Indicator	24.0	.035A	600.0	T2	Tel. Slide No. 3	C-2F		1.69	7000	80
	12071			50		TEL/24PSB	Telephone Indicator	24.0	.073A	3000.0	T2	Tel. Slide No. 5	C-2F		1.11	10000	80
	12761			50		TEL/28MB	Telephone Indicator	28.0	.04A	0.3	T2 1/2	Miniature Bayonet (Ba9s)	C-2F		1.19	5000	80
	12072			50		TEL/28PSB	Telephone Indicator	28.0	.04A	1600.0	T2	Tel. Slide No. 5	C-2F		1.11	5000	80
	29041			50		TEL/48C2	Telephone Indicator	48.0	.035A	750.0	T2	Tel. Slide No. 3	C-2F		1.69	5000	80
	12075			50		TEL/48PSB	Telephone Indicator	48.0	.05A	1800.0	T2	Tel. Slide No. 5	C-7A		1.11	10000	80

For the most up-to-date product information, see www.gelighting.com.
All footnotes, warning and caution notices found at the end of this section (page 9-16).

Miniature Lamps (continued)

Order Code			Case Qty														
Blister	Unit	Bulk	BP	Unit	Bulk	GE Lamp No.	Primary Application	Volts	Amps (A) or Watts (W)	MSCP	Bulb	Base	Filament	LCL (in)	MOL (in)	Rated Life (hrs)	Footnotes, Warning and Caution Notices
	12076			50		TEL/60MB	Telephone Indicator	60.0	.05A	0.7	T2 1/2	Miniature Bayonet (Ba9s)	C-7A		1.19	7500	80
	12077			50		TEL/60PSB	Telephone Indicator	60.0	.05A	1800.0	T2	Tel. Slide No. 5	C-7A		1.11	7500	80
	12078			50		TEL/120MB	Telephone Indicator	120.0	.025A	0.4	T2 1/2	Miniature Bayonet (Ba9s)	CC-7A		1.19	7500	80
	12080			50		TEL/120PSB	Telephone Indicator	120.0	.025A	1000.0	T2	Tel. Slide No. 5	CC-7A		1.11	7500	80
27562		35030	48		2000	W3W	Auto, ECE	13.5	3W	1.8	T3 1/4	Wedge (W2.1x9.5d)	C-2V	0.50	1.06	1000	
27563		28759	48		2000	W5W	Auto, ECE	13.5	5W	4.0	T3 1/4	Wedge (W2.1x9.5d)	C-2V	0.50	1.06	300	
		26353			1000	W16W	Auto, ECE	13.5	16W	24.6	T5	Wedge (W2.1x9.5d)	C-2F	0.81	1.49	250	121
		20280			1000	W16W	Auto, ECE	13.5	16W	24.6	T5	Wedge (W2.1x9.5d)	C-2F	0.81	1.49	250	121
		20279			1000	WY5W	Auto, ECE, Amber	13.5	5W	3.0	T3 1/4	Wedge (W2.1x9.5d)	C-2V	0.50	1.06	300	

Sealed Beam Lamps[1]

Product Code		Quantity		GE Lamp No.	Bulb	Applications	Volts	Watts	MBCP	Base	MOL (in)	Rated Life (hrs)	Spread to 10% MBCP		Footnotes, Warning and Caution Notices
Unit	Bulk	Unit	Bulk										Horizontal	Vertical	
18511		6		4000	PAR46	Headlamp-Low beam	12.8/12.8	38/60	SAE	3 Contact Lugs	4.00	200/320			4
24327		12		4013	PAR46	Tractor, Flood	6.4	25	800	Screw Terminals	3.75	300	80°	20°	
	24338		60	4014	PAR36	Emergency Building Light	6.4	18	1500	Screw Terminals	2.75	200	50°	25°	
24369		12		4019	PAR46	Tractor	6.2	30	1200	Screw Terminals	3.75	300	Trapezoidal		23
38418		12		4040	PAR46	Truck, Low beam	12.8/12.8	38/60	SAE	3 Contact Lugs	4.00	300/500			4
39585	39586	12	60	4042	PAR36	Emergency Building Light	6.4	12	1100	Screw Terminals	2.75	150	45°	20°	
40588	40589	12	60	4044	PAR36	Emergency Building Light	12.0	12	1100	Screw Terminals	2.75	150	50°	25°	
10540	10541	12	60	4044-1	PAR36	Emergency Building Light	12.0	12	1100	Slip-on Terminals	2.75	150	50°	25°	
25051		12		4313	PAR36	Aircraft Landing	13.0	250	140000	Screw Terminals	2.75	25 h	16°	7°	302
39366	39367	12	60	4340	PAR36	Electric Truck Worklight	48.0	80	2500	Slip-on Terminals	2.75	400	Trapezoidal		15
39362	39363	12	60	4350	PAR36	Electric Truck Worklight	36.0	60	2100	Slip-on Terminals	2.75	400	Trapezoidal		15
12961		12		4402A	PAR36	CIM Signal	28.0	50	1000	Screw Terminals	2.75	400	50°	25°	
24425	24423	12	60	4405	PAR36	Spotlamp	12.8	30	50000	Screw Terminals	2.75	100	6°	5°	167
24430	24428	12	60	4406	PAR36	Tractor ,Flood	12.8	35	600	Screw Terminals	2.75	300	80°	30°	4
24439		12		4410	PAR36	Backup, Tractor Flood	12.8	35	600	Screw Terminals	2.75	300	80°	30°	4
24448	24443	12	60	4411	PAR36	Tractor	12.8	35	3000	Screw Terminals	2.75	300	Trapezoidal		4
37889	37890	12	60	4411-1	PAR36	Tractor	12.8	35	3000	Slip-on Terminals	2.75	300	Trapezoidal		4
29040		12		4411-3	PAR36	Tractor	12.8	35	3000	Combination	2.75	300	Trapezoidal		4
24454	24453	12	24	4412	PAR46	Fog	12.8	35	11000	Screw Terminals	3.75	300	40°	7°	167
24460	24459	12	24	4412A	PAR46	Fog, yellow	12.8	35	8800	Screw Terminals	3.75	300	40°	7°	167
22981	24464	12	24	4413	PAR46	Tractor ,Flood	12.8	35	1100	Screw Terminals	3.75	300	80°	20°	4
24478	24477	12	60	4414	PAR36	Garden	12.8	18	1500	Screw Terminals	2.75	300	50°	25°	
24487		12		4414R	PAR36	Warning Signal, Red Lens	12.8	18	275	Screw Terminals	2.75	300	50°	25°	
22982	24490	12	60	4415	PAR36	Fog	12.8	35	9000	Screw Terminals	2.75	300	40°	5°	167
24499	24497	12	60	4415A	PAR36	Truck Fog, Amber Lens	12.8	35	7000	Screw Terminals	2.75	300	40°	5°	167
22983	24503	12	60	4416	PAR36	Narrow Spot	12.8	30	35000	Screw Terminals	2.75	300	11°	4°	
	34901		60	4416-1	PAR36	Warning Signal, Narrow Spot	12.8	30	35000	Slip-on Terminals	2.75	300	11°	4°	
24506		12		4416A	PAR36	Signal, Amber	12.8	30	26000	Screw Terminals	2.75	300	11°	4°	
24513		12		4416R	PAR36	Signal, Red	12.8	30	4000	Screw Terminals	2.75	300	11°	4°	
24531	24525	12	24	4419	PAR46	Tractor	12.8	35	1600	Screw Terminals	3.75	300	Trapezoidal		4
24539		12		4421	PAR46	Truck	13.0	100	23000	Slip-on Terminals	3.75	300	50°	7°	109,167
24542		12		4422	PAR36	Tractor	12.8	35	600	Screw Terminals	2.75	300	75° Cone		4
24572		12		4434A	PAR46	Bus, Red Lens	12.8	40	1000	Screw Terminals	3.75	100	55°	25°	
24577	24576	12	24	4435	PAR46	Pin Spotlight	12.8	30	75000	Screw Terminals	3.75	100	5°	5°	167
24582		12		4436	PAR46	Signal	12.8	35	60000	Screw Terminals	3.75	300	10°	4°	
39932	39933	12	60	4440X	PAR36	Tractor	12.8/12.8	40/40	6000/4500	3 Contact Lugs	3.00	320/320	40°/33°	7°/9°	4
39748		12		4440X-1	PAR36	Tractor	12.8/12.8	40/40	6000/4500	3 Slip-on Terminals	2.75	320/320	40°/33°	7°/9°	4
37046	37047	12	60	4446	PAR36	Emergency Building Light	12.8	25	400	Screw Terminals	2.75	300	80°	80°	
40176		12		4460X	PAR36	Tractor	12.8/ 12.8	40 40	0	3 Screw Terminals	2.75	320/320	22°	13°	4
24592		12		4461	PAR36	Tractor	12.8	60	6000	Screw Terminals	2.7500 cm	300	Trapezoidal		4
24596		12		4466	PAR36	Tractor	12.8	60	1000	Screw Terminals	2.75	300	80°	30°	4
24613		12		4478	PAR46	CIM	13.0	60	1600	2 Contact Lugs	4.00	800	56°	32°	4
24627		12		4502	PAR36	Headlamp Military	28.0	50	10000	Screw Terminals	2.75	400	40°	7°	
24640	24638	12	60	4505	PAR36	Aircraft Navigation	28.0	50	45000	Screw Terminals	2.75	400	11°	5°	
24650	24649	12	60	4509	PAR36	Aircraft Landing	13.0	100	110000	Screw Terminals	2.75	25	12°	6°	167
41503		12		4509X	PAR36	Marine Spotlight	13.0	100	110000	Screw Terminals	2.75	25	12°	6°	167
11524		12		4509Y	PAR36	Emergency Vehicle	13.0	100		Screw Terminals	2.75	25	12°	6°	

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Miniature and Sealed Beam Lamps

Sealed Beam Lamps (continued)

Product Code		Quantity		GE Lamp No.	Bulb	Applications	Volts	Watts	MBCP	Base	MOL (in)	Rated Life (hrs)	Spread to 10% MBCP		Footnotes, Warning and Caution Notices
Unit	Bulk	Unit	Bulk										Horizontal	Vertical	
24654	24653	12	60	4510	PAR36	Tractor	6.4	25	800	Screw Terminals	2.75	300	80°	20°	
24663	24661	12	60	4511	PAR36	Tractor	6.2	30	2300	Screw Terminals	2.75	300	Trapezoidal		23
24673	24671	12	60	4515	PAR36	Pin Spot	6.4	30	55000	Screw Terminals	2.75	100	5°	5°	167
24678		12		4516	PAR36	Narrow Spot	6.2	30	45000	Screw Terminals	2.75	300	9°	4°	
24690		12		4519	PAR36	Marine	13.0	100	30000	Screw Terminals	2.75	25	40°	7°	
24700		12		4522	PAR46	Aircraft Landing	13.0	250	290000	Screw Terminals	3.13	25	12°	10°	92,138,167
24721		12		4530	PAR46	Signal, Flashing	26.0	139	100000	Screw Terminals	3.75	50	11°	11°	
24726		12		4531	PAR46	Headlamp, Military	12.5	40	30000	Screw Terminals	3.75	400	20°	5°	
19628		12		4532	PAR46	Aircraft	28.0/28.0	250/150	75000/14500	Screw Terminals	3.75	100/100	12°/16°	19°/19°	
24735	24733	12	24	4535	PAR46	Pin Spot	6.4	30	95000	Screw Terminals	3.75	100	20°	4°	167
24742	24775	12		4537	PAR46	Aircraft Landing	13.0	100	200000	Screw Terminals	3.13	25	11°	6°	167
40822		12		4537-2	PAR46	Spotlamp	13.0	100	200000	Screw Terminals	3.13	25	11°	6°	
39022		12		4537X	PAR46	Marine	13.0	100	200000	Screw Terminals	3.13	25	11°	6°	167
24756		12		4541	PAR56	Aircraft Landing	28.0	450	470000	Screw Terminals	4.50	25	15°	11°	167,302
24764		12		4543	PAR56	Marine	12.5	100	250000	Screw Terminals	4.50	50	9°	5°	
24768		12		4545	PAR56	Marine, Hand Lantern	12.0	100	225000	Screw Terminals	4.50	100	9°	5°	167
24780	24783	12	60	4546	PAR36	Hand Lantern	4.7	2	6300	Screw Terminals	2.75	100	3°	3°	
24770		12		4546-1	PAR36	Hand Lantern	4.7	2	6300	Slip-on Terminals	2.75	100	3°	3°	
24795		12		4551	PAR46	Aircraft Taxiing	28.0	250	75000	Screw Terminals	3.75	25	50°	10°	138
40576		12		4552	PAR64	Aircraft Landing	28.0	250	500000	Screw Terminals	3.75	25	7°	8°	138,167
24799		12		4553	PAR46	Aircraft Landing	28.0	250	300000	Screw Terminals	3.13	25	11°	12°	138,167
24802		12		4554	PAR46	Aircraft Taxiing	28.0	450	90000	Screw Terminals	3.13	25	50°	16°	302
40583		12		4555	PAR64	Aircraft Landing	115.0	1000	600000	Screw Terminals	3.75	25	20°	11°	138,302
40581		12		4557	PAR64	Aircraft Landing	28.0/28.0	1000/400	540000/100000	3 Screw Terminals	3.75	25 /100	25°/100°	11°/25°	138,302
40578		12		4559	PAR64	Aircraft Landing	28.0	600	600000	Screw Terminals	3.75	25	11°	12°	138,167
24828		12		4570	PAR46	Aircraft Taxiing	28.0	150	32000	Screw Terminals	3.75	300	50°	9°	
24830		12		4571	PAR46	CIM Flood	28.0	150	7000	Screw Terminals	3.75	300	80°	25°	
24833		12		4572	PAR46	Military	28.0	150	4500	Screw Terminals	3.75	300	55°	55°	
25005	25007	12	24	4578	PAR46	CIM Flood	28.0	60	1600	2 Contact Lugs	4.00	800	55°	30°	
25009		12		4579	PAR46	CIM Headlamp	28.0/28.0	80/60	24000/11000	3 Contact Lugs	4.00	400/400	25°/7°	25°/7°	
24859		12		4580	PAR46	Aircraft Landing	28.0	450	400000	Screw Terminals	3.75	10	13°	14°	302
24862		12		4581	PAR46	Aircraft Landing	28.0	450	400000	Screw Terminals	3.13	10	13°	14°	302
24853		12		4582	PAR46	Aircraft Flood	28.0	450	20000	Screw Terminals	3.75	10	50°	55°	302
24867		12		4587	PAR36	Aircraft Taxiing	28.0	250	40000	Screw Terminals	2.75	25 h	40°	13°	302
24873	24871	12	60	4589	PAR36	Aircraft Flood	28.0	50	5000	Screw Terminals	2.75	400	Trapezoidal		
	23509		60	4589-1	PAR36	Aircraft Flood	28.0	50	5000	Slip-on Terminals	2.75	400	Trapezoidal		
24882		12		4591	PAR36	Aircraft Landing	28.0	100	90000	Screw Terminals	2.75	25 h	12°	6°	
24887		12		4593	PAR36	Aircraft Refueling	28.0	50	1500	Screw Terminals	2.75	400	80°	30°	
24891		12		4594	PAR36	Aircraft Navigation	28.0	100	70000	Screw Terminals	2.75	300	13°	7°	
24892		12		4595	PAR36	Aircraft Navigation	13.0	100	60000	Screw Terminals	2.75	300	14°	6°	
24898		12		4596	PAR36	Aircraft Landing	28.0	250	150000	Screw Terminals	2.75	25 h	11°	12°	302
24964		12		4626	PAR36	Aircraft Taxiing	28.0	150	25000	Screw Terminals	2.75	300	40°	9°	
24966		12		4627	PAR36	Aircraft Flood	28.0	100	3000	Screw Terminals	2.75	300	80°	30°	
33284		12		4635	PAR46	Aircraft Landing	16.5	450	325000	Screw Terminals	3.75	25 h	14°	15°	302
19632	16407	12	672	4636-3	PAR46	Emergency Vehicle	14.0	80	90000	Combination	3.75	200	9°	7.5°	
18517		6		4651	165mm	Headlamp-High beam	12.8	50	SAE	2 Contact Lugs	4.80	200			4,307
18518		6		4652	165mm	Headlamp-Low beam	12.8/12.8	40/60	SAE	3 Contact Lugs	4.80	200/320			4,307
39906	39907	12	60	4700	PAR36	Spot/ Flood	13.0/13.0	100/100	100000/50000	3 Screw Terminals	2.75	25/250	12°/17°	7°/18°	
46427		12		4713	PAR36	Aircraft Logo	28.0	150	4200	Screw Terminals	2.75	300	50°	65°	
44724		12		4752	PAR36	CIM Flood	28.0	60	2000	Screw Terminals	2.75	800	50°	25°	
24973		12		4800	PAR56	Military Headlamp	28.0/28.0	50/40	SAE	3 Contact Lugs	5.00	400/400			
24980		12		4811	PAR36	Military Headlamp	28.0/28.0	110/55	SAE	3 Contact Lugs	3.00	400/400			
24981	24982	12	60	4825R	PAR36	CIM Stop/Tail, Red Lens	28.0/28.0	50/18	200/40	3 Screw Terminals	2.75	200/200			
24995		12		4880	PAR46	CIM Headlamp	28.0	60	6000	2 Contact Lugs	4.00	800			
45110	45111	12	576	4912-1	165mm	Truck Fog	12.8	50	14000	Slip-on Terminals	4.53	300	40°	7°	167,307
	45113		16	4913-1	165mm	Tractor Flood	12.8	50		Slip-on Terminals	4.53	400	80°	20°	4,307
45116	16195	12	576	4921-1	165mm	Truck	13.0	100	25000	Slip-on Terminals	4.53	300	40°	7°	109,307
11639		6		5001	PAR46	Headlamp-High beam	12.8	50		2 Contact Lugs	4.00	300			4
16152		12		5557	PAR64	Aircraft Landing	28.0/28.0	1000/40	540000/100000	3 Screw Terminals	3.75	50/100	11° 25°	15° 11°	138,302
25114		12		6006	PAR56	Headlamp-High/Low beam	6.1/6.2	50/40	SAE	3 Contact Lugs	5.00	300/500			
18519		6		6014	PAR56	Headlamp-High/Low beam	12.8/12.8	60/50	SAE	3 Contact Lugs	5.00	320/150			4
38416	38607	12	432	6015	PAR56	Truck-High/Low beam	12.8/12.8	50/50	SAE	3 Contact Lugs	5.00	300/500			4
25153		12		6045	PAR56	Signal	26.0	170	230000	Screw Terminals	4.50	100	9°	8°	
18521	43867	6	448	6052	200mm	Headlamp-High/Low beam	12.8/12.8	65/55	SAE	3 Contact Lugs	5.44	150/320			4,307
40190	40191	12	60	7400	PAR36	Signal-rotating beacon	12.8	35	33000	Slip-on Terminals	2.75	300	12°	5°	

For the most up-to-date product information, see www.gelighting.com.
All footnotes, warning and caution notices found at the end of this section (page 9-16).

Sealed Beam Lamps (continued)

Product Code		Quantity		GE Lamp No.	Bulb	Applications	Volts	Watts	MBCP	Base	MOL (in)	Rated Life (hrs)	Spread to 10% MBCP		Footnotes, Warning and Caution Notices
Unit	Bulk	Unit	Bulk										Horizontal	Vertical	
	42385		60	7400-1	PAR36	Signal-rotating beacon	12.8	35	33000	Screw Terminals	2.75	300	12°	5°	
39987	39988	12	60	7414Y	PAR36	Signal-Amber Lens	12.8	18	1000	Screw Terminals	2.75	300	50°	25°	
41865	41866	12	60	7613	PAR36	Emergency Building Light	6.0	8	400	Screw Terminals	2.75	50	30°	20°	
45101	45102	12	60	7613-1	PAR36	Emergency Building Light	6.0	8	400	Slip-on Terminals	2.75	50	30°	20°	
11421	11422	12	60	7672-1	PAR36	Emergency Building Light	6.0	7	350	Slip-on Terminals	2.75	50	30°	20°	
22386		6		H4351	140mm	Headlamp-Low beam	12.8	55	SAE	Right Angle Lugs	4.00	500			307
10211		6		H4351LH	140mm	Auto export only	12.8	55		Right Angle Lugs	4.00	500			307
22387		6		H4352	140mm	Headlamp-High beam	12.8	65	SAE	Right Angle Lugs	4.00	150			307
	18350		48	H4360	140mm	Tractor	12.8	38	2000	2 Right Angle Lugs	3.00	320	Trapezoidal		307
15129		12		H4405	PAR36	Very Narrow Spot	12.8	30	66000	Screw Terminals	2.75	100	7°	4°	167,307
	17674		60	H4460X	PAR36	Tractor	12.8/12.8	40/40	11000/8500	3 Screw Terminals	2.75	320/320	22°/22°	10°/13°	4,307
15133		12		H4515	PAR36	Very Narrow Spot	6.4	30	67000	Screw Terminals	2.75	100	5.5°	4°	167,307
18532	45027	6	576	H4651	165mm	Headlamp-High beam	12.8	50	SAE	2 Contact Lugs	4.80	200			4,307
46375		6		H4651SB	165mm	Headlamp-High beam	12.8	50	SAE	2 Contact Lugs	4.80	200			4,307
18533	49810	6	576	H4656	165mm	Headlamp-Low beam	12.8/12.8	35/35	SAE	3 Contact Lugs	4.80	200/320			4,307
14753		6		H4656HO	165mm	Headlamp-Low beam	12.8/12.8	40/55	SAE	3 Contact Lugs	4.80	200/700			4,307
45475		6		H4656SB	165mm	Headlamp-Low beam	12.8/12.8	40/55	SAE	3 Contact Lugs	4.80	75/200			4,307
25098		6		H4656 NH	165mm	Headlamp Nighthawk™	12.8/12.8	40/55	SAE	3 Contact Lugs	4.80				307
97695		6		H4656 NHS	165mm	Headlamp Nighthawk™ Sport	12.8/12.8	40/55	SAE	3 Contact Lugs	4.80				307
18535	22879	6	576	H4666	165mm	Headlamp-High/Low beam	12.8/12.8	65/55	SAE	3 Contact Lugs	4.80	150/320			4,166,307
28157		6		H4666 NH	165mm	Headlamp Nighthawk™	12.8/12.8	65/55	SAE	3 Contact Lugs	4.80				166,307
97694		6		H4666 NHS	165mm	Headlamp Nighthawk™ Sport	12.8/12.8	65/55	SAE	3 Contact Lugs	4.80				166,307
18536	48533	6	480	H4701	150mm	Headlamp-High beam	12.8	65	SAE	2 Lugs	3.40	150			307
18538	48534	6	480	H4703	150mm	Headlamp-Low beam	12.8	55	SAE	2 Lugs	3.40	320			307
18522		6		H5001	PAR46	Headlamp-High beam	12.8	50	SAE	2 Contact Lugs	4.00	200			
18523		6		H5006	PAR46	Headlamp-Low beam	12.8/12.8	35/35	SAE	3 Contact Lugs	4.00	200/320			4,307
19428	19559	6	432	H5024	PAR56	Truck-High/Low beam	12.8/12.8	65/42	SAE	3 Contact Lugs	5.00	400/2000			4,307
19411	19556	6	576	H5051	165mm	Truck- High beam	12.8	50	SAE	2 Contact Lugs	4.80	500			4,307
19429	19558	6	448	H5054	200mm	Truck-High/Low beam	12.8/12.8	65/42	SAE	3 Contact Lugs	5.44	400/2000			4,307
19412	19557	6	576	H5062	165mm	Truck-High/Low beam	12.8/12.8	40/55	SAE	3 Contact Lugs	4.80	400/2000			4,307
	41453		448	H5360	140mm	Tractor Worklight	12.8	38	2000	2 Right Angle Lugs	3.00	900	Trapezoidal		307
18525		6		H6024	PAR56	Headlamp-High/Low beam	12.8/12.8	65/35	SAE	3 Contact Lugs	5.00	150/320			4,307
28153		6		H6024 NH	PAR56	Headlamp Nighthawk™	12.8/12.8	65/35	SAE	3 Contact Lugs	5.00				307
97693		6		H6024NHS	PAR56	Headlamp Nighthawk™ Sport	12.8/12.8	65/35	SAE	3 Contact Lugs	5.00				307
18534	11545	6	448	H6054	200mm	Headlamp-High/Low beam	12.8/12.8	65/35	SAE	3 Contact Lugs	5.44	150/320			4,307
14752		6		H6054HO	200mm	Headlamp-High/Low beam	12.8/12.8	65/55	SAE	3 Contact Lugs	5.44	150/700			4,307
45477		6		H6054SB	200mm	Headlamp-High/Low beam	12.8/12.8	65/55	SAE	3 Contact Lugs	5.44	75/200			4,307
25097		6		H6054 NH	200mm	Headlamp Nighthawk™	12.8/12.8	65/55	SAE	3 Contact Lugs	5.44				307
97692		6		H6054NHS	200mm	Headlamp Nighthawk™ Sport	12.8/12.8	65/55	SAE	3 Contact Lugs	5.44				307
43561	43562	12	60	H7550	PAR36	Hand Lantern	6.0	8	25000	Screw Terminals	2.75	50	3°	3°	307
	23541		60	H7550-1	PAR36	Hand Lantern	6.0	8	25000	Slip-on Terminals	2.75	50	3°	3°	307
43564	43565	12	60	H7551	PAR36	Emergency Building Lighting	6.0	8	550	Screw Terminals	2.75	50	30°	20°	307
43567		12		H7552	PAR36	Emergency Building Lighting	6.0	10	650	Screw Terminals	2.75	50	30°	20°	307
43570	43571	12	60	H7553	PAR36	Emergency Building Lighting	6.0	12	850	Screw Terminals	2.75	50	30°	20°	307
	43574		60	H7554	PAR36	Emergency Building Lighting	6.0	20	1400	Screw Terminals	2.75	50	30°	20°	307
44642	44643	12	60	H7555	PAR36	Emergency Building Lighting	12.0	8	550	Screw Terminals	2.75	50	30°	20°	307
44924	44925	12	60	H7556	PAR36	Emergency Building Lighting	6.0	6	400	Screw Terminals	2.75	50	30°	20°	307
12720	12721	12	60	H7557	PAR36	Emergency Building Lighting	12.0	12	850	Screw Terminals	2.75	50	30°	20°	307
42841	42842	12	60	H7600	PAR36	Signal, Rotating Beacon	12.8	38	60000	Screw Terminals	2.75	300	9°	4.5°	307
43576	43577	12	60	H7604	PAR36	Very Narrow Spot	12.8	50	100000	Screw Terminals	2.75	100	7°	5°	307
14616	48580	6	60	H7606	PAR36	Tractor Flood	12.8	50	1000	Screw Terminals	2.75	400	80°	30°	4,307
	17672		60	H7607	PAR36	Tractor Flood	12.8	65		Screw Terminals	2.75	600	Non-symmetrical		4,307
14617	43583	6	24	H7609	PAR46	Tractor Flood	12.8	50	2200	Screw Terminals	3.75	400	80°	20°	4,307
14618	43586	6	60	H7610	PAR36	Tractor	12.8	50	5200	Screw Terminals	2.75	400	Trapezoidal		4,307
49695		12		H7612	PAR46	Truck Fog	12.8	38	15000	Screw Terminals	3.75	450	40°	7°	307
49731	49732	12	60	H7614	PAR36	Wide Flood	12.8	50	2000	Screw Terminals	2.75	100	70°	30°	307
42838	42839	12	60	H7616	PAR36	Very Narrow Spot	12.8	38	70000	Screw Terminals	2.75	300	7°	4°	307
14619	43589	6	24	H7619	PAR46	Tractor	12.8	50	6000	Screw Terminals	3.75	400	Trapezoidal		4,307
	45058		24	H7621-1	PAR46	Truck	12.8	50		Slip-on Terminals	3.75	200	50°	7°	4,109,307
43591	43592	12	24	H7635	PAR46	Very Narrow Spot	12.8	50	160000	Screw Terminals	3.75	100	6.5°	4°	307
	18022		24	H7635X	PAR46	Spot. Shielded Filament	12.8	50	160000	Screw Terminals	3.75	100	6.5°	4°	167,307
	13426		16	H7921-1	165mm	Truck Special Service	12.8	50		Slip-on Terminals	4.53	200	35°	5°	4,109,307

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Sealed Beam Lamps (continued)

Product Code		Quantity		GE Lamp No.	Bulb	Applications	Volts	Watts	MBCP	Base	MOL (in)	Rated Life (hrs)	Spread to 10% MBCP		Footnotes, Warning and Caution Notices
Unit	Bulk	Unit	Bulk										Horizontal	Vertical	
47460	14892	6	16	H7935-1	165mm	Narrow Spot	12.8	50	175000	Slip-on Terminals	4.53	100	6.5°	3.5°	307
15767	15763	12	48	H9405	150mm	Spotlamp	12.8	50	100000	2 Right Angle Lugs	3.00	100	7°	4°	307
15769	15768	12	48	H9406	150mm	Tractor Flood	12.8	50	1350	2 Right Angle Lugs	3.00	400	70°	30°	4,307
15771	15770	12	48	H9411	150mm	Tractor Trapezoidal Beam	12.8	50	5400	2 Right Angle Lugs	3.00	400	Trapezoidal		4,307
	15772		48	H9414	150mm	Tractor Flood	12.8	50		2 Right Angle Lugs	3.00	400	45°	20°	4,307
16484	16483	12	48	H9415	150mm	Truck Fog	12.8	38	12000	2 Right Angle Lugs	3.00	200	45°	5°	4,307
17988		12		H9415A	150mm	Truck Fog, Amber	12.8	38		2 Right Angle Lugs	3.00	200	45°	5°	4,307
16976	16978	12	48	H9420	150mm	Truck, Driving	12.8	50	47000	2 Right Angle Lugs	3.00	200	15°	5°	4,307
16482	16204	12	48	H9421	150mm	Truck, Special Service	12.8	50	4000	2 Right Angle Lugs	3.00	200	45°	8°	4,109,307
22109		12		Q4509	PAR36	Aircraft Landing	13.0	100	140000	Screw Terminals	2.75	100	7°	7°	301
37706		12		Q4554	PAR46	Aircraft Taxing	28.0	450	65000	Screw Terminals	2.63	100	50°	11°	301
40579		12		Q4559	PAR64	Aircraft Landing	28.0	600	600000	Screw Terminals	3.75	100	12°	8°	138,301
42552		12		Q4559X	PAR64	Aircraft Landing	28.0	600	765000	Screw Terminals	3.75	100	11°	7.5°	139,301
41097		12		Q4566	PAR46	Aircraft Logo	28.0	450	150000	Screw Terminals	3.32	1000	16°	12°	301
37372		12		Q4597	PAR46	Aircraft Flood	28.0	450	16000	Screw Terminals	3.32	1000	60°	35°	301
40577		12		Q4629	PAR64	Aircraft Logo	28.0	600	20000	Screw Terminals	4.81	1000	55°	35°	301
34537		12		Q4631	PAR36	Aircraft Landing	13.0	250	80000	Screw Terminals	2.75	500	13°	12°	301
39112		12		Q4632	PAR36	Aircraft Logo	13.0	250	75000	Screw Terminals	2.75	500	14°	12°	301
36271		12		Q4681	PAR46	Aircraft Landing	28.0	450	310000	Screw Terminals	2.63	50	15°	9°	301
41452		12		Q5551	PAR46	Aircraft Taxing	28.0	250	60000	Screw Terminals	3.32	100	48°	12°	301
16784		12		Q5559	PAR64	Aircraft Landing	28.0	600	650000	Screw Terminals	3.75	200	11°	7.5°	138,301
29130	22227	12	60	Q7558	PAR36	Landscape Lighting	12.0	18	365	Screw Terminals	2.75	5000	55°	45°	301
28113		12		Q7559	PAR36	Landscape Lighting	12.0	18	120	Screw Terminals	2.75	5000	70°	70°	301
28111		12		Q7560	PAR36	Landscape Lighting	12.0	18	1900	Screw Terminals	2.75	5000	24°	23°	301
28874		12		Q7561	PAR36	Landscape Lighting	12.0	18	11000	Screw Terminals	2.75	5000	9°	8°	301

Footnotes

1 Special ballast required per ECE R99.
2 B3 life, not average life.
4 Life at 14 volts.
10 Life at 5 volts.
11 Filament vertical.
12 Average overall length.
13 Filament supported.
14 This lamp may not be suitable for some uses because of its excessive wattage requirements for the bulb size.
15 This lamp may not be suitable for some uses because of its limited mechanical strength.
17 Filament shielded.
23 Life at 7 volts.
32 Designed and rated for operation in supplementary cathode preheat circuits.
33 Connections of major and minor filament to base are reversed from those for automotive lamps with Double Contact Index bases. Burn base down to horizontal.
44 Life at 6.6 volts.
78 ANSI specifies .38" LCL and .63" MOL.
79 Life shown is AC voltage only. DC life will be approx. 50% of AC.
80 Light output is approx. end foot candles, not spherical MSCP.
92 Filament segments parallel.
109 Special fixture required for highway use.
110 To be used with variable load flasher in applications where bulb outage indication is not required, or with an appropriate fixed load flasher. Flash rate may be altered if used with incorrect fixed load flasher.
113 This is a flange seal wire terminal lamp. When unbased lamps such as these are handled and wired into a device, damage can be kept to a minimum by allowing sufficient clearance so that no physical strain or excessive heat is placed on the exhaust tube, exhaust tube tip, or glass seal; by taking care in mounting lamp in equipment so that any material touching the glass is compatible in thermal expansion; and by avoiding excessive tensile strain on the lead wires.
116 Life tests are performed on DC voltage only.
121 To minimize the possible adverse effects on lamp life due to excessive wattage in relationship to bulb size: Burn Base Down to Base 45° Above Horizontal. Regardless of burning position, this excessive wattage will abnormally decrease light output during lamp life.
122 This is a wire terminal lamp. The glass-to-metal seal (and tip where applicable) are susceptible to damage by thermal shock, and soldering or welding within 1/8" of the glass should be avoided as glass cracks and air leaks may develop. Solderability may be adversely affected by storage for an extended period in excess of six months or by storage in a high-humidity environment. Lamps with tinned leads would be subject to these storage restrictions. Nickel-plated leads are not recommended for soldering; however, their ability to be welded is not affected by these storage restrictions.
124 .028" metal pins spaced 44mm (.157") apart. GE's two-pin lamps might not be compatible with all G-4 sockets since many sockets do not provide clearance for the exhaust tip.
128 Output is minimum 1/4" spot at .100" from bulb top.
132 Paint may peel, craze or discolor when subjected to excessive moisture, heat, and freezing in housings with plugged drain holes or which otherwise leak or trap moisture.
138 Life Test Conditions: Cycled 5 minutes on, 5 off.

Footnotes (continued)

139 Life Test Conditions: Cycled 20 minutes on, 20 off.
147 Differs from ANSI.
160 Filament will generate specified MSCP in a non-shielded bulb.
162 Life based on three hours of burning per start. MSCP at 100 hours. Designed and rated for operation in supplementary cathode preheat circuits. Use these lamps with auxiliary equipment specially designed to produce proper electrical values according to established specification. For total load, add auxiliary watts to lamp watts.
166 Contact Lugs are angled.
167 Filament shielded.

Warning and Caution Notices

301

⚠ WARNING

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury
- Turn power off if glass bulb is broken. Remove and dispose of lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken

⚠ CAUTION

Risk of burn
- Allow lamp/fixture to cool before handling

Lamp may shatter and cause injury if broken
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

302

⚠ WARNING

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

Unexpected lamp rupture may cause injury, fire, or property damage
- Avoid contact with glass during operation
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product

304

⚠ WARNING

Risk of fire
- Keep combustible materials away from lamp
- Use in fixture rated for this product

Lamp emits UV radiation which may cause eye/skin injury
- Avoid exposure of eyes and skin to unshielded lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage
- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn
- Allow lamp/fixture to cool before handling

For Best Performance
- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

305

⚠ CAUTION

Lamp may shatter and cause injury if broken
- Do not use excessive force when installing lamp

306

⚠ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage
- Use eye protection when handling lamp
- Do not exceed rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn
- Allow lamp/fixture to cool before handling

307

⚠ WARNING

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container

Warning and Caution Notices (continued)

308

⚠ WARNING

Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not turn on lamp until fully installed
- Keep away from children
- Use protective screen when handling

⚠ CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

For Best Performance

- Limit seal temperature to 350°C
- Maintain 250°C minimum bulb wall temperature
- Remove fingerprints from bulb with grease-free solvent
- Operate at design voltage

309

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

⚠ CAUTION

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

310

⚠ WARNING

Risk of electric shock

- Turn power off before inspection, installation or removal

Risk of fire

- Use in fixture rated for this product

A damaged lamp emits UV radiation which may cause eye/skin injury

- Turn power off if glass bulb is broken. Remove and dispose of lamp

Pressurized lamp—unexpected rupture may cause injury, fire, or property damage

- Use eye protection when handling lamp
- Do not exceed rated voltage
- Do not touch glass with bare hands
- Avoid direct water/liquid contact
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not use beyond rated life
- Do not turn on lamp until fully installed

⚠ CAUTION

Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed
- Turn power off before installing lamp

Lamp may rupture if used on wrong ballast

- Use only properly rated ballast

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Remove and install by grasping only plastic portion of the lamp
- Do not use excessive force when installing lamp

INSTRUCTIONS

FDA Warning

WARNING – This lamp can cause serious skin burn and eye inflammation from short-wave ultraviolet radiation if outer envelope of the lamp is broken or punctured and the arc tube continues to operate. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Certain types of lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available. 21 CFR 1040.30.

Hg – LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws

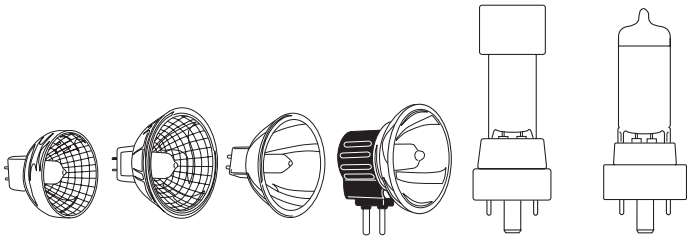
See: www.lamprecycle.org or 1-800-435-4448

Lamp should be installed by an automotive service specialist.

Projection Lamps

Projection Lamps

Lamp Locator

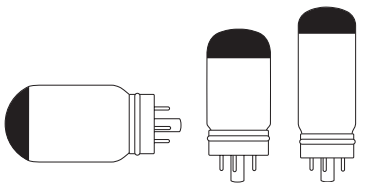


Mini Multi-Mirror® | Multi-Mirror® | Reflector | 2-Pin-Vented Base Reflector | 4-Pin Base CBA | 4-Pin Base BCK

Quartzline® Projection Lamps

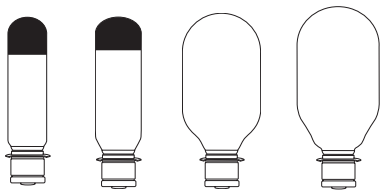
DAT / DAK
DAY / DAK

Incandescent Projection Lamps / 4-Pin Base



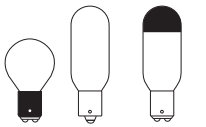
DEK / DFW / DHN | CAR | CZA / CZB

Incandescent Projection Lamps / 4-Pin Base – Proximity Reflector



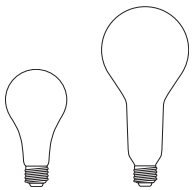
CZX / DAB | DDB | DRB DRC | DRS

Incandescent Projection Lamps / Medium Prefocus Base



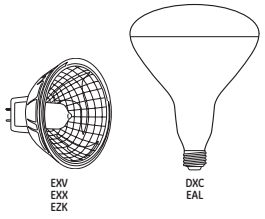
BLX
BLC
BNF | CDD | CBX/CBS

Incandescent Projection Lamps / Single or Double Contact Bayonet Base



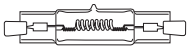
BAH
BBA
BCA
ECA | EBW
ECT

Standard Photofloods



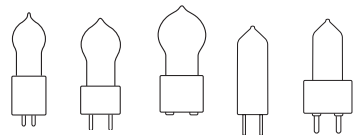
EXV
EXX
EZK | DXC
EAL

Reflector Photofloods



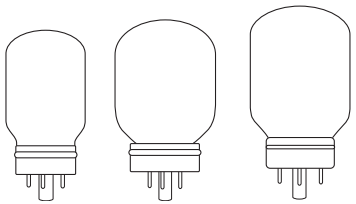
Double-Ended

Quartzline® Projection Lamps



G-6
G5.3 | G-7
GZ9.5 | G-7
2 Button | T-4
GY6.35 | T-4
GZ9.5

Quartzline® Projection Lamps – Single-Ended



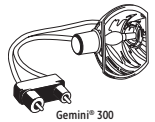
DFN / DFC/ DCH /
DJA / DFP | DLD / DFZ
GX17q | DJL
G17q

Incandescent Projection Lamps / 4-Pin Base – Focusing Reflector

DPT
Mog Base

Incandescent Projection Lamps / Misc.

Lamp Locator (continued)

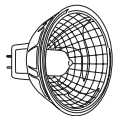


Gemini® 300
EZG

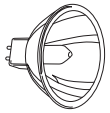
High-Intensity Gemini® Arc Lamps

MARC 350 / 16T
EZT

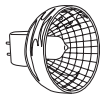
High-Intensity MARC™ Arc Lamps



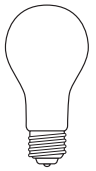
DDF ENH
EJL ESD
ELC ESJ
ELH EVW
EYA



EJV



EZF/EZJ



PH/211
PH/212
PH/213
BBA

PH/140

PH/111A

FAL
FFJ

Enlarger & Printer Lamps

Base Identification

Typical bases used on Projection lamps in this catalog are shown below along with their names and common abbreviations. Where the base is an ANSI standard type, the ANSI reference code (which is the same as the IEC base code) is also shown. ANSI reference codes conform to American National Standard C81.10. C81.30. C81.50 specifications for electric lamp bases and lampholders. Illustrations are not to scale.

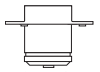
Candelabra (Cand.) E12/15

Double Contact Bayonet (D.C. Bay.) BA15d

Single Contact Bayonet (S.C. Bay.) BA15s

Candelabra Prefocus (S.C. Pref.) P30s
(D.C. Pref.) P30d

Medium E26s



Medium Prefocus P28/25

Mogul E39

4-Pin G17q (Std. Volts) GX17q (Low Volts)

Recessed Single Contact R7

Glass 2-Pin G6.35 (.040" diam. Pins) GY6.35 (.050" diam. Pins) GZ6.35 (Reflector Quartzline® lamps)

Miniature 2-Pin G5.3

GY5.3 2-Pin (Flat Pins)

GX5.3 2-Pin (Round Pins)

2-Button

2-Pin Prefocus GY & GZ9.5

2-Pin Vented G7.9 (Std. Volts) GX7.9 (Low Volts)

Light Center Length (LCL)

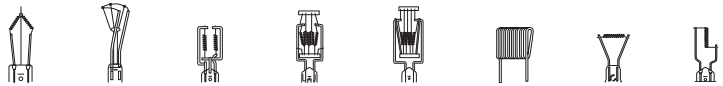
Light center length is the distance from the center of the light source to the point indicated below for the lamp base used. It is a measurement to which the lamp is designed and is subject to the manufacturer's tolerances.

Base Type	LCL Reference
All Screw Bases	Bottom base contact
Medium Prefocus	Top of base fins
S.C. or D.C. Bayonet	Top of base pins
2-Pin Prefocus	Bottom of base ceramic
Miniature 2-Pin	Bottom of base pins
Glass 2-Pin	Bottom of base pins
2-Button	Top of ceramic base to top of filament coil

Base Type	LCL Reference
2-Pin Vented	Bottom of base ceramic to lamp optical axis
4-Pin	Bottom edge of base cup
Locking 4-Pin	Bottom edge of base cup
S.C. , or D.C. Candelabra Prefocus	Plane of locating bosses on prefocus collar

Filament Identification

The configuration of the filament in all tungsten filament lamps (including Quartzline®) is identified by a prefix letter and a suffix number. The prefix letter indicates whether the filament wire is a single coil (C) or a coiled coil (CC). The suffix number indicates the form or arrangement of the filament coil or coils on its support structure. Illustrations are not to scale.



C-2V CC2-V | C-9 | 2C-8 2CC-8 | C-13 | C-13D | C-6 Oval | C-6 CC-6 | C-8 CC-8

Introduction

General Electric Projection Lamps are designed for a wide variety of applications...and now extending well beyond the original picture-taking and audio-visual projection uses into such fields as: fiber optical systems, graphic arts, video camera lights, airport runway markers, micrographics, photo printers and enlargers, medical/scientific instruments and many others.

The information contained in this section is designed to provide end-users, equipment manufacturers and lamp distributors and dealers with:

- Essential technical data on GE Projection Lamps (Quartzline®, Incandescent, MARC™ and Photoflood)
- Suggested substitutes for improved performance or discontinued lamps

The majority of Projection Lamps described herein are characterized by:

- Precisely manufactured, tailored filaments maximizing source brightness, optimum performance in precision optical devices
- High light-generating efficacy (lumens per watt)...to help minimize power requirements and heat generation
- Prefocus type bases, or rim-reference mounting for Multi-Mirror® lamps...to position the filament accurately in relation to the associated optics
- Design life Rated Life (per ANSI Standard)
- Lamps with internal or external reflectors (as in Multi-Mirror® and some 4-pin projection lamps) permitting high-efficiency illumination system designs with a minimum of additional optical control elements

Manufacturers and designers of equipment requiring lamps should select lamps of established design whenever possible for maximum economy, as well as for ease of replacement by their customers through regular trade channels. General Electric offers application engineering assistance to all customers for applying lamps in product design. Contact your local GE Lamp Representative for additional information or assistance.

Warning and Caution Notices Information

As with any product, certain precautions should be observed in the handling and use of GE Projection Lamps to provide optimum performance and safety. These are given in the Caution Notices that are printed on page 10-12.

Important Notice

This catalog contains accumulated data to March 2008. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps. For the latest lamp design data and information, contact your General Electric Lamp Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp for any particular application or use in any particular equipment, nor are our representatives authorized to make any such representations or give any such warranties.

Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make his own determination as to the suitability of a lamp for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products when it believes such charges will improve its products.

General Information

General Electric Projection Lamps are briefly described in the ANSI lamp index (pages 10-6– 10-7). More extensive descriptive and performance data are found in the lamp tables, which are organized as "families" of lamps with one or more features in common – such as Multi-Mirror® Quartzline®, Single-Ended Quartzline®, 4-Pin Based Incandescent, Photoflood, etc. Within each table, lamps are listed alphabetically by GE Lamp Code.

GE Multi-Mirror® Quartzline® Projection Lamps

Invented By GE For Optimized Projection System Performance, the Multi-Mirror® and its new companion, the Mini Multi-Mirror®, are reflector halogen Quartzline® lamps with innovative GE features that result in better system efficiency, screen uniformity, lamp-to-lamp consistency and relamping convenience.

Feature	Benefit	Applications
• Dichroic reflector	• Cool light beam • Efficient light reflection	• Slide Projection • Front/Rear Screen Projection
• Precise rim reference	• Quick lamp installation	• Microfilm
• Accurate snap-in alignment		• Overhead Projection
• Faceted reflector	• Efficient beam for brighter image • Uniform screen image • Precision beam control	• 16mm Movie • 8mm Movie • Film Strip
• Halogen Quartzline® lamp	• Whiter and brighter light • No bulb blackening/blistering • Constant light output through life • Stable color temperature	• Enlargers/Printers • Fiber Optics • Medical/Scientific Instruments • Video Camera Lights • Airport Runways • Display

Each GE Multi-Mirror® lamp type is optically tailored to its application. First, the appropriate type of multi-faceted reflector is determined. Then a filament tube developed, using advanced Quartzline® technology. Finally, the two are combined, using sophisticated, computerized precision-assembly techniques. The result – consistently high performance...lamp after lamp after lamp.

ANSI Coded GE Projection Lamps Index

Order Code	Description	Watts	Volts	Bulb Shape	Base	Table No.	Page No.
BAB USE Q20MR16CG40BAB							
10933	BAB/PH	20	12	MR16	GX5.3 2-Pin	3	9
40886	BAH	300	115	A21	Medium	18	11
40563	BBA	250	118	A21	Medium	18	11
40564	BCA	250	118	A21	Medium	18	11
36178	BCK	500	120	T6	G17q 4-Pin	6	10
40658	BHB	250	120	MR14	G7.9 2-Pin	5	10
BHC USE DYS/DYV/BHC							
29140	BLC	30	118	S11	D. C. Bay.	15	11
30232	BLK	30	125	S11	Cand.	18	11
29156	BLX	50	118	S11	D. C. Bay.	15	11
32137	BNF	75	120	S11	D. C. Bay.	15	11
29604	BRH	1000	120	T5	R7s	9	10
18234	BRL	50	12	T3.5	G6.35 2-Pin	7	10
30421	BXB	34	8.5	T8	S. C. Pref.	16	11
29525	CAL	300	120	T10	G17q 4-Pin	11	10
29380	CAR	150	120	T10	G17q 4-Pin	11	10
29171	CAX	50	118	T8	D. C. Bay.	15	11
29169	CAX	50	130	T8	D. C. Bay.	15	11
CBS USE CBX/CBS							
29208	CBX/CBS	75	118	T8	D. C. Bay.	15	11
29257	CDD	100	120	T8	S. C. Bay.	14	11
29266	CDJ	100	118	T8	D. C. Bay.	15	11
29244	CEB	100	118	T8	D. C. Bay.	15	11
43330	CEM	120	120	T8	S. C. Bay.	14	11
29664	CZA/CZB	500	120	T10	G17q 4-Pin	11	11
CZB USE CZA/CZB							
29677	CZX/DAB	500	120	T10	Med. Pref.	13	11
DAB USE CZX/DAB **DAK USE DAT/DAK**							
40214	DAT/DAK	400	120	T10	G17q 4-Pin	10	10
29695	DAY/DAK	500	120	T10	G17q 4-Pin	10	10
29360	DCA	150	21	T12	GX17q 4-Pin	12	11
29364	DCH/DJA/DFP	150	120	T12	G17q 4-Pin	12	11
43537	DDL	150	20	MR16	GX5.3 2-Pin	3	9
43206	DDM	80	19	MR16	GX5.3 2-Pin	3	9
43988	DDS	80	21	MR16	GX5.3 2-Pin	3	9
43950	DED	85	13.8	MR16	GX5.3 2-Pin	3	9
29737	DEK/DFW/DHN	500	120	T12	G17q 4-Pin	11	10
DFC USE DFN/DFC							
36122	DFE	80	30	T12	GX17q 4-Pin	12	11
29386	DFN/DFC	150	125	T12	G17q 4-Pin	12	11
DFP USE DHC/DJA/DFP **DFW USE DEK/DFW/DHN** **DFZ USE DLD/DFZ** **DHN USE DEK/DFW/DHN** **DHX USE DLS/DLG/DHX** **DJA USE DHC/DJA/DFP**							
29338	DJL	150	120	T14	G17q 4-Pin	12	11
44854	DJT	50	13.8	MR16	GX5.3 2-Pin	3	9
40216	DLD/DFZ	80	30	T14	GX17q 4-Pin	12	11
DLG USE DLS/DLG/DHX							
29366	DLS/DLG/DHX	150	22	T14	GX17q 4-Pin	12	11
40161	DNE	150	120	MR16	G7.9 2-Pin	5	10
39742	DNF	150	21	MR16	GX7.9 2-Pin	5	10
29959	DPT	1000	120	T20	Mogul	17	11
29968	DRB	1000	118	T20	Med. Pref.	13	11
29947	DRS	1000	120	T20	Med. Pref.	13	11
30304	DVY	650	120	G6	G5.3 2-Pin	7	10
30151	DXB	500	120	R40	Medium	19	11
30145	DXC	500	120	R40	Medium	19	11
36952	DXX	800	230	T4	R7s	9	10
36953	DXX	800	240	T4	R7s	9	10
30364	DYH	600	120	G7	G5.3 2-Pin	7	10
32071	DYP	600	120	G7	2-Button	7	10
33248	DYR	650	220	G7	GZ9.5 2-Pin Pf	7	10
33250	DYR	650	240	G7	GZ9.5 2-Pin Pf	7	10
32955	DYS/DYV/BHC	600	120	G7	GZ9.5 2-Pin Pf	7	10
DYV USE DYS/DYV/BHC							
19479	DYS-5	600	120	G7	GZ9.5 2-Pin Pf	7	10
37346	DZA	30	10.8	T3.5	G5.3 2-Pin	7	10
37695	DZE/FDS	150	24	T4	GZ9.5 2-Pin Pf	7	10
30202	EAJ	35/25	12	T6.4	D.C. Bay.	15	11
30281	EAL	500	120	R40	Medium	19	11
40566	EBV	500	118	PS25	Medium	18	11
40567	EBW PH/B2	500	118	PS25	Medium	18	11
40565	ECA	250	120	A23	Medium	18	11
40568	ECT	500	120	PS25	Medium	18	11
21276	EFM	50	8	MR16	GZ6.35 2-Pin	3	9
21277	EFN	75	12	MR16	GZ6.35 2-Pin	3	9
21278	EFP	100	12	MR16	GZ6.35 2-Pin	3	9
21279	EFR	150	15	MR16	GZ6.35 2-Pin	3	9
37527	EHA	500	120	T6	GZ9.5 2-Pin Pf	7	10
14874	EHJ	250	24	T4	G6.35 2-Pin	7	10
32882	EJA	150	21	MR16	GX5.3 2-Pin	4	9
29150	EJL	200	24	MR16	GX5.3 2-Pin	3	9
29151	EJM	150	21	MR16	GX5.3 2-Pin	3	9
EJN USE ELD/EJN							
32831	EJV	150	21	MR16	GX5.3 2-Pin	4	9
32886	EJY	80	19	MR16	GX5.3 2-Pin	4	9
35200	EKE	150	21	MR16	GX5.3 2-Pin	3	9
35800	EKP/ENA	80	30	MR16	GX5.3 2-Pin	3	9
EKS USE EMM/EKS							
36899	EKX	200	24	MR16	GX5.3 2-Pin	3	9
36902	EKZ	30	10.8	MR16	GX5.3 2-Pin	3	9
37462	ELC	250	24	MR16	GX5.3 2-Pin	3	9
15377	ELC/500	250	24	MR16	GX5.3 2-Pin	3	9
22023	ELC/C	250	24	MR16	GX5.3 2-Pin	3	9
38306	ELD/EJN	150	21	MR16	GX5.3 2-Pin	3	9
38476	ELH	300	120	MR16	GY5.3 2-Pin	3	9
ELR USE ELS/ELR							
41885	ELS/ELR	50	18	MR14	GX7.9 2-Pin	5	10
42612	EML	175	24	T4	G5.3 2-Pin	7	10
40017	EMM/EKS	250	24	MR14	GX7.9 2-Pin	5	10
ENA USE EKP/ENA **ENC USE ENW/ENC**							
38686	ENH	250	120	MR16	GY5.3 2-Pin	3	9
25475	ENL	50	12	MR16	GX5.3 2-Pin	3	9
40248	ENW/ENC	80	19	MR16	GX5.3 2-Pin	3	9
41705	ENX	360	82	MR16	GY5.3 2-Pin	3	9
19475	ENX-5	360	86	MR16	GY5.3 2-Pin	3	9
40598	ENZ	50	30	MR16	GX5.3 2-Pin	4	9
41430	EPN	35	12	MR16	GX5.3 2-Pin	3	9
41729	EPT	42	10.8	MR16	GX5.3 2-Pin	3	9
41882	EPV	90	14.5	MR16	GX5.3 2-Pin	3	9
42614	EPX	90	14.5	MR16	GX5.3 2-Pin	3	9
41874	ERV	340	36	MR16	GX5.3 2-Pin	3	9
43756	ESD	150	120	MR16	GY5.3 2-Pin	3	9
11698	ESJ	85	82	MR16	GY5.3 2-Pin	3	9
11322	ETJ	250	120	MR16	GY5.3 2-Pin	3	9
38311	ETT	1000	120	T5	R7s	9	10
41164	EVD	400	36	T6	GY6.35 2-Pin	7	10
10099	EVV	120	6.6A	T4	GZ9.5 2-Pin	8	10
11110	EVW	250	82	MR16	GY5.3 2-Pin	3	9
11427	EWR	150	6.6A	T4	GZ9.5 2-Pin	8	10
11478	EXL	30	6.6A	T3.5	GZ9.5 2-Pin	8	10
11482	EXM	45	6.6A	T3.5	GZ9.5 2-Pin	8	10
12092	EXR	300	82	MR13	GX5.3 2-Pin	2	9
12003	EXV	100	12	MR16	GX5.3 2-Pin	3	9

For the most up-to-date product information, see www.gelighting.com.

ANSI Coded GE Projection Lamps Index (continued)

Order Code	Description	Watts	Volts	Bulb Shape	Base	Table No.	Page No.
ENA USE EKP/ENA **ENC USE ENW/ENC (continued)**							
12095	EXW	300	82	MR13	GX5.3 2-Pin	2	9
11750	EXX	250	120	MR16	GY5.3 2-Pin	3	9
12097	EXY	250	82	MR13	GX5.3 2-Pin	2	9
12696	EYB	360	82	T3.5	G5.3 2-Pin	7	10
19322	EYB-5	360	86	T3.5	G5.3 2-Pin	7	10
13617	EYH/FKT	250	120	G6	G5.3 2-Pin	7	10
41783	EZA/4	32	6.6A	MR16	Wire Term.	3	9
23071	EZC	45	6.6A	MR16	GX5.3 2-Pin	3	9
15832	EZF/EZJ	225	68	MR13	GX5.3 2-Pin	2	9
EZJ USE EZF/EZJ							
15477	EZK	150	120	MR16	GY5.3 2-Pin	3	9
15243	EZL	200	6.6A	T4	GZ9.5 2-Pin	8	10
29581	FAL	420	120	T4	R7s	9	10
FBD USE FBG/FBD							
33663	FBG/FBD	500	120	G6	G5.3 2-Pin	7	10
29598	FCB	600	120	T4	R7s	9	10
14876	FCR	100	12	T3	GY6.35 2-Pin	7	10
13598	FCS	150	24	T4	G6.35 2-Pin	7	10
FDS USE DZE/FDS							
35321	FDT	100	12	T3	GZ9.5 2-Pin Pf	7	10
36878	FDV	150	24	T4	G6.35 2-Pin	7	10
29592	FFJ	600	120	T4	R7s	9	10
30276	FFM	420	120	T4	R7s	9	10
47614	FHS	300	82	MR13	GX5.3 2-Pin	2	9
47914	FHX	25	13.8	MR16	GX5.3 2-Pin	3	9
FKT USE EYH/FKT							
30894	FLS	28	12	MR11	GZ4 2-Pin	1	9
25261	FLT	28	13.8	MR11	GZ4 2-Pin	1	9
19886	FLW	300	24	T4	GY6.35 Ceramic	7	10
14887	FML	50	13.8	MR16	GX5.3 2-Pin	3	9
18241	FNT/100	275	24	T4	G6.35 2-Pin	7	10
21613	FXL	410	82	MR16	GY5.3 2-Pin	3	9
80853	GCA	250	120	T3.5	G5.3	7	10
11134	GEMINI 300(EZG)	300	35	PAR20	Special 2-Pin Plug	21	11
39936	MARC 350-16T EZT	350	45	PAR24	Special 2-Pin Plug	21	11
30162	PH/111A	75	125	S11	S.C. Bay.	20	11
43220	PH/140	75	120	S14	Medium	20	11
40569	PH/211	75	120	A21	Medium	20	11
40570	PH/212	150	120	A21	Medium	20	11
40571	PH/213	250	120	A21	Medium	20	11

For the most up-to-date product information, see www.gelighting.com.

Headings in this catalog section

The following terms and descriptions can help you when checking Projection lamp specifications and when ordering products. Within each product line, lamps are divided into families. Within families, lamps are listed by ANSI code.

Maximum Overall Length (MOL):
This dimension includes the lamp bulb and all rigid parts of the base. Since the listed lengths include maximum tolerances, actual lamps are generally slightly shorter.

ANSI Codes:
These are 3-letter codes assigned by the American National Standards Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers. General Electric uses the assigned ANSI Codes as Lamp Ordering Codes for most Projection Lamps.

Multiple-ANSI-Coded Projection Lamps:
Some GE Projection Lamps have an ordering code comprising two or more 3-letter ANSI codes – such as EMJ/EKS and DYS/DVV/BHC. The first code is the ANSI code, the secondary codes identify the multiple-coded lamp can directly replace. Only the first code appears on the lamp itself. Multiple-coded lamps are so-designated by General Electric for the convenience of the customer.

Bulb Shape:
Projection Lamp bulb designations use a combination of letters and numerals to indicate bulb shape and maximum diameter in eighths of an inch. For example: a "T12" bulb is Tubular-shaped and twelve-eighths of an inch, or 1-1/2" in diameter. Illustrations of typical Projector Lamps and their respective bulb designations are shown in the tables of lamp families, pages 10-2 – 10-3.

Base:
Projection Lamp base illustrations appear on page 10-4, along with their common trade names and abbreviations, plus their letter-number ANSI/IEC designations where applicable.

Watts (or Amps):
This column shows the rated power consumption (watts) of the lamp at its design voltage. A few lamps, in Table 8, are rated in terms of current (amperes) drawn initially at their rated voltage. The watts shown for the lamps in Table 8 are the approximate initial values for operation at rated amperes.

Order Code:
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Description:
This is a 3-letter or letter-number code uniquely identifying the lamp for ordering purposes. In some instances, lamps with 3-letter (ANSI) codes are offered in more than one design voltage, in which case the voltage required should also be specified when ordering.

Volts:
The voltage shown is the design voltage of the lamp, on which the life and wattage ratings are based. Lamps are available only in the design voltage(s) shown. When ordering lamps listed for more than one voltage, be sure to specify the voltage required (supply voltage variation can significantly affect lamp life).

Case Quantity:
Number of product units packed in a case.

Filament Design:
Typical filament configurations for Projection Lamps are shown on page 10-4, along with an explanation of the filament designation system.

Light Center Length (LCL):
This dimension defines the location of the filament in relation to the base. It is measured from the geometric center of the filament to a specified point on, or plane through, the base. Light Center Length is subject to manufacturing tolerances. Reference points/planes from which LCL is measured are tabulated on page 10-4 for the various styles of lamp bases.

Rated Life:
Life ratings of Projection Lamps are based on closely controlled laboratory tests of lamps, at their rated voltage, over a long period of production time. Rated Life is not necessarily the same as service life; mechanical shock and vibration, voltage fluctuation, temperature and other environmental factors may result in shorter service life. As with any median value, some individual lamps will operate longer and some will operate shorter, than their Rated Life (supply voltage variation can significantly affect lamp life).

Initial Lumens:
The value shown is based on spherical photometry, at rated voltage, of lamps that have been seasoned for approximately 15% (or minimum of 2 hours) or more of their rated average life.

Source Size:
This is defined as the dimensions of the rectangular area, centered on the lamp axis, within which all luminous parts of the filament lie, when viewed perpendicular to the axis of the filament coil or to the plane of C-13 and C-13D filaments.

Typical Working Distance:
For Multi-Mirror® and other reflector Quartzline® lamps and MARC™ lamps, the Working Distance shown is the distance from the front surface of the reflector rim to the film plane, in the optical system for which the lamp was first designed. In most cases, it provides a uniform plane of light for the intended aperture.

Color Temperature:
The radiation within the visible spectrum from tungsten filament lamps is similar in spectral distribution to that from a "blackbody" at specific color temperatures. The Color Temperatures shown are approximate initial values in degrees Kelvin (K) for lamps operated at rated voltage.

CBCP (Center Beam Candlepower):
For reflector type lamps. Center Beam Candlepower is the intensity (candelas) at the center or maximum intensity of the beam.

Operating Position:
For good performance, lamps must be used within specified limitations on operating position. The following abbreviations are used in the lamp tables to indicate these limits:
BD = Base Down. Operate only vertical, base down.
HD = Base Down to Horizontal. Do not operate base above horizontal.
H22 = Operate base down to 22° base up.
U = Operate in any position.

Warning and Caution/Footnote:
See page 10-12 for explanation.

Additional Information:
Typical application and/or other important information.

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Initial Lumens	Color Temp K	CBCP	Burn Position	Additional Information	Warning and Caution/ Footnote	Typical Working Distance	Source Size (W x H)
Quartzline® Multi-Mirror® Reflectors																		
MR-11 Faceted Dichroic Reflector. 1-3/8" Diameter (35mm). Table 1.																		
MR11	GZ4 2-Pin	28	30894	FLS	12	10	CC-6	1.38		1000		3000		HD	Microfilm	A		

FLS
ANSI Code.

For the most up-to-date product information, see www.gelighting.com.

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Burn Position	Additional Information	Warning and Caution/ Footnote	Typical Working Distance	Source Size (W x H)
Quartzline® Multi-Mirror® Reflectors																		
MR-11 Faceted Dichroic Reflector, 1-3/8" Diameter (35mm), Table 1																		
MR11	GZ4 2-Pin	28	30894	FLS	12	10	CC-6	1.38		1000		3000		HD	Microfilm	A		
			25261	FLT	13.8	10	CC-6	1.38		500		3050		HD	Microfilm	A		
MR-13 Faceted Dichroic Reflector, 1-2/3" Diameter (42mm), Table 2																		
MR13	GX5.3 2-Pin	300	12092	EXR	82	20	CC-8	1.75		35		3350		HD	Slide Projection	A	6.00	
			12095	EXW	82	20	CC-8	1.75		15		3450		HD	Slide Projection	A	6.00	
		250	12097	EXY	82	20	CC-8	1.75		200		3200		HD	Slide Projection	A	6.00	
		225	15832	EZF/EZJ	68	20	CC-8	1.75		350				HD	Color Printer	A, R		
		300	47614	FHS	82	20	CC-8	1.75		70		3300		HD	Slide Projection	A	6.00	
MR-16 Faceted Dichroic Reflector, 2" Diameter (51mm), Table 3																		
MR16	GX5.3 2-Pin	20	10933	BAB/PH	12	20	C-6	1.88		2000		2900		HD	Flood	A	5.00	
		150	43537	DDL	20	20	C-6	1.75		500		3150		HD	Microfilm	A	7.75	
		80	43206	DDM	19	20	CC-6	1.75		50		3350		HD	Slide Projection	A	6.00	
		80	43988	DDS	21	20	CC-6	1.75		1000		3125		HD	Microfilm	A	6.50	
		85	43950	DED	13.8	20	C-6	1.75		1000		3150		HD	Microfilm	A	6.50	
		50	44854	DJT	13.8	20	CC-6	1.75		1000		3150		HD	Microfilm	A	6.00	
	GZ6.35 2-Pin	50	21276	EFM	8	20	C-6	1.75		50		3300		HD	8mm Projection	A	1.25	
		75	21277	EFN	12	20	CC-6	1.75		50		3350		HD	8mm Projection	A	1.25	
		100	21278	EFP	12	20	CC-6	1.75		50		3350		HD	8mm Projection	A	1.25	
		150	21279	EFR	15	20	CC-6	1.75		50		3350		HD	8mm Projection	A	1.25	
	GX5.3 2-Pin	200	29150	EJL	24	20	CC-6	1.75		50		3400		HD	16mm, Color Printer	A	1.25	
		150	29151	EJM	21	20	CC-6	1.75		40		3350		HD	8mm Projection	A	1.50	
		150	35200	EKE	21	20	CC-6	1.75		250		3250		HD	8mm Projection, Fiber Optics	A	1.75	
		80	35800	EKP/ENA	30	20	CC-6	1.75		25		3350		HD	8mm Projection	A	1.75	
		200	36899	EKX	24	20	CC-6	1.75		25		3400		HD	Microfilm	A	5.50	
		30	36902	EKZ	10.8	20	C-6	1.75		200		3100		HD	16mm Projection	A	1.50	
		250	37462	ELC	24	20	CC-6	1.75		50		3400		HD	Fiber Optics, Color Printer	A	1.25	
		250	22023	ELC/C	24	20	CC-6	1.75		50		3400		HD	Fiber Optics, Color Printer	A	1.25	
		250	15377	ELC/500	24	20	CC-6	1.75		500		3350		HD	Fiber Optics, Disco	A	1.25	
		150	38306	ELD/EJN	21	20	CC-6	1.75		40		3350		HD	Microfilm	A	6.50	
	GY5.3 2-Pin	300	38476	ELH	120	20	CC-8	1.75		35		3350		HD	Slide Projection	A	6.00	
		250	38686	ENH	120	20	CC-8	1.75		175		3250	11700	HD	Slide Projection	A	6.00	
	GX5.3 2-Pin	50	25475	ENL	12	20	C-6	1.75		4000		3050		HD	Fiber Optics, Display Lighting	A	1.50	
		80	40248	ENW/ENC	19	20	CC-6	1.75		200		3200		HD	8mm Projection	A	1.75	
	GY5.3 2-Pin	360	41705	ENX	82	20	CC-8	1.75		75		3300		HD	Overhead Projection	A	11.75	
			19475	ENX-5	86	20	CC-8	1.75		75		3300		HD	Overhead Projection	A		
	GX5.3 2-Pin	35	41430	EPN	12	20	C-6	1.75		50		3300		HD	8mm Projection	A	1.13	
		42	41729	EPT	10.8	20	C-6	1.75			10000		2900	HD	Fiber Optics	A	1.50	
		90	41882	EPV	14.5	20	CC-6	1.75			500		3150	HD	Microfilm	A	6.13	
			42614	EPX	14.5	20	CC-6	1.75			500		3150	HD	Microfilm	A	6.50	
MR16	GX5.3 2 Pin	340	41874	ERV	36	20	CC-8	1.75			75		3300	HD	Overhead Projection	A	11.75	
	GY5.3 2-Pin	150	43756	ESD	120	20	CC-8	1.75			12		3350	HD	Enlarger, Projection	A	1.75	
		85	11698	ESJ	82	20	CC-8	1.75			40		3350	HD	Enlarger, Projection	A	1.75	
		250	11322	ETJ	120	20	CC-8	1.75			175		3300	HD	Fiber Optics	A	1.50	
		250	11110	EVW	82	20	CC-8	1.75		50		3300	H22		Overhead Projection	A	11.75	
	GX5.3 2-Pin	100	12003	EXV	12	20	CC-6	1.75		50	3100	3350	3100	U	Camera Light	A		
		250	11750	EXX	120	20	CC-8	1.75		25	6750	3300	6750	U	Camera Light	A		
	Wire Term.	32	41783	EZA/4	6.6A	20	C-8	1.75		1000		2900	4500	HD	Airport	A		
	GX5.3 2-Pin	45	23071	EZC	6.6A	20	C-8	1.75		1000		2950		HD	Airport	A		
	GY5.3 2-Pin	150	15477	EZK	120	20	CC-8	1.75		200		3200	3600	U	Camera Light	A		
	GX5.3 2-Pin	25	47914	FHX	13.8	20	CC-6	1.75		250		3200		HD	Microfilm	A	4.13	
		50	14887	FML	13.8	20	CC-6	1.75		1000		3150		HD	Microfilm	A	8.44	
	GY5.3 2-Pin	410	21613	FXL	82	20	CC-8	1.75		38		3300		HD	Overhead Projection	A	11.75	
	2-Pin w/Leads	150	25137	Q150MR 16-15/ LEADS	15	20	C-8	1.88		150		3400		HD		A	1.75	
Quartzline® Reflector Lamps																		
MR-16 Smooth Dichroic Reflector, 2" Diameter (51mm), Table 4																		
MR16	GX5.3 2-Pin	150	32882	EJA	21	20	CC-6	1.75		40		3350		HD	Fiber Optics	A	1.10	
		150	32831	EJV	21	20	CC-6	1.75		40		3350		HD	8mm Projection Printer	A	1.75	
		80	32886	EJY	19	20	CC-6	1.75		25		3400		HD	Fiber Optics	A	1.50	
		50	40598	ENZ	30	20	CC-6	1.75		25		3450		HD	8mm Projection	A	1.25	

Projection Lamps

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Burn Position	Additional Information	Warning and Caution/ Footnote	Typical Working Distance	Source Size (W x H)
Quartzline® Reflector Lamps (continued)																		
MR-14 (1-3/4" Diameter – 44mm) or MR-16 Dichroic Reflector (2" Diameter – 51mm) 2-Pin Vented Base, Table 5																		
MR14	G7.9 2-Pin	250	40658	BHB	120	24	CC-8	1.67		25		3350		HD	16mm Projection	A	2.63	
MR16	G7.9 2-Pin	150	40161	DNE	120	24	CC-8	1.77		12		3350		HD	8mm Projection	A	2.75	
	GX7.9 2-Pin	150	39742	DNF	21	24	CC-8	1.77		25		3400		HD	8mm Projection	A	2.75	
MR14	GX7.9 2-Pin	50	41885	ELS/ELR	18	24	CC-8	1.41		650		3100		HD	Microfilm	A	4.75	
		250	40017	EMM/EKS	24	24	CC-8	1.66		50		3400		HD	16mm Projection	A	2.63	
Quartzline® Single-Ended																		
4-Pin Slide Projection, Table 6																		
T6	G17q 4-Pin	500	36178	BCK	120	24	C-13D	3.25	1.56	50		3200		HD	Slide Projection	A, D		
Applications: Projection, Microfilm, Studio, Etc, Table 7																		
T3.5	G6.35 2-Pin	50	18234	BRL	12	100	C-6	1.72	1.17	50	1400	3400		U		A		
G6	G5.3 2-Pin	650	30304	DVY	120	24	CC-6	2.48	1.44	25	20000	3300		HD		A, E		.50 x .20
G7	G5.3 2-Pin	600	30364	DYH	120	24	CC-6	2.50	1.44	75	17000	3200		U		A		.50 x .25
	2-Button	600	32071	DYP	120	24	CC-6	2.25	1.00	75	17000	3200		HD		A		.50 x .25
	GZ9.5 2-Pin Pf	650	33248	DYR	220	24	2CC-8	2.50	1.44	50	16500	3200		U		A		.45 x .45
			33250	DYR	240	24	2CC-8	2.50	1.44	50	16500	3200		U		A		.45 x .45
		600	19479	DYS-5	120	24	CC-6	2.50	1.44	150	15500	3200		HD		A		.45 x .45
			32955	DYS/DYV/ BHC	120	24	CC-6	2.50	1.44	75	17000	3200		HD		A		.50 x .25
T3.5	G5.3 2-Pin	30	37346	DZA	10.8	24	C-6	2.00	1.06	400	530	3100		HD		A		.15 x .05
T4	GZ9.5 2-Pin Pf	150	37695	DZE/FDS	24	24	C-6 Oval	2.68	1.31	100	4000	3250		HD		A		.25 x .15
T6	GZ9.5 2-Pin Pf	500	37527	EHA	120	24	C-13D	3.00	1.44	50		3300		HD		A, D		.35 x .35
T4	G6.35 2-Pin	250	14874	EHJ	24	100	C-6 Oval	2.25	1.31	50	8000	3400		HD		A		.30 x .15
	G5.3 2-Pin	175	42612	EML	24	24	C-6	2.12	1.06	125	5000	3200		HD		A		.21 x .19
T6	GY6.35 2-Pin	400	41164	EVD	36	24	C-6	2.34	1.40	50	14500	3200		HD	Overhead Projection	A		
T3.5	G5.3 2-Pin	360	12696	EYB	82	24	CC-8	2.25	1.25	75	10000	3300		HD		A		
			19322	EYB-5	86	24	CC-8	2.25	1.25	75		3200		HD		A		
G6	G5.3 2-Pin	250	13617	EYH/FKT	120	24	CC-6	2.50	1.44	200	6000	3000		HD		A		
		500	33663	FBG/FBD	120	24	CC-6	3.00	1.75	50	13200	3200		U		A		
T3	GY6.35 2-Pin	100	14876	FCR	12	100	C-6 Oval	1.75	1.18	50	2800	3300		HD		A		
T4	G6.35 2-Pin	150	13598	FCS	24	100	C-6 Oval	2.00	1.18	50	4500	3300		HD		A		
T3	GZ9.5 2-Pin Pf	100	35321	FDT	12	24	C-6 Oval	2.12	1.06	50	2900	3300		HD		A		
T4	G6.35 2-Pin	150	36878	FDV	24	24	C-6 Oval	2.00	1.19	100	4300	3050		U		A		
	GY6.35	300	19886	FLW	24	48	C-6 Oval	2.15	1.21	50	10200	3500		HD		A		
	G6.35 2-Pin	275	18241	FNT/100	24	100	C-6 Oval	2.25	1.31	50	10000	3400		HD		A		
T3.5	G5.3	250	80853	GCA	120	12	CC-8	2.24	1.26	200	5700	3200		U		A		
Quartzline® Single-Ended – Amp Rated, Table 8																		
T4	GZ9.5 2-Pin	120	10099	EVV	6.6A	24	C-6 Oval	2.50	1.54	500	3150	3200		BD	Airport	A		
		150	11427	EWR	6.6A	24	C-6 Oval	2.50	1.54	500	4100	3200		BD	Airport	A		
T3.5	GZ9.5 2-Pin	30	11478	EXL	6.6A	24	C-8	1.75	1.00	1000	375	2900		HD	Airport	A		
		45	11482	EXM	6.6A	24	C-8	1.75	1.00	1000	750	2950		HD	Airport	A		
T4	GZ9.5 2-Pin	200	15243	EZL	6.6A	24	C-6 Oval	2.50	1.54	500	5000	3100		BD	Airport	A		
Quartzline® Double-Ended Projection, Table 9																		
T5	R7s	1000	29604	BRH	120	24	CC-8	3.75		60	30000	3350		U	Overhead Projection	A		
T4	R7s	800	36952	DXX	230	24	CC-8	3.13		75	21400	3200		U	Copyboard, Studio	A		
			36953	DXX	240	24	CC-8	3.13		75	21400	3200		U	Copyboard, Studio	A		
T5	R7s	1000	38311	ETT	120	24	CC-8	3.75		70		3350		U	Spec. (PH1000H)	A		
T4	R7s	420	29581	FAL	120	24	CC-8	2.63		90	11000	3200		U	Printer	A		
		600	29598	FCB	120	24	CC-8	3.75		120	17000	3250		U	Overhead Projection	A		
			29592	FFJ	120	24	CC-8	2.63		85	17000	3250		U	Printer	A		
		420	30276	FFM	120	24	CC-8	3.13	0.50	90	11000	3200		U	Copyboard	A		
Incandescent Projection																		
4-Pin Base, Table 10																		
T10	G17q 4-Pin	400	40214	DAT/DAK	120	24	C-13D	4.00	1.56	25	9800	3200		BD	Slide Projection	A		
		500	29695	DAY/DAK	120	24	C-13D	4.00	1.56	30	12500	3200		BD	Slide Projection	A, J		
4-Pin Base – Proximity Reflector, Table 11																		
T10	G17q 4-Pin	300	29525	CAL	120	24	C-13	4.00	1.56	25		3200		BD	Slide, Film Strip	A, I		
		150	29380	CAR	120	24	2CC-8	3.13	1.31	15		3100		BD	Slide, Film Strip	A, J		
		500	29664	CZA/CZB	120	24	C-13D	4.00	1.56	25		3300		BD	Slide Projection, Gold Top (opaque)	A, I		
T12	G17q 4-Pin	500	29737	DEK/DFW/	120	24	C-13D	3.62	1.75	25		3250		HD	Slide Projection	A, H, I		

Bulb Shape	Base	Watts	Order Code	Description	Volts	Case Qty	Filament Design	MOL (in)	LCL (in)	Rated Life (hrs)	Lumens Initial	Color Temp K	CBCP	Burn Position	Additional Information	Warning and Caution/ Footnote	Typical Working Distance	Source Size (W x H)
Incandescent Projection (continued)																		
4-Pin Base – Focusing Reflector, Table 12																		
T12	GX17q 4-Pin	150	29360	DCA	21	24	CC-6	3.56	1.56	15		3250		HD	8mm Projection	A, I	1.75	
	G17q 4-Pin	150	29364	DCH/DJA/	120	24	CC-6	3.38	1.56	15		3150		BD	8mm Projection	A	2.25	
	GX17q 4-Pin	80	36122	DFE	30	24	CC-8	3.19	1.56	15		3400		HD	8mm Projection	A	2.25	
	G17q 4-Pin	150	29386	DFN/DFC	125	24	CC-8	3.19	1.56	15		3150		HD	8mm Projection	A	2.25	
T14	G17q 4-Pin	150	29338	DJL	120	24	CC-8	3.50	1.56	15		3150		HD	8mm Projection	A	1.75	
	GX17q 4-Pin	80	40216	DLD/DFZ	30	24	CC-6	3.50	1.56	15		3400		HD	8mm Projection	A, K	1.75	
		150	29366	DLS/DLG/	22	24	CC-6	3.44	1.56	15		3250		HD	8mm Projection	A, K	1.75	
Medium Prefocus Base, ANSI Base Designation: P28/25, Table 13																		
T10	Med. Pref.	500	29677	CZX/DAB	120	24	C-13D	5.75	2.19	25	12500	3200		BD	8mm Projection	A, J		
T20	Med. Pref.	1000	29968	DRB	118	24	C-13	5.75	2.19	25	32000	3350		BD	Overhead Projection	A		
			29947	DRS	120	24	C-13D	5.75	2.19	25	28500	3325		BD	Overhead Projection	A		
Single Contact Bayonet Base, ANSI Base Designation: BA15S, Table 14																		
T8	S. C. Bay.	100	29257	CDD	120	24	CC-2V	3.13	1.38	50	2000	2975		BD	Slide Projection	A		
		120	43330	CEM	120	24	2CC-8	3.13	1.38	200	1950	3000		BD	Wheel Align Projection	A, J		
Double Contact Bayonet Base, ANSI Base Designation: BA15D, Table 15																		
S11	D. C. Bay.	30	29140	BLC	118	120	CC-2V	2.38	1.38	50	400	2775		U	Editor Projection			
		50	29156	BLX	118	120	CC-2V	2.38	1.38	50	780	2850		HD	Toy Projection			
		75	32137	BNF	120	120	CC-2V	2.38	1.38	25	1300	2900		HD	Toy Projection			
T8	D. C. Bay.	50	29171	CAX	118	24	CC-2V	3.13	1.38	50	775	2875		BD	Optical Projection			
		50	29169	CAX	130	24	CC-2V	3.13	1.38	50	775	2875		BD	Optical Projection			
		75	29208	CBX/CBS	118	24	CC-13	3.13	1.38	50	1200	2925		BD	Slide Projection	A, J		
		100	29266	CDJ	118	24	CC-2V	3.13	1.38	50	2000	2975		BD	Slide Projection	A		
			29244	CEB	118	24	CC-13	3.13	1.38	50	1850	2975		BD	Slide Projection	A		
T6.4	D.C. Bay.	35	30202	EAJ	12	24	C6	4.00	1.77	300	620			U	Flashtube Modeling	A, L		
Single Contact Prefocus Base, ANSI Base Designation: P30S, Table 16																		
T8	S. C. Pref.	34	30421	BXB	8.5	24	C-8	3.13	1.63	100	690			HD	Sound Reproduction, Filament Offset 3/16" from base axis			
Miscellaneous, Table 17																		
T20	Mogul	1000	29959	DPT	120	12	C-13	9.06	4.75	50	28000	3200		BD	Opaque Projection	A		
Photoflood																		
Standard, Table 18																		
A21	Medium	300	40886	BAH	115	24	C-9	4.94		20	9000	3200		U	Photocopy, Inside Frost	A		
		250	40563	BBA	118	24	C-9	4.94		3	8000	3400		U	No. 1 Photoflood, Frost	A		
			40564	BCA	118	24	C-9	4.94		3	5000	4800		U	No. B1 Blue, Inside Frost	A		
S11	Cand.	30	30232	BLK	125	120	CC-2V	2.25		50	400	2700		U	Photocopy, Inside Frost	A		
PS25	Medium	500	40566	EBV	118	24	C-9	6.94		6	17000	3400		U	No. 2, Inside Frost	A		
			40567	EBW PH/B2	118	24	C-9	6.94		6	10500	4800		U	No. B2, Blue, Inside Frost	A		
A23	Medium	250	40565	ECA	120	24	C-9	6.00		20	6500	3200		U	Inside Frost	A		
PS25	Medium	500	40568	ECT	120	24	C-9	6.94		60	13650	3200		U	Inside Frost	A		
Reflector, Table 19																		
R40	Medium	500	30151	DXB	120	24	CC-2V	6.63		6		3300	45000		Spot Beam, 15 Degrees	A, Q		
			30145	DXC	120	24	C-9	6.63		6		3300	5500		Flood Beam, 90 Degrees	A, Q		
			30281	EAL	120	24	CC-2V	6.63		15		3200	6800		Medium Beam, 60 Degrees	A, Q		
Enlarger and Printer, Table 20																		
S11	S.C. Bay.	75	30162	PH/111A	125	120		2.38		15	1120	2900		HD	Enlarger, White	A		
S14	Medium	75	43220	PH/140	120	120		3.38		35	1150	2900		U	Enlarger, White	A		
A21	Medium	75	40569	PH/211	120	24		4.94		65	1000	3000		U	Enlarger, White	A		
		150	40570	PH/212	120	24		4.94		100	2300	3050		U	Enlarger, White	A		
		250	40571	PH/213	120	24		4.94		3	7000	3400		U	Enlarger, White	A		
Gemini® and Marc™, Table 21																		
PAR20	Special 2-Pin Plug	300	11134	GEMINI	35	4				75		6000		H	Replaces MARC 300/16A	A, O	1.46	
PAR24	Special 2-Pin Plug	350	39936	MARC	45	4				50	50	5000		H		A, O	2.05	

For the most up-to-date product information, see www.gelighting.com. To convert inches to millimeters, multiply by 25.4.
All footnotes, warning and caution notices found at the end of this section (page 10-12).

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Footnotes

B Pulsed Xenon lamps emit high levels of ultraviolet (UV) radiation and must be completely enclosed in an inter-locked system with all walls made of UV-absorbing material. The lamp must be made inoperative before the system is opened. The operator or user should never be exposed to the high level of UV radiation emitted by PXA lamps.

C Opaque Ceramic top on bulb.

D Proximity Reflector.

E Ultraviolet-absorbing bulb.

G Heat-resistant glass bulb.

H Collector grid.

I Gold Top (opaque).

J Black Top (opaque).

K Dichroic reflector.

L Two-filament lamp.

M Filament offset 3-3/16" from base axis.

O Should not be operated for periods of less than three minutes.

Q Approximate beam spread to 1/2 center-beam intensity.

R Red-enhanced dichroic filter.

Warning and Caution Notices

A

⚠ **Warning**

Risk of electrical shock

- Turn power off before inspection, installation or removal

Risk of fire

- Keep combustible material away from lamp
- Use in enclosed fixtures rated for this product

Pressurized lamp – unexpected rupture may cause injury, fire, or property damage

- Do not exceed 110% of rated voltage
- Avoid direct water/liquid contact
- Use in enclosed fixtures rated for this product
- Do not use lamp if outer glass is scratched or broken

Caution

⚠ **Risk of burn**

- Allow lamp/fixture to cool before handling
- Turn off power before installing lamp

Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in enclosed container

S

⚠ **Warning**

Lamp emits UV radiation which may cause eye/skin irritation. RG-3

- Avoid exposure of eyes and skin to unshielded lamp

⚠ **Caution**

Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use excessive force when installing lamp

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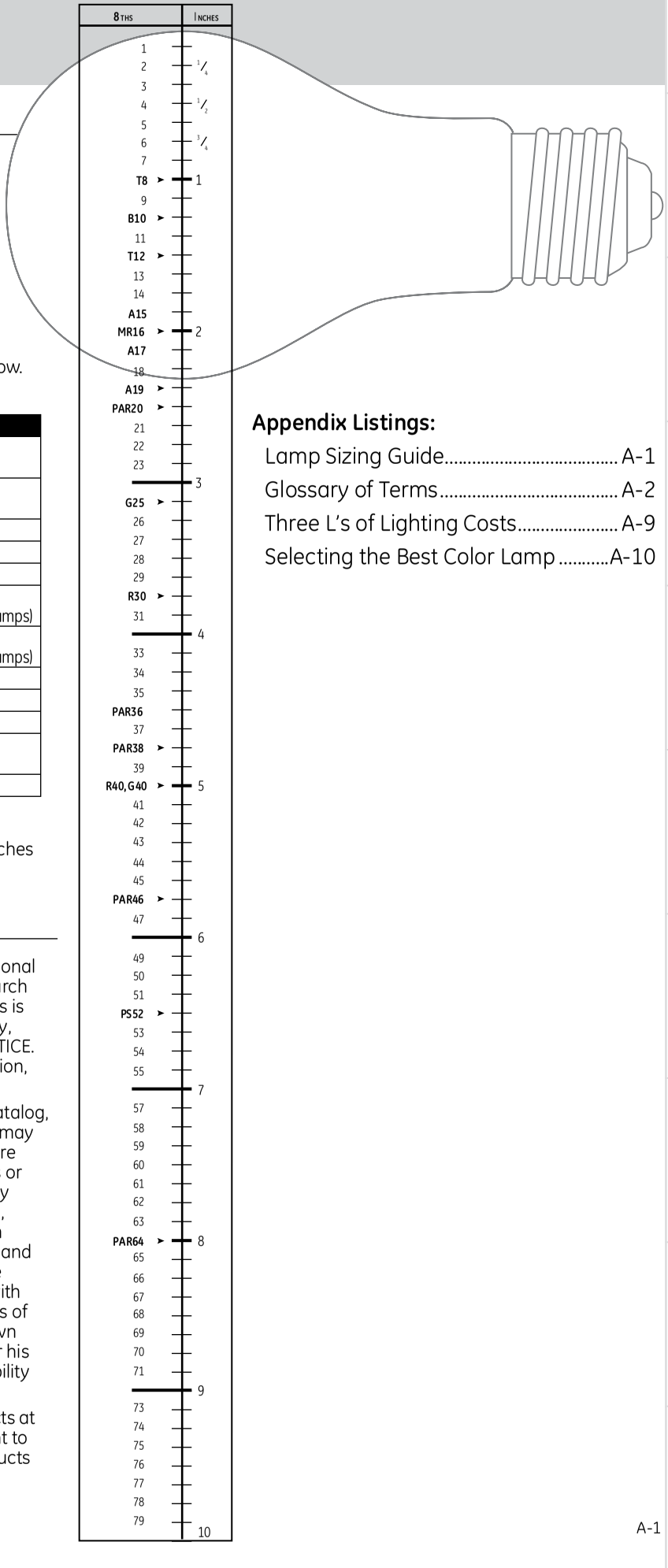
Appendix



Lamp Sizing Guide

Lamp Size/Diameter

The diameter of a lamp, at its maximum dimension, is expressed in eighths of an inch. Examples: The diameter of an A19 lamp is 19-eighths of an inch, or 2-3/8", at its widest point. A T8 lamp has a diameter of 8-eighths, or one inch.

Light Center Length (L.C.L.)

The distance between the center of the filament, or arc tube, and a reference plane — usually the bottom of the lamp base. See L.C.L. Reference Plane Location chart below.

L.C.L. Reference Plane Location

Base Type	Location
All Screw Bases (except Mini-Can.)	Bottom of base contact
Mini-Can	Where diameter of ceramic base insulator is .531 inches
3-Contact Medium	Bottom of base contact
Mogul Medium Prefocus	Top of base fins
Mogul Prefocus	Top of base fins
Medium BiPost	Base end of bulb (Glass lamps) Bottom of ceramic base (Quartz lamps)
Mogul BiPost	Shoulder of posts (Glass lamps) Bottom of ceramic base (Quartz lamps)
2-Pin Prefocus	Bottom of ceramic base.
S.C. or D.C. Bayonet Candelabra	Top of base pins
Medium Bayonet	Top of base pins
S.C. or D.C. Prefocus	Plane of locating bosses on prefocus collar
Medium 2-Pin	Bottom of metal base shell

Maximum Overall Length (M.O.L.)

The end-to-end measurement of a lamp, expressed in inches or millimeters.

Important Notice

This catalog is a compilation of accumulated data. Additional information is constantly being uncovered through research and testing, which may modify the data given herein. This is particularly true of newer lamps and ballasts. Accordingly, SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. For the latest lamp and ballast design data and information, contact your GE Representative.

The data and suggested applications contained in this catalog, as well as any additional information our representative may be able to furnish, are for general information only and are not intended and should not be taken as representations or warranties as to the suitability of a lamp or ballast for any particular application or use in any particular equipment, nor are our representatives authorized to make any such warranties. Applications and conditions of use are many and varied, and beyond our control. We cannot possibly have the same degree of knowledge that the purchaser has with respect to the design of his equipment and the conditions of its use. Therefore, it is up to the purchaser to make his own determination as to the suitability of a lamp or ballast for his intended application or use and to assume the responsibility for that determination.

General Electric desires to supply the best possible products at all times. For this reason, General Electric reserves the right to make changes in its products, and to introduce new products or discontinue existing ones without notice.

Appendix Listings:

Glossary of Terms

Ambient Temperature
Light output of fluorescent lamps depends on ambient temperature which refers to the temperature inside the fixture in the air surrounding the fluorescent lamp.

Amperes
("Amps") A measure of electrical current. In incandescent lamps, the current is related to voltage and power as follows: Watts (power) = Volts x Amps (current).

ANSI (American National Standards Institute)
A consensus-based organization which coordinates voluntary standards for the physical, electrical and performance characteristics of lamps, ballasts, luminaires and other lighting and electrical equipment.

ANSI Ballast Type
A reference to the ANSI document describing the lamp which also lists the characteristics of the ballast required to operate the lamp. The following naming system is used: H – mercury lamps; M – metal halide lamps; S – high pressure sodium lamps; L – low pressure sodium lamps.

ANSI Codes
These are 3-letter codes assigned by the American National Standards Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers. General Electric uses the assigned ANSI Codes as lamp ordering codes for most projection lamps.

Auto Reset Shutdown Circuit
Circuit senses lamp end life and will automatically shut off power to the lamp(s). When a new lamp is inserted in the socket, the ballast resets, and turns on the lamp automatically. Some shutdown circuits require the power to be cycled before a new lamp will re-light.

Ballast
An auxiliary piece of equipment required to start and to properly control the flow of current to gas discharge light sources such as fluorescent and high intensity discharge (HID) lamps. Typically, magnetic ballasts (also called electromagnetic ballasts) contain copper windings on an iron core while electronic ballasts are smaller and more efficient and contain electronic components.

Ballast Efficacy Factor (BEF)
Defined as ballast factor x 100 divided by input watts. The value is used to evaluate various lighting systems based on light output and power input. The BEF can only be used to compare systems operating the same type and quantity of lamps.

Ballast Factor (BF)
This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast. Note that the "rated output" is sometimes measured on a reference ballast unlike ones that actually operate the lamp in the field. For example, a ballast with a ballast factor of 0.93 will result in the lamp's emitting 93% of its rated lumen output. A ballast with a lower BF results in less light output and also generally consumes less power.

Ballast Hum
Sound generated by the vibration of laminations in the iron core of the transformer or inductor present in the ballast.

Ballast Losses
Power or energy dissipated in the ballast as heat and not converted to lamp energy.

Base Temperature (Maximum)
The maximum operating temperature permitted for the base in Celsius. Fixture manufacturers need to ensure that these conditions are satisfied in their fixture.

Beam Angle
The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 50% of maximum. The beam angle (sometimes called "beam spread") is often part of the ordering code for reflectorized lamps. Example: The 50PAR30/HIR/NFL25 is a 50 watt PAR30 narrow flood lamp with a beam angle of 25 degrees, i.e. 12.5 degrees on either side of the center (see FIELD ANGLE).

Bi-Pin
Any base with two metal pins for electrical contact. This is the typical base for a fluorescent tube of 1 to 4 feet in length. It consists of 2 prong contacts that connect into the fixture. Medium bi-pins are used with type T-8 and T-12 tubular fluorescent lamps, and miniature bi-pins are used for tubular T-5 fluorescent lamps.

Biax®
GE trademark for its biaxial family of high-efficiency and long-life compact fluorescent lamps. DBX (Double Biax), TBX (Triple Biax) and QBX (Quad Biax) refer to the number of U-shaped legs present in the lamp.

Bottom Exit (BE)
(CFL plug-in ballasts) A configuration with leads or a wire-trap on the bottom or base of the ballast. This type of configuration is usually used when the ballast is mounted onto a junction box plate.

Bottom Exit Studs (BES)
(LFL plug-in ballasts) A configuration with screw studs mounted on the base plate or bottom of the ballast. The screws are 3/8" inches long with a #8-32 thread size (#8-32 nut). They are mounted on a two-inch center. The studs are usually used to mount the ballast directly onto a junction box plate.

Bulb Size
Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch). For Compact Fluorescent products, "S", "D", "T", and "Q" are used to represent Single, Double, Triple and Quad Biax® sizes. The code also includes a reference such as T4 to represent the size of the tube. Rectangular headlamps are designated as "Rect" and the number of millimeters horizontally.

Canadian Energy Standards
Indicates ballast complies with Canadian Energy Standards and meets the requirements of CAN/CSA C654-M91.

Canadian Standards Association (CSA)
Association that generates product performance and safety standards for many Canadian industries.

Candela (cd)
The measure of luminous intensity of a source in a given direction. The term has been retained from the early days of lighting when a standard candle of a fixed size and composition was defined as producing one candela in every direction. A plot of intensity versus direction is called a candela distribution curve and is often provided for reflectorized lamps and for luminaires with a lamp operating in them.

Candlepower
An obsolete term for luminous intensity; current practice is to refer to this simply as candelas (see CANDELA).

Candlepower Distribution Curve
A graphical presentation of the distribution of light intensity of a light source, usually a reflector lamp or luminaire.

Capacitor
Device in ballast that stores electrical energy. Often used for power factor correction and lamp regulation.

Cathode
Metal filaments that emit electrons in a fluorescent lamp. Negatively charged free electrons emitted by the cathode are attracted to the positive electrode (anode), creating an electric current between the electrodes (see ELECTRODE).

Cathode Resistance
Resistance of the cathode in a Fluorescent lamp. It is measured "cold" before the lamp is turned on (Rc) or "hot" after the lamp is turned on (Rh). The ratio of the hot resistance to the cold resistance is also measured (Rh/Rc).

Center Beam Candlepower (CBCP)
Refers to the luminous intensity at the center of the beam of a blown or pressed reflector lamp (such as a PAR lamp). Measured in candelas (see CANDELA).

Ceramic Metal Halide (CMH®)
A type of metal halide lamp that uses a ceramic material for the arc tube instead of glass quartz, resulting in better color rendering (>80 CRI) and improved lumen maintenance. GE ConstantColor® CMH® lamps feature a 3-piece arc tube design that delivers excellent color consistency and lamp reliability.

ChromaFit™
A GE brand name for metal halide lamps designed to operate on HPS ballasts, allowing a user to switch from the yellowish color of HPS to the white color of metal halide without retrofitting ballasts. These products are available in both quartz metal halide and ceramic metal halide (CMH®) versions.

Class P Thermal Protector
A switching device sensitive to current and heat that automatically disconnects ballast if the temperature exceeds UL temperature limitations.

Coefficient of Utilization (CU)
In general lighting calculations, the fraction of initial lamp lumens that reach the work plane. CU is a function of luminaire efficiency, room surface reflectances and room shape.

Coil
Windings of copper or aluminum wire surrounding the steel core in ballast. Also refers to the entire assembly comprising the inductor or transformer.

Color Rendering Index (CRI)
An international system used to rate a lamp's ability to render object colors. The higher the CRI (based upon a 0-100 scale) the richer colors generally appear. CRI ratings of various lamps may be compared, but a numerical comparison is only valid if the lamps are close in color temperature. CRI differences among lamps are not usually significant (visible to the eye) unless the difference is more than 3–5 points.

Color Temperature (Correlated Color Temperature – CCT)
A number indicating the degree of "yellowness" or "blueness" of a white light source. Measured in kelvins, CCT represents the temperature an incandescent object (like a filament) must reach to mimic the color of the lamp. Yellowish-white ("warm") sources, like incandescent lamps, have lower color temperatures in the 2700K–3000K range; white and bluish-white ("cool") sources, such as cool white (4100K) and natural daylight (6000K), have higher color temperatures. The higher the color temperature the whiter, or bluer, the light will be.

Compact Fluorescent Lamp (CFL)
The general term applied to fluorescent lamps that are single-ended and that have smaller diameter tubes that are bent to form a compact shape. Some CFLs have integral ballasts and medium or candelabra screw bases for easy replacement of incandescent lamps.

ConstantColor®
A GE registered name for lamp families that show very little color shift over life, such as GE's Precise™ MR16 lamps and GE's ceramic metal halide (CMH®) lamps.

Cool White
A term loosely used to denote a color temperature of around 4100K. The Cool White (CW) designation is used specifically for T12 and other fluorescent lamps using halophosphors and having a CRI of 62.

Core
Component of electromagnetic ballast that is surrounded by the coil. Core is comprised of steel laminations or solid ferrite material.

Core & Coil Ballast
A ballast that uses a "Core & Coil" assembly to operate fluorescent or HID lamps. Refers to copper or aluminum windings on a steel core.

Cost of Light
Usually refers to the cost of operating and maintaining a lighting system on an ongoing basis. The 88-8-4 rule states that (typically) 88% is the cost of electricity, 8% is labor and only 4% is the cost of lamps.

covRguard®
A lamp encased by a plastic sleeve or coating to help contain glass fragments if the lamp breaks.

Crest Factor (Lamp Current Crest Factor)
Ratio of peak to RMS for any AC waveform. Crest factor can refer to voltage crest factor or current crest factor.

Current Type (AC/DC)
Whether the operational voltage is based on Alternating Current or Direct Current.

Daylight Harvesting
Lighting design for building interiors that makes use of daylight as a way of reducing energy consumption.

Dimmer, Dimming Control
A device used to lower the light output of a source, usually by reducing the wattage it is being operated at. Dimming controls are increasing in popularity as energy conserving devices.

Discharge Lamp
A lamp where light is emitted from an electrical discharge between two electrodes as opposed to a filament lamp. Examples are: Fluorescent lamps and HID (High Intensity Discharge) lamps like Metal Halide, Mercury and High Pressure Sodium. All discharge lamps require some kind of current-limiting device, e.g. a ballast, to operate them.

Ecolux®
A term for GE lamps that have reduced mercury content and pass the TCLP test.

Edison
GE's trademark for a wide range of halogen lamps for the consumer market.

Efficacy
A measurement of how effective the light source is in converting electrical energy to lumens of visible light. Expressed in lumens-per-watt (LPW), this measure gives more weight to the yellow region of the spectrum and less weight to the blue and red regions where the eye is not as sensitive. The efficiency of a light source is simply the fraction of electrical energy converted to light, i.e. watts of visible light produced for each watt of electrical power with no concern about the wavelength where the energy is being radiated. For example, a 100-watt incandescent lamp converts 7% of the electrical energy into light; discharge lamps convert 25% to 40% into light.

Efficiency
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The efficiency of a luminaire or fixture is the percentage of the lamp lumens that actually comes out of the fixture (see LUMINAIRE EFFICIENCY).

Efficiency of Ballast
The ratio of output power divided by input power. A premium ballast would have an electrical efficiency greater than 90%. The efficiency of a luminaire or fixture is the percentage of the lamp lumens that actually comes out of the fixture.

e-HID ballast (see ELECTRONIC HID BALLAST).

Electrical Discharge
A condition under which a gas becomes electrically conducting and becomes capable of transmitting current, usually accompanied by the emission of visible and other radiation. An electric spark in air is an example of an electrical discharge, as is a welder's arc and a lightning bolt.

Electrical Testing Laboratory (ETL)
Independent testing laboratory that performs ballast tests and certifies accuracy of performance data.

Electrode
Any metal terminal emitting or collecting charged particles, typically inside the chamber of a gas discharge lamp. In a fluorescent lamp, the electrodes are typically metal filaments coated with special powders called emission mix. Negatively charged free electrons emitted by one electrode are attracted to the positive electrode (anode), creating an electric current and arc between electrodes.

Electrodeless Lamps
Light sources where the discharge occurs in a chamber with no electrodes (no metal). The energy for the discharge is supplied by radio frequency excitation, e.g. microwaves (see INDUCTION LIGHTING and GENURA®).

Electromagnetic Ballast (see MAGNETIC BALLAST).

Electromagnetic Spectrum
A continuum of electric and magnetic radiation that can be characterized by wavelength or frequency. Visible light encompasses a small part of the electromagnetic spectrum in the region from about 380 nanometers (violet) to 770 nanometers (red) by wavelength.

Electromagnetic Interference (EMI)
High-frequency electronic ballasts and other electronic devices can produce a small amount of radio waves that can interfere with radio and TV. Federally-mandated requirements must be met for EMI levels before an electronic device is considered FCC compliant (FCC is the Federal Communications Commission).

Electronic Ballast
A short name for a fluorescent high-frequency electronic ballast. Electronic ballasts use solid-state electronic components and typically operate fluorescent lamps at frequencies greater than 25 kHz. The benefits are: increased lamp efficacy, reduced ballast losses and lighter, smaller ballasts compared to electromagnetic ballasts. Electronic ballasts may also be used with HID (high intensity discharge) lamps (see MAGNETIC BALLASTS).

Electronic HID Ballast
An electronic ballast capable of operating an HID lamp. GE's UltraMax® (electronic HID ballast) operates PulseArc® (metal halide) and CMH® (ceramic metal halide) lamps between 250W and 400W and provides higher efficiency and significantly improved lumen maintenance over magnetic ballasts.

Elliptical Reflector (ER) Lamp
An incandescent lamp with a built-in elliptically shaped reflecting surface. This shape produces a focal point directly in front of the lamp which reduces light absorption in some types of luminaires. It is particularly effective at increasing the efficiency of baffled downlights.

Energy Policy Act (EPACT)
Comprehensive energy legislation passed by the U. S. Congress. The lighting portion includes lamp labeling and minimum energy efficacy (lumens/watt) requirements for many commonly used incandescent and fluorescent lamp types. Federal Canadian legislation sets similar minimum energy efficacy requirements for incandescent reflector lamps and common linear fluorescent lamps.

Glossary of Terms

ENERGY STAR®
U.S. Department of Energy (DOE) designation for products meeting certain energy efficiency and performance standards. Among manufacturers of compact fluorescent lamps, GE has the largest number of ENERGY STAR® products as listed on the Federal Government's website.

EOL (End-of-Life Protection)
A circuit that senses that a lamp has reached end of life (compact fluorescent lamps and small-diameter linear fluorescent lamps) and turns off power to the lamp. Continuing to power the lamp beyond end of life can result in overheating of the lamp ends.

Federal Communications Commission (FCC)
The U. S. federal agency that regulates emissions in the radio frequency portion of the electromagnetic spectrum. Part 18 of the FCC rules specifies electromagnetic interference (EMI) from lighting devices at frequencies greater than 450 kilohertz (kHz). A consumer-rated Class B ballast is designed for use in the home near TV and radio receivers. It produces less electrical noise that could interfere with consumer products. A Class A-rated ballast is designed for use in commercial and industrial applications that are not in the vicinity of TV and radio receivers.

Field Angle
The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 10% of maximum (see BEAM ANGLE).

Flicker
The periodic variation in light level caused by AC operation that can lead to strobe effects.

Fluorescent HO
Fluorescent HO and VHO lamps require special ballasts that generate higher currents than standard ballasts and operate the lamps at higher wattage than standard lamps. These lamps are generally less efficient than the standard product. Metal Halide HO and XHO lamps operate on the same ballasts as standard lamps and at the same wattage but are more efficient and produce higher light output than standard lamps.

Fluorescent Lamp
A high efficiency lamp utilizing an electric discharge through low pressure mercury vapor to produce ultra-violet (UV) energy. The UV excites phosphor materials applied as a thin layer on the inside of a glass tube which makes up the structure of the lamp. The phosphors transform the UV to visible light.

Footcandle (fc)
A unit of illuminance or light falling onto a surface. It stands for the light level on a surface one foot from a standard candle. One footcandle is equal to one lumen per square foot (see LUX).

Four-Pin Compact Fluorescent Lamps
A "plug-in" compact fluorescent lamp with 4 pins in the base to make electrical contact with the ballast. Four-pin lamps can be dimmed on appropriate dimming ballasts while two-pin lamps cannot.

Frequency
Rate of alternation in an AC current. Expressed in cycles per second or Hertz (Hz).

Full Spectrum Lighting
A marketing term, typically associated with light sources that are similar to some forms of natural daylight (5000K and above, 90+ CRI), but sometimes more broadly used for lamps that have a smooth and continuous color spectrum.

Genura®
GE's electrodeless compact fluorescent lamp, Genura®, uses induction to power the discharge. The chamber generates UV (just like a discharge in a regular fluorescent lamp) that is converted by phosphors to visible light. Because Genura® uses no electrodes, the life of this unique reflector lamp is longer than typical compact fluorescent products (see INDUCTION LIGHTING).

Glare
Visual discomfort caused by excessive brightness is called discomfort glare. If task performance is affected it is called disability glare. Glare can be direct glare or indirect (reflected) glare.

Group Relamping
The practice of replacing all the lamps at an installation at one time with new lamps when the lamps have operated for (typically) 65% to 70% of rated life. The two benefits of group relamping are: (1) reduced maintenance costs because of the expense and inconvenience of replacing failing lamps one at a time, and (2) improved appearance and performance since older lamps are often degrading in brightness and color as they age.

Halogen Lamp
A halogen lamp is an incandescent lamp with a filament that is surrounded by halogen gases, such as iodine or bromine. Halogen gases allow the filaments to be operated at higher temperatures and higher efficacies. The halogen participates in a tungsten transport cycle, returning tungsten to the filament and prolonging lamp life. All halogen lamps have a tungsten filament and, often, a quartz envelope.

HIR™
GE designation for high-efficiency tungsten halogen lamps. HIR lamps utilize shaped filament tubes coated with numerous layers of materials that transmit light but reflect the heat (infrared) back onto the filament. This reduces the power needed to keep the filament hot.

Harmonic
An integral multiple of the fundamental frequency (60 Hz) that becomes a component of the current.

Harmonic Distortion (see TOTAL HARMONIC DISTORTION or THD).

Hertz (Hz)
Unit used to measure frequency of alteration of current or voltage, in cycles per second.

High-Efficiency (Energy Saving) Electromagnetic Ballast
Ballast with core & coils, designed to minimize ballast losses compared to the "standard" ballast.

Highbay Lighting
Lighting designed for (typically) industrial locations with a ceiling height of 25 feet and above.

High Intensity Discharge (HID) Lamp
A general term for mercury, metal halide (GE ConstantColor® CMH®, Multi-Vapor®, MXR or Arcstream®) and high-pressure sodium (GE Lucalox®) lamps. HID lamps contain compact arc tubes which enclose various gases and metal salts operating at relatively high pressures and temperatures.

High Output/Very High Output (HO, VHO) Lamps
Designation for lamps generating more light than standard lamps.

High Power Factor
A ballast whose power factor is corrected to 90% or greater.

High-Pressure Sodium (HPS) Lamp
HPS lamps are high intensity discharge light sources that produce light by an electrical discharge through sodium vapor operating at relatively high pressures and temperatures. GE markets these lamps under the trade name of Lucalox®.

Hot Restart Time
If there is a momentary power interruption and the HID lamp goes out, there will be a delay of 10 to 15 minutes before the lamp has cooled down sufficiently to start again. This is called the Hot Restart time. PulseArc® lamps have a significantly shorter Hot Restart time (typically 3–5 minutes) than standard metal halide lamps. Lucalox® Standby lamps will start up immediately while standard Lucalox® lamps require a few minutes.

Ignitor
An electronic device providing a high voltage pulse to initiate an electrical discharge. Typically, the ignitor is paired with or is a part of the ballast.

Illuminance
The "density" of light (lumens/area) incident on a surface; i.e. the light level on a surface. Illuminance is measured in footcandles or lux.

Incandescent Lamp
A light source that generates light utilizing a thin filament wire (usually of tungsten) heated to white heat by an electric current passing through it.

Indirect Lighting
The method of lighting a space by directing the light from luminaires upwards towards the ceiling. The light scattered off the ceiling produces a soft, diffuse illumination for the entire area.

Induction Lighting
Gases can be excited directly by radio-frequency or microwaves from a coil that creates induced electromagnetic fields. This is called induction lighting and it differs from a conventional discharge, which uses electrodes to carry current into the arc. Induction lamps have no electrodes inside the chamber and generally, therefore, have longer life than standard lamps. Genura® is an example of an induction lamp.

Infrared Radiation
Electromagnetic energy radiated in the wavelength range of about 770 to 1,000,000 nanometers. Energy in this range cannot be seen by the human eye, but can be sensed as heat by the skin.

Input Voltage
Power supply voltage required for proper operation of fluorescent or HID ballast.

Input Watts
The total power input to the ballast that includes lamp watts and ballast losses. The total power input to the fixture is the input watts to the ballast or ballasts and is the value to be used when calculating cost of energy and air conditioning loads. More than 90% of the input watts is wattage or power delivered to the lamp load with typical ballast.

Instant Start
A type of ballast designed to start fluorescent lamps as soon as the power is applied. Most T8 fluorescent lamps are being operated on electronic instant-start ballasts. Slimline fluorescent lamps operate only on instant-start circuits.

Instant-Start Lamp
A fluorescent lamp, usually with a single pin at each end, approved to operate on instant-start ballasts. The lamp is ignited by a high voltage without any filament heating.

Integral
A popular term for a compact fluorescent lamp that includes a built-in ballast (see CFL).

Kelvins (see COLOR TEMPERATURE).

Kilowatt (kW)
A measure of electrical power equal to 1000 watts.

Kilowatt Hour (kWh)
The standard measure of electrical energy and the typical billing unit used by electrical utilities for electricity use. A 100-watt lamp operated for 10 hours consumes 1000 watt-hours (100 x 10) or one kilowatt-hour. If the utility charges $.10/kWh, then the electricity cost for the 10 hours of operation would be 10 cents (1 x $.10).

Laminations
Layers of steel, making up the "core" that is surrounded by the coils in a core & coil ballast.

Lamp
The term used to refer to the complete light source package, including the inner parts as well as the outer bulb or tube. "Lamp," of course, is also commonly used to refer to a type of small light fixture such as a table lamp.

Lamp Current Crest Factor
Ratio of peak lamp current to RMS or average lamp operating current.

Lamp Types

Filament lamps:	Incandescent, Halogen, Halogen-IR®.
Discharge Lamps:	Fluorescent, HID (High Intensity Discharge)
HID Lamps:	Mercury, HPS (High-Pressure Sodium), MH (Metal Halide) and CMH® (Ceramic Metal Halide)

Lamp Watts
Power dissipated in the lamp—some of which is converted to light, some to heat and some to ultraviolet.

Life (see RATED LAMP LIFE).

Light
Radiant energy that can be sensed or seen by the human eye. Visible light is measured in lumens.

Light Center Length (L.C.L.)
The distance between the center of the filament, or arc tube, and a reference plane—usually the bottom of the lamp base. See L.C.L. Reference Plane Location chart on page A-1.

Light Emitting Diode (LED)
A solid that directly converts electrical impulses into light. Some LEDs today incorporate fluorescent materials to change the color characteristics of the emitted light.

Light Loss Factor (LLF)
The product of all factors that contribute to lowering the illumination level including reflector degradation, dirt, lamp depreciation over time, voltage fluctuations, temperature effects, burn-out factor, etc.

Lucalox®
The GE brand name for high-pressure sodium lamps.

Lumen
A measure of luminous flux or quantity of light emitted by a source. For example, a dinner candle provides about 12 lumens. A 60-watt Soft White incandescent lamp provides 840 lumens.

Lumen Depreciation, Lumen Maintenance
A measure of how well a lamp maintains its light output over time. It may be expressed numerically or as a graph of light output vs. time. The "mean lumens" of a lamp is the lumens at 40% of rated life (50% for HPS lamp).

Lumens Per Watt (LPW)
A ratio expressing the luminous efficacy of a light source.

Typical lamp efficacies:

Edison's first lamp	1.4 LPW
Incandescent lamps	10-20
Halogen lamps	15-30
Fluorescent lamps	35-105
Mercury lamps	50-60
Metal halide lamps	60-120
High-pressure sodium lamps	60-140

Note: The values above for discharge lamps do not include the effect of the ballasts, which must be used with those lamps. Taking ballast losses into account reduces "system" or lamp ballast efficacies typically by 10-20% depending upon the type of ballast used.

Luminaire
A complete lighting unit consisting of a lamp (or lamps), ballast (or ballasts) as required together with the parts designed to distribute the light, position and protect the lamps and connect them to the power supply. A luminaire is often referred to as a fixture.

Luminaire Efficiency
The ratio of total lumens emitted by a luminaire to those emitted by the lamp or lamps used in that luminaire.

Luminance
A photometric measure of "brightness" of a surface as seen by the observer, measured in candelas per square meter.

Luminous Efficacy
The light output (lumens) of a light source divided by the total power input (watts) to that source. It is expressed in lumens per watt (see LUMENS PER WATT).

Lux (lx)
A unit of illuminance or light falling onto a surface. Lux stands for the light level on a surface one meter from a standard candle. One lux is equal to one lumen per square meter. Ten lux approximately equals one footcandle (see FOOTCANDLE).

Magnetic Ballast
A ballast used with discharge lamps that consists primarily of transformer-like copper or aluminum windings on a steel or iron core. Also called "Core & Coil" (see ELECTRONIC BALLASTS).

Maximum Overall Length (M.O.L.)
The end-to-end measurement of a lamp, expressed in inches or millimeters.

Mean Lumens
The average light output of a lamp over its rated life. Based on the shape of the lumen depreciation curve, for fluorescent and metal halide lamps, mean lumens are measured at 40% of rated lamp life. For mercury, high-pressure sodium and incandescent lamps, mean lumen ratings refer to lumens at 50% of rated lamp life (see LUMEN MAINTENANCE).

Medium Base
Usually refers to the screw base typically used in household incandescent lamps. There is also the medium bi-pin base commonly used in T12 and T8 fluorescent lamps.

Mercury Lamp
A high-intensity discharge light source operating at a relatively high pressure (about 1 atmosphere) and temperature in which most of the light is produced by radiation from excited mercury vapor. Phosphor coatings on some lamp types add additional light and improve color rendering.

Metal Cases
Case design used in both magnetic and electronic ballasts. These ballasts are grounded once they are mounted to the fixture. They meet all safety codes, some of which do not allow plastic in open plenum areas.

Metal Halide Lamp
A high-intensity discharge light source in which the light is produced by the radiation from mercury, plus halides of metals such as sodium, scandium, indium and dysprosium. Some lamp types may also utilize phosphor coatings. GE trade names include: Multi-Vapor®, ConstantColor® CMH®, PulseArc®, Staybright®, Watt-Miser®, ChromaFit™ and Arcstream®.

Mogul Base
A screw base used on larger lamps, e.g. many HID lamps.

Mortality Curve
Lamps have a rated or expected life but individual failures occur earlier and some lamps will last longer. The mortality curve depicts the expected percent surviving in a group of lamps at various points between zero hours and rated life or beyond. The curve starts with 100% at zero hours and goes to 50% surviving at the rated life (e.g. 3000 hours or 20,000 hours, etc.) However, the shape of the curve between these two end points can vary depending on the lamp type.

Mounting Height
Distance from the bottom of the fixture to either the floor or work plane, depending on usage.

Multi-Vapor®
A GE brand name for metal halide lamps.

Nanometer
A unit of wavelength equal to one billionth of a meter.

National Energy Standards for Fluorescent Ballasts
A federal law enacted in 1988 that sets energy standards for ballasts consistent throughout the United States.

National Electric Code (NEC)
A nationally accepted electrical installation code to reduce the risk of fire, developed by the National Fire Protection Association.

Glossary of Terms

National Stock Number
The standardized part number used by the U.S. Government for procurement.

NOM
Laboratory that sets safety standards for building materials, electrical appliances and other products for Mexico.

Non-PCB Capacitor
Capacitor used in ballasts to help provide power factor correction. Contains no polychlorinated biphenyls and meets EPA requirements.

Normal Power Factor
Ballasts with power factor less than .90 and do not incorporate any means of Power Factor Correction.

Open Circuit Voltage (OCV)
Open Circuit Voltage measured across the socket the lamp screws into, with the ballast powered on. It is dangerous to stick a voltmeter into such a socket without precise knowledge of the ballast because exceedingly high voltages could be present.

Operating Voltage
For electrical discharge lamps, this is the voltage measured across the discharge when the lamp is operating. It is governed by the contents of the chamber and is somewhat independent of the ballast and other external factors.

PAR Lamp
PAR is an acronym for parabolic aluminized reflector. A PAR lamp, which may utilize either an incandescent filament, a halogen filament tube or an HID arc tube, is a precision pressed-glass reflector lamp. PAR lamps rely on both the internal reflector and prisms in the lens for the control of the light beam.

Parallel Lamp Operation/Parallel Wiring
Refers to ballasts that employ multiple output current paths from a single ballast to allow lamps to operate independent of one another, allowing other lamps operated by the ballast to remain lit should companion lamp(s) fail (see SERIES LAMP OPERATION).

PCB (Polychlorinated Biphenyls)
Chemical pollutant formerly used in ballast capacitors that were part of ballasts. It is now illegal to use PCBs and most such ballasts have been replaced over time.

Phosphor
An inorganic chemical compound processed into a powder and deposited on the inner glass surface of fluorescent tubes and some mercury and metal-halide lamp bulbs. Phosphors are designed to absorb short-wavelength ultraviolet radiation and to transform and emit it as visible light.

Photometry
The measurement of light and related quantities.

Photopic (see SCOTOPIC/PHOTOPIC).

Potting
Material used to completely surround and cover components of some magnetic and electronic ballasts. Potting compound fulfills functions of protecting components, dampening sound, and dissipating heat.

Power Factor (PF)
A measure of the phase difference between voltage and current drawn by an electrical device, such as a ballast or motor. Power factors can range from 0 to 1.0 with 1.0 being ideal. Power factor is sometimes expressed as a percent. Incandescent lamps have power factors close to 1.0 because they are simple "resistive" loads. The power factor of a fluorescent and HID lamp system is determined by the ballast used. "High" power factor usually means a rating of 0.9 or greater. Power companies may penalize users for using low-power-factor devices.

Power Factor Corrected
Ballasts that incorporate a means of Power Factor Correction yielding power factor of 90% or greater.

Precise™
The GE trade name for the compact MR-16 and MR-11 low-voltage halogen dichroic cool beam reflectorized spot and flood lamps.

Preheat Circuit
A type of fluorescent lamp-ballast circuit used with the first commercial fluorescent lamp products. A push button or automatic switch is used to preheat the lamp cathodes. Starting the lamp can then be accomplished using simple "choke" or reactor ballasts. A preheat fluorescent lamp is one in which the filament must be heated by use of a starter before the arc is created. These lamps are typically operated with electromagnetic ballasts.

Product Code
It is important to use this five-digit code when ordering to ensure that you receive the exact product you require.

Programmed Rapid Start
Lamp starting method which preheats the lamp filaments while not allowing the lamp to ignite and then applies the open circuit voltage (OCV) to start the lamp. The user may experience a half- to one-second delay after turning on the lamps while the preheating takes place. This type of starting circuit keeps lamp end blackening to a minimum and improves lamp life performance, especially in applications where the lamps are frequently switched on and off.

PulseArc®
GE description for a type of metal halide lamp that provides improved lumen maintenance for longer useful life and extended relamp cycles. These products are designed to operate on ballasts that have ignitors to help with lamp starting.

Pulse Start
The generic name for a PulseArc® lamp or for an HID ballast with a high-voltage ignitor to start the lamp.

Quartz
A name for fused silica or melted sand from which many high-temperature containers are fashioned in the lighting industry. Quartz looks like glass but can withstand the high temperatures needed to contain high-intensity arc discharges.

Quartz-Halogen Lamp (see HALOGEN LAMP).

Quartzline®
A GE registered trademark term for some types of halogen lamps.

Radiation
A general term for the release of energy in a "wave" or "ray" form. All light is radiant energy or radiation, as is heat, UV, microwaves, radio waves, etc.

Rapid Start
Lamp starting method in which lamp filaments are heated while open circuit voltage (OCV) is applied to facilitate lamp ignition. A Rapid Start fluorescent lamp has two pins at each end connected to the filament. Some rapid start lamps may be instant-started without filament heat, for example, the F32T8 lamp.

Rapid Start Circuit
A fluorescent lamp-ballast circuit that utilizes continuous cathode heating, while the system is energized, to start and maintain lamp light output at efficient levels. Rapid start ballasts may be either electromagnetic, electronic or of hybrid designs. Full-range fluorescent lamp dimming is only possible with rapid start systems.

Rated Lamp Life
For most lamp types, rated lamp life is the length of time of a statistically large sample between first use and the point when 50% of the lamps have died. It is possible to define "useful life" of a lamp based on practical considerations involving lumen depreciation, color shift and also on the need to reduce lamp replacement costs (see GROUP RELAMPING).

Reflector Lamp (R)
A light source with a built-in reflecting surface. Sometimes, the term is used to refer specifically to blown bulbs like the "R" and "ER" lamps; at other times, it includes all reflectorized lamps like PAR and MR.

Reveal®
GE's product family of incandescent lamps with the element neodymium added to the glass bulb. Neodymium filters out much of the yellow light produced by ordinary lamps. Less yellow means whites look whiter and colors appear more vibrant in spaces lighted with Reveal® lamps.

Room Cavity Ratio (RCR)
A shape factor (for a room, etc.) used in lighting calculations.
RCR = 5H (L+W) / L x W, or, alternately,
RCR = (2.5) Total Wall Area / Floor Area.
Where H = height, L = length and W = width of the room. A cubical room will have an RCR of 10; the flatter the room the lower the RCR.

Scotopic/Photopic (S/P) Ratio
This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (scotopic vision) and cones to yellow light (photopic vision). The Scotopic/Photopic (S/P) Ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ratio of scotopic lumens to photopic lumens for the light source on an ANSI reference ballast. Cooler sources (higher-color-temperature lamps) tend to have higher values of the S/P Ratio compared to warm sources.

Self-Ballasted Lamps
A discharge lamp with an integral ballasting device allowing the lamp to be directly connected to a socket providing line voltage (see CFL).

Series Lamp Operation
Refers to ballasts that employ a single current path passing through all lamps operated by the ballast. If one lamp should fail, companion lamps operated by the same ballasts will also extinguish or dim.

Spacing to Mounting Height Ratio
Ratio of fixture spacing (distance apart) to mounting height above the work plane; sometimes called spacing criterion. It is OK to have fixture spaced closer than the spacing criterion suggested by the manufacturer but not farther, or you will get dark spots in-between fixtures.

Specification Series (SP) Colors
Energy-efficient, all-purpose tri-phosphor fluorescent lamp colors that provide good color rendering. The CRI for SP colors is 70 or above and varies by specific lamp type. See Lamp Color Chart on page A-10.

Specification Series Deluxe (SPX) Colors
Energy-efficient tri-phosphor fluorescent lamp colors that provide better color rendering than Specification Series (SP) colors. The CRI for SPX colors is 80 or higher and varies by specific lamp type. All GE CFL products use SPX phosphors. See Lamp Color Chart on page A-10.

Specification Series Deluxe eXtreme (SPXX) Colors
A color designation for GE ceramic metal halide lamps with superior color rendering ~ 90.

Specular Reflection
Reflection from a smooth, shiny surface, as opposed to diffuse reflection.

Spectral Power Distribution (SPD)
A graph of the radiant power emitted by a light source as a function of wavelength. SPDs provide a visual profile or "fingerprint" of the color characteristics of the source throughout the visible part of the spectrum. Also called "spectral curve" or "spectrum."

Spiral® Lamp
GE trademark for its helical family of high-efficiency, long-life compact fluorescent lamps.

Starcoat®
GE's special barrier coating applied on the inside of all GE T8 fluorescent lamps, as well as some other lamp types, to enhance lamp life and deliver superior lumen maintenance.

Starter
An electronic module or device used to assist in starting a discharge lamp, typically by providing a high-voltage surge (see IGNITOR).

Starting Temperature (Minimum)
The minimum ambient temperature at which the lamp will start reliably on the ballast.

T12, T8, T5
A designation for the diameter of a tubular bulb in eighths of an inch; T12 is 12 eighths of an inch, or 1-1/2 inches; T8 is 1 inch, and so on.

Task Lighting
Supplemental lighting provided to assist in performing a localized task, e.g. a table lamp for reading or an inspection lamp for fabric inspection.

Terminal-to-Terminal Starting Lamp Voltage (VRMS) (Minimum or Maximum)
The minimum or maximum voltage allowed into lamp from ballast under varying conditions as specified.

TCLP Test
The Toxicity Characteristic Leaching Procedure (TCLP) test, specified in the Resource Conservation and Recovery Act (RCRA) of 1990, is used to characterize fluorescent lamp waste as hazardous or nonhazardous waste. The TCLP test measures the ability of the mercury and/or lead in a lamp to leach from a landfill into ground water.

THD (see TOTAL HARMONIC DISTORTION).

Total Harmonic Distortion (THD)
A measure of the distortion of the input current on alternating current (AC) power systems caused by higher order harmonics of the fundamental frequency (60Hz in North America). THD is expressed in percent and may refer to individual electrical loads (such as a ballast) or a total electrical circuit or system in a building. ANSI C82.77 recommends THD not exceed 32% for individual commercial electronic ballasts, although some electrical utilities may require lower THDs on some systems. Excessive THDs on electrical systems can cause efficiency losses as well as overheating and deterioration of system components.

Transients
High voltage surges through an electrical system caused by lightning strikes to nearby transformers, overhead lines or the ground. May also be caused by switching of motors or compressors, as well as by short circuits or utility system switching. Can lead to premature ballast failure (see TVSS).

Troffer
A long, recessed lighting unit, usually installed in an opening in the ceiling.

Tungsten Halogen Lamp (see HALOGEN LAMP).

TVSS
Transient Voltage Surge Suppressors, which will protect ballasts and other electronic equipment from transient high-voltage spikes that may be present in the power line.

Two-Pin Compact Fluorescent Lamps
Type of lamps that have the glow bottle starter built into the base of the lamp. Traditionally 2-pin lamps are designed to work with electromagnetic ballasts (see FOUR-PIN COMPACT FLUORESCENT LAMPS).

Ultra
A common way of referring to high-efficiency GE T8 family of lamps and Ballast that performs better than standard T8 lamps. Also refers to the system.

UltraMax® Ballast
A family of high-efficiency GE instant-start electronic linear fluorescent ballasts designed to optimize GE's T8 Ultra lamps for enhanced system energy savings. UltraMax® ballasts have a low lamp current crest factor and virtually "read" and adapt to incoming voltage from 108V to 305V. Other features include UL Type CC Anti-Arc Rating and anti-striation control to eliminate lamp striations and spiraling. GE also has an UltraMax® HID ballast which can operate PulseArc® and CMH® lamps anywhere from 250 watts to 400 watts and provides greatly improved lumen maintenance.

UltraStart® Ballast
A family of high-efficiency GE Program Start electronic linear fluorescent ballasts designed to optimize GE's T8 Ultra lamps in frequently switched applications. Instant-start ballast provides 10,000 starts. UltraStart® provides 100,000 to 200,000 starts. Use program start ballast to ensure long lamp life when turning lamps on and off more that twice a day.

Ultraviolet (UV) Radiation
For practical purposes, any radiant energy within the range of 100–380 nanometers. It is beyond the blue or violet region of the spectrum, and is invisible to the eye just like the silent "ultrasound" dog whistle is inaudible to the ear.

UV is divided into 3 regions:

UVA	100 to 280 nm
UVB	280 to 315 nm
UVC	315 to 400 nm

Some wavelengths (180–220) produce ozone, some (220–300) are bactericidal, some (280–320) erythemal (redden human skin), others (320–400) cause secondary luminance (black light).

Ultra Watt-Miser®
GE's family of energy-saving T8 fluorescent lamps.

Underwriters Laboratories (UL)
A private organization which tests and lists electrical (and other) equipment for electrical and fire safety according to recognized UL and other standards. A UL listing is not an indication of overall performance. Lamps are not UL listed except for compact fluorescent lamp assemblies – those with screw bases and built-in ballasts.

Uniform Product Code (UPC)
The 12-digit code on the saleable unit that is used for scanning at the register.

Veiling Reflection
Effective reduction in contrast between task and its background caused by the reflection of light rays; sometimes called "reflected glare." You might have dealt with veiling reflections when you have to tilt a shiny magazine to avoid glare so as to read it, or struggled with reading a computer monitor because of the reflection of a window or a light fixture.

Visual Comfort Probability (VCP)
For a given lighting scheme, VCP is a ratio expressed as a percent of people who, when viewing from a specific location and in a specified direction, find the system acceptable in terms of glare (see GLARE).

Volt
A measure of "electrical pressure" between two points. The higher the voltage, the more current will be pushed through a resistor connected across the points. The volt specification of an incandescent lamp is the electrical "pressure" required to drive it at its designed point. The "voltage" of a ballast (e.g. 277 V) refers to the line voltage it must be connected to.

Voltage
A measurement of the electromotive force in an electrical circuit or device expressed in volts. Voltage can be thought of as being analogous to the pressure in a waterline.

Voltage Surge
Transient spikes in line voltage that can be harmful to electronic equipment like computers and electronic ballasts. Surge suppressors are often used to protect against such transients.

Wall Temperature (Maximum Bulb)
The maximum operating bulb wall temperature in Celsius.

Warm-Up Time
HID lamps typically take a few minutes to warm up to full brightness after starting.

Glossary of Terms

Warm-Up Time to 90%
The time it takes for a High Intensity Discharge lamp to reach 90% of light output after being turned on.

Warm White
Refers to a color temperature around 3000K, providing a yellowish-white light.

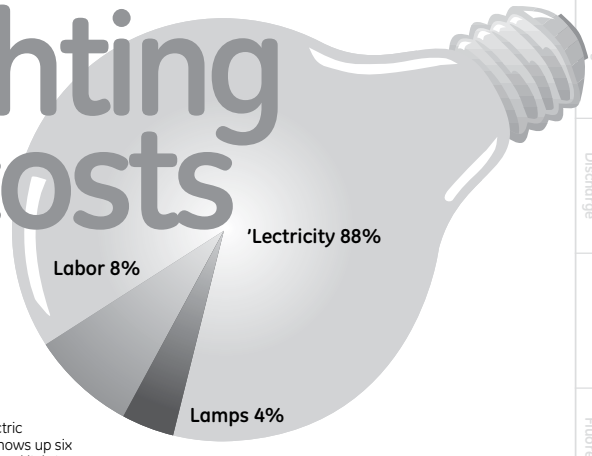
Watt
A unit of electrical power. Lamps are rated in watts to indicate the rate at which they consume energy (see KILOWATT HOUR).

Wattage Indicator Reduced
Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs.

Watt-Miser®
A Watt-Miser® lamp is a term used by GE to indicate a reduced-wattage lamp with performance characteristics (life, light output, etc.) such that it can usually directly replace a higher-wattage product. Watt-Miser® lamps are available in a wide range of incandescent, fluorescent and HID lamp types.

Wavelength
The distance between two neighboring crests of a traveling wave. The wavelength of light is between 400 and 700 nanometers.

the three 'Ls of Lighting costs



Electricity is the biggest chunk of your lighting costs

Averaging across different lamp types and systems, we estimate that only $1 of every $25 goes toward lamps, $2 toward labor, and ***$22 toward electricity!***

The simplest way to save energy is to retrofit with energy-efficient products and systems from GE Lighting: your #1 energy-saving choice!

And remember...every watt reduced in your lighting system results in a one-third watt reduction in your A/C load (while A/C is running). The reduced power consumption from an energy-efficient lighting upgrade results in an immediate reduction in the electric bill. However, there is another benefit that typically shows up six months to a year after the lighting upgrade. The reduced lighting loads (along with the accompanying reduction in air-conditioning load) often leads to a net reduction of peak electric demand for the site. This results in the electric bill going down even further since utilities have a demand charge based on the peak load at the site over a 15-minute to 30-minute period during the previous six months. Consult your utility company to discover the expected benefit from this effect.

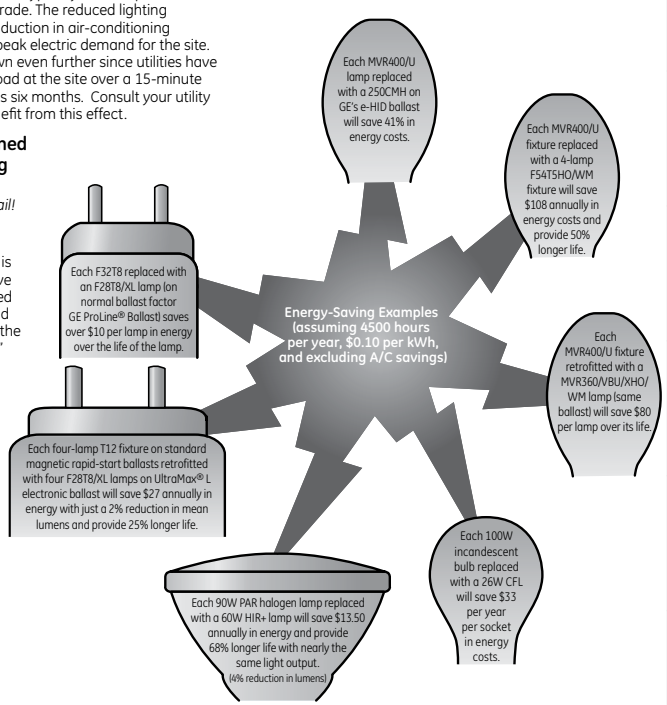
Reduce Labor Costs With Planned Maintenance/Group Relamping

Schedule your lighting maintenance instead of simply waiting for lamps to fail!

In any large installation, failure rates increase with age in a predictable way. The **optimal** point for group relamping is typically when 8% to 12% of lamps have failed, usually around two-thirds of rated life. At this point, both lumen output and lamp color may have deteriorated, yet the cost of electricity remains at "full price."

The per-lamp labor cost of installing new lamps is usually significantly less when an entire site is relamped, compared to the per-lamp labor cost of replacing lamps one at a time.

The result? The facility gets a face-lift and the maintenance costs over the next two or three years are generally significantly reduced. **Contact your GE Account Manager or GE Distributor to understand the full benefits of planned maintenance and to get set up on a money-saving group relamping schedule.**



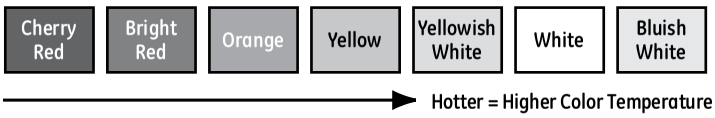
selecting the best color lamp

Descriptions: "Warm" Or "Cool"

When talking about white light sources (or about white paint) we use the descriptions "warm" and "cool." White light with a yellowish tinge, reminiscent of candlelight and fireplaces, is called "warm white." Incandescent lamps produce a warm white color. Bluish white, reminiscent of moonlight on cold snow, is considered "cool white." Fluorescent lamps can produce warm white or cool white, or anywhere in between, depending on the mix of phosphors used.

Correlated Color Temperature (CCT)

Correlated Color Temperature is a way of describing the degree of "yellowness" or "blueness" of a white light source. We relate the light source to the color of a hypothetical piece of hot metal. A piece of steel or tungsten as it is heated, will progressively change color in the sequence shown below:



When we say a lamp has a color temperature of 2700K—typical of incandescent lighting—it simply means that a piece of metal heated to a temperature of 2700 kelvins (which is about 3000°C or 5400°F) would mimic the color of the lamp. Such a source would be yellowish-white. In contrast, the color of a lamp at 6000K—typical of daylight entering through a window on a sunny day—can be mimicked by doubling the temperature of the hot metal piece to 6000 kelvins. This is significantly bluer or "cooler" than the light of incandescent lamps. Note that higher CCT refers to sources described as "cooler."

Generally, 4000K and above is considered "cool white," 3200K and below is "warm white," and 3500K is "neutral white."

Better Color Rendering For Better Appearance

There is no such thing as the "true" color of any material; the perceived color is a function of the light under which the material is viewed and the reflectance characteristics of the material itself. However, we can make a general statement: the higher the Color Rendering Index (CRI) of a light source (also denoted by R_a) the better—and more natural—colors typically appear under the light source.

In measuring CRI, scientists compare how eight specific colors appear under the source to how these same colors appear under a reference source. However, there are two reference sources: incandescent lighting is the reference for warm color lamps and daylight is the reference for cool color lamps. In this system, both incandescent lamps and daylight are considered to have "perfect" CRIs of nearly 100 even though, as we know, materials appear quite different when viewed under these light sources. These two sources are very different in color temperature (see below) although both have CRIs close to 100. CRI is, therefore, meaningful in comparing lamps that are close in color temperature.

CRI is not a perfect measure, but it is still useful as an indicator of the quality of light from a source.

Typical Color Indicators for Various Lamps	Correlated Color Temperature	Color Rendering Index
Incandescent Lamps		
Typical	2500-2800K	97-100
Halogen Lamps		
Typical	2800-3000K	97-100
Fluorescent Lamps (Ordered By CCT)		
C75 "Chroma Series"	7500K	90 +
SPX65 (865)	6500K	80 +
SP65 (765)	6500K	70 +
C50 "Chroma Series"	5000K	90 +
SPX50 (850)	5000K	80 +
SP50 (750)	5000K	70 +
SPX41 (841)	4100K	80 +
SP41 (741)	4100K	70 +
Cool White	4100K	62
SPX35 (835)	3500K	80 +
SP35 (735)	3500K	70 +
SPX30 (830)	3000K	80 +
SP30 (730)	3000K	70 +
Warm White	3000K	50
covRfresh	2750K	87
SPX27 (827)	2700K	80 +
Note: Some 4' T8 "SP" lamps, including reduced wattage types, may have a CRI >80.		
High Pressure Sodium Lamps		
Lucalox®	1900-2100K	22
Deluxe Lucalox®	2200K	65
Metal Halide Lamps		
Standard and PulseArc® MVR Multi-Vapor®	3000-4300K	65-75
MXR Multi-Vapor®	3200-3500K	65-70
Arcstream®	3000-6000K	75-90
Multi-Vapor® ChromaFit™	4000-4500K	65-70
Ceramic Metal Halide Lamps		
CMH®	3000-4200K	80-93
CMH® ChromaFit™	3000K	85