

Mazda



Lamp catalogue

A.E.I. Lamp and Lighting Co Ltd

A.E.I. LAMP AND LIGHTING CO LTD

RUGBY, WARWICKSHIRE*

**Incorporating the lamp and lighting business of
The British Thomson-Houston Co., Ltd.
The Edison Swan Electric Co., Ltd.
Metropolitan-Vickers Electrical Co., Ltd.**

*Many of the lamps listed in this catalogue
are also available in the Ediswan and
Metrovick brands.*

**With effect from 1st Jan. 1958 this address will be
Melton Road, Leicester.*

*Wherever British Standards exist, the lamps shown in
this catalogue are made to comply fully with the provisions
of such standards.*

*Prices in this catalogue apply only in the United Kingdom
and The Company reserve the right to change, without
notice, the design or specification of equipment shown in
the catalogue or supplied by them. All equipment is
offered subject to the Company's Standard Conditions
of Sale.*

*This catalogue supersedes Lamp Catalogue AL 113
dated August 1956.*

**GENERAL LIGHTING SERVICE
DECORATIVE—INFRA RED
REFLECTOR**

	Section
General Lighting Service ..	1
Silverlight	1
Pearl Pink	1
Rough Service	2
50mm. Round Bulb	2
Daylight Blue	2
Navigation	2
Architectural	3
Tubular	3
Candle	4
Sign	5
Decoration Sets	5
Infra Red	6
Reflector Spotlight	6

PROJECTOR & PHOTOGRAPHIC

	Section
Class A1	11
Class A3, B1, B2, E & F ..	12
Class G	13
Theatre Spotlight	13
Tubular Floodlight	13
Hospital Theatre	13
Enlarger	14
Photo Flood	14
Photographic Pearl	14
Studio	14
Xenon Electronic Flash ..	15
Photoflash	16

**TRANSPORT—AIRCRAFT
MINERS'—VISUAL INDICATOR
GENERAL INFORMATION**

	Section
Bus	21
Traction	21
Traffic Signal	21
Aircraft	22
Miners'	22
Switchboard Indicator ..	23
Telephone Visuals	23
Teletypewriter	23
Radio Panel	23
Neon	23
Lamp Outlines	24
Lampholders	25
Lamp Light Output	25
Circuits & Control Gear ..	26 & 27
Branch Addresses	28
General Information	Last page

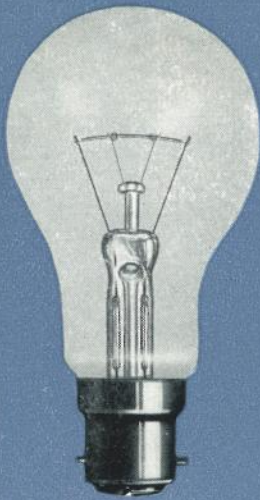
**FLUORESCENT &
ELECTRIC DISCHARGE**

	Section
Standard Fluorescent ..	7
Circular Fluorescent ..	8
Ultra Violet	8
Cold Cathode	8
Tungsten Ballast	8
Sodium Vapour	9
Mercury Vapour	9
Mercury Vapour/Fluorescent	10
Mercury Vapour/Tungsten ..	10
Mercury Vapour/Compact Source	10

**CAR BULBS—FLASHLIGHT
CYCLE DYNAMO**

	Section
Ordinary Headlight Bulbs ..	17
Prefocus Headlight Bulbs ..	18
Stop & Stop Tail	19
Side & Tail	19
Indicator	19
Festoon	19
Cycle Dynamo	20
Speedometer	20
Flashlight	20

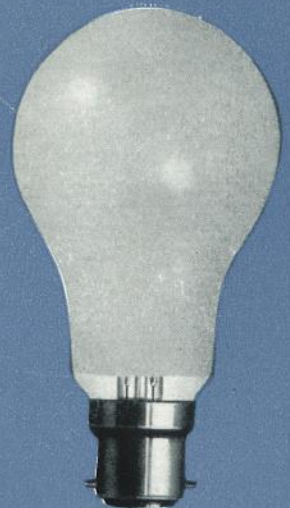
General Lighting Service



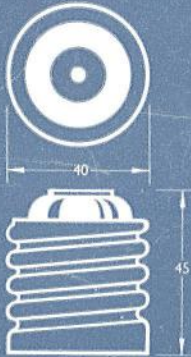
Clear



Silverlight



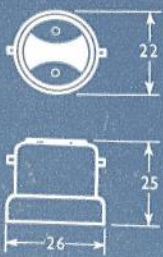
Pearl



G.E.S.

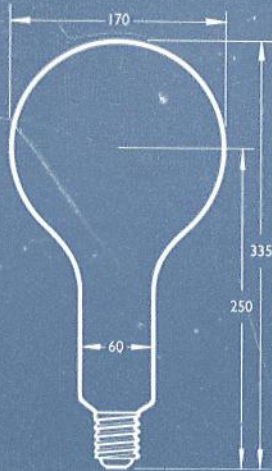


E.S.

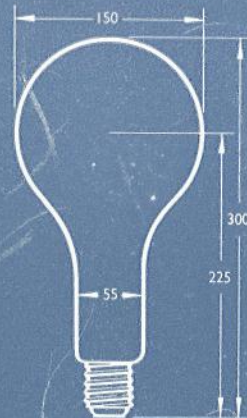


B.C.

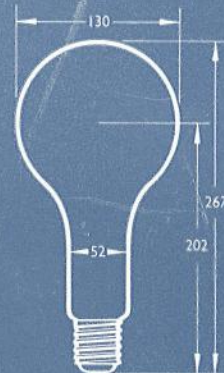
Dimensions in millimetres



1500 watt



1000 & 750 watt



500 watt



300 watt



200 watt



150 watt



100 & 75 watt



60 & 40 watt



25 watt



15 watt

General Lighting Service

Finish	Watts	Cap	Coiled Coil		Single Coil					
			Voltages and List Prices*							
			200-260 in 10 volt steps		200-260 in 10 volt steps		100, 110, 120 and 130		25, 35, 50, 55, 60, 65, 75	
s.	d.	s.	d.	s.	d.	s.	d.			
Clear	15	B.C. or E.S.	—	—	1	6½	1	6½	3	0
	25		—	—	1	6½	1	6½	3	0
	40		1	9	1	4½	1	6½	3	0
	60		1	9	1	4½	1	6½	3	0
	75		2	1½	1	10	2	0	—	—
	100	2	1½	1	10	2	0	4	0	
	150	—	—	2	7	2	9	—	—	
	200	—	E.S. or B.C.	3	9	4	3	—	—	
	300	—	G.E.S.	—	7	6†	8	0†	—	—
	500	—		10	0†	10	6†	—	—	
	750	—		14	6†	14	6†	—	—	
1000	—	16		0†	16	0†	—	—		
1500	—	22		6†	22	6†	—	—		
Pearl	15	B.C. or E.S.	—	—	1	6½	1	6½	3	0
	25		—	—	1	6½	1	6½	3	0
	40		1	9	1	4½	1	6½	3	0
	60		1	9	1	4½	1	6½	3	0
	75		2	1½	1	10	2	0	—	—
	100	2	1½	1	10	2	0	4	0	
	150	—	—	2	7	2	9	—	—	
	200	—	E.S. or B.C.	3	9	4	9	—	—	
300	—	G.E.S.	—	8	6†	9	0†	—	—	
500	—		11	0†	11	6†	—	—		
Silverlight <i>Patent 653,323</i>	40	B.C. or E.S.	2	0	—	—	—	—	—	
	60		2	0	—	—	—	—	—	
	100		2	4½	—	—	—	—	—	
	150	—	—	3	1	—	—	—	—	
	200	—	E.S. or B.C.	—	—	4	3	—	—	
Pearl Pink	60	B.C.	—	—	1	7½	—	—	—	
	100		—	—	2	1	—	—	—	
	150		—	—	3	1	—	—	—	

* Purchase Tax must be added to all prices shown in these columns except those marked thus † which are not subject. For the exact amount of tax to be added see TABLE A on the card insert.

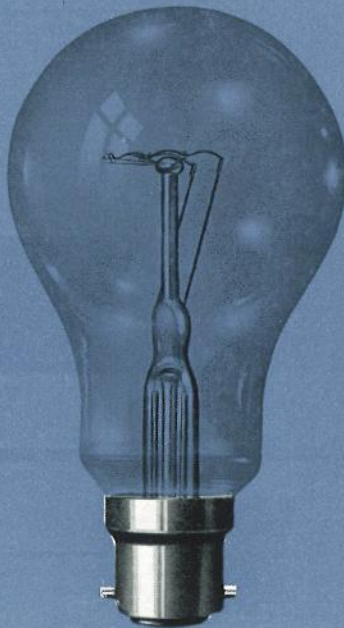
Coiled Coil
 These lamps give increased efficiency with the same lamp life. They provide up to 20% more light than equivalent Single Coil lamps; the extra light obtained is well worth the small extra cost.

Silverlight
 These lamps are internally coated with Silica. The effect is to give greatly increased diffusion of light, so reducing ceiling shadows, etc. Silica coating slightly increases light absorption.

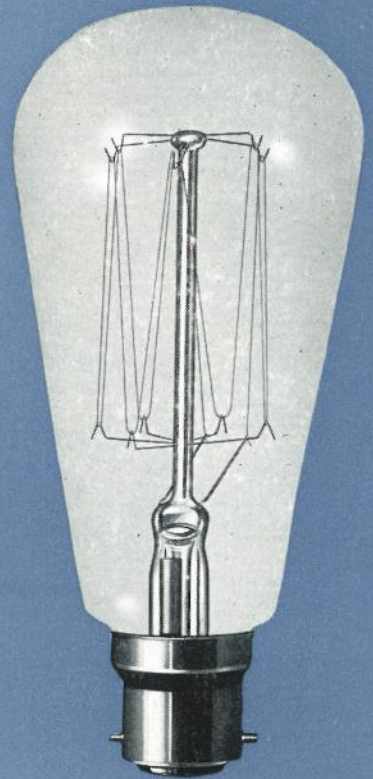
Pearl Pink
 This new lamp gives a soft warm light; it softens shadows and flatters complexions and furnishings. It can be thoroughly recommended for use in some Shops and Stores, Hotels, Cocktail Bars, etc., or in the lounge or hall at home.



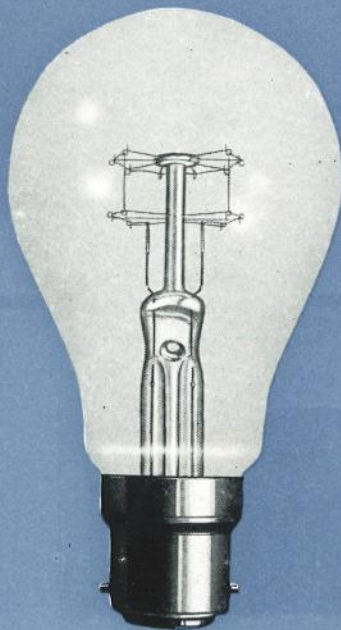
50 mm. Round Bulb



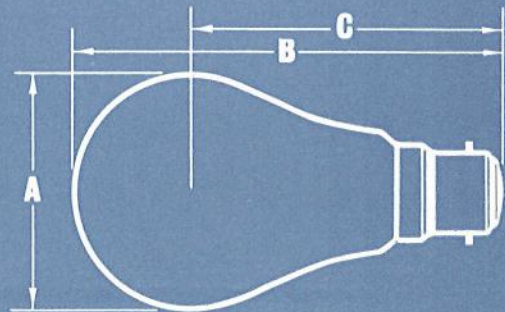
Daylight Blue



Navigation



60w. Rough Service



Watts	Dimensions in millimetres		
	A	B	C
40	60	110	80
60	65	117.5	85
100	68	125	90

Rough Service

These lamps have spiralled filaments which are retained in position by a greater number of supports than are used in lamps for general lighting purposes.

They are designed to operate at a slightly lower efficiency in order to increase mechanical strength. They will withstand severe vibration or continual movement.

50 mm. Round Bulb

These lamps are most suitable for applications where there is limited space for the light source. They are used extensively in many contemporary lighting fittings.

Daylight Blue

Manufactured from natural coloured blue glass these lamps give an illumination approaching North Sky light. The excess red light of ordinary tungsten filament output is filtered by this glass and so provides light which is most useful where colour discrimination is required.

Navigation

These lamps are vacuum and have a filament of squirrel-cage construction. They are suitable for use in ship's side lanterns.

Rough Service Pearl or Clear Single Coil					
Watts	Voltages	Cap	Dimensions		List* Price s. d.
			Length mm.	Diam. mm.	
40 60 100†	} 110, 120, 200/210, 220/230, 240, 250, 260	B.C. or E.S.	110	60	2 0
117.5			65	2 0	
125			68	2 9	

* Purchase Tax must be added to the prices in this column. For the exact amount of purchase tax to be added see TABLE A on the card insert.

† Pearl only; gasfilled.

50mm. Round Bulb						
Watts	Voltages	Cap	List Prices*			
			Clear		Pearl	
			s.	d.	s.	d.
25 40	} 200/210, 220/230, 240, 250	} B.C., S.B.C. or S.E.S.	2	0	2	0
2			3	2	3	

* Purchase Tax must be added to the prices of these lamps. For the exact amount of purchase tax to be added see TABLE A on the card insert.

Daylight Blue Dimensions as Section 1					
Watts	Cap	Voltages and List Prices*			
		110, 120		200/210, 220/230, 240, 250	
		s.	d.	s.	d.
40 60 100	} B.C. }	4	0	4	0
4		0	4	0	
5		6	5	6	

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE A on the card insert.

Navigation Straight Filament					
Watts	Voltages	Cap	Dimensions		List* Price s. d.
			Length mm.	Diam. mm.	
40 60	} 110, 120, 210, 220, 230	} B.C. or E.S.	140 max.	63 max.	3 9
150 max.			70 max.	4 0	

* Purchase Tax must be added to the prices in this column. For the exact amount of purchase tax to be added see TABLE A on the card insert.



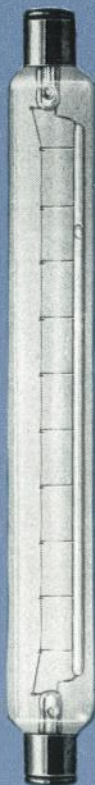
Tubular

Approx. $\frac{1}{2}$ × actual size

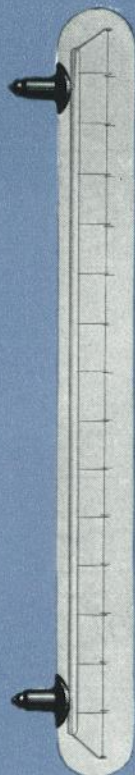
Approx. $\frac{1}{2}$ × actual size



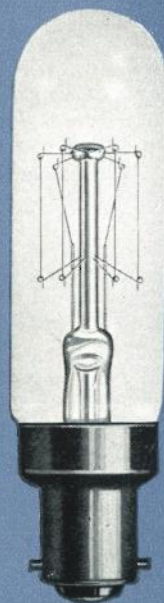
Light Tube
 $\frac{1}{8}$ Circle



Double Cap
Tubular



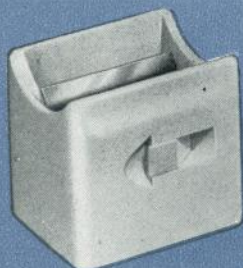
Maxtrip



Single Cap Tubular

LAMP OUTLINES ARE SHOWN IN SECTION 24.

Light Tube Lampholder

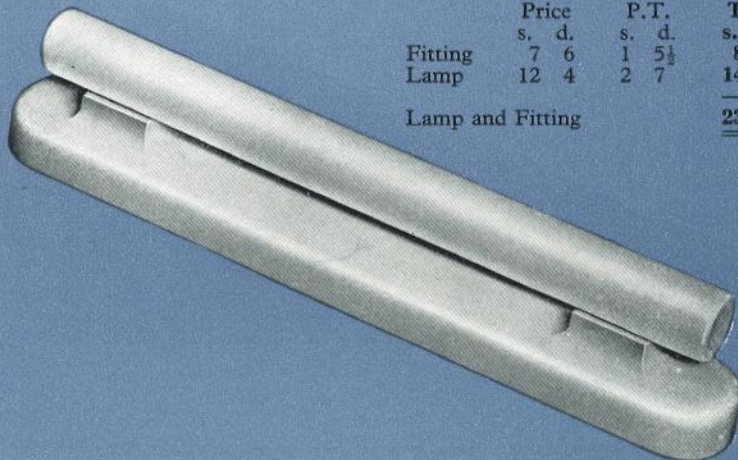


Special lampholders (Cat. No. C85699) are required for Light Tubes; they are of excellent workmanship and form an integral part of the lamp.
List Price 6s. 8d. per pair

Architectural Light Tube Fitting

The popular Light Tube Fitting complete with 12" tube. Finish: Cream or Pastel Green.

	Price	P.T.	Total
	s. d.	s. d.	s. d.
Fitting	7 6	1 5 $\frac{1}{2}$	8 11 $\frac{1}{2}$
Lamp	12 4	2 7	14 11
Lamp and Fitting			<u>23 10$\frac{1}{2}$</u>



Architectural

These lamps provide a bright yet warm light and they are used extensively for decorative purposes in shops and stores—to add charm to bars, aquaria etc., or to provide that necessary extra light for wall mirrors or show cases.

Colour Sprayed

Architectural

Lamps can be supplied in Red, Blue, Green, Yellow, Pink or Amber, 3/- per foot list extra. Maxtrip can be supplied sprayed in standard colours (Section 5) or Opalised, 6d. each List extra.

Tubular

Tubular lamps are useful for picture and showcase lighting where space is limited. They are generally used in conjunction with some suitable form of reflector in order to direct the light onto the object to be illuminated without the filament being visible. Double Cap Tubular lamps are available Frosted, Varnished or Sprayed in Standard Colours (Section 5) at 6d. each List extra.

Architectural									
Watts	Nominal Length in.	Distance between Round-peg Side Caps mm.	Dimensions		List Prices*				
			Length mm.	Diam. mm.	200/210, 220/230 240, 250 volts		110 & 120 volts		
					s.	d.	s.	d.	
Straight Lengths (White Opal)									
35	12	229	305	30	12	4	12	4	
60	20	424	500	30	19	0	19	0	
75	24	534	610	30	22	6	22	6	
110	36	839	915	30	30	0	—	—	
150	48	1144	1220	30	35	0	—	—	
Curves $\frac{1}{8}$, $\frac{1}{4}$ or $\frac{1}{2}$ Circle (White Opal)									
60	20	{ $\frac{1}{8}$ Circle 416 $\frac{1}{4}$ Circle 393 $\frac{1}{2}$ Circle 309 }	500§	30	30	0	30	0	
Maxtrip									
30 60	} 10	200	252	25	{ Clear s. d. 5 9 6 6	{ Clear s. d. 5 9 6 6			

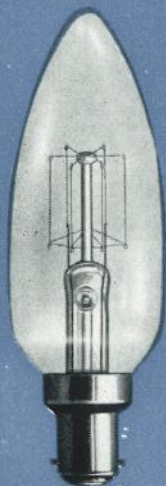
§ Centre—line of curve.

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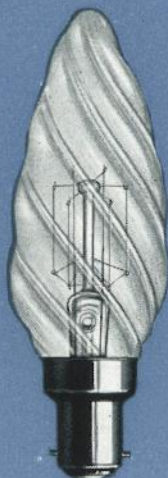
Tubular									
Watts	Cap	Dimensions		Voltages and List Prices*					
		Length mm. ± 3	Diam. mm. ± 1	200/210, 220/230, 240, 250		110, 120		25, 50	
				s.	d.	s.	d.	s.	d.
Single Cap									
15	{ B.C. S.B.C.	51 51	} 25	3	9	3	9	—	
25	{ B.C. S.B.C.	86 92	} 25	3	9	3	9	4	9
Double Cap									
30 60	} Centre Contact	{ 221 or 284 284 (all ± 1 mm.)	25 25	5 6	9 0	5 6	9 0	— —	

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added, see TABLE A on the card insert.

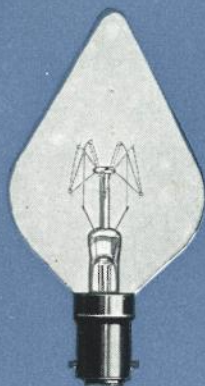
Candle Type



Plain Olive



Twisted Olive



Round Olive



Gothic



Extended Olive



Longlite

Dimensions in millimetres



B.C.
B22/21 × 26
(Round & Extended Olive)



B.C.
B22/25 × 26



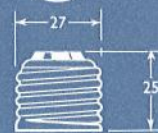
S.B.C.
B15/27 × 22



S.B.C.
BA.15d/17
(Extended Olive)



S.E.S.
E14/27 × 18



E.S.
E27/25

Plain Olive Candle

There are many uses for these attractive lamps including supplementary lighting in foyers, bars and similar places where an intimate atmosphere is envisaged. They are also extensively used in candelabra and in shaded wall-light fittings.

Twisted Olive Candle

These lamps have an apparent twist to the glass bulb and may of course be used in applications similar to those suggested for Plain Olives.

Extended Olive and Longlite

The extended olive has the majority of light emitted from the top but a small amount of light is emitted from the opalized stem. The Longlite emits light along its whole length.

Gothic

These lamps are only supplied sprayed in standard colours; they are suitable for similar applications as those given for Candle Lamps.

Candle Type								
Watts	Cap	Dimensions		Finish	Voltages and List Prices*			
		Length mm.	Diam. mm.		200/210, 220/230, 240, 250		110, 120	
					s.	d.	s.	d.
Plain Olive†								
25	} B.C. S.B.C.	91±4 97±4	35±1 35±1	} Clear Colour Sprayed Frosted	2	6	2	6
					3	0	3	0
					3	0	3	0
40 or 60	} B.C. S.B.C.	131 max. 133 max.	45±1 45±1	} Clear Colour Sprayed Frosted	3	0	3	0
					3	6	3	6
					3	6	3	6
Twisted Olive†								
25	} B.C. S.B.C.	99±5 105±5	35±1 35±1	} Clear Colour Sprayed Frosted	3	0	3	0
					3	6	3	6
					3	6	3	6
40 or 60	} B.C. S.B.C.	148 max. 151 max.	55±1 55±1	} Clear Colour Sprayed Frosted	3	6	3	6
					4	0	4	0
					4	0	4	0
New Round Olive†								
40 or 60	} B.C. S.B.C.	100±3 103±3	55±1 55±1	} Clear Colour Sprayed	3	0	3	0
					3	6	3	6
Extended Olive								
25	} B.C. S.B.C.	210±5 208±5	35±2 35±2	} Clear with Stem Opalized	6	6	6	6
					7	0	7	0
					7	6	7	6
40	} B.C. S.B.C.	240±5 238±5	45±2 45±2		7	0	7	0
					7	6	7	6
60	} B.C. S.B.C.	240±5 238±5	45±2 45±2		7	6	7	6
					7	6	7	6
Longlite								
40 or 60	} B.C.	302±3 (12 in.)	38±1	} Opalized	8	6	8	6
Gothic†								
25 40 60	} B.C. S.B.C. S.E.S. E.S.	108±3 111±3 115±3 108±3	54±1 54±1 54±1 54±1	} Colour Sprayed	3	6	3	6
					4	0	4	0
					4	0	4	0
					4	0	4	0

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† Available colours are White, Red, Blue, Green, Yellow, Flame, Orange, Pink or Amber.

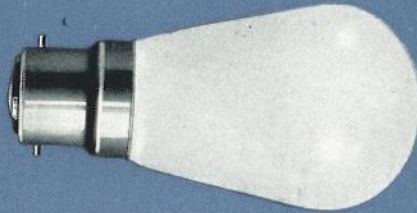
Decorative



Colour Sprayed G.L.S.



28 mm. Sign



44 mm. Sign



Lighting Set
(Parallel Burning)



Star-lites



Elfin lites



Noel lites



Disneylights



Fairy-lights

Decoration Sets

Each set comprises twelve lights ready wired on a flexible cord for immediate use on 200/260-volt supplies, and one spare lamp. A sliding berry-bead device on each lampholder provides a simple and convenient method of fixing to twigs and similar projections. Spare 20-volt Decoration Lamps (clear or coloured with M.E.S. cap) fit any 12-light set.

Disneylights

Gaily coloured lamps with well-known Disney characters on the shades.

Fairy Lights

A string of brightly coloured lights, ideal for festooning public rooms and restaurants as well as private homes. Spare bulbs are available—Red, White, Blue, Amber, Green or Yellow.

Elfin Lites

A charming and colourful decoration set of stars, candles and fairy lights.

Star Lites

Brightly coloured plastic stars with conical, coloured lamps at their centre. Only when these lamps are alight can one appreciate their delightful effect.

Noel Lites

Small coloured figures of Father Christmas, Snow-men, Angels and animals internally illuminated.

Lighting Set

This set has been specially designed for use in bars, hotel foyers, and other applications of a similar nature. It comprises eight 15-watt 230/250-volt, 50-mm. coloured, round bulbs. The bulbs are wired in parallel and up to eight sets can be connected across a common line with safety.

Sign Lamps Clear and Coloured

Watts	Cap	Dimensions		Finish	Voltages and List Prices*						
		Length mm.	Diam. mm.		200/210 220/230 240, 250, 260		110, 120, 130		25, 50, 60		
					s.	d.	s.	d.	s.	d.	
15	B.C.	56	} 28	Clear .. Outside Sprayed .. Inside Sprayed .. Externally Glazed }	1	10	1	10	3	0	(Outside Spr'd only)
	E.S.†	58			2	2½	2	2½	3	4½	
	S.B.C.	62									
	S.E.S.†	64									
15	B.C.	90	} 44	Inside Sprayed or Externally Glazed	2	2½	(110v. only)		—		
	E.S.	92			2	2½	2	2½			

† An additional charge will be made for supplying Coloured lamps with these caps.

Coloured G.L.S. Single Coil

Watts	Cap	Finish	Voltages and List Prices*			
			200, 210, 220, 230, 240, 250, 260		110, 120, 130	
			s.	d.	s.	d.
15 25	} B.C. or E.S.	Outside Sprayed, Inside Sprayed or Externally Glazed	1	11	1	11
40 60 75 100†			} B.C.	Outside Sprayed	1	9
	1	9			1	11
	2	3			2	5
	2	3			2	5

Outside Sprayed in Standard Colours (wholly or partially): White, Red, Blue, Green, Yellow, Flame, Orange, Pink or Amber.

Inside Sprayed (wholly only) : White, Red, Blue, Green, Yellow, Orange.

Externally Glazed (wholly only) : White, Red, Blue, Green, Yellow, Orange.

† Higher wattages are also available.

* **Purchase Tax** must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE A on the card insert.

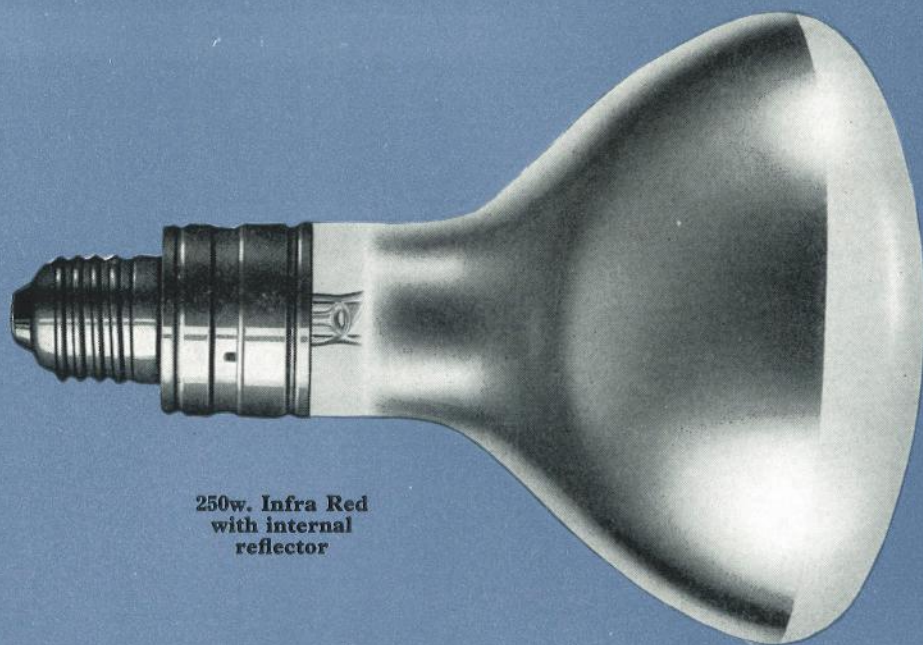
Decoration Sets

Description	Volts	Number of Lamps	List Price			Purchase Tax Extra	
			£	s.	d.	s.	d.
Disneylights	200/260	12	1	5	0	2	7
Fairy Lights			1	16	4	1	8
Elfin Lites			1	10	9	3	2
Star Lites			1	5	0	2	7
Noel Lites			1	17	4	3	10
Spare Lamp (Clear or Coloured 3w. M.E.S.)	20	1	1	0	2½		

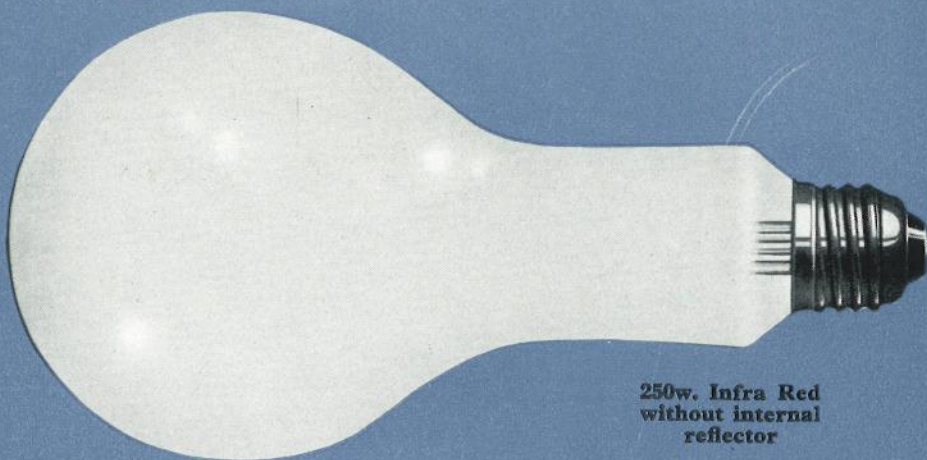
Lighting Set

Description	Volts	Number of Lamps	List Price			Purchase Tax Extra	
			£	s.	d.	s.	d.
Lighting Set	230/250	8	2	0	0	4	0
Spare Lamp (Coloured, 15w. S.E.S. 50 mm.)	230/250	1	2	4		6	

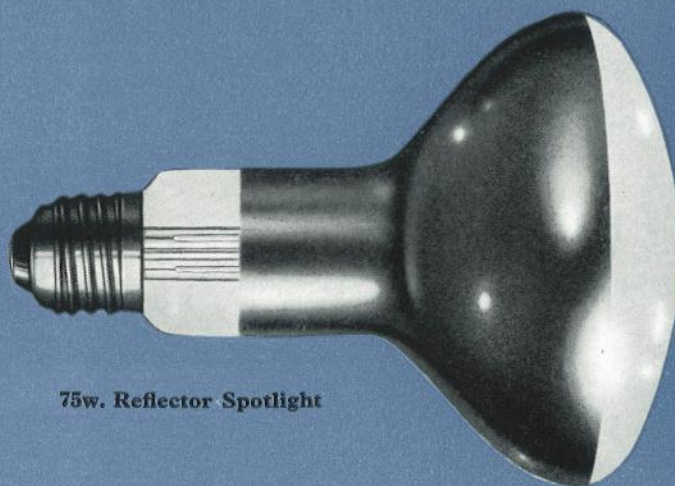
Infra Red and Reflector



250w. Infra Red
with internal
reflector



250w. Infra Red
without internal
reflector



75w. Reflector Spotlight

Infra Red

For many years this form of heating has held its own for industrial stove enamelling or baking of all kinds. A large proportion of manufacturers believe that only by the thorough internal heating that these lamps give, can a first class enamel 'skin' of very good quality be obtained.

The farmer too, has found that Infra Red lamps provide light and adequate warmth to protect the health of his livestock. They are safe to use and require no attention or maintenance.

Radiant heat

This 60-watt lamp is specially designed to use in clinical apparatus employed for heat therapy in hospitals and clinics. (*Not illustrated.*)

Radiator

These lamps are tubular in shape and they are sprayed a warm flame colour. They are suitable for airing cupboards or similar places where both light and heat are required.

Reflector Lamps

These lamps with the 'built-in' reflector have become a necessity in modern shop and shop window lighting, not only because of their usefulness for emphasizing items for display but also because they blend so well with fluorescent or other forms of general lighting. They are also widely used in workshops and display boards and the 75-watt lamp with B.C. cap has many applications in the home.

Infra Red and Radiant Heat					
Watts	Voltages	Cap	Dimensions		List* Price s. d.
			Length mm.	Diameter mm.	
Infra Red Lamps with Internal Reflector Parabolic Bulb					
150 250	{ 100/130 200/250 }	E.S. Cementless	178 ±4	126 ±1.5	{ 12 6 15 6 }
Infra Red Lamps without Internal Reflector Round Bulb					
250	{ 100/130 200/250 }	E.S.	178 ±5.5	90 ±1	7 9†
Infra Red Tubular. Quartz Bulb					
1000	230/250	Special	350 ±5	10 ±1	84 0
Radiant Heat Round Bulb					
60	110, 120, 200/260	B.C. or E.S.	117.5 ±3.5	65 ±1	2 3
Radiator Tubular Bulb. Sprayed Flame. Carbon Filament					
250	110, 120, 200/220, 230/250	B.C.	290 max.	64 ±1	20 0

* Purchase Tax must be added to the prices in these columns unless exemption has been obtained. For the exact amount of purchase tax to be added see TABLE A on the card insert.

† Price is for Clear Bulb. Pearl Bulb—8s. 3d. List.

Reflector Type Tungsten Filament					
Watts	Voltages	Cap	Dimensions		List* Price s. d.
			Length mm.	Diameter mm.	
Spotlight (Concentrated Beam)					
75	{ 110, 200, 210, 220, 230, 240, 250 }	E.S. or B.C.	129 ±3	95 ±1	7 0
100	{ 200, 210, 220, 230, 240, 250 }	E.S. or B.C.	129 ±3	95 ±1	7 0
150	{ 110, 200, 210, 220, 230, 240, 250 }	E.S.	178 ±4	126 ±1.5	10 6
150	{ 24 250 }	E.S.	178 ±4	126 ±1.5	18 6
Floodlight (Dispersed Beam)					
75	{ 110, 200, 210, 220, 230, 240, 250 }	E.S. or B.C.	129 ±3	95 ±1	7 0
100	{ 200, 210, 220, 230, 240, 250 }	E.S. or B.C.	129 ±3	95 ±1	7 0
150	{ 110, 200, 210, 220, 230, 240, 250 }	E.S.	178 ±4	126 ±1.5	10 6
150	{ 24 250 }	E.S.	178 ±4	126 ±1.5	18 6
500	{ 200, 210, 220, 230, 240, 250 }	G.E.S.	312 ±6	165 ±2	42 0‡

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added, see TABLE A on the card insert.

‡ Not subject to Purchase Tax.

Fluorescent & Electric Discharge

The Hot Cathode Tubular Fluorescent Lamp

THE TUBULAR fluorescent lamp consists of a cylindrical glass tube coated on the inside with fluorescent materials (phosphors). An electrode is sealed into each end of the tube and the connections to each electrode are brought out to the lamp cap. The electrode is made of a coil of tungsten wire, coated with a mixture of alkaline earth oxides which freely emits electrons when heated; this coil acts as the cathode. Two small fins are placed on each side of the cathode to act as the anode during the appropriate half cycle. After the tube has been evacuated a drop of mercury is introduced into the tube, also a small quantity of argon gas to help to initiate the arc between the cathodes.

Two methods of starting are in common use, switch start and instant start, both involve the heating of the cathodes.

The operation of starting consists in forcing electrons to pass along the tube from end to end, thereby forming the conducting passage or 'arc' between the cathode and anode.

In the case of switch start circuits, it is necessary to pass a current through the electrodes to heat them and to apply a voltage sufficiently high to cause the arc to strike.

When using the instant start method, however, a special instant start transformer is employed both to heat the electrodes and ensure the correct starting and running conditions for the lamp. It is important that for instant start, conditions for the movement of electrons along the tube are just right. An electrical charge on the lamp may be sufficient to repel electrons and thus prevent starting and it is for this reason that the lamp is either externally 'siliconed' or a metallic stripe is affixed to lamps intended for instant start circuits.

To cater for the various requirements of specific installations there are at present six standard white colours of fluorescent lamps, viz., Daylight, Natural, Warm White, De Luxe Warm White, Colour Matching, and 3500°K. Confusion often arises between colour appearance of light sources and the colour rendering of objects seen under them, and it must be remembered when looking at a lamp that the eye can easily be deceived and apparently similar light sources may give different colour rendering and vice versa. We recommend obtaining the advice of our illuminating engineers as to best colour of lamp to suit individual lighting problems.

Hot and Cold Cathode lamps are essentially the same except that cold cathode lamps are provided with a large unheated cathode, not coated with any emissive material, and starting is effected by the application of a high voltage across the lamp. There is a considerable voltage drop at the cathodes which results in a reduced overall efficiency, compared with the equivalent hot cathode lamp.

Mazda

Lamps stay brighter longer

**FLUORESCENT
ELECTRIC
DISCHARGE**



Sections 7—10



Fluorescent



15w. 1 1/2 ft.



20w. 2 ft.



40w. 2 ft.



30w. 3 ft.



40w. 4 ft.



80w. 5 ft.



125w. 8 ft.

Standard Straight Tubes

For dimensions, see Section 8



4w. 6 in.



6w. 9 in.

Standard Straight Fluorescent Tubes

Our extensive range of fluorescent tubes includes sizes to suit the majority of fluorescent fittings in use today. The choice of colours allows for the correct lamp for the desired application whether it be in industry, in offices, shops etc. or in the home.

Recent additions to the range are the reflector type tubes which have internal coating to give a high percentage of downward illumination and the 50w. 5 ft. tube which is only 1" in diameter, the latter is designed for use with showcase fittings, where a limited depth is available.

Fluorescent lamps are designed to operate on standard supply voltages, using appropriate lamp auxiliary gear.

Cold Cathode Tubes

Space does not permit the complete listing of the extensive range of Cold Cathode Tubes but you may be sure that no matter what particular application you have in mind, your usual supplier will be pleased to help you.

These highly efficient and economical lamps are available in standard straight lengths up to 8' 6" lit length and in standard curves, but our lighting engineers should be consulted if there is any doubt as to the practicability of certain sizes or colours to suit any proposed scheme.

Listed below are a few of the large range of colours from which to choose.

Natural	Ruby Red
Daylight	Cerise
Warm White	Light Green
Colour Matching	Light Blue
Gold	Dark Green
Flame	Dark Blue
Ivory	Sky Blue

Standard Straight Tubes

Watts and Nominal Length	Colours Available	List Prices*									
		MCF/U Ordinary Switch Start		MCFE/U (Silicone) Instant Start		MCFA/U Stripe Instant Start		MCFC/U Stripe Instant Start		MCFR/U Reflector Switch Start	
		s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
4 6"	Warm White, Daylight, Natural, Colour Match'g or Deluxe Warm White	15	0	—	—	—	—	—	—	—	—
6 9"		11	6	—	—	—	—	—	—	—	—
15 18"	Warm White Daylight Natural Colour Matching Deluxe Warm White 3500°K White	9	9	10	3	10	9	—	—	—	—
20 2 ft.		10	6	11	0	11	6	—	—	—	—
30 3 ft.		11	0	11	6	12	0	—	—	—	—
40 2 ft.		11	0	11	6	12	0	—	—	—	—
40 4 ft.		11	9	12	3	12	9	—	—	—	—
80 5 ft.	13	0	13	6	14	0	—	—	—	—	
80 5 ft.	Red, Blue, Green or Yellow	17	6	18	0	18	6	—	—	—	—
40 4 ft.	Daylight	—	—	—	—	—	—	—	—	13	9
80 5 ft.	Warm White, Daylight, or Deluxe Warm White	—	—	—	—	—	—	—	—	14	9
50 5 ft.	Natural	17	3	17	9	18	3	—	—	—	—
125 8 ft.	Warm White, Natural, or 3500°K White	—	—	—	—	—	—	25	0 [¶]	—	—

* Purchase Tax must be added to all lamps listed above except the 125w. 8 ft. lamp marked thus ¶. For the exact amount of purchase tax to be added see TABLE A on the card insert. Note: The price of the 125w. lamp includes for either Switch or Instant Start as the control gear governs the starting characteristics.

NOTE: The lamp coding letters indicate the following:—

MCF/U = Standard tube requiring separate starter switch.

MCFE/U = Instant Start with external water repellent Silicone coating and not requiring separate starter switch.

MCFA/U = Instant start with external stripe connected to both caps, at fitting potential.

MCFC/U = Stripe as MCFA/U but not connected to caps; not at earth or fitting potential.

MCFR/U = Standard starter switch type tube but containing a highly reflecting powder coating between the fluorescent powder and the glass tube. The coating is applied to 60% of the circumference of the tube.

For appropriate control gear for use with fluorescent tubes see sections 26 and 27.



15w. 1½ ft. U.V.



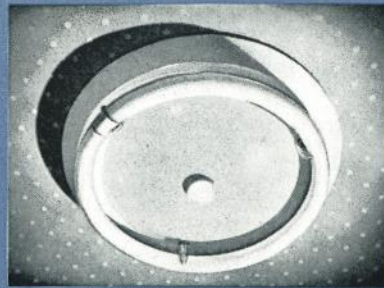
20w. 2 ft. U.V.



40w. 2 ft. U.V.



80w. 5 ft. U.V.



F 1003 with Fluorescent Circle



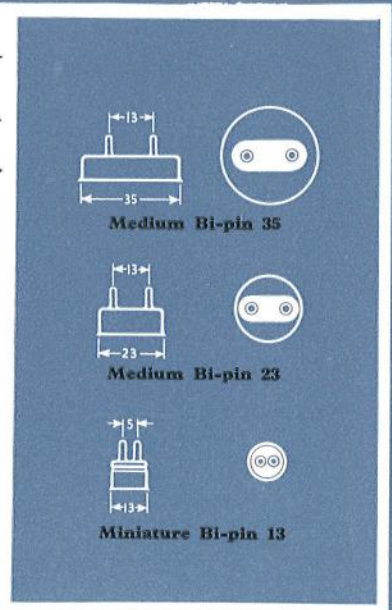
4w. 6 in. U.V.



6w. 9 in. U.V.

Caps and dimensions of Fluorescent and Fluorescent/U.V. Tubes

Watts	Nominal Length	Cap	Dimensions			
			Maximum Overall Length		Diameter	
			in.	mm.	in.	mm.
4	6 in.	Miniature Bi-pin 13	$5\frac{29}{32}$	150	$\frac{1}{2}$	14
6	9 in.	” ” ”	$8\frac{29}{32}$	226	$\frac{1}{2}$	14
15	1½ ft.	Medium Bi-pin 23	$17\frac{25}{32}$	452	1	26
20	2 ft.	” ” 35	$23\frac{25}{32}$	604	$1\frac{1}{2}$	38
30	3 ft.	” ” 23	$35\frac{25}{32}$	909	1	26
40	2 ft.	” ” 35	$23\frac{25}{32}$	604	$1\frac{1}{2}$	38
40	4 ft.	” ” 35	$47\frac{25}{32}$	1214	$1\frac{1}{2}$	38
50	5 ft.	” ” 23	$59\frac{5}{8}$	1514	1	26
80	5 ft.	B.C. (B22/25 × 26)	$60\frac{1}{4}$	1530	$1\frac{1}{2}$	38
125	8 ft.	” ” ”	$96\frac{1}{4}$	2445	$1\frac{1}{2}$	38



Fluorescent Circle

The illustration shows the 40w. fluorescent circle mounted in the popular Mazda Circular fitting F 1003/1/40. The fitting is of spun sheet steel 'bonderized' and finished white stoved enamel.

It costs £8 : 1s. : 0d. complete with gear but less lamp.

Ultra Violet Tubes

These tubes emit a large proportion of energy as invisible U.V. radiation in the 3650Å band. They can be used for the excitation of fluorescent materials and paints thus having various applications such as the examination of documents, laundry marks, stains and many laboratory uses. They can be used for advertising purposes or instrument panel excitation as is used in some aircraft today.

The MCFW/U lamps are black in appearance because they have a 'Wood's Glass' envelope which absorbs most of the visible light.

In the case of the MCF/U-Ultra-Violet tubes, they are white in appearance because no filter is incorporated in the glass envelope; an external 'Wood's Glass' must be used if visible light is not required.

Tungsten Ballast Lamps

(Not illustrated)

For use with 40w. 4-ft. Fluorescent Lamps Type MCFA/U (Sec. 7).

Experience has revealed a need, in certain instances, for mixed fluorescent and tungsten lighting. One way of meeting this demand is to utilize a fluorescent lamp circuit in which the conventional choke is replaced by a special tungsten ballast lamp which not only serves to regulate the current but also emits useful light.

Fluorescent Circle Silicone-coated

Lamp Watts	Colour	Dimensions in mm.		List Price* (Lamp only)	
		Outside Diameter of Circle	Outside Diameter of Tube	s.	d.
40	Deluxe Warm White	403±8	32±2	45	0

* Purchase Tax must be added to the price of this lamp. For the exact amount of purchase tax to be added see TABLE A on the card insert.

Ultra Violet Tubes

Watts	Nominal Length	Type	List Prices*					
			MCF/U-Ultra-Violet (Non-filter envelope)			MCFW/U (Black envelope)		
			£	s.	d.	£	s.	d.
4	6 in.	U.V. 3650Å	—			1	18	0
6	9 in.		—			2	10	0
15	1½ ft.		15	9	—			
40	2 ft.		17	0	—			
40	4 ft.		17	9	—			
80	5 ft.		19	0	—			

* Purchase Tax see note below.

MCF/U— Ultra-Violet tubes are made with a non-filter glass envelope and emit a certain amount of visible light: this can be absorbed by the use of an external 'Wood's Glass' filter.

MCFW/U are made with a 'Wood's Glass' envelope which filters out practically all the visible light.

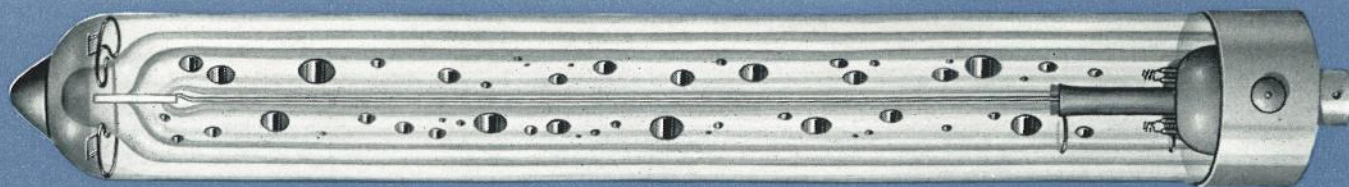
Tungsten Ballast Pearl Single Coil

Mains Volts	Lamp Rating		Dimensions		Cap	List* Price s. d.
	Volts	Watts	Length mm.	Diam. mm.		
200/210	115	50	117.5	65	3-pin B.C.	2 6
220/230	140	60				
240	151	65				
250	162	70				

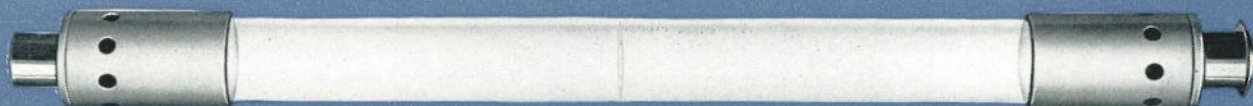
* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE A on the card insert.

For appropriate control gear for use with fluorescent tubes see Sections 26 and 27.

Sodium and Mercury



140w. Sodium Vapour SO/H



1000w. Mercury Vapour
MA/H



400w. Mercury Vapour MA/V, MA/U or MA/H



80w. Mercury Vapour
MB/U



125w. Mercury Vapour
MBW/U

Sodium Vapour

These lamps have been highly praised for streetlighting and certain industrial applications both for their high light output and economy. To ensure complete protection and steady ambient temperature of the inner sodium tube, the latest improvements to the clear glass vacuum jacket include a protective metal cap covering the glass tip, a firm centring device and many other modifications. Our technicians are constantly seeking new ways to improve lamp life and efficiency.

Mercury Vapour

For streetlighting and many kinds of industrial lighting, the high lumen/watt ratio of these lamps has made them a necessity where economical operation and high light output are the most important considerations.

The MA type have refinements of construction which put them in a class alone. They have Double Helix Electrodes where each electrode is designed to protect its emissive pellet; the mercury filling is micrometer controlled to ensure life and light output and the recent introduction of a new arc tube mount obviates point suspension and gives greatly increased resistance to external vibration.

Black Glass—Type MBW/U

The special glass of this Ultra Violet Filter lamp absorbs practically all visible light but allows free passage to U.V. radiation at the 3650Å wavelength. The lamp can be used for excitation of fluorescent materials and has many applications in various scientific and industrial processes.

Sodium Vapour SO/H								
Watts	A.C. Voltages	Cap B.C. Ceramic	Dimensions			List Price†		
			Length mm.	Diam. mm.	L.C.L. mm.	Inner Only s. d.		Complete with clear outer jacket s. d.
45	100/250	B22 (Small)	238	50	140	40	0	61 9
60			300	50	170	45	0	69 6
85			415	50	230	60	0	89 3
140			518	65	280	65	0	98 0
		B22 (Medium)						

† Purchase Tax not chargeable.

Mercury Vapour								
Watts	A.C. Voltages	Cap	Dimensions			List Price		
			Length mm.	Diam. mm.	L.C.L. mm.	s.	d.	
MA/V (Tubular Bulb, Burning position Vertical unless arc controlled)								
250	100, 110, 120, 130, 200/220, 230/240, 250	G.E.S. (E40/45)	290	51 max.	170	54	0	
400			330	51 max.	190	59	0	
MA/U (Tubular Bulb)								
250	200/220, 230/240, 250	G.E.S. (E40/45)	290	51 max.	170	57	6§	
400			330	51 max.	190	62	6§	
MA/H (Tubular Bulb)								
250	200/220, 230/240, 250	G.E.S. (E40/45)	290	51 max.	170	64	6	
400			330	51 max.	190	71	0	
1000			476±3	40 max.	—	110	0	
MB/U (Round Bulb, Pearl finish)								
80	200/220, 230/240, 250	3-pin B.C. (B22/31 × 30) or (B22/25 × 26)	160	80	113	39	6	
125			178	90	128	45	0	
MBW/U (Round Bulb, Ultra Violet Filter—Black Glass)								
125	200/220, 230/240, 250	3-pin B.C. (B22/31 × 30) or (B22/25 × 26)	178	90	128	63	0	

† Purchase Tax not chargeable.

§ These prices are for soft glass envelopes. Hard glass envelopes are also available and the lamp list prices are 250w. 69/- and 400w. 75/-.

NOTE: The lamp coding letters indicate the following:

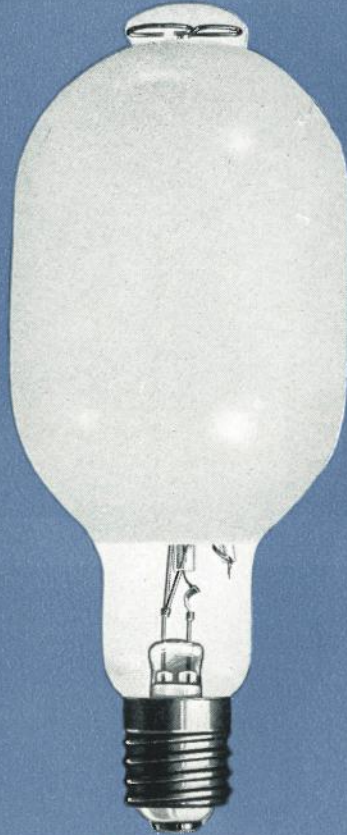
- | | |
|---|--------------------------|
| M = Main Voltage Mercury Discharge. | /H = Horizontal Burning. |
| A = Glass Envelope loaded above 10 watts/cm. of arc length. | /U = Any Position. |
| B = Quartz Envelope loaded below 100 watts/cm. | /V = Vertical Cap up. |
| E = Quartz Envelope loaded above 100 watts/cm. | /D = Vertical Cap down. |
| F = Internal Fluorescent Coating. | |
| W = Black Glass—Visible Light absorbing, and cuts off short wave U/V radiation. | |

Electric Discharge Lamps are designed to operate on standard supply voltages using appropriate lamp auxiliary gear. See sections 26 and 27.

Mercury



200w. MBT/U

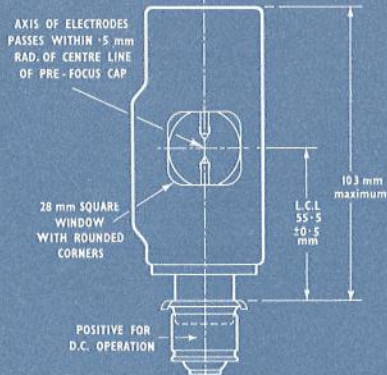
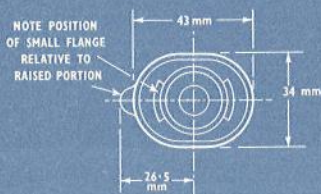


400w. MBF/U



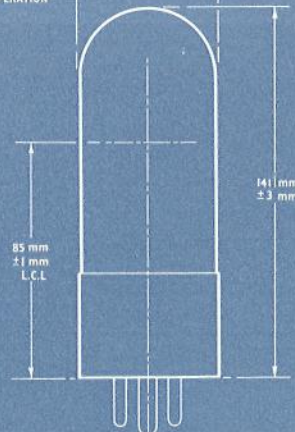
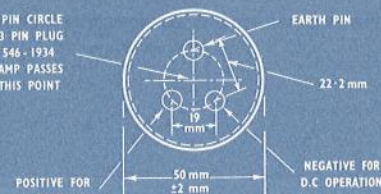
400w. MAF/V

ME/D Compact Source Lamps

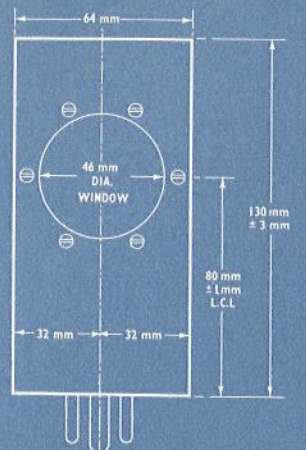
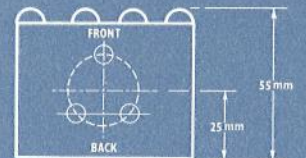


Box, P28/25 Cap

CENTRE OF PIN CIRCLE OF 5 AMP 3-PIN PLUG TO B.S.S. 546-1934. AXIS OF LAMP PASSES THROUGH THIS POINT



Glass, 3-pin Cap



Box, 3-pin Cap

Mercury Vapour/Fluorescent

The light from the ordinary mercury discharge lamp, because of the small emission of red light, has a distorting effect upon certain colours. It is impossible for instance, to distinguish between reds and various shades of brown. The mercury vapour lamp with fluorescent bulb has been developed to meet requirements where a good degree of colour rendering is important, and further lamp development by our engineers has brought about even better colour rendering.

Mercury Vapour/Tungsten

By using the tungsten filament to limit the current as well as to emit light, a lamp has been developed to provide high output and good colour rendering properties without need for additional lamp auxiliary gear.

Mercury Vapour Compact Source

These lamps are used extensively in projection microscopes, film printers, gear profile projectors and similar instruments. They have a very bright, steady and concentrated source of light and they are superior to any other form of lighting for many kinds of projection work.

Mercury Vapour/Fluorescent							
Watts	A.C. Voltages	Cap	Dimensions			List† Price	
			Length mm.	Diam. mm.	Neck Diam. mm.	s.	d.
MAF/V Iso-thermal Bulb							
400	200/220, 230/240, 250	G.E.S. (E40/45)	335	165	52 max	81	6
MBF/U (Round Bulb)							
80	200/220, 230/240, 250	3-pin B.C. (B22/31 × 30) or B22/25 × 26	160	80	39	48	6
125			190 178	90 90	39 39		
250‡ 400‡								220 ± 7 280 ± 6	89 ± 1.5 115 ± 2	51 max 51 max
		G.E.S. (E40/45)				99	0
						130	0

† Purchase Tax not chargeable.
‡ Tubular Bulb see illustration.

Mercury Vapour/Tungsten							
Watts	A.C. Voltages	Cap	Dimensions			List† Price	
			Length mm.	Diam. mm.	L.C.L. mm.	s.	d.
MBT/U‡ (Pearl Round Bulb, Combined Tungsten and Mercury Vapour)							
200	200, 210, 220, 230, 240, 250	E.S. (E27/25) or B.C. (B22/25 × 26)	178	90	D125 F133	50	0
MAT/V (Tubular Bulb, Combined Tungsten and Mercury Vapour)							
300	200, 210, 220, 230, 240, 250	G.E.S. (E40/45)	285 ± 15	D50 ± 1 F85 ± 1	max. D160 F255	60	0
500			355 ± 20	D60 ± 1 F100 ± 1	D202 F325	70	0

† Purchase Tax not chargeable.
‡ Inside Silica-coated Lamps are also available, 9d. List Extra.
D—Discharge Portion, F—Filament Portion.

Mercury Vapour/Compact Source								
Watts	A.C. or D.C. Voltages	Description	Cap	Dimensions			List† Price	
				Length mm.	Diameter mm.	L.C.L. mm.	s.	d.
ME/D (Concentrated Light Source, Mercury Vapour)								
250	200/250	Glass Envelope Box Type Box Type	3-pin P28/25 3-pin	141 ± 3a	50 ± 2	85 ± 1	310	0
250				103 max.c	43 × 34b	55.5 × 0.5		
250				130 ± 3a	64 × 55	80 ± 1		

† Purchase Tax not chargeable.
(a) Excluding Pins. (b) With a 5.0 mm. projection on the major axis opposite the L.C.L.
(c) From cap flange to end of 'case'.

NOTE: The lamp coding letters indicate the following:

- M = Mains Voltage Mercury Discharge.
- A = Glass Envelope loaded above 10 watts/cm. of arc length.
- B = Quartz Envelope loaded below 100 watts/cm. of arc length.
- E = Quartz Envelope loaded above 100 watts/cm. of arc length.
- F = Internal Fluorescent Coating.
- W = Black Glass—Visible Light absorbing, and cuts off short wave U/V radiation.
- /H = Horizontal Burning.
- /U = Any Position.
- /V = Vertical cap up.
- /D = Vertical cap down.

Electric Discharge Lamps are designed to operate on standard supply voltages using appropriate lamp auxiliary gear. This does not apply to MBT/U or MAT/V lamps. See Sections 26 and 27.

Projector & Photographic

TO PRODUCE flawless definition on the screen, the modern cine projector requires a first class, precision-built lamp. The slightest inaccuracy of filament construction or assembly will result in distortions which cannot be corrected.

This organization has had many years' experience of the manufacture of projector lamps and are able to ensure that only tried and tested methods and materials are used in their production. Our lamps conform in every way to the high standards associated with all our products; with our lamp in your projector you may be sure of the best possible results since the lamp has been built and prefocused to the most exacting standards.

The lamps on the following pages are for use not only with cine projectors but many kinds of lighting apparatus where the light source is either reflected in a beam or through lenses.

Class A. Lamps used for 'still' projectors or cine, visual aid etc.

Class B. These are used in floodlights for stage lighting and similar applications.

Class E. For use in episcopes or epidiascopes for which they have been especially designed.

Class F. Low wattage lamps specially designed for micro-projection purposes.

Class G. Low voltage lamps designed for sound reproduction.

Photographic

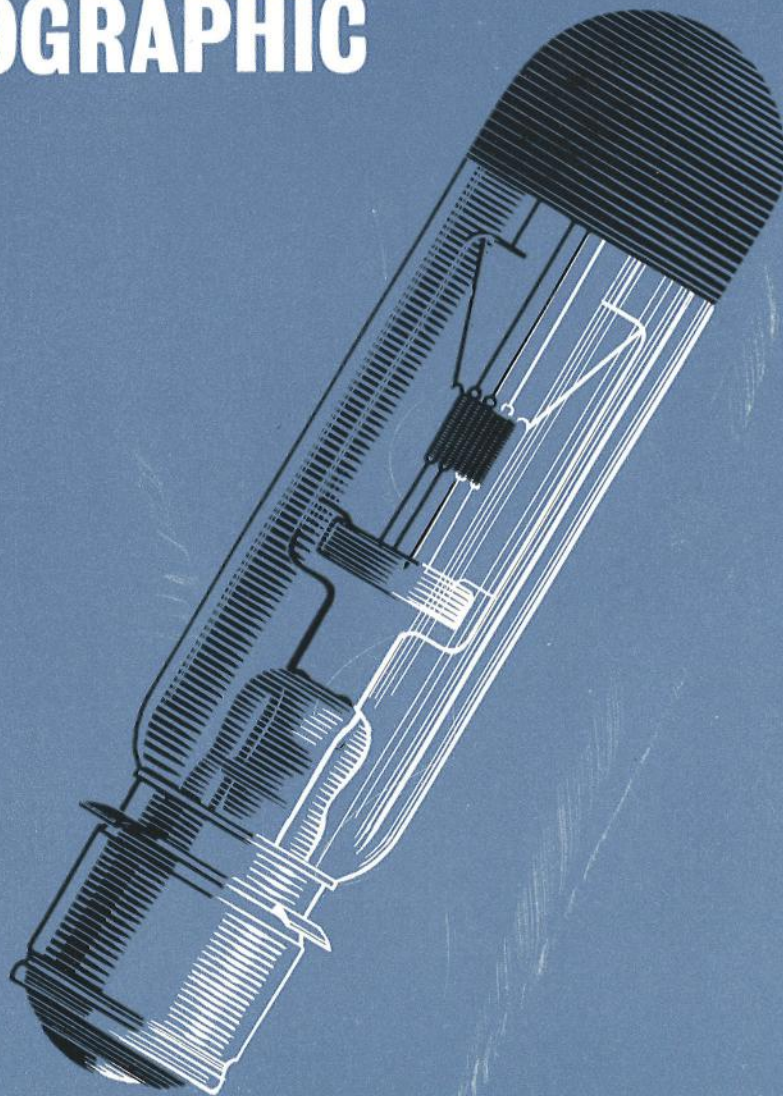
Filament Lamps. In section 14 are listed lamps for every need whether it be for enlarger flood photography or for studio work.

Xenon Electronic Flash Tubes. These tubes belong to the field of electronic flash photography. Each tube has a life of several thousand flashes fired from a power-pack and each flash lasts for about 1/5000th of a second.

Mazda

Lamps stay brighter longer

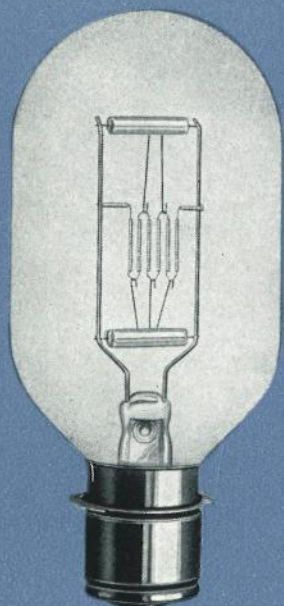
PROJECTOR & PHOTOGRAPHIC



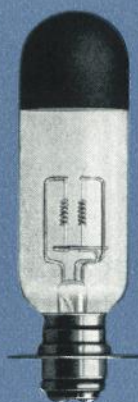
Sections 11—16



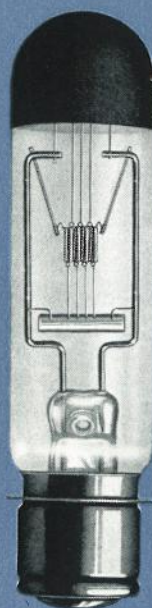
Projector Glass A1



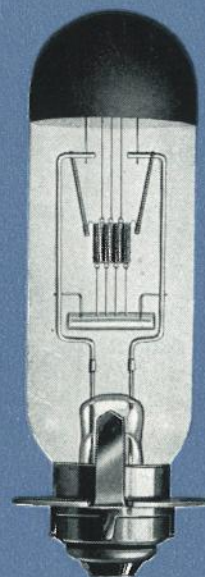
A1/8
500w. 110v.
(64 mm. dia. bulb)



A1/127
200w. 115v.
(25 mm. dia. bulb)



A1/7
500w. 115v.
(32 mm. dia. bulb)

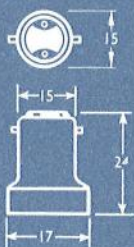


A1/53
750w. 110v.
(38 mm. dia. bulb)

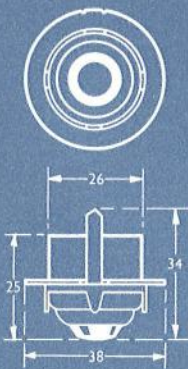
Dimensions in millimetres



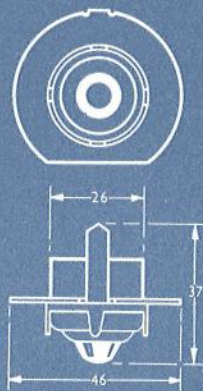
S.C.C.
BA.15s/21



S.B.C.
B15d/24 x 17



B & H
S26s/25 BH38



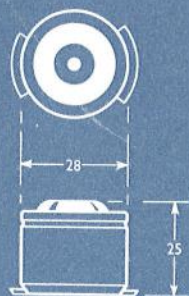
B & H
S26s/25 BH46



3-fin ring



Pathe 'T' piece



Prefocus
P28/25



Prefocus
P15/19

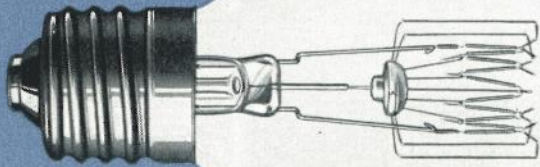


Med. Bi-post



Bi-post

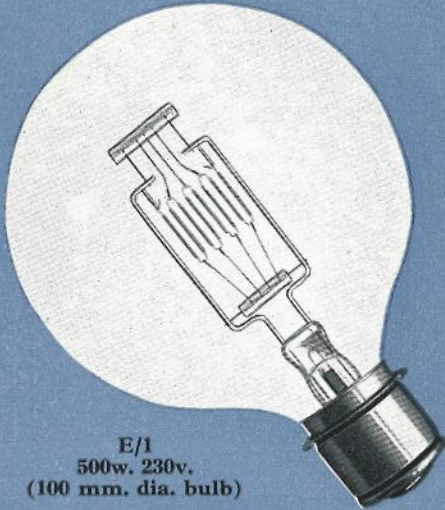
**Projector Class A3, B1,
E and F, Lamps**



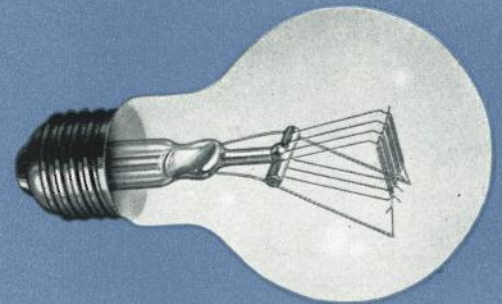
B1/3
500w. 230v.
(130 mm. dia. bulb)



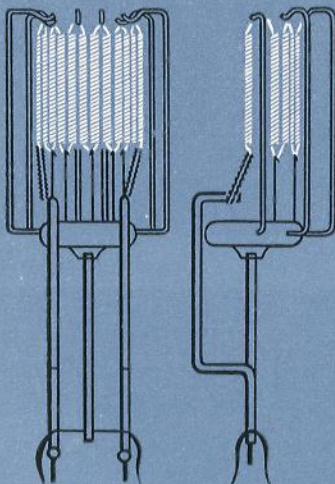
F/14
100w. 12v.
(60 mm. dia. bulb)



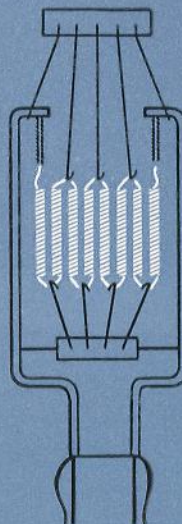
E/1
500w. 230v.
(100 mm. dia. bulb)



A3/1
100w. 230v.
70 mm. dia. bulb)



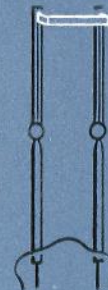
Side View
Bunch Filament



8-section Grid



Grid (A3)



Ribbon Filament
Transverse



Transverse
Coiled Coil

Class A 3

These lamps are used extensively for various stage lighting purposes in theatres and cinemas, and have also a wide application in photographic and film studios. They have many uses where a medium lamp life and light output is required. They are intended for burning in a horizontal position, but slight variations of burning angle will not affect the life.

Class B 1

These lamps are particularly suitable for use with parabolic mirrors and they are employed generally for stage and theatre lighting and the floodlighting of tall buildings or hoardings, etc. They have concentrated bunch filaments of small area and a comparatively long life.

Class B 2

For similar applications applying to B 1 lamps, B 2 have a longer L.C.L. and can be burned in any position.

Class E, Epidiascope

Episcope and epidiascope apparatus for the projection and magnification of small objects, lantern slides etc., all use this type of lamp. They are also suitable for spotlight and shop window projectors which have to be rotated through wide angles.

Class F, Micro-projection

Class F lamps have been specially designed to the requirements of micro-projection. Being of low voltage, they can be conveniently operated from batteries or from the mains through a suitable resistance or transformer. Microscope illumination, small home cine projectors, sound recording are but a few of the many purposes for which these lamps may be used.

Class A3, B1, B2 and E

Lamp Ref. No.	Watts	Voltages	Cap	Dimensions			Objective Life Hours	List Price	
				Length mm.	Diam. mm.	L.C.L. mm.		s.	d.
A3 (Burning position, Horizontal)									
A3/1	100	110, 200, 210, 220, 230, 240, 250	E.S.	115±10	70±2	95±5	300	14	3*
A3/2	250			160±10	90±2	120±5	300	26	6*
B1 (Burning position any, except within 45° of cap up)									
B1/1	100	115, 200, 210, 220, 230, 240, 250	E.S.	115±10	80±2	75±5	800	12	0*
B1/2	250		E.S.	125±10	95±2	75±5	800	23	3*
B1/3	500		G.E.S.	180±10	130±5	115±5	800	30	6
B1/4	1000		G.E.S.	180±10	130±5	115±5	800	39	9
B2 (Burning position—any)									
B2/1	500	115, 200, 210, 220, 230, 240, 250	G.E.S.	267±8	130±5	202±7	800	30	6
B2/2	1000		G.E.S.	300±9	150±5	225±8	800	39	9
E (Burning position any, within 45° of cap down)									
E/1	500	115, 200, 210, 220, 230, 240, 250	Prefocus	135±10	100±5	60±0.5	100	37	6
E/3	500		E.S.	135±10	100±5	85±5	100	36	6

*Purchase Tax must be added to the prices of these lamps only. For the exact amount of purchase tax to be added see TABLE A on the card insert.

Class F

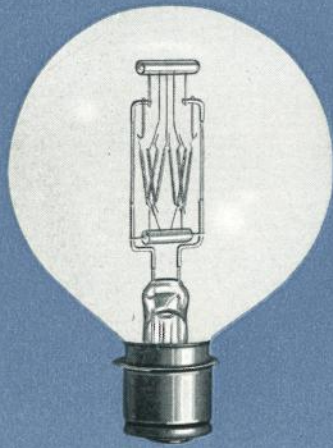
Lamp Ref. No.	Watts	Voltages	Objective Life Hours	Cap	Dimensions			Special Features	List* Price	
					Length mm.	Diam. mm.	L.C.L. mm.		s.	d.
F/30	8	4	100	S.E.S.	62±5	35±2	52±5	—	6	0
F/5	9	18	100	M.E.S.	36±3	18±1	25±2	—	3	3
F/8	12	12	100	S.B.C.	57±5	37 max.	40±3	—	5	6
F/29	18	6	100§	S.B.C.	46±2.5	25±1	28.5±1.5	—	8	0
F/24	24	6	100	E.S.	57±5	38±2	47±5	—	5	0
F/10	24	6 or 12	100	S.E.S.	60±5	38±2	50±5	—	5	0
F/3	24	12	100	S.B.C.	60±5	38±2	44±5	—	5	0
F/11	24	12	100	S.E.S.	60±5	38±2	41±3	—	5	0
F/25	30	6	25	E.S.	63±5	35±2	53±5	—	8	0
F/1	30	6	25	S.E.S.	57±5	35±2	47±5	—	8	0
F/41	30	6	25	S.B.C.	58±5	35±2	40±5	—	8	0
F/54	30	6	100	S.C.C.	60±5	38±2	53±5	Solid Source	8	0
F/55	30	6	100	S.E.S.	60±5	38±2	53±5	Solid Source	8	0
F/56	30	6	100	E.S.	65±5	38±2	56±5	Solid Source	8	0
F/2	48	6	100	S.B.C.	60±5	35±2	40±3	—	10	0
F/52	48	6	100	S.E.S.	62±3	35±2	49±2	—	10	0
F/7	48	8	100	S.E.S.	60±5	40±3	41±3	—	10	0
F/4	48	12	100	S.E.S.	70±5	50±2	40±3	—	7	3
F/13	48	12	100	E.S.	70±5	50±2	38±5	—	7	3
F/42	48	12	100	Prefocus	75±5	50±2	18.5±0.5	—	7	3
F/38	48	12	100	S.B.C.	60±5	38±2	40±3	—	7	3
F/57	48	6	100	S.C.C.	60±5	38±2	53±5	Solid Source	10	0
F/58	48	6	100	S.E.S.	60±5	38±2	53±5	Solid Source	10	0
F/59	48	6	100	E.S.	60±5	38±2	53±5	Solid Source	10	0
F/9	48	8	100	S.E.S.	64±4	39.5±2	45±2	—	10	0
F/27	72	6	50	E.S.	128±7	32±1	75±3	—	14	3
F/14	100	12	100	E.S.	85±5	60±2	55±5	—	16	0
F/15	108	6	50	Prefocus	139±7	32±2	65±0.5	Ribbon Fil. Ax.	41	0
F/16	108	6	50	E.S.	135±4	32±2	86±3	Ribbon Fil. Ax.	40	0
F/46	108	6	50	Prefocus	139±7	32±2	65±0.5	Ribbon Fil. Hor.	41	0
F/47	108	6	50	E.S.	135±4	32±2	86±3	Ribbon Fil. Hor.	40	0

NOTE: If ordering by Lamp Reference Number please be sure to state voltage required.

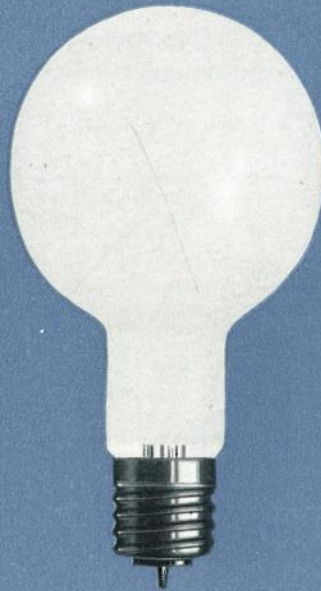
*Purchase Tax must be added to the prices of these lamps. For the exact amount of purchase tax to be added see TABLE A on the card insert.

§ At 6.5 volts.

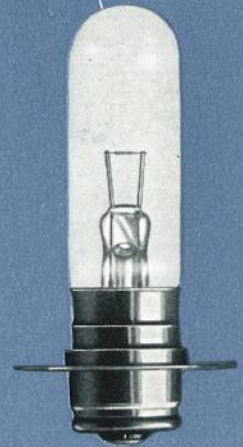
Projector Class G and High Wattage Lamps



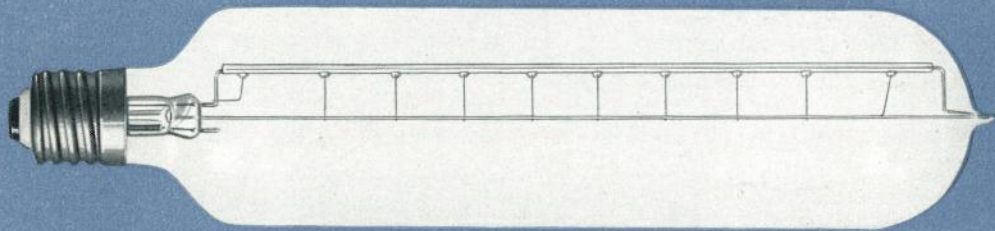
1000w. 230v.
Theatre Spotlight



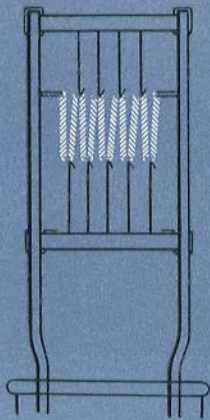
100/150w. 12/250v.
Hospital Operating Theatre



Class G Exciter
0.75 amp. 4v. G/29



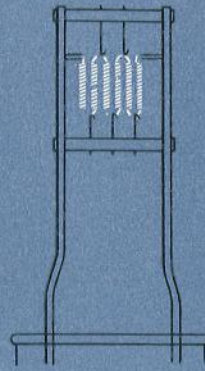
500w. 250v. Tubular Floodlight



10-section Grid



Axial Coil



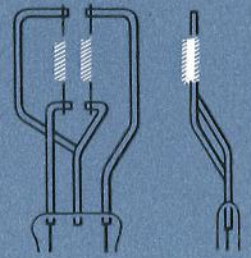
6-section Grid



Bi-plane



Transverse
Coil



Twin Coiled Coil Side view
(Offset)

Class G, Exciter

For reproduction in sound film apparatus a low voltage lamp of high efficiency and robust construction is necessary. The Class G lamps listed here are ideal for this class of work and are manufactured with extreme accuracy and careful attention to such details as the centring of the filament and its luminous intensity so as to comply with the rigid requirements of sound film projection.

Theatre Spotlight

These lamps have a Grid filament of staggered construction. They are used particularly for spotlights in theatres or cinemas but they can be used for similar applications where a suitable reflector and housing will make full use of the compact, bright light source.

Tubular Floodlight

There are many instances where a wide-angle flood beam is required, such as in film studios where the Tubular Floodlight is used in conjunction with a trough reflector to give a fan shaped beam.

Hospital Operating Theatre

This double filament lamp has been designed for use in the operating theatre where mains supply faults must not interfere with the surgeon's work; the auxiliary filament gives 100-watt output on a 12-volt emergency supply.

Class G Must not be burned cap up

Lamp Ref. No.	Amps.	Voltages	Cap	Dimensions			Objective Life Hours	List Price † s. d.
				Length mm.	Diam. mm.	L.C.L. mm.		
G/18	0.2	7	Prefocus S.C.C.	57±3	16±1	28.5±0.5	100	7 3
G/31	0.75	4	Prefocus S.B.C.	48±3	25±1	28.5±0.5	50	8 6
G/27	0.75	4 (Axial Fil.)	Prefocus S.C.C.	57±3	16±1	28.5±0.5	50	7 3
G/19	0.75	4	S.C.C.	48±3	15±1	31.75±0.75	50	7 3
G/29	0.75	4 (Trans. Fil.)	Prefocus S.C.C.	57±3	16±1	28.5±0.5	50	8 6
G/ 4	1.0	6 (EL No. 9)	S.C.C.	40±2	18±1	21.5±0.5	100	7 3
G/ 5	1.0	6	Prefocus S.C.C.	57±3	16±1	28.5±0.5	100	7 3
G/16	1.0	27 (EL No. 8)	S.C.C.	75±3	25±1	41±1	100	11 0
G/ 6	2.0	8 (EL No. 3)	S.C.C.	75±3	25±1	44±1	100	7 3
G/37	2.0	8	Prefocus S.C.C.	75±3	25±1	37.3±0.5	100	8 6
G/ 8	4.0	8 (EL No. 1)	S.C.C.	75±3	25±1	44±1	100	7 3
G/ 7	4.0	8	Prefocus S.C.C.	75±3	25±1	37.3±0.5	100	8 6
G/36	5.0	6	{ S.C.C. Pathe Collar }	52±2	18±1	27±0.5	100	10 3
G/11	5.0	10 (EL No. 4)	S.C.C.	75±3	25±1	41±1	100	9 9
G/10	5.0	10	Prefocus S.C.C.	75±3	25±1	37.3±0.5	100	11 0
G/12	5.0	10 (EL No. 5)	S.C.C.	75±3	25±1	44±1	100	9 9
G/ 3	6.0	4	S.C.C.	60 max.	18±1	30±0.5	100	8 0
G/22	6.0	4	S.C.C.	49±3	25±1	31.5±1	100	8 0
G/23	6.5	5	Prefocus S.C.C.	75±3	25±1	41±0.5	50	9 9
G/14	7.5	10 (EL No. 6)	S.C.C.	75±3	25±1	41±1	100	9 9
G/13	7.5	10	Prefocus S.C.C.	75±3	25±1	37.3±0.5	100	11 0
G/15	7.5	10 (EL No. 7)	S.C.C.	75±3	25±1	44±1	100	9 9
G/32	7.8	10.5 .. .	Prefocus S.C.C.	75±3	25±1	37.3±0.5	25	13 3

† Purchase Tax not chargeable.

Theatre Spotlight Class T

Lamp Ref. No.	Watts	Voltages	Cap	Dimensions			Objective Life Hours	List Price † s. d.
				Length mm.	Diameter mm.	L.C.L. mm.		
T/3	250	210, 230, 240, 250	Prefocus	119±5	76±2	55.5±0.5	200	24 6
T/1	500	{ 115, 120, 230, 240, 250 }	Prefocus	130±10	95±5	55.5±0.5	200	33 9
T/2	1000	210, 230, 240, 250	Mogul Prefocus	190±10	130±5	84±0.5	200	42 9

† Purchase Tax not chargeable.

Tubular Floodlight Class FL

Lamp Ref. No.	Watts	Voltages	Cap	Dimensions		Objective Life Hours	List Price † s. d.
				Length mm.	Diameter mm.		
FL/1	500	115	G.E.S.	355±10	90±2	1000	46 3
FL/2	1000	200-10-20-30-40-250		390±10	90±2	1000	59 6

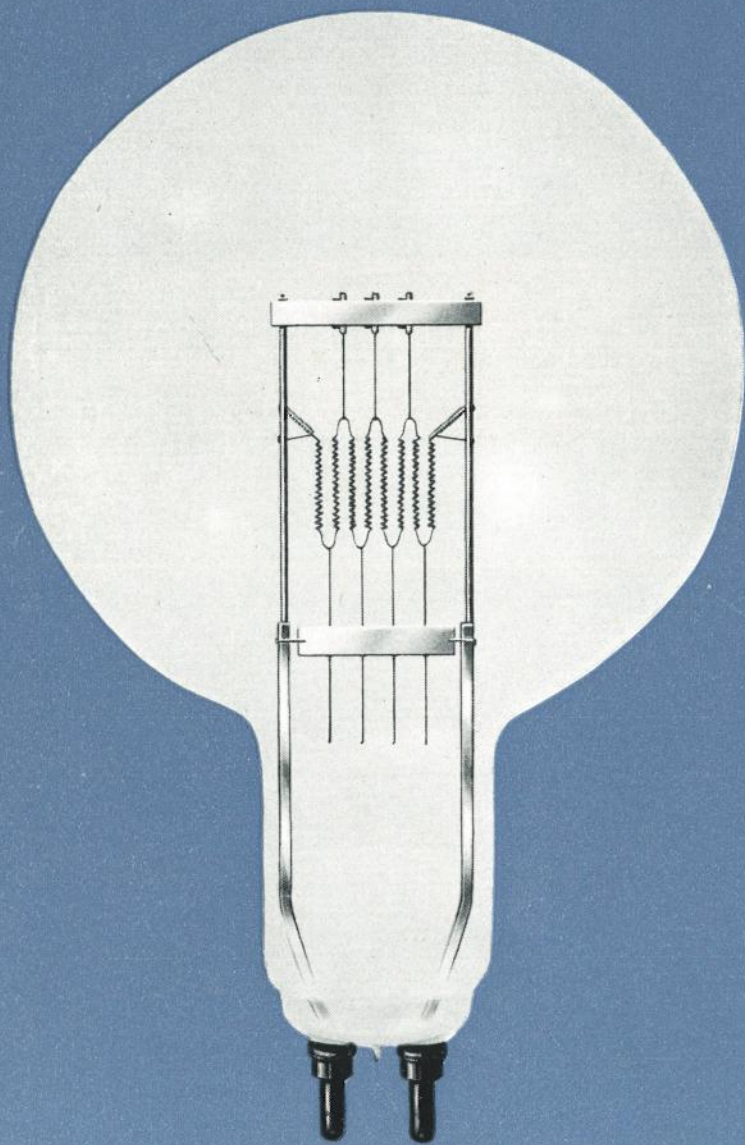
† Purchase Tax not chargeable.

Hospital Operating Theatre Double Filament

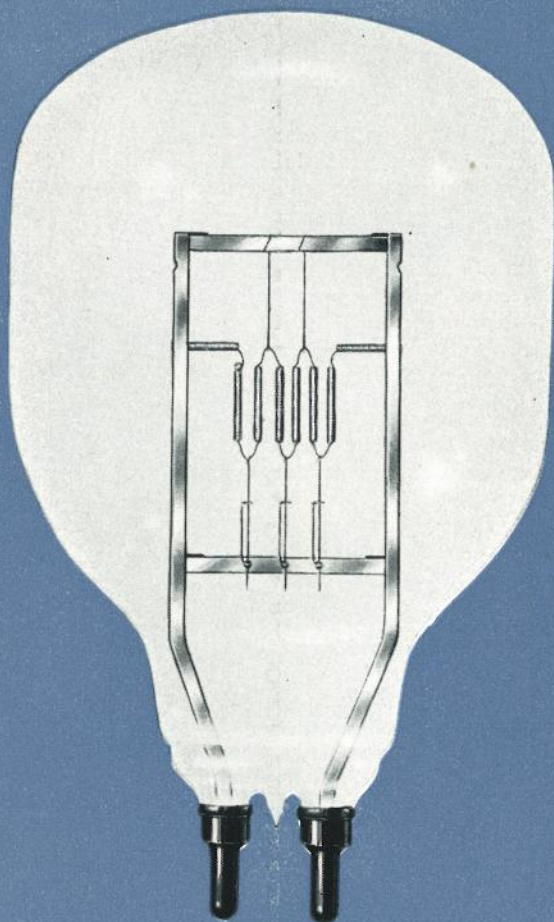
Filament	Watts	Voltages	Cap	Dimensions			Objective Life Hours	List Price † s. d.
				Length mm.	Diameter mm.	L.C.L. mm.		
Emergency	100	12	Special Screw Contact	215	121	135	100	34 3
Mains	150	210-30-40-250				160	1000	

* Purchase Tax is chargeable on the price of the Hospital Operating Theatre lamp. For the exact amount of purchase tax to be added, see TABLE A on the card insert.

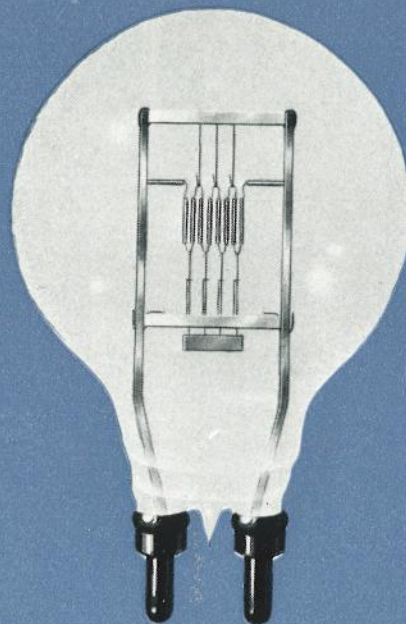
**Photographic
Studio Lamps**



10,000w.



5000w.



2000w.

Flood and Enlarger

Photoflood and Photographic Pearl lamps illuminate the subject with evenly distributed brilliance; the 275w. B.C. lamp is fitted with fuses for use in ordinary household sockets. The 500w. Photographic Pearl lamp is available with the ever popular round bulb.

The range of enlarger lamps include the Inside Silica Coated lamps which give a bright well-diffused light. The high wattage, spot-frosted has a clear bulb with the filament obscured by a small circle of frosting.

Studio

All studio lamps supplied by this company fully meet the exacting requirements of film production whether sound or silent, in black and white, or in colour. They are silent in operation. Their light is definite and constant in colour, bringing out the full possibilities of the various film emulsions. They have concentrated light sources of high intrinsic brilliancy, giving the powerful light concentration so necessary for efficient spotlight work, and their absolute reliability has resulted in their adoption almost exclusively by the British film industry.

Flood and Enlarger							
Lamp Ref. No.	Watts	Voltages	Cap	Dimensions		Objective Life Hours	List Price s. d.
				Length mm.	Diam. mm.		
Photo-flood (Pearl)							
PP/1	275	{ 100/110, 200/210, 220/230, 240/250 }	B.C. or E.S.	105±3.5	60±1	2	2 6
PP/2	500	{ 100/110, 200/210, 220/230, 240/250 }	B.C. or E.S.	160	80	10	6 6
Photographic Pearl							
—	500	110, 210, 230, 250	E.S.	175	100	100	22 0
Photographic Enlarger (Pearl)							
—	100	24	E.S.	125±3.5	70±1	100	13 9*
Photographic Enlarger (Inside Silica-coated)							
—	150	110, 210, 230, 240, 250	B.C. or E.S.	125±3.5	68±1	100	3 9*
Photographic Enlarger (2 in. Spot Frosted)							
—	400	110, 210, 230, 250	E.S.	253	110	100	27 6

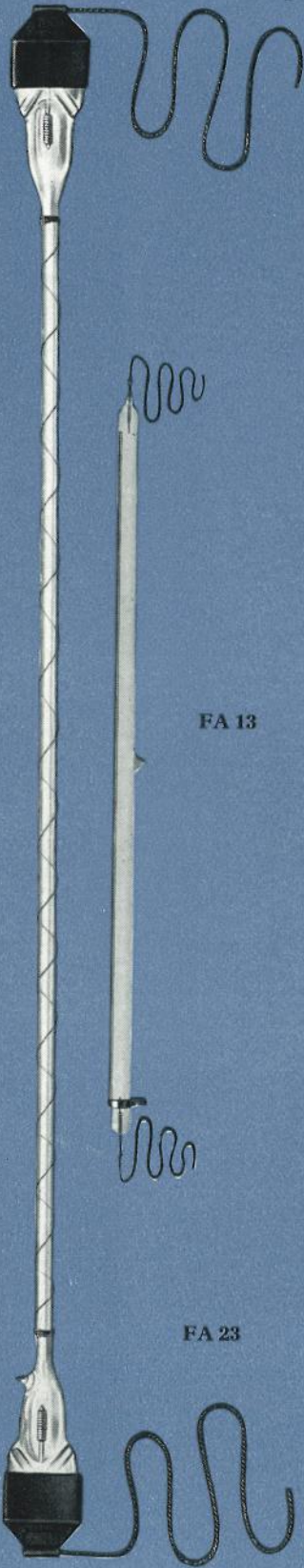
* Purchase Tax must be added to the prices of these lamps. For the exact amount of purchase tax to be added, see TABLE A on the card insert.

Studio Lamps

Lamp Ref. No.	Watts	Cap	Finish	Dimensions			Average Effective Life		List Price £ s. d.
				Length mm.	Diameter mm.	L.C.L. mm.	at 115 volts	at 230, 250 volts	
Class CP for Colour Photography—For use with colour film at 3200°K. Voltages 115, 230, 240, 250									
CP/1	275	B.C. or E.S.	Pearl	105±3.5	60±1	80±3	5 to 8	5 to 8	2 6
CP/2	500	B.C. or E.S.	Pearl	160±4.5	80±1	120±3.5	25	15	6 6
CP/8	500	Prefocus	Clear	133±7	64±2	55.5±0.5	30	15	1 13 0
CP/11	750	Prefocus	Clear	133±7	64±2	55.5±0.5	30	20	2 14 0
CP/3	1000	G.E.S.	Pearl	300±9	150±1.5	225±8	30	20	17 6
CP/4	1500	G.E.S.	Pearl	335±9	170±1.5	250±8	50	25	1 5 0
CP/12	2000	Bi-post	Clear	232±6	152±2	127±2	50	50	5 12 6
CP/13	5000	Bi-post	Clear	335±6	203±2	165±2	75	75	18 0 0
CP/14	10,000	Bi-post	Clear	490 max.	300±2	254±2	100	100	33 0 0
CP/15	20,000	Special	Clear	693±10	380±5	420±10	100	100	80 0 0
Lamp Ref. No.	Watts	Cap	Finish	Dimensions			Objective Life Hours	List Price £ s. d.	
				Length mm.	Diameter mm.	L.C.L. mm.			
Class S, suitable for 'Black and White' reproduction. Voltages 115, 230, 240, 250									
S/4	1000	Bi-post		232±6	152.5±2	127±2	100		4 6 0
S/1	2000	Bi-post		232±6	152.5±2	127±2	100		5 12 6
S/2	5000	Bi-post		335±6	203±2	165±2	100		18 0 0

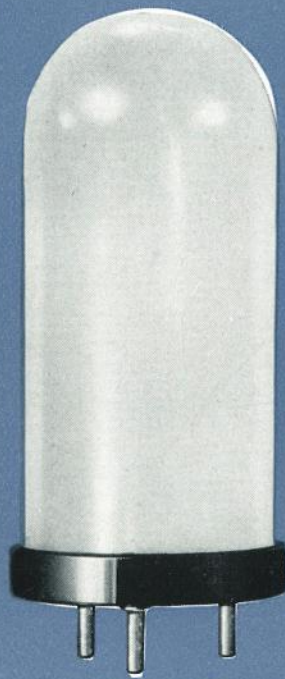
† Purchase Tax not chargeable.

Photo-Xenon



FA 13

FA 23



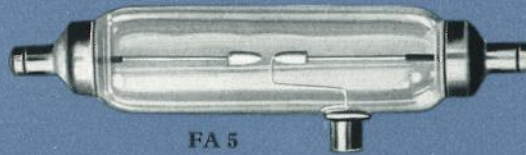
FA 1 & 21



FA 2 & 2s



FA 4 & 15



FA 5



FA 6



FA 7, 7s & 9



FA 8



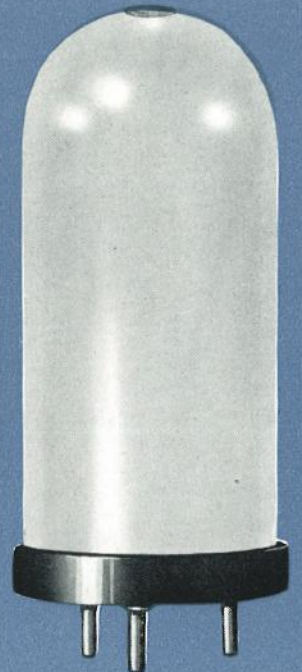
FA 10 & 12



FA 14



FA 25



FA 26

Xenon Electronic Flash Bulbs

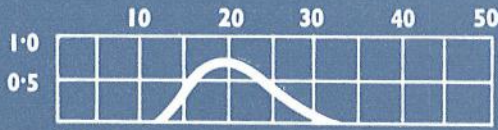
No.	Dimens. mm.		Max. Rating watts x secs.	Approx. Minimum Trigger Voltage kV	Operating Voltage		*Rate of Flash at Maximum Dissipation	Flash Duration (micro-sec.)		Capacitance in μ f at normal operating volts	Base	List Price (No P.T.) £ s. d.
	Length Excl'ng Pins	Diam. of Glass			Max.	Min.		Above $\frac{1}{2}$ peak	Above $\frac{1}{4}$ peak			
FA 1	150 \pm 7	66 \pm 4	1000	8	2700	2000	1 in 10 sec.	1250	600	320	3-pin Special	10 0 0
FA 2	90 \pm 5	46 \pm 2	500	8	2700	2000	1 in 10 sec.	870	300	160	3-pin 5-amp.	5 0 0
FA 2s	90 \pm 5	46 \pm 2	—	8	2500	1500	300 per sec.	—	—	—	3-pin 5-amp.	5 0 0
FA 4	70 mm. inside dia. of circle		300	3	2700	2000	1 in 10 sec.	440	180	96	Flexible Leads	3 18 6
FA 5	148 \pm 4 (overall)	32 max.	150	10	2000	1000	1 in 10 sec.	250	65	—	0-359" Ferrules	10 10 0
FA 6	70 \pm 2	31 \pm 2	100	3	1100	500	1 in 10 sec.	410†	180†	200	UX 4-pin	4 10 0
FA 7	80 \pm 2	31 \pm 2	100-200	3	2700	2000	1 in 10 sec.	800	290	64	UX 4-pin	5 0 0
FA 7s	80 \pm 2	31 \pm 2	—	3	2500	1500	300 per sec.	—	—	—	UX 4-pin	5 0 0
FA 8	55 \pm 2	25 \pm 1	75	4.5	500	250	1 in 10 sec.	800†	270†	600	Internat. Octal	4 0 0
FA 9	80 \pm 2	31 \pm 2	200	3.5	1100	500	1 in 10 sec.	2000†	770†	400	UX 4-pin	5 0 0
FA 10	50 \pm 2 (overall)	—	100	3.5	270	200	1 in 10 sec.	2620†	865†	2750	2-pin 2-amp.	2 10 0
FA 12	50 \pm 2 (overall)	—	50	3.5	200	145	1 in 10 sec.	3200†	1200†	3100	2-pin 2-amp.	2 10 0
FA 13	290 \pm 3	—	300	3.5	2700	2000	1 in 10 sec.	440	180	96	Flexible Leads	4 0 0
FA 14	92 \pm 5	66 \pm 4	200	3.5	1100	500	1 in 10 sec.	2000†	770†	400	3-pin Special	5 10 0
FA 15	70 mm. inside diameter of circle		400	3.5	1100	500	1 in 10 sec.	2600†	790†	800	Flexible Leads	3 18 6
FA 21	150 \pm 7	66 \pm 4	1600	8	1100	800	1 in 10 sec.	8000†	2400†	3200	3-pin Special	12 0 0
FA 23	550 max. Light Length 460		2500	8	2700	2000	1 in 10 sec.	—	—	800	Flexible Leads	18 0 0
FA 25	62 \pm 2	—	100	3.5	1100	800	1 in 10 sec.	410†	180†	200	2-pin 2-amp.	4 10 0
FA 26	150 \pm 7	66 \pm 4	4000	8	2700	2000	1 in 10 sec.	—	—	1280	3-pin Special	20 0 0

* Tested to 5000 flashes for single flash operation; stroboscopic tubes have been tested to 100 hours.

† With electrolytic capacitors.



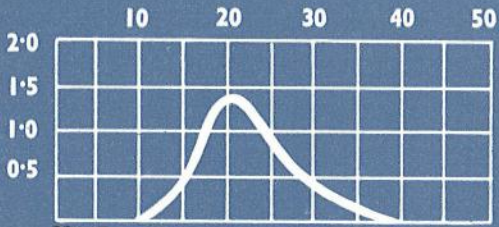
TIME IN MILLISECONDS



No. 1



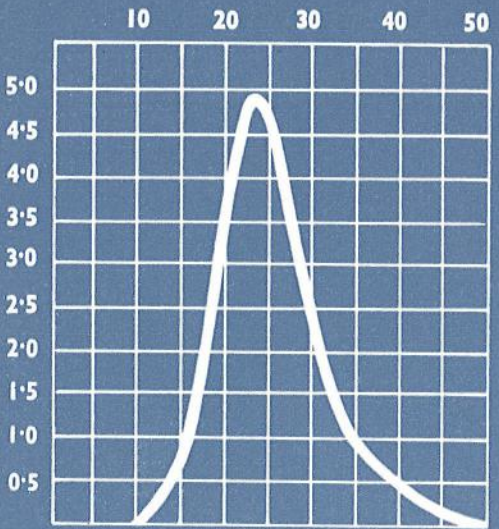
No. 1B (Blue)



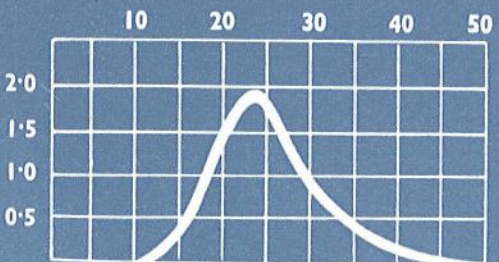
No. 5



No. 5B (Blue)



No. 22



No. 22B (Blue)

LIGHT INTENSITY IN MILLIONS OF LUMENS



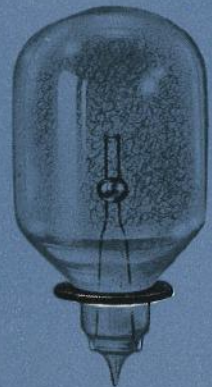
No. 1



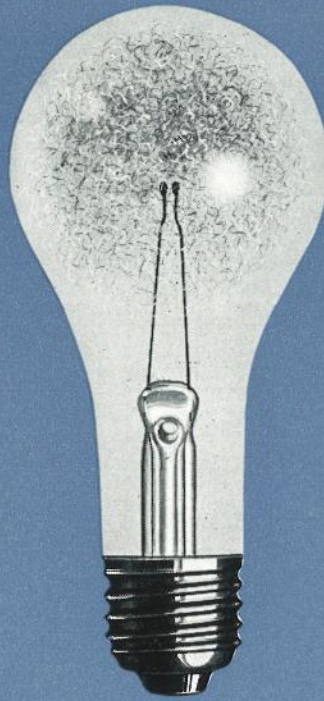
No. 1B



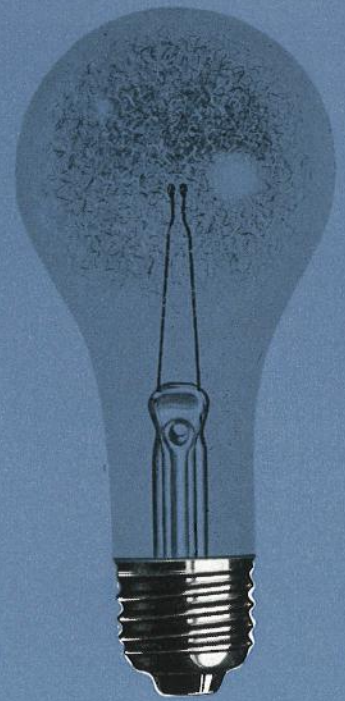
No. 5



No. 5B



No. 22



No. 22B

Adaptor-ejector

Mazda capless photoflash bulbs (No. 1 and No. 5), dispense with the usual metal cap and are designed to fit into flash guns to take the capless bulbs or into the Mazda adaptor/ejector for those that have flash guns with the A.S.C.C. holders.

The Mazda adaptor-ejector can be purchased from photographic dealers—price **1s. 6d.**; it can be used time and again and can be left permanently in the flash gun.

Capless photoflash bulbs are made in Germany.

Open Flash Technique

Existing domestic lighting should not interfere with exposure providing it is not too bright. Arrange your subject at the required distance and set the aperture in accordance with guide numbers shown in the table or on the carton.

1. Insert photoflash bulb into holder.
2. Focus camera.
3. Set camera shutter to 'Time' (T) or 'Bulb' (B).
4. Open shutter and immediately fire flash-gun.
5. Close shutter as soon as flash has occurred.

Synchronized Flash

Synchronized Flash differs from open flash in that the entire process is automatic. Only one operation is required to open the shutter, fire the photoflash bulb and close the shutter again. However, you should ascertain the type of synchronization with which your camera is equipped, and use only the photoflash bulbs recommended.

1. Connect the flash-gun to the camera.
2. Insert photoflash bulb into holder.
3. Set shutter speed.
4. Set aperture.
5. Focus camera.
6. If necessary, cock shutter.
7. Trip shutter to fire photoflash bulb.
8. Wind on film and re-set for next picture.

Note: With a synchronized flash-gun you do not need to reduce the room lighting, as the shutter is not open long enough for it to affect the film.

Photoflash Bulbs Characteristics

	No. 1	No. 1B	No. 5	No. 5B	No. 22	No. 22B
Peak Lumens, Million Lumens ..	0.6	0.3	1.4	0.7	5.0	2.0
Time to peak, Milliseconds ..	18	18	20	20	23	23
Time to half peak, Milliseconds ..	13	13	12	12	17	17
Duration at half peak, Milliseconds	10	10	12	12	14	14
Light Output, Lumen Seconds ..	6500	3500	18,000	9000	75,000	30,000
Colour Temperature, °K ..	4000	6000	4000	6000	3800	6000
Operating Voltage ..	3-42	3-42	3-42	3-42	3-42	3-42
Length of Lamp, mm. ..	51	51	62	62	116	116
Diameter of Lamp, mm. ..	23	23	31	31	60	60
Speed Class ..	M	M	M	M	M	M
Cap ..	Capless	Capless	Capless	Capless	E.S.	E.S.
List Price each ..	8d.	9d.	1s. 0d.	1s. 1d.	1s. 8d.	1s. 10d.

Exposure Guide Numbers

In the table below will be found the guide number to suit a given film speed using any particular Mazda clear photoflash bulb. The guide number is the f. number or 'stop' multiplied by the distance in feet between photoflash bulb and subject. These guide numbers hold good providing—

1. A 6" diameter reflector is used.
2. Exposure is made in a fairly large room or hall with medium coloured walls and

furnishings giving a moderate degree of reflected light.

3. The subject is of medium tone or colour.
4. Frontal-lighting conditions exist, with the photoflash bulb in proximity to the camera/subject axis.

Note: For pictures taken in a small room with light coloured walls, reduce the lens aperture by one stop. For large and dark interiors or out of doors, use one stop larger.

Guide Numbers Clear Bulbs—Monochrome Film

Photoflash Bulb	Shutter Speed	Tungsten Film Speed				
		BS 22-24°	BS 25-27°	BS 28-30°	BS 31-33°	BS 34-36°
No. 1	1/25 th Second	60	80	120	160	240
	1/50 th "	40	60	80	120	160
	1/100th "	40	60	80	120	160
	1/250th "	30	45	60	90	125
	1/500th "	27	35	50	70	100
No. 5	1/25 th Second	100	140	200	280	400
	1/50 th "	70	100	140	200	280
	1/100th "	70	100	140	200	280
	1/250th "	50	70	100	140	200
	1/500th "	35	50	70	100	140
No. 22	1/25 th Second	170	240	340	480	680
	1/50 th "	145	210	300	410	600
	1/100th "	130	180	260	370	520
	1/250th "	75	105	150	210	295
	1/500th "	50	70	100	145	200

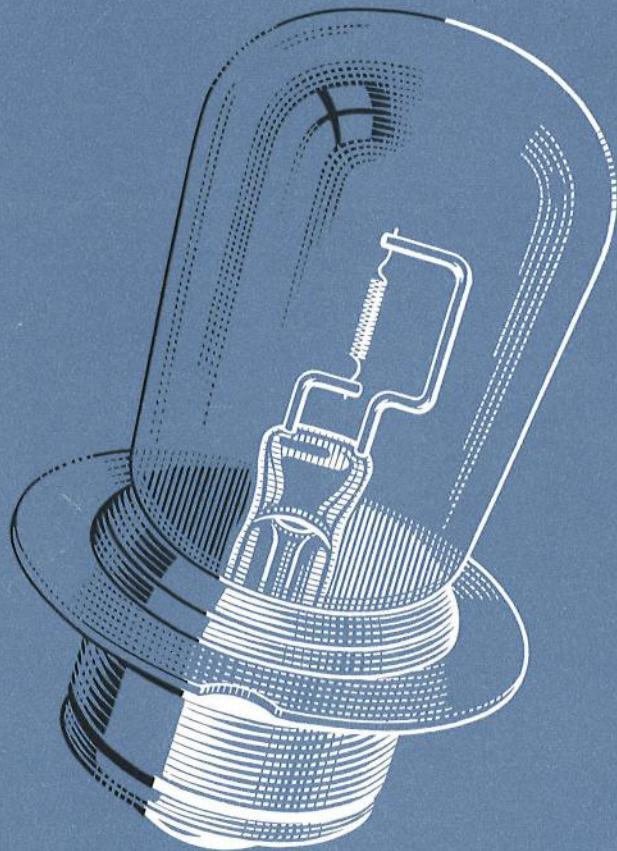
Guide Numbers Blue Lacquered Bulbs

Photoflash Bulb	Shutter Speed	Film Speed			
		BS 21°	BS 23°	BS 25°	BS 27°
No. 1B	1/25th Sec.	30	35	45	60
No. 5B	"	45	55	70	90
No. 22B	"	85	110	135	170

Mazda

Lamps stay brighter longer

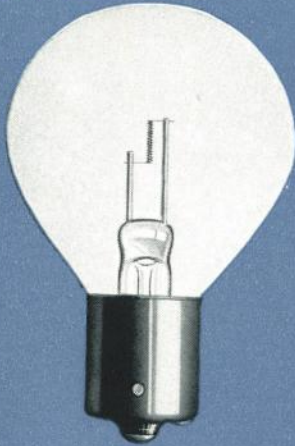
CAR BULBS • FLASHLIGHT CYCLE DYNAMO



Sections 17—20



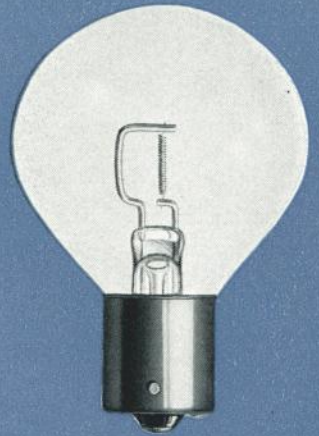
Ordinary Headlight



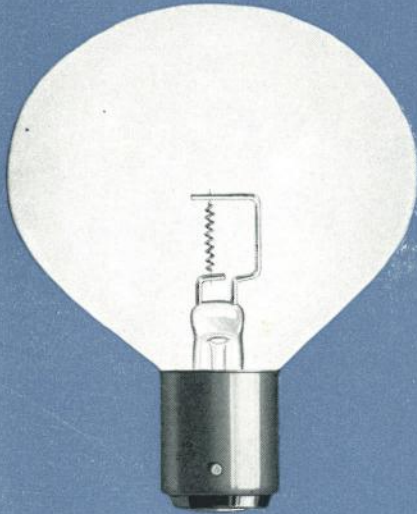
No. 2



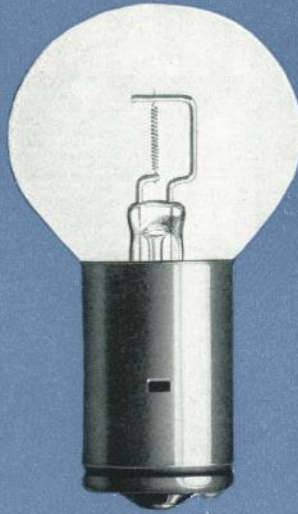
No. 168



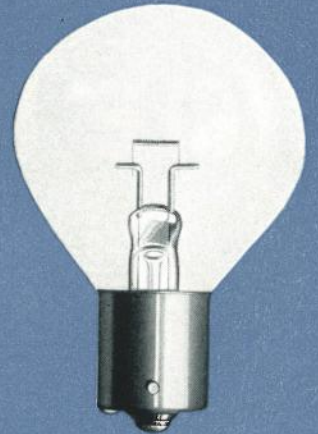
No. 23



No. 128



No. 130



No. 57

Dimensions in millimetres

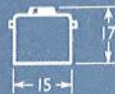


BA.21s



BA.21d

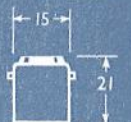
3-pin B.C.



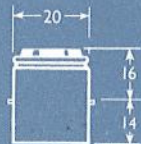
S.C.C.
BA.15s/17



S.B.C.
BA.15d/17



A.S.B.C.
BA.15d/21



BA.20d

Bosch



BA.20s



B.C.
B22/22

Ordinary Headlight Bulbs

The range of lamps listed here meets the requirements of all motorists not equipped with pre-focus type headlights. There are lamps suitable for Private Cars, Motor Cycles and Commercial Vehicles of many kinds.

There are many '12-volt system' cars which use lamps such as No. 96 12v. 48w. Bosch Cap or No. 57 12v. 36w. S.C.C. Cap which are among the more popular, but 6-volt systems on some low horsepower cars and 24-volt systems found on Bus and large vehicles are all adequately covered.

Ordinary Single Filament

Lamp No.	Volts	Watts	List* Price s. d.	Filament	Cap	Dimensions	
						Length mm.	Diam. mm.
605	6	24	2 9	Axial	3-pin B.C.(BA.21s)	61 max.	38
106	6	24	2 6	Axial	S.C.C.	56	38
109	6	24	2 7	Axial	S.B.C.	56	38
108	6	36	2 9	Axial	S.C.C.	56	38
374†	6	36	4 0	Axial	S.C.C.	56	38
607	6	36	3 0	Axial	3-pin B.C.(BA.21s)	61 max.	38
130	6	36	3 0	Axial	Bosch (BA.20s)	65	38
75	6	36	2 9	Transverse	S.C.C.	56	38
111	6	36	2 10	Axial	S.B.C.	56	38
608§	6	36	3 0	Transverse	S.C.C.	56	38
675	6	48	4 3	Axial	3-pin B.C.(BA.21s)	61 max.	38
676†	6	48	5 6	Axial	3-pin B.C.(BA.21s)	61 max.	38
1	12	24	2 6	Axial	S.C.C.	56	38
4	12	24	2 7	Axial	S.B.C.	56	38
2	12	36	2 6	Axial	S.C.C.	56	38
612	12	36	2 9	Axial	3-pin B.C.(BA.21s)	61 max.	38
57	12	36	2 6	Transverse	S.C.C.	56	38
375‡	12	36	3 9	Axial	S.C.C.	56	38
5	12	36	2 7	Axial	S.B.C.	56	38
615§	12	36	3 0	Transverse	S.C.C.	56	38
616	12	48	4 3	Axial	3-pin B.C.(BA.21s)	61 max.	38
683†	12	48	5 6	Axial	3-pin B.C. BA.21s)	61 max.	38
23	12	48	4 0	Axial	S.C.C.	56	38
27	12	48	4 1	Axial	S.B.C.	56	38
96	12	48	4 3	Axial	Bosch (BA.20s)	65	38
618	12	60	5 9	Axial	3-pin B.C.(BA.21s)	72 max.	50
90	12	60	5 6	Axial	S.C.C.	63	50
26	12	60	5 7	Axial	S.B.C.	63	50
87	12	60	5 9	Axial	Bosch (BA.20s)	74	50
621	24	36	2 6	Axial(a)	S.C.C.	56	38
123	24	36	2 7	Axial(a)	S.B.C.	56	38
622	24	36	2 7	Axial(a)	B.C.	56	38
623	24	48	4 0	Axial(a)	S.C.C.	56	38
140	24	48	4 1	Axial(a)	S.B.C.	56	38
624	24	48	4 1	Axial(a)	B.C.	56	38
684	24	48	4 3	Axial	3-pin B.C. (BA.21s)	61 max.	38
686†	24	48	5 6	Axial	3-pin B.C. (BA.21s)	61 max.	38
124	24	60	5 6	Axial(a)	S.C.C.	63	50
128	24	60	5 7	Axial(a)	S.B.C.	63	50
127	24	60	5 7	Axial(a)	B.C.	63	50
131	24	60	5 9	Axial(a)	Bosch (BA.20d)	74	50

* Purchase Tax see note below. § Special Light Centre length.
 ‡ Cadmium Yellow Bulb. (a) Coiled Coil.

Ordinary Double Filament

Lamp No.	Volts	Watts	List* Price s. d.	Filament (main on the axis)	Cap	Dimensions	
						Length mm.	Diam. mm.
386	6	15 & 15	5 3	Axial and Transverse	S.B.C. Unequal pins	49 max.	25
180	6	18 & 18	4 6	Inverted Vee	S.B.C.	56	38
168	6	24 & 24	3 6	Inverted Vee	S.B.C.	56	38
183	6	24 & 24	3 9	Inverted Vee	Bosch (BA.20d)	65	38
169	6	30 & 30	3 6	Inverted Vee	S.B.C.	56	38
628	6	30 & 30	3 9	Inverted Vee	3-pin B.C.(BA.21d)	61 max.	38
170	6	36 & 36	3 6	Inverted Vee	S.B.C.	56	38
171	6	36 & 36	3 6	Inverted Vee	S.B.C.	56	38
630	12	36 & 36	3 9	Inverted Vee	3-pin B.C.(BA.21d)	61 max.	38
376†	12	36 & 36	4 9	Inverted Vee	S.B.C.	56	38
633	12	36 & 36	3 6	Inverted Vee	A.S.B.C.	59	38
182	12	36 & 36	3 9	Inverted Vee	Bosch (BA.20d)	65	38
194	24	36 & 36	4 3	Transverse(a)	S.B.C.	56	38
671	24	44 & 38	5 4	Transverse	S.B.C.	56	38

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the card insert.
 ‡ Cadmium Yellow Bulb. (a) Coiled Coil. || or Single Coil Double Transverse.

Prefocus Headlight



No. 162



No. 323



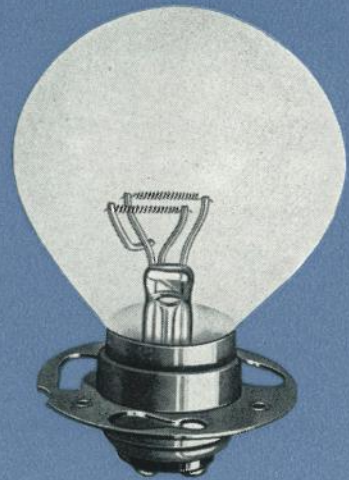
No. 172



No. 354

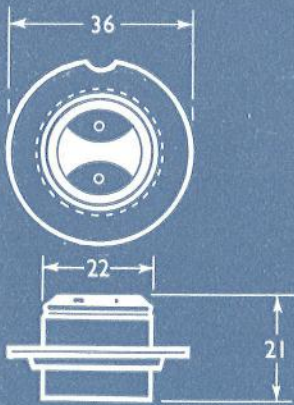


No. 359

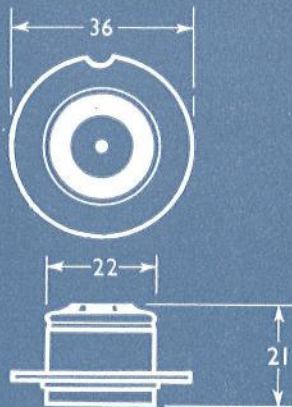


No. 632

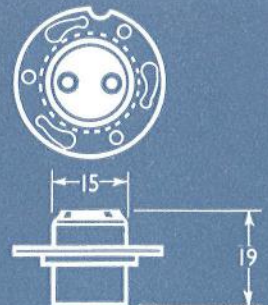
Prefocus Caps



Prefocus
P22d/21



Prefocus
P22s/21



American Type Prefocus
P15d/19

Prefocus Headlight Bulbs

The extensive use of prefocus type car bulbs is an indication of the advantages of a fixed filament position. However, these advantages can only be enjoyed if the bulb is of first class quality and workmanship and is reliable.

Our prefocus headlight bulbs are made to stay in focus; everything is done to ensure that the lamp gives every satisfaction.

Prefocus Single Filament

Caps:—Single Contact P22s/21, Double Contact P22d/21

Lamp No.	Volts	Watts	List* Price		Filament	Contact	Dimensions	
			s.	d.			Length mm.	Diam. mm.
172	6	36	3	9	Axial Single Coil	Single	64 max.	28 ±1
173	6	36	3	9	Trans. Single Coil	Single		
162	12	36	3	9	Axial Single or Coiled Coil	Single		
325†	12	38	3	9	Trans. Single Coil	Single		
326†	12	38	3	9	Trans. Single Coil	Double		
323	12	48	4	6	Trans. Single or Coiled Coil	Single		
600‡	12	48	5	9	Trans. Single or Coiled Coil	Single		
185	12	48	4	6	Axial Single or Coiled Coil	Single		
685‡	12	48	5	9	Axial Single Coil	Single		
331‡	24	44	4	6	Axial Coiled Coil	Double		
606‡	24	44	4	6	Trans. Coiled Coil	Single		
330‡	24	44	4	6	Trans. Coiled Coil	Double		
601‡‡	24	44	5	9	Trans. Coiled Coil	Double		

* Purchase Tax see note below.

† For Commercial Vehicles only. ‡ Cadmium Yellow Bulb.

Prefocus Double Filament

Caps:—Double Contact P22d/21

Dimensions:—Length 64 mm. max. Diameter 28 ± 1 mm.

Lamp No.	Volts	Watts	List* Price		Filament (Main on the axis)	Contact	Dipping Arrangements	
			s.	d.			Dip	Drive
311	6	18 & 18	5	3	Single Coil	Double	Vertical	Either
166	6	24 & 24	4	9	Single Coil	Double	Vertical	Either
312	6	30 & 24	5	0	Single Coil	Double	Vertical	Either
373	6	30 & 24	5	6	Single Coil	Double	Left	R/Hand
602‡	6	30 & 24	6	3	Single Coil	Double	Vertical	Either
356	6-4	45 & 35	5	9	Single Coil	Double	Left	R/Hand
408(f)	12	21 & 38	6	3	Single Coil	Double	—	—
354	12	42 & 36	4	6	Single Coil	Double	Left	R/Hand
355	12	42 & 36	5	0	Single Coil	Double	Right	L/Hand
603‡	12	42 & 36	5	9	Single Coil	Double	Left	R/Hand
604‡	12	42 & 36	6	3	Single Coil	Double	Right	L/Hand
358‡	12	44 & 38	5	4	Single Coil	Double	Left	R/Hand
302¶	12	48 & 48	6	9	Single or Coiled Coil	Double	Left	R/Hand
404§	12	60 & 36	7	6	Single Coil	Double	Left	R/Hand
359‡	24	44 & 38	5	7	Coiled Coil	Double	Left	R/Hand
332‡	24	44 & 38	5	7	Coiled Coil	Double	Right	L/Hand

* Purchase Tax see note below.

† For Commercial Vehicles only. ‡ Cadmium Yellow Bulb. ¶ Both filaments are offset.

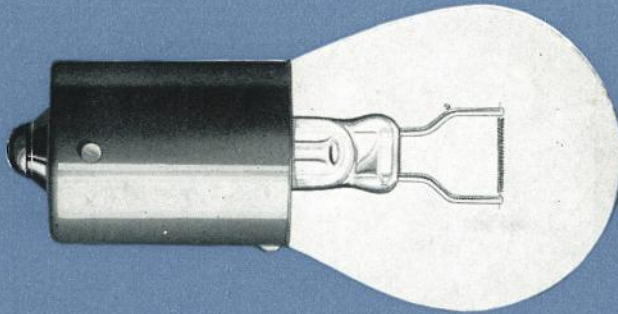
§ 38 mm. dial bulb (f) Fog Lamp and Turn Signal Indicator.

American Type Prefocus

Lamp No.	Volts	Watts	List* Price		Filament	Cap	Dimensions	
			s.	d.			Length mm.	Diameter mm.
669	6	36	3	6	Axial	P15s/19	58	38
667	6	36	3	6	Transverse	P15s/19	58	38
670	12	36	3	3	Axial	P15s/19	58	38
668	12	36	3	6	Transverse	P15s/19	58	38
619	12	60	6	0	Transverse	P15s/19	65	50
629	6	30 & 30	4	0	Inverted Vee	P15d/19	58	38
632	12	36 & 36	4	0	Inverted Vee||	P15d/19	58	38

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the card insert. || or Single Coil Transverse.

Ancillary Car Bulbs



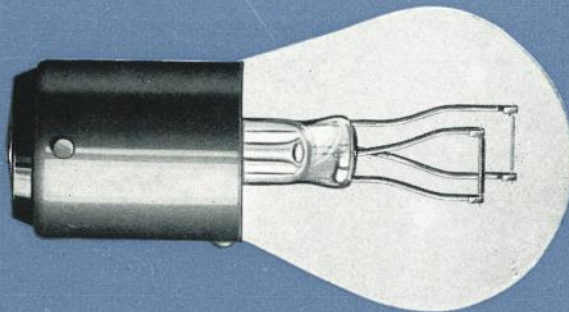
No. 382 Stop



No. 993 Indicator



No. 987 Indicator



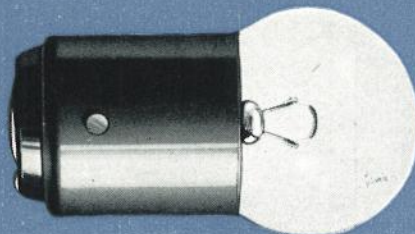
No. 381 Stop



No. 280 Indicator



No. 642 Indicator



No. 204 Side & Tail



No. 256 Festoon

Dimensions in millimetres



M.E.S.
E10/13



M.C.C.
BA.9s/14



S.C.C.
BA.15s/17



S.B.C.
BA.15d/17



BA.15d/19



S.B.C. Index
BA.15d/19

Few doubt that the modern style of direction indication by flashing lamps is the most sure and the most efficient, but the reliability of the system is dependent largely on the quality of the lamps. Our Stop and Tail lamps are world-famous for their efficiency and reliability. The same high standard of workmanship has gone into the construction of certain Stop Lamps for Flashing Indication applications.

The lamps recommended are for 12-volt systems. They are lamps Nos. 380 and 381 which have two independent filaments, also the single filament lamps Nos. 335 and 382.

The double filament lamps may be used for both flashing indicator and 'stop' indication. By suitable circuit arrangement, the filament can be used for flashing or for a steady light as required.

All car bulbs are designed to withstand vibrations of much greater magnitude than occurs in normal service, to ensure that they retain their efficiency even under severe operating conditions.

Festoon lamps are suitable for many old and new makes of car for roof lights or trafficator.

Stop and Stop Tail Transverse Filament							
Lamp No.	Volts	Watts	List* Price		Cap	Dimensions	
			s.	d.		Length mm.	Diameter mm.
317	6(s)	18	3	9	BA15s/19	47	25
319	6(s)(f)	18	3	9	BA15d/19	47	25
190	6(d)	3 & 18	3	6	BA15d/19	47	25
352	6(d)	3 & 18	3	9	S.B.C. Index	47	25
383	6(d)	6 & 18	3	6	BA15d/19	47	25
384	6(d)	6 & 18	3	6	S.B.C. Index	47	25
335	12(s)	21	3	0	BA15d/19	47	25
382	12(s)(f)	21	3	0	BA15s/19	47	25
380	12(d)(f)	6 & 21	3	6	S.B.C. Index	47	25
381	12(d)(f)	6 & 21	3	6	BA15d/19	47	25
334	24(d)	6 & 24	3	9	S.B.C. Index	47	25
692	24(d)	6 & 24	3	9	BA15d/19	47	25
333	24(s)	24	3	10	BA15d/19	47	25
339	24(s)	24	3	10	BA15s/19	47	25

* Purchase Tax see note below. (d) Double Filament. (f) Flashing Indicator also. (s) Single Filament.

Side and Tail Bow Filament							
Lamp No.	Volts	Watts	List* Price		Cap	Dimensions	
			s.	d.		Length mm.	Diameter mm.
200	6	3	1	4	S.C.C.	32.5	18
204	6	3	1	5	S.B.C.	32.5	18
988	6	3	1	5	M.C.C.	28	15
951	6	6	1	7	M.C.C.	28	15
205	6	6	1	6	S.C.C.	32.5	18
206	6	6	1	7	S.B.C.	32.5	18
207	12	6	1	4	S.C.C.	32.5	18
209	12	6	1	5	S.B.C.	32.5	18
225§	12	6	2	0	S.B.C.	32.5	18
222	12	4	1	5	M.C.C.	28	15
989	12	6	1	5	M.C.C.	28	15
149¶	24	6	1	4(c)	S.C.C.	32.5	18
150¶	24	6	1	5(c)	S.B.C.	32.5	18
638¶	24	6	1	5(c)	B.C.	37	18

* Purchase Tax see note below. (c) Vee Filament no extra. ¶ With Supported Filament. § "Rough Service" type.

Indicator							
Lamp No.	Volts	Watts	List* Price		Cap	Dimensions	
			s.	d.		Length mm.	Diameter mm.
990	6	3	1	1	M.E.S.	23	11
641	6	3	1	2	M.C.C.	23.5	11
981	6	3	1	3	M.E.S.	27.5	15
642	6	3	1	6	M.C.C.	28	15
950	6	6	1	3	M.E.S.	27.5	15
280	12	1.5	1	9	E5/8	15	6.75
987	12	2.2	1	1	M.E.S.	23	11
643	12	2.2	1	2	M.C.C.	23.5	11
986	12	2.2	1	1	M.E.S.	27.5	15
645	12	2.2	1	2	M.C.C.	28	15
985¶	16	3	2	3	M.E.S.	27.5	15
647¶	16	3	2	6	M.C.C.	28	15
993¶	24	2.8	1	4	M.E.S.	27.5	15
651¶	24	2.8	1	5	M.C.C.	28	15

* Purchase Tax see note below. ¶ With Supported Filament.

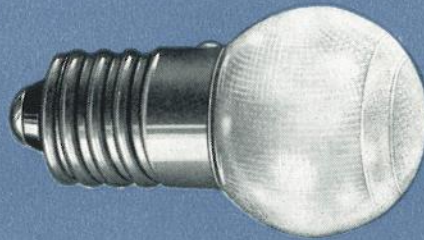
Festoon							
Lamp No.	Volts	Watts	List* Price		Cap	Dimensions	
			s.	d.		Length mm.	Diameter mm.
255	6	3	2	3	S7/8	35.5	7.5
253	6	6	2	7	S8.5/8	38	11
256	12	3	2	3	S7/8	35.5	7.5
254	12	6	2	7	S8.5/8	38	11
653	24	6	2	6	S8.5/8	38	11
654¶	24	6	3	10	S8.5/8	38	11
260	24	6	2	7	S8.5/8	44	11

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the card insert. ¶ With Supported Filament.

Cycle Dynamo & Flashlight



3.5v. 0.15 amp.
Cycle Tail



6v. 0.45 amp.
Cycle Head (Granulated)



2.5v. 0.2 amp.
Flashlight



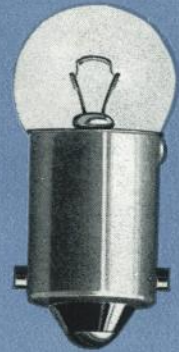
Lens End
Flashlight



Prefocus
Flashlight



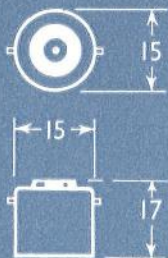
6v. 0.04 amp.
Cycle Tail



6.5v. 0.3 amp.
Speedometer

NOTE : THE LAMPS ON THIS PAGE ARE SHOWN LARGER THAN ACTUAL SIZE

Dimensions in millimetres



S.C.C.
BA.15s/17



M.C.C.
BA.9s/14



M.E.S.
E10/13

Cycle Dynamo

Among the lamps listed on this page will be found one to suit any type of cycle lighting equipment in use today. A combination of correctly rated lamps front and rear will give a well balanced and reliable lighting system.

A recent improvement in design has been effected with the 6v. 0.04 amp. Tail Lamp (illustrated). By firm anchoring of the filament the new design offers much improved resistance to service shock and improved beam candle-power in the horizontal plane; the filament position with respect to the axis of the lamp lens is rigidly controlled.

Motor Cycle Speedometer

This lamp is used mostly in speedometers for motor cycles or autocycles, etc., but many manufacturers have included the illuminated type of speed indicator for bicycles. The lamp gives sufficient output without glare.

Flashlight Lamps

Listed here are lamps to suit all sizes and makes of torch and cycle lamp. The lens-end lamp is designed to provide the fountain pen type of small torch with a concentrated 'circle' of light, making full use of the small amount of current available.

Cycle Dynamo Headlamps

Volts	Amps.	List Price*		Finish	Cap	Diameter mm.	
		s.	d.				
6	0.2		8	Clear	M.E.S.	15	
6	0.2		8	Granulated		15	
6	0.3		8	Clear		15	
6	0.3		8	Granulated		15	
6	0.45		8	Clear		15	
6	0.45		8	Granulated		15	
6	0.5		8	Clear		15	
6	0.5		8	Granulated		15	
6	0.3	1	4	Clear		S.C.C.	18
6	0.5	1	4	Clear			18
6	1.0	1	4	Clear	M.E.S.		15
6	1.0	1	6	Clear	S.C.C.		18

* Purchase Tax see note below.
Granulated bulbs give better light diffusion.

Cycle Dynamo Tail Lamps

Volts	Amps.	List Price*		Finish	Cap	Diameter mm.
		s.	d.			
1.5	0.15		8	Clear	M.E.S.	15
3.5	0.15		8		M.C.C.	11 or 15
6.0	0.04		8		M.E.S.	11 or 15
6.0	0.10		8		M.E.S.	11

* Purchase Tax see note below.

Speedometer

Volts	Amps.	List Price*		Finish	Cap	Diameter mm.
		s.	d.			
6.5	0.3		7	Clear	M.C.C.	11

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the card insert.

Flashlight Lamps

Volts	Amps.	List Price*		P.T. Extra s. d.	Finish	Cap	Diameter mm.		
		s.	d.						
Ordinary Flashlight									
1.5	0.11		8	1½	Clear	M.E.S.	15		
1.5	0.2		4	1			11		
2.0	0.6		8	1½			15		
2.5	0.2		4	1			11		
2.5	0.3		4	1			11		
3.5	0.15		4	1			11		
3.5	0.3		4	1			11		
4.0	0.3		4	1			11		
4.5	0.3		4	1			15		
5.0	0.15		8	1½			15		
Lens End Flashlight									
2.2	0.25		7	1½			Clear	M.E.S.	9.5 max.
Prefocus Flashlight									
2.5	0.2	1	0	2½	Clear	Special Prefocus	11 max.		
2.5	0.3	1	0	2½			11 max.		
3.5	0.3	1	0	2½			11 max.		

Aircraft and Transport

THE LAMPS shown in the following section are types which have been developed to meet the requirements of the special services for which they are specifically designed, Careful and prolonged study of the conditions of operation which each type has to withstand satisfactorily, the carrying out of extensive field trials coupled with the accumulated experience of more than half a century of lamp manufacture has resulted in the production of lamps particularly suitable for each individual service.

The following types are made to comply strictly with the provisions of the relevant British Standard Specification.

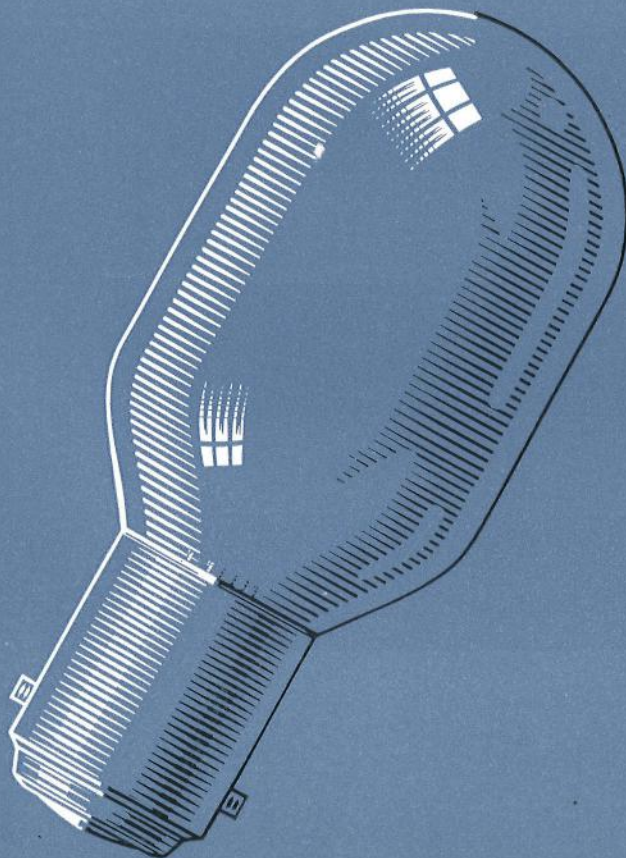
Bus Lamps	..	..	..	..	..	B.S. 555
Traction Lamps	..	..	..	..	..	B.S. 867
Traffic Control Lamps	..	..	..	..	..	B.S. 505
Miners' Lamp Bulbs	..	..	..	..	..	B.S. 535
Telephone Indicator Lamps	..	..	..	..	..	B.S. 1050

The service of our Lamp Engineers is always available to recommend the most suitable lamp for any particular application.

Mazda

Lamps stay brighter longer

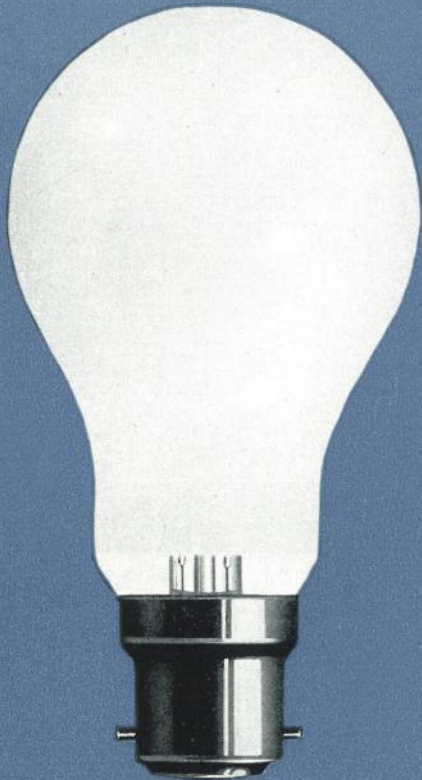
**TRANSPORT
AIRCRAFT • MINERS'
VISUAL INDICATOR**



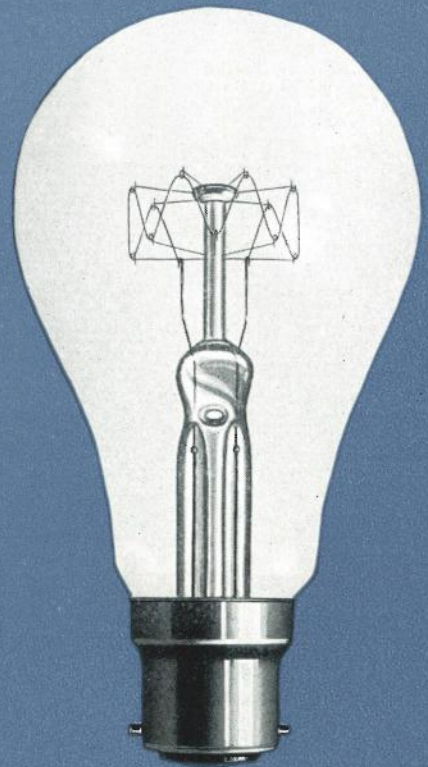
Sections 21—28



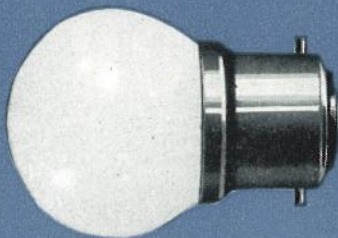
Transport, etc.



Traction

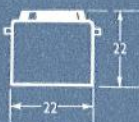


Traffic Signal



Bus

Bus & Trolley Bus



B.C.
B22/22



B.C.
B22/21 x 26



S.B.C.
BA.15d/17



B.C.
B22/25 x 26



E.S.
E27/27

Traffic Signal

Bus Interior

Pearled to counter glare to passengers, bus interior lamps are available in standard voltages with two varieties of cap.

Trolley Bus

These lamps have been designed mainly for use in trolley buses but they are used extensively on other low voltage systems where small diameter bulbs are required.

Traction

Produced for operation in series in tube-trains, tramcars and other public service transport, traction lamps have an accurately rated amperage to ensure uniform performance.

Traffic Signal

Suitable for red, amber and green signals these lamps are available in two types with different Light Centre Lengths to fit standard types of traffic control equipment.

Bus Interior Pearl Bulb

Standard Caps:—B.C. (B22/21 × 26) or S.B.C. (BA.15d/17) Filaments:—Vee or Bow

Watts	Volts	Dimensions		List* Price	
		Length mm.	Diameter mm.	s.	d.
12	12	53 (B.C.) 56 (S.B.C.) or 68	38 38 or 50	2	0a
12	24			2	1a
20	24			2	4

a Available inside silica-coated in 50 mm. dia. only 4d. extra.

35 volt Trolley Bus

Standard Caps: B.C. (B22/21 × 26) or S.B.C. (BA.15d/17)

Watts	Description	Bulb	Cap	Diameter mm.	List* Price s. d.
6	Instrument Lamp	Clear	S.B.C.	22	2 6
6	Side Lamp	Clear or Pearl	B.C.†	38	2 6
15	Interior Lamp	Clear or Pearl	B.C.	38 or 50	2 9
20	Interior Lamp	Clear or Pearl	B.C.	38	2 9
36	Headlamp	Clear	S.B.C.	38	4 0

|| Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the card insert.

† B.C. (B22/22)

Traction † Clear or Pearl. Series Burning

Nominal Watts	Rated Amps.	Volts	Cap	Dimensions		List* Price Clear or Pearl s. d.	
				Length mm.	Diameter mm.	s.	d.
40	0.35	100, 110, 120, 130	B.C.(B22/25 × 26) or E.S.(E27/25)	110	60	1	9
60	0.52			117.5	65		

* Purchase Tax see note below.

† With fusible cut-out E.S. cap 40 volt and 50 volt only. 2s. 5d. each.

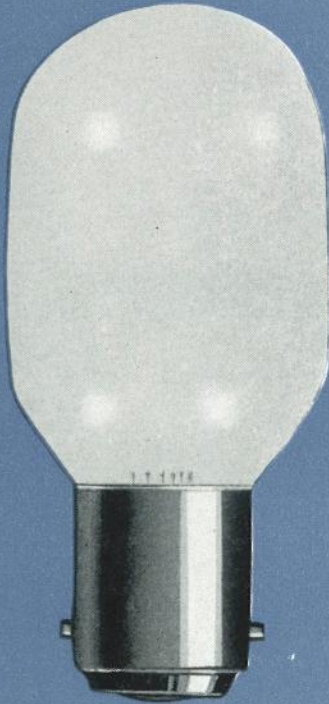
Traffic Signal Clear, Vacuum, Spiral Filament

Standard Caps:—B.C. (B22/25 × 26) or E.S. (E27/27)

Watts	Volts	Description	Dimensions			List* Price	
			Length mm.	Diameter mm.	L.C.L. mm.	s.	d.
60	110, 120, 210, 220, 230, 240, 250	Spiral Filament Bulbs marked 'TC'	108 (E.S.)	65	62	2	0

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE A on the card insert.

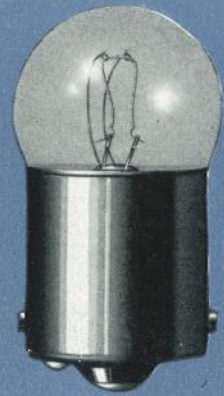
Aircraft and Miners'



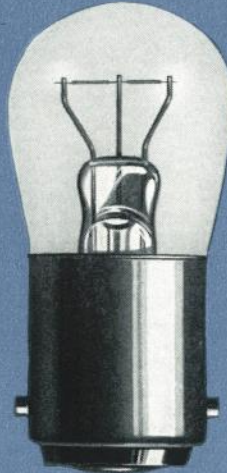
12v. 30w.
Aircraft Navigation



28v. 1-1w.
Aircraft Instrument



28v. 7w.
Aircraft General Service



3-75v. 1-0 and 1-0 amp.
Miner's Cap



4v. 0-8 amp.
Miner's Cap

Miners' Lamps

Lamp Code Number	Rating		Diameter mm.	Length mm.	Cap	List Price Each	
	Volts	Amps.				s.	d.
Argon—Double Filament Cap Lamp (Clear Bulb)							
13B	4-0	0-55 & 0-55	25	49	BA.15d/21	2	9
Krypton—Single Filament Cap Lamp (Clear Bulb)							
13A	3-6	1-0	18	31	E10	2	6
15A	4-0	0-8	18	31	E10	2	6
—	4-0	1-0	18	31	E10	3	0
Krypton—Double Filament Cap Lamp (Clear Bulb)							
14A	3-75	1-0 & 1-0	18	40	BA.15d/17	3	6
Krypton—Single Filament Handlamp (Pearl Bulb)†							
11B	2-5	1-5	18	43-5	953	3	0
12B	2-5	1-5	18	45-5	E14	3	0
11A	2-5	1-75	18	43-5	953	3	0
12A	2-5	1-75	18	45-5	E14	3	0
14B	4-0	0-75	18	45-5	E14	3	0
15B	4-0	0-75	18	47a	Peg	3	0
16A	4-0	1-0	18	45-5	E14	3	0

† Supplied with fuse in the cap. (a) With Pip.
E14 = E14/23 × 15 = S.E.S. E10 = E10/13 = M.E.S. 953 = Special S.C.C. BA.15d/17 or BA.15d/21 = S.B.C.
All the Miners' Lamps listed above are approved by the Mines Department and are exempt from Purchase Tax.

Aircraft

The lamps listed are of robust construction and designed to meet the special requirements of this service. The adoption of 28 volt supply on modern Civil Aircraft has necessitated the production of a complete range of 28 volt lamps, some of which are designed to withstand the known vibration conditions prevalent in jet aircraft.

In this range there is a lamp suitable for every purpose.

Miners'

The provision of safe and adequate lighting at the coal-face is essential for both the visual comfort of the miner and for efficient coal production.

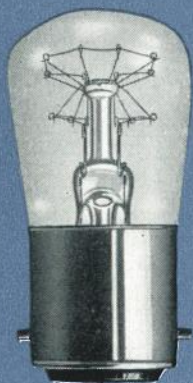
The problem of the manufacture of bulbs for this purpose has engaged the attention of our lamp engineers for many years and in consequence the efficiency of the miners' lamp has increased considerably since its conception. The use of the gas Krypton with which many of these lamps are filled, enables the highest possible light output to be obtained from the limited battery power available. The bulbs listed comprise types and ratings suitable for use in all makes of Miners' Cap and Hand lamps.

Aircraft								
Joint Service Number	Volts	Watts	Cap	Finish	Dimensions		List* Price s. d.	
					Length mm.	Diam. mm.		
General Service								
995-3282	28	7	S.B.C., S.C.C.	Clear	32.5	18	3 10B	
—	28	6	Festoon	"	38	11	6 6B	
—	28	12	S.B.C. or S.C.C.	"	46	25	8 8B	
—	28	24		"	56	38	5 8B	
—	28	36		"	56	38	6 1B	
995-2248	12	6	S.B.C.	"	32.5	18	1 5B	
995-2254	24	6	S.B.C.	"	32.5	18	1 6B	
Instrument and Indicator								
995-9118	28	1.1	Midget Flange	Clear	14.5	6	4 2B	
—	28	3	Side Clips	"	44.5	6.5	3 4C	
995-1284	28	3.5	M.E.S.	"	28.5	10	2 9B	
995-1271	28	3.5	M.C.C.	"	29	10	2 9B	
995-9112	12	1.2	Side Clips	"	38	6.5	2 2C	
995-9211	24	2.4	"	"	38	6.5	2 2C	
995-1254	12	6	Festoon	"	38	11	2 7B	
995-1256	24	6	"	"	38	11	2 6B	
995-1225	6.5	2.36	M.E.S.	"	23	11	7B	
995-3247	12	2.2	"	"	23	11	1 1B	
995-1230	24	2.8	"	"	27.5	15	1 6B	
995-1220	12	2.2	"	} Varnished	27.5	15	1 3B	
995-1231	24	2.8	"		Red	27.5	15	1 8B
995-2261	12	7	S.B.C.	Clear	32.5	18	3 0B	
995-1109	3	0.24	M.E.S.	"	23	11	1 0B	
995-1110	6	0.24	"	"	23	11	1 0B	
Navigation								
—	28	12	S.B.C. or S.C.C.	Clear	40	20	8 5B	
995-2431	28	24		"	"	56	35	5 8B
995-2445	28	40		"	"	56	35	7 6B
995-2272	12	10	S.B.C.	"	46	25	3 6B	
995-2276	24	10		"	"	46	25	4 6B
995-3217	12	20		"	"	57 max.	38 max.	4 0B
995-2431	28	24		"	"	57 max.	38 max.	4 6B
995-2401	12	30		"	Pearl	58	27	5 0B
995-2604	24	80		"	"	58	38	7 6B
Taxying								
995-2511	24	60	S.B.C.	Clear	56	38	6 0B	
Landing								
995-4717	26	240	Med. Pref.	Clear	95	60	29 0A	
995-9705	26	350	Large Pref.	"	118	75	33 0	
	26	420	" "	"	122	75	39 0	

* Purchase Tax must be added to the prices of all lamps in this column except the 350-watt and 420-watt Landing Lamps. The exact amount of purchase tax to be added to the list prices with suffixes 'A' and 'B' will be found in TABLES A and B respectively on the card insert. Purchase Tax at 22% must be added to list prices with the suffix 'C'.

Miners' see facing page

Indicator



Switchboard Indicator



Tubular Radio Panel



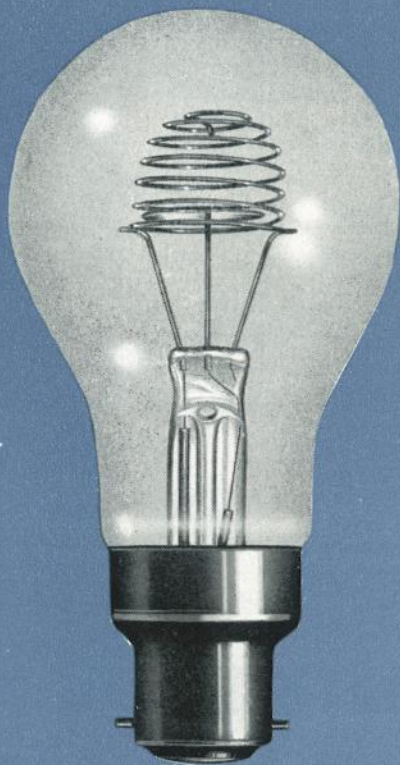
Round Radio Panel



Telewriter



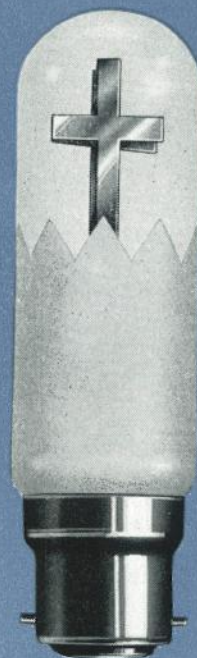
Telephone Visual



Neon Nightlight



Neon Indicator
Type 'I'



Neon Cruciform

Switchboard Indicator

These lamps are used on electric control panels and similar installations where visible light output has to be greater than that given by a neon indicator.

Telephone Visuals

It should be noted that these lamps have special caps as will be seen by the illustration. They are made to the exacting requirements of the British Post Office and comply with BS. 1050. They are used extensively in telephone switchboards.

Telewriter Lamps

These lamps are used for general 'indication' purposes particularly for mimic diagrams on indicator boards as used by British Railways for tracing paths of trains.

Radio Panel

The extensive range of Radio Panel Lamps has been developed to provide the radio mechanic with the correct replacement lamp for almost any type of receiver.

Neon

These lamps are used where light output is of secondary importance but where a steady bright glow and low power consumption are required.

The night light type is most suitable for sick rooms and children's nurseries; it is quite safe and gives just the required amount of light without being distracting.

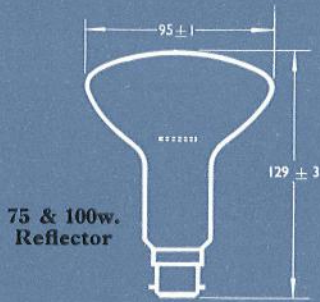
The indicator type of neon lamp is for use on domestic appliances such as cookers or refrigerators. It clearly indicates whether a circuit is open or closed.

Indicator Lamps									
Volts	Amps.	Cap	Filament	Dimensions		List Price			
				Length mm.	Diameter mm.	s.	d.		
Switchboard Indicator									
100/130 or 200/260†	—	B.C.	{ Staggered Wreath Double Tier }	56	28	2	6*		
* Purchase Tax must be added to list prices of Switchboard lamps. For the exact amount to be added see TABLE A on the card insert.									
† One lamp only is available in each of these voltage ranges, and will be marked 100/130 or 200/260 volts respectively. Lamps are marked 'Switchboard Indicator' and no wattage specified.									
NOTE: Switchboard lamps are available sprayed in standard colours (Sec. 5) at 2s. 10½d. list.									
Telephone Visuals									
6 12 17 24 50	0.04 0.10 0.045 0.10 0.10	}	Side Contact Plates and End Piece	{	No. 2 Metal No. 2 Carbon No. 2 Metal No. 2 Metal No. 2 Carbon	44	6.5	2	2‡
12 36 40 50	0.117 0.075 0.068 0.107									}	Side Contact Plates and End Piece	{	No. 2 Carbon	44	6.5	2	9‡
Telewriter									
24 24 50 50	0.05 0.10 0.05 0.10	}	M.E.S. or M.C.C.		Metal	33	11 max.	3	1‡
‡ Purchase Tax at 22% must be added to prices marked thus ‡.									
Radio Panel									
6 6 6.2 6.3 6.5 6.2 6.3 6.5	0.04 0.06 0.30 0.11 0.30 0.30 0.15 0.30	}	Round Bulb M.E.S. Cap	{	Bow	24 24 29 24 24 or 29 30 30 30	11 11 15 11 11 or 15 10 10 10	1	0‡ 0‡ 7‡ 7‡ 7‡ 7‡ 7‡ 7‡
6.2 6.3 6.5	0.30 0.30 0.30									}	Tubular Bulb M.E.S. Cap	{		24 or 29 30 30 30	11 or 15 10 10 10	1	0‡ 7‡ 7‡ 7‡
‡‡ Purchase Tax must be added to these prices. For the exact amount to be added see TABLE B on the card insert.									
Neon									
Nightlight type 'N'									
200/220 230/240 250/260	Watts 5	B.C.	—	125 max.	61 max.	4	6§		
Cruciform. Containing Cruciform, Letters, Numbers etc.									
200/220 230/240 250/260	5	B.C. or E.S.	—	106±3	30±1	7	6§		
Indicator Type 'I'									
200/260	0.5	B.C. S.B.C.	—	56 54	28 18	4	0§		

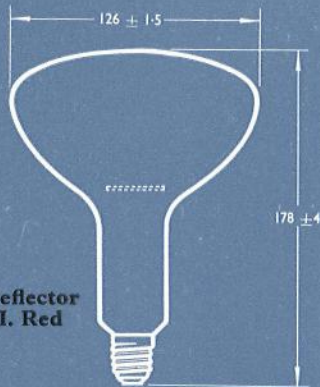
§ Purchase Tax not chargeable.

Lamp Outlines

Dimensions in millimetres



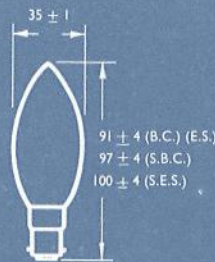
75 & 100w.
Reflector



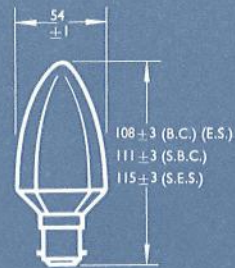
150w. Reflector
250w. I. Red



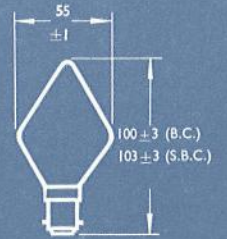
40 & 60w. Plain Olive



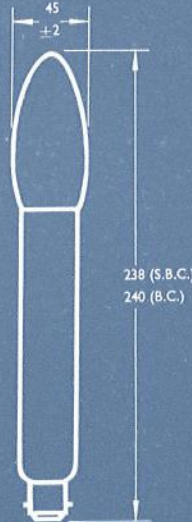
25w. Plain Olive



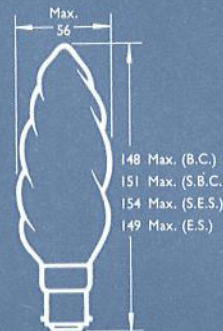
25, 40 & 60w. Gothic



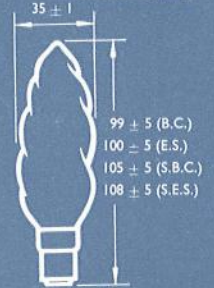
40 & 60w.
Round Olive



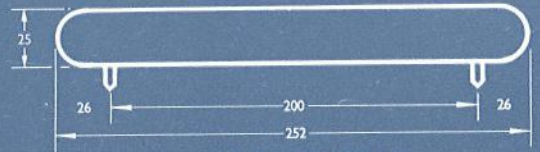
40 & 60w.
Extended Candle



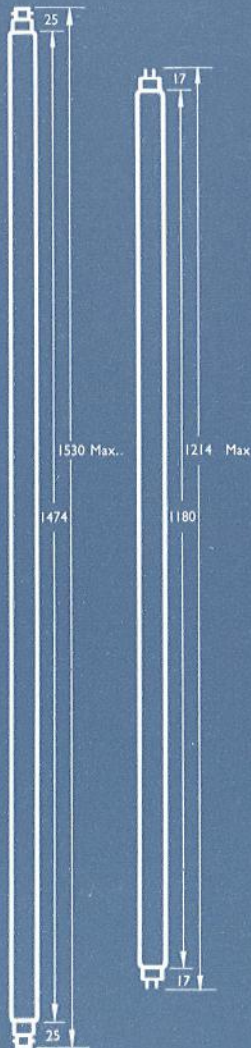
40 & 60w. Twisted Olive



25w. Twisted Olive

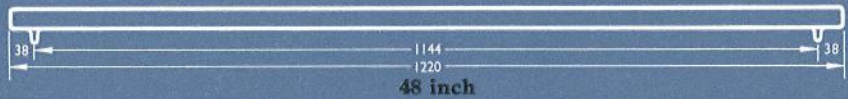


30 & 60w. Maxtrip

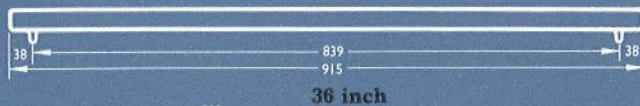


80w. (5 ft.) & 40w. (4 ft.)
Fluorescent

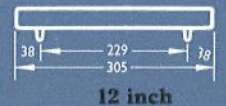
ARCHITECTURAL LIGHT TUBES



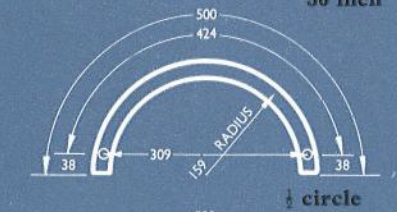
48 inch



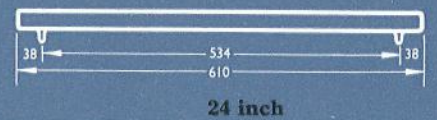
36 inch



12 inch



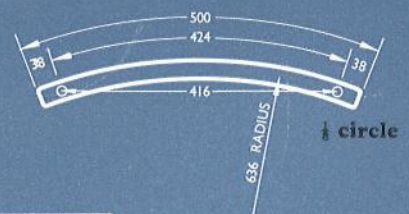
1/2 circle



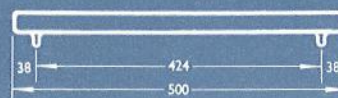
24 inch



1/4 circle



1/8 circle



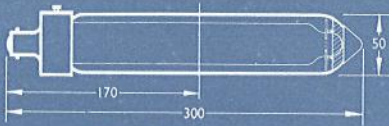
20 inch

Lamp Outlines

Dimensions in millimetres



45w. SO/H



60w. SO/H



85w. SO/H



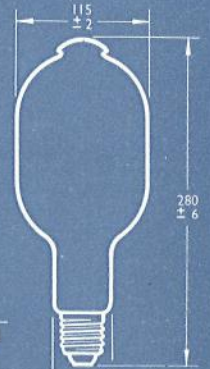
140w. SO/H



80w.
MB/U & MBF/U



125w.
MB/U & MBF/U



400w.
MBF/U



400w.

MA/V, MA/U or MA/H

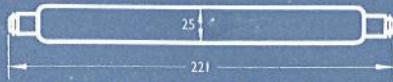


250w.

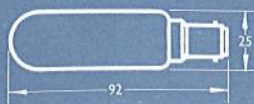
MA/V, MA/U or MA/H



30 & 60w. Double Cap Tubular



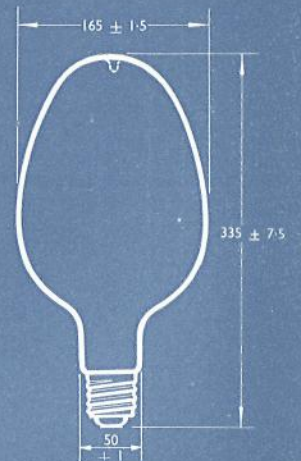
30w. Double Cap Tubular



25w. Single Cap Tubular



1000w. MA/H



400w. MAF/V

Lampholders

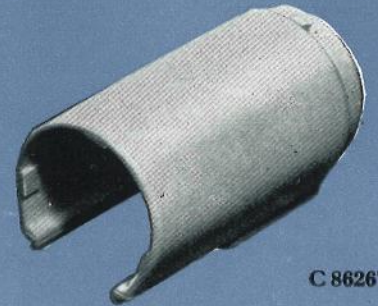
Catalogue No.	Description <i>(Prices and Full Details on Application)</i>
C 84456/7	Circular Fluorescent holder and supports
C 84164	Porcelain B.C. (Sodium Lamps)
C 87973	Neoprene sleeve for above
C 87723	G.E.S. Skirted (Tungsten Lamps)
C 84079	Bi-post (Studio Lamps)
C 87804	G.E.S. Unskirted (Tungsten Lamps)
C 88505	Medium Prefocus (Projector Lamps)
C 83131	Miniature Bi-pin (Miniature Fluorescent Lamps)
C 76551	B.C. Rubber Sleeve (Fluorescent Lamps)
C 86267	Fixed B.C. (Fluorescent Lamps)
C 86486	Medium Bi-pin Compact (Fluorescent Lamps)
C 83145	Medium Bi-pin (Fluorescent Lamps)
C 77969	Medium Bi-pin Rubber Sleeve (Fluorescent Lamps)
C 88542	} Pair of holders for 1-kW MA/H Lamp
C 88543	



C 77969



C 76551



C 86267



C 83131



C 86486



C 83145



C 87723



C 87804



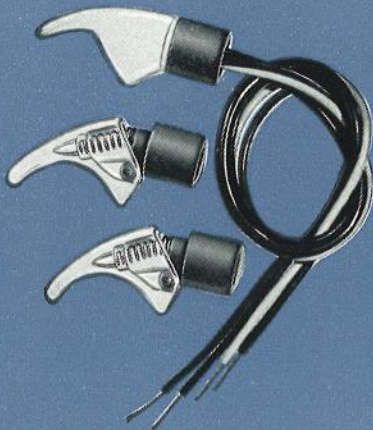
C 84079



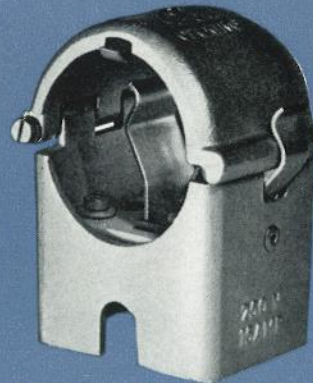
C 88505



C 84164 &
C 87973



C 84456/7



C 88542

G.L.S. Clear and Pearl Section 1

NOMINAL AVERAGE LUMENS THROUGHOUT LIFE*

Watts	VOLTS				
	200—260 Rated at 240	100—130 Rated at 110	60—75	35—55	25
15	112	133	—	—	—
25	200	228	246	262	299
40	390†	449	446	470	526
60	665†	759	747	777	849
75	880†	1000	—	—	—
100	1260†	1400	1395	1435	1535
150	1960	2230	2220	2260	—
200	2720	3090	3070	3160	—
300	4300	4950	4910	5030	—
500	7700	8960	8870	9020	—
750	12400	14270	—	—	—
1000	17300	19640	—	—	—
1500	27500	30220	—	—	—

* These values are intended to provide practical guidance for design purposes.

† Coiled Coil.

Fluorescent Section 7

Watts	Length	Class	Colour	Average Lumens*
125	8 ft.	MCFC/U	Warm White	7000
			Daylight	6750
			Natural	5375
			3500° White	7125
80	5 ft.	MCF/U MCFA/U MCFE/U	Warm White	4240
			Daylight	4080
			Natural	3200
			Colour Matching	3040
			Deluxe Warm White	2640
3500° White	4320			
40	4 ft.	MCF/U MCFA/U MCFE/U	Warm White	2280
			Daylight	2200
			Natural	1680
			Colour Matching	1600
			Deluxe Warm White	1440
3500° White	2320			
40	2 ft.	MCF/U MCFA/U MCFE/U	Warm White	1360
			Daylight	1320
			Natural	1080
			Colour Matching	1000
			Deluxe Warm White	760
3500° White	1360			
30	3 ft.	MCF/U MCFA/U MCFE/U	Warm White	1530
			Daylight	1470
			Natural	1170
			Colour Matching	1080
			Deluxe Warm White	960
3500° White	1560			
20	2 ft.	MCF/U MCFA/U MCFE/U	Warm White	900
			Daylight	800
			Natural	640
			Colour Matching	620
			Deluxe Warm White	460
3500° White	900			
15	1½ ft.	MCF/U MCFA/U MCFE/U	Warm White	540
			Daylight	555
			Natural	420
			Colour Matching	375
			Deluxe Warm White	330
3500° White	510			

* Through first 5000 hours life.

Silverlight Section 1

Lamp Watts	Nominal Average Lumens throughout Life
Coiled Coil	
40	370
60	630
100	1200
Single Coil	
150	1860
200	2580

Mercury Vapour Sections 9 & 10

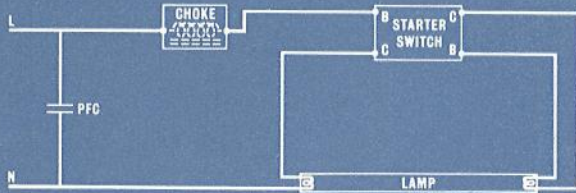
Watts	Average Lumen Output throughout Life
MA/V	
250	8750
400	15600
MA/U†	
250	7500
400	13200
MA/H	
250	7500
400	13200
MB/U	
80	2480
125	3875
MBF/U	
80	2480
125	3875
250	9250
400	16800

† In horizontal position. In vertical position 10% higher.

Sodium Vapour Section 9

Watts	Average Lumen Output throughout Life
45	2250
60	3420
85	5525
140	9100

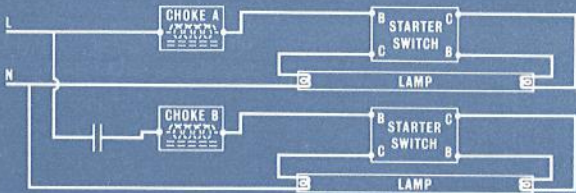
FLUORESCENT SWITCH START CIRCUITS



1

80w., 5 ft.
40w., 4 ft.
30w., 3 ft.
20w., 2 ft.

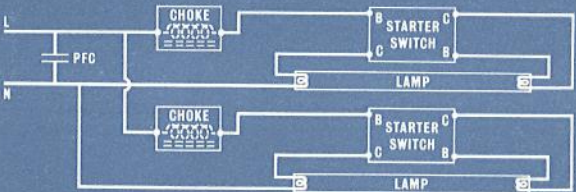
Switch Start single-lamp choke-controlled circuit shunt power factor correction to 0.85 lagging.



2

80w., 5 ft.

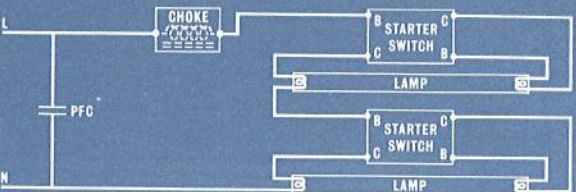
Switch Start phase displaced twin-lamp lead-lag circuit, with near unity power factor.



3

40w., 4 ft.

Switch Start two single-lamp choke-controlled circuits wired in parallel shunt power factor correction to 0.85 lagging.

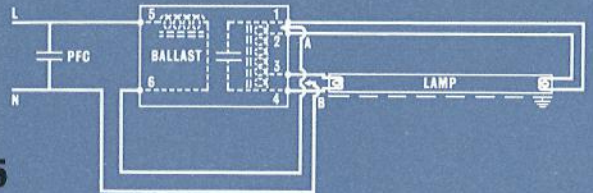


4

40w., 2 ft.

Switch Start circuit for two lamps in series controlled by one choke with shunt power factor correction to 0.85 lagging.

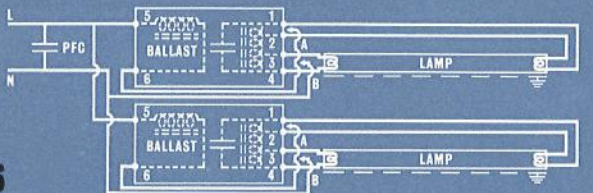
FLUORESCENT INSTANT START CIRCUITS



5

80w., 5 ft.
40w., 4 ft.

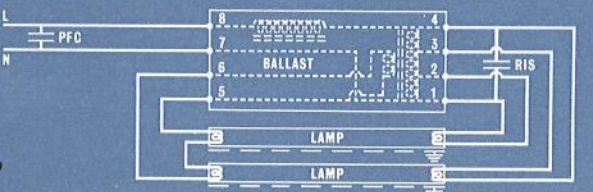
Instant Start single-lamp circuit employing combined choke/transformer ballast unit. Shunt power factor correction.



6

40w., 4 ft.

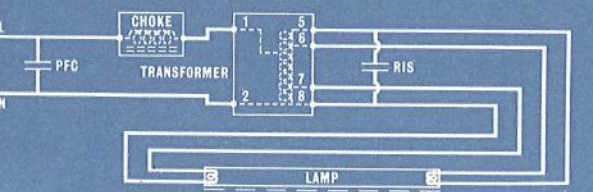
Instant Start two single-lamp circuits wired in parallel each employing a combined choke/transformer ballast unit. Shunt power factor correction to 0.85 lagging.



7

40w., 2 ft.

Instant Start circuit for two lamps in series controlled by one combined choke/transformer ballast unit. Shunt power factor correction to 0.85 lagging.



8

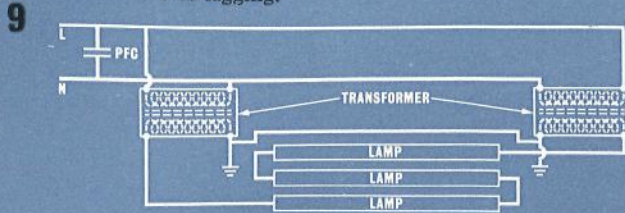
125w., 8 ft.

Instant Start single-lamp circuit employing separate choke and starting transformer. Shunt power factor correction to 0.85 lagging. This lamp need not be earthed.

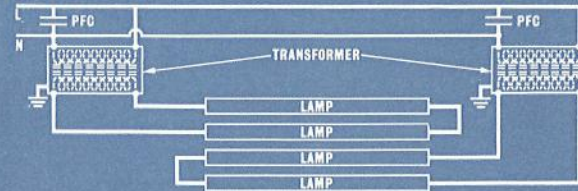
The instant start circuits listed above are for use with lamps having integral metal strip or silicone coated lamps in an earthed fitting. In low temperatures, dusty atmospheres, and where lamps are used remote from earthed metal, metal-stripped lamps are necessary.

120mA.
8 ft. 6 in.
Cold Cathode

Three cold cathode lamp circuits controlled by two transformers in tandem operating the lamps in series at 120mA. shunt power factor correction to 0.85 lagging.

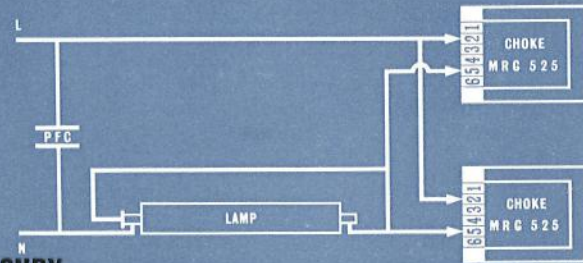
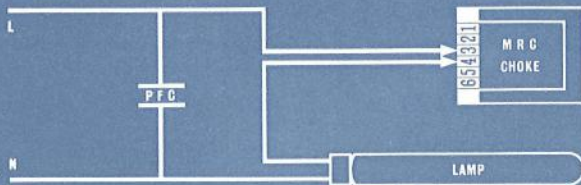


Four cold cathode lamp circuits employing two transformers each operating a pair of lamps in series at 120mA. shunt power factor correction to 0.85 lagging.



COLD CATHODE

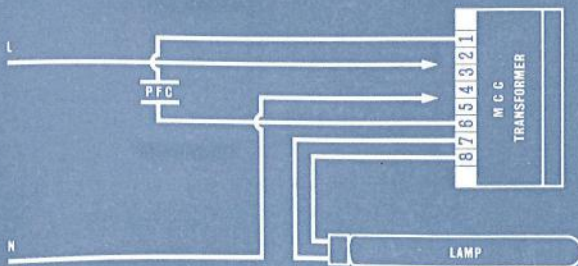
LAMP	TRANSFORMER	CAPACITORS	CIRCUIT NO.
8 ft. 6 in. lamps @ 120mA.	3 Lamp 230/240 Two MB 562	PL 28A/2/S	9
8 ft. 6 in. lamps @ 120mA.	4 Lamp 200/250 Two MB 530 or Two MB 563	Two PL 26	10



MERCURY

LAMP	CHOKE			CAPACITOR	
	100/120v.	190/230v.	215/225v.	100/120v.	190/255v.
400w.	MRG 509	MRG 501	MRG 502	C 82606	PL 28A/2/S
250w.	MRG 510	MRG 503	MRG 504	C 82604	PL 27B/1/S
125w.	—	MRG 505	MRG 506	—	PL 22A/3/S
80w.	—	MRG 507	MRG 508	—	PL 11C/4/S
1000w.	200/250v.			200/250v.	
	Two MRG 525 wired in parallel			C 82602	

SODIUM



LAMP	TRANSFORMER	CAPACITOR
	190/260v.	190/260v.
140w.	MCG 112	PL 31
85w.	MCG 113	PL 26
60w.	MCG 113	PL 26
45w.	MCG 113	PL 27B/1/S

Fluorescent Lamp Auxiliary Gear

Catalogue No.	Lamps	Voltage	Description	Circuit No.
MB 530	2—8 ft. 6 in. cold cathode	200/250	Transformer tapped	10
562	2 transformers in tandem for	230/240	Transformer	9
563	3—8 ft. 6 in. cold cathode	200/250	Transformer tapped	10
MC 208	125w. 8 ft.	230/250	Instant Start transformer	8
MK 129	2 × 40w. 2 ft. in series	230/240	Choke/Transformer unit	7
134	80w. 60 in.	230/240	do.	5
135	80w. 60 in.	240/250	do.	5
136	40w. 48 in.	200/210	do.	5 & 6
138	40w. 48 in.	230/240	do.	5 & 6
139	40w. 48 in.	240/250	do.	5 & 6
140	80w. 60 in.	220/230	do.	5
143	80w. 60 in.	200/210	do.	5
145	40w. 48 in.	220/230	do.	5 & 6
MRJ 201	40w. 48 in.	200/210	Choke	1 & 3
202	40w. 48 in.	210/220	do.	1 & 3
204	{ 40w. 48 in.	230/240	do.	1 & 3
	{ 30w. 36 in.	200/210	do.	1
205	{ 40w. 48 in.	240/250	do.	1 & 3
	{ 30w. 36 in.	210/220	do.	1
215	20w. 24 in.	200/210	do.	1
216	30w. 36 in.	240/250	do.	1
219	20w. 24 in.	230/240	do.	1
220	20w. 24 in.	240/250	do.	1
221	30w. 26 in.	230/240	do.	1
304	{ 80w. 60 in.	200/250	Tapped choke	1 & 2
	{ 40w. 24 in.	200/240	do.	4
306	125w. 96 in.	230/240	Choke	8
307	125w. 96 in.	240/250	do.	8

CAPACITORS

Catalogue No.	Capacity	Volt Working	Circuit No.
PL 11C/4/S	7.50 mfd.	250	1, 3, 4, 5, 6, 7
PL 12	3.25 mfd.	250	1 & 5
PL 13	4.50 mfd.	250	1
PL 26	13.00 mfd.	250	10
PL 27B/1/S	15.00 mfd.	250	8
PL 28A/2/S	20.00 mfd.	250	9
PL 51	7.00 mfd.	450	2
C 87079	0.02 mfd.	260	7
C 88507	0.02 mfd.	370	8

STARTERS

Catalogue No.	For use with	Type
ST 23	80w. 60 in. 40w. 24 in. 125w. 96 in.	Thermal Airbreak A.C./D.C.
ST 24	40w. 48 in.	
ST 25	30w. 36 in. 20w. 24 in. 15w. 18 in.	Thermal Airbreak A.C./D.C.
ST 26	80w. 60 in. 40w. 48 in. 30w. 36 in.	

C 77592—Starter sockets for all above type starters.

Note: All gear listed above is for operation on 50 cycle A.C. supply, and within 200/250v. range only. Details of auxiliary gear to operate on other voltages on application.

The Standard Fluorescent Circuits shown in Section 26 should be wired to the following gear components.

F SWITCH-START								HOT CATHODE			FX INSTANT-START					
Lamp	CHOKE				Capacitor	Starter	Circuit No.	Lamp	BALLAST				Capacitor	R.I.S. Capacitor	Circuit No.	
	200/210 v.	210/220 v.	230/240 v.	240/250 v.					200/210 v.	220/230 v.	230/240 v.	240/250 v.				
SINGLE-LAMP								SINGLE-LAMP								
80w. 5 ft.	MRJ 304	MRJ 304	MRJ 304	MRJ 304	PL 11C	ST 26	1	80w. 5 ft.	MK 143	MK 140	MK 134	MK 135	PL 11C		5	
40w. 4 ft.	MRJ 201	MRJ 202	MRJ 204	MRJ 205	PL 12	ST 26	1	40w. 4 ft.	MK 136	MK 145	MK 138	MK 139	PL 12		5	
30w. 3 ft.	MRJ 204	MRJ 205	MRJ 221	MRJ 216	PL 12	ST 26	1									
20w. 2 ft. 15w. 1½ ft.	MRJ 215	MRJ 221	MRJ 219	MRJ 220	PL 13	ST 25	1									
TWO-LAMP								TWO-LAMP								
80w. 5 ft.	Two MRJ 304	Two MRJ 304	Two MRJ 304	Two MRJ 304	PL 51	Two ST 26	2	80w. 5 ft.	Two MK 143	Two MK 140	Two MK 134	Two MK 135	Two PL 11C		5 + 5 connected in parallel	
40w. 4 ft.	Two MRJ 201	Two MRJ 202	Two MRJ 204	Two MRJ 205	PL 11C	Two ST 26	3	40w. 4 ft.	Two MK 136	Two MK 145	Two MK 138	Two MK 139	PL 11C		6	
40w. 2 ft.	MRJ 304	MRJ 304	MRJ 304	—	PL 11C	Two ST 23	4	40w. 2 ft.	—	—	MK 129	—	PL 11C	C 87079	7	
								125w. 8 ft.	—	—	Two MC208 Two MRJ 306	—	Two PL 27	Two C 88507	8 + 8 connected in parallel	

THE FOLLOWING CONNECTIONS SHOULD BE MADE IN ACCORDANCE WITH SUPPLY VOLTAGE

Connections for Tapped Units	Supply Voltage	Supply Leads to	Link Terminals
Circuit No. 1 MRJ 304	200/210 220/230 240/250	1 and 4 1 and 3 1 and 3	2 and 3 2 and 3 2 and 4
Circuit No. 2 MRJ 304 (Choke A) MRJ 304 (Choke B)	200/210 220/230 240/250 200/210 220/230 240/250	1 and 4 1 and 3 1 and 3 1 and 3 1 and 3 1 and 3 1 and 4	2 and 3 2 and 3 2 and 4 2 and 4 2 and 3 2 and 3 2 and 3
Circuit No. 4 MRJ 304	200 210/220 230/240	1 and 4 1 and 3 1 and 3	2 and 3 2 and 3 2 and 4
Circuit No. 10 MB 530 or MB 563	200 210 220 230 240 250	3 and 4 2 and 4 1 and 4 3 and 5 2 and 5 1 and 5	

THE FOLLOWING EXTERNAL CONNECTIONS ARE NECESSARY FOR INSTANT START BALLASTS

		LEAD A TO	LEAD B TO
Circuit No. 5 MK 143 MK 140 MK 134 MK 135	80w.	omit 2 2 1	6 3 4 4
Circuit No. 5 MK 136 MK 145 MK 138 MK 139	40w.	2 1 1 1	3 4 4 4

3-lamp fittings are wired with one single circuit and one 2-lamp circuit connected in parallel.
4-lamp fittings are wired with two 2-lamp circuits connected in parallel.

A.E.I. Lamp and Lighting Co Ltd

■ Regional Headquarters



A.E.I. Lamp and Lighting Company Limited

Rugby, Warwickshire*

	<i>Telegraphic Address</i>	<i>Telephone Number</i>		<i>Telegraphic Address</i>	<i>Telephone Number</i>
Lamp Department			North-East Region		
	<i>Manager : Mr. W. G. Huston</i>			<i>Manager : Mr. G. W. Natrass</i>	
44 Fitzroy Rd., N.W.1*	LAMPLITE N.W.I	Primrose 7750	■ 46 Wellington Street, Leeds	LAMPLITE	Leeds 31541/4
Lighting Department			North-West Region		
	<i>Manager : Mr. G. W. M. Phillips</i>			<i>Manager : Mr. F. C. Tyrrell</i>	
44 Fitzroy Rd., N.W.1*	LAMPLITE N.W.I	Primrose 7750	■ 46 Wellington Street, Leeds	LAMPLITE	Leeds 31541/4
Publicity Department			Including Isle of Man		
	<i>Manager : Mr. O. W. J. Farmer</i>			<i>Manager : Mr. F. C. Tyrrell</i>	
18 Bedford Square, W.C.1	LAMPLITE WESTCENT	Langham 7056	■ Trafford Park Road, Trafford Park, Manchester, 17	LAMPLITE TRAFFORD PARK	Trafford Park 3281
Southern Region			Scotland and N. Ireland Region		
	<i>Manager : Mr. E. J. Melville</i>			<i>Manager : Mr. J. M. Anderson</i>	
■ 132/135 Long Acre, W.C.2	LAMPLITE RAND	Covent Garden 2831	■ 74 Waterloo Street, Glasgow, C.2	LAMPLITE	Central 4295/8
44 Fitzroy Road, N.W.1	LAMPLITE N.W.I	Primrose 7750	53 Pitt Street, Glasgow, C.2	GLASGOLITE	City 6585
Brent Road, Southall, Middx.	SPEDILAMP	Southall 2281	12 Thistle Street, Edinburgh	LAMPLITE	Caledonian 3888/9
133 Fitzroy Street, Cambridge	LAMPLITE	Cambridge 54370 Cambridge 57366	17 Baltic Street, Dundee	LAMPLITE	Dundee 5600
Culver Street, Colchester	LAMPLITE	Colchester 2843	12 Alfred Street, Belfast	LAMPLITE	Belfast 29368/9
17 Dorset Place, Hastings	LAMPLITE	Hastings 2734	South-West Region		
Bedford House, Bedford Road, Guildford	LAMPLITE	Guildford 67742		<i>Manager : Mr. S. G. Turner</i>	
220 High Road, Leytonstone, E.11	LAMPLITE E.I.I	Maryland 4784/5	■ National Provincial Bank Buildings, West Bute St., Cardiff	LAMPLITE	Cardiff 27495
St. Andrew Street, Norwich	LAMPLITE	Norwich 22541	6 Gwennyth Street, Cathays, Cardiff	SPEDILAMP	Cardiff 20795
90 St. Aldates, Oxford	LAMPLITE	Oxford 4170	63 Wind Street, Swansea	LAMPLITE	Swansea 50430 and 50439
54 St. Vincent Street, Southsea, Portsmouth	LAMPLITE	Portsmouth 4383	1/5 Trinity Street, Bristol, 2	LAMPLITE	Bristol 51494
74 Oxford Road, Reading	LAMPLITE	Reading 2700	Mary Arches Street, Exeter	LAMPLITE	Exeter 55749
33 Carlton Crescent, Southampton	LAMPLITE	Southamp'n 27401/2/3	Chapel Street, Regent Street, Plymouth	LAMPLITE	Plymouth 61915
Midland Region			Regional Headquarters		
	<i>Manager : Mr. R. P. B. Voaden</i>				
■ 26/28 Holloway Head, Birmingham, 1	LAMPLITE	Midland 7921/5			
5 Campbell Street, Leicester	LAMPLITE	Granby 291/2			
Stoke Road, Stoke-on-Trent	TRENTLITE	Stoke-on-Trent 47537/8			
17 Grosvenor Street, Cheltenham	LAMPLITE	Cheltenham 2776			
College Street, Northampton	LAMPLITE	Northampton 2981			
71/73 Lower Parliament Street, Nottingham	LAMPLITE	Nottingham 43588/9			

*With effect from 1st January, 1958, these addresses become—Melton Rd., Leicester. Telegraphic Address: Asteroidal Leicester. Telephone No. Leicester 61531.

GENERAL INFORMATION

Standard Packing Quantities

Watts	Clear or Pearl Coiled Coil			Clear or Pearl Single Coil			Silverlight			Pearl Pink		
	Each s. d.	25 £ s. d.	50 £ s. d.	Each s. d.	25 £ s. d.	50 £ s. d.	Each s. d.	25 £ s. d.	50 £ s. d.	Each s. d.	25 £ s. d.	50 £ s. d.
15	—	—	—	1 6½	1 18 6½	3 17 1	—	—	—	—	—	—
25	—	—	—	1 6½	1 18 6½	3 17 1	—	—	—	—	—	—
40	1 9	2 3 9	4 7 6	1 4½	1 14 4½	3 8 9	2 0	2 10 0	5 0 0	—	—	—
60	1 9	2 3 9	4 7 6	1 4½	1 14 4½	3 8 9	2 0	2 10 0	5 0 0	1 7½	2 0 7½	4 1 3
75	2 1½	2 13 1½	5 6 3	1 10	2 5 10	4 11 8	—	—	—	—	—	—
100	2 1½	2 13 1½	5 6 3	1 10	2 5 10	4 11 8	2 4½	2 19 4½	5 18 9	2 1	2 12 1	5 4 2
150	—	—	—	2 7	3 4 7	6 9 2	3 1	3 17 1	7 14 2	3 1	3 17 1	7 14 2

In the table above are given the Standard Packing Quantities for General Lighting Service lamps from 15 watt to 150 watt in the voltage range 200-260.

The Ready Reckoner given for such quantities shows list price totals and the applicable purchase tax must be added.

Lamp Groups

For discount and similar purposes all electric lamps have been divided into the following groups. The convenience of this classification has promoted its use throughout the trade.

Groups 1 and 9. Filament lamps for general lighting purposes up to 300 volts: Filament lamps for special purposes in 25 to 300 volts (excluding aircraft and trolleybus lamps), projector type lamps in all voltages. Discharge lamps including Fluorescent and Glow discharge lamps. Christmas Tree decoration sets and lamps.

Group 2. Lamps of Battery type in 24 volts and below (28 volts and below for certain aircraft purposes, 40 volts and below for trolleybuses) except those in groups 1, 4, 5, 6, 7, 10 and Flashlamps.

Group 3. Flashlamps

Group 4. Cycle Dynamo

Group 5. Miners'

Group 7. Telephone

Group 10. Radio Panel

How to order lamps

When ordering lamps, the following particulars should be stated:—

- Quantity required** .. If possible, order standard packing quantities.
- Voltage** ..
- Wattage** .. or amperage.
- Service** .. e.g. General Lighting, Decorative, Car etc.
- Type or Class** e.g. Longlite, A 1, MB/U etc., where applicable.
- Finish** .. e.g. Pearl, Silverlight, Sprayed etc.
- Filament** .. e.g. Coiled-coil, Biplane, Axial etc.
- Cap** .. e.g. B.C., Prefocus P 22d/21 etc.

Example.

Quantity 50, 240 volt 60 watt G.L.S. lamps, pearl, coiled-coil fil., B.C. cap.

Delivery Conditions

Packing and delivery of lamps is free of charge.

This Company will credit or replace lamps broken in transit between their store and the customer's premises provided they are advised at once and the lamps returned, carriage paid, within seven days of date of dispatch, the Company's dispatch note number to be quoted. The Company will not accept responsibility for safe custody of such returned lamps. Claims for transportation and breakage allowance can be entertained by the Company only on their own consignments.

Amendments

Lamp Price Reduction

4w. 6in. Fluorescent Tube (Section 7)

With effect from 5th September, 1957, the list price of the above tube in Warm White, Daylight, Natural, Colour Matching, or De Luxe Warm White, is reduced from 15/- to 11/6.

125w. 8ft. Fluorescent Tube (Section 7)

With effect from 5th September, 1957, the list price of the above tube in Warm White, Natural or 3500°K White is reduced from 25/- to 20/-.

Fitting Price Increase

Mazda Circular Fluorescent Fitting (Section 8)

Since going to press, the price of the circular fitting as above has been increased from £8 : 1s. : 0d. to £8 : 10s. : 3d. complete with gear but less lamp.

A.E.I. LAMP AND LIGHTING CO LTD

LAMP CATALOGUE

AL154
ND/8/57

TABLE A
Lamps in Groups 1 and 9

(August, 1957)

LIST PRICE				Tax to be added		LIST PRICE				Tax to be added	
Over		Not Over				Over		Not Over			
s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
1	1	1	3	3		13	0	13	3	2	8½
1	3	1	5½	3½		13	3	13	6	2	9½
1	5½	1	8	4		13	6	13	9	2	10
1	8	1	10	4½		13	9	14	0	2	10½
1	10	2	0	5		14	0	14	3	2	11½
2	0	2	2½	5½		14	3	14	9	3	0
2	2½	2	6	6		14	9	15	0	3	1
2	6	2	8	6½		15	0	15	3	3	1½
2	8	2	10½	7		15	3	15	6	3	2½
2	10½	3	0	7½		15	6	15	9	3	3
3	0	3	3	8		15	9	16	0	3	3½
3	3	3	6	8½		16	0	16	3	3	4
3	6	3	8½	9		16	3	16	6	3	4½
3	8½	3	10	9½		16	6	16	9	3	5
3	10	4	1	10		16	9	17	0	3	6
4	1	4	3½	10½		17	0	17	3	3	6½
4	3½	4	6	11		17	3	17	6	3	7
4	6	4	8½	11½		17	6	17	9	3	8
4	8½	4	11	1	0	17	9	18	0	3	8½
4	11	5	1½	1	0½	18	0	18	3	3	9
5	1½	5	4	1	1	18	3	18	6	3	9½
5	4	5	6	1	1½	18	6	19	0	3	11
5	6	5	8½	1	2	19	0	19	3	3	11½
5	8½	5	11	1	2½	19	3	20	0	4	0½
5	11	6	2	1	3	20	0	21	0	4	5
6	2	6	5	1	3½	21	0	22	0	4	6
6	5	6	8	1	4	22	0	22	6	4	7½
6	8	6	11	1	5	22	6	23	0	4	8½
6	11	7	3	1	5½	23	0	24	0	4	11
7	3	7	7	1	6½	24	0	25	0	5	1½
7	7	7	9	1	7	25	0	26	0	5	4
7	9	8	0	1	8	26	0	27	0	5	7
8	0	8	3	1	8½	27	0	28	6	5	10
8	3	8	6	1	9	28	6	30	0	6	2
8	6	8	9	1	9½	30	0	31	0	6	4
8	9	9	0	1	10	31	0	32	0	6	7
9	0	9	6	1	11	32	0	33	0	6	9
9	6	9	9	2	0	33	0	34	0	7	0
9	9	10	0	2	0½	34	0	35	0	7	2
10	0	10	3	2	1	35	0	36	0	7	5
10	3	10	6	2	1½	36	0	37	0	7	7
10	6	10	9	2	2	37	0	38	0	7	10
10	9	11	0	2	2½	38	0	39	0	8	0
11	0	11	6	2	3	39	0	40	0	8	3
11	6	11	9	2	4½	40	0	41	0	8	5
11	9	12	0	2	5	41	0	42	0	8	8
12	0	12	3	2	5½	42	0	43	0	8	10
12	3	12	6	2	6½	43	0	44	0	9	1
12	6	12	9	2	7	44	0	45	0	9	3
12	9	13	0	2	8						

TABLE B
Lamps in Groups 2, 4 and 10

LIST PRICE				Tax to be added	
Over		Not Over			
s.	d.	s.	d.	s.	d.
			7		1½
	5		11		2
	7		0		2½
	11	1	3		3
1	0	1	6		3½
1	3	1	9		4
1	6	1	11		4½
1	9	1	2		5
1	11	2	4		5½
2	2	2	7		6
2	4	2	9		6½
2	7	3	0		7
2	9	3	5		8
3	0	3	8		8½
3	5	3	11		9
3	8	3	2		9½
3	11	4	5		10
4	2	4	8		11
4	5	4	2		0
4	8	5	5	1	1
4	11	5	8		2
5	2	5	2	1	2
5	5	6	5		3
5	8	6	8		4
6	2	6	2	1	4
6	5	7	5		5½
6	8	7	8		
6	11	7	11		
7	2	7	2		

LAMP GROUP CLASSIFICATIONS
OVERLEAF

PURCHASE TAX
 To assist retailers setting direct to the public, Tables A and B show the fixed amount which must be added to the list price of lamps which are subject to Purchase Tax. These amounts have been agreed by the Central Price Regulation Committee.

LAMP CLASSIFICATIONS



Group 1		Section	Group 2		Section
Aircraft Landing	..	22	Aircraft Lamps (except	..	22
Architectural	..	3	landing and certain indi-	..	22
Circle	..	4	cator)	..	22
Clear (G.L.S.)	..	1	Bus & Trolley Bus	..	21
Colour Sprayed (G.L.S.)	5		Motor Headlamps	17 & 18	
Fluorescent Blue	..	2	Motor Side & Tail	..	19
5mm. Round Bulb	..	2	Motor Stop, Indicator		
Decorative Sets & Lamps	5		& Festoon	..	19
Hospital Theatre	..	13	Group 3		
Orange Red	..	6	Flashlight Lamps	..	20
Navigation	..	2	Group 4		
Non	..	23	Cycle Dynamo	..	20
Orange (G.L.S.)	..	1	Group 5		
Orange Pink (G.L.S.)	..	1	Miners'	..	22
Photo-pearl, Photo-flood	14		Group 7		
Photo-enlarger	..	14	Certain Aircraft	Indi-	
Projector Class A1	..	11	cator	..	22
Projector Class A3, B1,			Telephone	..	23
B2, E & F	..	12	Group 9		
Projector Class G	..	13	Fluorescent	..	7 & 8
Projector Spotlight &			Mercury Vapour	9 & 10	
Floodlight	..	6	Sodium Vapour	..	9
High Service	..	2	Group 10		
Non	..	5	Radio Panel	..	23
Overlight (G.L.S.)	..	1	Certain Aircraft	Indi-	
Radio (Photographic)	..	14	cator	..	22
Switchboard Indicator	23		Unclassified		
Theatre Spotlight	..	13	Cold Cathode	..	7
Direction	..	21	Electronic Flash	..	15
Traffic Signal	..	21	Photoflash	..	16
Spherical	..	3			
Spherical Floodlight	..	13			

LAMP LIFE GUARANTEE

Fluorescent tubes type MCF/U within the range 15w. to 125w.

Any lamp failing within twelve months from the date of purchase by the user (or prior to 3000 hours burning, whichever is the shorter) except through misuse will be replaced free of charge.

EXTRAS

Extras for Special Finishing and Non-standard Caps

Colour Spraying and External Frosting

The following extra charges will be made for Colour Spraying or Frosting Group 1 lamps not thus listed in this catalogue.

	Price Each	
	List	Extra
	s.	d.
Group 1 lamps up to 150w. (inclusive) ..	1	0
Group 1 lamps over 150w. ..	2	0
Overfrosting		
Group 1 lamps of any listed voltage ..	7	0

Caps

The following extras will apply when the caps listed below are fitted to quantities of less than 1000 identical lamps of Group 1, in place of the listed standard cap(s).

1) B.C., E.S., S.B.C., S.E.S., S.C.C., C.C., 3-pin B.C. or Bosch ..	1	0
2) G.E.S., Medium Prefocus, Pathe or Clamp Caps ..	2	0
3) Bell and Howell 38 or 46 ..	2	0
4) Large Prefocus Cap ..	3	0
5) Extras for 1000 and over identical lamps ..		

on appl'n