

MAZDA

THE NATION'S LIGHT



THE BRITISH THOMSON-HOUSTON COMPANY, LIMITED.

**PRICES APPLY ONLY IN
GREAT BRITAIN AND
NORTHERN IRELAND.**

MAZDA FLUORESCENT LAMP 80w. 200/250v. 60 ins.

MAZDA FLUORESCENT LAMP

(80 watt—200/250 volt for use on Alternating Current only)

THE 80 watt Mazda Fluorescent Lamp offers the opportunity, for the first time, of obtaining daylight quality at high levels of illumination, efficiently and at reasonable cost, without discomfort from heat.

The Lamp is a slender 5 ft. tube of glass which provides a richly glowing light from its entire surface. Coloured objects can be seen in all the vividness of their outdoor appearance.

The light is produced through the agency of invisible radiation acting on the fluorescent powder coated on the inside of the tube.

EFFICIENCY. The lamp has an initial efficiency of 35 lumens per watt. This is approximately three times that of the ordinary gasfilled lamp, and more than five times that of a gasfilled lamp with daylight bulb.

OPERATING TEMPERATURE. It is quite cool to the touch and has a normal temperature rise of approximately 25°C.

APPLICATIONS.

The lighting field for this new lamp is virtually unlimited. In view, however, of the present day circumstances it can best be used as an industrial tool to increase the production of essential commodities, largely by enabling an operator to release to the full whatever natural skill he possesses. Because of the ability of the MAZDA fluorescent lamp to provide daylight in blacked out factories, to reduce glitter and direct glare to negligible proportions, and to provide light of the right quality and quantity, it has proved itself to be the ideal light source for wartime industrial lighting.

Watts	Caps	Approximate Dimensions						A.C. Voltages	Initial Light Output	Colour	Price each
		Diameter		Overall Length		Arc Length					
		m/m.	ins.	m/m.	ins.	m/m.	ins.				
80	{ B.C. (B 22/25 × 26)	38	1.50	1524	60.00	1455	57.28	{ 200/220 230/250	{ Lumens 2800	Day-light	36 6

IMPORTANT NOTE:—The Mazda Fluorescent Lamp is made to operate only with control gear manufactured or approved by The British Thomson-Houston Company, Ltd.

PRICE ADVANCES

MERCRA LAMPS			
Watts	Cap	PRICES	
		From s. d.	To s. d.
80	} 3-pin B.C. {	25 0	26 6
125		30 0	32 0
250	} G.E.S. {	37 6	40 0
400		40 0	44 0

MERCRA FLUORESCENT LAMPS			
Watts	Cap	PRICES	
		From s. d.	To s. d.
80	} 3-pin B.C. {	32 6	34 6
125		40 0	42 6
400 (Iso-Thermal)	} G.E.S. {	55 0	58 6

MERCRA ULTRA-VIOLET LAMP			
Watts	Cap	PRICE	
		From s. d.	To s. d.
125	3-pin B.C.	47 6	50 6

SODRA LAMPS							
Watts	Cap	PRICES					
		Without Jacket		With Detachable Jacket Clear		With Detachable Jacket Natural Colour Special Filter Glass	
		From s. d.	To s. d.	From s. d.	To s. d.	From s. d.	To s. d.
45	} B.C. (Ceramic) {	32 6	34 9	41 0	43 9	49 6	52 9
60		40 0	42 9	50 0	53 0	60 0	64 0
85		50 0	53 0	61 6	65 6	73 0	77 9
140		65 0	69 6	78 6	83 9	92 0	98 0

PURCHASE TAX MAZDA Lamps—Group I and BTH Pearl Lamps (Type B) Group VIII Up to and including 250 watts

In the case of lamps in the above categories sold to the Trade or Trade Users at a discount, Purchase Tax must be charged at the rate of **26% of the Current List Price.**

When sold at List Price, the amount of Purchase Tax to be added by the Reseller, by agreement with the Central Price Regulation Committee, is shown in the schedule below.

LIST PRICE	PURCHASE TAX	LIST PRICE	PURCHASE TAX
Over 8d. and not exceeding 1/5	3d.	Over 5/6 and not exceeding 6/-	1/7
.. 1/5 1/8	5d.	.. 6/- 6/6	1/8
.. 1/8 1/11	6d.	.. 6/6 6/9	1/9
.. 1/11 2/4	7d.	.. 6/9 7/6	2/-
.. 2/4 2/9	8d.	.. 7/6 8/-	2/1
.. 2/9 3/3	10d.	.. 8/- 8/6	2/3
.. 3/3 3/6	11d.	.. 8/6 8/9	2/4
.. 3/6 3/9	1/-	.. 8/9 10/-	2/7
.. 3/9 4/3	1/1	.. 10/- 10/9	2/10
.. 4/3 4/6	1/2	.. 10/9 14/6	3/9
.. 4/6 4/9	1/3	.. 14/6 15/-	3/11
.. 4/9 5/-	1/4	.. 15/- 16/-	4/2
.. 5/- 5/6	1/5	.. 16/- 16/9	4/4
		.. 16/9 21/9	5/8

NOTE.—Purchase Tax on Group II lamps must be charged at the rate of 22% of the Current List Price.

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THE BRITISH THOMSON-HOUSTON COMPANY, LTD.

Electrical Engineers and Manufacturers,

LONDON - - - Crown House, Aldwych, W.C.2.

Telephone : Temple Bar 8040. Telegrams : Asteroidal, Estrand, London.

TRADE COUNTERS AND STORES

Crown House, Aldwych, W.C.2 - - Temple Bar 1343

3-7, Wenlock Road, City Road, N.1. - Clerkenwell 2822-6

BELFAST ..	12 Alfred Street, Belfast 24523	ILFORD	23 & 25 Green Lane Ilford 2561
BIRMINGHAM ..	10 and 11 Snow Hill Central 8301	LEEDS	46 Wellington Street Leeds 31541
BLACKBURN ..	"Old Bank," Old Bank Street, King Street Blackburn 7093	LEICESTER ..	5 Campbell Street Leicester 22811
BLACKPOOL ..	4 and 5 Cedar Square Blackpool 2853	LIVERPOOL ..	27-29 Stanley Street Bank 5700
BOURNEMOUTH	7 Haviland Road, Boscombe Boscombe 2038	MANCHESTER	King's House, 42 King Street West Blackfriars 2691/6
BRADFORD ..	7 Millergate. Bradford 1205	MIDDLES- BROUGH	Post Office Buildings, Mar- ton Road Middlesbrough 2476
BRISTOL ..	119 Victoria Street Bristol 20111	NEWCASTLE-ON- TYNE	Ellison Buildings, Ellison Place Newcastle 25040
CAMBRIDGE ..	58 King Street Cambridge 54370	NORTHAMPTON	College Street Northampton 2981
CARDIFF ..	Jotham's Buildings, 26-27 St. Mary Street Cardiff 7171/3	NORWICH ..	Cambridge House, 26 Tomb- land Norwich 2541
CHELTENHAM	17 Grosvenor Street Cheltenham 2776	NOTTINGHAM ..	King's Place, Stoney Street Nottingham 2061
CHESTER ..	5 Boughton. Chester 2746	OXFORD ..	90 St. Aldates Oxford 4170
COLCHESTER ..	Culver Street Colchester 2843	PLYMOUTH ..	Farley Chambers, Station Road, Millbay Plymouth 4837
CROYDON ..	54 Selsdon Rd., Sth. Croydon Croydon 5633	PORTSMOUTH	54 St. Vincent Street Portsmouth 4383
DUBLIN	Mazda House, 25 Suffolk Street Dublin 21379	READING ..	74 Oxford Road Reading 2700
DUNDEE ..	17 Baltic Street Dundee 5600	SHEFFIELD ..	Mazda Buildings, Campo Lane Sheffield 23086
EDINBURGH ..	130 George Street Edinburgh 30896	SOUTHAMPTON	6 West Street Southampton 6209
GLASGOW ..	53 Pitt Street Central 4331	STOKE-ON- TRENT	King's Chambers, Kingsway Stoke-on-Trent 48768
GUILDFORD ..	Bedford House, Bedford Road Guildford 2788	SWANSEA ..	5 Northampton Gardens
HASTINGS ..	17 Dorset Place Hastings 2734	TREFOREST ..	Treforest Trading Estate, nr. Pontypridd Taffs Well 165
HUDDERSFIELD	7 Brook Street Huddersfield 3291	WATFORD ..	Bridle Path, Watford Junc- tion Watford 5885
HULL	2 Prince's Dock Chambers, Prince's Dock Street Hull 36241		



Works : RUGBY, WILLESDEN, COVENTRY, BIRMINGHAM, CHESTERFIELD.

DELIVERY CONDITIONS

Within Free Delivery Areas

Any number of Lamps in ALL Groups may be Packed and Delivered FREE within :—

- (a) Twenty miles radius of G.P.O., London :
- (b) Ten miles radius of G.P.O. at :

Aberdeen	Chesterfield	Huddersfield	Portsmouth
Accrington	Colchester	Hull	Preston
Ashford	Colwyn Bay	Inverness	Reading
Aylesbury	Cork	Ipswich	Rhyl
Barrow	Coventry	Kendal	Rotherham
Bath	Croydon	Lancaster	Rugby
Bedford	Darlington	Leeds	Salisbury
Belfast	Derby	Leicester	Sheffield
Birkenhead	Doncaster	Lincoln	Southampton
Birmingham	Dorchester	Liverpool	Southend-on-Sea
Blackburn	Dublin	Llandudno	Southport
Blackpool	Dundee	Luton	South Shields
Bournemouth	Eastbourne	Maidstone	Stockton-on-Tees
Bradford	Edinburgh	Manchester	Stoke
Brighton (incl. Lewes)	Exeter	Middlesbrough	Sunderland
Bristol	Glasgow	Newcastle-on-Tyne	Swansea
Burnley	Gloucester	Newport (Mon.)	Taunton
Burslem	Grimsby	Northampton	Tonbridge
Cambridge	Guildford	Norwich	Trowbridge
Canterbury	Guiseley	Nottingham	Tunbridge Wells
Cardiff	Halifax	Oxford	Wakefield
Carlisle	Hanley	Peterborough	Walsall
Carmarthen	Harrogate	Plymouth	Wolverhampton
Cheltenham	Hastings	Pontypridd	Worthing
Chester			

Sound Delivery guaranteed under conditions given below.

Outside Free Delivery Areas

(Route to be at Supplier's discretion)

- (a) *For not less than £1 list value to one address. Packed and delivered free within any railway free delivery radius. Sound delivery guaranteed under conditions given below.*
- (b) *For less than £1 list value to one address. Packed free, but Carriage chargeable at not less than cost. Sound delivery NOT guaranteed, lamps being forwarded at buyers' risk.*

Sound Delivery Conditions

Where sound delivery is guaranteed we credit or replace lamps broken in transit between our store and customer's premises, provided we are duly advised and the lamps returned, carriage paid, within 7 days of date of despatch, our despatch note number to be quoted. We will not accept responsibility for safe custody of such returned lamps.

Re-Delivery, Breakage

No transportation or breakage allowance will be given by us except on deliveries made by us direct.

Patent Notices

MAZDA LAMPS

Mazda Lamps are made in England by The British Thomson-Houston Co., Ltd., under one or more of the following British Patents :—

223204	231449
226215	272934
226455	289478
228189	352063
228907	425653

and others

MERCRA LAMPS

Mercra Lamps are manufactured in England by The British Thomson-Houston Co., Ltd., under one or more of the following British Patents :—

228907	410787
344497	422364
384067	428084
391971	434720
397162	467432
401846	

and others

LAMP CLASSIFICATIONS

GROUP : The Lamps are divided into groups as shown below :—

GROUP I. General lighting service—usually of 25 volts and above ; also Projector Lamps.

GROUP II. Lamps for battery service—in general below 24 volts, except Miners' Handlamps (Group V), and Decoration Lights (Group VI), and Flashlight Lamps.

TYPE : General—VACUUM, GASFILLED, CARBON and ELECTRIC DISCHARGE. Specific Determined by shape of bulb (*i.e.*, Regular, Tubular, Candle, etc.) or arrangement of filament.

SIZE : Determined by wattage (*i.e.*, 25, 40, 60, etc.) in the case of Gasfilled and Vacuum Lamps and by candle-power in the case of Carbon Lamps.

Group	General Type	Specific Type
I.	VACUUM.	Regular { Pearl. Clear. Colour-sprayed. Natural Colour. Traction. Sign. Clear. Colour-sprayed. Tubular. Mazda Light Tubes. Longlite. Candle. Gothic. Newel. Illumination. Dual-Purpose.
	GASFILLED.	Regular { Pearl. Clear. Colour-sprayed. Opal. Natural Colour. Coiled-Coil. Daylight. Projector. Candle. Neon. Mazda-Vite. Traction. Photographic.
	CARBON.	Regular.
II.	VACUUM.	Bus. Indicator. Dome Light. Tubular. Festoon or Trafficator. Cycle.
	GASFILLED.	Headlight, Side, Tail & Dash. Bus.
V.	VACUUM AND GAS-FILLED.	Miners'.
VI.	VACUUM.	Decoration Lights.
VIII.	GASFILLED.	BTH Pearl (Type " B ").
IX.	ELECTRIC DISCHARGE.	Mercury Vapour (Mercra). Sodium Vapour (Sodra).

EXTRA CHARGES.

The following extra charges will be made in all cases where the item specified is not already included in the price tabulations.

GROUP I.

Variation.	Extra.		
	Vacuum	Gasfilled	Carbon
COLOURING : For superficial colouring or varnishing ..	10%	10%	—
For outside spraying (including black) leaving a clear disc on the crown up to 100 watts	6d. each.	6d. each.	—
SILVERING	<i>Prices on application</i>		
CAPS : For S.B.C., S.E.S., S.C.C., in place of B.C., E.S., C.C., except for Sign Lamps	2d. each.	2d. each.	2d. each.
Do. Do. for Sign Lamps	1d. each.	—	—
<i>Applicable up to and including 40 w. Metal Filament or 8 c.p. Carbon.</i>			
For S.B.C., S.E.S. and S.C.C. in place of A.S.B.C. or A.S.C.C.	No extra.		
American Intermediate Screw Cap ..	6d. each.	6d. each.	—
For G.E.S., in place of E.S., and B.C., or vice versa, including G.E.S. clamp Cap for 1000 and 1500 watt General Lighting Service lamps	—	1/- each.	—
Medium Prefocus for Projector Lamps ..	—	1/- each.	—
Goliath Prefocus for Projector Lamps ..	—	2/6 each.	—
For all other special caps up to and including 100 watts..	1/- each.	1/- each.	—

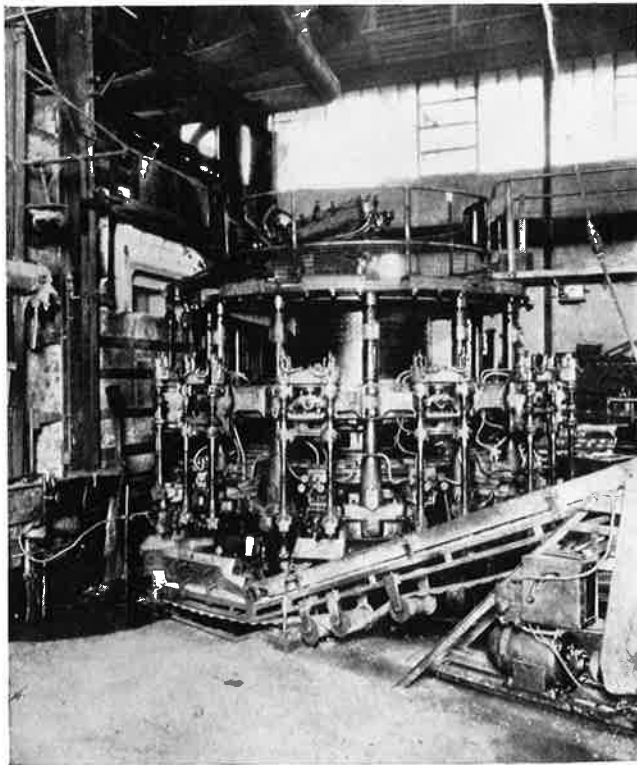
GROUP II.

Variation	Extra
FROSTING : For outside frosting or shadow etching	1d. each.
COLOURING : For superficial colouring or varnishing, including spraying ..	10%
For outside spraying (including black) leaving a clear disc on the crown ..	6d. each.
METAL SPRAYING : For metal spraying top half of crown of Single Filament Headlights.	6d. each.
SILVERING	<i>On application.</i>
FILAMENTS : For 'U' shape or Coiled Coil filament on Headlights	3d. each.
CAPS : For S.B.C., A.S.B.C. and A.S.C.C. ..	1d. each.
For B.C., E.S. and S.E.S.	1d. each.
For 3 pin (B.C.) centre and double contact	1½d. each.
For Bosch Cap ..	3d. each.
For M.E.S. Cap (to be fitted only to 15 m/m and 19 m/m bulbs)	1d. each.
For Hollow and Cartridge Caps.. ..	4d. each.
For Pre-Focus Cap	6d. each.



**Some views of the B T H
Factories at Rugby and
Chesterfield where
every operation — from
bulb-blowing to etching
—in the manufacture of
the famous Mazda Lamp
is carried out**

A section of the new Mazda Lamp Works recently completed at Rugby. Here you may see an army of reasons for the ever-improving quality and decreasing cost of Mazda Lamps. Every year in this spacious, well-lighted, well-regulated, well-equipped and well-staffed factory are made many millions of Mazda Lamps for the better lighting of the British Empire.



This automatic bulb-blowing machine in the B T H Glass Works at Chesterfield can produce, without human intervention, 65,000 perfect Mazda bulbs in 24 hours. It is an awe-inspiring spectacle to watch this gigantic machine taking in molten glass at the top and ejecting finished bulbs at the rate of 45 a minute.



On this highly-ingenious and almost human machine are carried out all the many processes involved in capping and soldering of leading-in wires. The operation of soldering, with tiny blobs of solder and a modicum of flux, is a fascinating lesson in micro-tinkering. There is high romance as well as high efficiency in automatic production of this kind.

Right. Sealing-in machine. Sealing-in the finished mount into the bulb.





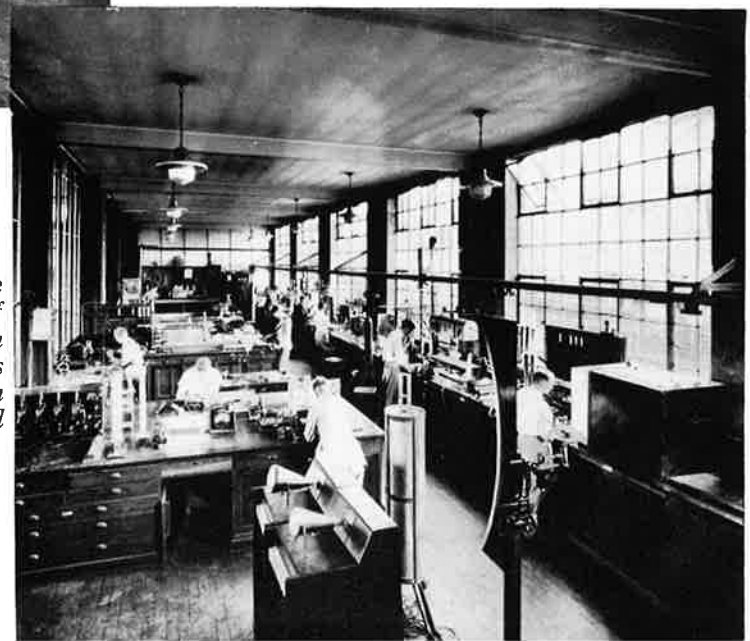
The Lamp Assembly Units in this section of the Mazda Lamp Works at Rugby comprise some of the most amazing automatic equipment so far employed in the manufacture of electric lamps. Machines of miraculous ingenuity and unerring accuracy carry out, at a high rate of speed, and with complete infallibility, intricate operations which can hardly be seen by the unaided eye.

The filament has been called the "heart of the lamp". It is more. It is the lamp. The filaments of all Mazda Lamps are inspected with microscopic care before being mounted in the bulbs. They get all sorts of tests later; but the preliminary inspection shown below is a kind of recruit's medical examination, in which any physical irregularities are carefully noted and earn the instant rejection of the filaments possessing them.



Left: Corner of Life Testing Room. Batches of lamps taken at random from each day's production are tested for life in this room. By running the lamps on excess voltage they can, in a few hours, be subjected to the same strain as in a normal life of 1,000 hours or more.

If Necessity is the mother, then Research is certainly the father of invention. The picture (right) shows a section of the Vacuum Physics Department of the B T H Research Laboratories at Rugby. In this room, many discoveries have been made during recent years, particularly in connection with electric discharge lamps, which have helped to reduce the cost of lighting to its present low level.



**Some views of
Floodlighting,
Industrial
employing
Mercra
in BTH**



*Left: COUNTY HALL, LONDON
View from across the river
showing floodlighting of London's
administrative headquarters by
means of Mercra Lamps in
Mazdalux Floodlight Projectors.*

*Right: TOWER OF LONDON
—showing the floodlighting of this
historic pile, on the occasion of
the Coronation. The wonderful
effect was achieved by Mazda
Lamps in Mazdalux Floodlight
Projectors.*



*Left: STANDARD MOTOR CO.
COVENTRY*

This illustration shows a particularly fine example of Industrial Lighting. For this installation—many Mercra Lamps were supplied, and are housed in Dispersive Type Reflectors.

BTH Illuminating Engineers will be pleased to advise on any kind of Lighting problem.

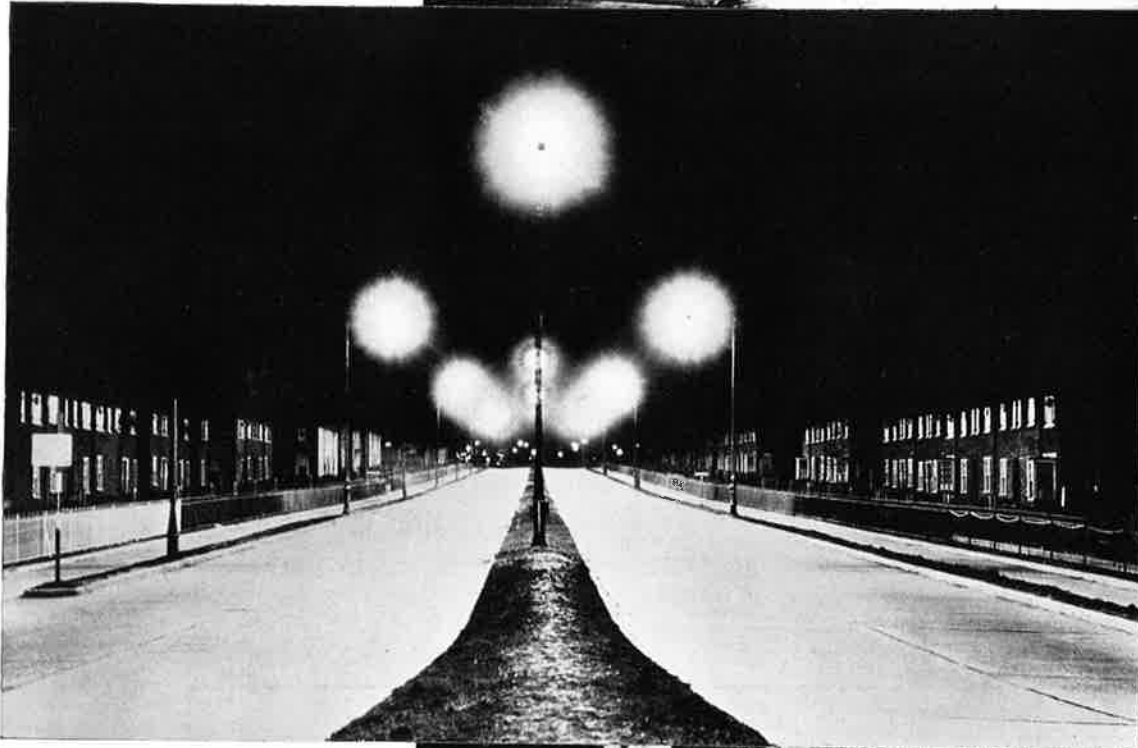
**BTH installations—
Street Lighting and
Lighting—
Mazda and
Lamps
Equipment**

*Right: KINGSTON, SURREY
One of the new stretches of road
lighted by Mercra Lamps in
BTH Horizontal type lanterns.
There is now a total of 333
BTH Lanterns in use in this area.*



*Left: ST. HELIER AVENUE,
MORDEN*

*—lighted by means of Mercra
Lamps in BTH Horizontal type
lanterns. This was the first dual
carriage-way in the Greater
London area to be lighted in
this way.*

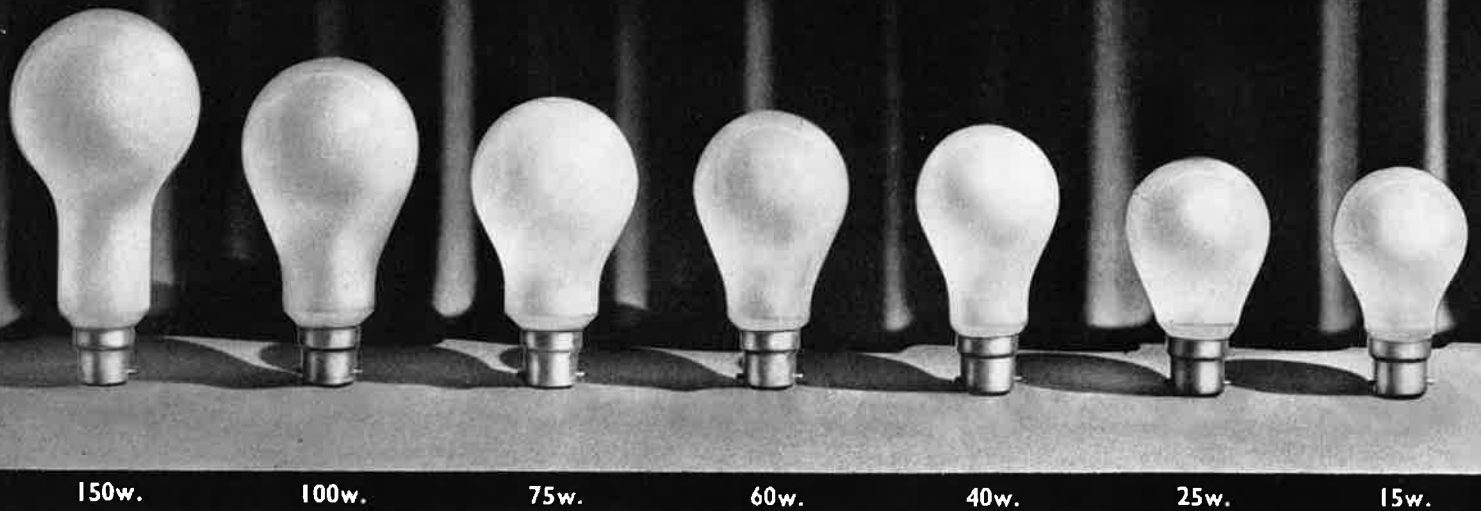


*Right: MESSRS. ALFRED
HERBERT LTD., COVENTRY*

*A noteworthy installation of
BTH Industrial Lighting
Equipment employing Mercra
Lamps is that at the Works of
Messrs. Alfred Herbert Ltd., of
Coventry, the largest machine
tool manufacturers in the world.*



Will you please write or
'phone our nearest branch
office or depot for this
free advisory service.



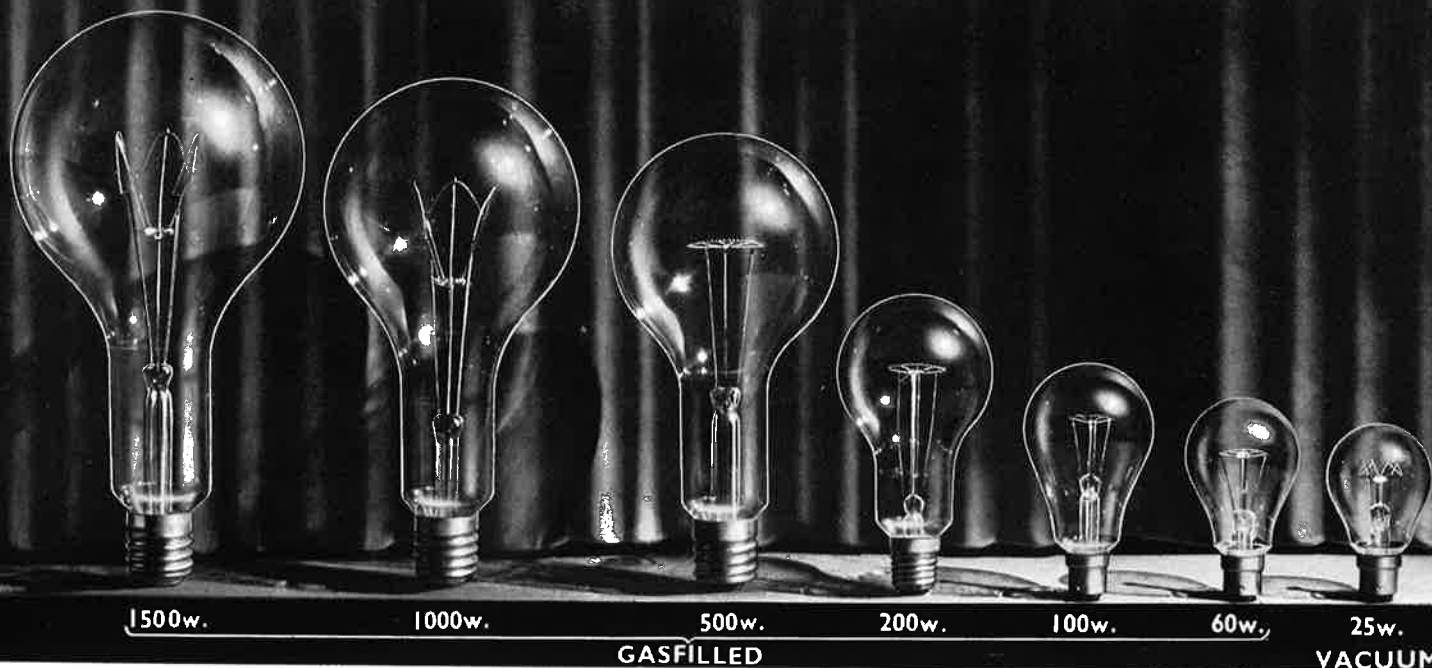
MAZDA PEARL LAMPS

THE inside frosting of the Mazda Pearl Lamp diffuses the light and prevents glare, while the amount of light absorbed by the frosting is practically negligible. As the outside surfaces of the bulbs are smooth glass, they are as easy to clean as clear lamps.

COILED-COIL FILAMENT. Mazda Pearl Lamps in the 40 watt, 60 watt, 75 watt and 100 watt sizes, 100–130 and 200–260 volts, are supplied with the famous coiled-coil filament. This filament is a double coil, more concentrated than the single coil and much less affected by the cooling action of the gas in the bulb. For the same current consumption it gives up to 20% more light than the ordinary gasfilled lamp.

Watts	Approximate Dimensions				Light Centre Length		Voltages											
	Diameter		Length				25 & 30		35, 40, 45, 50, 55		60, 65, 70, 75, 80, 85		100, 105, 110, 115, 120, 125, 130		150		200, 210, 220, 230, 240, 250, 260	
	m/m	ins.	m/m	ins.	m/m	ins.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
15	55	2.17	92.5	3.63	65	2.56	2	1	2	1	2	1	1	6	2	1	1	6
25	60	2.36	100	3.94	70	2.76	2	1	2	1	2	1	1	6	2	1	1	6
40	60	2.36	110	4.33	80	3.15	2	6	2	6	2	6	*1	7	2	2	*1	7
60	65	2.56	117.5	4.61	85	3.35	3	0	3	0	3	0	*1	7	2	2	*1	7
75	70	2.76	125	4.92	90	3.54	—	—	—	—	*1	10	—	—	—	—	*1	10
100	75	2.95	137.5	5.39	100	3.94	—	—	4	6	4	6	*2	0	3	6	*2	0
150	80	3.15	160	6.30	120	4.72	—	—	—	—	3	6	—	—	—	—	3	6

Cap regularly supplied B.C. * Coiled-Coil filament lamps.



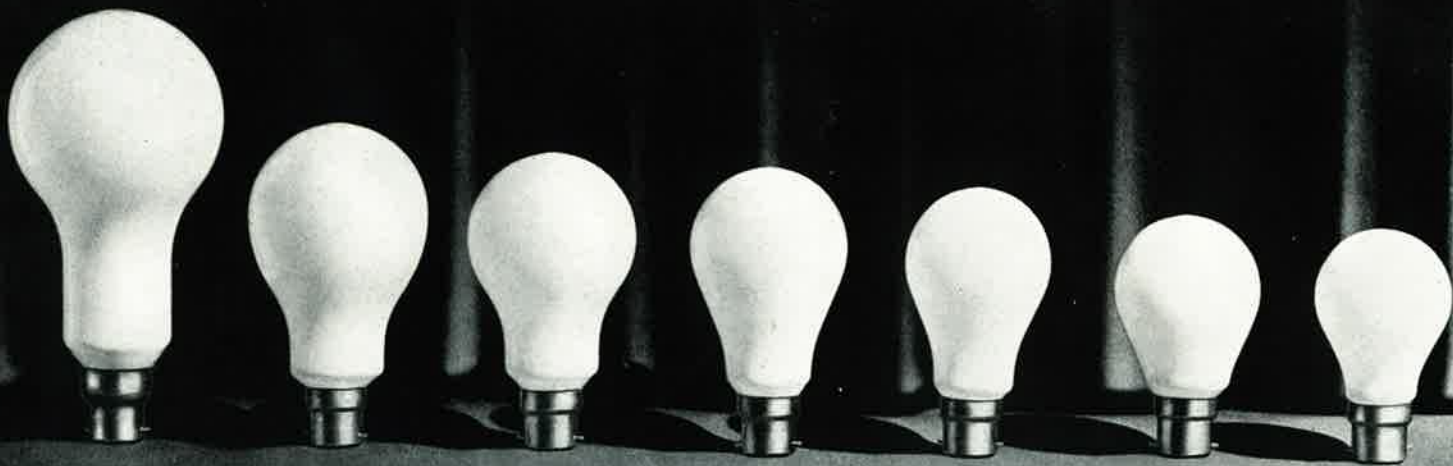
MAZDA CLEAR LAMPS

MAZDA Gasfilled Lamps were the first of their kind to be placed on the market, and users are advised to see that the bulbs of such lamps bear the words "Mazda Gasfilled," which are a guarantee of satisfactory service. The bulb of a Mazda Gasfilled Lamp is filled with an inert gas which permits the filament to be operated at a higher temperature, and consequently at a higher efficiency, than is possible with a vacuum lamp. Mazda Gasfilled Clear Lamps are supplied with the famous Coiled-Coil filament in the 40, 60, 75 and 100 watt sizes, 100-130 and 200-260 volts.

Watts	Approximate Dimensions				Light Centre		Voltages						
	Diameter		Length		Length		25 & 30	35, 40, 45, 50, 55	60, 65, 70, 75, 80, 85	100, 105, 110, 115, 120, 125, 130	150	200, 210, 220, 230, 240, 250, 260	
	m/m	ins.	m/m	ins.	m/m	ins.							
GASFILLED													
15	55	2-17	92-5	3-63	65	2-56	s. d. 2 1	s. d. —	s. d. —	s. d. —	s. d. —	s. d. —	
25	60	2-36	100	3-94	70	2-76	2 1	2 3	2 3	1 8	—	—	
40	60	2-36	110	4-33	80	3-15	2 9	2 9	2 9	*1 9	2 4	*1 9	
60	65	2-56	117-5	4-61	85	3-35	3 3	3 3	3 3	*1 9	2 4	*1 9	
75	70	2-76	125	4-92	90	3-54	—	—	—	*2 0	—	*2 0	
100	75	2-95	137-5	5-39	100	3-94	—	5 0	5 0	*2 3	4 0	*2 3	
150	80	3-15	160	6-30	120	4-72	—	7 9	9 0	3 6	6 3	3 6	
200	90	3-54	178	7-00	133	5-24	—	9 6	10 6	5 6	8 9	5 6	
300	110	4-33	233	9-17	178	7-00	—	12 3	13 3	9 0	11 6	9 0	
500	130	5-12	267	10-51	202	7-95	—	15 6	16 6	11 6	14 0	11 6	
750	150	5-91	300	11-81	225	8-86	—	19 3	20 0	15 0	19 0	15 0	
1000	150	5-91	300	11-81	225	8-86	—	—	—	16 0	19 0	16 0	
1500	170	6-69	335	13-19	250	9-84	—	—	—	22 6	26 3	22 6	
VACUUM													
15	55	2-17	92-5	3-63	65	2-56	—	—	—	1 8	2 3	1 8	
25	60	2-36	100	3-94	70	2-76	—	—	—	—	2 3	1 8	

Cap regularly supplied:—15, 25, 40, 60, 75, 100, 150 watts B.C. 200 watts E.S.
300, 500, 750, 1000, 1500 watts G.E.S.

* Coiled-coil filament lamps.



150w.

100w.

75w.

60w.

40w.

25w.

15w.

MAZDA OPAL LAMPS

Type "O"

THESE lamps should be employed wherever the lamps themselves are visible or maximum diffusion of the light is required. Naturally, the opal glass absorbs a certain amount of the light, and these lamps therefore are not as efficient as Pearl or Clear Mazda Lamps. With Mazda Opal Lamps, no shadows will be cast on the ceiling by the chains of a semi-indirect bowl fitting; while in many other conditions the advantages of such a light-source far outweigh the slight decrease in efficiency.

Watts	Approx. Dimensions				Voltages					
	Diameter		Length		25 & 30	35, 40 45, 50 55	60, 65 70, 75 80, 85	100, 105 110, 115 120, 125 130	150	200, 210 220, 230 240, 250 260
	m/m	ins.	m/m	ins.						
GASFILLED.										
15	55	2.17	92.5	3.63	s. d. 2 4	s. d. 2 4	—	—	—	—
25	60	2.36	100	3.94	2 4	2 4	2 4	—	—	—
40	60	2.36	110	4.33	2 10	2 10	2 10	*1 10	2 7	*1 10
60	65	2.56	117.5	4.61	3 6	3 6	3 6	*1 10	2 7	*1 10
75	70	2.76	125	4.92	—	—	—	*2 2	—	*2 2
100	75	2.95	137.5	5.39	—	5 3	5 3	*2 4	4 6	*2 4
150	90	3.54	178	7.00	—	8 9	10 0	4 0	7 0	4 0
200	110	4.33	233	9.17	—	10 8	12 6	6 6	9 10	6 6
300	130	5.12	267	10.51	—	13 9	15 0	10 3	12 11	10 3
500	150	5.91	300	11.81	—	17 6	18 6	13 0	15 9	13 0

Cap regularly supplied :—15, 25, 40, 60, 75, 100, 150 watts B.C.
200 watts E.S. 300, 500, watts G.E.S.

* Coiled-Coil Filament Lamps.



NATURAL COLOUR

COLOUR SPRAYED

DAYLIGHT BLUE

MAZDA DAYLIGHT LAMPS

Watts	Voltages			
	100, 105, 110, 115, 120, 125, 130		200, 210, 220, 230, 240, 250, 260	
GASFILLED				
	s.	d.	s.	d.
40	2	3	2	3
60	2	3	2	3
100	3	3	3	3
150	4	9	4	9
300	11	6	11	6

NATURAL COLOUR LAMPS

Watts	Volts			
	100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260			
GASFILLED				
	Green, Blue, Amber		Red, Ruby, and other Tints	
	s.	d.	s.	d.
15 (Vac.)	2	3	2	6
25††	2	3	2	6
40	2	4	2	7
60	2	4	2	7
75	3	0	3	6
100	3	3	3	9

† 25 watt Gasfilled Lamp supplied only in 100/130 volts. ‡ Also Vacuum at same prices. 15, 25, and 40 watt lamps are in same size bulb as 25 watt clear.

MAZDA COLOUR SPRAYED LAMPS

Watts	Voltages					
	25 and 30		100, 105, 110, 115, 120, 125, 130		200, 210, 220, 230, 240, 250, 260	
GASFILLED						
	s.	d.	s.	d.	s.	d.
15	2	3	—	—	—	—
25	2	3	1	9	—	—
40	—	—	*1	10	*1	10
60	—	—	*1	10	*1	10
75	—	—	*2	2	*2	2
100	—	—	*2	4	*2	4
150	—	—	4	0	4	0
200	—	—	6	6	6	6
300††	—	—	10	3	10	3
500††	—	—	13	0	13	0
750††	—	—	17	9	17	9
VACUUM						
25§	—	—	s.	d.	s.	d.
40†	—	—	2	0	1	9
					2	0

NOTE.—For special "EMERGENCY" lighting purposes these lamps (up to and including 100 watts) can be sprayed any standard colour (and also black) with a clear disc on the crown at 6d. each extra on clear prices.

Supplied in the following standard colours: Blue, Yellow, Orange or Amber, Green, Red, Pink, Flame, Ivory, and White.

* Coiled-Coil Filament lamps. †† White Sprayed only.

§ Also supplied inside sprayed in 40 watt bulbs only at same price.

† Also supplied inside sprayed at same price.

Caps and dimensions of all lamps on this page are the same as those of clear lamps of corresponding sizes.



40w.
NEWEL



25w.
GOTHIC



40w.
"LONGLITE"



4 and 25w.
DUAL-PURPOSE

MAZDA NEWEL LAMPS

FLAME AND PARCHMENT SPRAYED

The Mazda Newel Lamp while particularly suitable for newel-post mounting, may also be used very appropriately as a ceiling light in halls, porches, etc. Fitted in a batten holder which is recessed or concealed by means of a suitable rose or ceiling plate, the Mazda Newel Lamp provides a lighting unit of high artistic merit.

VACUUM			
Watts	Cap regularly supplied	200, 210, 220, 230, } 240, 250, 260 } Volts	
40	B.C. or E.S.	s. 4	d. 9

S.B.C. or S.E.S. Caps can be supplied at 2d. each extra.

MAZDA GOTHIC LAMPS

FLAME AND PARCHMENT SPRAYED

For attractive and decorative lighting of an unusual character, Mazda Gothic Lamps have many applications. They can be used without shades in ceiling fittings, wall brackets, piano lights, and, in fact, wherever ordinary candle lamps are normally employed. The use of Mazda Gothic Lamps is specially appropriate in rooms with "period" decorations or furnishings.

VACUUM			
Watts	Cap regularly supplied	100, 105, 110, 115, 120, 125, 130, } 200, 210, 220, 230, 240, 250, 260 } Volts	
25	B.C. or E.S.	s. 4	d. 6

S.B.C. or S.E.S. Caps can be supplied at 2d. each extra.

MAZDA "LONGLITE" LAMPS (OPAL)

THE filament of the MAZDA "Longlite" lamp extends practically the whole length of the lamp. Used in fittings of the modern art style "Longlite" lamps provide, without glare, a most unusual effect of great charm.

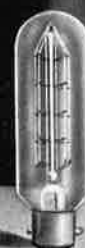
VACUUM									
Watts	Approx. Dimensions				Cap regularly supplied	Voltages			
	Diameter		Length			150			
	m/m	ins.	m/m	ins.		Opal		Colour Sprayed	
40 } 60 }	38	1.50	302	11.89	{ B.C., E.S. or C.C. }	Opal		Colour Sprayed	
						s. d.	s. d.	s. d.	s. d.
						5 0	5 6	7 6	8 0

MAZDA DUAL-PURPOSE LAMPS (OPAL)

This lamp has two filaments, either of which can be operated at will. The change from one filament to the other is effected by means of a cord-operated switch.

It can be used on either alternating or direct current.

VACUUM			
Volts	Approx. Watts	Cap regularly supplied	Price
100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260	4 and 25	B.C.	s. d. 4 3



25w.
CANDLE (Plain)

25w.
CANDLE (Twisted)

30w. (25 x 284 m/m)
"MAZDALITE" TUBULAR Double-Ended

30w.
TUBULAR
Single-Ended

MAZDA CANDLE LAMPS

PLAIN												
Watts	Bulb	Approximate Dimensions				Cap regularly supplied	Voltages					
		Diameter		Length			25, 30	50	60, 65, 70, 75, 80, 85	100, 105, 110, 115, 120, 125, 130	150	200, 210, 220, 230, 240, 250, 260
		m/m	ins.	m/m	ins.							
25 Vac.	Clear. Colour-sprayed.	35	1-38	105	4-13	B.C. S.B.C. or S.E.S.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
		35	1-38	105	4-13		—	3 6	4 0	3 0	4 0	3 0
40 G.F.	Clear. Colour-sprayed.	46	1-81	122	4-80		—	3 11	4 5	3 4	4 5	3 4
		46	1-81	122	4-80		—	4 3	4 6	3 6	4 6	3 6
							—	4 9	5 0	3 11	5 0	3 11
TWISTED												
25 Vac.	Clear. Colour-sprayed.	35	1-38	105	4-13	B.C. S.B.C. or S.E.S.	—	—	—	3 6	4 6	3 6
		35	1-38	105	4-13		—	—	—	3 11	5 0	3 11
40 G.F.	Clear. Colour-sprayed.	46	1-81	122	4-80		—	—	5 0	4 0	5 0	4 0
		46	1-81	122	4-80		—	—	5 6	4 5	5 6	4 5
HUNTALITE (Vacuum)												
20	—	—	—	—	—		—	6 6	6 6	—	6 0	—
40	—	—	—	—	—	—	7 6	7 6	—	6 0	—	
KINGOLITE (Vacuum)												
20	—	—	—	—	—	—	6 6	6 6	—	6 6	—	
40	—	—	—	—	—	—	7 6	7 6	—	7 6	—	
60	—	—	—	—	—	—	8 0	8 0	—	8 0	—	



HUNTALITE



KINGOLITE

C.C., E.S., or S.C.C. caps 3d. each extra.
Colour Sprayed Candle Lamps available in Blue, Yellow, Orange, Red, Pink, Flame, Green, Ivory, or White.
Spare parts for Kingolite lamps—Prices on application.

MAZDA TUBULAR LAMPS

SINGLE ENDED (Vacuum)												
Watts	Approximate Dimensions				Cap regularly supplied	Voltages						
	Diameter		Length			50	60, 65, 70, 75, 80, 85	100, 105, 110, 115, 120, 125, 130	150	200, 210, 220, 230, 240, 250, 260		
m/m	ins.	m/m	ins.	s. d.	s. d.						s. d.	s. d.
Clear												
25*	25	0-98	92	3-62	B.C., S.B.C. or S.E.S.	3 6	4 0	3 0	4 6	3 0		
30	25	0-98	75	3-00		B.C.	—	—	3 6	—	3 6	
40	25	0-98	302	11-89		E.S., B.C., or C.C.	—	—	6 6	—	6 6	
Colour Sprayed												
25*	25	0-98	92	3-62	B.C. S.B.C. or S.E.S.	4 0	4 7	3 3	5 2	3 3		
"MAZDALITE" DOUBLE-ENDED (Vacuum)												
30 60 60 100	25	0-98	221 or 284	8-70 or 11-18	S.C.C.	—	—	Clear 4 0	Col. Spray'd 4 9	—	Clear 4 0	Col. Spray'd 4 9
						—	—	4 9	5 9	—	4 9	5 9
						—	—	5 3	6 4	—	5 3	6 4
						—	—	6 9	7 6	—	6 9	7 6

* S.C.C., E.S., and C.C. Caps, for 25 watts only, 3d. each extra. "Clip Contact" Caps, 3d. each extra for Double Ended Tubular Lamps.



16 C.P.
CARBON



NEON
(Night Light)



NEON
(Indicator)



NEON
(Cruciform)

BTH CARBON LAMPS

THE BTH Carbon Lamp occupies a premier position among carbon lamps and is the recognised standard of quality. It is manufactured in accordance with the Specification of the British Standards Institution. (B.S.S.33.)

British C.P.	Approximate Dimensions				100, 105, 110, 115, 120, 125, 130 volts		200, 210, 220, 230, 240, 250, 260 volts	
	Diameter		Length		Maximum Total Watts	Price	Maximum Total Watts	Price
	m/m	ins.	m/m	ins.				
8	60	2.36	110	4.33	35.0	1 s. 6 d.	37.0	1 s. 6 d.
16	60	2.36	110	4.33	67.0	1 6	74.0	1 6
32	65	2.56	117.5	4.61	127.0	1 9	153.0	1 9

Caps regularly supplied B.C. or E.S.

MAZDA NEON LAMPS

TYPE "N" (Neon Night Light)

MAZDA Neon Night Light Lamps can be used on either alternating or direct current, and are eminently suitable for the continuous and subdued illumination of corridors, halls, nurseries, sickrooms, etc.

Watts	Approximate Dimensions				Voltages 100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260
	Diameter		Length		
	m/m	ins.	m/m	ins.	
5	55	2.17	108	4.25	3 s. 1 d.

Cap B.C. or E.S.

TYPE "I" (Neon Indicator)

Neon Indicator Lamps are designed for use in cooker switches, etc.

Watts	Approximate Dimensions				Voltages 100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260
	Diameter		Length		
	m/m	ins.	m/m	ins.	
0.5	28† 18††	1.10 .71	58 53	2.28 2.08	2 s. 3 d.

Caps. † B.C. or E.S., †† S.B.C. or S.E.S.

"CRUCIFORM"

The MAZDA "Cruciform" Lamp is the ideal illuminant for the home shrine. The filament is in the form of a crucifix which glows with a soft rosy light. Uses only one unit of electricity in 200 hours.

Volts	Watts	Cap regularly supplied	Price
100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260	5	B.C., or E.S.	3 s. 4 d.



STANDARD SIGN

PYGMY SIGN

SERIES BURNING

SPECIAL DECORATION

MAZDA SIGN LAMPS

Watts	Approximate Dimensions				Bulb	Cap regularly supplied	Voltages					
	Diameter		Length				25 & 30	50	60, 65, 70, 75, 80, 85	100, 105, 110, 115, 120, 125, 130	150	200, 210, 220, 230, 240, 250, 260
	m/m	ins.	m/m	ins.								
STANDARD BULB—VACUUM												
10	43	1.70	89	3.50	Clear Clear Colour-sprayed Clear Colour-sprayed	E.S. or B.C.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
							2 0	2 6	2 6	1 9	—	—
15†	43	1.70	89	3.50			2 0	2 3	2 3	1 8	2 3	1 8
							2 3	2 6	2 6	1 9	2 6	1 9
20	43	1.70	89	3.50			2 0	2 0	2 6	2 2		
							2 3	2 9	2 9	2 5		
PYGMY BULB—VACUUM												
15	28	1.10	56	2.20	Clear Colour-sprayed	E.S. B.C. S.E.S. or S.B.C.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
							2 0	2 3	2 3	1 8	2 3	1 8
							2 3	2 6	2 6	1 9	2 6	1 9

† Also supplied inside sprayed at the same price.

15 and 20 watt Sign lamps can be supplied with daylight glass bulbs: prices on application. Natural coloured bulbs are available in the following: 10 watt 100/130 volts; 15 watt 25/30, 50, 60/85, 100/130, and 200/260 volts; 20 watt 100/130 and 200/260 volts only. Green, Blue, or Amber, 7d. each extra. Red, Ruby, or other tints, 10d. each extra. The 28 m/m bulb can be supplied for Switchboard Indicators. When filled with resistance in bulb 6d. each extra on clear prices.

SERIES BURNING. FITTED WITH SHORT-CIRCUITING DEVICE

Volts	Watts	Approximate Dimensions				Cap regularly supplied	Price each		
		Diameter		Length			Clear	Sprayed	Standard Natural Colours
		m/m	ins.	m/m	ins.				
14	7	38	1.50	58	2.28	S.E.S.	s. d. 1 3	s. d. 1 5	s. d. 1 8

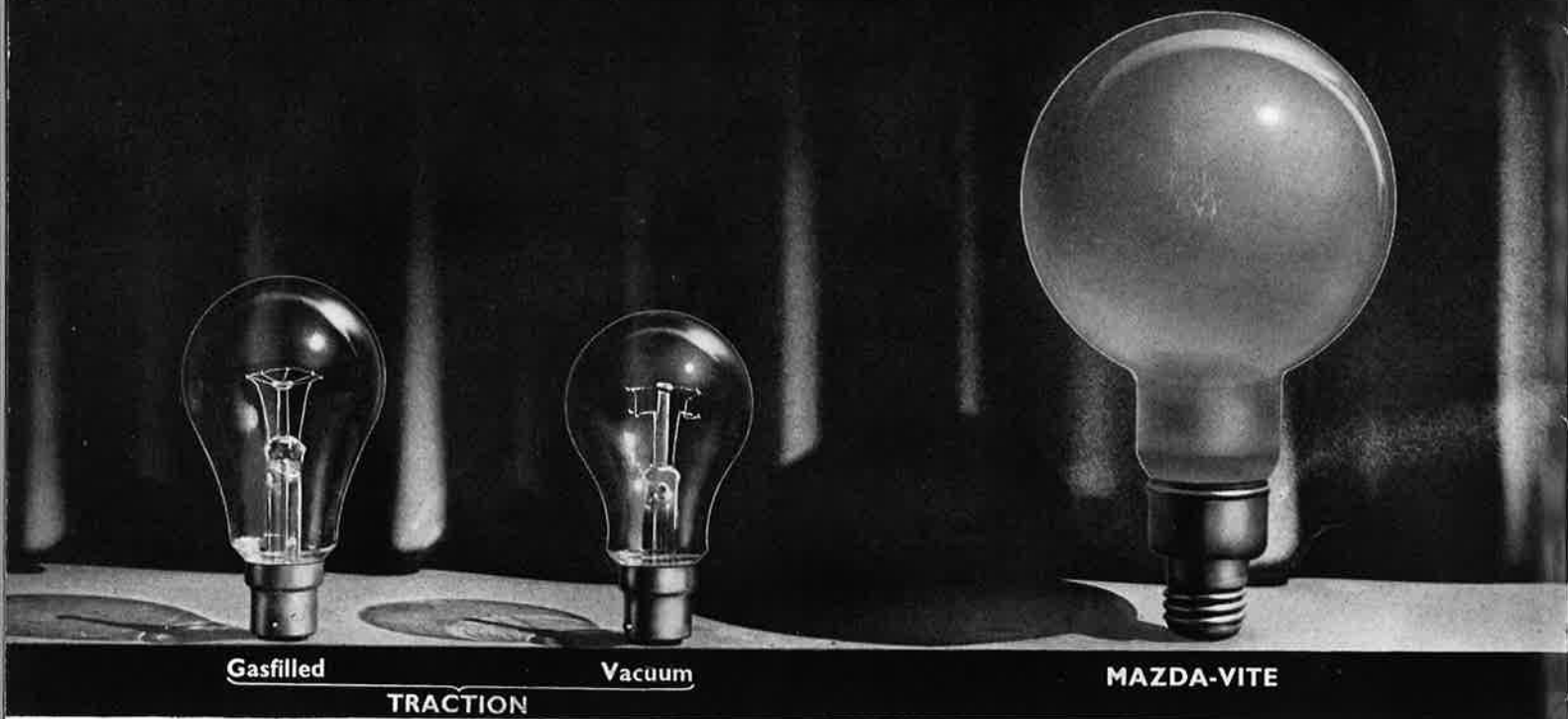
SPECIAL DECORATION TYPE

These lamps, for seasonal and temporary outdoor and indoor decorative illuminations, are particularly recommended to public authorities, entertainment companies, and others who require large quantities of coloured lamps for decorative lighting—as, for example, the illumination of piers, bandstands, etc.

MAZDA SPECIAL DECORATION TYPE LAMPS are supplied in the following standard colours: Blue, Yellow, Orange, Green, Red, Pink, Flame, Ivory, and White.

Watts	Approximate Dimensions				Cap supplied	Voltages	
	Diameter		Length			200, 210, 220, 230, 240, 250, 260	200, 210, 220, 230, 240, 250, 260
	m/m	ins.	m/m	ins.			
15 25	43 60	1.70 2.36	89 110	3.50 4.33	E.S. or B.C.	s. d. 1 1†	s. d. 1 1†
14 Volts (Series burning, fitted with short-circuiting device)							
5 7	32 38	1.26 1.50	63 58	2.48 2.28	S.E.S.	Clear s. d. 1 9	Sprayed s. d. 1 11†
							—

† Can be supplied with either inside or outside sprayed bulbs.
‡ Supplied with outside sprayed bulbs only.



MAZDA TRACTION LAMPS (Series Burning)

Watts	Amps.	Approximate Dimensions				Voltages 100, 110, 120, 130			
		Diameter		Length		Pearl	Clear	Opal and Sprayed	Daylight
		m/m	ins.	m/m	ins.				
GAS FILLED *									
40	0.35	60	2.36	110	4.33	s. d. 1 8	s. d. 1 10	s. d. 1 11	s. d. 2 4
60	0.52	65	2.56	117.5	4.61	1 8	1 10	1 11	2 4
VACUUM									
30	0.27	60	2.36	110	4.33	1 10	1 10	—	—
40	0.35	60	2.36	110	4.33	1 10	1 10	—	—

Caps regularly supplied B.C. or E.S.

* With fusible cut-out (E.S. cap only, 40 and 50 v.) 1d. extra on all prices.

MAZDA-VITE LAMPS

For the lighting of Flower Beds, Rockeries, etc.

The Ultra-Violet and Infra-Red rays from the Mazda-Vite Lamp are valuable in the treatment of certain diseases.

These lamps may also be used (with suitable reflectors) for the night-time illumination of flowers and foliage in their true colours.

Watts	Approx. Dimensions			Description	Price s. d.
	Diam. m/m	Length m/m	L.C.L. m/m		
150	80	160	120	Gasfilled. Special Blue inside frosted bulb. E.S. Cap, fitted with asbestos ring inserted between the thread and the skirt.	22 6
300	120	210	150		27 6
500	120	210	150		35 0*

* Also 100/130 volts.



MAZDA "MICKEY MOUSE" LIGHTS



MAZDA "SNOW WHITE" LIGHTS



MAZDA "FAIRY" LIGHTS

MAZDA DECORATION LIGHTS

"MICKEY MOUSE"

The most original lighting outfit of modern times. Fitted with attractively tinted translucent shades bearing action pictures of Mickey Mouse characters, and comprising flexible cord, lampholders, special combination plug-adaptor and Mazda Lamps; berry bead device enables each lampholder to be separately secured to branch of Christmas tree.

"SNOW WHITE"

The story of "Snow White and the Seven Dwarfs" written by Grimm and animated by Walt Disney, has now been illuminated by Mazda. The eight lively characters have been reproduced in charming action pictures on the shades of Mazda "Snow White" lights—the most attractive outfit of its kind ever produced.

Fitted with attractively tinted translucent shades, and comprising flexible cord, lampholders, special combination plug-adaptor, berry bead device, and Mazda Lamps.

"FAIRY" (Series-Burning)

For the festooning of lounge, dining room, or hall, and, of course, for the lighting of Christmas trees. The 5/- set is a simple outfit without shades, comprising flexible cord, lampholder adaptor, and coloured Mazda Lamps (White, Green, Red, Blue, Orange and Yellow). The 7/6 set is similar to the cheaper version, but embodies a separate extension lampholder for a second set of lamps, berry bead device and a longer flexible cord of better quality. The lamps are also spaced farther apart to give more scope when the set is used as a festoon.

Voltages		
200/260		100/130
16-Lamp Set (with two spare lamps)	12-Lamp Set	8-Lamp Set (with one spare lamp)
24/- Extra Lamps Clear 1/- each	12/6 Extra Lamps Clear 4d. each	16/6 Extra Lamps Clear 1/- each

Voltages	
200/260	
12-Lamp Set	
14/-	
Extra Lamps Clear 4d. each	

Voltages	
200/260	
12-Lamp Set	12-Lamp Set with berry beads, etc.
5/-	7/6
Extra Lamps as supplied with complete Set 4d. each.	
Large size 6d. each.	

When ordering extra lamps for above give full particulars of set, as "Mickey Mouse 12-Lamp Set." In the case of Fairy Lights state size and colour of lamps.

"BELL-STAR" LIGHTS are illustrated on the colour pages following page 26. Particulars and prices on application.



MAZDA DECORATION LIGHTS

“FAIRY” (Parallel Burning).

MAZDA “Fairy” Lights (Parallel Burning) are a new departure in the field of decorative and festive illumination. They are wired in parallel so that each lamp burns independently and the failure of one lamp does not extinguish the others as happens when they are wired in series. Searching for a faulty lamp is therefore never necessary and a replacement can be inserted in the set immediately.

The 15-watt coloured lamps are more attractive than the small lamps normally used in series sets. Another great feature is that, as they provide adequate light for normal purposes, other lighting is unnecessary.

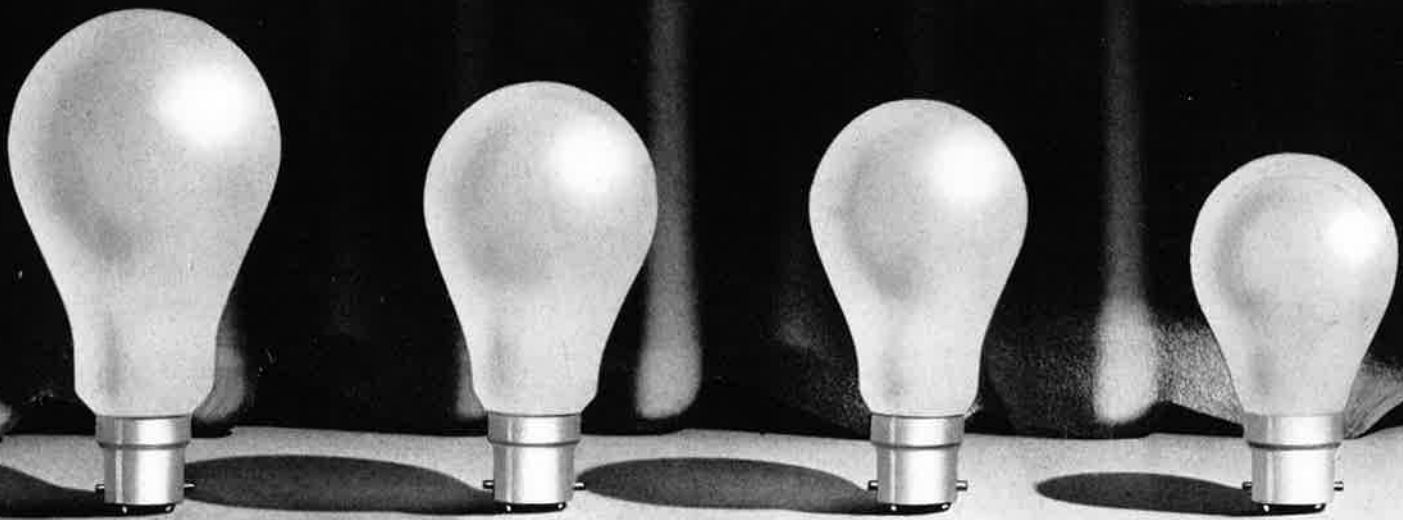
The eight-lamp sets are fitted with a separate extension lampholder, which enables a second set of lamps to be connected at the end of the first set. This extension lampholder is covered by a neat screw-cap when not in use.

Mazda “Fairy” Lights (Parallel-Burning) are supplied in Indoor and Outdoor Types—the latter being specially water-proofed and suitable for permanent outdoor use. The Indoor set has 8 lamps, while the Outdoor sets can be supplied with 8 lamps or 20 lamps.

All sets are fitted with Berry Beads, which enable the lamps to be fixed in any position required.

Voltages : 200/260		
Indoor Type	Outdoor Type	
8-Lamp Set	8-Lamp Set	20-Lamp Set
12/-	16/-	35/-

EXTRA LAMPS. These can be supplied at 1s. 0d. each. When ordering state colour (White, Green, Red, Blue, Orange and Yellow) and whether for Indoor or Outdoor Sets.



100w.

60w.

40w.

25w.

BTH PEARL LAMPS (TYPE "B")

BTH Pearl Lamps (Type 'B') are good quality lamps with single filaments which, although not as efficient as Mazda Coiled-Coil Lamps, are very much superior to many other low-priced lamps.

They can be relied upon to give satisfactory service for ordinary lighting applications. BTH Pearl Lamps (Type 'B') are made in four sizes only, 25, 40, 60 and 100 watts, and in a single finish—Pearl.

Watts	Cap	Approximate Dimensions				Light Centre Length		Voltages:	
		Diameter		Length		m/m	ins.	100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260	s. d.
		m/m	ins.	m/m	ins.				
25	B.C.	55	2.17	92.5	3.63	65	2.56	1	0
40		60	2.36	110	4.33	80	3.15	1	0
60		65	2.56	117.5	4.61	85	3.35	1	0
100		75	2.95	137.5	5.39	100	3.94	1	6



STRAIGHT



RIGHT-ANGLE

MAZDA LIGHT TUBES—Architectural Series

IN homes, theatres, dance halls, hotels, shops, etc., extensive use can be made of Mazda Light Tubes for unusual and attractive lighting effects. They are also highly effective for the illumination of display windows and the outlining of advertising signs.

Voltages: 100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260									
†Overall Length		Diameter 30 m/m				Diameter 40 m/m			
m/m	Nominal inches	Nominal Watts	White Opal	Coloured Opal	Colour Sprayed	Nominal Watts	White Opal	Coloured Opal	Colour Sprayed
STRAIGHT LENGTHS									
150	6	20	s. d. 7 6	s. d. 8 6	s. d. —	—	s. d. —	s. d. —	s. d. —
254	10	30	6 6	7 6	—	—	—	—	—
273	10½	30	10 6	12 0	—	—	—	—	—
305	12	35	8 0	9 6	9 0	60	14 9	16 3	16 0
500	20	40 60 100	14 6*	16 9	15 6	100	20 3	22 3	21 9
			10 6	12 6	11 6				
610	24	75	16 0	18 6	17 0	120	22 6	24 9	23 9
914	36	110	21 0	24 6	23 0	180	29 6	33 6	32 6
1219	48	150	25 6	29 3	27 6	240	35 9	39 3	38 6
CURVES—$\frac{1}{8}$, $\frac{1}{4}$, or $\frac{1}{2}$ CIRCLES									
500	20	{ 40 60 }	20 0	23 0	22 0	100	28 0	30 9	30 9
RIGHT-ANGLE—CENTRE BEND									
500	20	{ 40 60 }	23 6	27 0	25 6	100	33 0	36 3	35 9

Mazda Light Tubes of over 2' 0" in length can only be supplied in 200/260 volts.

* Can also be supplied Clear, White Sprayed or Outside Frosted at same price.

† In the case of curved or angle lamps, "overall length" is measured along the centre line of the curve or angle.

Colour Sprayed Tubes are supplied in Blue, Yellow, Orange, Green, Red, Pink, Flame, and Ivory.

Coloured Opal Tubes are supplied in Pink, Orange, Yellow, Green, Red, and Flame.

All Light Tubes can be supplied at the same prices with either round peg type or flat sided caps with a distance between cap centres and end of lamp of 38 m/m and 29 m/m respectively. Please specify which cap is required.

Prices for other lengths and curves—available on application.

LIGHT TUBE HOLDERS

TYPE 'B' for FLAT-SIDED CAPS

Single contact holder of black moulded composition with special ball clips at either side, and with locking screws which hold the lamp in position without the use of external clips.



4/- per pair (black).

TYPE 'C' for PEG CAPS

Black moulded composition single contact holder, with sliding locking device. Single fixing hole at cap centre point, consisting of a loose sleeve which makes a non-rigid fixture.



3/6 per pair (black).

TYPE 'D' for PEG CAPS

Black moulded composition, and has a single central fixing hole. Lamp cap is secured in the holder by an internal projection forced into position by ring on outside of holder.



3/- per pair (black).

TYPE 'E' for PEG CAPS

A new lampholder with single central fixing hole. Moulded composition in black and a variety of colours. When top section carrying contacts is slid into its locking position it gives perfect electrical contact, secure holding for lamp, freedom from strain on lamp cap, and simple release action for lamp replacements.



3/6 per pair (black). Colours 4d. per pair extra.

Type "B", Type "C" and Type "D" Holders can be supplied colour sprayed in any standard colour at 4d. per pair extra.



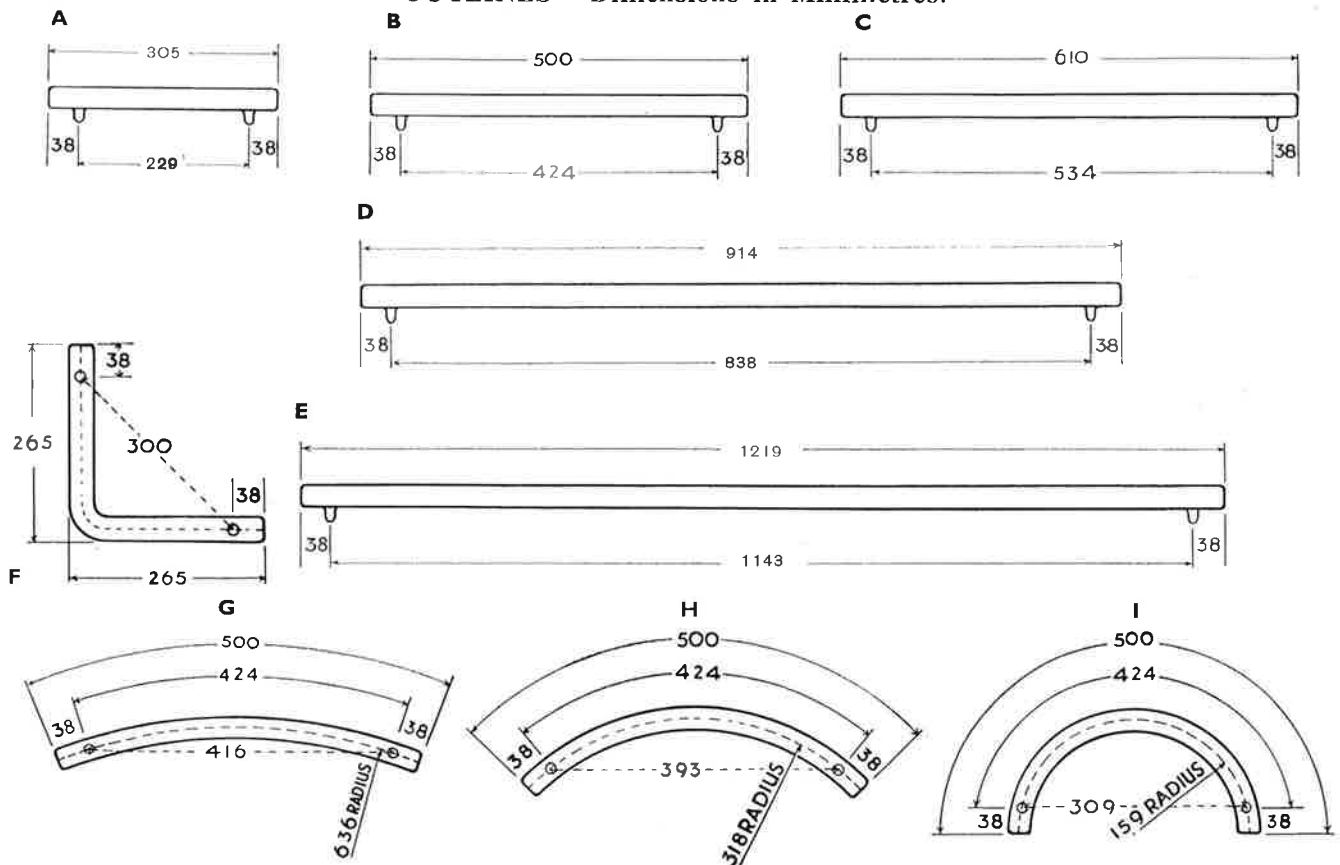
$\frac{1}{2}$ CIRCLE

$\frac{1}{4}$ CIRCLE

$\frac{1}{8}$ CIRCLE

MAZDA LIGHT TUBES (Architectural Series)

OUTLINES — Dimensions in Millimetres.



- A.—12 ins. (Nominal) Straight .. round peg cap.
- B.—20 " " " " " "
- C.—24 " " " " " "
- D.—36 " " " " " "
- E.—48 " " " " " "
- F.—20 " " Right-Angle " " "
- G.—20 " " " " " "
- H.—20 " " " " " "
- I.—20 " " " " " "

CONVERSION TABLE					
m/m	ins.	m/m	ins.	m/m	ins.
29	1.14	318	12.52	636	25.04
38	1.50	424	16.69	838	32.99
159	6.26	442	17.40	914	35.98
229	9.02	500	19.69	1143	45.00
265	10.43	534	21.02	1219	47.99
305	12.00	610	24.00		

All Mazda Light Tubes can be supplied with either 30 or 40 m/m diam. tubes.

NOTE:—All dimensions given are subject to manufacturing tolerances.

Illustrations approx. one ninth full size.

A B C D E F

MAZDA LIGHT TUBES (Alphabet Series)

THE new Alphabet Series of Mazda Light Tubes are made in 12" and 20" sizes. No difficulty need be experienced in the formation of any sign, fascia, etc., where these sizes of lettering are appropriate. They can be connected and controlled in exactly the same way as standard electric lamps. There are six colours available: pink, orange, yellow, green, red and flame, so that any surrounding colour scheme can be matched. It should be emphasised that the *daylight* value of signs or facias employing Mazda Light Tubes is equal to that of the most colourful painted signs.

12" LETTERS

LETTER	Code Nos.	Qty	Watts		Opal Price each	Total £ s. d.	Col. Opal Price each	Total £ s. d.
			Section	Total				
A ^{A16} A _{A4}	A.1	1	20	} 104	7/6	} 2 0 6	8/6	} 2 6 9
	A.4	1	36		9/6		9/6	
	A.16	1	48		25/-		28/9	
B ^{A15} A _{A9}	A.4	1	36	} 117	8/-	} 2 18 0	9/6	} 3 7 0
	A.9	1	36		25/-		28/9	
	A.15	1	45		25/-		28/9	
C ^{A23}	A.23	1	63	63	26/3	1 6 3	30/-	1 10 0
D ^{A15} A _{A9}	A.4	1	36	} 99	8/-	} 1 14 3	9/6	} 1 19 6
	A.25	1	63		26/3		30/-	
E ^{A1} A _{A1}	A.1	3	20	} 96	7/6	} 1 10 6	8/6	} 1 15 0
	A.4	1	36		8/-		9/6	
F ^{A1} A _{A1}	A.1	2	20	} 76	7/6	} 1 3 0	8/6	} 1 6 6
	A.4	1	36		8/-		9/6	
G ^{A21} A _{A1}	A.1	1	20	} 80	7/6	} 1 13 9	8/6	} 1 18 6
	A.21	1	60		26/3		30/-	
H ^{A4} A _{A1}	A.1	1	20	} 92	7/6	} 1 3 6	8/6	} 1 7 6
	A.4	2	36		8/-		9/6	
I ^{A4}	A.4	1	36	36	8/-	8 0	9/6	9 6
J ^{A16}	A.18	1	51	51	25/-	1 5 0	28/9	1 8 9
K ^{A1} A _{A2}	A.1	1	20	} 86	7/6	} 1 2 0	8/6	} 1 5 6
	A.2	1	30		6/6		7/6	
	A.4	1	36		8/-		9/6	
L ^{A4} A _{A1}	A.1	1	20	} 56	7/6	} 15 6	8/6	} 18 0
	A.4	1	36		8/-		9/6	
M ^{A2} A _{A1}	A.2	2	30	} 132	6/6	} 1 9 0	7/6	} 1 14 0
	A.4	2	36		8/-		9/6	

LETTER	Code Nos.	Qty	Watts		Opal Price each	Total £ s. d.	Col. Opal Price each	Total £ s. d.
			Section	Total				
N ^{A4} A _{A4}	A.4	3	36	} 108	8/-	} 1 4 0	9/6	} 1 8 6
	A.4	1	36		8/-		9/6	
O ^{A14} A _{A14}	A.14	2	45	90	25/-	2 10 0	28/9	2 17 6
P ^{A4} A _{A15}	A.4	1	36	} 81	8/-	} 1 13 0	9/6	} 1 18 3
	A.15	1	45		25/-		28/9	
Q ^{A1} A _{A13}	A.1	1	20	} 104	7/6	} 2 17 6	8/6	} 3 6 0
	A.13	1	39		25/-		28/9	
	A.14	1	45		25/-		28/9	
R ^{A15} A _{A1}	A.1	1	20	} 101	7/6	} 2 0 6	8/6	} 2 6 9
	A.4	1	36		8/-		28/9	
A.15	1	45	25/-	28/9				
S ^{A10} A _{A10}	A.10	2	39	78	25/-	2 10 0	28/9	2 17 6
T ^{A2} A _{A3}	A.2	1	30	} 62	6/6	} 17 0	7/6	} 19 6
	A.3	1	32		10/6		12/-	
U ^{A32}	A.32	1	81	81	33/9	1 13 9	38/9	1 18 9
V ^{A4} A _{A4}	A.4	2	36	72	8/-	16 0	9/6	19 0
W ^{A2} A _{A4}	A.2	2	30	} 132	6/6	} 1 9 0	7/6	} 1 14 0
	A.4	2	36		8/-		9/6	
X ^{A12} A _{A12}	A.12	2	39	78	25/-	2 10 0	28/9	2 17 6
Y ^{A1} A _{A11}	A.1	1	20	} 59	7/6	} 1 12 6	8/6	} 1 17 3
	A.11	1	39		25/-		28/9	
Z ^{A2} A _{A4}	A.2	2	30	} 96	6/6	} 1 1 0	7/6	} 1 4 6
	A.4	1	36		8/-		9/6	

Two lampholders are required for each section of letter. Holders are not included in the above prices.

G H I J K L M

MAZDA LIGHT TUBES (Alphabet Series)

Metal Mounts for all 12" and 20" letters are available, particulars of which will be sent on application. See page 22 for special lampholders—Type "D"—to be used with Alphabet Series Mazda Light Tubes.

20" LETTERS

LETTER	Code Nos.	Q't'y	Watts		Opal Price each	Total	Col. Opal Price each	Total
			Section	Total				
A ^{A34} A ^{A7} A ^{A4}	A.4	1	36	} 177	8/-	} 2 12 3	9/6	} 3 0 9
	A.7	1	60		10/6		12/6	
	A.34	1	81		33/9		38/9	
B ^{A33} A ^{A7} A ^{A22} A ^{A33}	A.7	1	60	} 201	10/6	} 3 10 6	12/6	} 4 1 3
	A.22	1	60		26/3		30/-	
	A.33	1	81		33/9		38/9	
C ^{A19} A ^{A19} A ^{A20}	A.19	1	54	} 108	25/-	} 2 10 0	28/9	} 2 17 6
	A.20	1	54		25/-		28/9	
D ^{A7} A ^{A36} A ^{A16}	A.7	1	60	} 168	10/6	} 2 15 6	12/6	} 3 4 3
	A.36	1	108		45/-		51/9	
E ^{A2} A ^{A1} A ^{A2} A ^{A7}	A.1	1	20	} 140	7/6	} 1 11 0	8/6	} 1 16 0
	A.2	2	30		6/6		7/6	
	A.7	1	60		10/6		12/6	
F ^{A2} A ^{A1} A ^{A7}	A.1	1	20	} 110	7/6	} 1 4 6	8/6	} 1 8 6
	A.2	1	30		6/6		7/6	
	A.7	1	60		10/6		12/6	
G ^{A19} A ^{A17} A ^{A1}	A.1	1	20	} 125	7/6	} 2 17 6	8/6	} 3 6 0
	A.17	1	51		25/-		28/9	
	A.19	1	54		25/-		28/9	
H ^{A7} A ^{A2} A ^{A7}	A.2	1	30	} 150	6/6	} 1 7 6	7/6	} 1 12 6
	A.7	2	60		10/6		12/6	
I ^{A7}	A.7	1	60	60	10/6	10 6	12/6	12 6
J ^{A35}	A.35	1	84	84	37/6	1 17 6	43/-	2 3 0
K ^{A4} A ^{A5} A ^{A7}	A.4	1	36	} 138	8/-	} 1 14 6	9/6	} 2 0 6
	A.5	1	42		16/-		18/6	
	A.7	1	60		10/6		12/6	
L ^{A7} A ^{A2} A ^{A7}	A.2	1	30	} 90	6/6	} 17 0	7/6	} 1 0 0
	A.7	1	60		10/6		12/6	
M ^{A7} A ^{A2} A ^{A12}	A.7	4	60	240	10/6	2 2 0	12/6	2 10 0

LETTER	Code Nos.	Q't'y	Watts		Opal Price each	Total	Col. Opal Price each	Total
			Section	Total				
N ^{A4} A ^{A7} A ^{A7}	A.7	2	60	} 182	10/6	} 1 17 0	12/6	} 2 3 6
	A.8	1	62		16/-		18/6	
O ^{A31} A ^{A31}	A.31	2	78	156	33/9	3 7 6	38/9	3 17 6
P ^{A33} A ^{A7} A ^{A33}	A.7	1	60	} 141	10/6	} 2 4 3	12/6	} 2 11 3
A.33	1	81	33/9		38/9			
Q ^{A29} A ^{A1} A ^{A29} A ^{A31}	A.1	1	20	} 170	7/6	} 3 11 3	8/6	} 4 1 9
	A.29	1	72		30/-		34/6	
	A.31	1	78		33/9		38/9	
R ^{A33} A ^{A7} A ^{A2} A ^{A33}	A.2	1	30	} 171	6/6	} 2 10 9	7/6	} 2 18 9
	A.7	1	60		10/6		12/6	
	A.33	1	81		33/9		38/9	
S ^{A30} A ^{A30}	A.30	2	72	144	30/-	3 0 0	34/6	3 9 0
T ^{A5} A ^{A6}	A.5	1	42	} 98	16/-	} 1 12 0	18/6	} 1 17 0
	A.6	1	56		16/-		18/6	
U ^{A27} A ^{A28} A ^{A28}	A.27	1	69	} 138	30/-	} 3 0 0	34/6	} 3 9 0
	A.28	1	69		30/-		34/6	
V ^{A7} A ^{A7} A ^{A7}	A.7	2	60	120	10/6	1 1 0	12/6	1 5 0
W ^{A7} A ^{A7} A ^{A7}	A.7	4	60	240	10/6	2 2 0	12/6	2 10 0
X ^{A26} A ^{A26}	A.26	2	66	132	30/-	3 0 0	34/6	3 9 0
Y ^{A4} A ^{A24} A ^{A24}	A.4	1	36	} 99	8/-	} 1 14 3	9/6	} 1 19 6
	A.24	1	63		26/3		30/-	
Z ^{A4} A ^{A7} A ^{A4}	A.4	2	36	} 132	8/-	} 1 6 6	9/6	} 1 11 6
A.7	1	60	10/6		12/6			

Two lampholders are required for each section of letter. Holders are not included in the above prices.

MAZDA "NEWELITE"

MAZDA "CLUSTALITE"
3 Purpose Lighting Unit

MAZDA "NEWELITE"

A COMPLETE LIGHTING UNIT—INCLUDING LAMP, FITTING and FIXING SCREWS

This new unit, while particularly suitable for mounting on a staircase newel-post, may also be used as a ceiling light of unusual decorative character in hall or porch. An attractive "period" effect can be achieved by the use of several Mazda "Newelite" units on the ceiling of a panelled room.

The unit consists of a Mazda Newel Lamp with a specially designed lampholder fitting. The lamp is available in two finishes—Parchment or Flame, with moulded corners picked out in black lacquer. The fitting is made in a rich dark brown moulded composition. Inside the fitting is a rubber gasket—which holds the Mazda Newel Lamp rigid—and the unit is supplied ready for installation.

PRICES

MAZDA NEWEL LAMP (40 watt, 200/260 volt)	4/9
FITTING	1/3
MAZDA "NEWELITE" UNIT COMPLETE	6/-

When ordering, please state whether Flame or Parchment Lamp is required and voltage of supply.

MAZDA "CLUSTALITE"

3-PURPOSE LIGHTING UNIT, COMPLETE WITH 12 LAMPS

This unit can be used as a ceiling fitting, as a pendent fitting, or as a table standard. It is an artistic metal fitting with twelve lamps wired up in series. The finish is Florentine bronze, and the lamps are available in CLEAR, WHITE, YELLOW, GREEN, AMBER, or MIXED COLOURS.

AS CEILING FITTING. When used as a ceiling fitting the adaptor should be removed and the flexible cord joined to the wires coming through the ceiling. There are three partially drilled screw holes in the backplate. These holes can be easily cleared and the fitting screwed to an ordinary ceiling block.

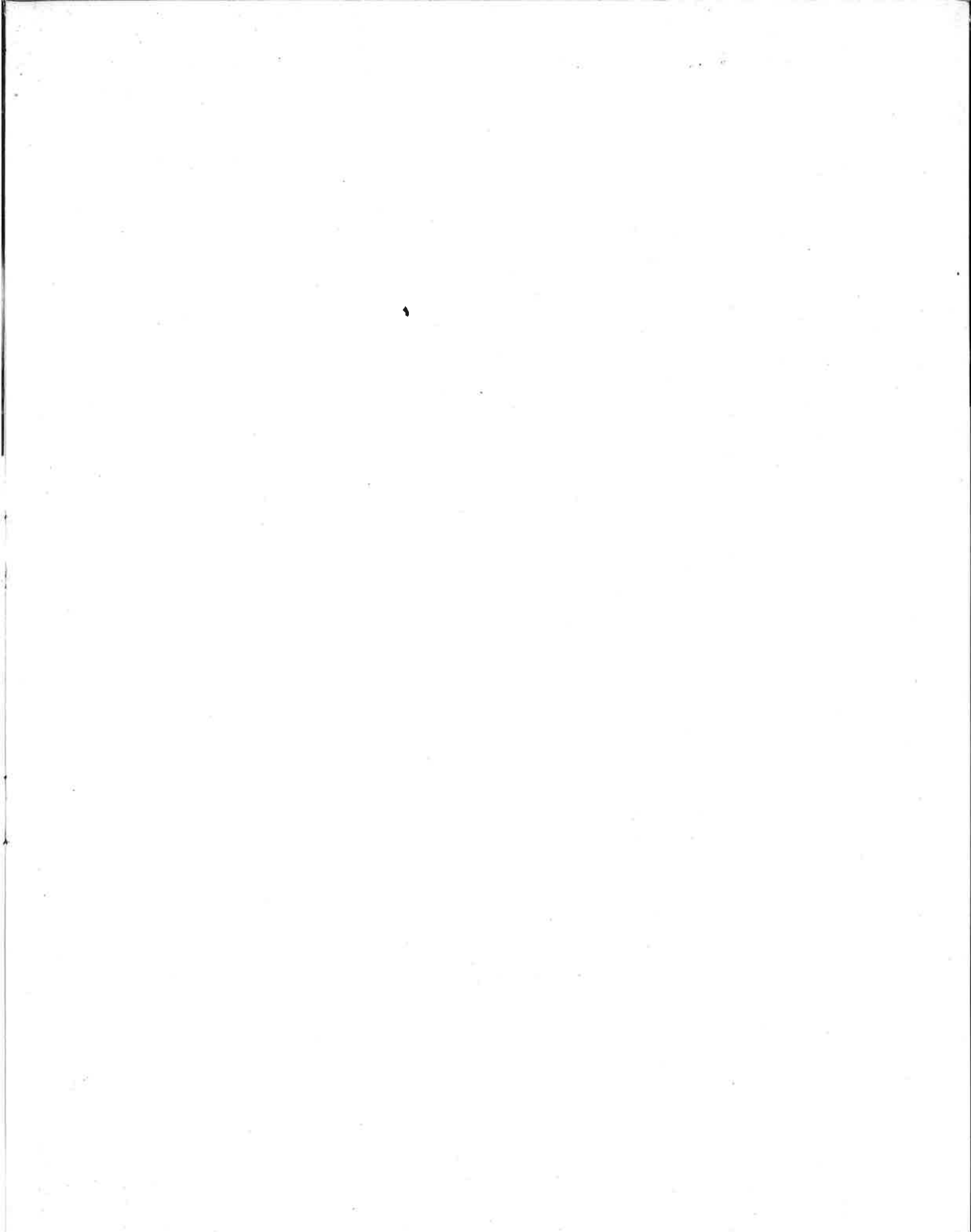
FOR PENDENT USE. The Mazda "Clustalite" is fitted with an adaptor which can be plugged to any existing lampholder. The flexible cord can be lengthened or shortened as required by releasing the cord grip in the top of the fitting.

AS TABLE STANDARD. The Mazda "Clustalite" may be inverted and used as a decorative table stand for a flower vase or other ornament. To make a flat platform for the vase, the raised ornament can be removed from the fitting by taking out the screw. Screw should then be re-inserted and driven right home so that the head is level with the platform.

PRICE

MAZDA "CLUSTALITE" complete with twelve 19 volt, 3 watt Mazda Decoration Lamps wired up in series and fitted with Adaptor, 36 watt, 200/260 volts	10/6
State colour of lamps. Extra lamps 4d. each	

When ordering extra lamps for replacement, please specify LAMPS for MAZDA "CLUSTALITE" stating number and colour required.





1



2



3



4



5



8



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6



7

MAZDA LAMPS FOR DECORATIVE LIGHTING

Most of the lamps are made in the full range of Standard Colours : Blue, Yellow, Orange, Green, Red, Pink, Flame, Ivory and White. In other cases the colours are stated.

1. *Double Ended Tubular* : Standard Colours.
2. *Mazda Light Tubes* : Sprayed in Standard Colours.
3. *Coloured Opal* : Pink, Orange, Red, Yellow, Green and Flame.
4. *Colour Sprayed* : Standard Colours.
5. *Natural Colour* : Green, Blue, Amber, Red, Ruby and other tints.
7. *Daylight* : Daylight blue glass only.
- 8 & 9. *Candle* : Standard Colours.
10. *Sign* : Standard Colours, Natural
11. *Pygmy Sign* : Colours as for 6 and Daylight.
12. *Series Sign* : Sprayed in Standard Colours and Natural Colours as for 6.
13. *Lamps for Mazda Fairy Lights* : Colours as shown.
14. *Newel* } Flame and Parchment Sprayed.
15. *Gothic* }
16. *Mazda Snow White Lights* ; Shades in various tints with coloured designs.
17. *Mazda Bell-Star Lights* : Bells and Stars in Red, Green, Blue and Yellow.
18. *Mazda Mickey-Mouse Lights* : Shades in various tints with coloured designs.
19. " *Longlite* " : Standard Colours.



10



11



12



14



15



13



16



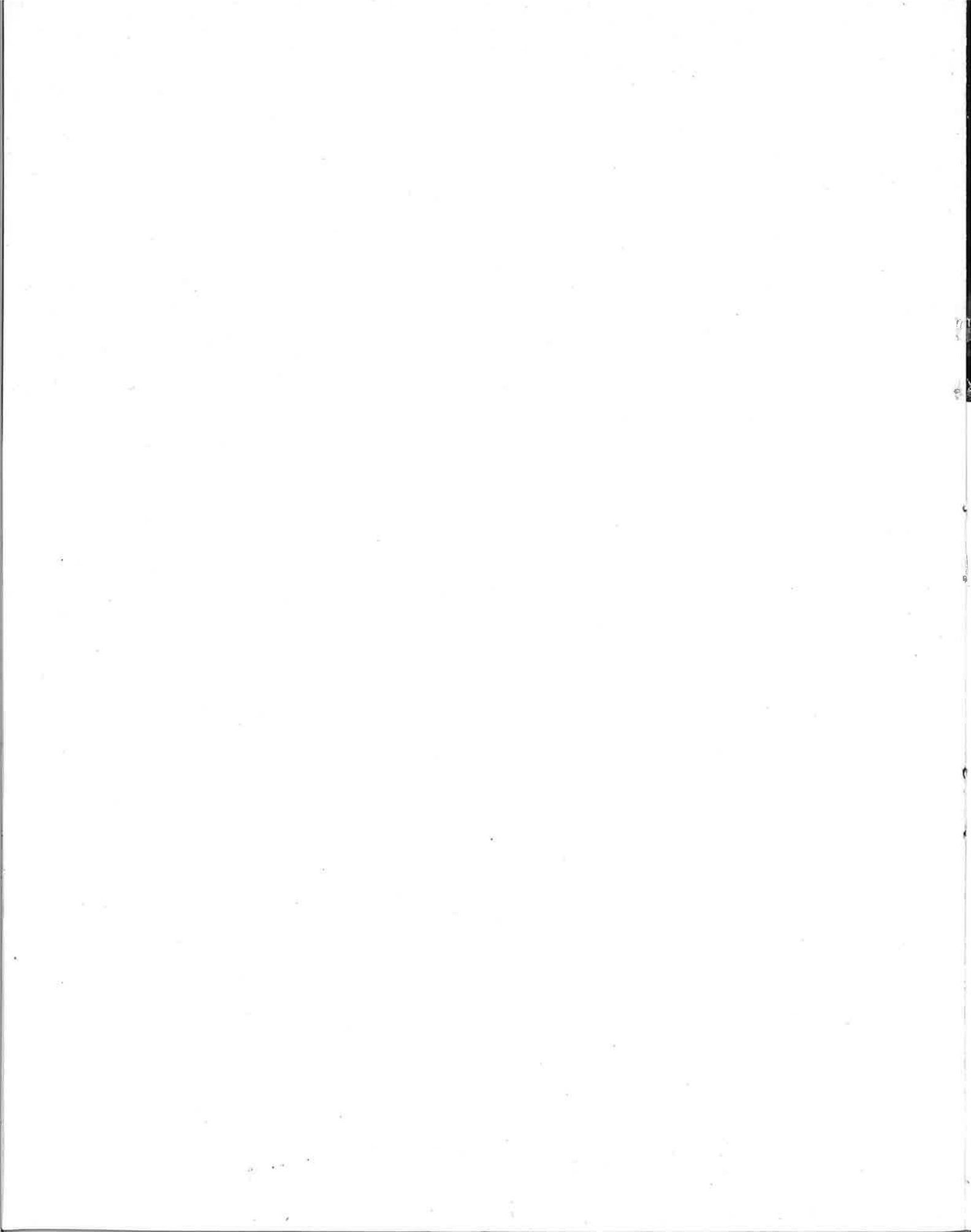
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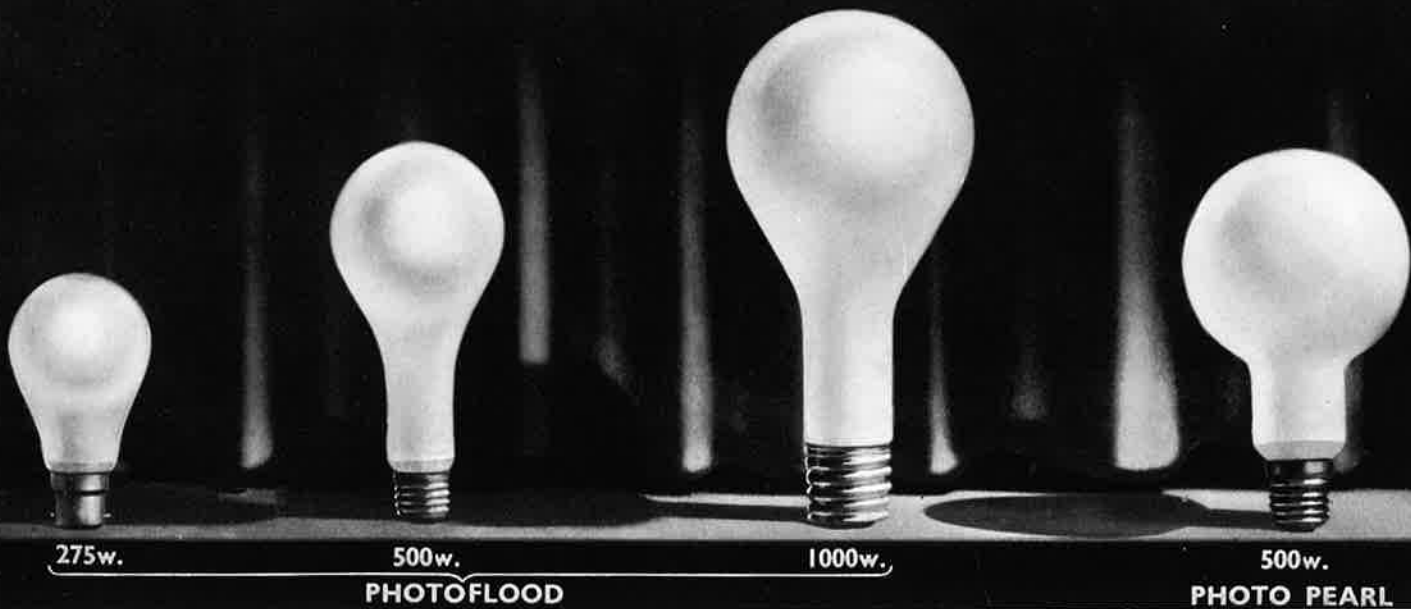


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19





MAZDA PHOTOGRAPHIC LAMPS

PHOTO FLOOD

MAZDA Photo Flood Lamps for use on lighting circuits provide a ready means of obtaining a large amount of light of high photographic efficiency for a low current consumption. They are invaluable to the home photographer and cinematographer, and greatly facilitate the operations of commercial photographers in studio and in out-of-studio work.

PHOTO PEARL

MAZDA Photo Pearl Lamps provide the ideal form of illumination for the advanced amateur and professional photographer. They give a brilliant yet soft light of excellent photographic efficiency, due to special design of the filament and bulb finish. Giving a life of approximately 100 hours which is sufficient for hundreds of exposures, these lamps are most economical in use.

The marking on these lamps is on the side of the bulb, making them suitable for use with photographic enlarging apparatus.

Rating		Life Hours	Diam. m/m	Length m/m	Price each s. d.
Volts	Watts				
100, 105, 110, 115,	250	2	65	125	2 6
120, 125, 130,					
200, 210,	500	6	80	160	6 0
220, 230,					
240, 250, 260	1000	10	111	239	15 0
		(max.)			

Standard Caps, 250 w., 275 w., 500 w., B.C. with fuse, 1000 w., G.E.S.

Rating		Diameter m/m	Length m/m	Price each s. d.
Volts	Watts			
100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260	500	100	175	20 0

Standard Cap E.S.

PHOTO ENLARGER

Rating		Life Hours	Diam. m/m	Length m/m	Price each s. d.
Volts	Watts				
100, 105, 110, 115, 120, 125, 130, 200,	75	300	65	117.5	2 8
210, 220,					
230, 240, 250, 260.	100	300	70	125	2 10

Standard Cap B.C. or E.S.

DARK ROOM

Rating		Diam. m/m	Length m/m	Price each s. d.
Volts	Watts			
100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260	40 & 40	90	153	9 6†
	15	60	105	4 6*
	40 & 17	90	153	9 6††

Standard Cap 15 w. B.C. or E.S., 40 and 40 w., 40 and 17 w. B.C.
 * Outside varnished green, yellow, orange, or red.
 † Red bulb inside. †† Yellow bulb inside.



400 w.



250 w.



125 w.



80 w.

MERCRA LAMPS

80, 125, 250 and 400 watts.

MERCRA Lamps are mercury vapour electric discharge lamps, and find their principal applications in street lighting, floodlighting and industrial lighting.

The lamp consists of two glass envelopes, the space between the inner and outer envelope being for heat retention purposes. The electrodes, which require no separate heating transformers, are mounted one at each end of the inner tube and are heavily coated to give a high electronic emission when incandescent.

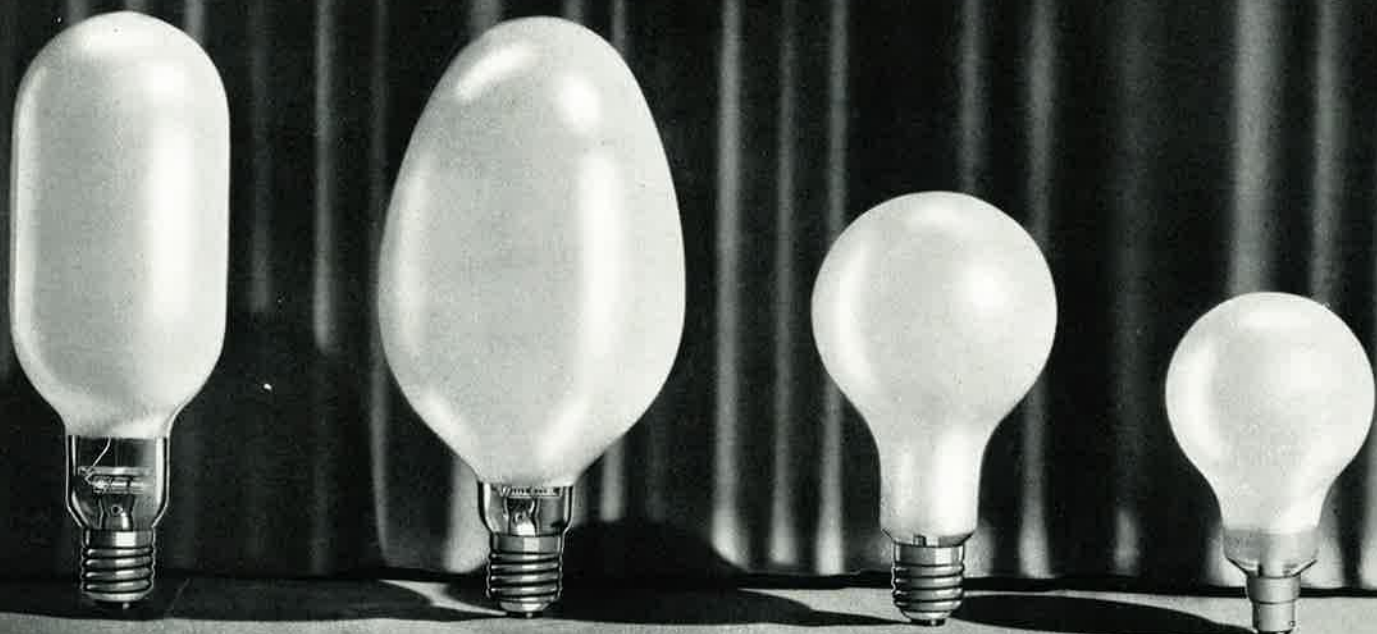
A third electrode situated close to one of the main electrodes and connected to the mains through a series resistance serves to stimulate conduction at starting.

Each lamp requires a choke in series with it, to control the current passing, since the lamp has no electrical resistance of its own, and in some cases certain other auxiliary equipment is desirable, such as a condenser connected across the mains where power-factor correction is required.

The 250 and 400 watt lamps are fitted with G.E.S. caps, while the 80 and 125 watt lamps are fitted with bayonet caps. To prevent the accidental insertion of the 80 or 125 watt lamp in any ordinary B.C. holder not connected with a choke, the caps of the lamps have three pins instead of the usual two pins.

Watts	Cap	A.C. Voltages	Initial Light Output Lumens	Approximate Dimensions		Light Centre Length m/m	Price each	
				Diameter m/m	Length m/m		s.	d.
80	3-Pin B.C.	200/260	3040	80	160	120	25	0
125			5000	90	178	133	30	0
250	G.E.S.	100/130 200/260	8500	51	290	177	37	6
400			16000 18000					

IMPORTANT NOTE.—Mercra Lamps are made to operate only with control gear manufactured or approved by The British Thomson-Houston Co., Ltd.



400w.
(Tubular Bulb)

400w.
(Iso-thermal Bulb)

125w.

80w.

MERCRA FLUORESCENT LAMPS

80, 125 and 400 watts

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 Mercra Fluorescent Lamp has been developed to meet requirements where some degree of colour rendering is important.

The mercury vapour discharge tube is mounted in an enlarged outer jacket, the inner surface of which is coated with powder which fluoresces under ultra-violet radiation from the inner lamp. This fluorescent radiation provides colour correction, by adding both red and middle blue light.

The electrical characteristics of these lamps are similar to the standard Mercra Lamps in that they require to be operated on alternating current with a standard choke and, if desired, a condenser for power factor correction.

These lamps have been designed for industrial lighting and the 400 watt lamp is available in two shapes, pear-shaped (iso-thermal) and tubular. The iso-thermal is slightly more efficient, but the tubular has been designed for situations in which the greater diameter of the former cannot be accommodated.

While the degree of colour correction does not render the light emitted from the lamp equivalent to daylight, it is nevertheless much more pleasing than uncorrected mercury light.

Watts	Cap	A.C. Voltages	Initial Light Output Lumens	Approximate Dimensions			Light Centre Length m/m	Price each	
				Overall Diameter m/m	Overall Length m/m	Neck Diameter m/m		s.	d.
80	3-pin B.C.	200, 210, 220, 230, 240, 250, 260	3040	110	178	—	123	32	6
125	G.E.S.		5000	130	233	—	167	40	0
400 (Iso-thermal)	G.E.S.		15200	165	330	51	195	55	0
400 (Tubular)	G.E.S.		14800	115	325	51	195	55	0

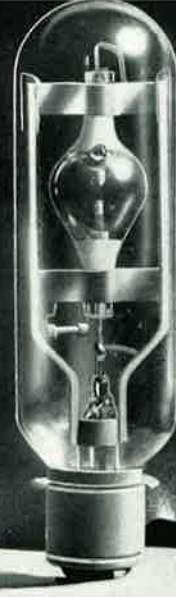
IMPORTANT NOTE.—Mercra Lamps are made to operate only with control gear manufactured or approved by The British Thomson-Houston Co., Ltd.



MERCRA
with Ultra Violet Bulb



MERCRA PROJECTOR LAMPS
for Projection and other special purposes



MERCRA LAMP with ULTRA-VIOLET FILTER BULB

125 watts

This special lamp of the well-known Mercra range has been developed as a highly efficient source of near ultra-violet radiation with a minimum of visible light. The near ultra-violet radiation does not cause sunburning, but has many interesting properties. The most important of these is its power to excite fluorescence and phosphorescence in many substances. Where identification is almost impossible in visible light, many substances can be easily identified by means of such fluorescence. Stains on fabrics often become strikingly evident under this radiation and it is possible to distinguish between apparently similar materials such as natural and artificial gems.

The lamp, with the exception of the outer envelope, may be regarded as similar to the ordinary 125 watt Mercra Lamp. It can be used at any angle and operates on alternating current with a correctly designed choke.

Watts	Cap	A.C. Voltages	Approximate Dimensions		Price each	
			Diam. m/m	Length m/m	s.	d.
125	3-Pin B.C.	200/260	90	178	47	6

MERCRA PROJECTOR LAMPS

Compact Light Source

500 watts

This new Mercra Electric Discharge Lamp of the air-cooled type has a very concentrated light source and is specially suitable for projection and photographic purposes.

The lamp can be supplied fitted with either of two caps, both of which are designed for use in projection or camera apparatus pre-set to a definite focus. It must be operated with suitable control gear manufactured or approved by The British Thomson-Houston Co., Ltd.

Life 500 Hours.

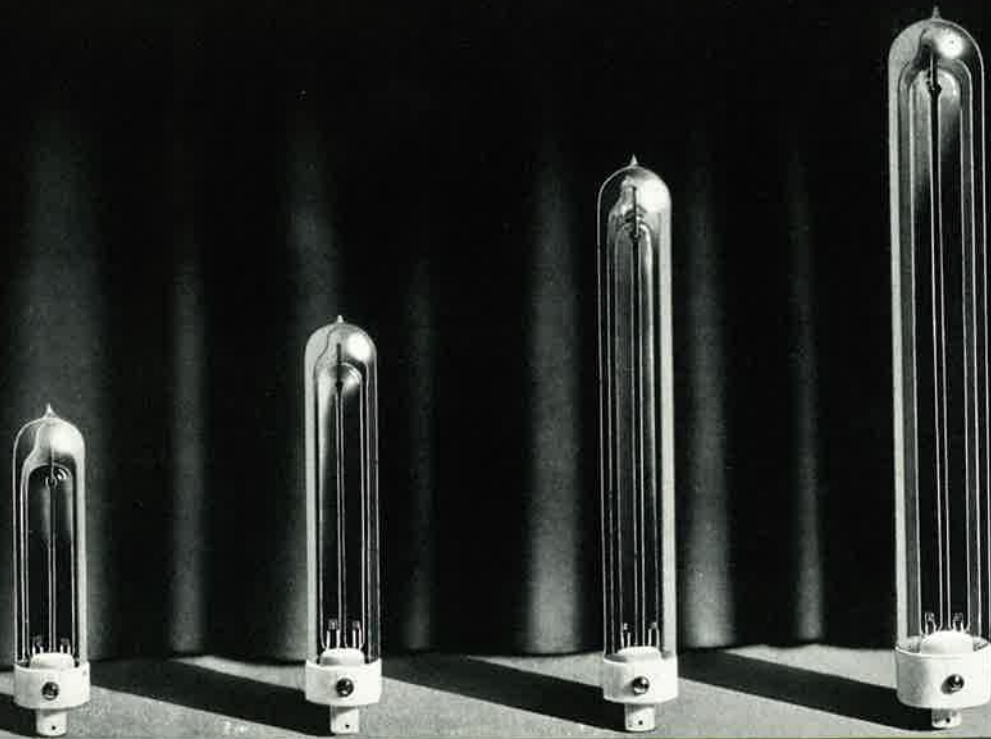
Maximum Initial Lumens Output, 25,000 Lumens.
Initial brightness 20,000 candles per sq. centimetre.

For base down burning.

Watts	A.C. Voltages	Diam. m/m	Length m/m	L.C.L. m/m	Price each
					s. d.
500†	200/260	152.5	232	127	160 0
500††	200/260	65	240	156	150 0

† Round Bulb. Bipost Cap.
†† Tubular Bulb. Goliath Pre-Focus Cap.

IMPORTANT NOTE.—Mercra Lamps are made to operate only with control gear manufactured or approved by The British Thomson-Houston Co., Ltd.



45w.

60w.

85w.

140w.

SODRA LAMPS

45, 60, 85 and 140 watts.

SODRA Lamps are sodium vapour electric discharge lamps primarily designed for street lighting purposes. The Sodra lamp consists of two separate components, an inner arc tube bent into a "U" shape and an outer envelope which is a double walled vacuum flask. At the end of its guaranteed life (2,500 hours) only the arc tube as a rule need be replaced.

The electrodes, which require no separate heating transformers, are mounted one at each end of the inner "U" tube and are treated to give a high electronic emission when incandescent.

A special 2-ply glass is used for the arc tube. A thin sheet of sodium resistant glass, which withstands attack from sodium vapour at high temperatures, is fused to the inner surface of a glass tube which possesses the mechanical properties required by the arc tube as a whole.

As with all discharge lamps some form of auxiliary gear is necessary to limit and stabilise the current when the lamp is operated. For this purpose a high reactance transformer is necessary.

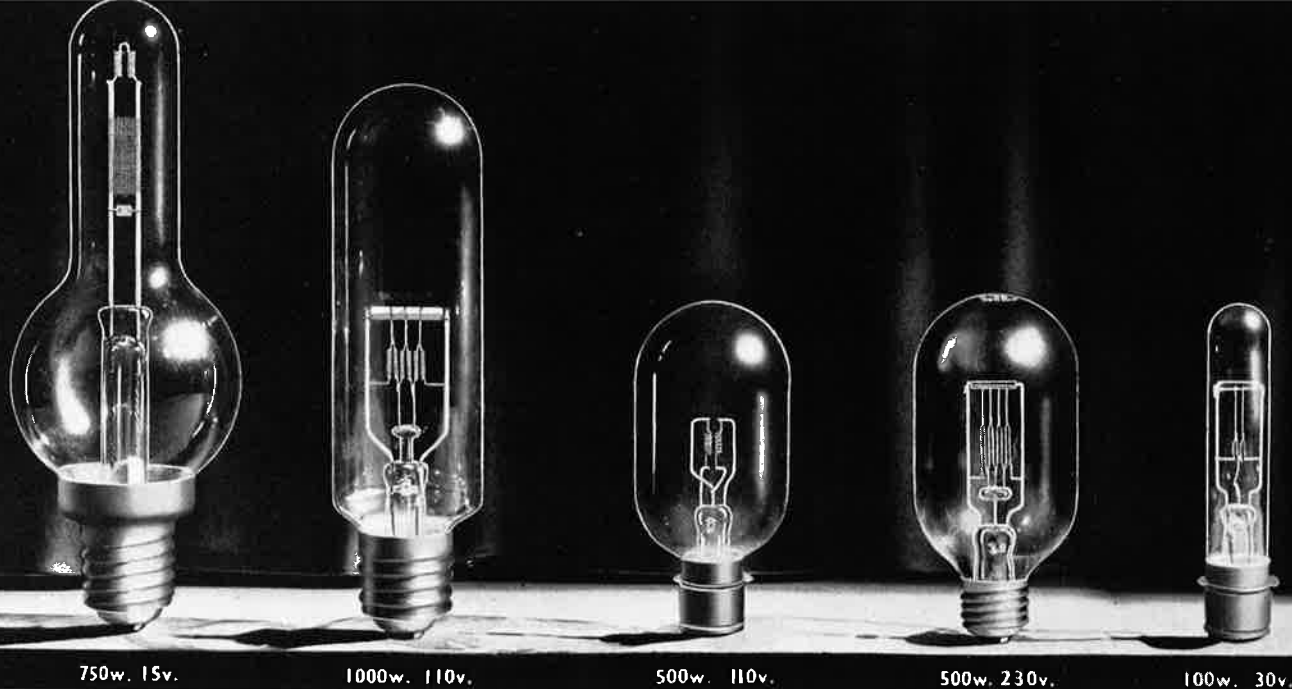
The light given by the Sodra lamp is monochromatic and is orange yellow in colour. It gives a single line spectrum as distinct from the continuous spectrum of the tungsten lamp and the multiline spectrum of mercury vapour discharge lamps.

Standard Cap : B.C. (Ceramic).

Watts	Approx. Dimensions †			Initial Lumens Output Lumens	A.C. Voltages : 100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260					
	Dia. m/m	Length m/m	L.C.L. m/m		Without Jacket		With Detach. Jacket Clear		With Detach. Jacket Natural Colour Special Filter Glass	
					s.	d.	s.	d.	s.	d.
45	50	250	140	2500	32	6	41	0	49	6
60	50	310	170	3900	40	0	50	0	60	0
85	50	425	230	6100	50	0	61	6	73	0
140	65	540	280	10,000	65	0	78	6	92	0

† Including Jacket.

IMPORTANT NOTE. — Sodra Lamps are made to operate only with control gear manufactured or approved by The British Thomson-Houston Co., Ltd.



750w. 15v.

1000w. 110v.

500w. 110v.

500w. 230v.

100w. 30v.

MAZDA PROJECTOR LAMPS

(Class A.I.)

FOR base-down burning in Cinema Projectors, Home Cinema Apparatus, Advertising Projectors, Photo-enlarging Apparatus, etc. They can be brought close to the lens and by use of a short focus condenser, an unusually large proportion of light can be transmitted. For the home cinema the introduction of the prefocus cap has reduced focussing difficulties to a minimum.

VERTICAL GRID FILAMENT.

TUBULAR BULB

MAXIMUM LIFE 100 HOURS

Rating		Standard Cap	Diam. m/m ± 2	Overall Length m/m ± 10	L.C.L.* m/m	Light Source Dimensions		Efficiency Lumens per watt	Total Light Output Lumens	Type of Filament	Price each	
Volts	Watts					Width m/m Max.	Height m/m Max.				s.	d.
15a	750	G.E.S.	64	225	115	10.0	10.0	27	20,250	2 section	43	0
15a	750	G.E.S.	60 [‡]	260	212	10.0	10.0	27	20,250	2 „	50	0 ^c
30	100	Prefocus	25	135	55.5	5.5	4.0	23.5	2,350	4 „ off-set b	11	9
	250	E.S.	32	135	75	8.0	5.5	25	6,250	4 „	22	6
	600	G.E.S.	64	230	120	10.0	9.7	28	16,800	4 „	35	0
	900	G.E.S.	64	230	120	12.0	11.0	29	26,100	4 „	35	0
50	200	Prefocus	32	135	55.5	6.25	6.5	23.5	4,700	4 „ off-set b	22	0
	250	Prefocus	32	135	55.5	6.75	7.0	24	6,000	4 „ off-set b	22	0
	250 [‡]	Prefocus	32	135	55.5	6.50	5.0	26	6,500	1 „ C/C	22	0
	500	E.S. or G.E.S.	64	135	75	15.0	11.0	27	13,500	4 „ off-set b	26	0
52	260 [‡]	Prefocus	32	135	55.5	6.75	7.0	26	6,760	4 „	22	0
60	100	E.S.	25	135	75	4.5	7.0	21	2,100	4 „	12	6
	180	E.S.	32	135	75	6.5	5.0	22.5	4,050	2 „ C/C	17	6
75	375 [‡]	E.S.	32	135	75	8.75	7.25	27	10,125	2 „ C/C	29	0

* Light Centre Length—± 0.5 m/m for Pre-focus; ± 2 m/m for A.S.C.C.; ± 5 m/m for E.S. and G.E.S. This dimension is taken from sole plate of cap to centre of filament for lamps fitted with E.S. or G.E.S. cap. From top surface of fin to centre of filament for pre-focus cap, and from bulb side of pin to centre of filament for A.S.C.C. cap.

a If required for cinema use these lamps may be fitted with a special lead attached to the centre contact of the cap.

b These lamps can also be supplied with centralized filaments.

c If silvered, 265 m/m overall length at 55/- each.

† Life 25 hours. These lamps are designed for use in apparatus providing adequate forced ventilation.

‡ This lamp is for base-up burning and the narrow part of bulb is 32 m/m dia.

NOTE.—In all cases where 135 m/m overall length is specified, this dimension is maximum.

Where E.S. caps are specified extra charge for Medium Prefocus cap 1/6.
Where G.E.S. caps are specified extra charge for Goliath Prefocus cap 2/6.

C/C=Coiled-Coil.



500w. 110v.
Biplane

300w. 110v.

250w. 50v.

200w. 110v.

100w. 110v.

MAZDA PROJECTOR LAMPS (Class A.I.)

VERTICAL GRID FILAMENT

TUBULAR BULB

MAXIMUM LIFE 100 HOURS

Rating		Standard Cap	Diam. m/m ± 2	Overall Length m/m ± 10	L.C.L.* m/m	Light Source Dimensions		Efficiency Lumens per watt	Total Light Output Lumens	Type of Filament	Price each		
Volts	Watts					Width m/m Max.	Height m/m Max.				s.	d.	
100	50	A.S.C.C.	25	70	35	3.25	5.0	16.2	810	2 section C/C	6	6	
	100	A.S.C.C.	25	70	35	4.5	6.0	18.5	1,850	2 " C/C	11	9	
	100	E.S.	25	135	75	4.5	6.0	18.5	1,850	2 " C/C	10	9	
	200†	A.S.C.C.	25	87	35	6.0	6.0	23.5	4,700	2 " C/C	16	9	
	200	E.S.	32	135	75	6.0	6.5	21	4,200	2 " C/C	16	9	
	250	E.S.	32	135	75	6.25	7.0	22	5,500	2 " C/C	20	0	
	300†	A.S.C.C.	25	92	35	6.5	8.25	24	7,200	2 " C/C	25	0	
	300†	E.S.	32	135	75	6.5	8.25	24	7,200	2 " C/C	25	0	
	110	300	E.S.	32	135	75	9.0	8.75	23.5	7,050	6 " "	25	0
	115	400†	Prefocus	32	135	55.5	8.0	7.0	24	9,600	8 " biplane	35	0
		500	Prefocus	32	135	55.5	8.75	9.5	25.5	12,750	2 " C/C	25	0
		500	E.S. or G.E.S.	64	135	75	8.75	9.5	25.5	12,750	2 " C/C	24	0
	200	500†	Prefocus	32	135	55.5	8.5	8.0	25	12,500	8 " biplane	33	9
		750†	Prefocus	38	135	55.5	11.0	9.5	26	19,500	8 " biplane	38	9
		1000	G.E.S.	64	230	120	15.5	13.5	27.5	27,500	6 " "	30	0
1000†		Prefocus	38	135	55.5	12.0	12.0	27.6	27,600	8 " biplane	55	0	
200		100	A.S.C.C.	25	70	35	8.25	7.5	16	1,600	6 " "	11	9
	210	E.S.	25	135	75	8.25	7.5	16	1,600	6 " "	10	9	
	220	A.S.C.C.	25	87	35	10.0	8.0	19	38,000	4 " C/C	16	9	
	230	Prefocus	32	135	55.5	11.0	10.0	22	5,500	8 " "	21	0	
	240	500 Prefocus	32	135	55.5	13.25	12.0	24	12,000	8 " "	25	0	
	250	500 E.S. or G.E.S.	64	135	75	13.25	12.0	24	12,000	8 " "	24	0	
	260	1000 G.E.S.	64	230	120	14.0	18.0	24	24,000	6 " "	30	0	

31/9

* Light Centre Length—± 0.5 m/m for Pre-focus; ± 2 m/m for A.S.C.C.; ± 5 m/m for E.S. and G.E.S. This dimension is taken from sole plate of cap to centre of filament for lamps fitted with E.S. or G.E.S. cap. From top surface of fin to centre of filament for pre-focus cap, and from bulb side of pin to centre of filament for A.S.C.C. cap.

a If required for cinema use these lamps may be fitted with a special lead attached to the centre contact of the cap.

b These lamps can also be supplied with centralized filaments.

c If silvered, 265 m/m overall length at 55/- each.

† Life 25 hours. These lamps are designed for use in apparatus providing adequate forced ventilation.

NOTE.—In all cases where 135 m/m overall length is specified, this dimension is maximum.

Where E.S. caps are specified, extra charge for Medium Prefocus 1/-.
Where G.E.S. caps are specified, extra charge for Goliath Prefocus 2/6.

C/C=Coiled-Coil.



3000w. 110v.



500w. 200v.



100w. 100v.

MAZDA PROJECTOR LAMPS

Spotlights (Class A.2.)

THESE lamps are suitable for use in Stage Limes, Spotlights, etc., and should be burned vertically with cap below. Slight variations of burning angle do not affect the life.

Mazda Class A.2 Projector Lamps are used extensively for various stage lighting purposes in theatres and cinemas, and have also found wide application in Photographic and Film Studios.

VERTICAL GRID FILAMENT ROUND BULB MAXIMUM LIFE 300 HOURS

Rating		Standard Cap	Diam. m/m ± 2	Overall Length m/m ± 10	L.C.L.* m/m ± 5	Light Source Dimensions		Efficiency Lumens per watt	Total Light Output Lumens	Price each	
Volts	Watts					Width m/m	Height m/m			s.	d.
20	80	E.S.	60	90	45	1.25	9.75	20.5	1,640	8	6
	80	S.B.C.	60	90	35	1.25	9.75	20.5	1,640	8	6
	100	E.S.	70	115	80	8.75	8.5	14.5	1,450	10	9
100	250	E.S.	90	160	115	10.25	11.0	18.0	4,500	20	0
	500	G.E.S.	120	250	190	12.5	13.5	20.5	10,250	27	6
110	1000	G.E.S.	150	300	220	17.5	15.0	23.0	23,000	38	0
115	1500	G.E.S.	170	335	250	24.5	18.0	23.0	34,500	52	6
	2000	G.E.S.	200	350	250	21.5	22.0	24.0	48,000	76	0
	3000	G.E.S.	200	350	250	26.5	27.0	24.0	72,000	105	0
200	100	E.S.	70	115	80	10.75	10.0	12.5	1,250	10	9
210	250	E.S.	90	160	115	12.5	12.5	16.5	4,010	20	0
220	500	G.E.S.	120	250	190	15.0	13.5	18.0	9,000	27	6
230	1000	G.E.S.	150	300	220	20.5	14.5	21.0	21,000	38	0
240	1500	G.E.S.	170	335	250	27.0	18.5	22.0	33,000	55	0
250	2000	G.E.S.	200	350	250	22.5	26.5	22.0	44,000	86	0
260	3000	G.E.S.	200	350	250	37.0	23.0	23.0	69,000	115	0

* Light Centre Length—this dimension is from sole plate of cap to centre of filament.



1000w. 200v.

100w. 200v.

MAZDA PROJECTOR LAMPS

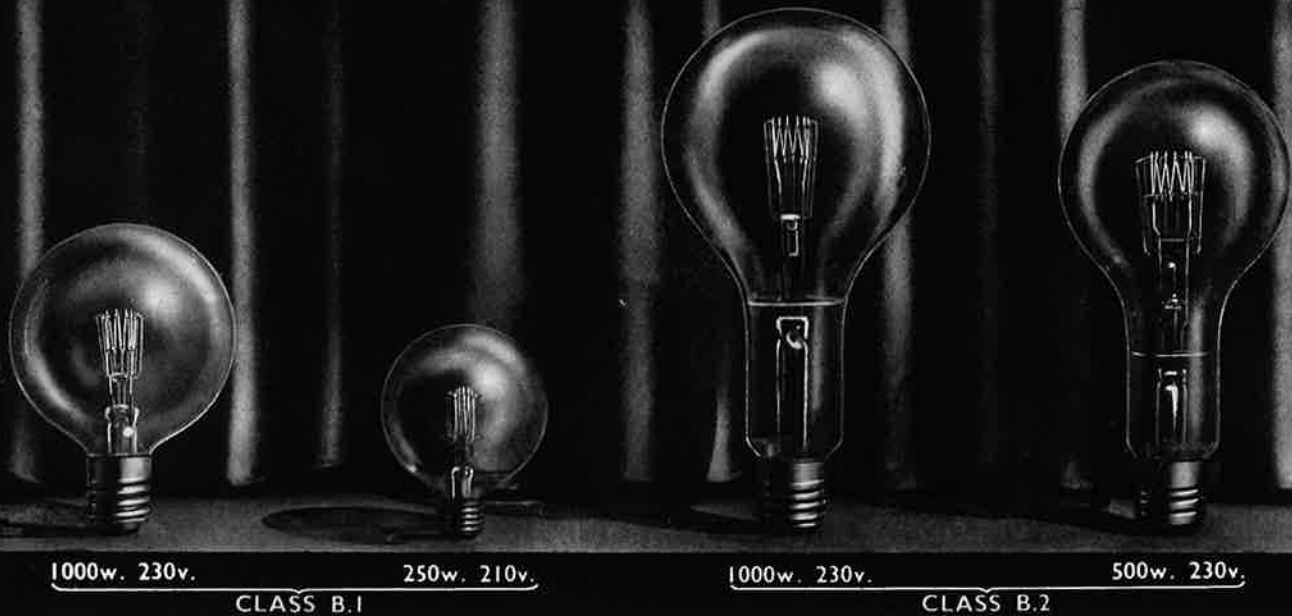
Spotlights (Class A.3.)

THESE lamps are designed to fulfil similar requirements to the A.2 type, but are intended for burning in a horizontal position. Slight variations of burning angle up to about 15° will not affect the life.

HORIZONTAL GRID FILAMENT ROUND BULB MAXIMUM LIFE 300 HOURS

Ratings		Standard Cap	Diam. m/m ± 2	Overall Length m/m ± 10	L.C.L.* m/m ± 5	Light Source Dimensions		Efficiency Lumens per Watt	Total Light Output Lumens	Price each	
Volts	Watts					Width m/m	Height m/m			s.	d.
100, 110, 115	100	E.S.	70	115	95	8.75	8.5	14.5	1,450	10	9
	250	E.S.	90	160	120	10.25	11.0	18.0	4,500	20	0
	500	G.E.S.	120	250	205	12.5	13.5	20.5	10,250	27	6
	1000	G.E.S.	150	300	240	17.0	15.0	23.0	23,000	38	0
	1500	G.E.S.	170	335	270	24.5	18.0	23.0	34,500	52	6
200, 210, 220, 230, 240, 250, 260	100	E.S.	70	115	95	10.75	10.0	12.5	1,250	10	9
	250	E.S.	90	160	120	12.5	12.5	16.5	4,010	20	0
	500	G.E.S.	120	250	205	15.0	13.5	18.0	9,000	27	6
	1000	G.E.S.	150	300	240	20.5	14.5	21.0	21,000	38	0
	1500	G.E.S.	170	335	270	27.0	18.5	22.0	33,000	55	0
	260										

* Light Centre Length—this dimension is from sole plate of cap to centre of filament.



1000w. 230v.

250w. 210v.

1000w. 230v.

500w. 230v.

CLASS B.1

CLASS B.2

MAZDA PROJECTOR LAMPS

Floodlighting (Class B.1.)

THESE lamps are made with concentrated bunch filaments of small area and are particularly suitable for use in conjunction with parabolic mirrors. Employed generally for the floodlighting of tall buildings, hoardings, signs, etc., and may also be used for stage and theatre spot-lighting where long life and reliability are of chief importance.

Class B.1 lamps may be burned in any position except cap uppermost at an angle of 45° or less than vertical.

BUNCH FILAMENT

ROUND BULB

MAXIMUM LIFE 800 HOURS

Ratings		Standard Cap	Diam. m/m ±2	Overall Length m/m ±10	L.C.L.* m/m ±5	Light Source Dimensions		Efficiency Lumens per Watt	Total Light Output Lumens	Price each	
Volts	Watts					Width m/m	Height m/m			s.	d.
100, 105,	100 250 500 1000	E.S.	80	130	75	9.0	9.25	10.5	1,050	9	0
110, 115,		E.S.	95	135	75	11.0	10.0	15.5	3,875	17	6
120, 125,		G.E.S.	130	190	115	13.0	8.5	17.8	8,900	23	0
130		G.E.S.	130	190	115	16.0	16.0	19.0	19,000	30	0
200, 210,	100 250 500 1000	E.S.	80	130	75	10.0	11.5	9.75	975	9	0
220, 230,		E.S.	95	135	75	12.0	12.0	12.0	3,000	17	6
240, 250,		G.E.S.	130	190	115	16.0	13.0	15.5	7,750	23	0
260		G.E.S.	130	190	115	18.0	14.5	17.8	17,800	30	0

* Light Centre Length—this dimension is from sole plate of cap to centre of filament.

Floodlighting (Class B.2.)

Class B.2 lamps fulfil similar purposes to B.1 lamps, but may be burned in any position including cap up.

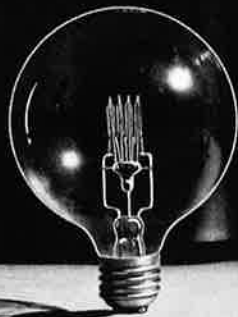
BUNCH FILAMENT

PEAR-SHAPE BULB

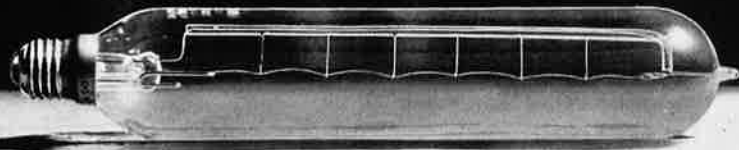
MAXIMUM LIFE 800 HOURS

Ratings		Standard Cap	Diam. m/m ±1.5	Overall Length m/m	L.C.L.* m/m	Light Source Dimensions		Efficiency Lumens per Watt	Total Light Output Lumens	Price each	
Volts	Watts					Width m/m	Height m/m			s.	d.
200, 210,	500 1000	G.E.S.	130	267	202	16.0	13.0	15.5	7,750	23	0
220, 230,		G.E.S.	150	300	225	18.0	14.5	17.8	17,800	30	0
240, 250,											
260											

* Light Centre Length—this dimension is from sole plate of cap to centre of filament.



500w. 230v.
EPIDIASCOPE (Class E)



250w. 110v.
"LINE" FILAMENT TUBULAR

MAZDA PROJECTOR LAMPS

Floodlighting "Line" Filament

MAXIMUM LIFE 800 HOURS

Rating		Cap	Diameter m/m	Overall Length m/m	Price	
Volts	Watts				s.	d.
100, 105, 110,	250 500 1000 1500 2000* 3000	E.S.	56	300	30	0
115, 120, 125,		G.E.S.	90	355	35	0
130, 200,		G.E.S.	90	390	45	0
210, 220,		G.E.S.	90	400	55	0
230, 240,		G.E.S.	90	390	60	0
250, 260		G.E.S.	150	380	100	0

* 200/260 volts only.
These lamps are suitable for vertical or horizontal burning.

Epidiascope (Class E)

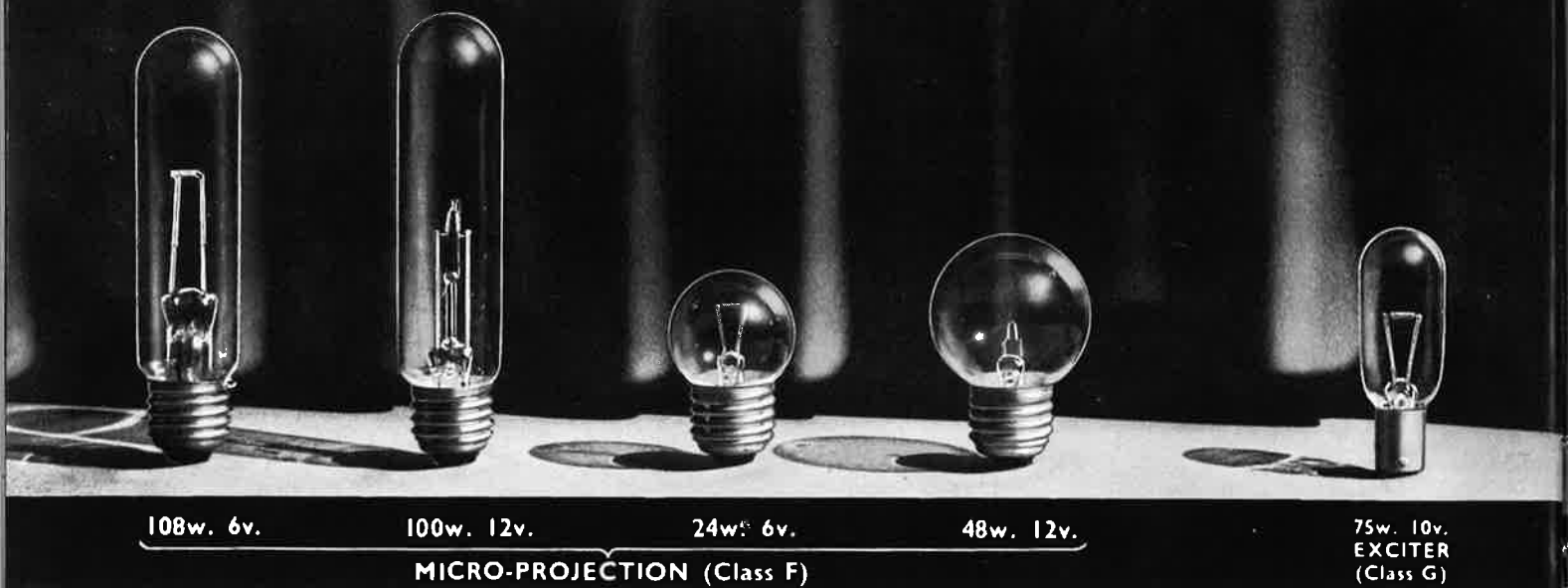
FOR use in episcopes and epidiascope apparatus for the projection of lantern slides, small solid objects, picture book pages, etc., these special lamps are available. They are also suitable for spotlight and shop window projectors which have to be rotated through wide angles. Can be used in any position up to 45° from vertical, cap downwards.

GRID FILAMENT

MAXIMUM LIFE 100 HOURS

Ratings		Standard Cap	Diam. m/m ± 2	Overall Length m/m ± 10	L.C.L.* m/m ± 5	Light Source Dimensions		Efficiency Lumens per Watt	Total Light Output Lumens	Price each s. d.
Volts	Watts					Width m/m	Height m/m			
100, 110, 115	250	E.S.	100	150	85	8.5	10.5	22.0	5,500	25 0
	500	E.S.	100	150	85	12.0	11.8	24.0	12,000	30 0
200, 210, 220, 230, 240, 250, 260	250	E.S.	100	150	85	11.0	10.0	22.0	5,500	25 0
	500	E.S.	100	150	85	13.2	12.8	24.0	12,000	30 0

* Light Centre Length—this dimension is from sole plate of cap to centre of filament.
Class "E" Lamps can also be supplied with G.E.S. caps.



MAZDA PROJECTOR LAMPS

Micro-Projection (Class F)

THESE 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 F PROJECTORS (below 20 volts).

MAXIMUM LIFE 100 HOURS.

Rating		Standard Cap	Diam. m/m ± 2	Overall Length m/m ± 10	L.C.L.* m/m ± 5	Type of Bulb	Type of Filament	Price each	
Volts	Watts							s.	d.
4	8	S.E.S.	35	62	52	Round	Horizontal Helix	3	9
6	24	E.S.	38	60	50	"	"	3	9
6	54§	E.S.	25	85	44	Tubular	Horizontal Tungsten Ribbon	20	0
6	108§	E.S.	32	135	75	Tubular	Horizontal Tungsten Ribbon †	30	0
12	24	S.B.C.	38	55	45	Round	Horizontal Helix	3	9
12	48	E.S.	50	70	40	Round	Twin Pillar	3	9
12	100	E.S.	32	135	75	Tubular ‡	Twin Pillar	10	9
12	300	G.E.S.	64	135	75	Tubular	Twin Pillar	32	6

* Light Centre Length—this dimension is from sole plate of cap to centre of filament. † Can be supplied with vertical tungsten ribbon filament.
 ‡ This lamp can also be supplied in 60 m/m Round Bulb, 85 m/m overall length, L.C.L. 55 m/m at 12/-.
 § Made in U.S.A.

Exciter (Class G)

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

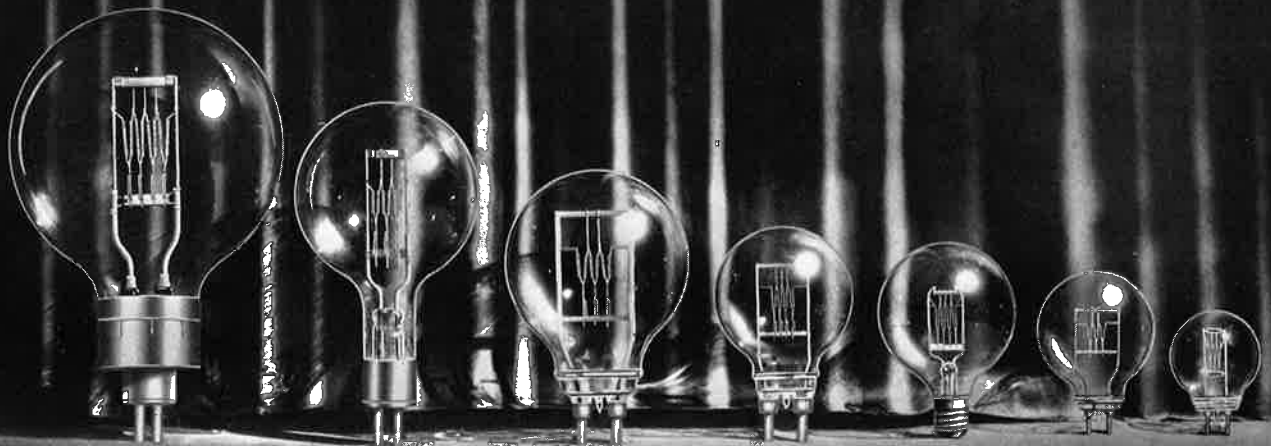
HORIZONTAL HELIX FILAMENT

MAXIMUM LIFE 100 HOURS.

Rating		Standard Cap	Diameter ± 1 m/m	Length ± 2 m/m	Filament Centre* ± 1.5 m/m	Price each	
Volts	Watts					s.	d.
8	32	A.S.C.C.	26	76	50 †	5	6
8.5	34	A.S.C.C.	26	76	56	6	0
10	50	A.S.C.C.	26	76	47.5	7	6
10	75	A.S.C.C.	26	76	47.5	7	6

* This dimension is from cap centre contact plate to centre of filament.

† This lamp can be supplied with a light centre length of 56 m/m. Lamp must be burned vertically, cap down.



10,000w. 110v.
Prong

5000w. 110v.
Prong

5000w. 110v.
Bipost

2000w. 110v.
Bipost

2000w. 110v.
G.E.S.

1000w. 110v.
Med. Bipost

500w. 110v.
Med. Bipost

MAZDA PROJECTOR LAMPS FOR MOTION PICTURE PRODUCTION

Studio Spotlights

FLAT GRID FILAMENT

**LIFE: 500 & 1000 W. Med. Bipost 100 Hrs. 1000 & 2000 W. 200 Hrs.
3000, 5000 & 10,000 W. 100 Hrs.**

Ratings		Standard Cap	Diam. m/m ± 2	Overall Length m/m ± 10	L.C.L.* m/m ± 5	Light Source Dimens.		Efficiency Lumens per Watt	Total Light Output Lumens	Price each	
Volts	Watts					Width m/m	Height m/m			s.	d.
100, 105, 110, 115, 120, 125, 130	500	Med. Bipost	95	138	63.5†	14.25	13.5	22	11,000	32	6
	1000	Med. Bipost	130	184	88†	15.0	14.5	24	24,000	55	0
	1000	Bipost	152.5	232	127†	15.0	14.5	24	24,000	55	0
	2000	Bipost	152.5	232	127†	24.0	21.0	26	52,000	85	0
	2000	G.E.S.	152.5	220	134	21.5	22.0	26	52,000	85	0
	2000	G.E.S.	152.5	220	134	21.5	22.0	26	52,000	85	0
200, 210, 220, 230, 240, 250, 260	500	Med. Bipost	95	138	63.5†	13.25	13.0	21	10,500	32	6
	1000	Med. Bipost	130	184	88†	14.0	18.5	22	22,000	55	0
	1000	Bipost	152.5	232	127†	14.0	18.5	22	22,000	55	0
	2000	Bipost	152.5	232	127†	27.0	18.5	22	44,000	85	0
	2000	G.E.S.	152.5	220	134	20.0	26.5	22	44,000	85	0
	2000	G.E.S.	152.5	220	134	20.0	26.5	22	44,000	85	0
100, 105, 110, 115, 120, 125, 130	3000	G.E.S.	200	350	250	26.5	27.5	24	72,000	105	0
	3000	G.E.S.	200	350	250	26.5	27.5	24	72,000	105	0
200, 210, 220, 230, 240, 250, 260	3000	G.E.S.	200	350	250	37.0	23.0	23	69,000	115	0
	5000	Bipost	203	295	165†	37.0	35.0	27	135,000	300	0
100, 105, 110, 115, 120, 125, 130	5000	Bipost	203	295	165†	38.0	27.5	28	140,000	300	0
	5000§	Prong	203	394	228†	36.0	30.0	28	140,000	300	0
	10000§	Prong	254	500	305†	40.0	30.0	29.5	295,000	400	0

* Light Centre Length—this dimension is from sole plate of cap to centre of filament for G.E.S. caps only.
† The light centre length of this lamp is exclusive of base prongs, base prong being the small diameter of metal post.
§ These lamps are made in U.S.A. ‡ This dimension is from base of brass collar to centre of filament.

MAZDA PROJECTOR LAMPS FOR MOTION PICTURE PRODUCTION

THE high wattage lamps listed on this and the previous page 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.

Broadside

STAGGERED SPIRAL FILAMENT

LIFE 1000 HOURS

Rating		Standard Cap	Diameter m/m	Overall Length m/m	L.C.L. m/m*	Efficiency Lumens per watt	Total Light Output Lumens	Price each	
Volts	Watts							s.	d.
100, 105, 110, 115, 120, 125, 130	1500	G.E.S.	170	330	240	21.0	31,500	22	6
	2500§	G.E.S.	170	330	240	22.0	55,000	60	0

These lamps burn at any angle, including cap up.

* This dimension is from sole plate of cap to centre of filament.

§ Made in U.S.A.

"Line" Filament

MAXIMUM LIFE 800 HOURS

Rating		Cap	Diameter m/m	Overall Length m/m	Price	
Volts	Watts				s.	d.
100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260	250	E.S.	56	300	30	0
	500	G.E.S.	90	355	35	0
	1000	G.E.S.	90	390	45	0
	1500	G.E.S.	90	400	55	0
	2000*	G.E.S.	90	390	60	0
	3000	G.E.S.	150	380	100	0

* 200/260 volts only.

These lamps are suitable for vertical or horizontal burning.

Mercra Projector (Electric Discharge) Lamps

INITIAL BRIGHTNESS 20,000 CANDLES PER SQ. CENTIMETRE. LIFE 500 HRS.

For base down burning.

A.C. Voltage	Watts	Cap	Diam. m/m	Overall length m/m	L.C.L. m/m	Efficiency Lumens per watt	Total Light Output Lumens	Price each	
								s.	d.
200, 210, 220, 230, 240, 250, 260	500	Bipost (Round Bulb)	152.5	232	127	50	25,000	160	0
		Prefocus (Tubular Bulb)	65	240	156	50	25,000	150	0

For illustrations and other particulars, see page 30.



1500w.
BROADSIDE



1000w.
"LINE" FILAMENT
TUBULAR



FLASHLIGHT
0.3 AMP. 3.5 VOLT.
M.E.S. Cap

MINERS' CAP & HANDLAMP BULBS

1.0 AMP. 2.0 VOLT.	1.5 AMP. 2.5 VOLT.	1.5 AMP. 2.5 VOLT.	0.75 AMP. 4.0 VOLT.	1.0 & 0.75 AMP. 2.5 VOLT.
Cap E.10	Cap E.14	Cap 953	Peg Cap	Cap B.A. 15d/21
(Category 1)	(Category 1)	(Category 1)	(Category 1)	(Category 2)

MAZDA FLASHLIGHT BULBS

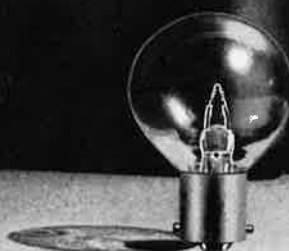
Vacuum

STANDARD FLASHLIGHTS—WAVE FILAMENTS					
Voltages	Amps.	Cap	Diameter		Prices on application
			m/m	ins.	
2.5	0.2	M.E.S.	12	0.47	
3.5	0.3	"	15	0.59	

MINERS' CAP & HANDLAMP BULBS

For use in	Ratings		Diameter		Overall Length		Standard Caps †	Price each	
	Volts	Amps.	m/m	ins.	m/m	ins.		Clear s. d.	Pearl s. d.
MINES DEPARTMENT, CATEGORY 1 (B.S.S. 535)									
Cap Lamp	2.0	1.0	18	0.71	31	1.22	E.10	1 6a	—
Hand Lamp	2.5f	1.5	25	0.98	{ 52 50	{ 2.05 1.97	{ E.14 953	1 6	1 6
Hand Lamp	2.5f	1.75	25	0.98	{ 52 50	{ 2.05 1.97	{ E.14 953	1 6	1 6
Cap Lamp	4.0	0.55 & 0.55	25	0.98	48	1.89	B.A. 15d.	2 0	2 0
Hand Lamp	4.0f	0.75	26	1.02	{ 44 (47b)	{ 1.73 1.85	{ E.14 C.E.A.G. Peg	1 6	1 6
Hand Lamp	4.0f	1.0	28	1.10	51	2.01	{ E.14 C.E.A.G. }	1 6	1 6
MINES DEPARTMENT, CATEGORY 1 (KRYPTON FILLED)									
Hand Lamp	2.5f	1.5	17	0.67	{ 43.5 45.5	{ 1.71 1.80	{ E.14 953	1 11	1 11
Hand Lamp	2.5f	1.75	17	0.67	{ 43.5 45.5	{ 1.71 1.80	{ E.14 953	1 11	1 11
Hand Lamp	4.0f	0.75	17	0.67	{ 45.5 47.5	{ 1.80 1.87	{ E.14 Peg	1 11	1 11
Hand Lamp	4.0f	1.0	17	0.67	45.5	1.80	E.14	1 11	1 11
MINES DEPARTMENT, CATEGORY 2									
Cap Lamp	2.0	0.85	21	0.83	28.5c	1.12	E.10	1 10a	—
Cap Lamp	2.0	0.85	26	1.02	44	1.73	E.14	1 6	1 6
Cap Lamp	2.5	0.5	18	0.71	31	1.22	E.10	1 8	—
Cap Lamp	2.5	1.0	21	0.83	34e	1.34	E.10	1 10	1 10
Cap Lamp	2.5	1.0	25	0.98	46.5e	1.85	953	1 10	1 10
Cap Lamp	2.5	1.0	26	1.06	{ 44 42	{ 1.73 1.65	{ E.14 953	1 8	1 8
Cap Lamp	2.5	1.0 & 0.75	25	0.98	48	1.89	B.A. 15d.	2 6	2 6
Cap Lamp	2.5	1.25	21	0.83	34	1.34	E.10	1 10	—
Cap Lamp	4.0	0.65	18	0.71	31	1.22	E.10	1 8a	—

† E.14 = E.14/23 × 15 = S.E.S. E.10 = E.10/13 = M.E.S. 953 = S.C.C. B.A. 15d./21 = S.B.C.
 (a) May be supplied $\frac{1}{2}$ externally frosted without extra charge. (b) With Pip. (c) Squat Bulb. (e) Round Bulb.
 (f) May be supplied with fuse in the cap without extra charge.



Single Fil. Head
"Regulation"
S.C.C.

Dble. Fil. Head
"Regulation"
S.B.C.

Single Fil. Head
S.C.C.

Dble. Fil. Head
Reflector Type
S.B.C.

MAZDA CAR BULBS

Simplified Series

IN the schedule on this and the next page are listed the bulbs in most frequent demand which meet the requirements of the vast majority of cars used in this country. For convenience of ordering each bulb is designated by a catalogue number. Full information on the complete range of Mazda Car Bulbs, including the Simplified Series listings, is given on pages 44, 45, 46, 47 and 48.

MAZDA "REGULATION" HEADLIGHT BULBS

"U" Filament, Patent No. 352063

This bulb when correctly set, focussed and maintained in an ordinary non-dipping headlamp complies with M.O.T. Statutory Rules and Orders, 1936, No. 392 Road Traffic and Vehicles.

Mazda Regulation Bulbs provide a flat beam complying with the law and giving ample light for the average motorist. The Single "U" Filament Bulb gives a safe light without dipping or manipulation. The Double Filament Bulb provides in addition an alternative beam covering the tree tops, etc., for occasional use at high speed where desired.

Catalogue No.	Volts	Watts	Cap	Approximate Dimensions		Price Clear	
				Diam. m/m	Length m/m	s.	d.
Single "U" Filament							
M 15	6	24	} S.C.C. }	38	58	2	3
M 16	12	36		38	58	2	3
M 17	12	48		38	58	3	3
M 18	12	60		50	63	4	3
Double Filament "U" and "V"							
M 25	6	18 & 24	} S.B.C. }	38	58	3	3
M 26	12	24 & 36		38	58	3	3

Catalogue No.	Volts	Watts	Cap	Approximate Dimensions		Price Clear	
				Diam. m/m	Length m/m	s.	d.
HEADLIGHTS—Single "V" Filament							
M 35	6	18	} S.C.C. }	38	58	2	0
M 36	6	24		38	58	2	0
M 37	6	36		38	58	3	0
M 38	12	36		38	58	2	0
M 39	12	48		38	58	3	0
M 40	12	60		50	63	4	0



Dble. Fil. Head
12 o/c Type
S.B.C.

Dble. Fil. Head
Bi-focal
S.B.C.

Stoplight
S.B.C.

Side, Tail
and Dash
S.C.C.

Indicator
M.E.S.

Festoon or
Trafficator

MAZDA CAR BULBS

Simplified Series

Catalogue No.	Volts.	Watts	Cap.	Approx. Dimensions		Price Clear. s. d.	
				Diam. m/m	Length m/m		
HEADLIGHTS—Double Filament—with internal reflectors							
M 45	6	24 & 18	} S.B.C.	{	40	63	3 3
M 46	12	36 & 24			40	63	3 3
HEADLIGHTS—Double Filament—Bi-focal							
M 50	6	24 & 18	} S.B.C.	{	38	58	3 0
M 51	6	24 & 24			38	58	2 9
M 52	12	36 & 24			38	58	3 0
HEADLIGHTS—Double Filament—12 o/c Type							
M 55	6	18 & 18	} S.B.C.	{	38	58	3 0
M 56	6	24 & 24			38	58	2 9
M 57	6	36 & 24			38	58	2 9
M 58	12	24 & 24			38	58	3 9
M 59	12	36 & 24			38	58	3 0
SIDE, TAIL and DASH LIGHTS							
M 65	6	3	} S.C.C.	{	18	35	1 0
M 66	12	6			18	35	1 0
STOPLIGHTS							
M 70	6	18 & 3	} S.B.C.	{	25	48	2 0
M 71	12	18 & 3			25	48	2 6
INDICATOR LIGHTS							
M 75	6	1.8	M.C.C.	}	12 m/m	Flat Bulb	1 6
M 76	6	3	} M.E.S.		15	28	1 0
M 77	12	2.4			15	28	1 0
M 78	12	3.6	M.C.C.		12 m/m	Flat Bulb	1 6
FESTOON or TRAFFICATOR LIGHTS							
M 80	6	3	—	7.5	35.5	1 6	
M 81	6	6	—	11	38	1 9	
M 82	12	3	—	7.5	35.5	1 6	
M 83	12	6	—	11	38	1 9	



36w. 6v.
Single "LINE" Fil.



36w. 6v.
Single "V" Fil.



18 & 18w. 6v.
Depressable Beam



24 & 24w. 12v.
Depressable Beam



36 & 24w. 12v.
Reflector Type

MAZDA CAR BULBS—Complete Range—For British Cars HEADLIGHTS

Volts	Watts	Cap	Diameter		Length		Clear s. d.	Daylight s. d.	Cadmium s. d.
			m/m	ins.	m/m	ins.			
SINGLE FILAMENT—"Line" or "V"									
4	6*	S.C.C.	38	1.50	58	2.28	2 9	—	—
			38	1.50	58	2.28	2 9	—	—
6	6*		38	1.50	58	2.28	2 8	—	—
			38	1.50	58	2.28	2 5	—	—
			38	1.50	58	2.28	2 0	—	—
			38	1.50	58	2.28	2 0	2 6	2 6
			38	1.50	58	2.28	2 6	—	—
			38	1.50	58	2.28	3 0	—	3 9
12	12		38	1.50	58	2.28	2 11	—	—
			38	1.50	58	2.28	2 0	—	2 6
		38	1.50	58	2.28	2 0	2 6	2 6	
		38	1.50	58	2.28	3 0	3 9	3 9	
13.5	24	B.C., S.B.C. or S.C.C.	38	1.50	58	2.28	2 1	—	2 7
			38	1.50	58	2.28	2 1	—	2 9
24	24	S.C.C.	38	1.50	58	2.28	2 7	—	—
			38	1.50	58	2.28	2 7	—	—
			38	1.50	58	2.28	3 5	—	—
DOUBLE FILAMENT									
6	12 & 3 12 & 12 18 & 3 18 & 18 24 & 18 24 & 24 30 & 30 36 & 24 36 & 36	S.B.C. or A.S.B.C.	38	1.50	58	2.28	3 6	4 4	—
			38	1.50	58	2.28	3 6	—	—
			38	1.50	58	2.28	3 3	4 1	—
			38	1.50	58	2.28	3 0	—	—
			38	1.50	58	2.28	3 0	3 9	3 9
			38	1.50	58	2.28	2 9	3 5	3 5
			38	1.50	58	2.28	4 6	—	—
			38	1.50	58	2.28	2 9	—	—
			38	1.50	58	2.28	3 0	—	—
			12	24 & 6 24 & 24 36 & 6 36 & 24 36 & 36	S.B.C. or A.S.B.C.	38	1.50	58	2.28
38	1.50	58				2.28	3 9	—	—
38	1.50	58				2.28	3 6	—	—
38	1.50	58				2.28	3 0	—	—
38	1.50	58				2.28	5 0	—	—
DOUBLE FILAMENT—with internal reflectors †									
6	6 & 6 12 & 12 18 & 18 24 & 18 30 & 24 36 & 24	Bosch or S.B.C.	40	1.57	63	2.48	4 3	—	—
			40	1.57	63	2.48	3 6	—	—
			40	1.57	63	2.48	3 6	—	—
			40	1.57	63	2.48	3 3	4 1	4 1
			40	1.57	63	2.48	4 0	—	—
			40	1.57	63	2.48	4 0	—	—
12	24 & 24 36 & 24	S.B.C.	40	1.57	63	2.48	3 6	—	—
			40	1.57	63	2.48	3 3	4 1	4 1
13.5	24 & 24 36 & 24	S.B.C.	40	1.57	63	2.48	3 7	—	—
			40	1.57	63	2.48	3 7	—	4 3
24	36 & 24	S.B.C.	40	1.57	63	2.48	4 0	—	—
DOUBLE FILAMENT WITH DEPRESSABLE BEAM—"12 O'CLOCK" TYPE									
6	12 & 12 18 & 18 24 & 24 30 & 30 36 & 24	S.B.C. or A.S.B.C.	38	1.50	58	2.28	3 6	—	—
			38	1.50	58	2.28	3 0	—	—
			38	1.50	58	2.28	2 9	3 5	3 5
			38	1.50	58	2.28	4 6	—	—
			38	1.50	58	2.28	2 9	—	—
12	24 & 24 36 & 24 36 & 36	S.B.C. or A.S.B.C.	38	1.50	58	2.28	3 9	—	—
			38	1.50	58	2.28	3 0	—	—
			38	1.50	58	2.28	5 0	—	—

CAPS: Except where specified in the tabulations, the following extra charges for alternative caps are made: For B.C., S.B.C., A.S.B.C., A.S.C.C., E.S., or S.E.S. 1d. each extra. For Bosch 3d. each extra. For Prefocus 6d. each extra.

* Line filament only. Satin etching: No extra for Double Filament, Reflector Type Bulbs. All other bulbs 1d. each extra.

† Single filament 6 volt, 24 watt, or 12 volt, 36 watt only (without main driving filament) 4/-.

‡ Also Bifocal at same prices.

MAZDA CAR BULBS—Complete Range

For British Cars

“REGULATION” HEADLIGHTS

This Bulb, when correctly set, focussed, and maintained in an ordinary non-dipping headlamp, complies with M.O.T. Statutory Rules and Orders 1936, No. 392, Road Traffic and Vehicles.

The unique formation of the filament of the Mazda “Regulation” headlight bulb results in a flat topped beam which, whilst providing the necessary non-dazzling effect, does not appreciably lessen the length of the main driving beam. Therefore, by using these bulbs you will be completely equipped with safety lighting which requires no manipulation of any sort.

No need to change the existing lighting equipment, or to re-adjust the wiring of any vehicle. Simply fit Mazda “Regulation” bulbs. By so doing, the element of danger to oncoming motorists, cyclists, and pedestrians is reduced to a minimum as all dazzle and glare is eliminated, and full compliance with the law is ensured.

The Mazda “Regulation” Bulb undoubtedly provides the simplest and cheapest method of converting fixed reflector type headlamps. The “Regulation” U filament is covered by Pat. No. 352063.

SINGLE “U” FILAMENT

Volts	Watts	Cap †	Approx. Dimensions				Price Clear*	
			Diam.		Length		s.	d.
			m/m	ins.	m/m	ins.		
6	24	S.C.C.	38	1.50	58	2.28	2	3
6	36		38	1.50	58	2.28	3	3
12	36		38	1.50	58	2.28	2	3
12	48		38	1.50	58	2.28	3	3
12	60		50	1.97	63	2.48	4	3
13.5	36	B.C., S.B.C. or S.C.C.	38	1.50	58	2.28	2	4

* Tip Frosting 1d. each extra.

† Except where specified in the tabulation, the following extra charges for alternative caps are made: for B.C., S.B.C., A.S.B.C., E.S. or S.E.S. 1d. each extra. For Bosch Cap 3d. each extra.

Double filament “Regulation” Headlight bulbs are now available and may be described as follows:—

The essential difference between the “Regulation” and other less efficient double filament bulbs is that the ANTI-DAZZLE BEAM is almost as long as the main driving light, whereas in earlier types the alternative to the full light was nothing more than a short dipped beam.

This new bulb is a development of the well-known Mazda Single “U” Filament Regulation lamp, which provides a flat top beam complying with the M.O.T. Regulations. The “U” Filament is now combined with a horizontal “V” Filament so as to provide the maximum illumination for high speeds on occasions when the road is clear, with a flat topped beam for normal running.

DOUBLE FILAMENT “U” & “V”

Volts	Watts		Cap †	Approximate Dimensions				Price Clear*	
	Regulation Light	Full Light		Diameter		Length		s.	d.
				m/m	ins.	m/m	ins.		
6	18	24	S.B.C. or A.S.B.C.	38	1.50	58	2.28	3	3
6	24	24		38	1.50	58	2.28	3	0
6	24	36		38	1.50	58	2.28	3	0
12	24	36		38	1.50	58	2.28	3	3

* Tip Frosting 1d. each extra.

† For Bosch Cap 3d. each extra.



36w. 12v.
“REGULATION”
Single Fil.

No dazzle
No dipping



36 & 24w. 12v.
“REGULATION”
Double Fil.



18 & 3w. 12v.
STOPLIGHT

4w. 12v.
SIDE, TAIL & DASH

6w. 12v.
TUBULAR

6w. 12v.
FESTOON OR TRAFFICATOR

2.4w. 12v.
INDICATOR

MAZDA CAR BULBS—Complete Range—For British Cars

Volts	Watts	Cap	Diam.		Length		Price	
			m/m	ins.	m/m	ins.	s.	d.
SIDE, TAIL, and DASH LIGHTS								
2.4	1.2 1.92	M.E.S.	18	0.71	35	1.38	1	8
			18	0.71	35	1.38	1	8
3	2	S.C.C.	18	0.71	35	1.38	1	8
4	3		18	0.71	35	1.38	1	8
6	3 6		18	0.71	35	1.38	1	0
			18	0.71	35	1.38	1	2
8	4	18	0.71	35	1.38	1	8	
12	4 6	S.C.C.	18	0.71	35	1.38	1	3
			18	0.71	35	1.38	1	0
24	6	B.C., S.B.C. or S.C.C.	22	0.87	37	1.46	1	8
STOPLIGHTS								
6	12	S.C.C.	25	0.98	48	1.89	2	0 ^{††}
6	18 & 3	S.B.C.	25	0.98	48	1.89	2	0 ^{††}
12	18 & 3		25	0.98	48	1.89	2	6 ^{††}
INDICATOR LIGHTS								
4	2	M.E.S.	15	0.59	28	1.10	1	6
6	1	M.C.C.	11	0.43	24	0.95	1	6
6	1.8	M.E.S. or M.C.C.	12 m/m Flat Bulb				1	6
6	2.5	M.C.C.	14	0.55	27	1.06	1	6
6	3	M.E.S.	15	0.59	28	1.10	1	0
8	1.6		15	0.59	28	1.10	1	6
12	2.4	M.C.C.	15	0.59	28	1.10	1	0
12	2.4		14	0.55	27	1.06	1	3
12	3.6	M.E.S. or M.C.C.	12 m/m Flat Bulb				1	6
16	3	M.E.S.	15	0.59	28	1.10	1	6
FESTOON OR TRAFFICATOR LIGHTS								
4	3	—	7.5	0.30	36	1.42	2	0
6	3	—	7.5	0.30	36	1.42	1	6
6	6	—	11	0.43	38	1.50	1	9
6	6	—	11	0.43	44	1.73	2	0
12	3	—	7.5	0.30	36	1.42	1	6
12	6	—	11	0.43	38	1.50	1	9
12	6	—	11	0.43	44	1.73	2	0
TUBULAR								
12	6	S.B.C. or S.C.C.	18	0.71	52	2.05	2	9
12	12		18	0.71	75	2.95	3	5
DOME LIGHT								
6	6	S.B.C. or S.C.C.	28	1.10	30	1.18	2	6
12	9		28	1.10	30	1.18	2	9
BULBS FOR CYCLE SETS †								
6	0.5 amps.	S.C.C.	18	0.71	35	1.38	1	0
6.5	0.3	M.C.C.	11 round	—	—	—	1	0
8	0.05	M.E.S.	15	0.59	28	1.10	1	0
8	0.45	M.E.S.	15	0.59	28	1.10	1	0
8	0.5	M.E.S.	15	0.59	28	1.10	1	0
10	0.05	M.E.S.	15	0.59	28	1.10	1	0
10	0.4	M.E.S.	15	0.59	28	1.10	1	0
10	0.45	M.E.S.	15	0.59	28	1.10	1	0
12	0.23	M.E.S.	18	0.71	—	—	1	0

†† A.S.B.C. cap with offset pins 3d. extra. † May be supplied with clear or satin etched bulbs as desired.



36w. 6v.
Single Fil. A.S.B.C. Cap



24 & 24w. 6v.
D'ble Fil. Prefocus Cap



12 & 12w. 6v.
D'ble Fil. A.S.B.C. Cap



30 & 30w. 6v.
D'ble Fil. A.S.B.C. Cap

HEADLIGHTS—American

MAZDA CAR BULBS For American Cars

Volts	Watts	Cap	Approximate Dimensions				Price each	
			Diameter		Length		Clear	
			m/m	ins.	m/m	ins.	s.	d.
SINGLE FILAMENT HEADLIGHTS								
6	6 12 18 24 30 36	A.S.B.C. or A.S.C.C.	38	1.50	58	2.28	2	9
			38	1.50	58	2.28	2	6
			38	1.50	58	2.28	2	1
			38	1.50	58	2.28	2	1
			38	1.50	58	2.28	2	7
			38	1.50	58	2.28	3	1
12	12 24 36 48 60	A.S.B.C. or A.S.C.C.	38	1.50	58	2.28	3	0
			38	1.50	58	2.28	2	1
			38	1.50	58	2.28	2	1
			38	1.50	58	2.28	3	1
			38	1.50	58	2.28	3	1
			50	1.97	63	2.48	4	1
DOUBLE FILAMENT HEADLIGHTS								
6	12 & 3 18 & 3 24 & 18 36 & 24	A.S.B.C.	38	1.50	58	2.28	3	6
			38	1.50	58	2.28	3	3
			38	1.50	58	2.28	3	0
			38	1.50	58	2.28	2	9
			38	1.50	58	2.28	3	6
12	24 & 6 36 & 6	A.S.B.C.	38	1.50	58	2.28	3	6
			38	1.50	58	2.28	3	6
DOUBLE FILAMENT PRE-FOCUSSED HEADLIGHTS								
6	24 & 18 24 & 24	Prefocus	34	1.34	55	2.17	3	6
			34	1.34	55	2.17	3	3
DOUBLE FILAMENT WITH DEPRESSABLE BEAM								
6	12 & 12 18 & 18 24 & 24 30 & 30	A.S.B.C.	38	1.50	58	2.28	3	6
			38	1.50	58	2.28	3	0
			38	1.50	58	2.28	2	9
			38	1.50	58	2.28	4	6
SIDE, TAIL AND DASH LIGHTS								
2.4	1.2 1.92	M.E.S.	18	0.71	35	1.38	1	8
			18	0.71	35	1.38	1	8
3	2	A.S.B.C. or A.S.C.C.	18	0.71	35	1.38	1	9
4	3		18	0.71	35	1.38	1	9
6	3 6		18	0.71	35	1.38	1	1
			18	0.71	35	1.38	1	3
8	4		18	0.71	35	1.38	1	9
12	4 6		18	0.71	35	1.38	1	4
		18	0.71	35	1.38	1	1	

Note:—For particulars of Interior and Stop Lights see particulars on page 46.



24w. 6v.
Single Fil.
3-Pin C.C. Cap

24 & 24w. 12v.
D'ble Fil. Reflector Type
3-Pin B.C. Cap

36w. 12v.
Single Fil.
Bosch Cap

36 & 24w. 12v.
D'ble Fil. Reflector Type
Bosch Cap

HEADLIGHTS—French

HEADLIGHTS—German & Italian

MAZDA CAR BULBS For French Cars

Volts	Watts	Cap	Approximate Dimensions				Price each	
			Diameter		Length			
			m/m	ins.	m/m	ins.	s.	d.
SINGLE FILAMENT HEADLIGHTS								
6	24	3 Pin C.C.	38	1.50	58	2.28	2	1½
12	36		38	1.50	58	2.28	2	1½
DOUBLE FILAMENT HEADLIGHTS WITH INTERNAL REFLECTORS								
6	6 & 6	3 Pin B.C.	40	1.57	63	2.48	4	4½
	12 & 12		40	1.57	63	2.48	3	7½
	18 & 18		40	1.57	63	2.48	3	7½
	24 & 18		40	1.57	63	2.48	3	4½
12	24 & 24		40	1.57	63	2.48	3	7½
	36 & 24		40	1.57	63	2.48	3	4½
13.5	24 & 24		40	1.57	63	2.48	3	8½
	36 & 24		40	1.57	63	2.48	3	8½
SIDE, TAIL & DASH LIGHTS								
6	3	S.C.C.	18	0.71	35	1.38	1	0
	6		18	0.71	35	1.38	1	2
12	6		18	0.71	35	1.38	1	0
FESTOON AND TRAFFICATOR LIGHTS								
6	3	—	7.5	0.30	35.5	1.40	1	6
6	6		11	0.43	38	1.50	1	9
6	6		11	0.43	44	1.73	2	0
12	3		7.5	0.30	35.5	1.40	1	6
12	6		11	0.43	38	1.50	1	9
12	6		11	0.43	44	1.73	2	0
INDICATOR LIGHTS								
6	3	M.E.S.	15	0.59	28	1.10	1	0
12	2.4		15	0.59	28	1.10	1	0

‡‡ With Clear or Satin Etched bulbs.

MAZDA CAR BULBS For German and Italian Cars

Volts	Watts	Cap	Approximate Dimensions				Price each	
			Diameter		Length			
			m/m	ins.	m/m	ins.	s.	d.
SINGLE FILAMENT HEADLIGHTS								
12	24	Bosch	38	1.50	58	2.28	2	3
	36		38	1.50	58	2.28	2	3
DOUBLE FILAMENT HEADLIGHTS WITH INTERNAL REFLECTORS								
12	24 & 24	Bosch	40	1.57	63	2.48	3	6
	36 & 24		40	1.57	63	2.48	3	3

Note:—For Side, Tail and Dash Lights (with S.C.C. Caps) see p. 46.

‡‡ With Clear or Satin Etched bulbs

12w. 12v. Clear G.F.
S.B.C. Cap12w. 12v. Clear Vac.
B.C. Cap10w. 12v. Pearl
B.C. Cap20w. 24v. Pearl
B.C. Cap20w. 24v. Opal
B.C. Cap**BUS — Interior****MAZDA BUS BULBS**

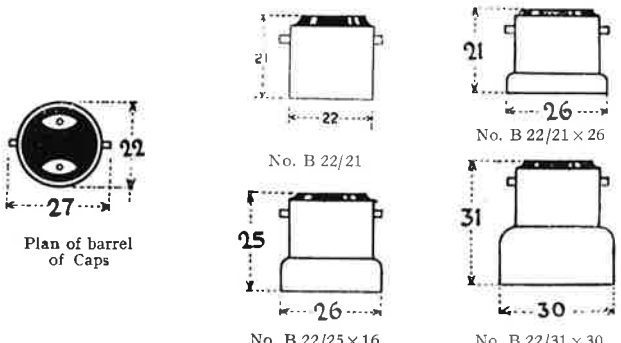
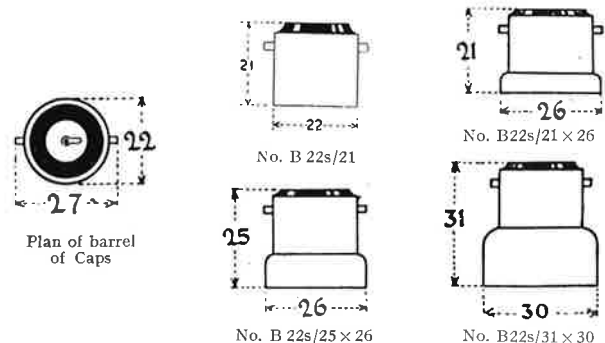
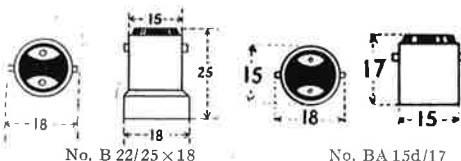
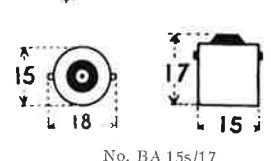
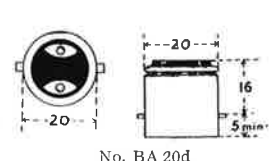
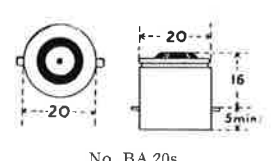
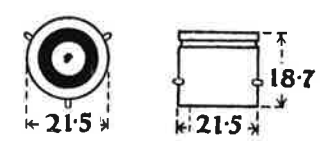
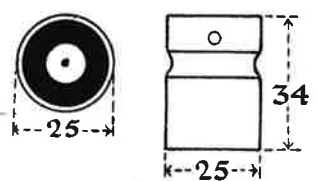
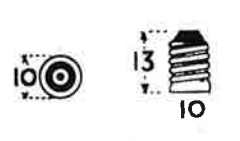
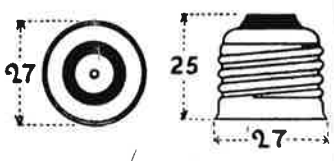
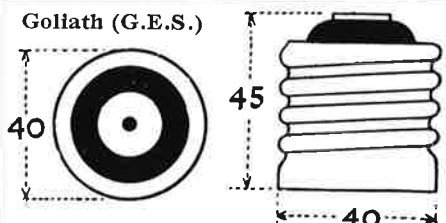
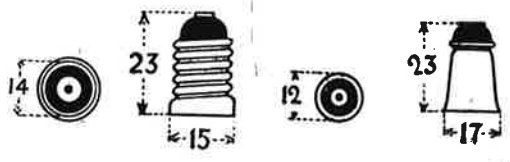
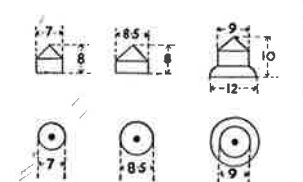
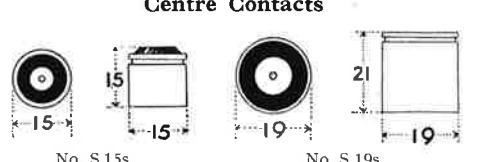
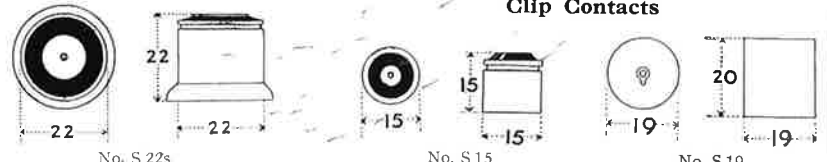
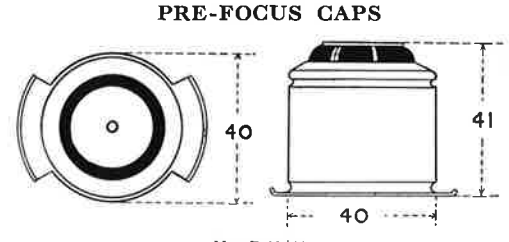
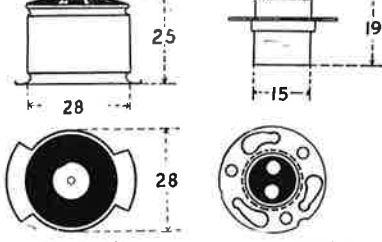
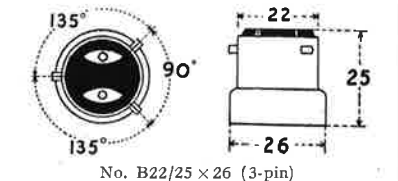
Volts	Watts	Cap regularly supplied	Approximate Dimensions				Prices					
			Diameter		Length		Clear	Pearl	Opal			
			m/m	ins.	m/m	ins.						
SINGLE FILAMENT HEADLIGHTS												
13.5	24	B.C., S.B.C. or S.C.C.	38	1.50	58	2.28	2	1*	—	—		
13.5	36		38	1.50	58	2.28	2	1*	—	—		
24	24		38	1.50	58	2.28	2	7*	—	—		
24	36		38	1.50	58	2.28	2	7*	—	—		
24	48		38	1.50	58	2.28	3	5*	—	—		
DOUBLE FILAMENT HEADLIGHTS, WITH INTERNAL REFLECTORS												
13.5	24 & 24	Bosch or S.B.C.	40	1.57	63	2.48	3	7*	—	—		
13.5	36 & 24		40	1.57	63	2.48	3	7*	—	—		
24	36 & 24		40	1.57	63	2.48	4	0*	—	—		
SIDE, TAIL, AND DASH LIGHTS												
24	6	B.C., S.B.C. or S.C.C.	22	0.87	37	1.46	1	8††	—	—		
INTERIOR LIGHTS—GASFILLED												
12	10	B.C. or S.B.C.	38	1.50	58	2.28	2	2	2	2	2	5
12	12						1	8	1	8	1	11
24	12						2	3	2	3	2	6
24	15						2	3	2	3	2	6
24	20		2	3	2	3	2	6				
12	10		1	11	1	11	2	2				
12	12		1	7	1	7	1	10				
24	12		2	0	2	0	2	3				
24	15		2	0	2	0	2	3				
24	20		2	0	2	0	2	3				
INTERIOR LIGHTS—VACUUM												
12	12	B.C. or S.B.C.	38	1.50	58	2.28	1	9	—	—		
REAR, WING, AND DESTINATION BOARD LIGHT												
12	6	B.C. or S.B.C.	26	1.02	40	1.57	1	4	—	—		

* See also standard headlight bulbs on page 44.

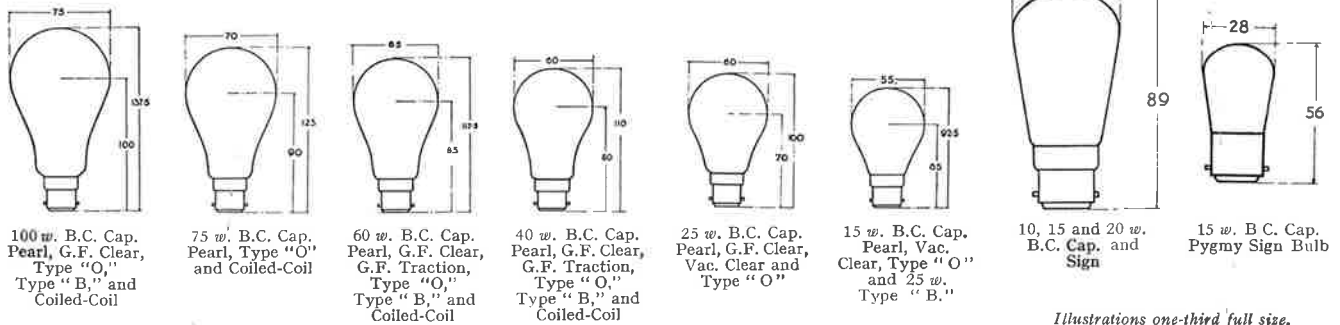
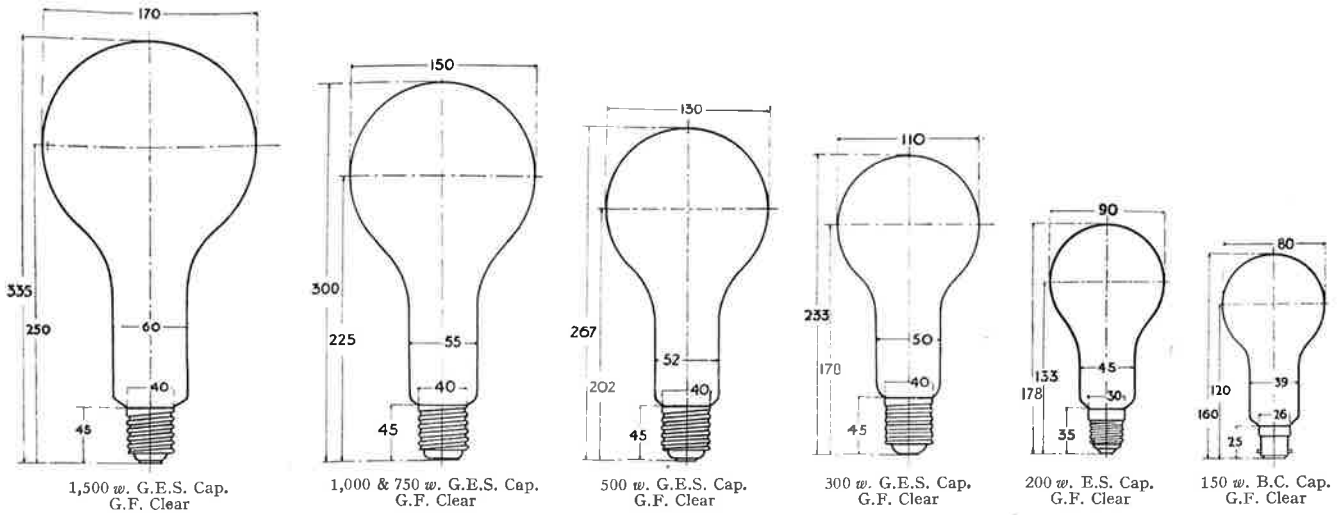
†† See also Side, Tail and Dash Lights on page 46.

LAMP CAPS

The illustrations are approximately half full size with nominal dimensions in millimetres.

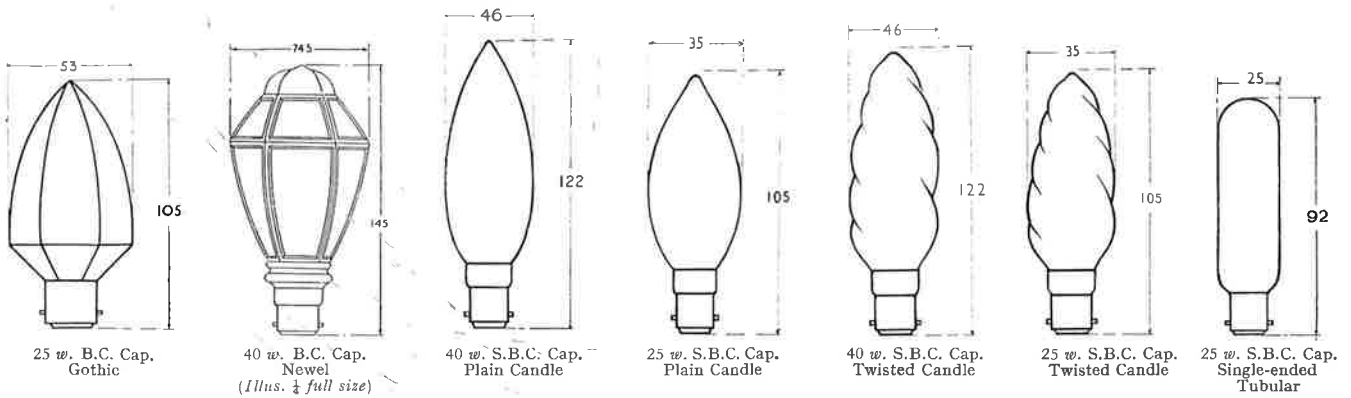
BAYONET CAPS							
Double Contact (B.C.)  <p>Plan of barrel of Caps</p> <p>No. B 22/21</p> <p>No. B 22/25 x 16</p> <p>No. B 22/31 x 26</p> <p>No. B 22/31 x 30</p>		Centre Contact (C.C.)  <p>Plan of barrel of Caps</p> <p>No. B 22s/21</p> <p>No. B 22s/25 x 26</p> <p>No. B 22s/31 x 26</p> <p>No. B 22s/31 x 30</p>					
SMALL BAYONET CAPS Double Contact (S.B.C.)  <p>No. B 22/25 x 18</p> <p>No. BA 15d/17</p>		Centre Contact (S.C.C.)  <p>No. BA 15s/17</p>					
		BOSCH CAPS Double Contact  <p>No. BA 20d</p>		Centre Contact  <p>No. BA 20s</p>			
THREE PIN CENTRE CONTACT CAP (3-pin C.C.)  <p>No. E 10/13</p>		HOLLOW TUBULAR CAP  <p>No. E 27/25</p>		EDISON SCREW CAPS Miniature (M.E.S.)  <p>No. E 10/13</p>		Standard (E.S.)  <p>No. E 27/25</p>	
Goliath (G.E.S.)  <p>No. E 40/45</p>		MINERS' HANDLAMP CAPS  <p>No. E 14/23 x 15</p> <p>C.E.A.G.</p>		FESTOON LAMP CAPS  <p>No. S 7/8 No. S 8-5/8 No. S 9/10 x 12</p>			
CAPS FOR DOUBLE ENDED TUBULAR LAMPS							
Centre Contacts  <p>No. S 15s</p> <p>No. S 19s</p>			Clip Contacts  <p>No. S 22s</p> <p>No. S 15</p> <p>No. S 19</p>				
PRE-FOCUS CAPS  <p>No. P 40/41</p>		 <p>No. P 28/25</p> <p>No. P 15/19</p>		THREE PIN BAYONET CAP  <p>No. B22/25 x 26 (3-pin)</p>			

OUTLINES—DIMENSIONS IN MILLIMETRES

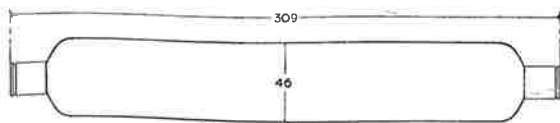


Illustrations approximately one-sixth full size.

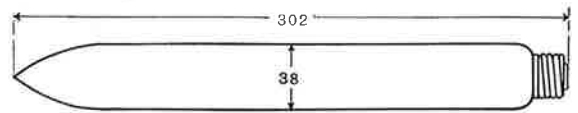
Illustrations one-third full size.



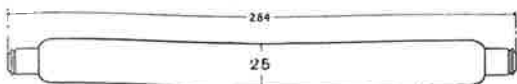
Illustrations approximately one-third full size.



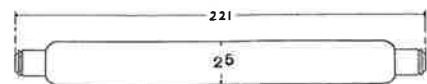
100 w. C.C. Cap. Double Ended Tubular.



40 and 60 w. E.S. Cap. Longlite.



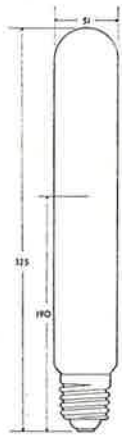
30 and 60 w. S.C.C. Cap. Double Ended Tubular.



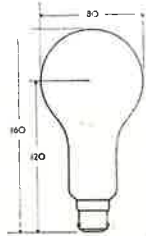
30 w. S.C.C. Cap. Double Ended Tubular.

Illustrations approximately one-quarter full size.

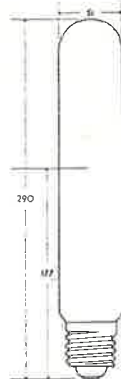
OUTLINES—DIMENSIONS IN MILLIMETRES



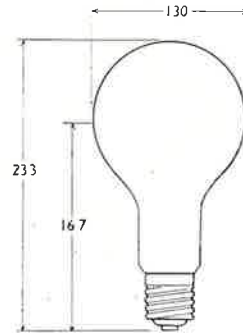
400 w. G.E.S. Cap. Mercra.



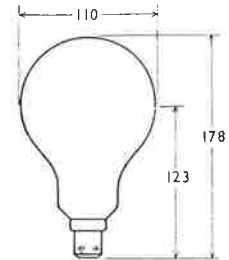
80 w. 3-pin B.C. Cap. Mercra.



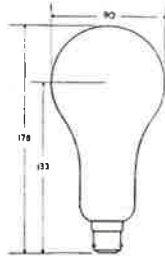
250 w. G.E.S. Cap. Mercra.



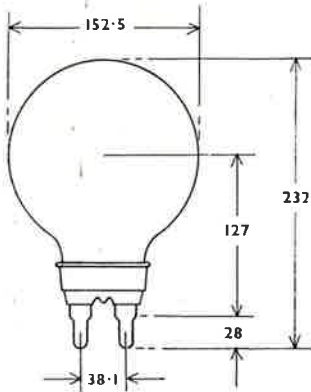
125 w. G.E.S. Cap. Mercra Fluorescent.



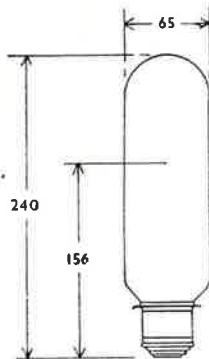
80 w. 3-pin B.C. Cap. Mercra Fluorescent.



125 w. 3-pin B.C. Cap. Mercra and Mercra with Ultra-Violet Filter Bulb.



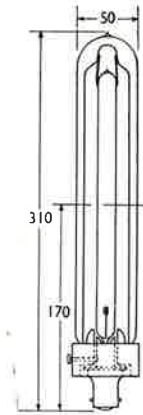
500 w. Bipost Cap. Mercra Projector Round Bulb.



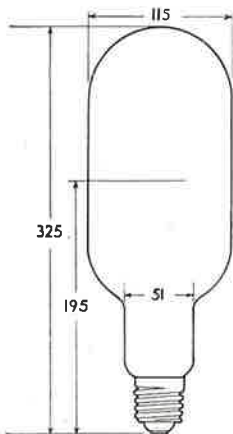
500 w. Pre-focus Cap. Mercra Projector Tubular Bulb.



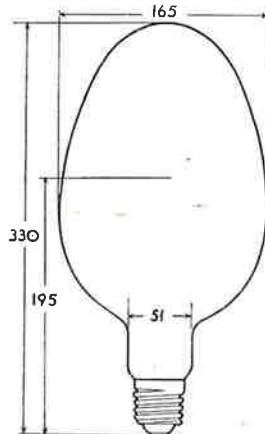
45 w. B.C. Ceramic Cap. Sodra.



60 w. B.C. Ceramic Cap. Sodra.



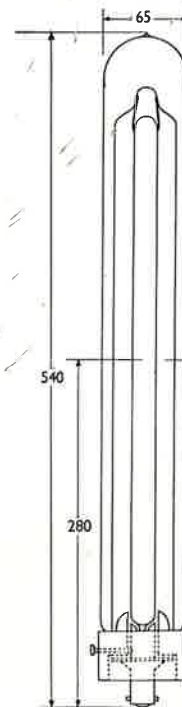
400 w. G.E.S. Cap. Mercra Fluorescent Tubular Bulb.



400 w. G.E.S. Cap. Mercra Fluorescent Iso-thermal Bulb.



85 w. B.C. Ceramic Cap. Sodra.



140 w. B.C. Ceramic Cap. Sodra.

Illustrations approximately one-sixth full size.



