

MAZDA LAMP CATALOGUE



The British Thomson-Houston Company, Ltd.

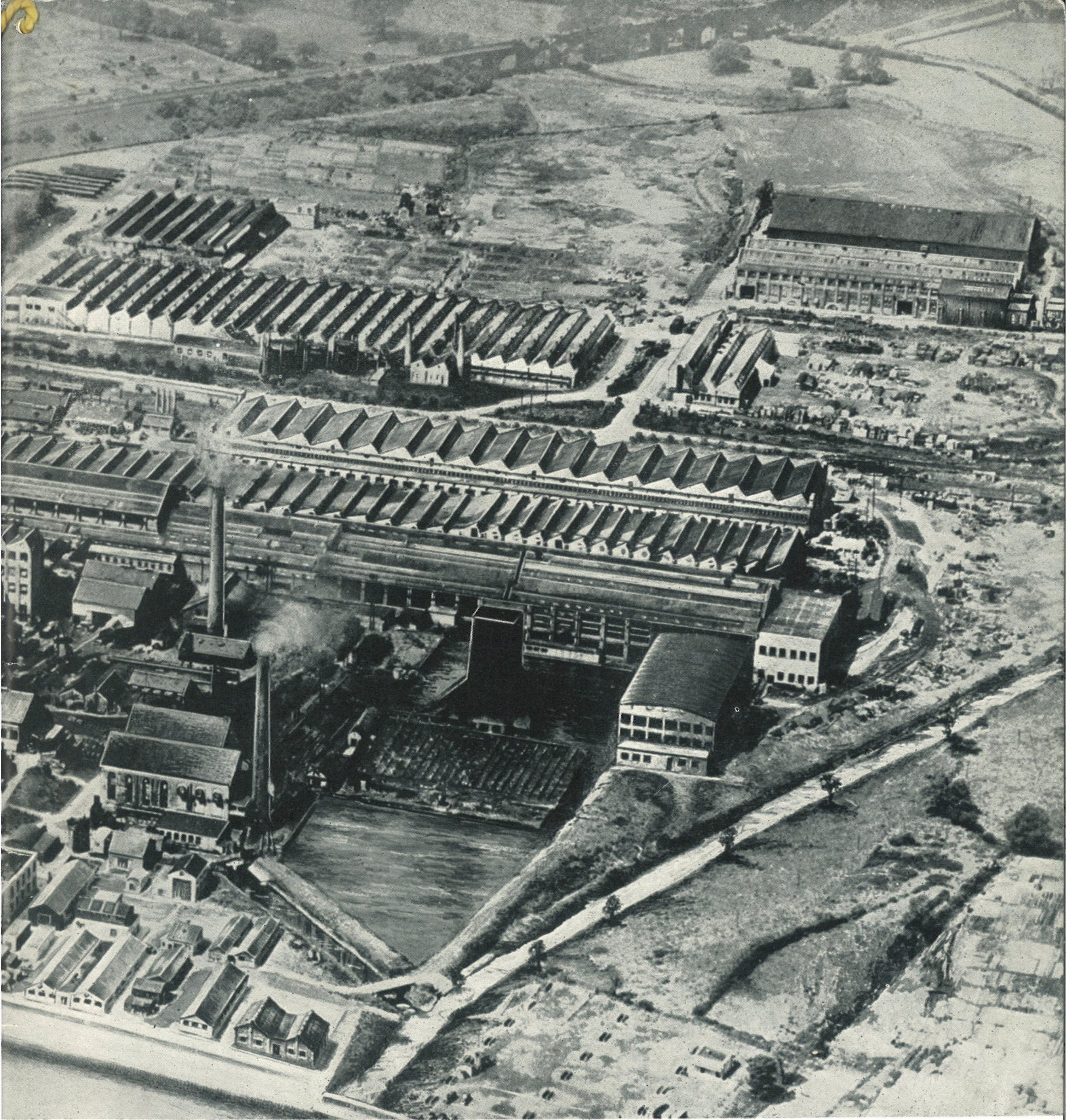


The BRITISH THOMSON-HOUSTON Co., Ltd.

ELECTRICAL ENGINEERS AND MANUFACTURERS

Head Office and Main Works

RUGBY, ENGLAND

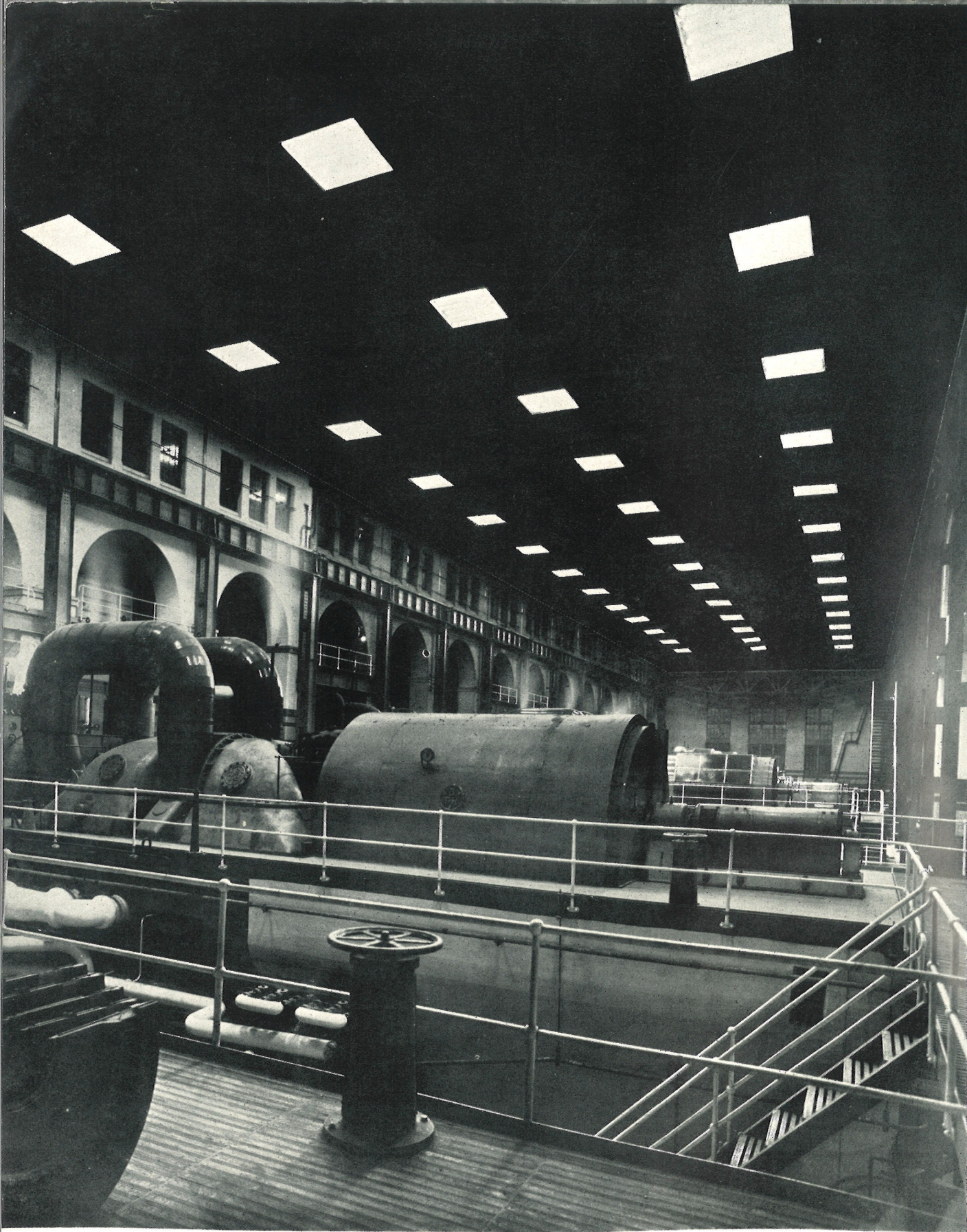


Other BTH Factories at :—

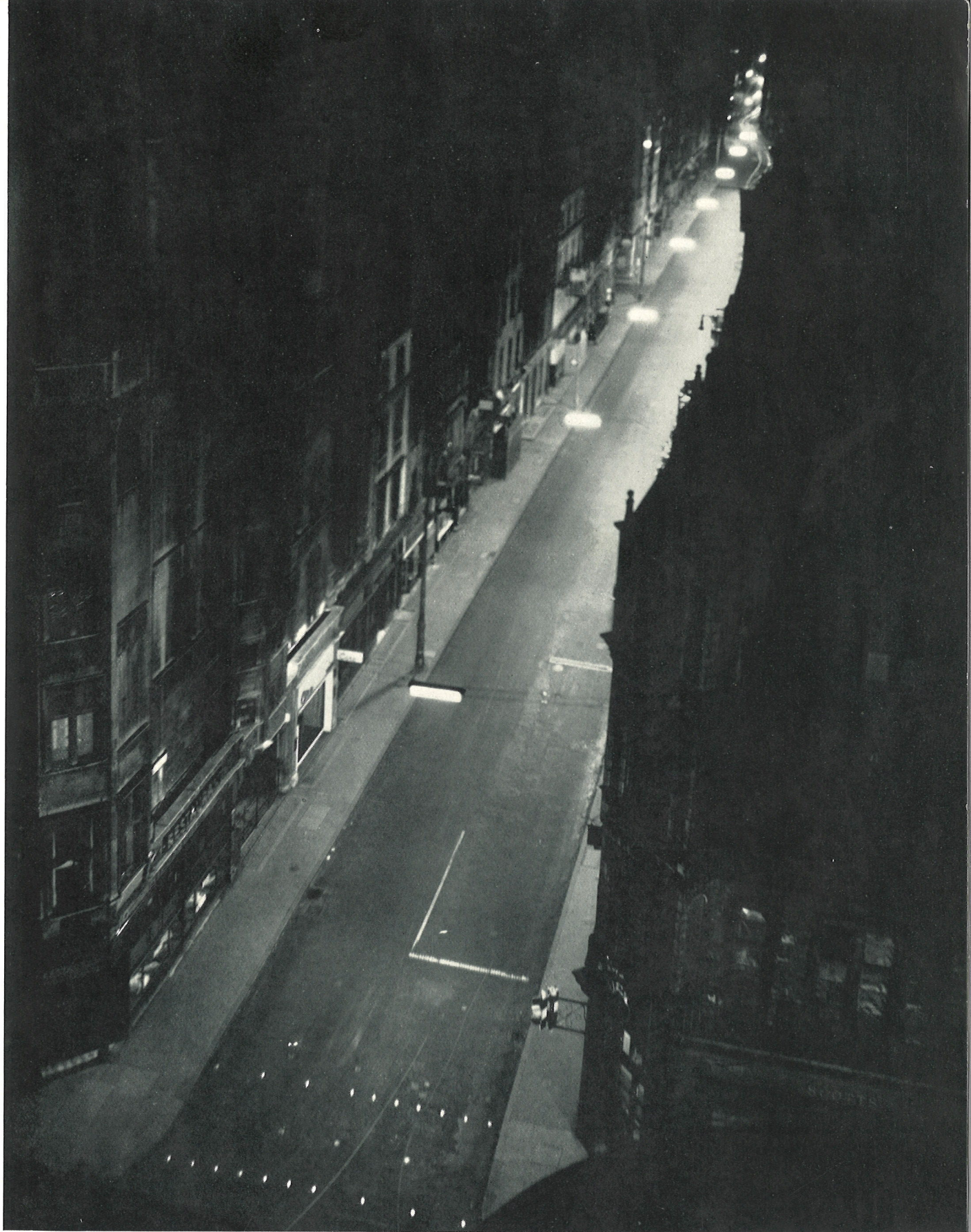
**BIRMINGHAM
CHESTERFIELD
COLNE
COVENTRY
LEICESTER**

**LUTTERWORTH
NELSON
NEWCASTLE-UNDER-LYME
PETERBOROUGH
WILLESSEN**





Mazda Fluorescent Lighting in a new Power Station



Mazda Fluorescent Street Lighting in Old Bond Street, London



Mazda Decorative Lighting in R.M.S. Caronia

Foreword

MAZDA LAMPS are manufactured by The British Thomson-Houston Company, Ltd., a company with a proud and long-standing reputation for reliable service in electrical engineering.

As with all other BTH equipment, only the highest grade materials are used in the manufacture of Mazda Lamps, and samples from every batch are subjected to the most rigorous and stringent tests to ensure that no lamp leaves the works which does not conform to the very high standards of quality and reliability prescribed by the traditions of the Company.

It is not possible to publish full details of all the many hundreds of different types of Mazda Lamps, and if those listed in this catalogue do not appear to meet your needs fully, you should not hesitate to ask the nearest BTH Office or Depot for expert advice and help. The Mazda technical and commercial services are second to none and the BTH laboratories are constantly seeking, not only to improve the performance and life of existing lamps, but also to devise new types to meet special requirements.

The Company has also developed auxiliary gear, accessories and lighting fittings of all kinds for use with Mazda Lamps. Typical examples giving some idea of the completeness of this range of lighting equipment will be found at the end of the catalogue.

First-class lamps and lighting equipment must be supported by sound lighting practice if full advantage is to be taken of their high performance. Specialist Lighting Engineers attached to the BTH Lighting Advisory Service are freely at your disposal and their prompt help and advice can be obtained through any of the many BTH Offices and Depots.

AMENDMENTS TO MAZDA LAMP CATALOGUE—L 868

1st APRIL, 1950

SUPPLEMENT TO MAZDA LAMP CATALOGUE—L 868

1st SEPTEMBER, 1950

This Supplement lists all new lamps and price revisions from 1st January 1950 to 1st September 1950 including those already published on Amendment Sheet L 884 dated 1st April 1950, which should now be removed from the Mazda Lamp Catalogue and destroyed.

PEARL SINGLE COIL

Page 8

Watts	Volts and List Prices *		Cap	Dimensions	
	200, 210, 220, 230, 240, 250, 260	100, 110 120, 130		Length	Diameter
200	s. 4 d. 0	s. 4 d. 6	E.S. (E27/25)	m/m 178	m/m 90

*Purchase Tax. For exact amount to be added see TABLE A on page 53.

SILVERLIGHT

Page 8

This is a coiled-coil lamp coated on the inside with silica to give a diffusing finish similar to that obtained with opal glass.

Watts	Volts	List Price *	Cap	Dimensions	
				Length	Diam.
100	200, 210, 220, 230, 240, 250, 260	s. 2 d. 0	B.C. (B22/25 × 26)	m/m 137.5	m/m 75

*Purchase Tax. For exact amount to be added see TABLE A on page 53.

CLEAR COILED COIL

Page 9

The Coiled Coil Lamps listed on page 8 can now be supplied with CLEAR bulbs at the same list price.

FLUORESCENT

Page 10

Coloured

Instant Start

Mellow

Watts	Nominal Length	Cap	Colour	List Price *	
80	5 ft.	B.C.	Red, Blue, Green or Yellow	s. 20 d. 0	
80	5 ft.	B.C.	Daylight, Natural, Mellow Colour Matching Red, Blue, Green, Yellow	16 18 21	6 0 0
40	4 ft.	Med. Bi-pin	Daylight, Natural, Mellow Colour Matching	15 16	0 6
40	2 ft.	Med. Bi-pin	Natural, Mellow	14	0

* Purchase Tax. For exact amount to be added see TABLE A on page 53.

MELLOW LAMPS are now available in ALL WATTAGES in the Standard Range at the same List Prices as Natural Lamps.

COLOUR SPRAYED CANDLE

Page 12

Outside sprayed Plain and Twisted Candle Lamps in Standard Colours.

25 watt 2d. each extra to List Price.

40 watt 3d. each extra to List Price.

LIGHT TUBES

Page 13

Straight

Watts	Nominal Length	Additional Voltages	List Price *	
75	24 in.	100, 110, 120, 130	s. 22 d. 6	

* Purchase Tax. For exact amount to be added see TABLE A on page 53.

PRICE REDUCTION To be affixed to page 1 of L 893 (Supplement to Mazda Lamp Catalogue L 868) or to page 2 of Mazda Leaflet L 891.

Christmas Tree Sets	New List Price	Purchase Tax	Total
Cinderella	s. 28 d. 0	s. 7 d. 0	s. 35 d. 0
Disneylights	28 0	7 0	35 0
Fairy Lights	21 0	5 3	26 3

1st July, 1951

List Price	Purchase Tax	Total	
		s.	d.
s. 1 d. 0	s. 3 d. 3	s. 1	d. 3

Silverlight Set List Price 30s. 0d.
Plus Purchase Tax 7s. 6d.

AMENDMENTS TO MAZDA LAMP CATALOGUE—L 868

1st APRIL, 1950

ADD the following :

SILVERLIGHT LAMP Page 8

This is a coiled-coil lamp coated on the inside with silica to give a diffusing finish similar to that obtained with opal glass.

Watts	Volts	Cap	Dimensions		List Price *	
			Length	Diam.		
100	200, 210, 220, 230, 240, 250, 260	B.C. (B22/25 × 26)	m/m 137.5	m/m 75	s. 2	d. 0

*Purchase Tax. For exact amount to be added see TABLE A on page 53.

FLUORESCENT LAMPS Page 10

Coloured
Mellow

Instant Start.....

Watts	Nominal Length	Cap	Colour	List Price *	
80	5 ft.	B.C.	Red, Blue, Green, or Yellow	s. 20	d. 0
40	4 ft.	Med. Bi-pin	Mellow	14	0
80	5 ft.	B.C.	Daylight, Natural, Warm-White, Mellow	16	6
			Colour Matching	18	0
			Red, Blue, Green, Yellow	21	0
40	4 ft.	Med. Bi-pin	Daylight, Natural, Mellow	15	0
40	2 ft.	Med. Bi-pin	Natural	14	0

*Purchase Tax. For exact amount to be added see TABLE A on page 53.

"HUNTALITE" LAMPS Page 12

These are decorative candle lamps.

Watts	Volts	Cap	Dimensions		List Price *	
			Length	Diam.		
25	100, 110, 120, 130, 200, 210, 220, 230, 240, 250, 260	S.B.C. (B15d/17)	m/m	m/m	s.	d.
40		S.B.C. (B15d/17)	208	35	6	6
				265	45	7

*Purchase Tax. For exact amount to be added see TABLE A on page 53.

FAIRY & DISNEYLIGHTS Pages 14 & 15

List Price	Purchase Tax	Total
s. d. 1 0	s. d. 3	s. d. 1 3

PREFOCUS HEADLAMP Page 33

British Type

Watts	Volts	Cap	Double Filament	Dimensions		List Price†	
				Length	Diam.		
48 & 48	12	P 22d/21	Coiled Coil Trans.	m/m 62 max.	m/m 28	s. 6	d. 9

† Purchase Tax. For exact amount to be added see TABLE B on page 53.

RADIO PANEL LAMP Page 35

Volts	Amps.	Cap	Bulb	Dimensions		List Price†
				Length	Diam.	
6.3	0.15	M.E.S. (E10/13)	Round	m/m 24	m/m 11	s. d. 7½

† Purchase Tax. For exact amount to be added see TABLE B on page 53.

COMPACT SOURCE Type ME/D Page 41

Watts	Volts	Cap	Description	List Price (Purchase Tax not chargeable)	
250	200/250	Prefocus P28/25	Box Type §	s. 350	d. 0

§ Overall Dimensions 133 ± 7 mm. × 48.5 mm. × 34 mm.

AMEND PRICES
of the following :

PROJECTOR LAMPS

Class A I Page 20

Class F Page 23

Watts	Volts	Cap	Revised List Price
10	20	S 10/20 × 13 Pathe T Piece	s. 4 d. 3a
9	18	M.E.S. (E10/20 × 13)	2 4b

a Purchase Tax not chargeable.

b Purchase Tax. For exact amount to be added see TABLE A on page 53.

PURCHASE TAX Table A 26% Page 53

These amounts must now be added to List Prices between 16s. 9d. and 21s. 9d.

TABLE A 26%	List Price				Tax To be Added	
	Exceeding		Not Exceeding			
	s.	d.	s.	d.	s.	d.
	16	9	17	9	4	5
	17	9	18	9	4	8
	18	9	20	0	5	3
	20	0	21	9	5	6

COLOUR SPRAYED

Page 16

WHITE should be added to the range of standard colours.

PIGMY SIGN— INTERNALLY COLOURED

Page 16

Watts	Volts	Colours	List Price*	Cap	Diam.
15	{ 110, 200, 210, 220 230, 240, 250, 260 }	Red, Green, Blue, Yellow, Orange White	s. d. 2 0	B.C. or E.S.	m/m 45

* Purchase Tax. For exact amount to be added see TABLE A on page 53.

FLASH TUBES

Page 19

Type	Volts ‡	List Price (Purchase Tax not chargeable)	Cap	Dimensions m/m		
				Length (excl'g pins)	Diameter of glass	L.C.L.
FA 3	2000-2500	£ 5 s. d. 0 0 0	U.X. 4-Pin	80±2	31±2	48±5

‡ Note that the voltage of the FA 1 and FA 2 Flash Tubes should read 2000-2500.

PHOTOFLASH

Page 19

Type 22.....

This lamp is filled with shredded aluminium and is battery operated.

Volts	List Price (Purchase Tax not chargeable)	Cap	Dimensions	
			Length	Diameter
3-9	s. d. 1 8	E.S.	m/m 125	m/m 60

No. 5.....

S.M.....

REDUCED LIST PRICE

REDUCED LIST PRICE

1s. 1d. each †

1s. 3d. each †

† From September 18th, 1950

PROJECTOR LAMP PRICE CHANGES

Class A I

Pages 20 and 21 {

Class E

Page 23 {

Class F Page 23

Watts	Volts	Cap	REVISED List Price	
10 500 750	20 110 110	S 10/20 x 13 Pathe T Piece 3 pin B.C. (B22/25 x 26) 3-fin Ring	s. d. 4 3a 33 9a 39 9a	
500 500 500	115, 200-250 110, 200-250 110, 200-250	Prefocus (P28/25) E.S. (E27/30) Prefocus (P28/25)	28 6a 27 6a 28 6a	
9	18	M.E.S. (E10/20 x 13)	2 4b	

a Purchase Tax not chargeable.

b Purchase Tax. For exact amount to be added see TABLE A on page 53.

HEADLAMPS

Pages 32 and 33

Ordinary Single Fil.....

Ordinary Double Fil.....

Prefocus Single Fil.....

Prefocus Double Fil.....

Volts	Watts	Filament	Contact	List Price †	
6	36	" V "	Single	s. d. 2 9	
6	30 & 30	Single Coil Trans.	Double	3 6‡	
6	18	Vertical " U "	Single	4 0	
6	18 & 18	Single Coil Trans.	Double	5 3	
6	24 & 24	Single Coil Axial	Double	4 9	
6	30 & 24	Single Coil Trans.	Double	5 6	
12	42 & 36	Single Coil Trans.	Double	5 0	
12	48 & 48	Coiled Coil Trans.	Double	6 9	

† Purchase Tax. For exact amount to be added see TABLE B on page 53. ‡ Reduced Price.

STOP, TAIL LIGHTS

Page 34

Volts	Watts	Cap	List Price †	
12	6 & 24	S.B.C. with offset pins	s. d. 3 9	

† Purchase Tax. For exact amount to be added see TABLE B on page 53.

AMENDMENTS TO MAZDA LAMP CATALOGUE—L 868

1st APRIL, 1950

Supplement to MAZDA Lamp Catalogue. 1st September, 1950.

CYCLE DYNAMO

Page 35

Head Light, Round Bulb.....

Volts	Amps.	List Price Each † Clear	Cap	Diameter
6	0.2	s. d. 9	M.E.S.	m/m 15 or 11

† Purchase Tax. For exact amount to be added see TABLE B on page 53.

RADIO PANEL

Page 35

Volts	Amps.	Cap	List Price†	Bulb	Dimensions	
					Length	Diam.
6.0	0.18	M.C.C. (B9s/14)	s. d. 7½	Round (Frosted)	m/m 24	m/m 11
6.3	0.11	M.E.S. (E10/13)	7½	Round (Clear)	24	11
6.3	0.15					

† Purchase Tax. For exact amount to be added see TABLE B on page 53.

Varnishing..... Varnishing of Radio Panel Lamps 1d. each or 4s. 0d. per 100 extra to List Price.

CAP & HANDLAMP KRYPTON

Page 36

Correction..... The voltage of the last lamp listed on page 36 should read 4.8 and not 4.0 as shown.

MERCURY VAPOUR

MA/U.....

Page 38

Watts	Voltages	Bulb Shape, Dimensions and Cap	List Price (Purchase Tax not chargeable)	
			Hard Glass	Soft Glass
250	100, 110, 120, 130	as 250 w. MA/V	s. d. 61 3	s. d. 51 0
400	200/210, 220/230 240/250	as 400 w. MA/V	66 9	55 6

Alternative Caps..... 125 watt MB/V and MBW/U lamps with G.E.S. caps 1s. 0d. each extra to List Price.
Pages 38 and 41

COMPACT SOURCE

Type ME/D

Page 41

Watts	Volts	Cap	Description	List Price (Purchase Tax not chargeable)
250	200/250	Prefocus P28/25	Box Type §	s. d. 350 0

§ Overall Dimensions 133 ± 7 mm. × 48.5 mm. × 34 mm.

PURCHASE TAX

Page 53

These amounts must now be added to List Prices between 16s. 9d. and 21s. 9d. in Table A.

TABLE A 26%	List Price				Tax To be Added	
	Exceeding		Not Exceeding			
	s.	d.	s.	d.	s.	d.
	16	9	17	9	4	5
	17	9	18	9	4	8
	18	9	20	0	5	3
	20	0	21	9	5	6

These amounts must now be added to List Prices between 3s. 2d. and 5s. 6d. in Table B.

TABLE B 23 ⁰ / ₁₀₀	List Price				Tax To be Added	
	Exceeding		Not Exceeding			
	s.	d.	s.	d.	s.	d.
	3	2	3	5		9
	3	5	3	8		10
	3	8	4	2		11
	4	2	4	5	1	0
	4	5	4	11	1	1
	4	11	5	2	1	2
	5	2	5	6	1	3

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BTH Branch Office Addresses Page 55

PRICES IN THIS CATALOGUE APPLY ONLY IN GREAT BRITAIN AND NORTHERN IRELAND.

PEARL LAMPS

Coiled Coil and
Single Coil
Filament

Gasfilled

for General
Lighting



60 w. Pearl

SINGLE COIL

Watts	Voltages and List Prices*											
	200, 210, 220, 230, 240, 250, 260		150		100, 110, 120, 130		60, 65, 75		35, 50, 55		25	
15	s. 1	d. 3†	s. 1	d. 9†	s. 1	d. 3†	s. 1	d. 9†	s. 1	d. 9	s. 1	d. 9
25	1	3†	1	9†	1	3	1	9	1	9	1	9
40	1	1	1	9	1	3	2	0	2	0	2	0
60	1	1	1	9	1	3	2	6	2	6	2	6
75	1	5		—	1	7		—		—		—
100	1	6	3	0	1	8	4	0	4	0	4	0
150	2	3		—	2	5		—		—		—

† These lamps are vacuum only, all other lamps on this page are gasfilled.

COILED COIL

Watts	Voltage and List Price*	
	200, 210, 220, 230, 240, 250, 260	
40	s. 1 d. 4	
60	1 4	
75	1 7	
100	1 8	

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE A on the extension of page 53.

MAZDA PEARL LAMPS

The inside frosting of the Mazda Pearl Lamp diffuses the light and reduces 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 lamps give up to 20% more light than ordinary gasfilled lamps.

Caps and Dimensions

Watts	Cap §	Approximate Dimensions †					
		Diameter		Length		Light Centre Length ‡	
		m/m	in.	m/m	in.	m/m	in.
15	B.C. (B22/25 × 26)	55	2.17	92.5	3.63	65	2.56
25		60	2.36	100	3.94	70	2.76
40		60	2.36	110	4.33	80	3.15
60		65	2.56	117.5	4.61	85	3.35
75		70	2.76	125	4.92	90	3.54
100		75	2.95	137.5	5.39	100	3.94
150		80	3.15	160	6.30	120	4.72

§ Cap illustrations will be found on pages 44 and 45.

† Lamp Outlines are shown on pages 42 and 43.

‡ Light Output of these lamps is given on page 46.

SINGLE COIL

Watts	Voltages and List Prices*											
	200, 210, 220, 230, 240, 250, 260		150		100, 110, 120, 130		60, 65, 75		35, 50, 55		25	
	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.	s.	d.
15	1	3†	1	9†	1	3†	1	9†	—	—	1	9
25	1	3†	1	9†	1	3	1	9	1	9	1	9
40	1	1	1	9	1	3	2	0	2	0	2	0
60	1	1	1	9	1	3	2	6	2	6	2	6
75	1	5	—	—	1	7	—	—	—	—	—	—
100	1	6	3	0	1	8	4	0	4	0	—	—
150	2	3	5	6	2	5	7	6	6	6	—	—
200	3	6	7	6	4	0	9	0	8	0	—	—
300§	7	0	10	6	7	6	12	0	11	0	—	—
500§	9	0	13	0	9	6	15	6	14	6	—	—
750§	15	0	19	0	15	0	20	0	19	3	—	—
1000§	16	0	19	0	16	0	—	—	—	—	—	—
1500§	22	6	26	3	22	6	—	—	—	—	—	—

* **Purchase Tax** must be added to the prices in these columns for lamps up to 250 watts. For the exact amount of purchase tax to be added, see TABLE A on the extension of page 53.

§ Lamps over 250 watts are exempt from purchase tax.

† These lamps are vacuum only, all other lamps on this page are gasfilled.

MAZDA CLEAR LAMPS

It will be noted from the tables that a choice of either clear or pearl lamp is offered in wattages up to and including 150 watts. Higher wattage lamps are available only with clear glass bulbs.

The majority of both clear and pearl lamps are 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.

Caps and Dimensions

Watts	Cap §	Approximate Dimensions †					
		Diameter		Length		Light Centre Length ‡	
		m/m	in.	m/m	in.	m/m	in.
15	B.C. (B22/25×26)	55	2.17	92.5	3.63	65	2.56
25		60	2.36	100	3.94	70	2.76
40		60	2.36	110	4.33	80	3.15
60		65	2.56	117.5	4.61	85	3.35
75		70	2.76	125	4.92	90	3.54
100	E.S. (E27/25)	75	2.95	137.5	5.39	100	3.94
150		80	3.15	160	6.30	120	4.72
200		90	3.54	178	7.00	133	5.24
300	G.E.S. (E40/45)	110	4.33	233	9.17	178	7.00
500		130	5.12	267	10.51	202	7.95
750		150	5.91	300	11.81	225	8.86
1000		150	5.91	300	11.81	225	8.86
1500		170	6.69	335	13.19	250	9.84

§ **Cap illustrations** will be found on pages 44 and 45.

† **Lamp Outlines** are shown on pages 42 and 43.

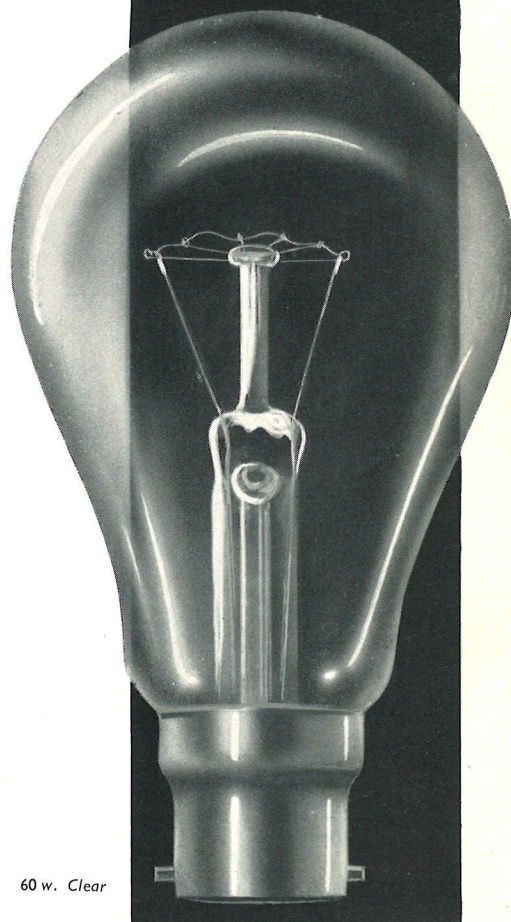
‡ **Light Output** of these lamps is given on page 46.

CLEAR LAMPS

Single Coil
Filament

Gasfilled
& Vacuum

for General
Lighting

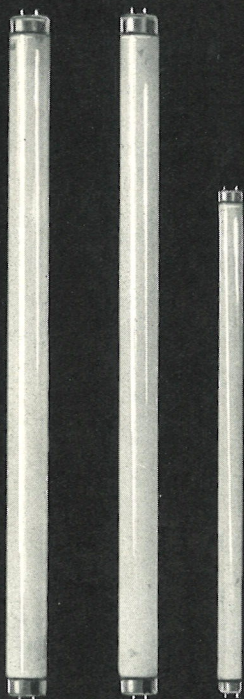


60 w. Clear

FLUOR- ESCENT LAMPS

Type
MCF/U

*for General
Lighting*



Left 40 w. (2ft.)
Centre 20 w. (2ft.)
Right 15 w. (1½ ft.)

Watts	Nominal Length	Colours Available	List Price*	
			s.	d.
STANDARD RANGE				
15	1½ ft.	Natural or Warm-White	11	6
20	2 ft.	Natural or Warm-White	12	6
30	3 ft.	Natural or Warm-White	13	0
40	2 ft.	Natural or Warm-White	13	0
40	4 ft.	Natural, Warm-White, or Daylight	14	0
80	5 ft.	Mellow, Natural, Warm-White, or Daylight	15	6
COLOUR MATCHING				
40	4 ft.	Colour Matching	15	6
80	5 ft.	Colour Matching	17	0
8 ft. RANGE				
50 or 70†	8 ft.	Natural	30	0
75 or 125†	8 ft.	Natural	32	6

*Purchase Tax must be added to the prices in this column. For the exact amount of purchase tax to be added, see TABLE A on the extension of page 53.

† Lamp Wattage determined by Auxiliary Gear.

MAZDA FLUORESCENT LAMPS

The Fluorescent Lamp is an electric discharge lamp consisting of a glass tube which has a filamentary electrode sealed into each end and a coating of fluorescent powder on its inner surface. The electric discharge passes between the electrodes through low-pressure mercury vapour, and the resultant ultra-violet radiation excites the fluorescent powder so that it emits visible light.

Most of the heat generated by the lamps is lost by convection from the large surface area, and the tube is quite cool enough to be touched with the naked hand while the lamp is in operation.

These fluorescent lamps have a surface-brightness which does not exceed 4-5 candles per square inch, and this means that higher levels of illumination can be achieved without risk of glare from the lamps or of reflected glare from polished surfaces. The comparatively large area of the light source is also an important factor in ensuring even distribution of the light and in eliminating harsh shadows.

The Fluorescent Lamp is considerably more efficient, and has a longer life, than its tungsten equivalent. For example, the light output of the 80 watt 5 ft. fluorescent lamp is more than three times that of the 75 watt gasfilled tungsten lamp, and the

Watts	Cap§	Dimensions			
		Overall Length		Diameter	
		in.	m/m	in.	m/m
STANDARD RANGE					
15	Med. Bi-pin 23 (G2.4×13/23×10)	17 ²⁵ / ₃₂	451	1	26
20	Med. Bi-pin 35 (G2.4×13/35×10)	23 ²⁵ / ₃₂	604	1½	38
30	Med. Bi-pin 23 (G2.4×13/23×10)	35 ²⁵ / ₃₂	909	1	26
40	Med. Bi-pin 35 (G2.4×13/35×10)	23 ²⁵ / ₃₂	604	1½	38
40		47 ²⁵ / ₃₂	1214	1½	38
80	B.C. (B22/25×26) or (B22/27×35)	60	1524	1½	38
COLOUR MATCHING					
40	Med. Bi-pin 35 (G 2.4 × 13/35 × 10)	47 ²⁵ / ₃₂	1214	1½	38
80	B.C. (B22/25×26) or (B22/27×35)	60	1524	1½	38
8 ft. RANGE					
50 or 70	Raised Contact (S24s/17)	93 ⁷ / ₈	2384	1	26
75 or 125		B.C. (B22/25×26) or (B22/27×35)	96	2438	1½

§ Cap Illustrations will be found on pages 44 and 45.

Light Output of these lamps is given on page 46.

Details of some of the Auxiliary Gear for use with these lamps are given on pages 48 and 49.

output of the 40 watt 4 ft. fluorescent lamp is approximately four times that of the 40 watt gasfilled tungsten lamp while the average life of the fluorescent lamp is two and a half times that of the tungsten lamp.

INSTANT START

Certain of the lamps listed above can be supplied for instant starting at 1/- each extra to list price.

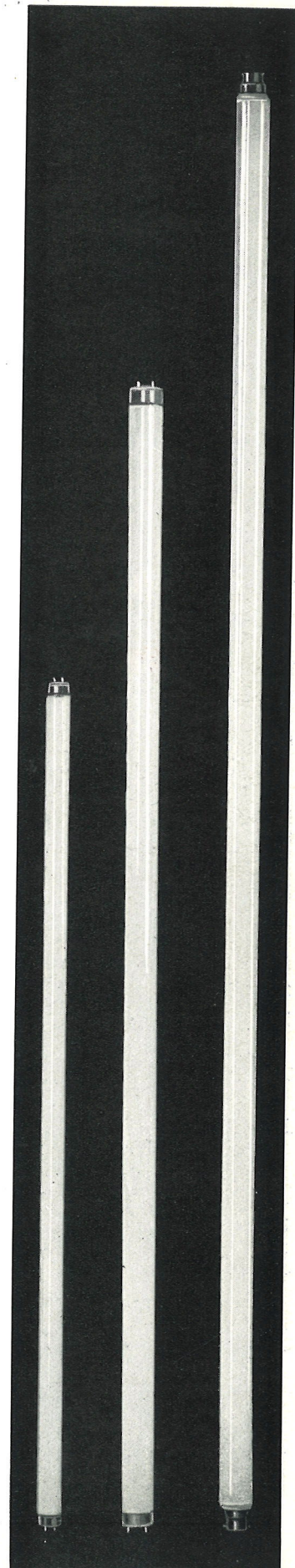
These lamps are designed to obviate the need for a starter switch which is replaced by a starting transformer having a comparatively long life. Basically the lamps are identical with the standard lamps, but have the addition of a narrow metal strip running the whole length and fixed to the lamp caps at both ends.

COLOUR MATCHING

These lamps have been specially developed to make possible perfect colour matching and to facilitate the close and easy examination of large areas at one time.

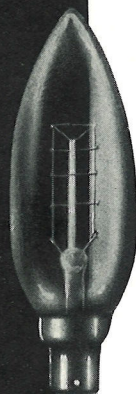
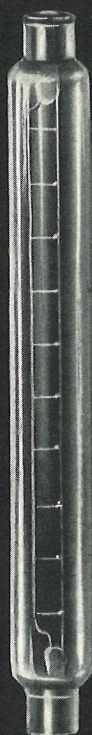
Mazda Low Pressure Fluorescent Lamps are made under one or more of the following British Patents : 469732, 480365, 520759, 521110, 523528, 530531, 533451, 535897, 537901, 563185, 578192, 580363, 610025, and other Patents granted or Pending.

Right 80 w. (5 ft.)
Centre 40 w. (4 ft.)
Left 30 w. (3 ft.)



TUBULAR LOGLITE & CANDLE LAMPS

for Decorative
Lighting



Left 30 w. Tubular
Above 25 w. Plain Candle



TUBULAR (CLEAR)

Watts	Voltages and List Prices *				Cap§	Approx. Dimensions†	
	200, 210, 220, 230, 240, 250, 260	110, 120	60, 65, 75	50		Diam. m/m	Length m/m
Single Cap (Vacuum)							
10	s. d. —	s. d. 3 6	s. d. 4 6	s. d. 4 0	{ B.C. (B22/21) S.B.C. (B15d/17)	25	63
25	3 6	3 6	4 6	4 0		{ B.C. (B22/21) S.B.C. (B15/24 × 18) S.E.S. (E14/27 × 18)	25 25 25
Double Cap (Vacuum)							
30 60	5 6 5 9	5 6 5 9	— —	— —	{ C.C. (S 15s)	{ 25 25	221 or 284 284

LOGLITE (OPAL)

Watts	Voltages and List Prices*				Cap§	Approx. Dimensions†	
	200, 210, 220, 230, 240, 250, 260	110, 120	60, 65, 75	50		Diam. m/m	Length m/m
40 60	s. d. 8 6	s. d. 8 6	s. d. —	s. d. —	B.C. (B22/25×26) or E.S. (E27/25)	38	302

CANDLE (PLAIN AND TWISTED)

Watts	Voltages and List Prices*				Cap§	Approx. Dimensions†	
	210, 220, 230, 240, 250, 260	100, 110, 120, 130	60, 65, 75	50		Diam. m/m	Length m/m
Plain							
25	s. d. 3 6	s. d. 3 6	s. d. 4 6	s. d. 4 0	{ B.C. (B22/25×26) S.B.C. (B15/26×22)	38	114
40	4 0	4 0	—	—		38	116
					{ B.C. (B22/25×26) S.B.C. (B15/26×22)	46(max.)	135(max.)
						46(max.)	133(max.)
Twisted							
25	4 0	4 0	—	—	{ B.C. (B22/25×26) S.B.C. (B15/26×22)	39(max.)	119(max.)
40	4 9	4 9	—	—		39(max.)	121(max.)
					{ B.C. (B22/25×26) S.B.C. (B15/26×22)	57(max.)	152(max.)
						57(max.)	150(max.)

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added, see TABLE A on the extension of page 53.
 ‡ Cap illustrations will be found on pages 44 and 45.
 † Lamp outlines are shown on pages 42 and 43.

LIGHT TUBES

Watts	Nominal Length in.	Voltages and List Prices*				Dimensions ‡		
		200, 210, 220, 230, 240, 250, 260		100, 110, 120, 130		Overall Length m/m	Diameter m/m	Distances between Round-Peg Side-Caps m/m
STRAIGHT LENGTHS (White Opal†)								
35	12	s. 13 d. 6		s. 13 d. 6		305	30	229
75	24	22	6	—		610	30	534
110	36	30	0	—		915	30	839
150	48	35	0	—		1220	30	1144
CURVES— $\frac{1}{8}$, $\frac{1}{4}$, or $\frac{1}{2}$ CIRCLES (White Opal†)								
60	20	30	0	30	0	500§	30	$\left\{ \begin{array}{l} \frac{1}{8} \text{ Circle } 416 \\ \frac{1}{4} \text{ " } 393 \\ \frac{1}{2} \text{ " } 309 \end{array} \right.$

*Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added, see TABLE A on the extension of page 53.

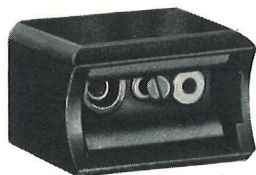
† Colour Spraying 10% extra for Red, Blue, Green, Yellow, Flame, Orange, Pink, or Amber.

‡ Lamp Outlines are shown on pages 42 and 43.

§ Centre line of the curve.

MAZDA LIGHT TUBES (Architectural Series)

These lamps, both the straight and curved variety, provide delightful lighting effects in the home, their appearance being that of a simple bar of light. They are particularly useful for installing above or on either side of wall mirrors and they can also be used for emphasizing architectural features. They can be used very effectively for display lighting in shops and stores, particularly in show-cases where their very neat appearance is an asset since it does not obtrude itself. The curved lamps are extensively used for decorative lighting in hotels, restaurants etc., and also for outlining advertising signs.



LAMP HOLDERS

Special lampholders, as illustrated, are required for use with Light Tubes.

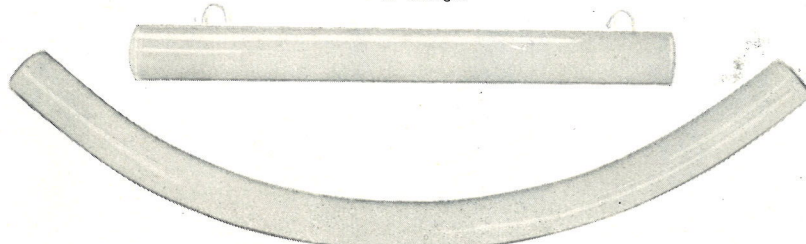
List Price

5s. 4d. per pair

Purchase Tax not chargeable.

Colour sprayed 4d. extra

12" Straight



Circle

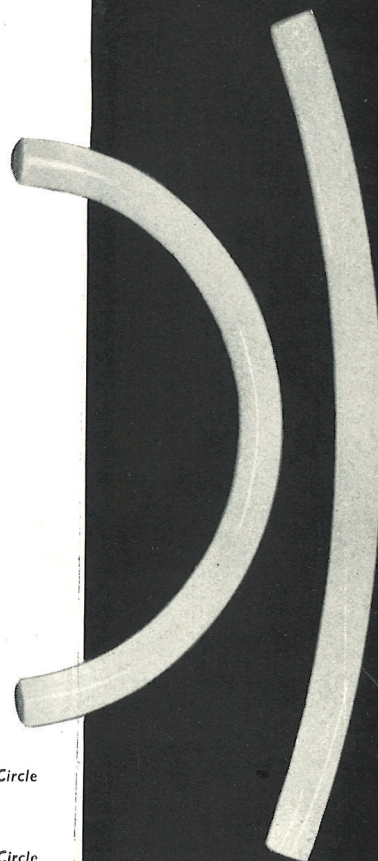
$\frac{1}{2}$ Circle

$\frac{1}{4}$ Circle

LIGHT TUBES

Architectural Series

for Decorative and Display Lighting



DISNEY -LIGHT SETS

*for Festive
Lighting*



MAZDA

“SNOW WHITE”

“PINOCCHIO”

“BAMBI”

“SILLY SYMPHONY”

“FANTASIA”

“DUMBO”

12-Light Sets
(with one spare 20-volt lamp)
Voltages 200/260

List Price* each 35s. 0d.

* Purchase Tax 8s. 9d., equal to 25%
of List Price must be added.

Handwritten: Tax 7/-
28/- + 7/- = 35/-

In these six Disneylight sets are reproduced, by means of coloured transfers on the lamp shades, the entire galaxy of Disney's world-famous characters, in scenes of comic liveliness and fantastic charm. For all occasions of festive and decorative lighting—in nursery, lounge, hall or dining room, on Christmas tree, ceiling or newel post ; for the celebration of a birthday or a home-coming ; for dance or party—Mazda Disneylights provide an enchanting atmosphere of gaiety.

Mazda Disneylights are fitted with combined plug adaptors enabling them to be connected to any lampholder or 5-amp wall plug. By means of the sliding berry-bead device, each separate light can be firmly secured to a twig or any other projection.



"FAIRY" LIGHTS

12-Light Sets

(with one spare lamp)

Voltages 200/260

List Price* each ~~24s. 0d.~~

* Purchase Tax 6s. 0d., equal to 25%
of List Price must be added.

81/- + 5/3^{tax}
26/3

Mazda "Fairy" Light Sets are ideal for decorating the home for festive occasions and also for festooning public rooms in hotels, restaurants etc. They also, of course, make delightful Christmas tree decorations. Each set comprises twelve coloured lamps (White, Green, Red, Blue, Orange, and Yellow) without shades, ready wired to a flexible cord fitted with an adaptor.

FAIRY LIGHT SETS

*for Festive
Lighting*



COLOUR SPRAYED LAMPS

Including
Pigmy Sign

for Decorative
and Display
Lighting



COLOUR SPRAYED (Single Coil)

Watts	Voltages and List Prices*				Colours Available
	200, 210, 220, 230, 240, 250, 260		100, 110, 120, 130		
15	s. 1	d. 5	s. 1	d. 5	} Black and Standard Range
25	1	5	1	5	
40	1	4	1	6	} Standard Range
60	1	4	1	6	
75	1	8	1	10	
100	1	10	2	0	
150	3	0	3	2	} White Only (wholly or part- ially sprayed)
200	5	0	5	6	
300†	8	9	9	3	
500†	11	3	11	9	

*Purchase Tax must be added to the prices in these columns for lamps up to 250 watts. For the exact amount of purchase tax to be added, see TABLE A on the extension of page 53.

† Lamps over 250 watts are exempt from purchase tax.

Cap and Dimensions as for clear lamps, see page 9.

Range of Standard Colours

100	Red	2	2
	Blue	2	
	Green		
	Yellow		
150	Flame	4	2
100	Orange	4	2
	Pink	2	2
	Amber	2	1

PYGMY SIGN LAMPS (Clear and Colour Sprayed)

Watts	Voltages and List Prices*				Cap§	Approx. Dimensions	
	110, 130, 200, 210, 220, 230, 240, 250, 260		25, 50, 60, 65, 75, 150†			Overall Length m/m	Diameter m/m
	CLEAR	WHOLLY SPRAYED†	CLEAR	WHOLLY SPRAYED†			
15	s. d. 1 7	s. d. 1 9	s. d. 2 2	s. d. 2 4	B.C. (B22/21) E.S. (E27) S.B.C. (B15/24×18) S.E.S. (E14/27×18)	56 58 62 64	28

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added, see TABLE A on the extension of page 53.

† Standard Range of Colours as for Colour Sprayed Lamps. ‡ 150 volt Clear only.

§ Cap Illustrations will be found on pages 44 and 45.

|| Lamp outlines are shown on pages 42 and 43.

COLOURED LAMPS

Colour Sprayed General Service and Pygmy Sign Lamps are ideal for festive illuminations at the seaside, in parks, etc., and for the exterior and interior decoration of such public buildings as halls, cinemas and theatres. Both types of lamp are also extensively used for display lighting and for advertisement signs.

Pygmy Sign

Colour Sprayed

NEON LAMPS

Watts	List Price (Purchase Tax Not Chargeable) s. d.	Cap§	Approximate Dimensions			
			Maximum Length		Diameter	
			m/m	in.	m/m	in.
Type "N" Nightlight (Voltages 200/220, 230/240, 250/260)						
5	4 6	{ B.C. (B22/31 × 30) E.S. (E27)	125	4.89	61 (max.)	2.40
Type "I" Indicator (Voltages 100, 110, 120, 130, 200/220, 230/240, 250/260)						
0.5	4 0	{ B.C. (B22/21)	56	2.21	28	1.09
		{ E.S. (E27)	58	2.28		
		{ S.B.C. (B15/24 × 18)	54	2.12	18	0.71
		{ S.E.S. (E14/27 × 18)	56	2.21		
Current Polarity Indicator (Voltages 400/650, 110/750)						
0.5	400/650 volts 5 6	{ Special	79	3.12	20	0.78
0.5	110/750 volts 5 9					

SWITCHBOARD INDICATOR

Volts†	List Price* Clear s. d. Colour Sprayed s. d.	Cap§	Approximate Dimensions			
			Overall Length		Diameter	
			m/m	in.	m/m	in.
100/130 200/260	2 3 2 5	B.C. (B22/21)	56	2.21	28	1.09

* Purchase Tax see note below.

† One lamp only is available in each of these voltage ranges, and will be marked 100/130 or 200/260 volts respectively. Lamps are marked "Switchboard Indicator" and no wattage specified.

TRACTION (Gasfilled, Series Burning)

Nominal Watts	Rated Amps.	Voltages and List Prices*						Cap§	Approximate Dimensions			
		100, 110, 120, 130							Overall Length		Diameter	
		Clear		Pearl		Sprayed			m/m	in.	m/m	in.
40	0.35	s. 1	d. 7†	s. 1	d. 7†	s. 1	d. 9	B.C. (B22/25 x 26) E.S. (E27/25)	110	4.33	60	2.36
60	0.52	1	7†	1	7†	1	9		117.5	4.61	65	2.56

* Purchase Tax see note below.

† With fusible cut-out E.S. cap 40 volt and 50 volt only 2s. 3d. each.

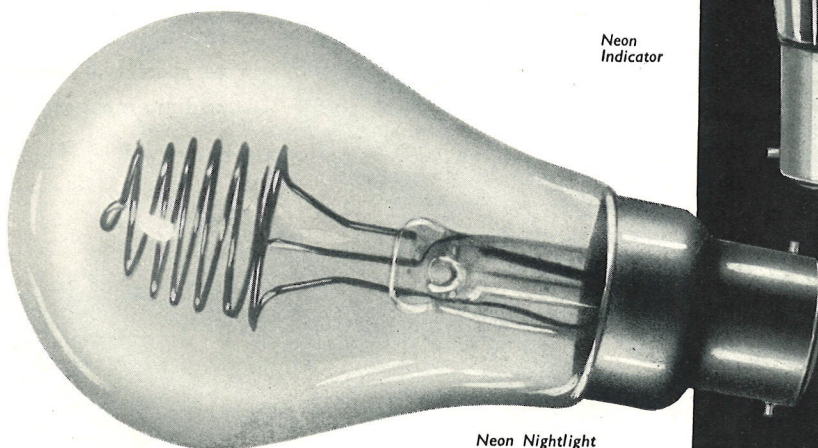
ROUGH SERVICE (Vacuum, Spiral Filament) CLEAR or PEARL

Watts	Voltages and List Prices*		Cap§	Approximate Dimensions				L.C.L.
				Overall Length		Diameter		
				m/m	in.	m/m	in.	m/m
40	s. d. 1 10		B.C. (B22/25 × 26)	110	4.33	60	2.36	80
60			or E.S. (E27/25)					

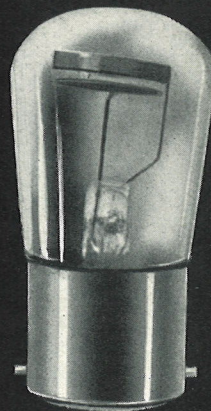
* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added, see TABLE A on the extension of page 53.

§ Cap illustrations will be found on pages 44 and 45.

NEON T&N SWITCH- BOARD TRACTION & ROUGH SERVICE LAMPS



Neon
Indicator



Neon Nightlight

PHOTO-GRAPHIC LAMPS

Photo-flood
Photo-pearl
Photo enlarger

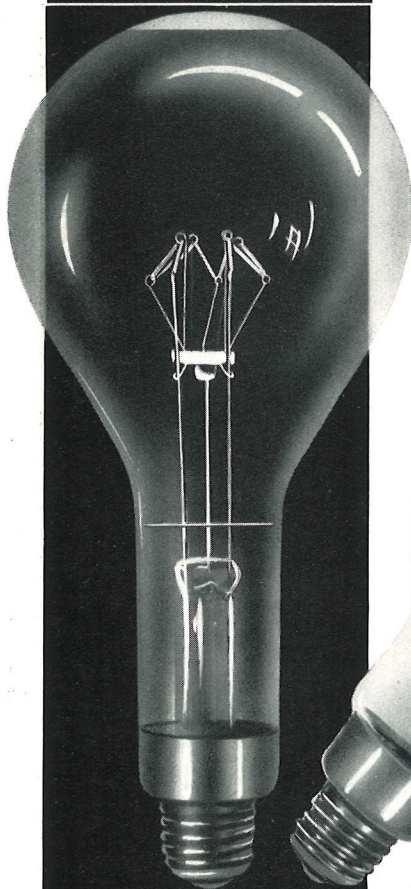


Photo-Enlarger



Photo-Pearl



Photo-Flood

PHOTOGRAPHIC LAMPS

Watts	Voltages	List Price	Cap§	Approximate Dimensions				Objective Life† Hours	
				Overall Length		Diameter			
				m/m	in.	m/m	in.		
PHOTO-FLOOD (Pearl)									
275	{ 100/110, 200/210 220/230, 240/250 }	2 3	{ B.C. (B22/25 × 26) E.S. (E27/25) }	117.5	4.61	65	2.56	2-3	
500	{ 100/110, 200/210 220/230, 240/250 }	6 0	E.S. (E27/25)	160	6.30	80	3.15	6-8	
1000	110	15 0	G.E.S. (E40/45)	233	9.17	110	4.33	10 (max.)	
PHOTOGRAPHIC PEARL									
500	110, 210, 230, 250	20 0	E.S. (E27/45 × 38)	175	6.86	100	3.94	100	
PHOTOGRAPHIC ENLARGER (Sprayed White)									
150	110, 210, 230, 240	3 3*	{ B.C. (B22/25 × 26 E.S. (E27/25) }	117.5	4.61	65	2.56	100	
PHOTOGRAPHIC ENLARGER (2 in. Spot Frosted)									
400	110, 210, 230, 250	25 0	E.S. (E27/45 × 38)	253	9.96	110	4.33	100	

* **Purchase Tax** must be added to the price of this lamp. For the exact amount of purchase tax to be added see TABLE A on the extension of page 53.

† **Light Output** of these lamps is given on page 46.

§ **Cap Illustrations** will be found on pages 44 and 45.

PHOTO-FLOOD

Mazda Photo-Flood Lamps for use on normal 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 both inside and outside the studio.

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, and are most economical in use.

FLASH DISCHARGE TUBES

Type	Volts	List Price (Purchase Tax not chargeable)	Cap	Dimensions m/m		
				Length (excluding pins)	Diameter of Glass	L.C.L.
FA 1	2000	£ 6 s. 0 d.	3-pin Special	150±7	64±4	89±5
FA 2	2000	5 0 0	3-pin 5 amp.	90±5	51±2	55±5

CHARACTERISTICS

Type	Volts	Capacity uF	Rate of Flashing per sec.	Energy per Flash W. sec.
FA 1	2000	200	1 in 10 sec.	400
		10	1	20
		0.1	100	2
		0.02	500	0.2
FA 2	2000	100	1 in 10 sec.	200
		5	1	10
		0.5	10	1
		0.05	100	0.1
		0.01	500	0.02

The ratings shown in this table are conservative and should be taken as a guide only.

Mazda Flash Discharge Tubes are intended to produce a flash of light of high intensity and short duration for either photographic or stroboscopic applications. The intensity of the flash and its duration may be controlled by varying the values of the components in the electrical circuit. The tubes may be flashed repeatedly for many thousands of times and they can be used either to give single flashes with relatively long intervening intervals for photographic purposes, or they can be flashed at a rate of up to some hundreds of flashes per second for stroboscopic applications.

MIDGET PHOTOFLASH LAMPS

Type	Volts	List Price (Purchase Tax not chargeable)	Cap	Overall Dimensions m/m	
				Length	Diameter
No. 5 SM	3-9	s. d. 1 10	S.C.C. (B15s/21)	64	34

Both the "No. 5" and "SM" are designed to give adequate light for general indoor photography. Their bulbs are lacquered both internally and externally, but it is recommended that they should be used in conjunction with a simple transparent protective screen.

"No. 5." This lamp is filled with shredded aluminium foil and is designed to operate with conventional synchronisms adjusted so that the camera shutter is fully opened in 20 milliseconds which is the time taken for the lamp to reach peak intensity.

"Speed Midget." The combustible material used in the "SM" lamp consists of zirconium mixed with oxidizing agents. It can be used with a simple pair of contacts which are closed immediately the blade or compur type shutter is released, thus synchronising with the peak intensity which occurs after 7 milliseconds.

Exposure Guide

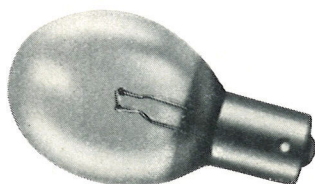
This table is a guide rather than a specific recommendation. It indicates for each of the two basic film speeds and for the two types of Mazda Photoflash lamps, a "Guide Number." This Guide Number refers to these lamps when used in a suitable reflector, with a camera fitted with an in-between-the-lens shutter and used in an average size room with medium coloured walls, with the lamp, camera and subject in a straight line.

This number divided by the distance in feet of the camera from the subject, gives the "f" or stop number to be used, e.g. with a Guide Number of 230 and a distance of 10 ft. the "f" number is $230 \div 10 = 23$. The nearest stop to this figure, say f 22, should be therefore used.

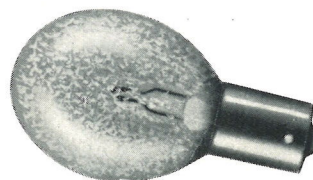
It is not possible to specify how these Photoflash lamps should be used with every type of camera but with Miniature Cameras fitted with focal plane shutters successful results are attainable with both the above Photoflash lamps when the "open flash" technique is used. Under this condition the above Guide Numbers apply.

Shutter Speed	Lamp	Film Speed	
		29° Sch.	32° Sch.
Time or Bulb up to $\frac{1}{80}$ sec.	SM	90	130
	No. 5	160	230
$\frac{1}{100}$ sec.	SM	90	130
	No. 5	130	190

Owing to the short duration of the SM flash, only the No. 5 lamp is suited for high speed synchronous flash work. The exposure must then be estimated in the light of experience and taking into account the shutter blind speed and other conditions.



Speed Midget



No. "5"

LAMPS for FLASH PHOTO- GRAPHY

Flash Tubes
Speed Midget
No.5 Flash



Flash Tube
F/A 2

PROJECTOR LAMPS

Class A1.
Vertical Grid
Filament

for use in
Cinematograph
Projectors
etc.



CLASS A1 (Purchase Tax not chargeable)

Burning Position—Cap-down (except where indicated)

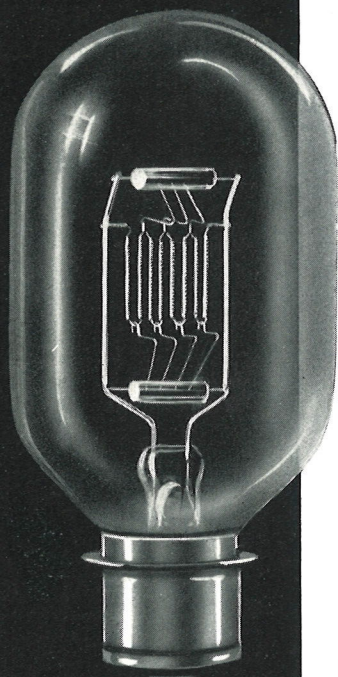
Watts	Voltages	List Price s. d.	Cap	Approx. Dimensions m/m			Special Features	Objective Life Hours
				Length	Diam.	L.C.L.		
10	20	4 0	S10/20 x 13, Pathé T Piece	60 max.	15	25	—	100
15	40	3 6	S.C.C. (B15s/21)	60 max.	16	29 ± 2	—	50
25	50	4 3	S.C.C. (B15s/21)	60 max.	17 max.	29 ± 2	—	50
50	100, 110, 115	6 6	S.C.C. (B15s), S.B.C. (B15d)	76 ± 3	25 ± 1	34.5 ± 2	—	50S
50	100, 110, 115	6 6	S.E.S. (E14/23 x 15)	78 ± 3	25 ± 1	43 ± 3	—	50S
100	12	10 9	E.S. (E27/25)	128 ± 7	25 ± 1	75 ± 5	—	50S
100	12	11 9	Prefocus (P28/25)	133 ± 7	25 ± 1	55.5 ± 0.5	—	50S
100	20	12 6	S.C.C. (B15s), S.B.C. (B15d)	76 ± 5	25 ± 1	34.5 ± 2	—	50
100	30	11 9	Prefocus (P28/25)	133 ± 7	25 ± 1	55.5 ± 0.5	Offset Fil.	50S
100	80	10 9	Pathé T Piece	93.5 ± 3	23	35 ± 0.5	Offset Fil.	50
100	100, 110, 115	11 9	S.C.C. (B15s) S.B.C. (B15d)	76 ± 5	25 ± 1	34.5 ± 2	—	50S
100	100, 110, 115	11 9	S.E.S. (E14/23 x 15)	80 ± 5	25 ± 1	45 ± 5	—	50S
100	100, 110, 115	11 9	Prefocus (P28/25)	133 ± 7	25 ± 1	55.5 ± 0.5	—	50S
100	200-10-20-30-40-250	10 9	E.S. (E27/25)	128 ± 7	25 ± 1	75 ± 5	—	50S
200	50	21 0	E.S. (E27/25)	128 ± 7	32 ± 2	75 ± 5	Central or Offset Fil.	50S
200	50	22 0	Prefocus (P28/25)	133 ± 7	32 ± 2	55.5 ± 0.5	Central or Offset Fil.	50S
200§	100	23 6	3-pin B.C.	82 ± 3	32 ± 2	51	Offset Fil. Cap-up Burning	25
200§	100	16 9	S.E.S. (E14/23 x 15)	90 ± 5	25 ± 1	43 ± 3	—	25S
200§	100	16 9	S.C.C. (B15s), S.B.C. (B15d)	87 ± 5	25 ± 1	34.5 ± 2	—	25S
200§	100, 110	17 9	Prefocus S.C.C. (P15s), S.B.C. (P15d)	87 ± 5	25 ± 1	31.5 ± 0.5	—	25S
200	100, 115	16 9	S.C.C. (B15s/17), S.B.C. (B15d/17)	87 ± 5	32 ± 2	34.5 ± 2	—	50
200	110	17 9	Pathé T Piece	133 ± 7	32 ± 2	58 ± 0.5	Offset Fil.	50
200	110	16 9	E.S. (E27/25)	128 ± 7	32 ± 2	75 ± 5	—	50S
200	110	17 9	Prefocus (P28/25)	133 ± 7	32 ± 2	55.5 ± 0.5	—	50S
250	50	22 0	Prefocus B & H	128 ± 7	32 ± 2	59 ± 0.5	Central Fil.	50S
250	50	21 0	E.S. (E27/25)	128 ± 7	32 ± 2	75 ± 5	Central or Offset Fil.	50S
250	50	22 0	Prefocus (P28/25)	133 ± 7	32 ± 2	55.5 ± 0.5	Central or Offset Fil.	50S
250	55	22 0	Prefocus (P28/25)	133 ± 7	32 ± 2	55.5 ± 0.5	Central Fil.	50S
250	100, 110, 115	21 0	Prefocus (P28/25)	133 ± 7	32 ± 2	55.5 ± 0.5	Central Fil.	50S
250	200-10-20-30-40-250	20 0	E.S. (E27/25)	128 ± 7	32 ± 2	75 ± 5	Central Fil.	50S

For Notes see opposite page.

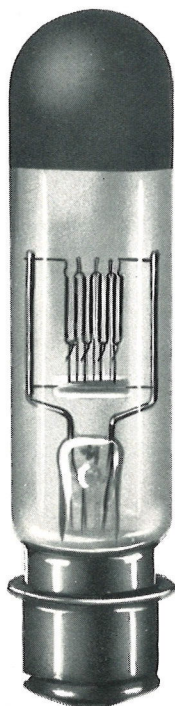
Lamps listed in red are made to B.S.S. and are normally readily available from stock.

CLASS A1 PROJECTOR LAMPS

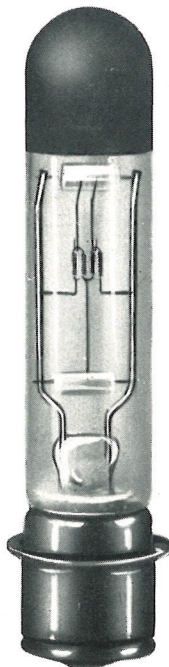
Class A1 lamps have tubular bulbs and are used for cap-down burning in Cinema Projectors, Home Cinema Apparatus, Advertising Projectors, Photo-enlarging Apparatus, etc. They can be brought close to the lens and by use of a short focus condenser, an unusually large proportion of light can be transmitted. For the home cinema the introduction of the prefocus cap has reduced focusing difficulties to a minimum.



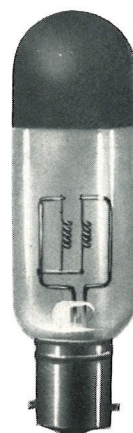
230 v. 500 w.
Prefocus



230 v. 250 w.
Prefocus



30 v. 100 w.
Prefocus



100 v. 200 w.
S.C.C.

CLASS A1 (Purchase Tax not chargeable) **Burning Position—Cap-down (except where indicated)**

Watts	Voltages	List Price s. d.	Cap	Approx. Dimensions m/m			Special Features	Objective Life Hours
				Length	Diam.	L.C.L.		
300§	100, 115	26 0	{ Prefocus S.C.C. (P15s), S.B.C. (P15d) }	100±5	25±1	31.5±0.5	—	25S
300§	100, 115	25 0	{ S.C.C. (B15s/21), S.B.C. (B15d/21) }	100±5	25±1	34.5±2	—	25S
300§	100, 110, 115	25 0	E.S. (E27/25)	128±7	32±2	75 ±5	—	25S
300§	100, 110, 115	26 0	Prefocus (P28/25)	133±7	32±2	55.5±0.5	—	25S
300§	100, 110, 115	31 9	S. 26s/25 large B & H Ring	128±7	32±2	59 ±0.5	Bi-plane Fil.	25S
400§	100, 110, 115	30 9	E.S. (E27/25)	128±7	32±2	75 ±5	Bi-plane Fil.	25S
400§	100, 110, 115	31 9	Prefocus (P28/25)	133±7	32±2	55.5±0.5	Bi-plane Fil.	25S
400§	110	31 9	Prefocus B & H	128±7	32±2	59 ±0.5	Bi-plane Fil.	25S
450	15	40 0	Special 2 prong	195	{ 79 30 }	136	{ Special Shape Bulb Cap-up Burning }	100
500	{ 100, 110, 115 200-10-20-30-40-250 }	24 0	E.S. (E27/25)	128±7	64±2	75 ±5	—	50
500	{ 100, 110, 115 200-10-20-20-20-250 }	24 0	G.E.S. (E40/45)	135±10	64±2	90 ±5	—	50
500	{ 100, 110, 115 200-10-20-30-40-250 }	26 6	Mogul Prefocus (P40/41)....	140±10	64±2	50 ±0.5	—	50
500	{ 100, 110, 115 200-10-20-30-40-250 }	25 0	Prefocus (P28/25)	133±7	64±2	55.5±0.5	—	50
500§	110	37 6	3-pin B.C. (B22/25 × 26)	142 max.	38 max.	95	{ Bi-plane Fil. Offset Cap-up Burning }	25
500§	110	33 9	Prefocus B & H (S26/25)	128±7	32±2	59 ±0.5	Bi-plane Fil.	25S
500§	110, 115	32 9	E.S. (E27/25)	128±7	32±2	75 ±5	Bi-plane Fil.	25S
500§	110, 115	33 9	Prefocus (P28/25)	133±7	32±2	55.5±0.5	Bi-plane Fil.	25S
500§	115	37 6	Miniature Bipost	125 max.	38±1	81 ±1	Bi-plane Fil. Offset	25
750	15	35 0	G.E.S. (E40/45)	230±10	64±2	120 ±5	—	50
750	15	37 6	Mogul Prefocus (P40/41)....	235±10	64±2	84 ±0.5	—	50
750§	110	41 6	3-fin Ring	145±8	38 max.	81	{ Bi-plane Fil. Offset Cap-up Burning }	25
750§	110	38 9	Prefocus B & H	128±7	38±2	59 ±0.5	Bi-plane Fil.	25S
750§	110, 115	37 9	E.S. (E27/25)	128±7	38±2	75 ±5	Bi-plane Fil.	25S
750§	110, 115	38 9	Prefocus (P28/25)	133±7	38±2	55.5±0.5	Bi-plane Fil.	25S
900	24, 30	35 0	G.E.S. (E40/45)	230±10	64±2	120 ±5	—	50
900	30	37 6	Mogul Prefocus (P40/41)....	235±10	64±2	84 ±0.5	—	50
1000§	100	45 0	Prefocus B & H	175	38±2	78	Bi-plane Fil.	25S
1000	{ 100, 110, 115 200-10-20-30-40-250 }	30 0	G.E.S. (E40/45)	230±10	64±2	120 ±5	—	50
1000	{ 100, 110, 115 200-10-20-30-40-250 }	32 6	Mogul Prefocus (P40/41)....	235±10	64±2	84 ±0.5	—	50
1000§	110, 115	45 0	Prefocus (P28/25)	133±7	38±2	55.5±0.5	Bi-plane Fil.	25S
1000§	110, 115	45 0	Prefocus B & H	128±7	38±2	59 ±0.5	Bi-plane Fil.	25S
1000§	110	45 0	Prefocus (P28/25)	133±7	64±2	55.5±0.5	Bi-plane Fil.	25

§ Forced cooling is necessary for these lamps so that no part of the wall of the bulb exceeds a temperature of 500°C.
S. These lamps are black sprayed. Where bulbs are tip black sprayed, the 25m/m diameter bulb is sprayed to 22.5±2.5 m/m from the centre of the filament to the edge of the black spray; in the case of the 32 and 38 m/m dia. bulbs to 27.5±2.5 m/m.
Cap Illustrations will be found on pages 44 and 45.

115 v. 500 w.
Min. Bipost

100 v. 750 w.
B. & H.

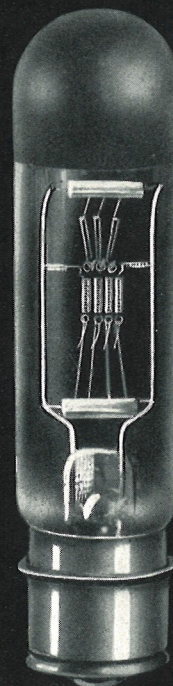
115 v. 100 w.
Prefocus

115 v. 500 w
Prefocus

PROJECTOR LAMPS

Class A1.
Vertical Grid
Filament

for use in
Cinematograph
Projectors
etc.



PROJECTOR LAMPS

Class A3.

*Horizontal Grid
Filament for
Spot Lighting*

Class B1. & B2.

*Bunch Filament
for Floodlighting*



CLASS A3, B1 and B2

Watts	Voltages	List Price s. d.	Cap	Approx. Dimensions m/m			Objective Life Hours
				Length	Diam.	L.C.L.	
CLASS A 3 <i>Burning Position—Horizontal</i>							
100	{ 200-10-20-30-40-250 } ¹¹⁰	10 9	E.S. (E27/25)	115±10	70±2	95±5	300
250	{ 200-10-20-30-40-250 } ¹¹⁰	20 0	E.S. (E27/35 × 30)	160±10	90±2	120±5	300
CLASS B 1† <i>Burning Position—Any, except within 45° of Cap-up position</i>							
100	{ 200-10-20-30-40-250 } ¹¹⁵	9 0 *	E.S. (E27/25)	115±10	80±2	75±5	800
250	{ 200-10-20-30-40-250 } ¹¹⁵	17 6 *	E.S. (E27/25)	125±10	95±2	75±5	800
500	{ 200-10-20-30-40-250 } ¹¹⁵	23 0	G.E.S. (E40/45)	180±10	130±5	115±5	800
1000	{ 200-10-20-30-40-250 } ¹¹⁵	30 0	G.E.S. (E40/45)	180±10	130±5	115±5	800
CLASS B 2† <i>Burning Position—Any</i>							
500	{ 200-10-20-30-40-250 } ¹¹⁵	23 0	G.E.S. (E40/45)	267±8	130±5	202±7	800
1000	{ 200-10-20-30-40-250 } ¹¹⁵	30 0	G.E.S. (E40/45)	300±9	150±5	225±8	800

† CLASS B 1 and B 2 lamps are made to B.S.S. and are normally readily available from stock.

*Purchase Tax equal to 26% must be added to the list price of these lamps. For the exact amount of purchase tax to be added see TABLE A on the extension of page 53.

Cap Illustrations will be found on pages 44 and 45.

CLASS A 3 PROJECTOR LAMPS

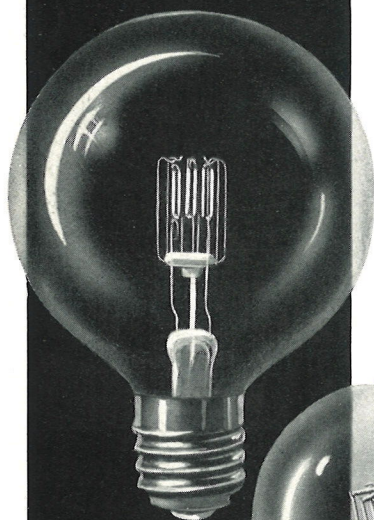
Class A3 lamps are used extensively for various stage lighting purposes in theatres and cinemas, and have also found wide application in Photographic and Film Studios.

They are intended for burning in a horizontal position, but slight variations of burning angle up to about 15° will not affect the life.

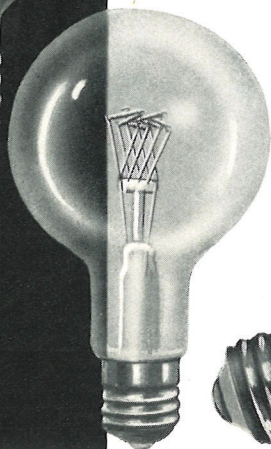
CLASS B 1 and B 2

Class B1 and B2 lamps are made with concentrated bunch filaments of small area and are particularly suitable for use in conjunction with parabolic mirrors. They are 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.

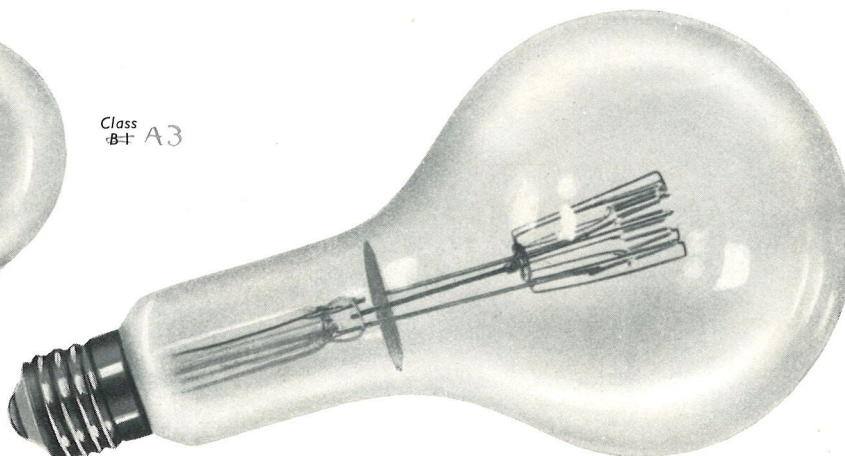
Class B1 lamps may be burned in any position except within 45° of Cap-up position. Class B2 lamps may be burned in any position including cap up.



Class
A3 B1



Class
A3



Class B 2

CLASS E, EPIDIASCOPE

Burning Position—Cap-down, up to 45° from vertical

Watts	Voltages	List Price† s. d.	Cap	Approx. Dimensions m/m			Objective Life Hours
				Length	Diam.	L.C.L.	
500	{ 115 200-10-20-30-40-250 }	31 0	Prefocus (P28/25)	135±10	100±2	60±0.5	100
500	{ 110 200-10-20-30-40-250 }	30 0	E.S. (E27/30)	135±10	100±2	85±5	100
500	{ 110 200-10-20-30-40-250 }	31 0	Prefocus (P28/25)	130±10	95±2	55.5±0.5	100

† Purchase Tax not chargeable.

CLASS F, MICRO-PROJECTION

Watts	Voltages	List * Price s. d.	Special Features	Cap	Approx. Dimensions m/m			Objective Life Hours
					Length	Diam.	L.C.L.	
9	18	4 0	Round bulb	M.E.S. (E10/20×13)	36±3	18±1	25 ±2	100
12	12	4 0		S.B.C. (B15d/24×18)	57±5	37 max.	40 ±3	100
24	6	3 9		S.E.S. (E14/23×15)	60±5	38±2	50 ±5	100
24	6	3 9		E.S. (E27/25)	57±5	38±2	47 ±5	100
24	12	3 9		S.E.S. (E14/23×15)	60±5	38±2	50 ±5	100
24	12	3 9		S.E.S. (E14/23×15)	60±5	38±2	41 ±3	100
24	12	3 9	Transverse Filament	S.B.C. (B15d/24×18)	60±5	38±2	44 ±5	100
30	6	6 0	Transverse Filament	E.S. (E27/35×30)	63±5	35±2	53 ±5	25 or 200
30	6	6 0		S.E.S. (E14/23×15)	57±5	35±2	47 ±5	25
48	6	7 6	Transverse Filament	S.B.C. (B15d/24×18)	60±5	35±2	40 ±3	100
48	12	5 6	Twin Pillar	S.E.S. (E14/23×15)	70±5	50±2	40 ±3	100
48	12	5 6	Axial Filament	E.S. (E27/25)	70±5	50±2	38 ±5	100
72	6	10 9	Ribbon Filament horizontal	E.S. (E27/25)	128±7	32±1	75 ±3	100
100	12	12 0		E.S. (E27/25)	85±5	60±2	55 ±5	100
103	6	31 0	Ribbon Filament vertical	Prefocus (P28/25)	133±7	32±2	55.5±0.5	50
108	6	30 0		E.S. (E27/25)	128±7	32±2	75 ±5	50
103	6	31 0	Ribbon Filament vertical	Prefocus (P28/25)	133±7	32±2	55.5±0.5	50
108	6	30 0		E.S. (E27/25)	128±7	32±2	75 ±5	50

Lamps listed in red are made to B.S.S. and are normally readily available from stock.

*Purchase Tax equal to 26% of List Price must be added to the prices in this column. For the exact amount of purchase tax to be added, see TABLE A on the extension of page 53.

Cap Illustrations will be found on pages 44 and 45.

CLASS E, EPIDIASCOPE

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

CLASS F, MICRO-PROJECTION

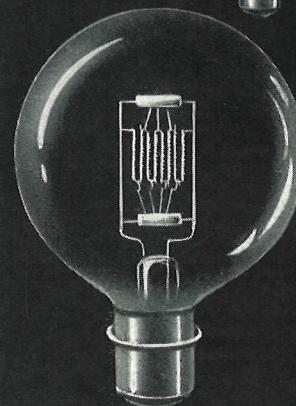
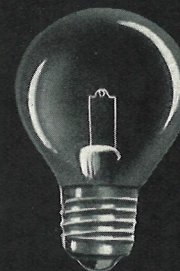
Class F lamps have been specially designed to the requirements of micro-projection. Being of low voltage, they can be conveniently operated from batteries or from the mains through a suitable resistance or transformer. Microscope illumination, small home cine projectors, sound recording are but a few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

Illustrations { Top Class F, 24 w
Left Centre Class F, 100 w.
Right Centre Class F, 48 w. Transverse Fil.
Bottom Class E, Prefocus

PROJECTOR LAMPS

Class E
Epidiascope

Class F
Micro-Projector



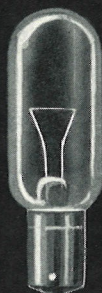
PROJECTOR LAMPS

Class G
Exciter

for Sound
Film Projection

'Line' Filament
Tubular

for Floodlighting



Class G
7.5 amp.
10 volt

Class G
4 amp.
8 volt

Class G
0.75 amp.
8 volt

CLASS G, EXCITER

Must not be burned cap-up

Amps	Voltages	List Price† s. d.	Cap§	Approx. Dimensions m/m			Obj'tive Life Hours
				Length	Diam.	L.C.L.	
0.2	7 (EL No. 1)	5 6	Prefocus (P15s/19)	57±3	16±1	28.5±0.5	100
0.75	4 6 6	6 6	Prefocus (P15s/19)	48±3	25±1	28.5±0.5	50
0.75	4 5 6	5 6	S.C.C. (B15s/21)	48±3	25±1	32 ±1.5	50
0.75	4 5 6	5 6	B15s and liner	48±3	15.5±1	31.75±0.75	50
1.0	6 5 6	5 6	S.C.C. (B15s/17)	40±2	18±1	21.5±0.5	100
1.0	6 5 6	5 6	Prefocus (P15s/19)	57±3	16±1	28.5±0.5	100
1.0	27 8 6	8 6	S.C.C. (B15s/21)	75±3	25±1	41 ±1	100
2.0	8 (EL No. 4)	5 6	S.C.C. (B15s/21)	75±3	25±1	44 ±1	100
4.0	8 (EL No. 2)	5 6	S.C.C. (B15s/21)	75±3	25±1	44 ±1	100
4.0	8 6 6	6 6	Prefocus (P15s/19)	75±3	25±1	37.3±0.5	100
4.0	8.5 (EL No. 3)	5 6	S.C.C. (B15s/21)	75±3	25±1	44 ±1	100
5.0	10 (EL No. 5)	7 6	S.C.C. (B15s/21)	75±3	25±1	41 ±1	100
5.0	10 8 6	8 6	Prefocus (P15s/19)	75±3	25±1	37.3±0.5	100
5.0	10 (EL No. 6)	7 6	S.C.C. (B15s/21)	75±3	25±1	44 ±1	100
6.0	4 6 0	6 0	S.C.C. (B15s/17)	60 max.	18±1	30 ±0.5	100
6.0	4 6 0	6 0	S.C.C. (B15s/21)	49±2.5	25±1	31.5±1	100
7.5	10 (EL No. 7)	7 6	S.C.C. (B15s/21)	75±3	25±1	41 ±1	100
7.5	10 8 6	8 6	Prefocus (P15s/19)	75±3	25±1	37.3±0.5	100
7.5	10 (EL No. 8)	7 6	S.C.C. (B15s/21)	75±3	25±1	44 ±1	100

TUBULAR FLOODLIGHT

Burning Position—Horizontal

Watts	Voltages	List Price† s. d.	Cap§	Approx. Dimensions m/m		Obj'tive Life Hours
				Length	Diameter	
500	{ 115 200-10-20-30-40-250 }	35 0	G.E.S. (E40/45)	355±10	90±1	1000
1000	{ 115 200-10-20-30-40-250 }	45 0	G.E.S. (E40/45)	390±10	90±1	1000

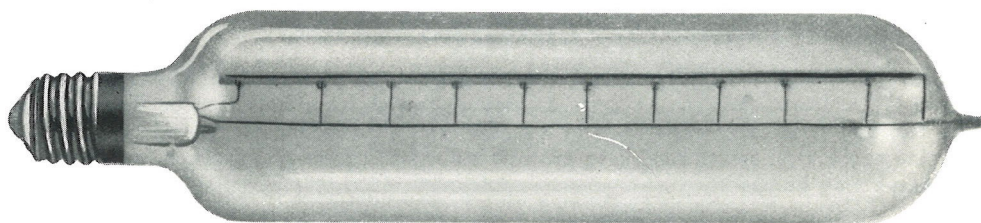
† Purchase Tax not chargeable.

§ Cap Illustrations will be found on pages 44 and 45.

Lamps listed in red are made to B.S.S. and are normally readily available from stock.

CLASS G EXCITER

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



Tubular Floodlight

STUDIO SPOTLIGHTS

Watts	Voltages	List Price† s. d.	Cap§	Approximate Dimensions m/m			Objective Life Hours
				Length	Diameter	L.C.L.	
1000	115, 210, 230, 240, 250	65 0	Bipost	232±6	152.5±2	127±2	100
2000	115, 210, 230, 240, 250	85 0	Bi-post	232±6	152.5±2	127±2	100
2000	115, 230, 240, 250	85 0	G.E.S. (E40/45)	220±10	150 ±2	134±5	100
5000	115, 230, 240, 250	300 0	Bi-post	335±6	203 ±2	165±2	100

† Purchase Tax not chargeable.

"BROADSIDE"

Watts	Voltages	List Price† s. d.	Cap§	Approximate Dimensions m/m			Objective Life Hours
				Length	Diameter	L.C.L.	
1000	110, 115	16 0	G.E.S. (E40/45)	300	150	225	1000
1500	110, 115	22 6	G.E.S. (E40/45)	335	170	250	1000

† Purchase Tax not chargeable.

COLOUR TEMPERATURE 3400°K

Watts	Voltages	List Price† s. d.	Cap§	Approximate Dimensions m/m			Objective Life Hours
				Length	Diameter	L.C.L.	
2000	115	85 0	Bi-post	232±6	152.5±2	127±2	25
5000	115	300 0	Bi-post	335±6	203 ±2	165±2	50

† Purchase Tax not chargeable.

§ Cap Illustrations will be found on pages 44 and 45. Details of Bi-post lampholders are given on page 47.

HOSPITAL THEATRE DOUBLE FILAMENT PEARL LAMP

Filament	Watts	Voltages	List Price* s. d.	Cap	Approx. Dimensions m/m			Objective Life Hours
					Length	Diam.	L.C.L.	
Emergency	100	12	26 0	Special Screw Contact	215	121	135	100
Mains	150	210-30-40-250					160	1000

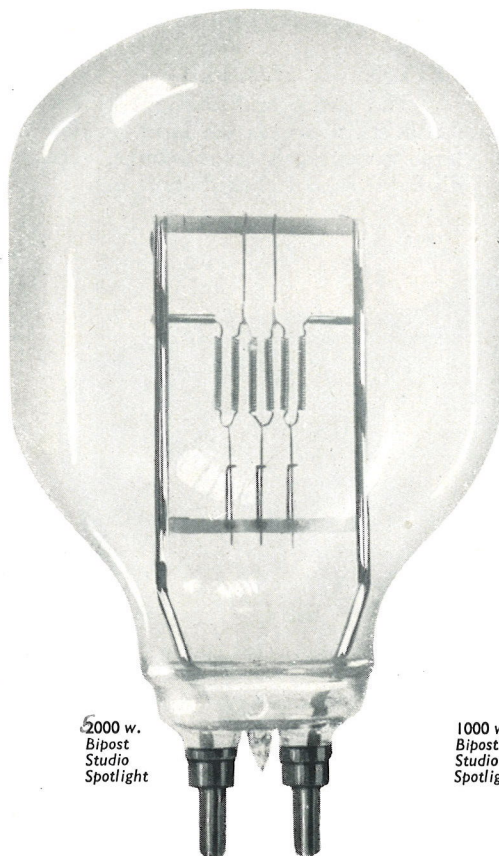
*Purchase Tax must be added to the price of this lamp. For the exact amount of purchase tax to be added, see TABLE A on the extension of page 53.

FILM STUDIO LAMPS

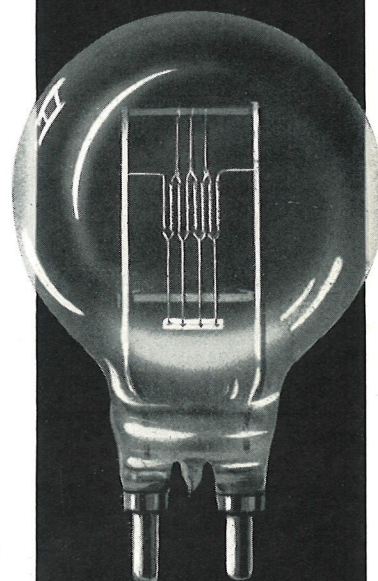
The Tubular Floodlights (see previous page), Studio Spotlights, and "Broadside" Lamps fully meet the exacting requirements of film production whether sound or silent, in black and white, or in colour. They are silent in operation. Their light is definite and constant in colour, bringing out the full 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. The Colour Temperature Lamps have been specially developed for the making of colour films.

HOSPITAL THEATRE LAMP

The Hospital Theatre Lamp has a secondary filament which operates off a low volt emergency supply in the event of a mains failure.



2000 w.
Bi-post
Studio
Spotlight



1000 w.
Bi-post
Studio
Spotlight

PROJECTOR LAMPS

Studio Spotlight
Colour Temperature
'Broadside'
&
Hospital Theatre



REFLECTOR SPOTLIGHT

*for Display
and
Photographic
Lighting*



REFLECTOR SPOTLIGHT (Satin Frosted)

Watts	Volts	List Price*		Cap	Approximate Dimensions			
		Ring Filament s. d.	Grid Filament s. d.		Length		Diameter	
					m/m	in.	m/m	in.
150	{ 110, 210, 230, 250, }	15 0	18 0	E.S. (E27/54×38)	176±6·5	6·93	126±1·5	4·96

REFLECTOR FLOODLIGHT (Pearl)

Watts	Volts	List Price*	Cap	Approximate Dimensions			
				Length		Diameter	
				m/m	in.	m/m	in.
150	{ 110, 210, 230, 250 }	15 0	E.S. (E27/54×38)	176±6.5	6.93	126±1.5	4.96

*Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added, see TABLE A on the extension of page 53.

REFLECTOR LAMPS

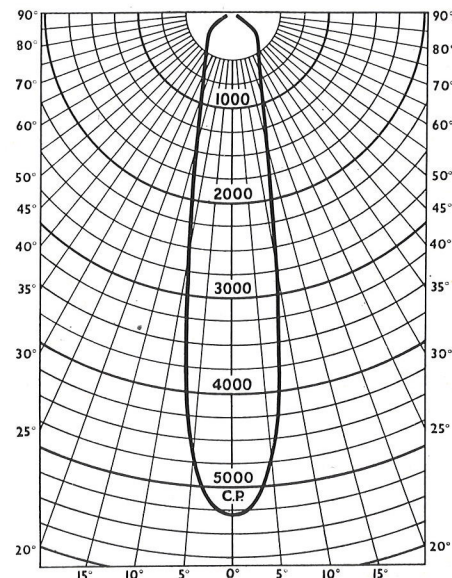
These lamps are parabolic in shape and have the upper part coated on the inside with aluminium to form a highly efficient internal reflector which enables the light output to be used with maximum effect. Being protected by the glass and by the inert gas filling, the reflector does not tarnish and its initial efficiency is, therefore, maintained to a high degree throughout the life of the lamp.

REFLECTOR SPOTLIGHTS

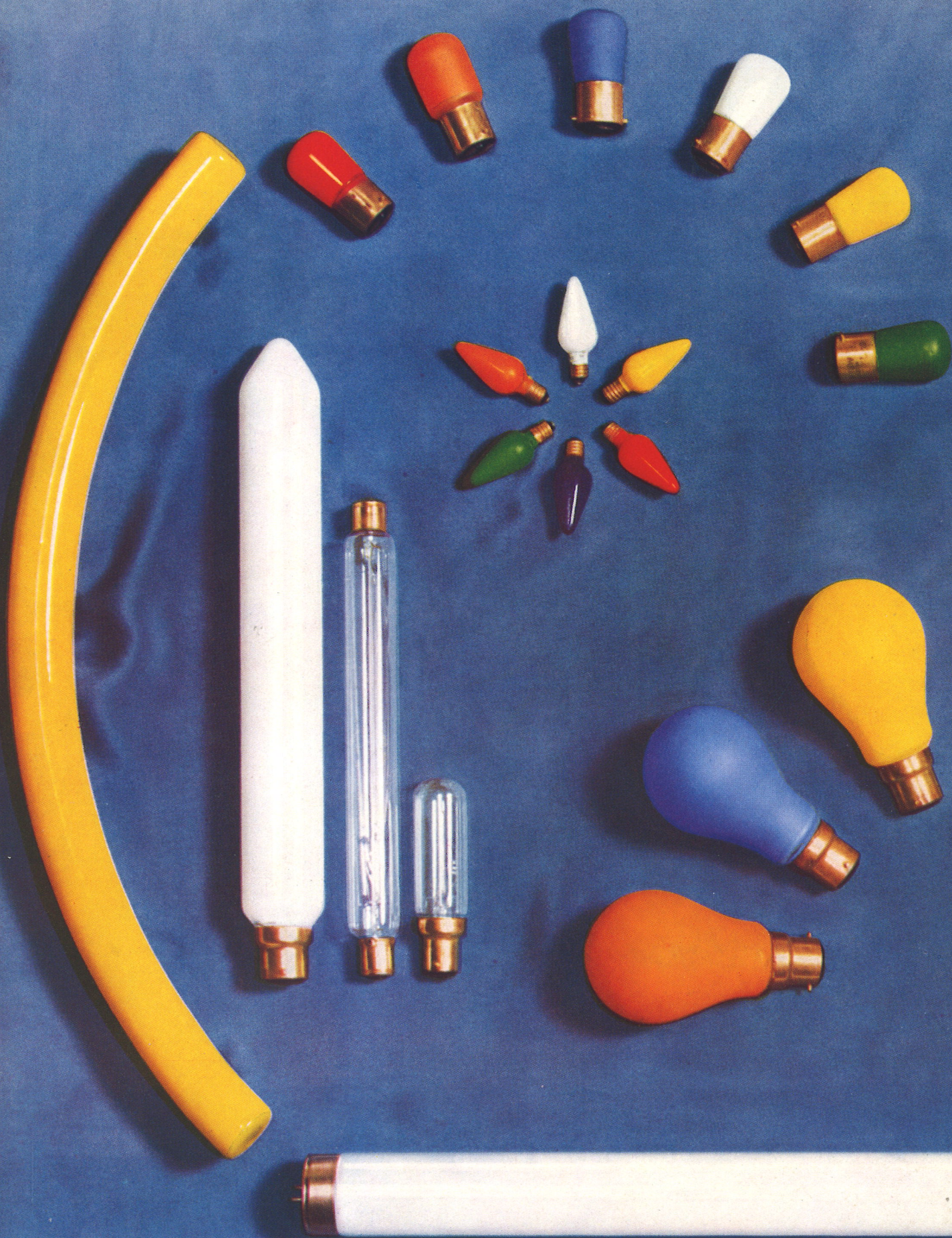
Both the lamps listed above are satin-frosted and the combination of filament and internal reflector ensures that the majority of the light output is concentrated into a narrow beam. The lamp is thus ideally suited for giving sparkle and emphasis to displays in show-rooms, shop windows etc. and can also be used for lighting photographic subjects, both in the studio and in the home.

REFLECTOR FLOODLIGHT

The Reflector Floodlight differs from the Reflector Spotlight in having a pearl finish. This spreads the beam so that the light can be projected on to comparatively large areas, such as hoardings, exhibition displays, school chalk-boards etc.



Polar Diagram showing Light
Distribution of
Reflector Spotlight with Grid
Filament

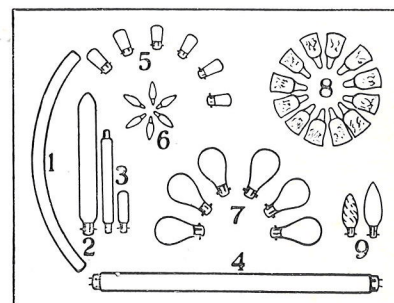


MAZDA LAMPS

for

DECORATIVE PURPOSES

- | | |
|-----------------|---------|
| 1. Light Tubes | page 13 |
| 2. Longlite | page 12 |
| 3. Tubular | page 12 |
| 4. Fluorescent | page 10 |
| 5. Sign | page 16 |
| 6. Fairylights | page 15 |
| 7. Sprayed | page 16 |
| 8. Disneylights | page 14 |
| 9. Candle | page 12 |



The Outshining Light

INFRA-RED

Watts	Voltages	List Price	Cap	Approximate Dimensions				
				Length		Diameter		
WITH INTERNAL REFLECTOR				Parabolic Bulb				
250	100/130	s. 15 d. 0	E.S. (E27/54×38) Cementless	m/m 177±6.5	in. 6.97	m/m 126±1.5	in. 4.96	
FOR USE WITH EXTERNAL REFLECTOR				Round Bulb				
250	100/130	Clear s. 7 d. 6	Pearl s. 8 d. 0	E.S. (E27/30)	178±5	7.00	90±1	3.54
WITH METAL FILAMENT (Radiant Heat)				Round Bulb				
60	210-230-250	s. 2 d. 0	{ B.C. (B22/25×26) or E.S. (E27/25) }	117.5±3.5	4.61	65±1	2.56	

Purchase Tax. Where the 250 watt lamps are ordered as part of a new installation of Infra-Red equipment, no Purchase Tax is payable. Where lamps are ordered as replacements, Purchase Tax must be added. The 60 watt lamp is always subject to Purchase Tax. For the exact amount see TABLE A on the extension of page 53.

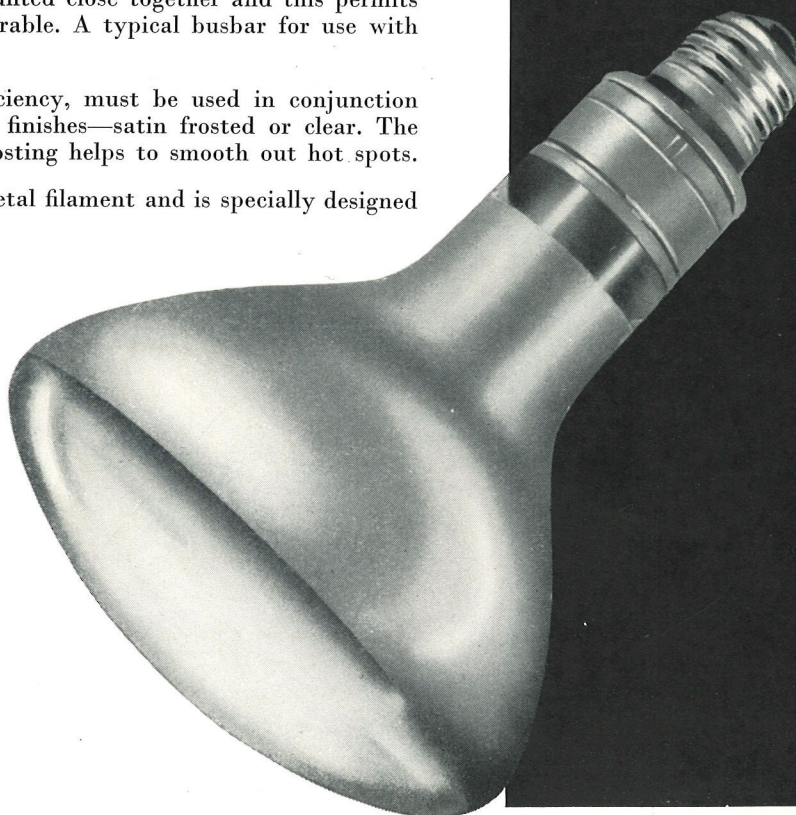
INFRA-RED LAMPS

Mazda 250 watt Infra-Red Lamps are extensively used for Industrial baking and drying processes, and because of their wavelength they are also suitable for heat therapy both in the home and the clinic. They operate two in series on 200/250 volt supplies. Visible light forms only a small percentage of radiant energy, the bulk of which is produced at the invisible infra-red wavelengths.

The reflector type lamp has a parabolic shaped bulb which is satin frosted. The upper half of the bulb is coated on the inside with aluminium to form an efficient reflector which concentrates the radiant energy from the filament into a beam which has a total spread of not more than 120 degrees. Being protected by the glass and the inert gas filling, the reflector does not tarnish and therefore its initial efficiency is maintained to a high degree throughout the lamp life. The outer surface of the glass bulb can readily be cleaned to prevent reduction of the radiation by dust, paint splashes etc., and the lamp is fitted with a mechanically attached (cementless) cap to enable it to withstand the severe heating conditions in an infra-red oven. Since no external reflector is required, lamps can be mounted close together and this permits a high degree of concentration where it is desirable. A typical busbar for use with these lamps is illustrated on page 51.

The non-reflector lamp, for maximum efficiency, must be used in conjunction with an external reflector. This lamp has two finishes—satin frosted or clear. The former is generally to be preferred since the frosting helps to smooth out hot spots.

The 60 watt Radiant Heat Lamp has a metal filament and is specially designed for use in clinical apparatus employed for heat therapy in hospitals and clinics.



INFRA-RED LAMPS

Reflector &
Non-Reflector Types

*for Industrial
Drying & Baking*

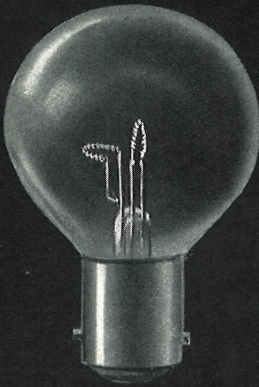
Metal Filament Type

*for Hospital
Treatment*



MOTOR CAR BULBS

Ordinary
Headlamps
Single and
Double Filament



SINGLE FILAMENT HEADLAMPS

Standard Cap :—S.C.C. (B15s/17)

Standard Filament :—Axial

Bulb :—Round or Pear-shaped

Volts	Watts	List Price *		Dimensions					
				Length		Diameter		L.C.L.	
		s.	d.	m/m	in.	m/m	in.	m/m	in.
4	8	4	0	56	2.20	38	1.50	28.5	1.12
6	18	3	0						
6	24	2	6						
6b	30	3	3						
6c	36	2	9						
12	24	2	6	63	2.48	50	1.97	28.5	1.12
12b	36	2	6						
12c	48	4	0						
12b	60	5	6	56	2.20	38	1.50	28.5	1.12
24ac	36	3	0						
24a	48	4	6						
24a	60	6	0	63	2.48	50	1.97	28.5	1.12

*Purchase Tax see note below.

(a) For S.B.C. or B.C. or Coiled Coil Filament, No Extra.

(b) For "V" Filament, No Extra.

(c) For Pre-focus (P15s or P15d) Cap 6d. Extra, and for "U" Filament 3d. Extra for these lamps only.

Extras :—For S.B.C., A.S.C.C., or A.S.B.C. caps 1d. Extra. For Bosch cap 3d. Extra.

DOUBLE FILAMENT HEADLAMPS

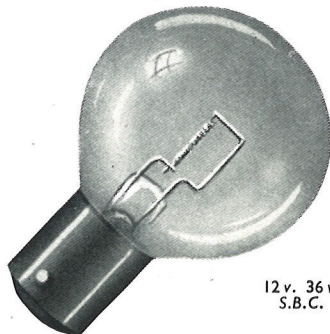
Standard Caps :—S.B.C. (B15d/17) or A.S.B.C. (B15d/21)

Volts	Watts	List Price *		Dimensions			
				Length		Diameter	
		s.	d.	m/m	in.	m/m	in.
6	18 & 18	4	6	56	2.20	38	1.50
6	24 & 24	3	6				
6	30 & 30	4	0				
6	36 & 36	3	6				
12	24 & 24	4	6				
12	36 & 36	3	6				

*Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the extension of page 53.

Extras :—For Bosch cap 3d. Extra. For Prefocus cap 6d. Extra.

6 v. 36/36 w.
S.B.C.



12 v. 36 w.
S.B.C.

MAZDA HEADLAMPS

Many motor cars still operate with headlamps fitted with normal Bayonet Caps as listed on this page. The modern trend, however, is for headlamps with prefocus caps, and BTH has been to the forefront in developing this type of lamp for British cars of all makes. For listings see opposite page.

SINGLE FILAMENT (British Type) PREFOCUS HEADLAMPS

Standard Caps :—(P22s/21) or (P22d/21)

Volts	Watts	List Price * s. d.	Description	Contact	Dimensions					
					Length		Diameter		L.C.L.	
					m/m	in.	m/m	in.	m/m	in.
6	24	3 9	Single Coil Axial Fil.	Single	62 (max)	2.44	28	1.10	21.5	0.85
6	36	3 9	Single Coil Axial Fil.	Single						
6	36	4 0	Single Coil "U" Fil.	Single						
12a	36	3 9	Coiled Coil Axial Fil.	Single						
12a	36	3 9	Coiled Coil Axial Fil.	Double						
12	48	5 0	Single Coil "U" Fil.	Single						
12	48	4 9	Coiled Coil Axial Fil.	Single						
24	36	4 9	Coiled Coil Axial Fil.	Single						
24	36	4 9	Coiled Coil Axial Fil.	Double						

*Purchase Tax see note below.
(a) Also available in Single Coil.

DOUBLE FILAMENT (British Type) PREFOCUS HEADLAMPS

Standard Cap :—(P22d/21)

Volts	Watts	List Price * s. d.	Description	Contact	Dimensions					
					Length		Diameter		L.C.L.	
					m/m	in.	m/m	in.	m/m	in.
6	36 & 36	4 6	Single Coil Trans. Fil.	Double	62 (max.)	2.44	28	1.10	21.5	0.85
12a	36 & 36	5 0	Coiled Coil Trans. Fil.	Double						
24	36 & 36	6 9	Coiled Coil Fil.	Double						

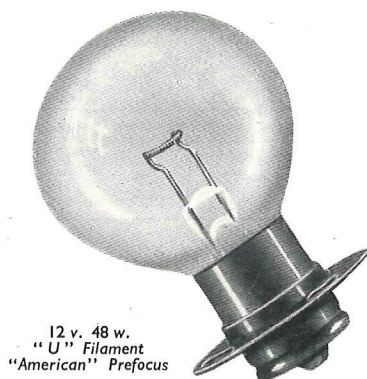
*Purchase Tax see note below.
(a) Also available in Single Coil.

SINGLE FILAMENT (American Type) PREFOCUS HEADLAMPS

Standard Caps :—(PI5s) or (PI5d)

Volts	Watts	Description	List Price *	
			s.	d.
6	36	Single Coil "U" Filament	3	6
12	48	Single Coil "U" Filament	4	9
24	36	Coiled Coil "U" Filament	3	9

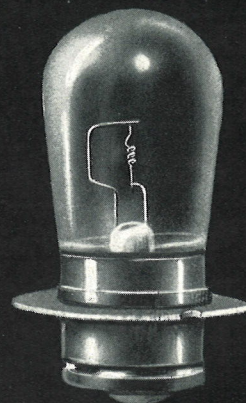
*Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the extension of page 53.



12 v. 36 w.
Prefocus

MOTOR CAR BULBS

Prefocus
Headlamps
Single and
Double Filament



MOTOR CAR BULBS

Side Tail
Dash Stop
Indicator
Festoon
Trafficator



SIDE, TAIL, DASH LIGHTS

Standard Cap :—S.C.C. (B15s/17)†

Volts	Watts	List Price *		Dimensions			
				Length		Diameter	
				m/m	in.	m/m	in.
4	3	2	3	32.5	1.32	18	0.71
6†	3	1	6	32.5	1.32	15	0.59
6	3	1	4	32.5	1.32	18	0.71
6	6	1	7	32.5	1.32	18	0.71
12†	6	1	7	32.5	1.32	15	0.59
12	6	1	4	32.5	1.32	18	0.71
24§	6	1	8	32.5	1.32	18	0.71

* Purchase Tax see note below.

† MCC cap. ‡ For S.B.C. cap (B15d/17) Id. extra § S.B.C. No extra.

STOP, TAIL LIGHTS

Standard Cap :—S.B.C. (B15d/17)

Filament :—" V "

Volts	Watts	List Price *		Dimensions			
				Length		Diameter	
				m/m	in.	m/m	in.
6a	3 & 18	3	6	46	1.81	25	0.98
12b	24	3	10				
12	6 & 24	3	6				

* Purchase Tax see note below.

(a) With SBC cap with off-set pins 3d. extra.

(b) With SCC cap 3/9 List Price.

INDICATOR LAMPS

Standard Cap :—M.E.S. (E10/13)

Volts	Watts	List Price *		Dimensions			
				Length		Diameter	
				m/m	in.	m/m	in.
6	3	1	3	27.5±1.5	1.08	15	0.59
6	3	1	3	23 ±1	0.91	11	0.43
8	1.6	2	3	27.5±1.5	1.08	15	0.59
12	2.2	1	3	27.5±1.5	1.08	15	0.59
12	2.2	1	3	23 ±1	0.91	11	0.43
16	3	2	3	27.5±1.5	1.08	15	0.59
24	2.8	2	0	27.5±1.5	1.08	15	0.59

* Purchase Tax see note below.

With MCC (B9s/14) cap 3d. extra.

FESTOON TRAFFICATOR LAMPS

Double Capped

Volts	Watts	List Price *		Dimensions			
				Length		Diameter	
				m/m	in.	m/m	in.
6	3	2	3	35.5	1.39	7.5±0.5	0.30
6	6	2	7	38	1.50	11 ±0.5	0.43
12	3	2	3	35.5	1.39	7.5±0.5	0.30
12	6	2	7	38	1.50	11 ±0.5	0.43
24	6	2	6	38	1.50	11 ±0.5	0.43

* Purchase Tax see note below.

BUS INTERIOR LAMPS (Pearl)

Standard Caps :—B.C. (B22/21×26) or S.B.C. (B15d/17)

Filaments :—" V " or Bow

Volts	Watts	List Price *		Dimensions			
				Length		Diameter	
				m/m	in.	m/m	in.
12	12	2	4	55 (B.C.)	2.17	38	1.50
24	12	2	9	56 (S.B.C.)	2.20	38	1.50
24	20	2	9	68	2.68	50	1.97

* Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the extension of page 53.

Illustrations—Top ; Stop, Tail. Right Centre ; Side, Tail, Dash. Left Centre ; Indicator. Bottom ; Festoon.

CYCLE DYNAMO LAMPS

Headlights

Cap :—M.E.S. (E10/13) Round Bulb

Volts	Amps.	List Price* each Clear s. d.	Diameter m/m
4†	0.45	1 4	18
6	0.3	9	15
6†	0.3	1 4	18
6	0.45	9	15
6	0.5	9	15
6†	0.5	1 4	18
8	0.15	1 4	18
8	0.45	1 4	15
8	0.5	1 4	15
10	0.4	1 4	15
10	0.45	1 4	15
12	0.23	1 4	18

*Purchase Tax see note below.

† S.C.C. Cap (B15s/17)

Tail Lights

Cap :—M.E.S. (E10/13) Round Bulb

Volts	Amps.	List Price* each Clear s. d.	Diameter m/m
1.5	0.15	9	15 or 11
2.5	0.25	9	15 or 11
3.5	0.15	9	15 or 11
4.0	0.04	9	15 or 11
6.0	0.04	9	15 or 11
6.0	0.3	9	15
8.0	0.05	1 4	15
10.0	0.05	1 4	15

FLASHLIGHT LAMPS (British and American Types)

Standard Cap :—M.E.S. (E10/20×23)

BRITISH				
Volts	Amps.	List Price		Diameter m/m
		Without Purchase Tax	Purchase Tax	
1.5	0.11	8d.	1½d.	15
2	0.3	8d.	1½d.	11
2	0.6	8d.	1½d.	15
2.5	0.1	6d.	1½d.	11
2.5	0.2	4½d.	1d.	11
2.5	0.3	4½d.	1d.	11
3.5	0.15	4½d.	1d.	11
3.5	0.3	4½d.	1d.	11
4	0.3	4½d.	1d.	11
4.5	0.3	4½d.	1d.	15
6.2	0.3	6d.	1½d.	15

AMERICAN				
Volts	Amps.	List Price		Diameter m/m
		Without Purchase Tax	Purchase Tax	
2.2	0.15	9d.	2d.	Lens End
2.2	0.25	9d.	2d.	Lens End
2.5	0.15	4½d.	1d.	11
2.5	0.3	4½d.	1d.	11
3.8	0.3	4½d.	1d.	11
4	0.3	4½d.	1d.	11
4.5	0.3	4½d.	1d.	11
5	0.15	6½d.	1½d.	15
6	0.5	6½d.	1½d.	15
6.2	0.3	6½d.	1½d.	15

RADIO PANEL LAMPS

Standard Cap :—M.E.S. (E10/13) §

Volts	Amps.	List Price* each s. d.	Length m/m	Diam. m/m	Volts	Amps.	List Price* each s. d.	Length m/m	Diam. m/m
ROUND									
5	0.15	1 0	24	11	6.2	0.3	6†	29	15
6	0.04	1 0	24	11	6.3	0.64	1 0	29	15
6	0.06	1 0	24	11	6.5	0.3	6	24	11
					10	0.2	1 6	—	18
TUBULAR									
4	0.3	1 0	30	10	6.5	0.3	7½	30	10
6.2	0.3	7½†	30	10	19	0.09	2 2†	30	10
6.3	0.15	7½†	30	10	19	0.97	2 2	30	10
					20	0.1	2 2	30	10

*Purchase Tax see note below.

† Objective Life 10 hours.

‡ Black dot on end of bulb.

§ For M.C.C. Cap, 1d. each extra.

VACUUM POLICE LAMPS

Volts	Amps.	List Price* s. d.	Cap	Approximate Dimensions			
				Length		Diameter	
				m/m	in.	m/m	in.
2	0.75	2 6	Wootton B9.5s/11	28	1.09	18	0.71
2	0.75	2 6	M.E.S. (E10/13)	27.5	1.08	15	0.59

*Purchase Tax must be added to the prices in these columns. For the exact amount of purchase tax to be added see TABLE B on the extension of page 53.

CYCLE FLASHLIGHT RADIO PANEL & POLICE LAMPS



Illustrations { Top Cycle Head
Centre Cycle Tail
Bottom Flashlight

MINER'S CAP & HANDLAMP BULBS

Single and
Double Filament
Vacuum, Argon
& Krypton Filled



CAP AND HANDLAMP BULBS

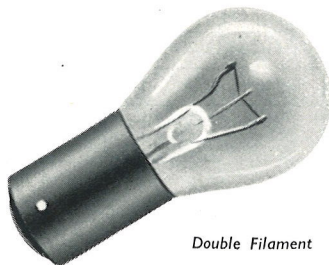
For use in :—	Rating		List Price Each		Diameter		Length		MFP Categ'ry	Cap
	Volts	Amps.	Clear s. d.	Pearl s. d.	m/m	in.	m/m	in.		
VACUUM—SINGLE FILAMENT										
Cap	2.0	0.85	2 7	—	26	1.02	44c	1.73	2	E 14
„	2.5	0.5	2 7	—	18	0.71	31	1.22	2	E 10
„	2.5	1.0	2 7	—	25	0.98	46.5d	1.82	2	953
ARGON—SINGLE FILAMENT										
Cap	2.5	1.0	2 7	—	25	0.98	46.5d	1.82	2	953
Hand	2.5a	1.5	—	2 6	25	0.98	52	2.05	1(B)	E 14
„	2.5a	1.5	—	2 6	25	0.98	49	1.93	1(B)	953
„	2.5a	1.75	—	2 6	25	0.98	49	1.93	1(B)	953
Cap	4.0	0.55	2 7	—	18	0.71	31	1.22	2	E 10
„	4.0	0.65	2 7	—	18	0.71	31	1.22	2	E 10
Hand	4.0a	0.75	—	2 6	26	1.02	44c	1.73	1(B)	E 14
„	4.0a	0.75	—	2 6	26	1.02	47bc	1.85	1(B)	Peg
Cap	4.0	0.8	2 7	—	18	0.71	31	1.22	2	E 10
Hand	4.0a	1.0	—	2 6	28	1.10	51	1.22	1(B)	E 14
ARGON—DOUBLE FILAMENT										
Cap	2.5	1.0 & 0.75	2 9	—	25	0.98	49	1.93	2	B 15d/21
„	4.0	0.55 & 0.55	2 9	—	25	0.98	49	1.93	1(B)	B 15d/21
„	4.0	0.8 & 0.8	2 9	—	25	0.98	49	1.93	2	B 15d/21
KRYPTON—SINGLE FILAMENT										
Hand	2.5a	1.5	—	3 0	18	0.71	43.5	1.69	1(B)	953
„	2.5a	1.5	—	3 0	18	0.71	45.5	1.80	1(B)	E 14
„	2.5a	1.75	—	3 0	18	0.71	43.5	1.69	3/1	953
„	2.5a	1.75	—	3 0	18	0.71	45.5	1.80	1(B)	E 14
Cap	3.6	1.0	3 0	—	18	0.71	31	1.22	3/1	E 10
„	4.0	0.55	3 3	—	18	0.71	31	1.22	2	E 10
Hand	4.0a	0.75	—	3 0	18	0.71	45.5	1.80	1(B)	E 14
„	4.0a	0.75	—	3 0	18	0.71	47b	1.85	1(B)	Peg
Cap	4.0	0.8	3 3	—	18	0.71	31	1.22	2	E 10
Hand	4.0a	1.0	—	3 0	18	0.71	45.5	1.80	1(B)	E 14
„	4.0a	1.0	—	3 0	18	0.71	43.5	1.69	3/1	953
Cap	4.0	1.0	3 0	—	18	0.71	31	1.22	3/1	E 10
„	4.0	0.8	3 0	—	18	0.71	31	1.22	3/1	E 10

(a) Supplied with fuse in the cap (b) With Pip (c) Squat Bulb (d) Round Bulb.

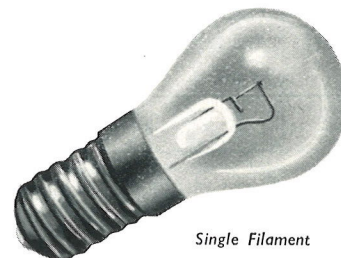
2.5 v.
0.5 amp.

E 14 = E 14/23 × 15 = S.E.S. E 10 = E 10/13 = M.E.S. 953 = Special S.C.C. B 15d/21 = S.B.C.

All the Miners' Lamps listed on this page are approved by the Mines Department and are exempt from Purchase Tax



Double Filament



Single Filament

AIRCRAFT LAMPS

Watts	Volts	List Price*		Cap	Filament	Type and Finish	Approximate Dimensions					
							Length		Diameter		L.C.L.	
							m/m	in.	m/m	in.	m/m	in.
LANDING												
240	12	26	6A	P28/25	Twin Pillar	Clear G.F.	95	3.74	60	2.36	44.5	1.75
240	26	26	6A	P28/25	Tr. C.C.	Clear G.F.	95	3.74	60	2.36	44.5	1.75
350	26	30	0A	P40/41	Tr. C.C.	Clear G.F.	120	4.72	75	2.95	43	1.69
INSTRUMENT or INDICATOR LAMPS												
1-2	12	2	2C	End piece and Clips	—	Clear Vac.	38	1.50	6.5	0.26	—	—
2-4	24	2	2C			Clear Vac.	38	1.50	6.5	0.26	—	—
6	12	2	7B	S8-5/8	Axial	Clear Vac.	38	1.50	11	0.43	—	—
6	24	3	0B			Clear Vac.	38	1.50	11	0.43	—	—
2-36	6-5	6B	E10/13	Tra. Bow or "V"	Clear Vac.	23	0.91	11	0.43	—	—	
2-2	12	1			6B	Clear Vac.	27.5	1.08	12	0.47	—	—
2-8	24	2	3B	Bow or "V"	Vac.	27.5	1.08	15	0.59	—	—	
WARNING LAMPS												
0-24	3	1	0B	E10/13	Tra. Bow or "V"	Clear Vac.	23	0.91	11	0.43	—	—
0-24	6	1	0B			Vac.	23	0.91	11	0.43	—	—
COCKPIT												
7	12	3	0B	B15d/17	Bow or "V"	Clear G.F.	32.5	1.28	18	0.71	17.5	0.69
2-2	12	1	8B	E10/13	Bow or "V"	Varnished Red Vac.	27.5	1.08	12	0.47	—	—
2-8	24	2	6B	E10/13	Bow or "V"		27.5	1.08	15	0.59	—	—
GENERAL SERVICE LAMPS												
6	12	1	5B	B15d/17	Bow or "V"	Clear G.F. Vac.	32.5	1.28	18	0.71	—	—
6	24	2	3B				32.5	1.28	18	0.71	—	—
CABIN LAMPS												
12	12	2	4B	B15d/17	Bow or "V"	Clear G.F.	56	2.20	38	1.50	—	—
12	24	2	9B	B15d/17	Bow or "V"	Clear G.F.	56	2.20	38	1.50	—	—
NAVIGATION, HEAD, TAIL, and SIDE												
10	12	3	6B	B15d/17	Single T Coil	Clear G.F.	46	1.81	25	0.98	30	1.18
10	24	4	6B	B15d/17	Special	Clear Vac. or G.F.	46	1.81	25	0.98	30	1.18
20	12	4	0B	B15d/17	Trans.	Clear G.F.	57	2.24	38	1.50	33	1.30
20	24	4	6B	B15d/17	Trans.	Clear G.F.	57	2.24	38	1.50	33	1.30
IDENTIFICATION DOWNWARDS												
30	12	5	0B	B15d/17	Special Special	Internally Frosted G.F.	58	2.28	27	1.06	38	1.50
80	24	7	6B				B15d/17	58	2.28	38	1.50	38
TAXYING												
36	12	3	1B	B15d/17	"V"	Clear G.F.	56	2.20	38	1.50	28.5	1.12
60	24	6	0B				Ax. C.C. or "V"	Clear G.F.	56	2.20	38	1.50

*Purchase Tax must be added to the prices in this column. The exact amount of Purchase Tax to be added to the list prices with the suffixes "A" and "B" will be found in TABLES A and B respectively on the extension of page 53. Purchase Tax equal to 25% must be added to list prices with the suffix "C."

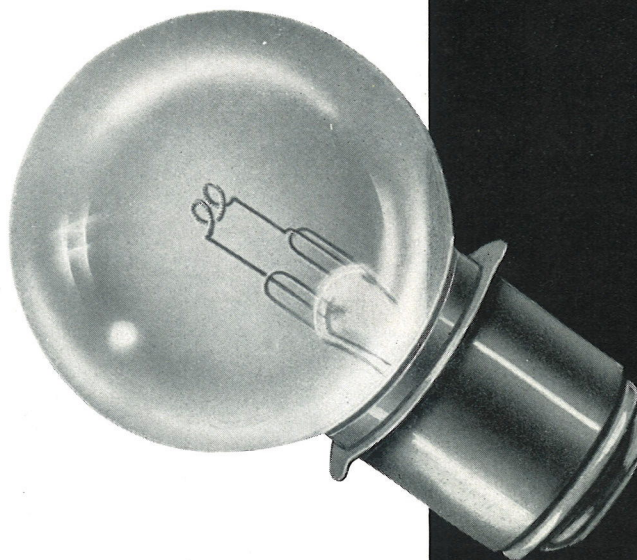


Identification Lamp



Cabin Lamp

Landing Lamp



AIRCRAFT LAMPS

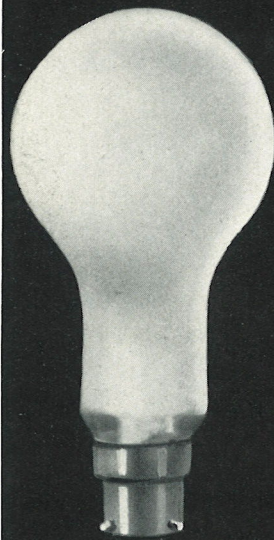
General Service
Instrument
Warning
Cockpit
Cabin
Navigation
Identification
Taxying
Landing



ELECTRIC DISCHARGE MERCURY VAPOUR LAMPS

Type MA/V
and MB/V

*for Streetlighting
Floodlighting
Industrial Lighting etc*



MERCURY VAPOUR (Purchase Tax not chargeable)

Watts	A.C. Voltages	List Price s. d.	Cap§	Approximate Dimensions m/m†		
				Length	Diameter	L.C.L.‡
TYPE MB/V				Round Bulb		
80	} 200/210, 220/230, 240/250 {	35 0	} 3-pin B.C. (B22/31 x 30) {	160	80	113
125		40 0		178	90	128
TYPE MA/V				Tubular Bulb		
250	} 100, 110, 120, 130, 200/210, 220/230, 240, 250 {	48 0	} G.E.S. (E40/45) {	290	51	170
400		52 6		330	51	190

§ Cap Illustrations will be found on pages 44 and 45.

† Lamp Outlines are shown on pages 42 and 43.

‡ Light Output of these lamps is given on page 46.

IMPORTANT NOTE.—Mazda Electric Discharge Lamps are made to operate only with lamp auxiliary gear manufactured or approved by The British Thomson-Houston Co., Ltd. See pages 48 and 49.

MERCURY VAPOUR LAMPS

These lamps find their principal applications in streetlighting, floodlighting, and industrial lighting.

The lamp consists of two 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 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 capacitor connected across the mains for power-factor correction.

80 w. Type MB/V



400 w. Type MA/V

MERCURY VAPOUR FLUORESCENT (Purchase Tax not chargeable)

Watts	A.C. Voltages	List Price s. d.	Cap§	Approximate Dimensions m/m†			
				Length	Overall Diam.	Neck Diam.	L.C.L.‡
			TYPE MBF/V	Round Bulb			
80	200/210, 220/230, 240/250	43 0	3-pin B.C. (B22/31 × 30)	178	110	50	123
125		52 6	G.E.S. (E40/45)	233	130	52	167
			TYPE MAF/V	Iso-thermal Bulb			
400	200/210, 220/230, 240/250	72 6	G.E.S. (E40/45)	335	165	50	—

§ Cap Illustrations will be found on pages 44 and 45.

† Lamp Outlines are shown on pages 42 and 43.

‡ Light Output of these lamps is given on page 46.

IMPORTANT NOTE.—Mazda Electric Discharge Lamps are made to operate only with lamp auxiliary gear manufactured or approved by The British Thomson-Houston Co., Ltd. See pages 48 and 49.

MERCURY VAPOUR FLUORESCENT LAMPS

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. This mercury vapour lamp with fluorescent bulb has been developed to meet requirements where some degree of colour rendering is important.

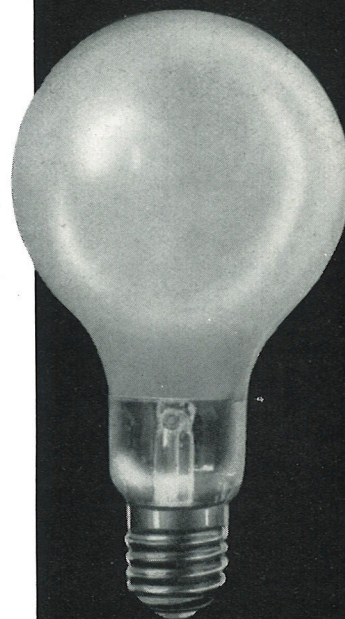
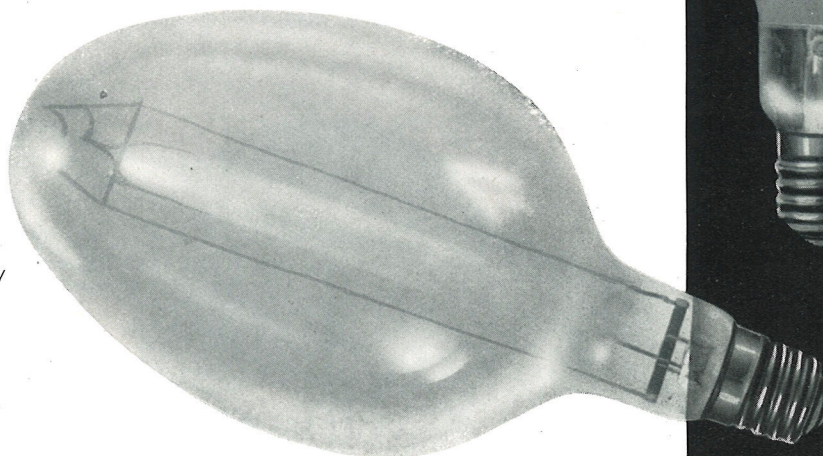
The mercury vapour discharge tube is mounted in an enlarged outer jacket, the inner surface of which is coated with powder which fluoresces under ultra-violet radiation from the inner lamp. This fluorescent radiation provides colour correction, by adding red light.

The electrical characteristics of these lamps are similar to the standard Mazda mercury vapour lamps in that they require to be operated with a standard choke and, where necessary, a capacitor for power factor correction.

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 vapour light.

125 w. Type MBF

400 w. Type MAF/V



ELECTRIC
DISCHARGE
MERCURY
VAPOUR
(FLUORESCENT)
LAMPS

Type MAF/V
and MBF/V

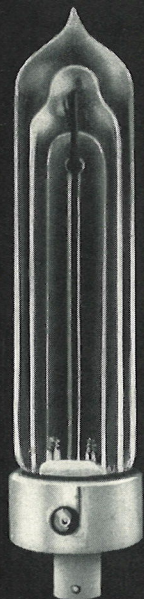
for Streetlighting
Floodlighting
Industrial Lighting etc



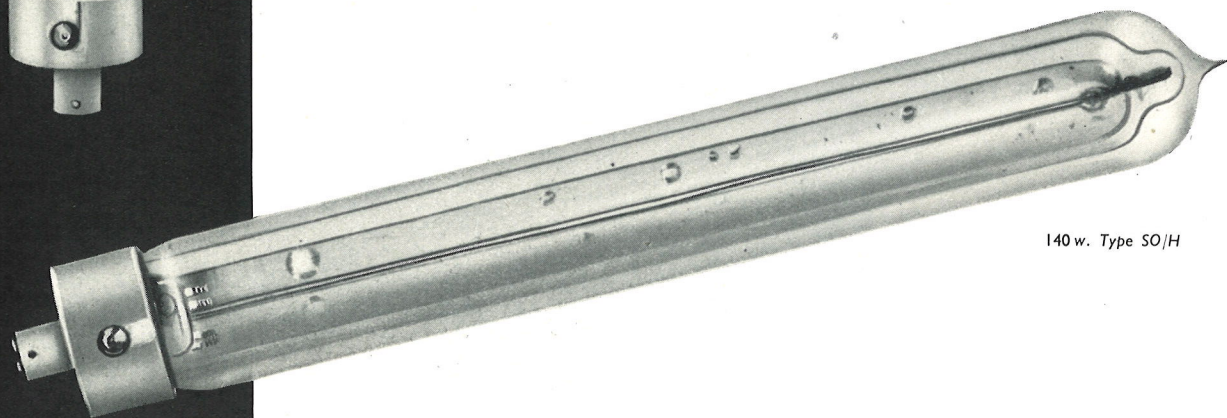
ELECTRIC DISCHARGE SODIUM VAPOUR LAMPS

Type SO/H

for Streetlighting etc



45 w. Type SO/H



140 w. Type SO/H

SODIUM VAPOUR (Purchase Tax not chargeable)

List Price		Cap B.C. Ceramic	Approx. Dimensions m/m†		
			Length	Diam.	L.C.L.‡
Sodium Vapour Lamp	Without Jacket	With Clear Detachable Jacket	B22/S	300	50
	s.	d.			
	45	6			
	60	6			
Sodium Vapour Lamp	Without Jacket	With Clear Detachable Jacket	B22/M	518	65
	s.	d.			
	85	0			
	140	0			

PRICE INCREASE To be affixed to Descriptive List 9518-I, Ed. A or page 40 of Mazda Lamp Catalogue L 868.

List Price	
Without Jacket	With Clear Detachable Jacket
s. d.	s. d.
40 6	57 0
50 6	68 6
60 0	82 0
71 0	95 6

1st July, 1951

† Lamp Outlines are shown on pages 42 and 43.

‡ Light Output of these lamps is given on page 46.

NOTE.—Lamps should normally be used in a HORIZONTAL position, but the 45 and 60 watt sizes will operate in any position between vertical (cap up) and horizontal.

SODIUM VAPOUR LAMPS

Sodium Vapour Electric Discharge Lamps are primarily designed for street-lighting or floodlighting and they have found application in the industrial field for the illumination of yards and other open spaces.

The lamp consists of two separate components, an inner arc tube bent into a U shape and fitted with a Bayonet Ceramic cap, and an outer envelope which is a double-walled vacuum flask. When it is necessary therefore to make a lamp replacement, as a rule only the arc tube need be replaced.

For a Sodium Vapour Electric Discharge Lamp to operate efficiently a steady voltage must be applied to it, and for this purpose transformers with tapped primary windings to cover the normal voltage range are supplied. See pages 48 and 49.

The orange-yellow light given by the sodium vapour lamp is monochromatic. The lamp gives a single line spectrum, as distinct from the continuous spectrum of the tungsten lamp and the multi-line spectrum of mercury vapour discharge lamps.

ULTRA VIOLET Type MBW/U (Purchase Tax not chargeable)

Watts	A.C. Volts	List Price s. d.	Cap	Approximate Dimensions			
				Overall Length		Diameter	
				m/m	in.	m/m	in.
125	{ 200/210 220/230 240/250 }	63 0	3-pin B.C. (B22/31 × 30)	178	7.00	90	3.54

COMPACT SOURCE Type ME/D (Purchase Tax not chargeable)

Watts	A.C. or D.C. Volts	Description	List Price s. d.	Cap	Dimensions m/m		
					Overall Length	Diameter	L.C.L.
250	{ 200/250 }	Box Type	350 0	3-pin	130 ± 3†	{ 64 wide 55 deep }	80
250		Glass Envelope	250 0	3-pin	130 ± 3†	{ 50 ± 2 }	80 ± 0.5
250		Glass Envelope	250 0	Prefocus (P40/41)	156 ± 3		65 ± 0.5

† Excluding Pins.

ULTRA-VIOLET LAMP

This special lamp has been developed as a highly efficient source of near ultra-violet radiation with a minimum of visible light. The near ultra-violet radiation, lying just beyond the violet end of the visible spectrum, does not cause sunburning, but has power to excite fluorescence and phosphorescence in many substances and this makes it very effective in special displays. In addition, where identification is almost impossible in visible light, substances may often be easily identified by means of such fluorescence. Stains on fabrics often become strikingly evident under this radiation and it is also possible to distinguish between apparently similar materials such as natural and artificial gems.

As with other electric discharge lamps, the U.V. lamp is designed to operate only with lamp auxiliary gear manufactured or approved by BTH.

COMPACT SOURCE LAMP

The Type ME high-pressure mercury vapour lamp consists of a quartz bulb containing two tungsten electrodes, between which an arc of high brightness burns steadily. The quartz bulb is mounted in a rectangular metal box having a glass window in the front, through which the light emerges. The contact pins on the bottom of the box fit a standard 5 amp., 3-pin socket.

Where this lamp can be operated in a separate protective housing two variants, in clear-glass outer envelopes, are also available. One lamp is fitted with a 3-pin base, similar to that fitted to the Box type lamp and the other is fitted with a Prefocus base.

The small concentrated source burns steadily with a high brightness in the region of 20,000 candles per sq.cm. The radiation has a high actinic value and the lamp operates with little deterioration of light output throughout its long life. The lamp, which should always be operated vertically base downwards, is suitable for a number of applications :—

In optical instruments such as projection microscopes for visual examination, gear profile projectors, and similar instruments.

In projection microscopes for micro-photography.

In film printers.

In lantern slide or film projectors for monochrome film. (It is not recommended for use with colour films.)

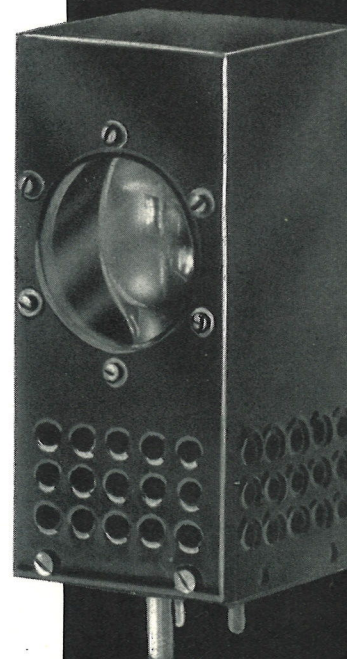
As a light source for examining polished metal or glass surfaces.



ELECTRIC DISCHARGE LAMPS

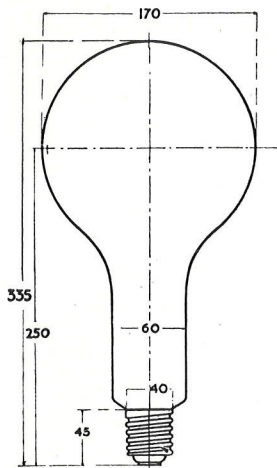
Mercury Vapour
with Ultra-Violet
Filter Bulb
Type MBW/V

Compact Source
Type ME/D

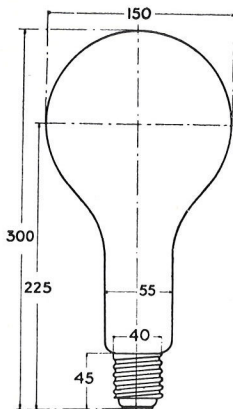


LAMP OUTLINES

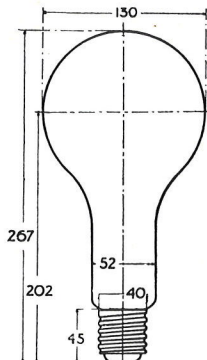
Dimensions in Millimetres



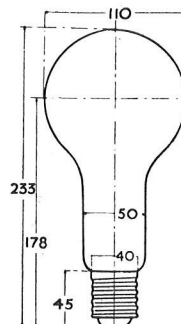
1,500 w. G.E.S. Cap.
G.F. Clear



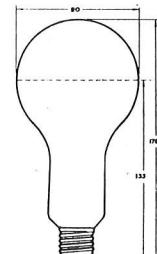
1,000 & 750 w. G.E.S. Cap.
G.F. Clear



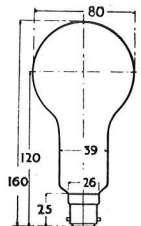
500 w. G.E.S. Cap.
G.F. Clear



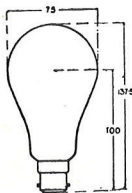
300 w. G.E.S. Cap.
G.F. Clear



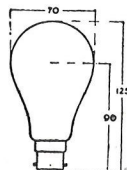
200 w. E.S. Cap.
G.F. Clear



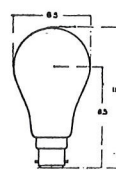
150 w. B.C. Cap.
G.F. Clear



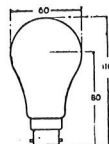
100 w. B.C. Cap.
Pearl, G.F. Clear,
and Coiled-Coil



75 w. B.C. Cap.
Pearl, Clear, and
Coiled-Coil



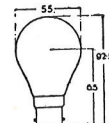
60 w. B.C. Cap.
Pearl, G.F. Clear,
G.F. Traction,
and Coiled-Coil



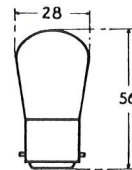
40 w. B.C. Cap.
Pearl, G.F. Clear,
G.F. Traction,
and Coiled-Coil



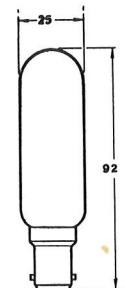
25 w. B.C. Cap.
Pearl, G.F. Clear,
Vac. Clear



15 w. B.C. Cap.
Pearl, Vac.
Clear

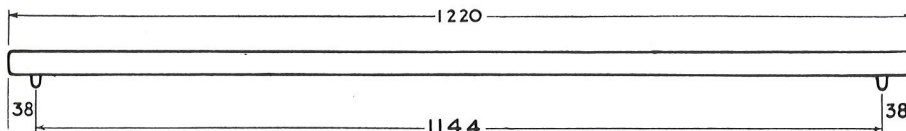


15 w. B.C. Cap.
Pygmy Sign Bulb

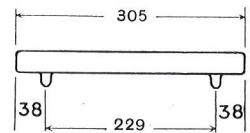


25 w. S.B.C.
Single Ended
Tubular

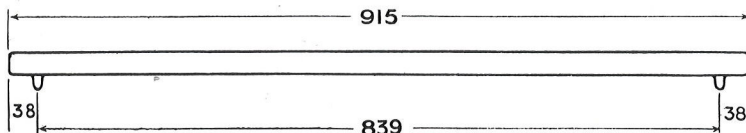
Illustrations approximately one-sixth full size.



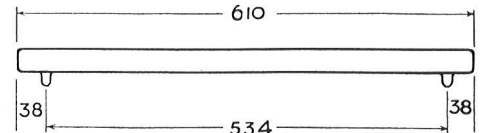
150 w. Straight Light Tube



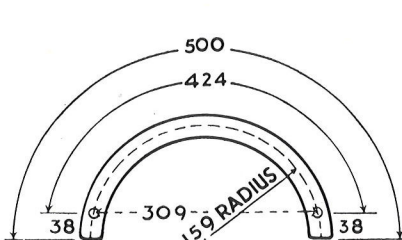
35 w. Straight Light Tube



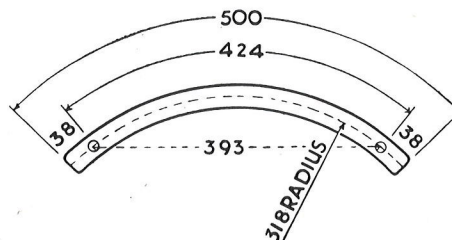
110 w. Straight Light Tube



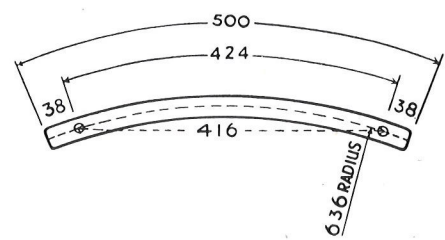
75 w. Straight Light Tube



60 w. $\frac{1}{2}$ Circle Light Tube



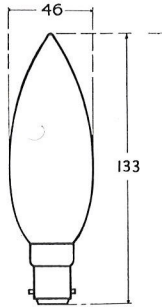
60 w. $\frac{1}{4}$ Circle Light Tube



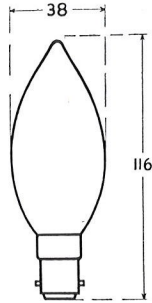
60 w. $\frac{1}{8}$ Circle Light Tube

LAMP OUTLINES

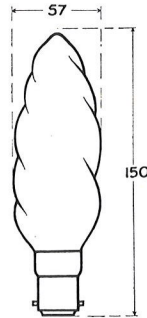
Dimensions in Millimetres



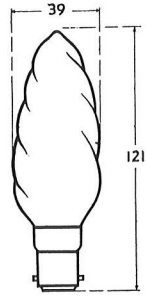
40 w. S.B.C. Cap.
Plain Candle



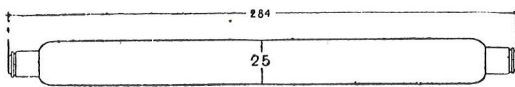
25 w. S.B.C. Cap.
Plain Candle



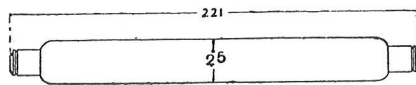
40 w. S.B.C. Cap.
Twisted Candle



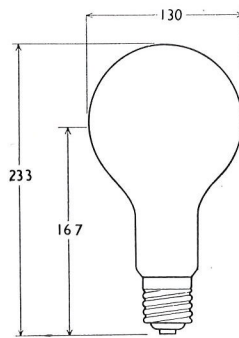
25 w. S.B.C. Cap.
Twisted Candle



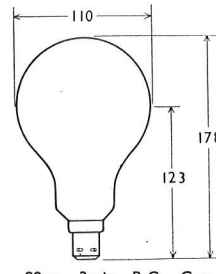
30 and 60 w. C.C. Cap. Double Ended Tubular



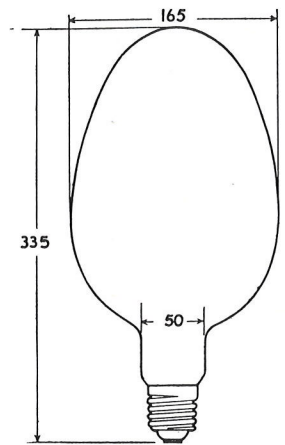
30 w. C.C. Cap. Double Ended Tubular



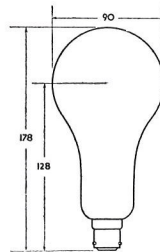
125 w. G.E.S. Cap.
Mercury Vapour with
Fluorescent Bulb
(MBF/V)



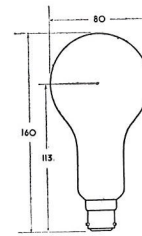
80 w. 3-pin B.C. Cap.
Mercury Vapour with
Fluorescent Bulb
(MBF/V)



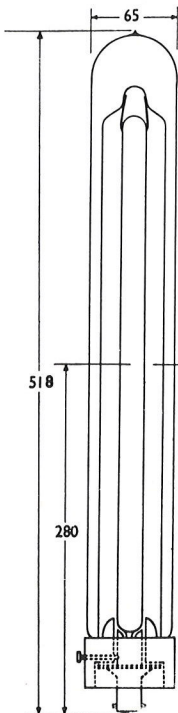
400 w. G.E.S. Cap.
Mercury Vapour with
Fluorescent
Iso-thermal Bulb
(MAF/V)



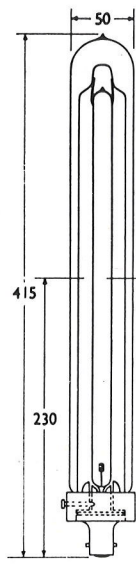
125 w.
3-pin B.C. Cap. Mercury
Vapour (MB/V) and Mer-
cury Vapour with Ultra-
Violet Filter Bulb



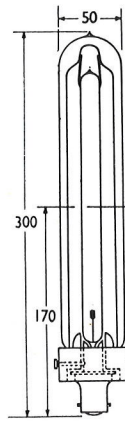
80 w.
3-pin B.C. Cap.
Mercury Vapour
(MB/V)



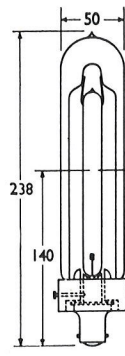
140 w. B.C.
Ceramic Cap.
Sodium Vapour
(SO/H)



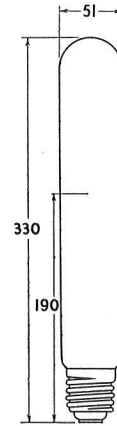
85 w. B.C.
Ceramic Cap
Sodium Vapour
(SO/H)



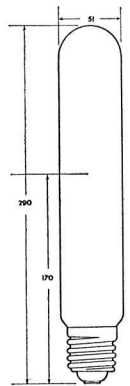
60 w. B.C.
Ceramic Cap
Sodium Vapour
(SO/H)



45 w. B.C.
Ceramic Cap
Sodium Vapour
(SO/H)



400 w.
G.E.S. Cap
Mercury Vapour
(MA/V)



250 w.
G.E.S. Cap
Mercury Vapour
(MA/V)

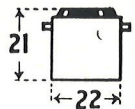
LAMP CAPS

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

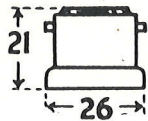
BAYONET CAPS Double Contact (B.C.)



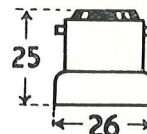
Plan of barrel of Caps



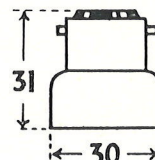
No. B 22/21



No. B 22/21 x 26



No. B 22/25 x 26

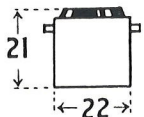


No. B22/31 x 30

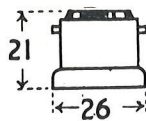
Centre Contact (C.C.)



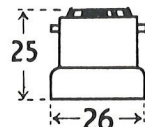
Plan of barrel of Caps



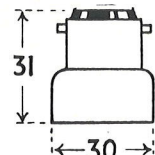
No. B 22s/21



No. B 22s/21 x 26



No. B 22s/25 x 26



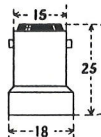
No. B 22s/31 x 30

SMALL BAYONET CAPS

Double Contact (S.B.C.)



No. B 15/25 x 18



Centre Contact (S.C.C.)



No. B 15s/17



No. B 15d/17

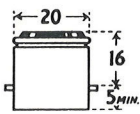


BOSCH CAPS

Double Contact



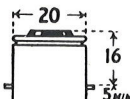
No. BA 20d



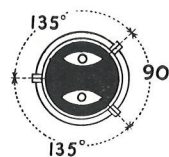
Centre Contact



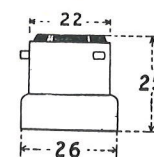
No. BA 20s



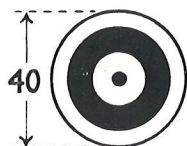
THREE PIN BAYONET CAP



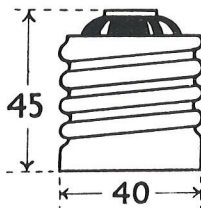
No. B 22/25 x 26 (3-pin)



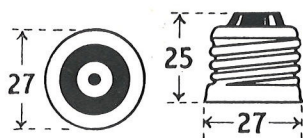
EDISON SCREW CAPS Goliath (G.E.S.)



No. E 40/45



Standard (E.S.)



No. E 27/25

Miniature (M.E.S.)

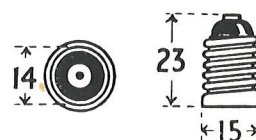


No. E 10/13

MINERS' HANDLAMP CAPS



No. S 11s/23



No. E 14/23 x 15

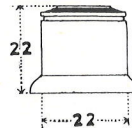
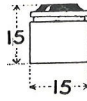
LAMP CAPS (contd.)

CAPS FOR DOUBLE-ENDED TUBULAR LAMPS

Centre Contacts



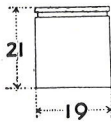
No. S 15s



No. S 22s



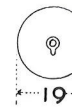
No. S 19s



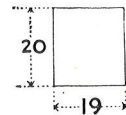
Clip Contacts



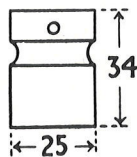
No. S 15



No. S 19



HOLLOW TUBULAR CAP



THREE PIN CENTRE CONTACT CAP (3-pin C.C.)



No. B 21s (3-pin)



FESTOON LAMP CAPS

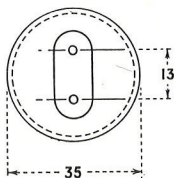


No. S 7/8

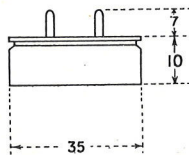


No. S 8-5/8

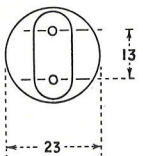
MEDIUM BI-PIN 35



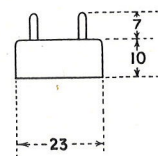
(G2-4 x 13/35 x 10)



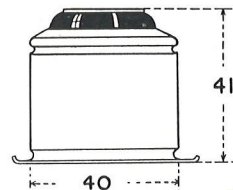
MEDIUM BI-PIN 23



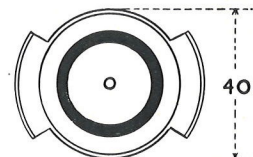
(G2-4 x 13/23 x 10)



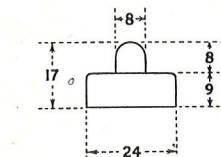
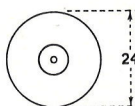
PRE-FOCUS CAPS



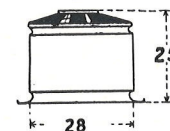
No. P 40/41



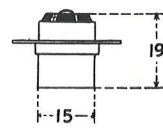
RAISED CONTACT



S 24s/17



No. P 28/25



No. P 15/19



LAMP EFFICIENCIES

TUNGSTEN LAMPS

Listed on pages 8 & 9

Lamp Watts	Voltage Range and Approximate Initial Total Lumens Output				
	200-260	100-130	60-75	35-55	25
15	120	140	—	145	155
25	220	240	260	275	290
40	*415	470	490	515	540
60	*700	790	810	835	870
75	*920	1060	—	—	—
100	*1340	1500	1400	1480	—
150	2090	2130	2240	2370	—
200	2880	2960	3250	3340	—
300	4690	4770	5220	5300	—
500	8410	8700	9200	9550	—
750	13500	15150	14300	14400	—
1000	18900	19300	—	—	—
1500	30100	30300	—	—	—

* Coiled Coil

FLUORESCENT LAMPS

(MCF/U) Listed on pages 10 & 11

Lamp Watts	Voltage Range and Approximate Initial Total Lumens Output†		
	Daylight	Warm-White	Natural
15	—	510	465
20	—	760	680
30	—	1380	1260
40 (2 ft.)	—	1320	1200
40 (4 ft.)	2000	2000	1800
80	3600	3600	3280
50	—	—	2550
70	—	—	3570
75	—	—	3450
125	—	—	5750

† After 100 hours burning.

PHOTOGRAPHIC LAMPS

Listed on page 18

Lamp Watts	Voltage	Initial Light Output Lumens
PHOTO FLOOD		
275	100/110, 200/210	9350
500	100/110	17000
1000	220/230, 240/250	17500
	110	33000
PHOTO PEARL		
500	100/130, 200/260	11250

SODIUM VAPOUR LAMPS

Listed on page 40

Lamp Watts	Voltage	Initial Light Output Lumens
45	190/250	2700
60		4200
85		6460
140		10640

MERCURY VAPOUR LAMPS

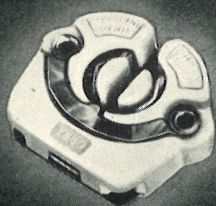
Lamp Watts	Voltage	Initial Light Output Lumens
TYPE MA/V (Listed on page 38)		
250	100/130	8500
	200/250	8750
400	100/130	16000
	200/250	16800
TYPE MAF/V (Listed on page 39)		
400	200/250	15200

Lamp Watts	Voltage	Initial Light Output Lumens
TYPE MB/V (Listed on page 38)		
80 125	200/250	2880 5125
TYPE MBF/V (Listed on page 39)		
80 125	200/250	3040 5250

MAZDA LAMPHOLDERS

Cat. No.	Description
C 69119 *	G.E.S. Unskirted
C 69120 *	G.E.S. Skirted
C 70553	B.C. Skirted
C 70554	E.S. Skirted
C 70801	3 slot B.C. Skirted
C 76551	B.C. Rubber Sleeve
C 77593 †	Med. Bi-pin Standard
C 77894 ‡	Med. Bi-pin Standard
C 77969	Med. Bi-pin Rubber Sleeve
C 78679	Med. Bi-pin Compact
C 79205	Med. Bi-pin Push-on Adaptor
F 2010	B.C. with Anti Flicker Shield
M 252	For ME/D Lamp
T 385	Bi-post
T 956	Mogul Prefocus
T 957	P 12 Medium Prefocus
TS 121	G.E.S. Unskirted
TS 125	G.E.S. Skirted

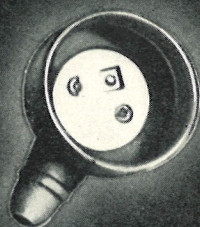
* BTH Patent. † Black. ‡ White.



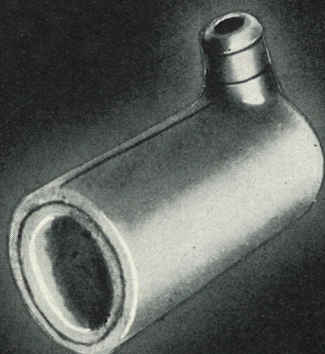
C78679



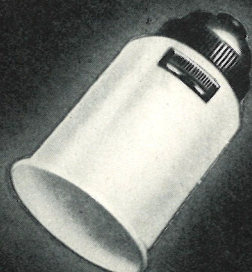
C77593



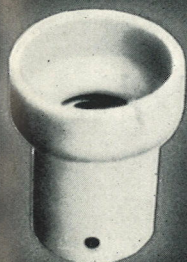
C77969



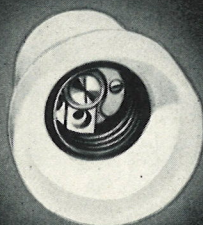
C76551



F2010



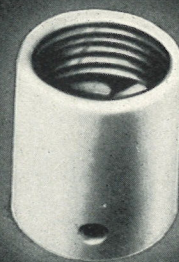
C69120



C69119



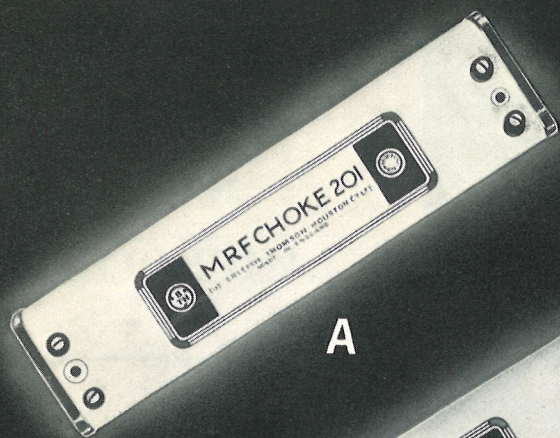
T385



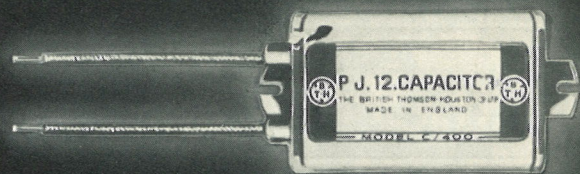
M252



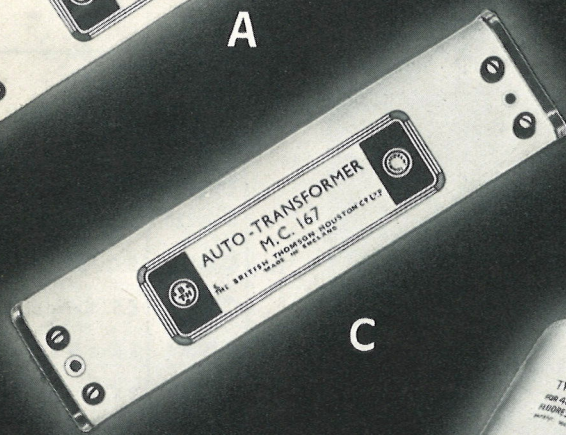
The Outshining Light



A



B



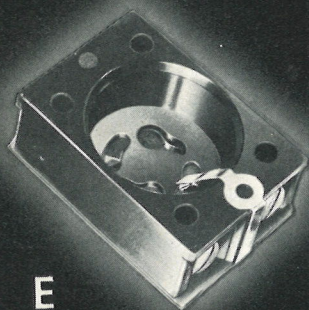
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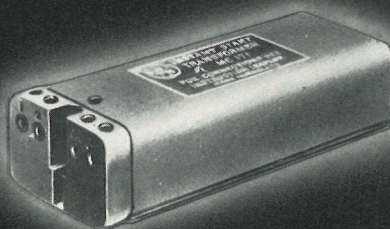
D



F



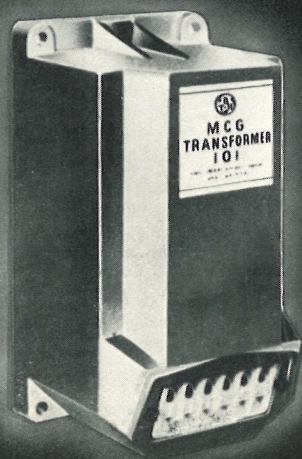
E



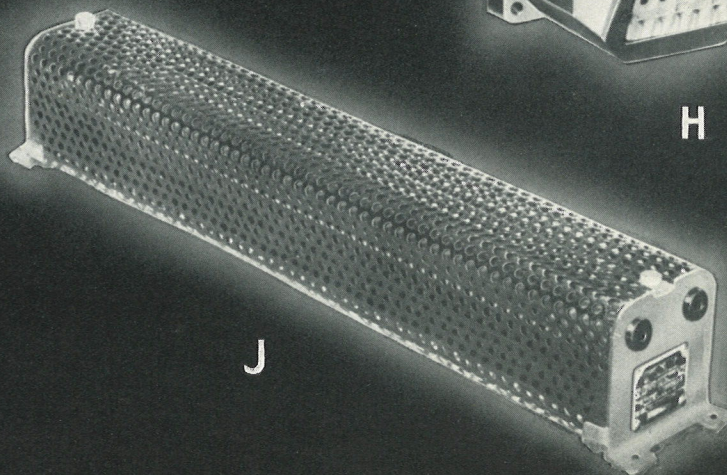
G



H



I



J

MAZDA LAMP AUXILIARY GEAR

(For illustrations see opposite page)

Mazda Fluorescent, Mercury Vapour, and Sodium Vapour Lamps are made to operate only with lamp auxiliary gear manufactured or approved by The British Thomson-Houston Company, Ltd.

(A) CHOKES

for use with fluorescent lamps (pages 10 and 11)

Catalogue No.	Single Lamp		Two Lamps in Series	
	Lamp Watts	Voltage A.C. 50 Cycles	Lamp Watts	Voltage A.C. 50 Cycles
MRF 101	80	200/210	40 (2 ft.)	200
MRF 102	80	220/230	40 (2 ft.)	210/220
MRF 103	80	240/250	40 (2 ft.)	230/240
MRF 110	80	250	40 (2 ft.)	250
MRF 201	40 (4 ft.)	200/210	20	200/210
MRF 202	40 (4 ft.)	220/230	20	220/230
MRF 203	40 (4 ft.)	240/250	20	240/250
MRF 204	30	200/210	15	200/210
MRF 205	30	220/230	15	220/230
MRF 206	30	240/250	15	240/250
MRF 207	20 15	200/210		
MRF 208	20 15	220/230		
MRF 209	20 15	240/250		
MRF 210	15	105/110		
MRF 211	15	115/120		
MRF 212	20	105/110		
MRF 213	20	115/120		
MRF 214	40 (2 ft.)	105/110		

(B) CAPACITORS

for use with fluorescent lamps (pages 10 and 11)

Cat. No.	Capacitance	Max. Working Voltage	Lamp Watts	
			Single	Double
PJ 11	7.5 mfd.	260	80	40 (4 ft.) 40 (2 ft.) 30
PJ 12	3.25 mfd.	260	40 (4 ft.) 30	15
PJ 13	4.5 mfd.	260	20 15	—
PJ 51	7.0 mfd.	400	—	80

(C) TRANSFORMERS

for use with fluorescent lamps (pages 10 and 11) on low voltage supplies

Catalogue No.	A.C. 50 Cycles Input Voltage	Lamp Watts
MC 167	110/115	80
MC 168	110/115	40 (4 ft.) 30

(D) STARTERS

for use with fluorescent lamps (pages 10 and 11)

Catalogue No.	Supply Voltage	Lamp Watts
ST 800	200/250 A.C.	80
ST 800 D.C.	200/250 D.C.	80
ST 400	200/250 A.C.	40 (4 ft.)
ST 400 D.C.	200/250 D.C.	40 (4 ft.)
ST 401	200/250 A.C.	40 (2 ft.)
ST 300	200/250 A.C.	30
ST 300 D.C.	200/250 D.C.	30
ST 201	105/120 A.C.	20
ST 201 D.C.	200/250 A.C.	15
	200/250 D.C.	15 & 20

(E) STARTER SOCKET

for use with fluorescent lamps (pages 10 and 11)

Catalogue No. C 77592

(F) CUBIC CAPACITORS

for use with electric discharge lamps

Catalogue No.	Capacitance
C 77608	8 mfd.
C 77080	13 mfd.
C 77081	15 mfd.
C 77077	20 mfd.
C 77082	25 mfd.
C 77083	30 mfd.
C 77084	40 mfd.
C 77088	60 mfd.
C 77091	80 mfd.
C 77093	100 mfd.
C 77094	120 mfd.

(G) TRANSFORMERS

for use with Instant Start fluorescent lamps (pages 10 and 11)

Special Transformers Cat. Nos. MC 171, MC 174 and MC 176 can be supplied for use with Instant Start Fluorescent Lamps.

(H) CHOKES

for use with mercury vapour lamps (pages 38, 39 & 41*)

Catalogue No.	A.C. 50 Cycles Supply Voltages	Lamp Watts
MRG 501	190/230	400 MA
MRG 502	215/255	400 MA
MRG 503	190/230	250 MA
MRG 504	215/255	250 MA
MRG 505	190/230	125 MB
MRG 506	215/255	125 MB
MRG 507	190/230	80 MB
MRG 508	215/255	80 MB
MRG 509	100/120	400 MA
MRG 510	100/120	250 MA

*Special Choke Cat. No. MRA 246 must be used with 250 watt ME/D lamp.

(I) TRANSFORMERS

for use with sodium vapour lamps (page 40)

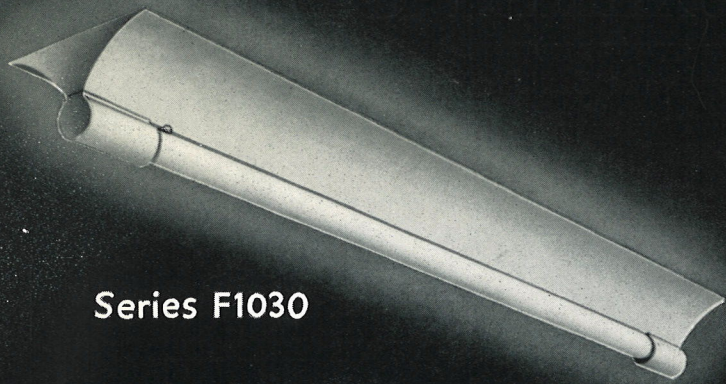
Catalogue No.	A.C. 50 Cycles Supply Voltages	Lamp Watts
MCG 101	190/220	140
MCG 102	220/250	140
MCG 103	190/220	45/60/85
MCG 104	220/250	45/60/85

(J) RESISTORS

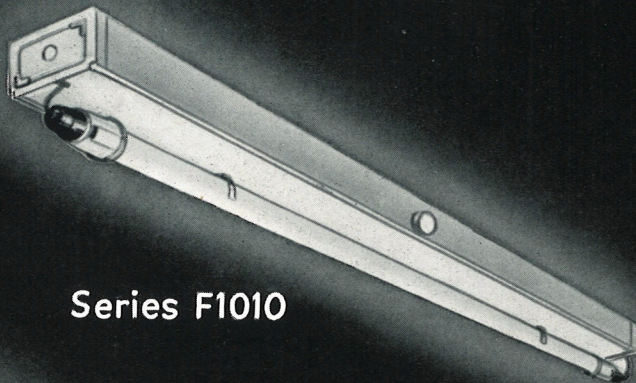
for use with fluorescent lamps (pages 10 and 11) on D.C. supplies†

Catalogue No.	Lamp Watts		D.C. Supply Voltage	Lamp Watts Single	D.C. Supply Voltage
	Single	Double			
F 861	80	—	200/210	—	—
F 862	80	—	220/230	—	—
F 863	80	—	240/250	—	—
F 864	40 (4 ft.)	20	200	—	—
F 865	40 (4 ft.)	20	210	—	—
F 866	40 (4 ft.)	20	220	30	200
F 867	40 (4 ft.)	20	230	30	210
F 868	40 (4 ft.)	20	240	30	220
F 869	40 (4 ft.)	20	250	30	230

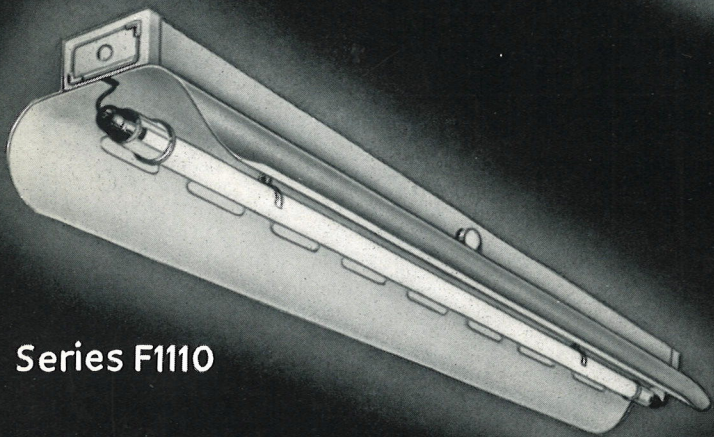
† A reversing switch Cat. No. E 1951 can also be supplied for use with Fluorescent Lamps on D.C. supplies.



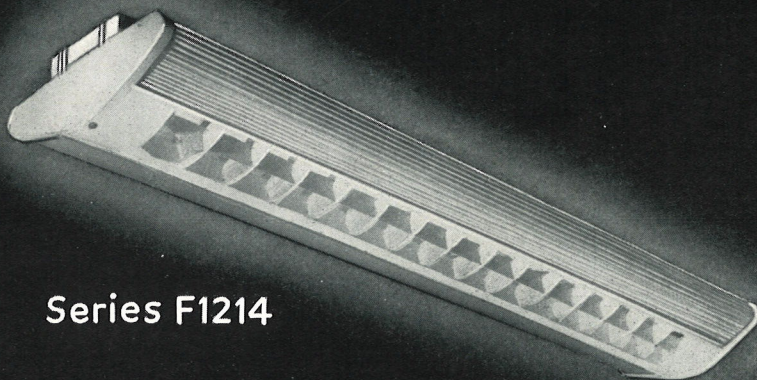
Series F1030



Series F1010



Series F1110



Series F1214

MAZDA REFLECTORS and FITTINGS

for use with
Fluorescent Lamps

The fittings illustrated on this page are selected from the complete range of Mazda Fluorescent Fittings designed for every type of Industrial, Commercial, and Decorative Lighting.

The BTH Company are also leaders in the design of special decorative and functional fittings to cater for individual tastes or particular requirements not fully covered by the standard range, and BTH Engineers, with their wide experience, will always be pleased to give expert advice on any lighting problem.



The Outshining Light

MAZDA REFLECTORS and FITTINGS

*for use with
Tungsten and
Mercury Vapour Lamps*

The fittings on this page represent only a small fraction of the complete range of Mazda Equipment for interior lighting and industrial baking and drying.

- A. Dispersive Reflector
- B. Concentrating Reflector
- C. 45° Angle Reflector
- D. Elliptical Angle Reflector
- E. Vertical Elliptical Reflector
- F. Glassteel Diffuser
- G. Deep Cut-off Fitting
- H. Deep Cut-off Reflector
- I. Bulkhead Fitting
- J. Infra-Red Busbar

Full particulars from any BTH office.



The Outshining Light

MAZDA STREETLIGHTING LANTERNS and FLOODLIGHTS

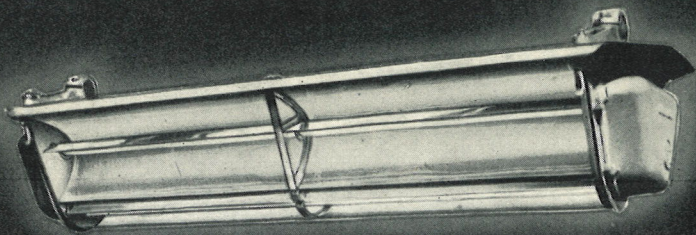
The Lanterns and Floodlights illustrated on this page are selected from the comprehensive range of Mazda Fittings designed to meet every outdoor lighting requirement.

- A. Fluorescent Lantern
- B. Horizontal Enclosed
- C. 'Stylised' Side-Entry
- D. Parish
- E. Rural (Open)
- F. Sodium (Enclosed)
- G. Area Floodlight
- H. 'Three' Floodlight

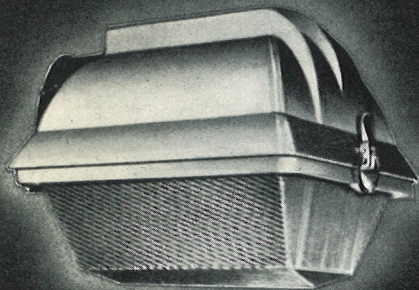
Full particulars from any BTH office.



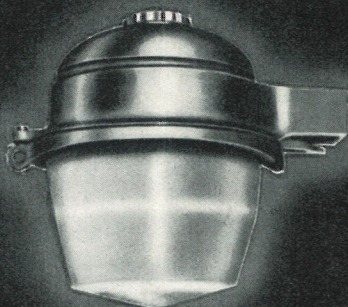
The Outshining Light



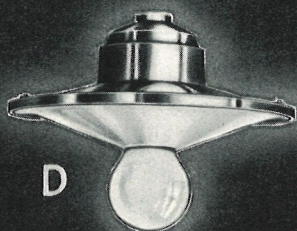
A



B



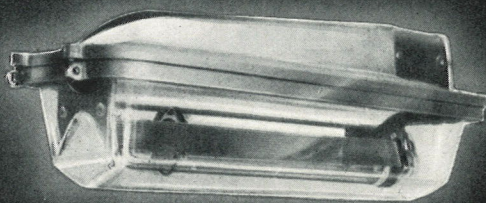
C



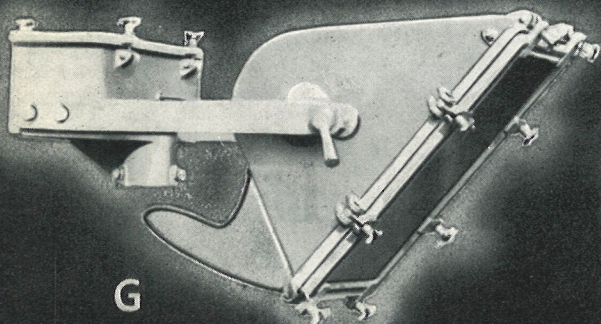
D



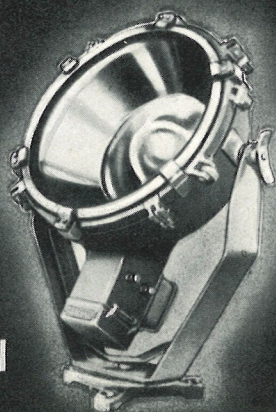
E



F



G



H

READY RECKONER

1	2	3	4	5	6	7	8	9	10	11	12	20	25	50
s. d. 1 2 3 4	s. d. 2 4 6 8	s. d. 3 6 9 0	s. d. 4 8 0 4	s. d. 5 10 3 8	s. d. 6 10 16 20	s. d. 7 12 19 24	s. d. 8 14 20 28	s. d. 9 16 23 30	s. d. 10 18 26 34	s. d. 11 10 29 38	s. d. 12 20 30 40	s. d. 18 34 50 68	s. d. 24 42 63 84	s. d. 42 84 126 168
5 6 7 8	10 10 12 14	13 16 19 20	18 20 24 28	21 26 21 34	26 30 36 40	21 36 41 48	34 40 48 54	39 46 53 60	42 50 510 68	47 56 65 74	50 60 70 80	84 100 118 134	105 126 147 168	2010 250 292 334
9 10 11 12	16 18 110 20	23 26 29 30	30 34 38 40	39 42 47 50	46 50 56 60	53 510 65 70	60 68 74 80	69 76 83 90	76 84 92 100	83 92 101 110	90 100 110 120	150 168 184 200	189 2010 2211 250	376 418 4510 500
13 14 15 16	22 24 26 28	33 36 39 40	44 48 50 54	55 510 63 68	66 70 76 80	77 82 89 94	88 94 100 108	99 106 113 120	1010 118 126 134	1111 1210 139 148	130 140 150 160	218 234 250 268	271 292 313 334	542 584 626 668
17 18 19 20	30 32 34 36	43 46 49 50	58 60 64 68	71 76 711 84	86 90 96 100	911 106 111 118	114 120 128 134	129 136 143 150	142 150 1510 168	157 166 175 184	170 180 190 200	284 300 318 334	355 376 397 418	7010 750 792 834
21 22 23 24	38 40 42 44	53 56 59 60	70 74 78 80	89 92 97 100	106 110 116 120	123 1210 135 140	140 148 154 160	159 166 173 180	176 184 192 200	193 202 211 220	210 220 230 240	350 368 384 400	439 4510 4711 500	876 918 9510 1000
25 26 27 28	46 50 56 60	69 76 83 90	90 100 110 120	113 126 139 150	136 150 166 180	159 176 193 210	180 200 220 240	203 226 249 270	226 250 276 300	249 276 303 330	270 300 330 360	450 500 550 600	563 626 689 750	1126 1250 1376 1500
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45 46 47 48	280 320 360 400	450 540 630 720	600 720 840 960	800 960 1120 1280	1000 1200 1400 1600	1200 1440 1680 1920	1400 1680 1960 2240	1600 1920 2240 2560	1800 2160 2480 2800	2000 2400 2800 3200	2200 2640 3080 3520	3200 3840 4480 5120	4000 4800 5600 6400	8000 9600 11200 12800
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53 54 55 56	440 480 520 560	720 840 960 1080	1000 1200 1400 1600	1200 1440 1680 1920	1400 1680 1960 2240	1600 1920 2240 2560	1800 2160 2480 2800	2000 2400 2800 3200	2200 2640 3080 3520	2400 2880 3360 3840	2600 3120 3640 4160	4000 4800 5600 6400	4800 5760 6640 7520	9600 11520 13440 15360
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DELIVERY CONDITIONS FOR LAMPS

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	Hull	Preston
Accrington	Colchester	Inverness	Reading
Ashford	Colwyn Bay	Ipswich	Rhyl
Aylesbury	Cork	Kendal	Rotherham
Barrow	Coventry	Lancaster	Rugby
Bath	Croydon	Leeds	Salisbury
Bedford	Darlington	Leicester	Sheffield
Belfast	Derby	Lincoln	Slough
Birkenhead	Doncaster	Liverpool	Southampton
Birmingham	Dorchester	Llandudno	Southend-on-Sea
Blackburn	Dublin	Luton	Southport
Blackpool	Dundee	Maidstone	South Shields
Bournemouth	Eastbourne	Manchester	Stockton-on-Tees
Bradford	Edinburgh	Middlesbrough	Stoke
Brighton (incl. Lewes)	Exeter	Newcastle-on-Tyne	Sunderland
Bristol	Glasgow	Newport (Mon.)	Swansea
Burnley	Gloucester	Newton Abbot	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	Watford
Cheltenham	Hastings	Pontypridd	Wolverhampton
Chester	Huddersfield	Portsmouth	Worthing

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 (excluding Purchase Tax) 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 (excluding Purchase Tax) 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 customers' 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.

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
 44 Fitzroy Road, N.W.1 - - - - - Primrose 7181-5

LIGHTING ADVISORY SERVICE

Bridle Path, Watford, Herts - - - - - Watford 7701-8

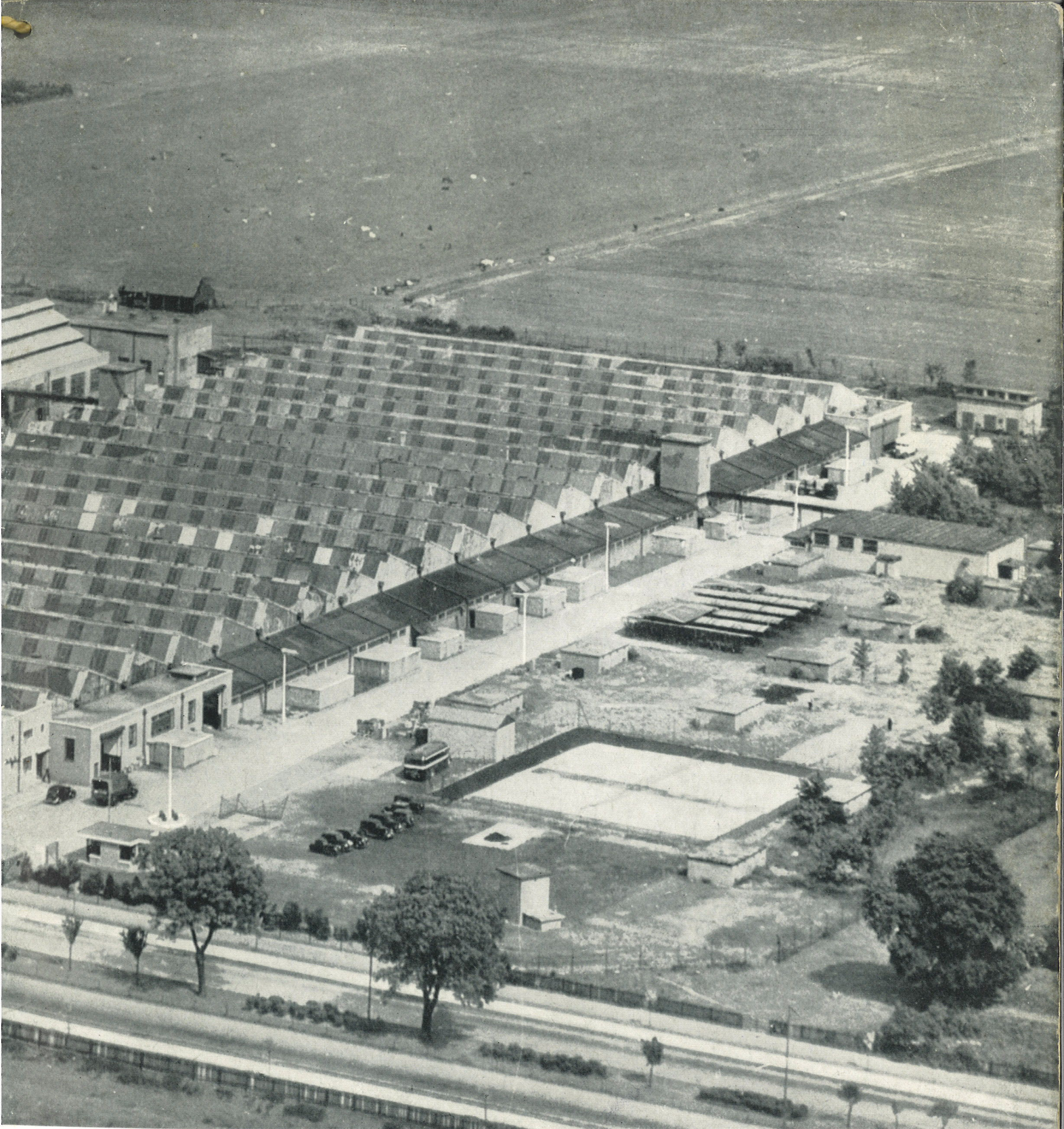
BELFAST 12 Alfred Street. Belfast 24523	HULL 2 Prince's Dock Chambers, Prince's Dock Street. Central 36241
BIRMINGHAM .. Geoffrey Buildings, John Bright Street. Midland 6335	ILFORD 23 & 25 Green Lane. Ilford 2561
BLACKBURN .. "Old Bank," Old Bank Street, King Street. Blackburn 7093	LEEDS, 1 46 Wellington Street. Leeds 31541
BLACKPOOL .. 4 & 5 Cedar Square. Blackpool 22853	LEICESTER .. 5 Campbell Street. Leicester 22811
BOURNEMOUTH 7 Haviland Road, Boscombe. Boscombe 34194	LIVERPOOL, 1 .. 27-29 Stanley Street. Central 5721
BRADFORD .. 40 Godwin Street. Bradford 21205	MANCHESTER, 3 15 Quay Street, Deansgate. Blackfriars 2691
BRISTOL, 1 .. 119 Victoria Street. Bristol 20111	MIDDLESBROUGH Post Office Buildings, Marton Road. Middlesbrough 2476
CAMBRIDGE .. Fellowship House, 133 Fitzroy Street. Cambridge 54370	NEWCASTLE-ON- TYNE, 1 Ellison Buildings, Ellison Place. Newcastle 25040
CARDIFF Jotham's Buildings, 26-27 St. Mary Street. Cardiff 7171/3	NORTHAMPTON College Street. Northampton 2981
CHELTENHAM .. 17 Grosvenor Street. Cheltenham 2776	NORWICH .. St. Michael's Chambers, St. Andrew St. Norwich 22541
CHESTER 5 Boughton. Chester 2746	NOTTINGHAM .. 71-73 Lower Parliament Street. Nottingham 2061
COLCHESTER .. Culver Street. Colchester 2843	OXFORD 90 St. Aldates. Oxford 4170
CROYDON 54 Selsdon Rd., Sth. Croydon. Croydon 5633	PLYMOUTH .. Chapel Street, Regent Street. Plymouth 61915
DUBLIN Mazda House, 25 Suffolk Street. Dublin 77379	PORTSMOUTH .. 54 St. Vincent Street. Southsea. Portsmouth 4383
DUNDEE 17 Baltic Street. Dundee 5600	READING 74 Oxford Road. Reading 2700
EDINBURGH, 2 .. 130 George Street. Edinburgh 30896	SHEFFIELD, 1 .. Mazda Buildings, Campo Lane. Sheffield 23086
EXETER Trinity Mews, Southernhay Exeter 55749	SOUTHAMPTON .. 33 Carlton Crescent. Southampton 3369
GLASGOW, C.2 .. 53 Pitt Street. Central 4331	STOKE-ON-TRENT King's Chambers, Kingsway. Stoke-on-Trent 48768
GUILDFORD .. Bedford House, Bedford Rd. Guildford 2788	SWANSEA .. 5 Northampton Gardens. Swansea 2151
HASTINGS 17 Dorset Place. Hastings 2734	TREFOREST .. Treforest Trading Estate, nr. Pontypridd. Taffs Well 165
HUDDERSFIELD 7 Brook Street. Huddersfield 3291	





THE BTH LAMP WORKS, Melton Road, LEICESTER

Main Lamp Works - - RUGBY



Other BTH Factories at :—

**BIRMINGHAM
CHESTERFIELD
COLNE
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NEWCASTLE-UNDER-LYME
PETERBOROUGH
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