

Sept 1952

METROVICK



LAMPS

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CONDITIONS OF SALE

Metrovick Lamps must be retailed at the list prices shown herein without any discount. Prices are subject to change without notice. Orders received will be taken as acceptance of these conditions, and will also be subject to the Company's standard "Conditions of Sale." **The prices in this Catalogue apply in Great Britain and Northern Ireland only, and are exclusive of Purchase Tax.**

As efforts are made constantly to improve both designs and methods of manufacture, material supplied may differ in details from the illustrations.

BRITISH MADE

Quality Control

It is often assumed that lamp manufacture is confined to mass production on machines capable of producing thousands of lamps every day. Seldom is mention made of the many types of lamps which are largely hand-assembled by skilled operatives.

Our cover illustrates a delicate operation involved in the manufacture of standard mercury discharge lamps, that of fixing the electrode in the inner tube. The tube is held in the flame of a glass-working torch until the glass is soft enough to be pierced by internal pressure and with the aid of the small rod held in the operator's right hand. Then, very carefully, she shakes down the electrode already loose in the tube, and persuades the wire lead to go through the minute hole at the end of the tube.

This task is difficult enough in itself, but it is further complicated by the fact that the softened end of the tube must not lose its neat rounded appearance, nor must the electrode become contaminated. These can only be prevented by continuous admission, by the same operator of course, of a slight pressure of purified inert gas into the tube.

There are hundreds of jobs in lamp manufacture requiring the same degree of skill and patience, with all of them **QUALITY CONTROL** ensures that the human skill of the operator does not falter, and that all the lamps reach the same high standard of uniform excellence expected of

METROVICK LAMPS

PURCHASE TAX

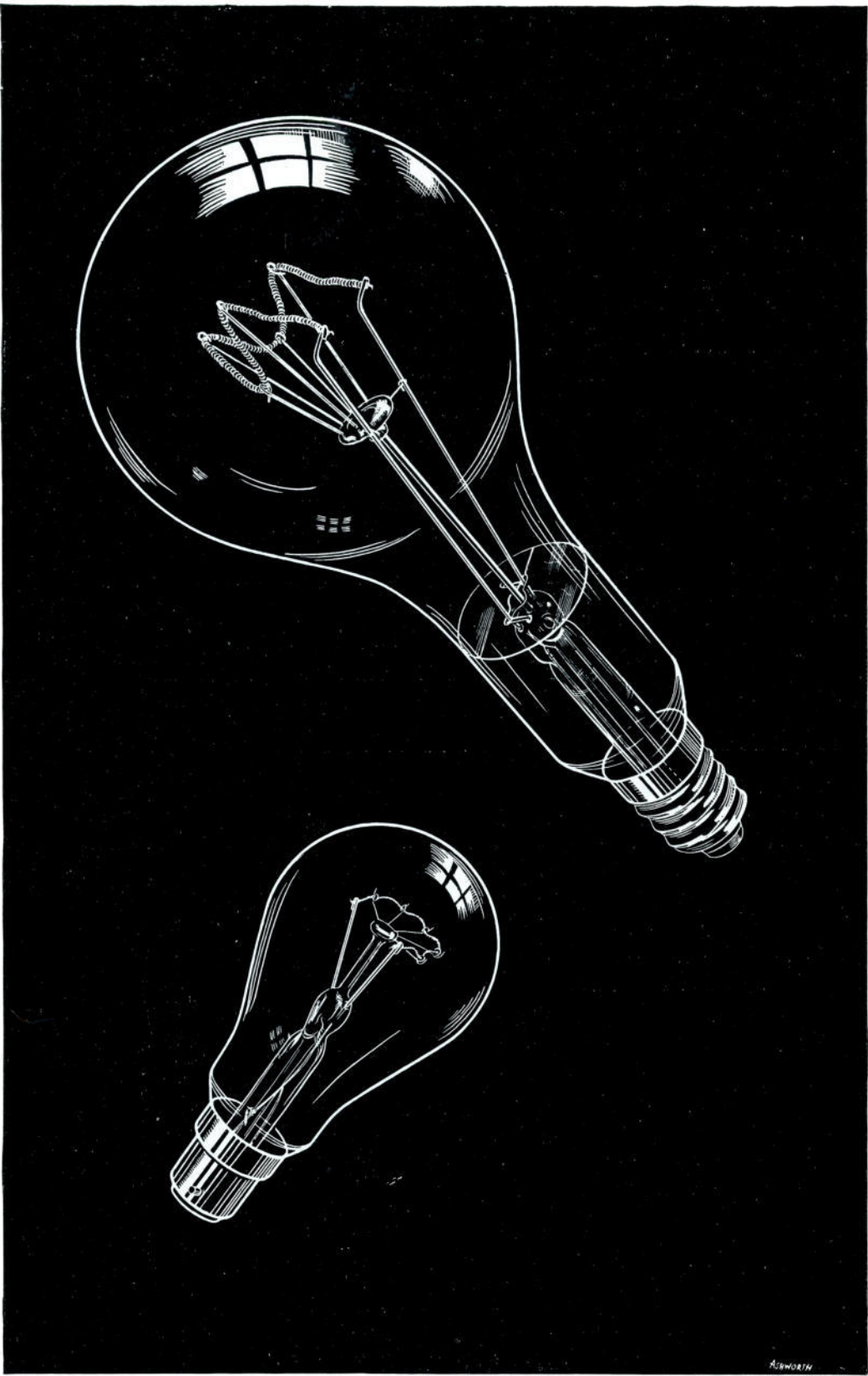
Metrovick filament lamps up to and including 250 watts and Metrovick fluorescent tubular lamps up to and including 80 watts are subject to Purchase Tax of 33 $\frac{1}{3}$ per cent of their wholesale value. At the wholesale values accepted by the Commissioners of H.M. Customs and Excise the Tax is chargeable as follows :—

Group of Lamps	Description	Percentage of list price to be charged as Tax
I	Projector lamps in Class A.I and G	Nil
	Other filament lamps up to and including 250 watts	24 $\frac{1}{4}$
	Other lamps in Group I	Nil
II & IV	Automobile lamps, Cycle Dynamo lamps	22
V	Miners' lamps approved by the Mines Dept. and marked "MFP"	Nil
	Other lamps in Group V	25
VI	Decoration lamps and sets	25
IX	Fluorescent tubular lamps up to and including 80 watts	24 $\frac{1}{4}$
	Other lamps in Group IX	Nil
X	Radio Panel lamps	22

Purchase Tax must be charged in full, the percentages being calculated on the total list value of lamps in each respective category, without any deductions, except that any fraction of a penny may be ignored in the final calculation.

Retailers, however, when selling to the Public, i.e., at list prices nett, must charge the Tax by adding fixed amounts to the list prices as follows :—

WHERE LIST PRICE IS		ADDITION TO LIST PRICE IS	WHERE LIST PRICE IS		ADDITION TO LIST PRICE IS
over	and not over		over	and not over	
GROUPS I (General Lighting Service) and IX (Discharge) LAMPS					
s. d. 0 11	s. d. 1 2	s. d. 0 3	s. d. 9 0	s. d. 10 0	s. d. 2 3
1 2	1 4	0 4	10 0	10 6	2 6
1 4	1 6	0 4 $\frac{1}{2}$	10 6	11 0	2 8
1 6	1 9	0 5	11 0	11 6	2 9
			11 6	11 9	2 10
1 9	1 10	0 5 $\frac{1}{2}$	11 9	12 3	2 11
1 10	2 0	0 6	12 3	13 0	3 1
2 0	2 6	0 7	13 0	13 6	3 3
2 6	2 9	0 8	13 6	14 0	3 4
2 9	3 0	0 9	14 0	15 0	3 6
3 0	3 6	0 10	15 0	16 0	3 9
3 6	4 2	0 11	16 0	17 6	4 3
4 2	4 5	1 0	17 6	18 6	4 6
4 5	4 8	1 1	18 6	20 0	4 9
4 8	5 2	1 2	20 0	22 0	5 3
5 2	5 5	1 3	22 0	25 0	5 10
5 5	5 9	1 4	25 0	27 6	6 3
5 9	6 0	1 6	27 6	30 0	7 3
6 0	7 0	1 7	30 0	32 6	7 10
7 0	8 0	1 10	32 6	35 0	8 5
8 0	9 0	2 0	35 0	37 6	9 1
GROUPS II (Auto), IV (Cycle Dynamo) and X (Radio Panel) LAMPS					
0 5	0 8	0 1 $\frac{1}{2}$	3 5	3 8	0 10
0 8	0 11	0 2	3 8	4 2	0 11
0 11	1 2	0 3	4 2	4 5	1 0
1 2	1 7	0 4	4 5	4 11	1 1
1 7	2 1	0 5	4 11	5 2	1 2
2 1	2 5	0 6	5 2	5 6	1 3
2 5	2 11	0 7	5 6	6 6	1 5
2 11	3 2	0 8	6 6	7 0	1 7
3 2	3 5	0 9	7 0	7 6	1 8



***General
Service
Lamps***

METROVICK

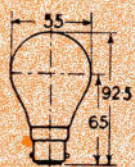
General Service Lamps listed in this catalogue comply with

200/260 Volts (10v. Steps)

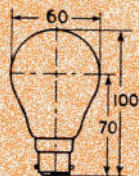
Watts	Caps	SINGLE COIL			COILED-COIL	
		Lumens (average throughout life †)	Pearl	Clear	White and Colour Sprayed	Clear and Pearl
15 25	BC BC	113 206	s. d. 1 5	s. d. 1 5	s. d. 1 7	s. d. —
40 60	BC BC	330 584	1 3	1 3	1 6	1 7
75 100 150	BC BC BC	785 1160 1970	1 8 1 9 2 6	1 8 1 9 2 6	1 11 2 1 3 3	1 10 2 0 —
200 300	ES GES	2724 4430	4 3 —	3 9 7 6	5 3 9 3	These Coiled-Coil lamps, give up to 20 per cent more light than Single Coil lamps of the same wattage.
500 750	GES GES	7930 12740	— —	10 0 16 0	12 3 —	
1000 1500	GES GES	17800 28380	— —	17 6 25 0	— —	

Standard Colours : Red, Blue, Green, Yellow, Flame, Pink, Orange and Amber (wholly only) up to 100w. White (wholly or partially) up to 500w.

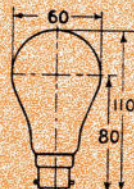
† At 230v. Pearl and Clear Single Coil.



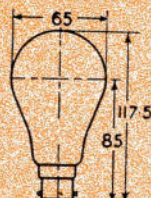
4 15w.



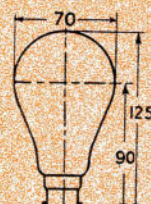
25w.



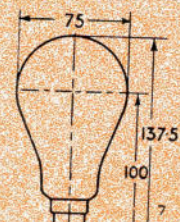
40w.



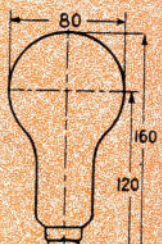
60w.



75w.



100w.



150w.

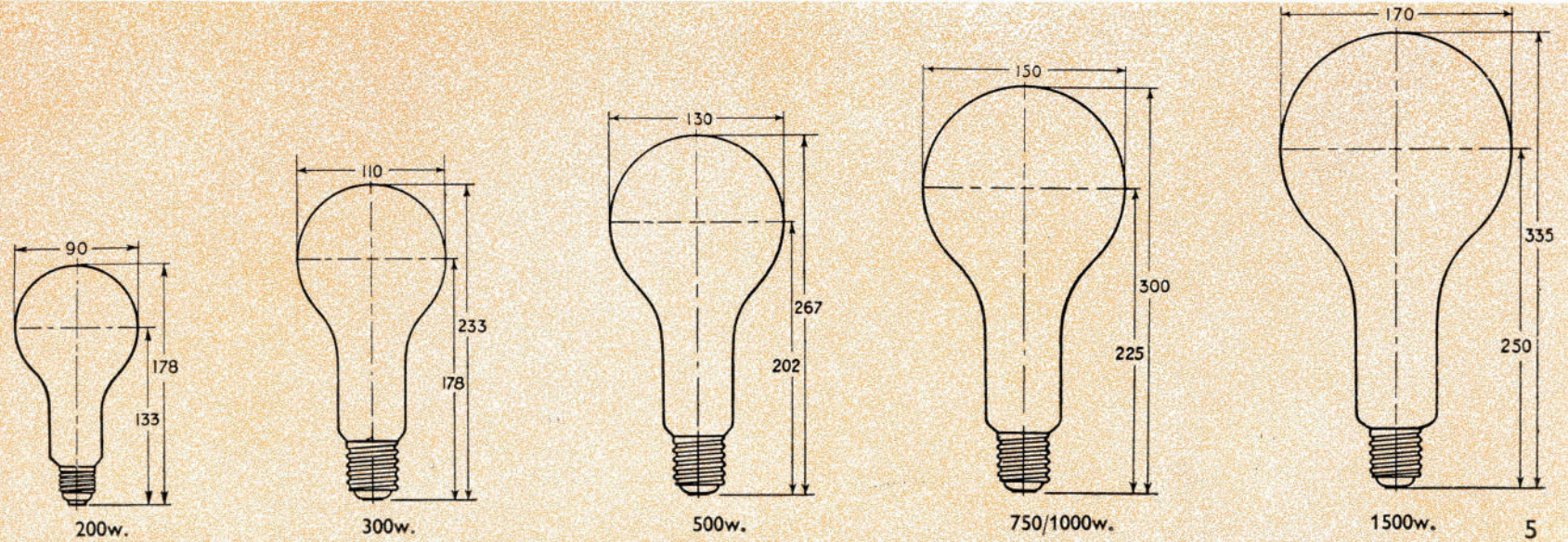
SERVICE LAMPS

the current British Standard No. 161 in so far as it applies.

25/130 Volts

Watts	Caps	PEARL		CLEAR		White and Colour Sprayed
		25, 35, 50, 55, 60, 65, 75v.	100/130v.	25†, 35, 50, 55, 60, 65, 75v.	100/130v.	100/130v.
15 25	BC BC	s. d. 1 11 1 11	s. d. 1 5 1 5	s. d. 1 11 1 11	s. d. 1 5 1 5	s. d. 1 7 1 7
40 60	BC BC	2 3 2 3	1 5 1 5	2 3 2 3	1 5 1 5	1 8 1 8
75 100 150	BC BC BC	— 4 0 —	1 10 1 11 2 8	— 4 0 6 0	1 10 1 11 2 8	2 1 2 3 3 5
200 300	ES GES	— —	4 9 —	9 0 12 0	4 3 8 0	5 9 9 9
500 750	GES GES	— —	— —	16 0 —	10 6 16 0	12 9 —
1000 1500	GES GES	— —	— —	— —	17 6 25 0	— —

Standard Colours : See footnote on page 4. † 25v. lamps are available up to 100w. only.



Watts	Caps	Approximate Dimensions		Lumens (average throughout life)	Colours available	TYPE OF START	
		Length ft.	Dia. in.			MCF/U	MCFA/U
15	Bi-pin	1½	1	380 315 420	Natural Mellow Warm White	s. d. 9 9	s. d. —
20	Bi-pin	2	1½	560 480 620	Natural Mellow Warm White	10 6	11 6
30	Bi-pin	3	1	1,080 900 1,200	Natural Mellow Warm White	11 0	12 0
40	Bi-pin	2	1½	1,040 900 1,200	Natural Mellow Warm White	11 0	12 0
40	Bi-pin	4	1½	1,500 1,200 1,800 1,800 1,200	Natural Mellow Daylight Warm White Colour Matching	11 9 11 9 11 9 11 9 11 9	12 9 12 9 12 9 12 9 12 9
80	B.C.	5	1½	2,700 2,200 3,200 3,200 2,200 —	Natural Mellow Daylight Warm White Colour Matching Red, Blue, Green, Yellow	13 0 13 0 13 0 13 0 13 0 17 6	14 0 14 0 14 0 14 0 14 0 18 6
50 or 70†	S.C.C.	8	1	50w—2100 70w—2940	Natural	30 0	—
125	B.C.	8	1½	5,000	Natural	32 6	—

† Lamp Watts determined by Auxiliary Gear.

MCF/U—switch start. **MCFA/U**—instant start external strip.

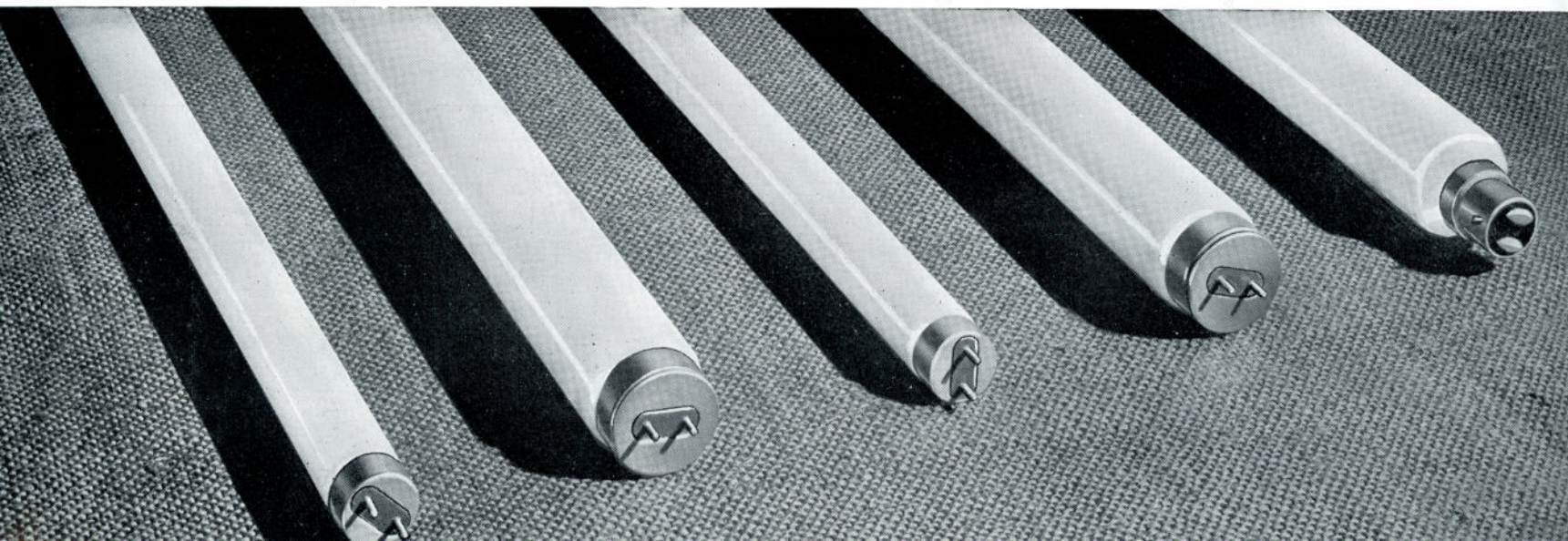
1½ ft. × 1 in.

2 ft. × 1½ in.

3 ft. × 1 in.

4 ft. × 1½ in.

5 ft. × 1½ in.

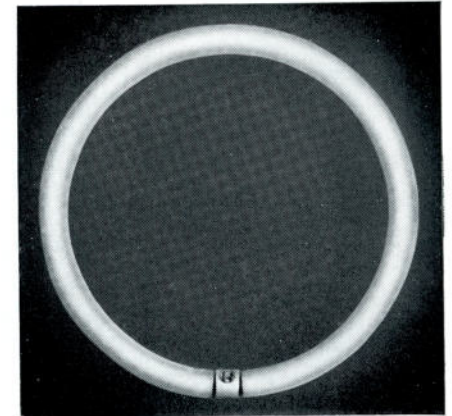


TUBULAR LAMPS



MCF/U — CIRCULAR — Mellow

Watts	Cap	Approx. Dimensions		Lumens (Average throughout life)	PRICE
		Length ft.	Dia. in.		
40	4-pin special	4 (16 in. circle)	1½	1,200	s. d. 35 0



4 ft. 1½ in. Circular

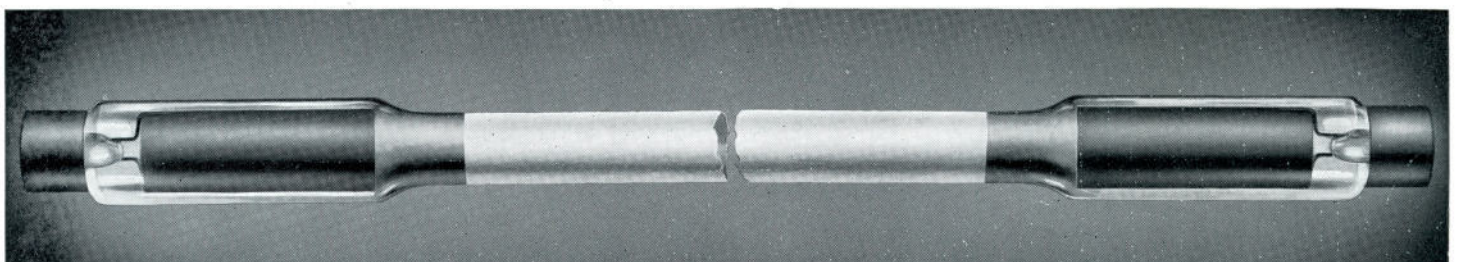
TUNGSTEN BALLAST LAMPS FOR 40w. MCFA/U LAMPS

Amps.	Caps	Type	Approx. Dimensions		Lumens	Operating Voltage	For use on mains voltage	PRICE
			Length mm.	Dia. mm.				
0.43	3-pin B.C.	Single Coil Pearl	117.5	65	520 635 685 735	115 140 151 162	200 : 210 220 : 230 240 250	s. d. 2 6

COLD CATHODE TUBES

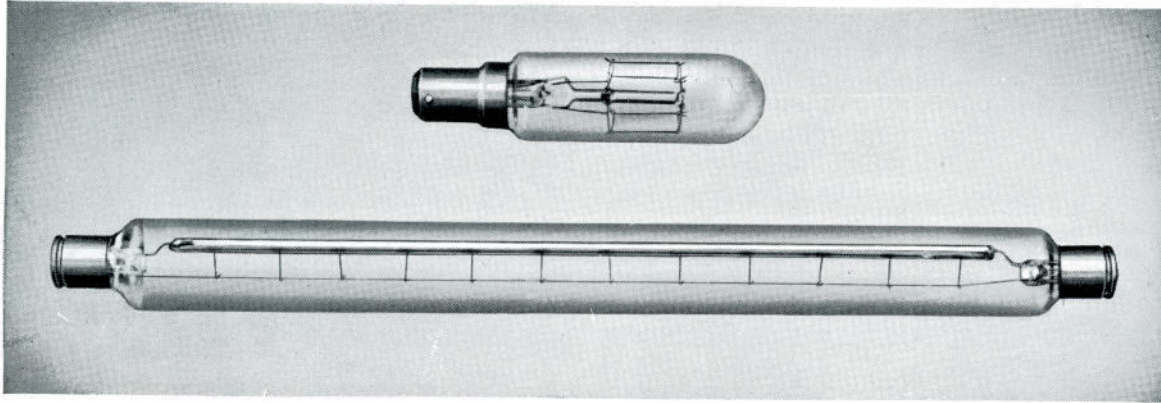
35‡ or 70	Single Contact	9 6*	mm. 20	1062 or 2125 918 or 1836 —	} Warm White Daylight Intermediate White	36 6
				—		
35‡ or 70	Single Contact	9 6*	20	—	Colour Matching	41 6
56‡	Single Contact	9 6*	20	1088	Gold (Amber)	36 6

* Visible Light Length 8ft. 6in. ‡ 35w or 56w—Lamp Current 60 mA. 70w—Lamp Current 120 mA.
Data for other colours available on application.



Cold Cathode Tube

TUBULAR, SILVERLIGHT,



Single- and
Double-Ended
Tubular

TUBULAR

ARCHITECTURAL TUBULAR ††

Watts	Caps	Type	Approximate Dimensions		PRICE		Watts	Caps	Approximate Dimensions			PRICE
			Dia. mm.	Length mm.	50, 60, 65, 75v.	110/120, 200/260v.			Length		Dia. mm.	
								in.	mm.			
10	{ B.C. S.B.C.	Morse	25	62	s. d. 4 9	s. d. 3 9*	STRAIGHT †					
25	{ B.C. S.B.C. S.E.S.	Single Cap	25	{ 86 92 95	4 9	3 9	{ 35 75 110 150	{ Peg	{ 12 24 36 48	{ 305 610 915 1220	{ 30	{ s. d. 13 6 22 6 30 0†† 35 0††
40 60	{ B.C. or E.S.	S.E. †	38	302	—	8 6	1/8, 1/4 or 1/2 CIRCLE †					
{ 30 †60 }	S.C.C.	Double Cap	25	{ 221 284	—	{ 5 9 § 6 0 §	60	Peg	20	500	30	30 0

* 110, 120v. only

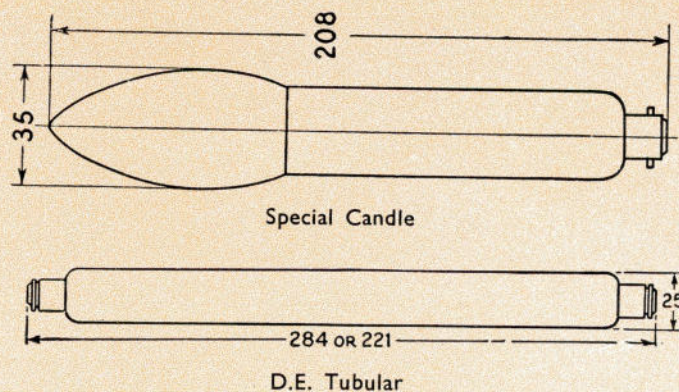
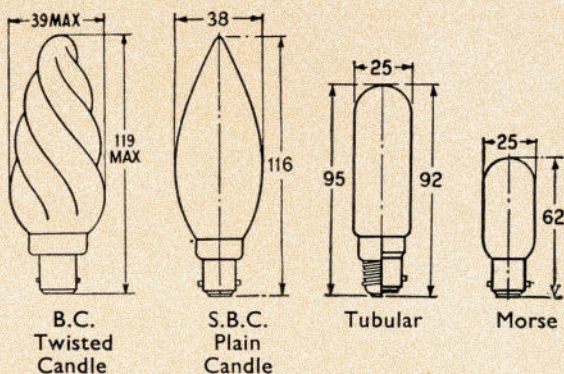
† 60w. 284 mm. only.

‡ White opal or opalised.

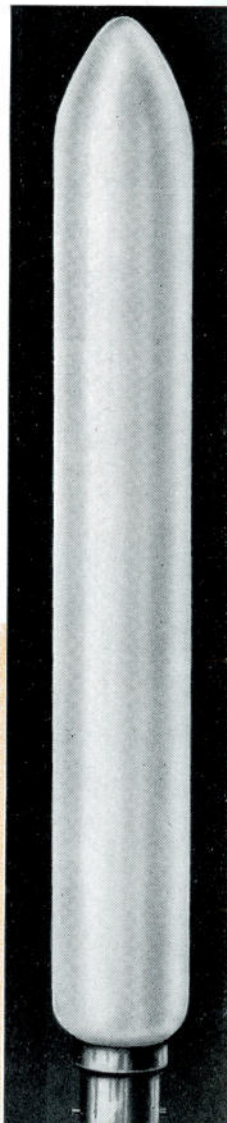
†† 200/260v. only.

§ Colour sprayed, 10 per cent extra.

‡‡ Colour sprayed, 10 per cent extra.



S.E. Opal
Tubular



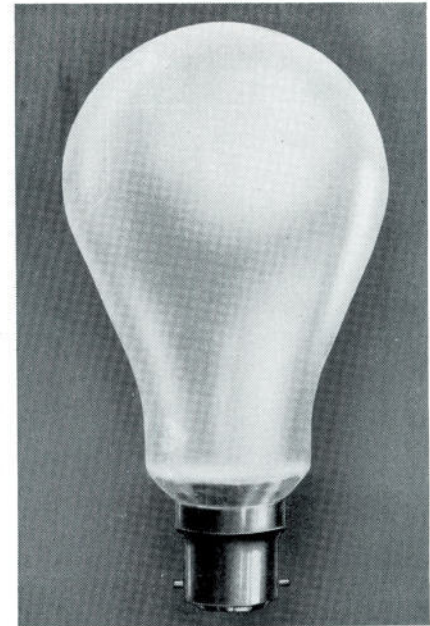
CANDLE LAMPS



SILVERLIGHT

Watts	Caps	Approx. Dimensions		Finish	PRICE 200/260v.
		Dia. mm.	Length mm.		
40 *	B.C.	60	110	Internally Silica Coated	s. d. 1 10
60 *	B.C.	65	117.5		1 10
100 *	B.C.	75	137.5		2 3
150	B.C.	80	160		3 0
200	E.S.	90	178		4 9

* Coiled-Coil Filament

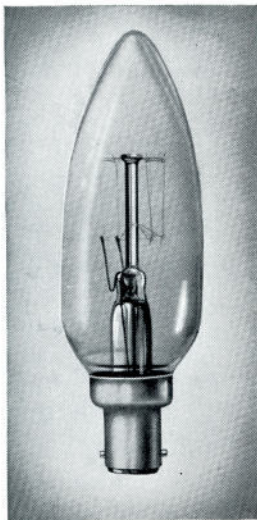


Silverlight

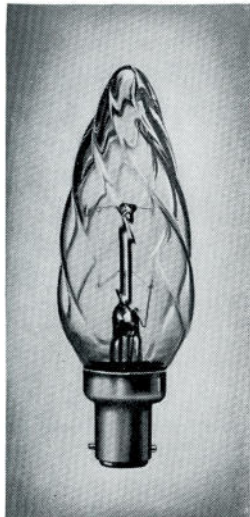
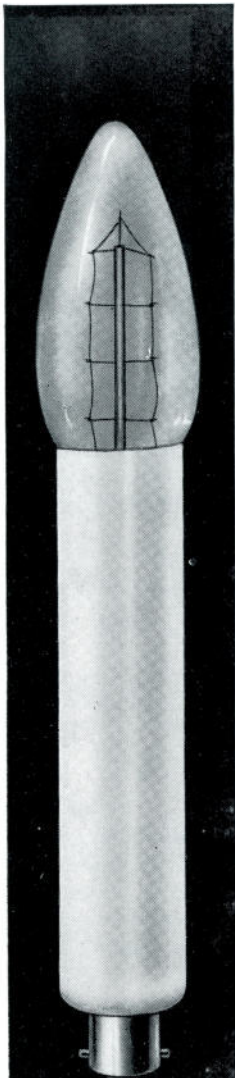
CANDLE

Watts	Caps	Type	Dimensions		PRICE	
			Dia. mm.	Length mm.	50, 60, 65, 75v.	100/130 200/260v.
25	B.C. S.B.C. S.E.S.	Plain Clear	39 max.	119 max.	s. d.	s. d.
				122 "	4 9	3 9
				125 "		
40	B.C. S.B.C. S.E.S.	Plain Clear	47 max.	130 max.	—	4 3
				133 "		
				136 "		
60	B.C. S.B.C. S.E.S.	Plain Clear	47 max.	130 max.	—	4 9
				133 "		
				136 "		
25 40 60	as above	Plain Sprayed	as above		4 11 — —	3 11 4 6 5 0
25	B.C. S.B.C. S.E.S.	Twisted Clear	39 max.	119 max.	—	4 3
				122 "		
				125 "		
40	B.C. S.B.C. S.E.S.	Twisted Clear	57 max.	147 max.	—	5 0
				150 "		
				153 "		
60	B.C. S.B.C. S.E.S.	Twisted Clear	57 max.	147 max.	—	5 6
				150 "		
				153 "		
25 40 60	as above	Twisted Sprayed	as above		— — —	4 5 5 3 5 9
25 40	S.B.C. S.B.C.	Special "	35	208	—	6 6
			45	238	—	7 0

Plain Candle



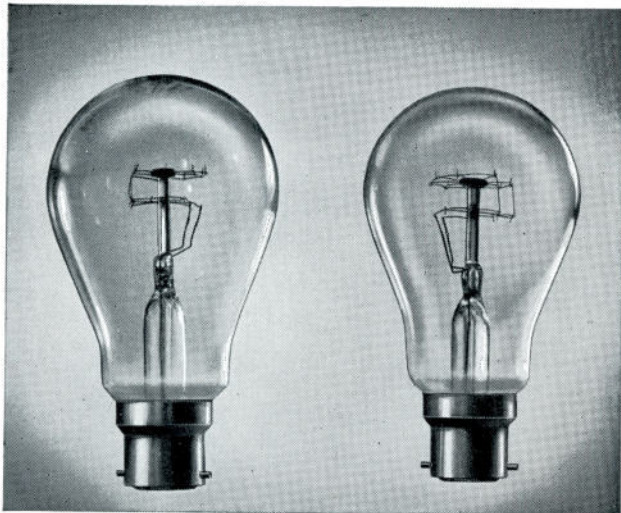
Special Candle



Twisted Candle

ROUGH SERVICE, TRACTION,

ROUGH SERVICE clear or pearl



Rough Service

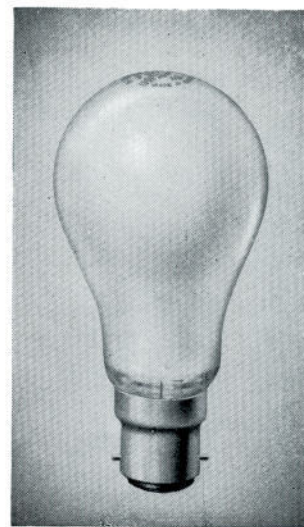
Rough service lamps, both clear and pearl, are for use in situations where vibration materially shortens the life of ordinary filament lamps.

Watts	Caps	Approx. Dimensions			PRICE 100/130, 200/260v.
		Dia. mm.	Length mm.	L.C.L. mm.	
40	} BC or ES }	60	110	80	} s. d. 2 0
60		65	117.5	85	

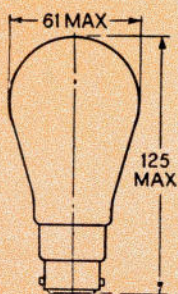
TRACTION

To current B.S. Specification 867

Volts	Watts Amps	Caps	App. Dimensions		PRICE
			Dia. mm.	Length mm.	Pearl Clear
100 } 110 } 120 } 130 }	40 0.35 amp 60 0.52 amp	B.C. E.S. B.C. E.S. }	60	110	s. d. 1 9
			65	117.5	1 9
with Fusible Cut-out					
40 } 50 }	40 60	E.S. }	60 65	110 117.5	2 5

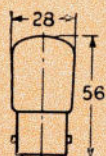


Traction



10

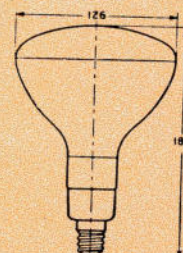
Neon
Lighting



Pygmy
Sign



Neon
Indicator



Industrial Infra-Red.
Spotlight

The Traction Lamps and the Radiant Heat Lamps have standard bulbs as shown on page 4.

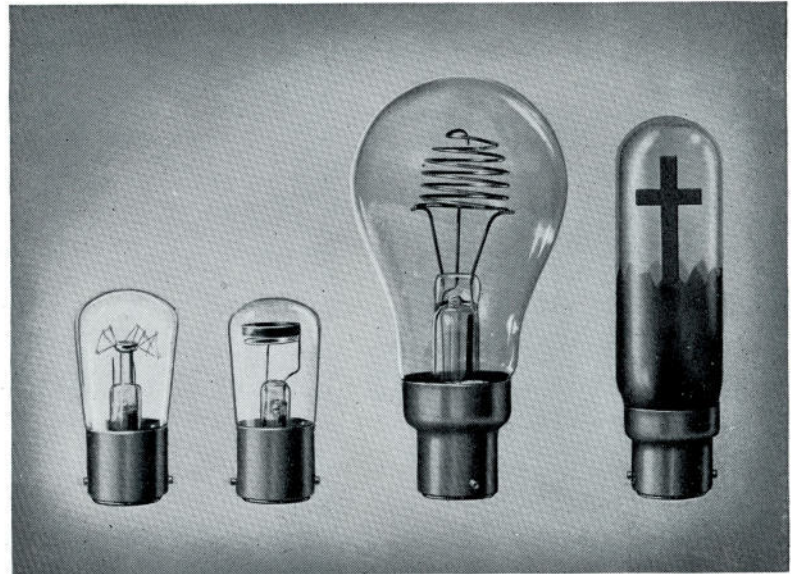
NEON, SIGN, & INFRA-RED LAMPS



NEON

Watts	Caps	Type	App. Dimensions		PRICE
			Dia. mm.	Length mm.	
					200/220 230/440 250/260v.
1/5*	S.E.S.	Indicator	12	28	s. d. 4 9
1/2*	S.E.S.		18	56	4 0(a)
	S.B.C.		18	54	
	B.C.		28	56	
	E.S.		28	58	
5	B.C.	Lighting	61 max	125 max	4 6
5	E.S.				
5	B.C.	Shrine	61 max	125 max	8 6
	E.S.				

* Also available 100/130v. (a) Sprayed 4/2d.



Pygmy Neon Indicator Neon Lighting Shrine

PYGMY SIGN

Watts	Caps	App. Dimensions		PRICE		
		Dia. mm.	Length mm.	25, 50, 60, 65, 75v.	100, 110, 130, 200/260v.	
15	B.C. E.S. S.B.C. S.E.S.	28	56 58 62 64	s. d. 2 5	s. d. 1 10†	
SPRAYED (Wholly)						
15	do.		do.	do.	2 7	2 0†

Colours : Red, Blue, Green, Yellow, Flame, Pink, Orange, Amber and White.

†If designed as Switchboard Indicator, 8d. each extra 100/130v., 200/260v.

SIGN (internally sprayed)

Watts	Caps	App. Dimensions		PRICE
		Dia. mm.	Length mm.	
				110, 200/260v.
15	B.C. E.S.	44	90	s. d. 2 1

Colours : Red, Green, Yellow, Blue, White, Orange.

INFRA-RED INDUSTRIAL

Watts	Caps	Approx. Dimensions			PRICE	
		Dia. mm.	Length mm.	L.C.L. mm.	100/130 volts	
					Pearl	Clear
250	E.S.	90	178	133	s. d. 8 3	s. d. 7 9
REFLECTOR TYPE						
					100/130; 200/260v	
250	E.S.	126	180	110	s. d. 15 6	

RADIANT HEAT

					110, 120, 210, 230, 250v.	
60	B.C.	65	117.5	—	s. d. 2 3	

SPOTLIGHT & DECORATION LAMPS



SPOTLIGHT REFLECTOR

These lamps have a reflecting surface on the inside of the glass bulb which will neither tarnish nor peel during the lifetime of the lamp.

In addition the cap is attached by a special mechanical method dispensing with the use of cement, thus overcoming any tendency of the cap to become loose through heat.

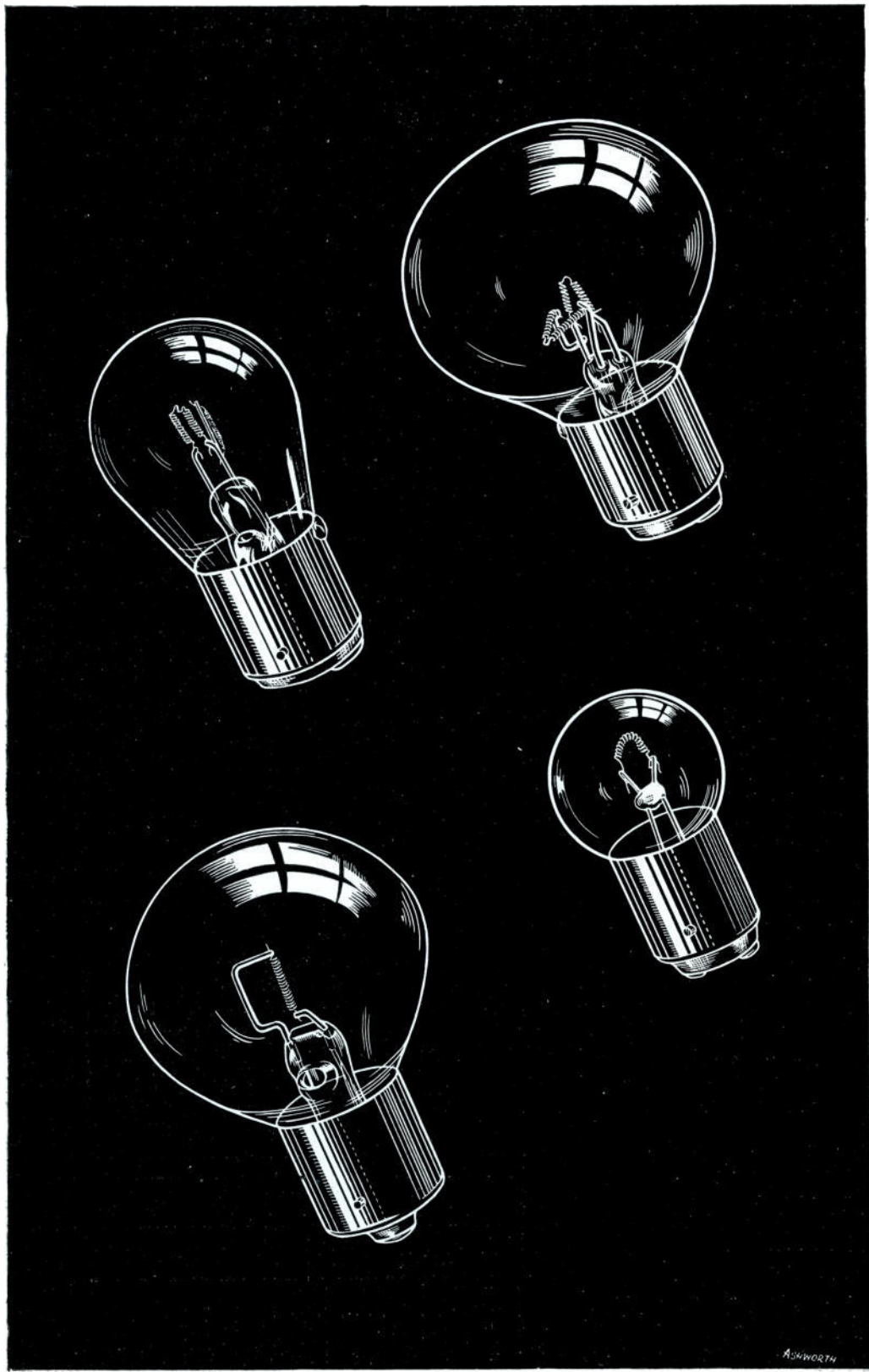
Watts	Cap	Filament	Dia. mm.	Length mm.	PRICE
					110, 210, 230, 240, 250v.
150	ES	Ring Grid	126	176	s. d.
					15 6
					18 6

DECORATION SETS

	PRICE
	s. d.
Standard Set with 12 colour-sprayed 20v. 3w. 19 mm. lamps, one spare lamp and 16 feet PVC flex and BC adaptor ...	18 2
Purchase Tax	4 7
Standard Shade Set with 12 clear 20v. 3w. 19 mm. lamps and 12 white or coloured shades with nursery rhyme motifs, also one spare lamp, 16 feet PVC flex and BC adaptor ...	28 0
Purchase Tax	7 0

Spare lamps, clear or colour sprayed: 20v 3w. 19 mm. 1s. 0d. each.
Purchase Tax 3d.





***Auto
Lamps***

METROVICK

HEAD — Single Filament

STANDARD CAP : S.C.C.

Volts	Watts	Dia. mm.	Filaments	PRICE Clear
6	24	38	Axial	s. d. 2 6
6bc	36	38	Axial or V ...	2 9
12	24	38	„ or V ...	2 6
12	36	38	Axial or V ...	2 6
12bc	48	38	Axial ...	4 0
12	60	50	„ ...	5 6
24ab	36	38	Axial ...	3 0
24a	48	38	„ ...	4 6
24a	60	50	„ ...	6 0

S.B.C., A.S.C.C., A.S.B.C., 1d. extra. Bosch cap, 3d. extra.
(a) S.B.C., B.C., or Coiled-coil Filament, no extra ; (b) Prefocus cap, 6d. extra ; (c) "U" filament 3d. extra.

HEAD — Double Filament

STANDARD CAP : S.B.C., A.S.B.C.

6	18 & 18	38	V	4 6
6	24 & 24	38	„	3 6
6	30 & 30	38	„	3 6
6	36 & 36	38	„	3 6
12	36 & 36	38	„	3 6
24a	36 & 36	38	„	5 9

Bosch cap, 3d. extra. Prefocus cap, 6d. extra.
(a) Coiled-coil filament no extra.

STOPLIGHT

STANDARD CAP : S.B.C., double filament. S.C.C., single.

6a	3 & 18	25	V	3 6
6	18	25	„	3 9
12	18	25	„	3 6
12a	6 & 18	25	„	3 6

(a) With S.B.C., with offset pins, 3d. extra.



Indicator

SIDE, TAIL & DASH

STANDARD CAP : S.C.C.

Volts	Watts	Dia. mm.	Filaments	PRICE Clear
6a	3	18	Bow	s. d. 1 4
6	6	18	„	1 7
12b	6	18	„	1 4
24c	6	18or22	„ or V ...	1 8

S.B.C. cap, 1d. each extra.
(a) 15 mm. dia. and M.C.C. cap, 1/6 each.
(b) 15 mm. dia. and M.C.C. cap, 1/7 each.
(c) S.B.C. or B.C. cap no extra.

INDICATOR

STANDARD CAP : M.E.S.

Volts	Watts	Approx. Dimensions		PRICE Clear
		Dia. mm.	Length mm.	
6	3.0	} 11	} 23	s. d. 1 3
12	2.2			1 3
6	3.0			1 3
8	1.6			2 3
12	2.2	} 15	} 27.5	1 3
16	3.0			2 3
24	2.8			2 0

M.C.C. cap, 3d. extra.

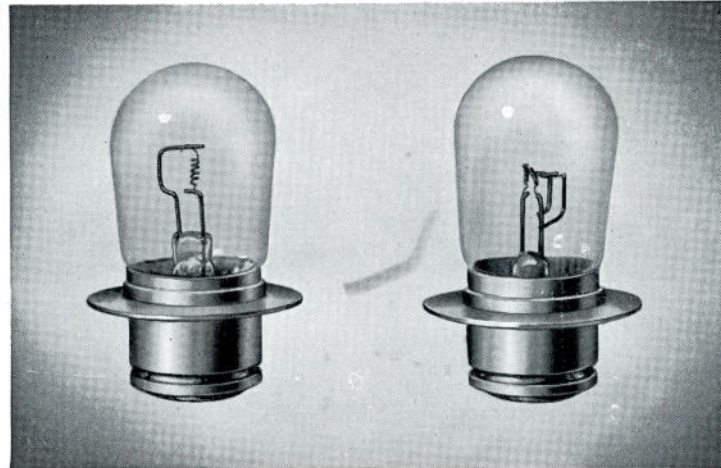
TRAFFICATOR

6	3	7.5	35.5	2 3
6	6	11	38	2 7
12	3	7.5	35.5	2 3
12	6	11	38	2 7
24	6	11	38	2 6
24	6	11	44	3 0



Trafficator

BRITISH PREFOCUS HEADLAMPS



Single and Double Filament

Single Filament

STANDARD CAP : Single Contact Prefocus

Volts	Watts	Filaments	PRICE
6	36	Single Coil Transverse	s. d. 4 0
6	36	Single Coil Axial	3 9
12ac	36	Coiled Coil Axial	3 9
12c	38	Single Coil Transverse	3 9
12	48	Single Coil Transverse	4 9
12a	48	Coiled Coil Axial	4 9
24d	44	Coiled Coil Axial	5 6
24d	44	Coiled Coil Transverse	5 6

Double Filament

STANDARD CAP : Double Contact Prefocus

Volts	Watts	Filaments	PRICE
6	18/18	Single Coil Transverse	s. d. 5 3
6	24/24	Single Coil Transverse	4 9
6	30/24	Single Coil Transverse	5 6
6	36/36	Single Coil Transverse	4 6
12	42/36	Single Coil Transverse	5 0
12b	44/38	Single Coil Transverse	6 3
12a	48/48	Coiled Coil Transverse	6 9
24	38/38	Coiled Coil Transverse	6 9
24b	44/38	Coiled Coil Transverse	7 6

Approx. Dimensions : Dia. 28 mm. Length 62 mm. L.C.L. 21.5 mm.

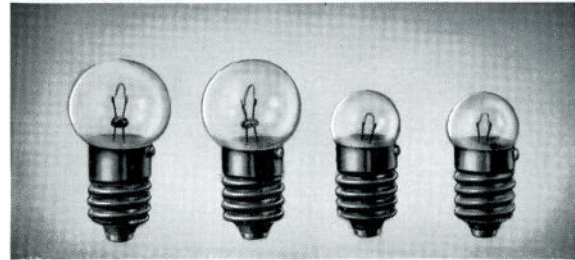
- (a) Also available Single Coil. (b) For commercial vehicles only. (c) Also available with Double Contact Prefocus.
(d) Double Contact Prefocus.

FLASH LAMP BULBS

STANDARD CAPS : M.E.S.

Volts	Amps.	Diameter (mm.)	PRICE
1.5	0.11	15.0	s. d. 0 8
2.0	0.6	15.0	0 8
2.2a	0.25	9.5	0 10
2.5	0.2	11.0	0 5 $\frac{1}{2}$
2.5	0.3	11.0	0 5 $\frac{1}{2}$
3.5	0.15	11.0	0 5 $\frac{1}{2}$
3.5	0.3	11.0	0 5 $\frac{1}{2}$
4.0	0.3	11.0	0 5 $\frac{1}{2}$
4.5	0.3	15.0	0 5 $\frac{1}{2}$
5.0	0.15	15.0	0 8

(a) Lens end.



CYCLE DYNAMO

Volts	Amps.	Caps	Dia. mm.	PRICE
HEADLAMPS				
6	0.3	S.C.C.	18	s. d. 1 4
6	0.2	M.E.S.	15a	0 9
6	0.3			0 9
6	0.45			0 9
6	0.5			0 9
6	0.5	S.C.C.	18	1 4
TAIL LAMPS				
3.5	0.15	M.C.C.	11 & 15	0 9
6	0.04	M.E.S.		0 9

(a) Also in Granulated bulb.

RADIO PANEL OR DIAL

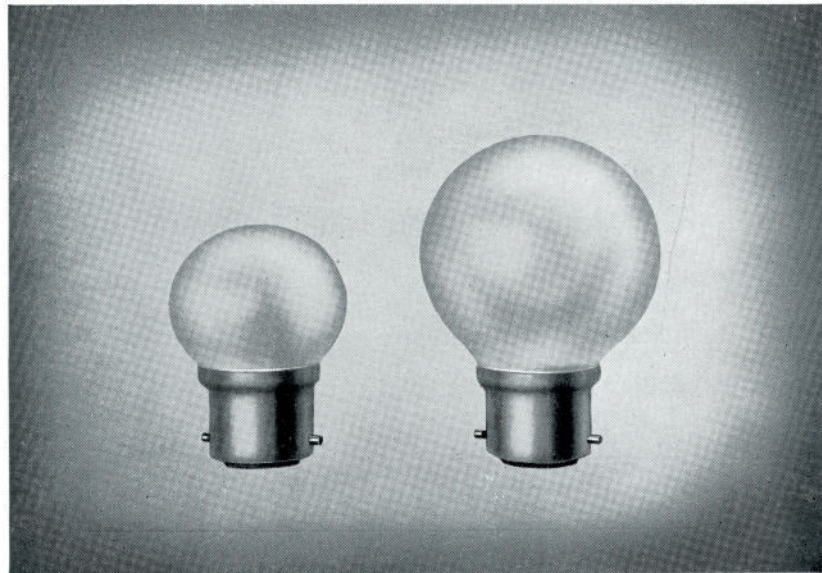
STANDARD CAPS : M.E.S.

Volts	Amps.	Approx. Dimensions		PRICE
		Dia. mm.	Overall Length mm. (max.)	
CLEAR ROUND BULB				
6	0.04	11	24	s. d. 1 0
6	0.06	11	24	1 0
6.2a	0.3	15	29	0 7 $\frac{1}{2}$
6.3	0.11	11	24	0 7 $\frac{1}{2}$
6.5	0.3	11	24	0 7 $\frac{1}{2}$
CLEAR TUBULAR BULB				
6.2a	0.3	10	30	0 7 $\frac{1}{2}$
6.3a	0.15	10	30	0 7 $\frac{1}{2}$
6.5	0.3	10	30	0 7 $\frac{1}{2}$

(a) Average life 10 hours.

EXTRA : For M.C.C. Cap 1d. each extra list 4/- nett per 100.
For varnishing 2d. each extra list 8/- nett per 100.

RADIO PANEL & BUS LAMPS



38 mm. and 50 mm. Interior Bus

TROLLEY BUS

Type	Volts	Watts	Ca.	Approx. Dimensions		PRICE	
				Dia. mm.	Length mm.	CLEAR	PEARL
Instrument ...	35	6	S.B.C.	22	37	s. d. 2 6	s. d. —
Side	35	6	B.C.	38	56	2 6	2 6
Interior		15	B.C.			2 9 ^a	2 9 ^a
Interior		20	B.C.			3 0 ^a	3 0 ^a
Headlamp ...		36	S.B.C.			4 0	—

(a) Also available in 50 mm. diameter.

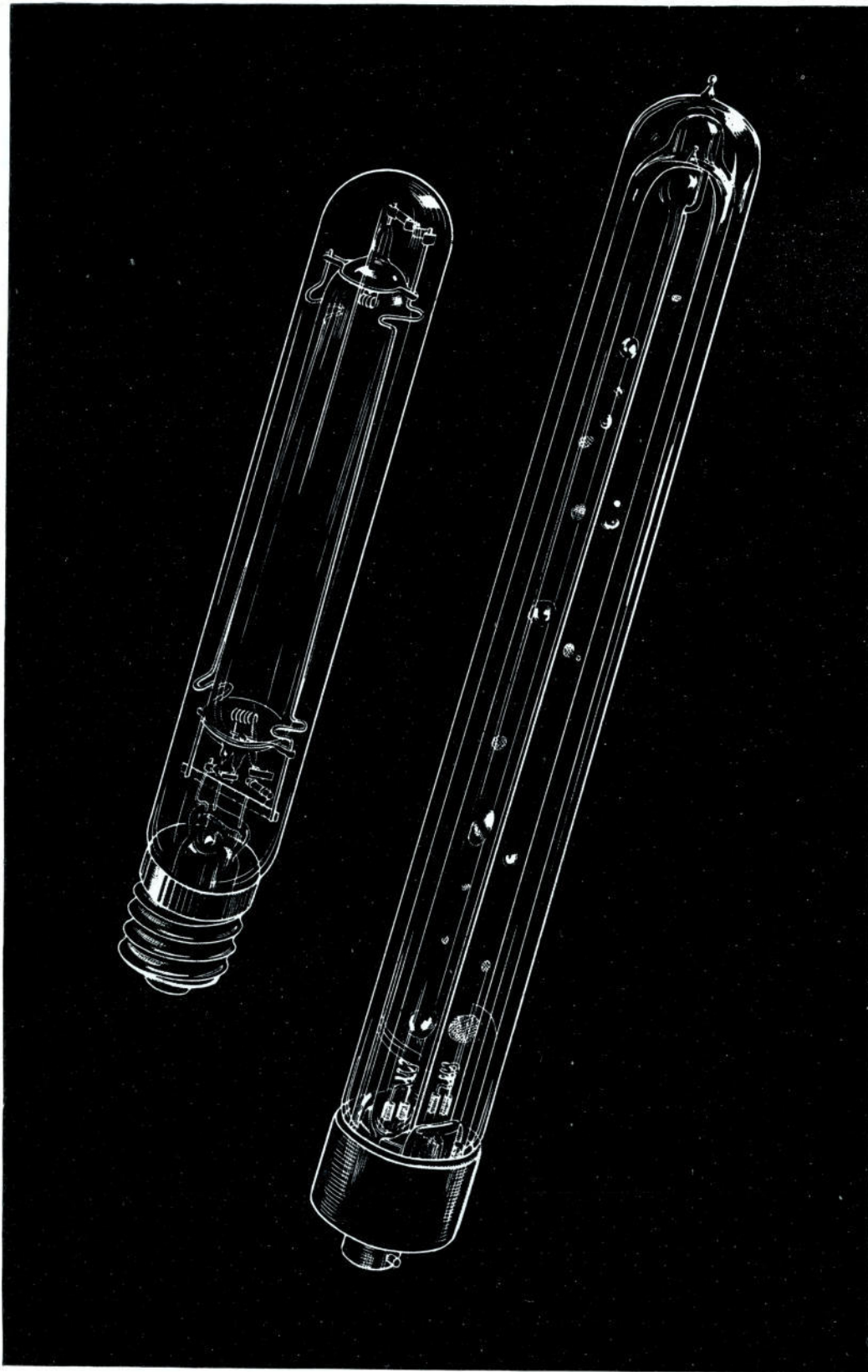
MOTOR BUS

Interior Lighting {	12	12	B.C., S.B.C.	38	or	56	—	2 4
	24	12						2 9
	24	20						50



STANDARD PACKAGE QUANTITIES

Type	Watts	Lamps	Type	Watts	Lamps	
General Service	15, 25, 40, 60, 75, 100, 150	50 per outer container	Miners'	—	25 per box	
	200 ...	25 " " "		Mercury Discharge	80, 125, 250, 400 ...	24 per outer container
	300 ...	12 " " "	Sodium Discharge		45, 60 ...	18 " " "
	500 ...	9 " " "			85, 140 ...	9 " " "
	750 ...	6 " " "			Fluorescent Tubular	80w.—5 ft.
	1000 ...	6 " " "		40w.—4 ft.		
1500 ...	4 " " "	40w.—2 ft.		50 " " "		
Auto-mobile	S.T.D. ...	12 per box	20w.—2 ft.			
	38mm Head, Bus ...	108 per package				
	50 mm Head, Bus ...	136 per package				
	Indicator, Festoon or Trafficator	100 per box				
	Flash, Radio Panel, Cycle Dynamo	100 per box				



***Electric
Discharge
Lamps***

METROVICK

Standard Voltage : 200/250v.

STANDARD MERCURY

Watts	Caps	Type	Outer Envelope	Lumens Average throughout life	Approx. Dimensions		PRICE
					Dia. mm.	Length mm.	
80c	3-pin B.C.	MB/V	Pearl	2500	80	160	s. d. 39 6
125	3-pin B.C.	MB/V	Pearl	4100	90	178	45 0
125	3-pin B.C.	MBW/V(b)	Ultra Violet filter	—	90	178	63 0
250a	G.E.S.	MA/V	Clear	8000	48	290	54 0
250	G.E.S.	MA/U	Soft glass	7250d	48	290	57 6
250	G.E.S.	MA/U	Hard glass		48	290	69 0
400	G.E.S.	MA/U	Soft glass	13200d	48	330	62 6
400	G.E.S.	MA/U	Hard glass		48	330	75 0
400a	G.E.S.	MA/V	Clear	14400	48	330	59 0
1000e	G.E.S.	MB/V	Clear	48000	165	335	160 0
2500	Large Bi-post	MA/H	Hard glass	—	70	540	450 0

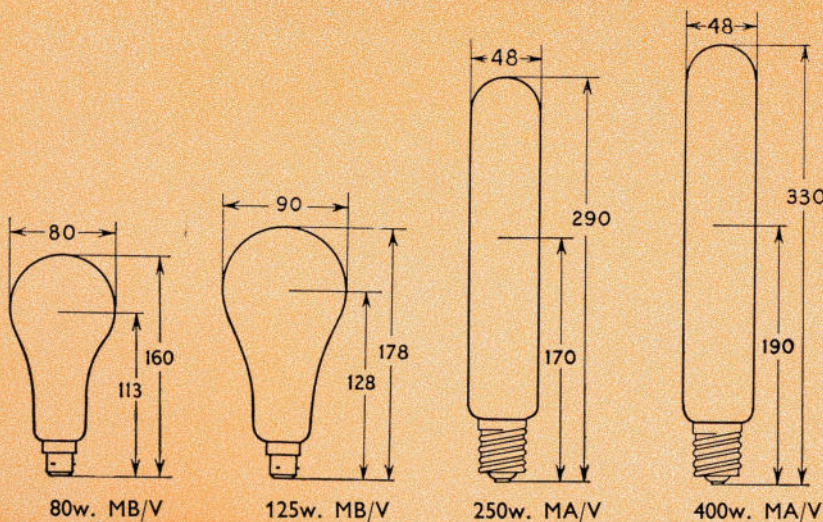
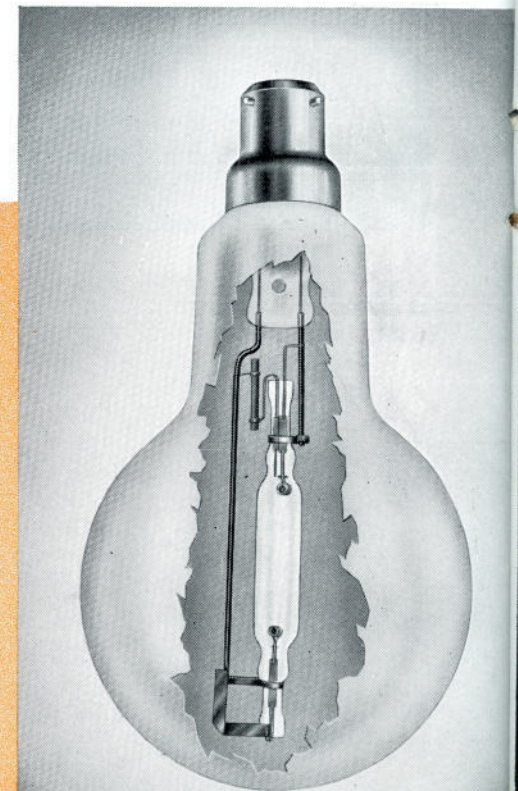
(a) Also 100/130v. (b) These lamps may also be used in other positions than vertical without serious loss of performance.
(c) 80w. 1s. 2d. extra, white sprayed. (d) If these are used vertically efficiency increased approx. 10 per cent. (e) 350/450v.

Standard Voltage : 200/250v.

FLUORESCENT

Watts	Caps	Type	Lumens average throughout life	Approx. Dimensions		PRICE
				Dia. mm.	Length mm.	
80	3-pin B.C.	MBF/V	2500	110	178	s. d. 48 6
125	G.E.S.	MBF/V	4100	130	233	59 0
400	G.E.S.	MAF/V	12800	165	335	81 6

80/125w. Standard Mercury (Cut away view)



DISCHARGE LAMPS



SODIUM

Watts	Caps	Type	Burning Position	Lumens Average throughout life	Approx. Dimensions		PRICE	
					Dia. mm.	Length mm.	Lamp Only	Detach-able Vac. Jacket
45	B.C. 2-pin ceramic	SO	Horizontal to Vert (Cap up)	2200	50	238	s. d. 42 6	s. d. 21 9
60			"	3400	50	300	52 6	24 6
85			Horizontal	5400	50	415	63 0	29 3
140			"	9000	65	518	74 6	33 0

MERCURY—TYPE ME/D.

Standard Voltage : 200/250v A.C. or D.C.

Watts	Caps	Type	Approx. Dimensions			PRICE
			Dia. mm.	Length mm.	L.C.L. m.m.	
250	3-pin (a) Prefocus (P40/41)	ME/D	50	135(b)	85	s. d. 250 0
			51	156	65	
250	3-pin (a) Prefocus (P28/25)	ME/D	64 × 55(c)	130(b)	80	350 0
			43 × 34(d)	103	55.5	

250w. ME/D Mercury Discharge.



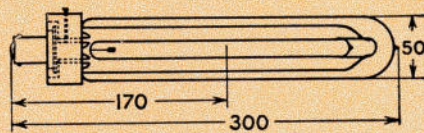
- (a) Contacts fit standard 3-pin 5-amp sockets.
- (b) Excluding pins. (c) Box type. (d) With a 5.5 mm. projection on the major axis opposite the L.C.L.



45w. SO



85w. SO

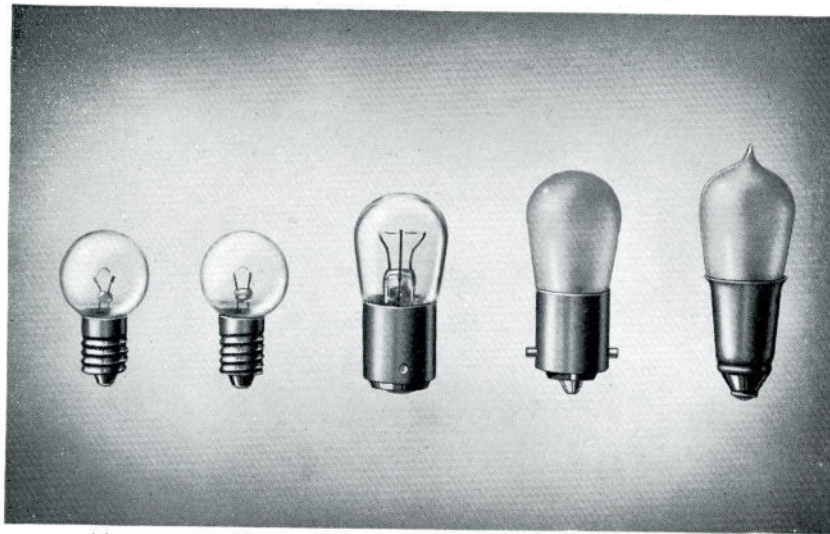


60w. SO



140w. SO

MINERS' LAMP BULBS



(a) (a) (d) (b) (e)

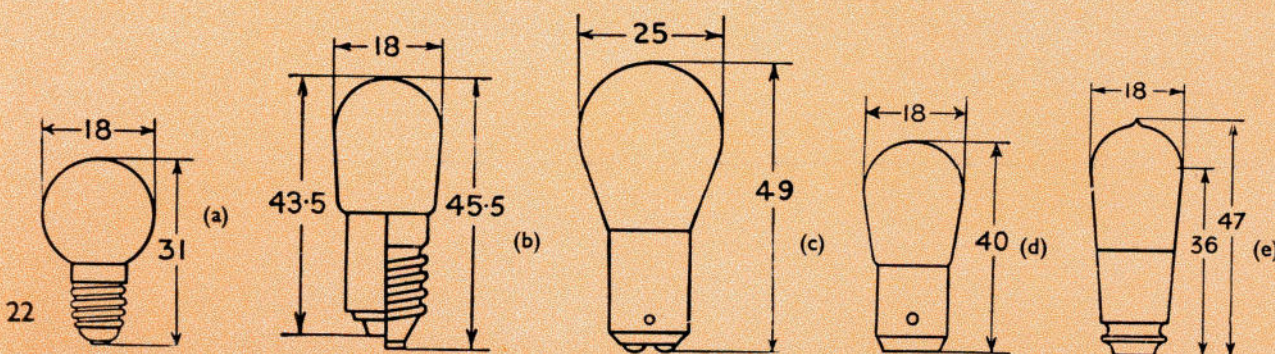
CLEAR "CAP" TYPE

Rating of Bulb		Shape of Bulb	Outline	Bulb Filling	Standard Caps		Approx. Dimensions		PRICE
Volts	Amps.				Type	No.	Dia. mm.	Length mm.	
3.6	1.0	Round	a	Krypton	M.E.S.	E10	18	31	s. d.
3.75	1.0 and 1.0	Pear	d	"	S.B.C.	B15d/17	18	40	3 0
4.0	0.55 and 0.55	"	c	Argon	S.B.C.	B15d/21	25	49	3 6
4.0	0.80	Round	a	Krypton	M.E.S.	E10	18	31	2 9
									3 3

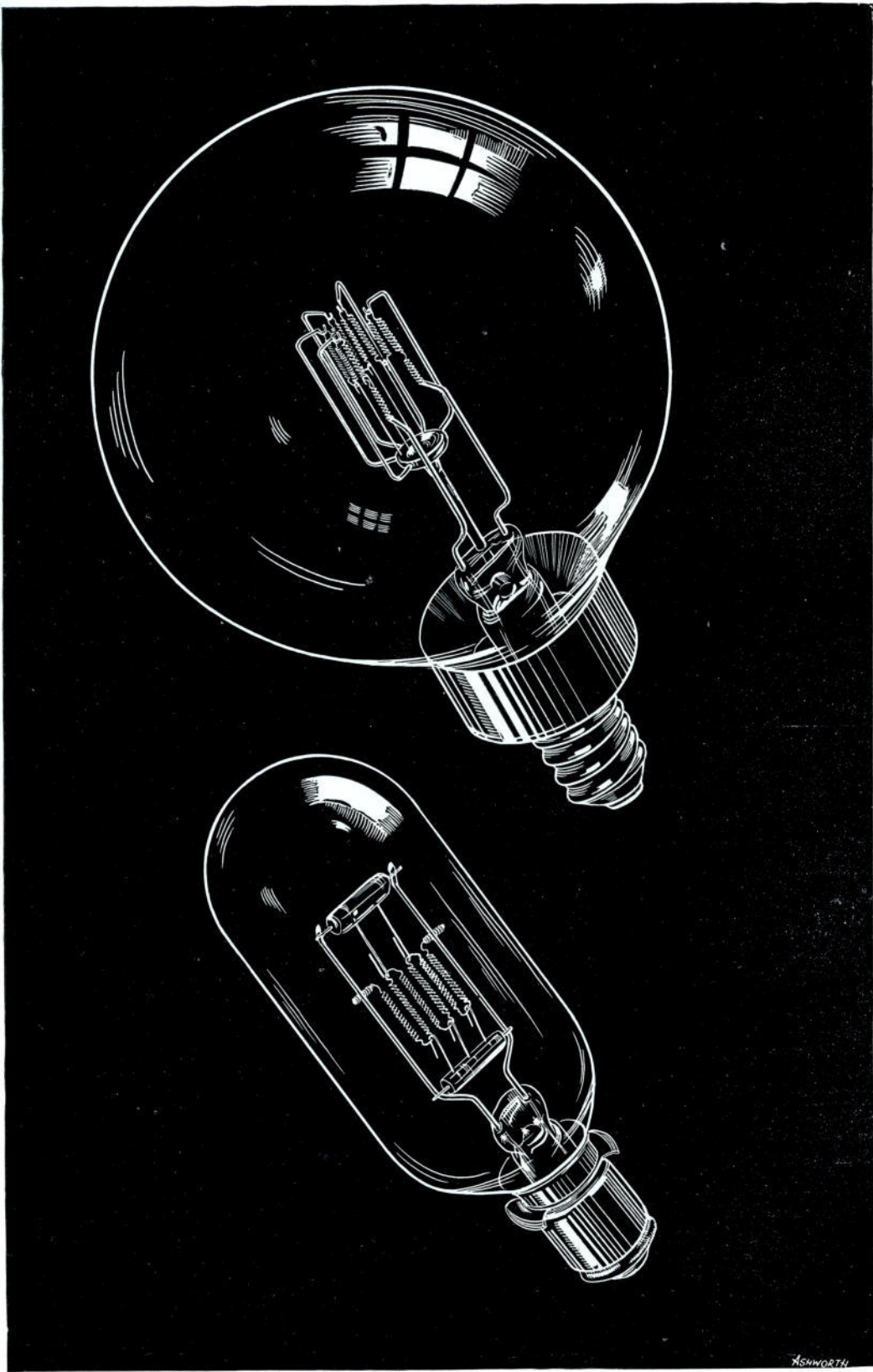
PEARL "HAND" TYPE (with fuse in cap)

2.5	1.5	Pear	b	Krypton	S.C.C.	953	18	43.5	} 3 0
2.5	1.5	"	b	"	S.E.S.	E14	18	45.5	
2.5	1.75	"	b	"	S.C.C.	953	18	43.5	
2.5	1.75	"	b	"	S.E.S.	E14	18	45.5	
4.0	0.75	"	b	"	S.E.S.	E14	18	45.5	
4.0	0.75	"*	e	"	Peg	Peg	18	47.0	
4.0	1.0	"	b	"	S.E.S.	E14	18	45.5	

* With pip.



The bulbs in this schedule bear this authorised stamp of the Ministry of Fuel and Power.



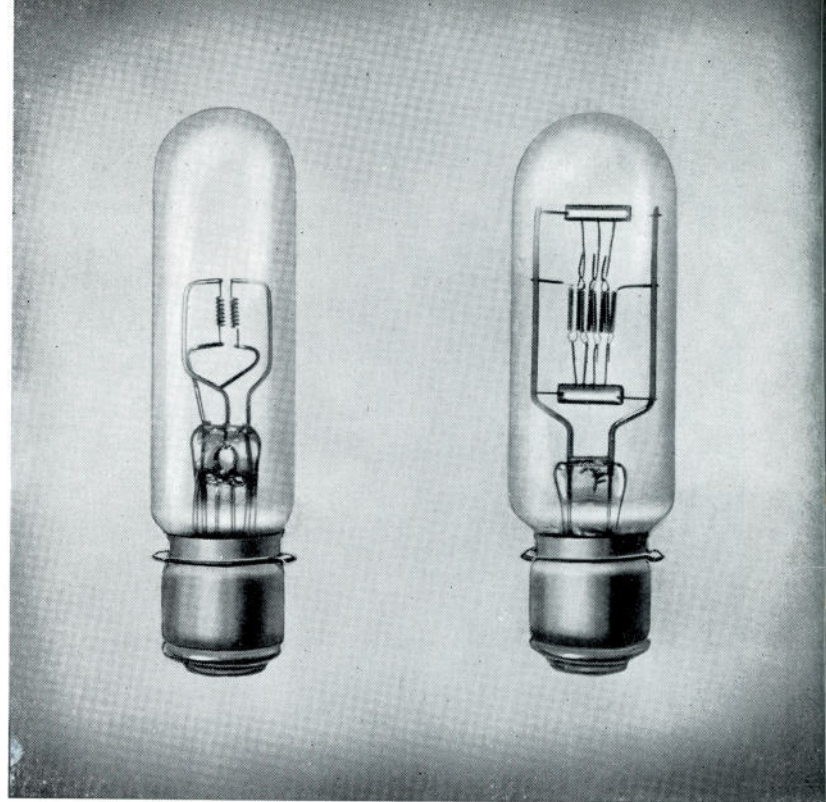
***Projector
Lamps***

METROVICK



PROJECTOR LAMPS

SCHEDULE A

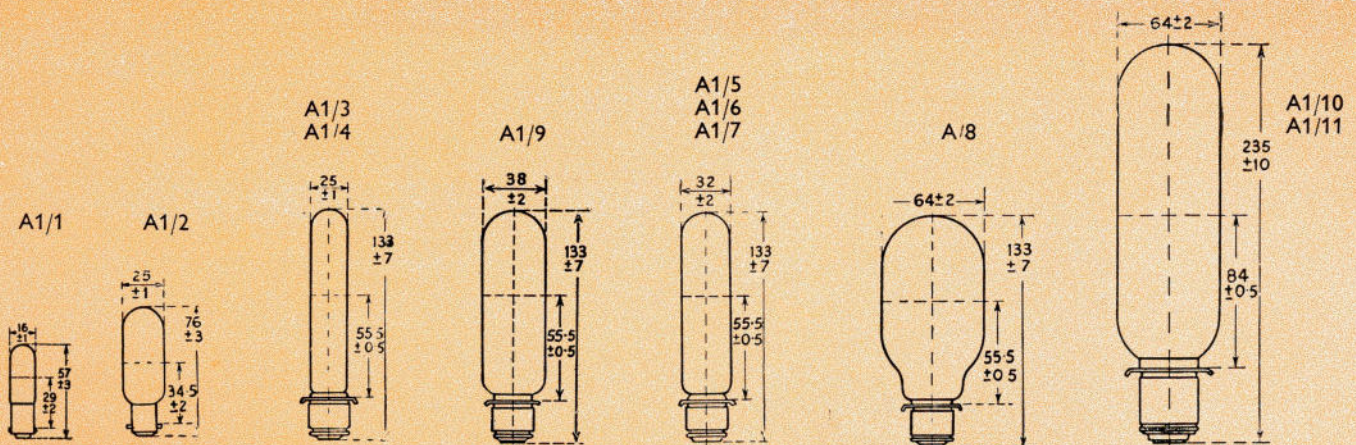


A1 250w.

A1 750w.

CLASS A1 — TUBULAR					BURNING POSITION : Vertical Cap Down				
Ref. No.	Watts	Caps Fully described on p. 32	Filament	Average Life (hr.)	Dimensions			Voltage Range	PRICE
					Diameter mm.	Overall Length mm.	Light Centre Length mm.		
A1/1	25	B.15s/21	—	50	16±1	57±3	29±2	50	s. d.
A1/2	50	B.15s	—	50	25±1	76±3	34.5±2	115	4 9
A1/3	100	P.28/25	Offset ...	50	25±1	133±7	55.5±0.5	30	7 3b
A1/4	100	P.28/25		50	25±1	133±7	55.5±0.5	12, 115, 200/250	12 9
A1/5	250	P.28/25	Central ...	50	32±2	133±7	55.5±0.5	115, 200/250	23 0b
A1/5	250	P.28/25	Central ...	50	32±2	133±7	55.5±0.5		24 0b
A1/6	300	P.28/25	Bi-plane ...	25	32±2	133±7	55.5±0.5	115	28 6at
A1/7	500	P.28/25		25	32±2	133±7	55.5±0.5	115	37 0ab
A1/8	500	P.28/25		50	64±2	133±7	55.5±0.5	115, 200/250	27 6
A1/9	750	P.28/25	Bi-plane ...	25	38±2	133±7	55.5±0.5	115	42 6ab
A1/10	900	P.40/41		50	64±2	235±10	84±0.5	30	41 0
A1/11	1000	P.40/41		50	64±2	235±10	84±0.5	115, 200/250	35 6

- (a) Forced cooling is necessary so that no part of the wall of the bulb exceeds a temperature of 500°C.
 (b) These lamps may be supplied with tips black sprayed at no extra charge.





E Epidiascope

B2 Floodlighting

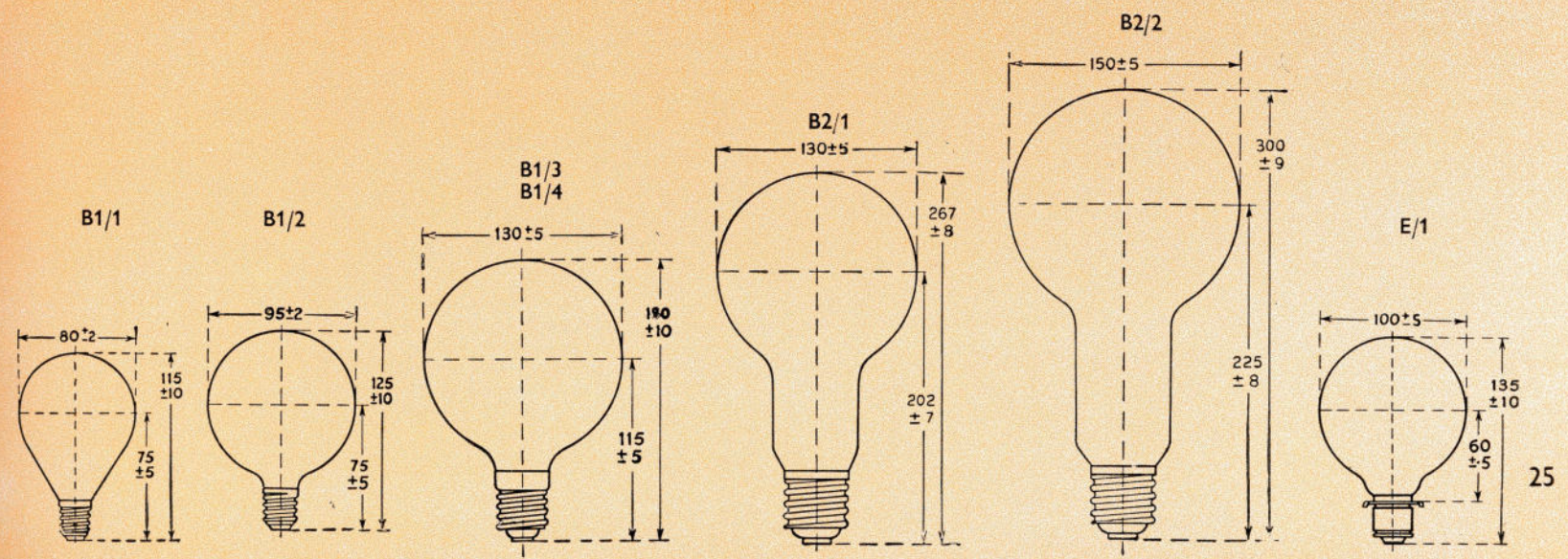
SCHEDULE A

British Standard Schedule

Manufacturers of Apparatus are recommended to adopt the lamps in Schedule A whenever possible

CLASS B1—FLOODLIGHTING—ROUND BURNING POSITION: Any position except within 45° of Cap Up								
Ref. No.	Watts	Caps Fully described on page 32	Average Life (hours)	Dimensions			Voltage Range	PRICE
				Dia. mm.	Overall Length mm.	Light Centre Length mm.		
B1/1	100	E.27/25 ...	800	80±2	115±10	75±5	115, 200/250v.	s. d.
B1/2	250	E.27/25 ...	800	95±2	125±10	75±5		10 0
B1/3	500	E.40/45 ...	800	130±5	180±10	115±5		19 3*
B1/4	1000	E.40/45	800	130±5	180±10	115±5		25 3
CLASS B2 — FLOODLIGHTING — Round with Neck BURNING POSITION: Any								
B2/1	500	E.40/45 ...	800	130±5	267±8	202±7	115, 200/250v.	25 3
B2/2	1000	E.40/45 ...	800	150±5	300±9	225±8		33 0
CLASS E — EPIDIASCOPE — Round BURNING POSITION: Any position within 45° of Cap Down								
E/1	500	P.28/25	100	100±5	135±10	60±0.5	115, 200/250v.	31 3

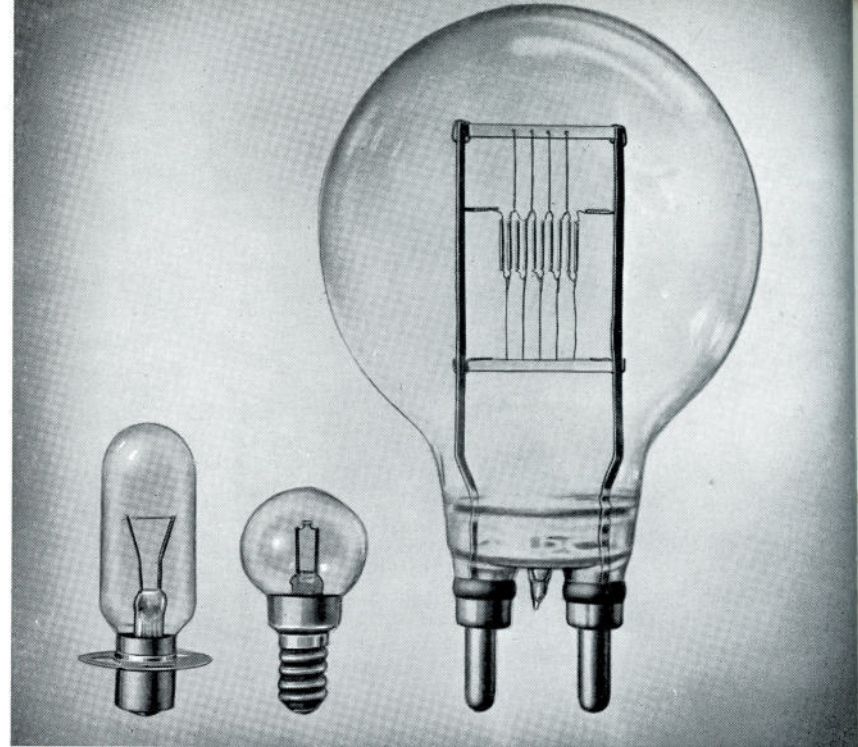
* Obscured bulb 1s. 3d. extra, 230 volts only.



PROJECTOR LAMPS

Schedule A (continued)

Manufacturers of Apparatus are recommended to adopt the lamps in Schedule A whenever possible



G Exciter F Micro-projection S Studio

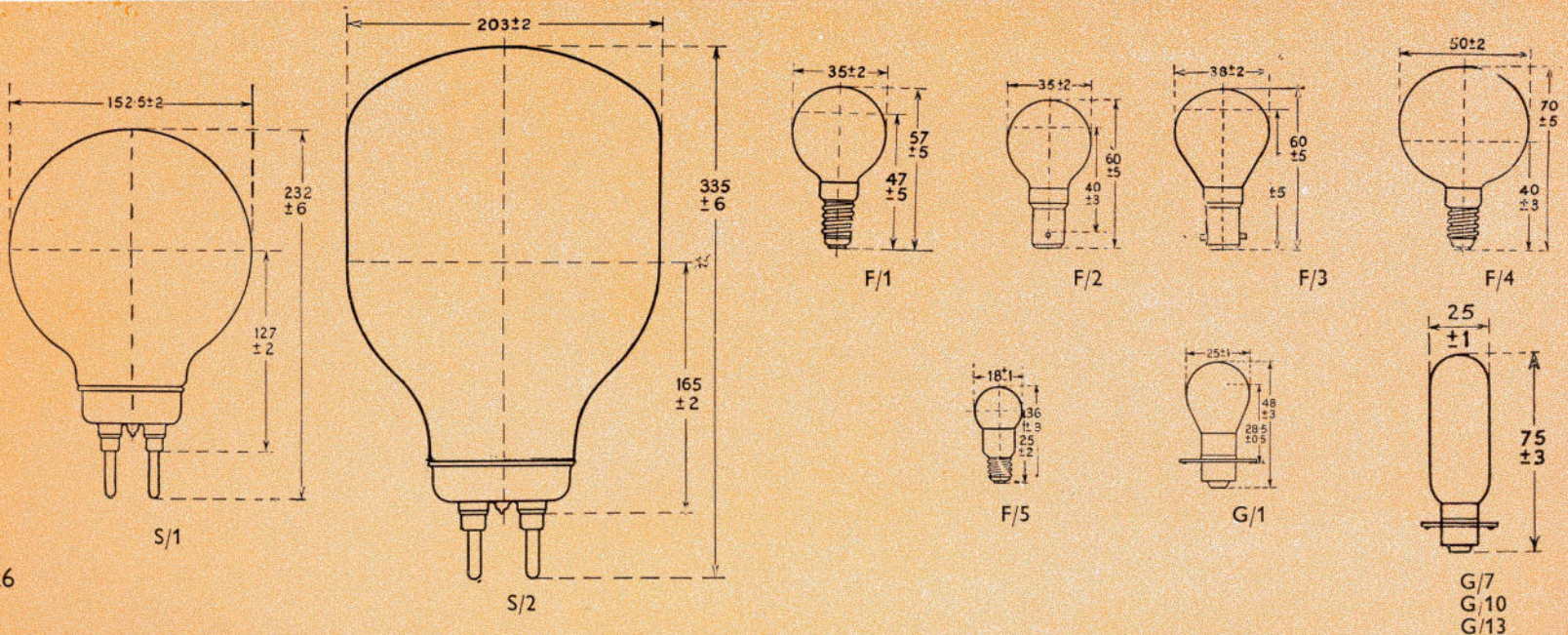
CLASS F — MICRO-PROJECTION, Etc.					BURNING POSITION : Horizontal *				
Ref. No.	Watts	Caps Fully described on page 32	Filament	Average Life hr.	Dimensions			Voltage Range	PRICE
					Dia. mm.	Overall Length mm.	Light Centre Length mm.		
F/1	30	E.14/23×15	Transverse	25	35±2	57±5	47±5	6	s. d. 6 6
F/2	48	B.15/24×17	Transverse	100	35±2	60±5	40±3	6	8 3
F/3	24	B.15/24×17	Transverse	100	38±2	60±5	44±5	12	4 0
F/4	48	E.14/23×15	Twin Pillar	100	50±2	70±5	40±3	12	6 0
F/5	9	E.10/20×13	—	100	18±1	36±3	25±2	18	2 7

CLASS G — EXCITER — TUBULAR					BURNING POSITION : Cap Down or Horizontal				
Ref. No.	Amps.	Caps	Filament	Average Life hr.	Dia. mm.	Overall Length mm.	Light Centre Length mm.	Voltage Range	PRICE
G/1	0.75	P.15s/19	Transverse	50	25±1	48±3	28.5±0.5	4	7 0
G/7	4.0	P.15s/19	—	100	25±1	75±3	37.3±0.5	8	7 0
G/10	5.0	P.15s/19	—	100	25±1	75±3	37.3±0.5	10	9 0
G/13	7.5	P.15s/19	—	100	25±1	75±3	37.3±0.5	10	9 0
G/19	0.75	B.15s & liner	Transverse	50	15±1	48±3	31.75±0.75	4	6 0

CLASS S — STUDIO SPOTLIGHT					BURNING POSITION : Cap Down				
Ref. No.	Watts	Base	Filament	Average Life hr.	Dia. mm.	Overall Length mm.	Light Centre Length mm.	Voltage Range	PRICE
S/1	2000	Bi-post	—	100	152.5±2	232±6	127±2	115, 240	93 6
S/2	5000	Bi-post	—	100	203±2	335±6	165±2	115, 240	300 0

2000w. Round Bulb. 5000w. Tubular Bulb.

* Normally.





PROJECTOR LAMPS

SCHEDULE B — NON-STANDARD

The lamps shown in this Schedule are intended for use with existing apparatus.

CLASS A1 — TUBULAR				BURNING POSITION : Vertical Cap Down					
Ref. No.	Watts	Caps Fully described on page 32	Filament	Average Life hr.	Dimensions			Voltage Range	PRICE
					Diameter mm.	Overall Length mm.	Light Centre Length mm.		
A1/73	15	B.15s/21		50	16±1	57±3	29±2	40	s. d. 4 0
A1/2	50	B.15s ...		50	25±1	76±3	34.5±2	100, 110	7 3b
A1/19	50	B.15d ...		50	25±1	76±3	34.5±2	100/115	7 3b
A1/20	50	E.14/23×15		50	25±1	78±3	43±3	100/115	7 3b
A1/21	100	B.15s ...		50	25±1	76±5	34.5±2	100/115	12 9b
A1/21	100	B.15s ...		50	25±1	76±5	34.5±2	20	13 9b
A1/21	100	B.15s ...		50	25±1	76±5	34.5±2	12	13 9
A1/121	100	B.15d ...		50	25±1	76±5	34.5±2	20	13 9b
A1/22	100	E.14/23×15		50	25±1	80±5	45±5	100/115	12 9b
A1/23	100	E.27/25 ...		50	25±1	128±7	75±5	12, 100/115 200/250 100, 110	11 9b
A1/4	100	P.28/25 ...	Solid Source	50	25±1	133±7	55.5±0.5		12 9b
A1/104	150	P.28/25 ...		50	32±1	133±7	55.5±0.5		16 6b
A1/26	200	B.15s ...		25	25±1	87±5	34.5±2	100	18 6
A1/25	200	B.15d ...		25	25±1	87±5	34.5±2	100	18 6
A1/82	200	B.15s/17		50	32±1	87±5	34.5±0.5	100, 115	18 6
A1/83	200	B.15d/17		50	32±1	87±5	34.5±0.5	100, 115	18 6
A1/27	200	P.15s ...		25	25±1	87±5	31.5±0.5	100, 110	19 6
A1/127	200	P.15d ...		25	25±1	87±5	31.5±0.5	100, 110	19 6
A1/28	200	E.14/23×15		25	25±1	90±5	43±3	100	18 6
A1/12	200	E.27/25	Central ...	50	32±2	128±7	75±5	50 110	23 0 18 6
A1/112	200	E.27/25 ...	Offset ...	50	32±2	128±7	75±5	50	23 0
A1/113	200	P.28/25 ...	Offset ...	50	32±2	133±7	55.5±0.5	50	24 0
A1/13	200	P.28/25 ...	Central ...	50	32±2	133±7	55.5±0.5	50 110	24 0 19 6
A1/14	250	E.27/25 ...	Central ...	50	32±2	128±7	75±5	50 100/115	23 0b 22 0
A1/16	250	E.27/25 ...	Offset ...	50	32±2	128±7	75±5	50	23 0b
A1/15	250	P.28/25 ...	Offset ...	50	32±2	133±7	55.5±0.5	50	24 0
A1/5	250	P.28/25 ...	Central ...	50	32±2	133±7	55.5±0.5	55 100, 110	24 0b 23 0b
A1/106	250	P.28/25 ...	Solid Source	50	32±2	133±7	55.5±0.5	12, 24	27 6
A1/38	300	P.15s ...		25	25±1	100±5	31.5±0.5	100, 115	28 6ab
A1/36	300	P.15d ...	C. Coil ...	25	25±1	100±5	31.5±0.5	100, 115	28 6ab
A1/37	300	B.15s ...		25	25±1	100±5	34.5±2	100, 115	27 6ab
A1/154	300	P.28/25 ...		50	32±2	133±7	55.5±0.5	210, 230, 240, 250	28 6b
A1/33	300	B.15d ...		25	25±1	100±5	34.5±2	100, 115	27 6ab
A1/35	300	E.27/25 ...		25	32±2	128±7	75±5	100/115	27 6ab
A1/6	300	P.28/25 ...		25	32±2	133±7	55.5±0.5	100, 110	28 6ab

- (a) Forced cooling is necessary so that no part of the wall of the bulb exceeds a temperature of 500°C.
- (b) These lamps may be supplied with tips black sprayed at no extra charge.

SCHEDULE B — (continued)

CLASS A1 — TUBULAR					BURNING POSITION : Vertical Cap Down				
Ref. No.	Watts	Caps Fully described on page 32	Filament	Average Life hr.	Dimensions			Voltage Range	PRICE
					Diameter mm.	Overall Length mm.	Light Centre Length mm.		
A1/109	400	P.28/25 ...	Solid Source	50	64±2	133±7	55.5±0.5	24	s. d.
A1/40	400	E.27/25 ...	Bi-plane ...	25	32±2	128±7	75±5	100/115	41 0
A1/39	400	P.28/25 ...	Bi-plane ...	25	32±2	133±7	55.5±0.5	100/115	34 0ab 35 0ab
A1/48	500	E.27/25 ...	Bi-plane ...	25	32±2	128±7	75±5	110, 115	36 0ab
A1/7	500	P.28/25 ...	Bi-plane ...	25	32±2	133±7	55.5±0.5	110	37 0ab
A1/42	500	E.27/25 ...		50	64±2	128±7	75±5	100/115, 200/250	26 6
A1/8	500	P.28/25 ...		50	64±2	133±7	55.5±0.5	100, 110	27 6
A1/43	500	E.40/45 ...		50	64±2	135±10	90±5	100/115, 200/250	26 6
A1/44	500	P.40/41 ...		50	64±2	140±10	50±0.5	110/115, 200/250	29 0
A1/54	750	E.27/25 ...	Bi-plane ...	25	38±2	128±7	75±5	110/115	41 6ab
A1/9	750	P.28/25 ...	Bi-plane ...	25	38±2	133±7	55.5±0.5	110	42 6ab
A1/89	750	E.40/45 ...		50	64±2	230±10	120±5	15	38 6
A1/90	750	P.40/41 ...		50	64±2	235±10	84±0.5	15	41 0
A1/111	900	E.40/45 ...	Flat Grid ...	50	64±2	230±10	120±5	24, 30	38 6
A1/60	1000	P.40/41 ...	Bi-plane ...	25	64±2	235±10	84±0.5	110	52 0
A1/58	1000	P.28/25 ...	Bi-plane ...	25	64±2	133±7	55.5±0.5	110	49 6
A1/11	1000	P.40/41 ...		50	64±2	235±10	84±0.5	100, 110	35 6
A1/57	1000	E.40/45 ...		50	64±2	230±10	120±5	100/115, 200/250	33 0

(a) Forced cooling is necessary so that no part of the wall of the bulb exceeds a temperature of 500°C.
 (b) These lamps may be supplied with tips black sprayed at no extra charge.

CLASS A3 — ROUND					BURNING POSITION : Horizontal				
Ref. No.	Watts	Caps Fully described on page 32	Average Life hr.	Dimensions			Voltage Range	PRICE	
				Diameter mm.	Overall Length mm.	Light Centre Length mm.			
A3/1	100	E.27/25 ...	300	70±2	115±10	95±5	110, 200/250	s. d. 11 9	
A3/2	250	E.27/35×30	300	90±2	160±10	120±5	110, 200/250	22 0	

CLASS E — EPIDIASCOPE — ROUND					BURNING POSITION : Any position within 45° of Cap Down				
Ref. No.	Watts	Caps Fully described on page 32	Average Life hr.	Dimensions			Voltage Range	PRICE	
				Diameter mm.	Overall Length mm.	Light Centre Length mm.			
E/3	500	E.27/30 ...	100	100±5	135±10	85±5	110, 200/250	30 3	
E/4	500	P.28/25 ...	100	95±5	130±10	55.5±0.5	110, 200/250	31 3	

CLASS FL — FLOODLIGHTING — TUBULAR					BURNING POSITION : Horizontal				
Ref. No.	Watts	Caps Fully described on page 32	Average Life hr.	Dimensions			Voltage Range	PRICE	
				Diameter mm.	Overall Length mm.	Light Centre Length mm.			
FL/1	500	E.40/45 ...	1000	90±2	355±10	—	115, 200/250	38 6	
FL/2	1000	E.40/45 ...	1000	90±2	390±10	—	115, 200/250	46 9	

LAMPS



SCHEDULE B — (continued)

CLASS F — MICRO-PROJECTION, Etc., ROUND							BURNING POSITION : Horizontal *	
Ref. No.	Watts	Caps Fully described on page 32	Average Life hr.	Dimensions			Voltage Range	PRICE
				Diameter mm.	Overall Length mm.	Light Centre Length mm.		
F/8	12	B.15/24 × 17	100	37 max.	57 ± 5	40 ± 3	12	s. d. 4 6
F/22	12	B.22/21 ...	100	37 max.	60 max.	34 ± 3	12	4 6
F/29	18	B.15d/17 ...	100†	25 ± 1	46 ± 2.5	28.5 ± 1.5	6	6 6c
F/24	24	E.27/25 ...	100	38 ± 2	57 ± 5	47 ± 5	6	4 0
F/10	24	E.14/23 × 15	100	38 ± 2	60 ± 5	50 ± 5	6, 12	4 0
F/11	24	E.14/23 × 15	100	38 ± 2	60 ± 5	41 ± 3	12	4 0
F/26	30	E.14/23 × 15	200	35 ± 2	65 ± 5	47 ± 5	6	6 6
F/25	30	E.27/35 × 30	25	35 ± 2	63 ± 5	53 ± 5	6	6 6
F/23	30	E.27/35 × 30	200	35 ± 2	63 ± 5	53 ± 5	6	6 6
F/42	48	P.28/25 ...	100	50 ± 2	75 ± 5	18.5 ± 0.5	12	6 0
F/7	48	E.14/23 × 15	100	40 ± 3	60 ± 5	41 ± 3	8	8 3
F/13	48	E.27/25 ...	100	50 ± 2	70 ± 5	38 ± 5	12	6 0
F/14	100	E.27/25 ...	100	60 ± 2	85 ± 5	55 ± 5	12	13 3
F/15	108	P.28/25 ...	50	32 ± 2	139 ± 7	65 ± 0.5	6	34 0d
F/16	108	E.27/25 ...	50	32 ± 2	135 ± 4	86 ± 3	6	33 0d
F/46	108	P.28/25 ...	50	32 ± 2	139 ± 7	65 ± 0.5	6	34 0d
F/47	108	E.27/25 ...	50	32 ± 2	135 ± 4	86 ± 3	6	33 0
F/48	108	P.28/25 ...	50	32 ± 2	133 ± 7	55.5 ± 0.5	6	34 0d
F/49	108	E.27/25 ...	50	32 ± 2	128 ± 7	75 ± 5	6	33 0d
F/50	108	P.28/25 ...	50	32 ± 2	133 ± 7	55.5 ± 0.5	6	34 0d
F/51	108	E.27/25 ...	50	32 ± 2	128 ± 7	75 ± 5	6	33 0d
(c) Transverse Filament.			(d) Ribbon Filament.			† at 6.5 volts.		* Normally.
CLASS G — EXCITER — TUBULAR								
	Amps.							s. d.
G/18	0.2	P.15s/19 ...	100	16 ± 1	57 ± 3	28.5 ± 0.5	7	6 0
G/2	0.75	B.15s/21 ...	50	25 ± 1	48 ± 3	32 ± 1.5	4	6 0
G/29	0.75	P.15s/19 ...	50	16 ± 1	57 ± 3	28.5 ± 0.5	4	7 0
G/16	1.0	B.15s/21 ...	100	25 ± 1	75 ± 3	41 ± 1	27	9 0
G/4	1.0	B.15s/17 ...	100	18 ± 1	40 ± 2	21.5 ± 0.5	6	6 0b
G/5	1.0	P.15s/19 ...	100	16 ± 1	57 ± 3	28.5 ± 0.5	6	6 0b
G/6	2.0	B.15s/21 ...	100	25 ± 1	75 ± 3	44 ± 1	8	6 0
G/20	3.8	E.27/25 ...	100	32 ± 2	80 ± 5	64 ± 3	8	7 6b
G/21	3.8	B.20d (Bosch)	100	32 ± 2	84 ± 5	51 ± 3	8	8 6
G/8	4.0	B.15s/21 ...	100	25 ± 1	75 ± 3	44 ± 1	8	6 0
G/9	4.0	B.15s/21 ...	100	25 ± 1	75 ± 3	44 ± 1	8.5	6 0
G/11	5.0	B.15s/21 ...	100	25 ± 1	75 ± 3	41 ± 1	10	8 0
G/12	5.0	B.15s/21 ...	100	25 ± 1	75 ± 3	44 ± 1	10	8 0
G/22	6.0	B.15s/21 ...	100	25 ± 2	49 ± 3	31.5 ± 1	4	6 6a
G/23	6.5	P.15s/19 ...	50	25 ± 1	75 ± 3	41 ± 0.5	5	8 0b
G/14	7.5	B.15s/21 ...	100	25 ± 1	75 ± 3	41 ± 1	10	8 0
G/15	7.5	B.15s/21 ...	100	25 ± 1	75 ± 3	44 ± 1	10	8 0
(a) Also B.15s/17 with liner.			(b) Axial Filament.					
CLASS S — STUDIO SPOTLIGHT — ROUND							BURNING POSITION : Cap Down	
	Watts							
S/3	500	Med. bi-post	100	95 ± 2	138	63.5	115, 230, 240	66 0
S/4	1000	Bi-post ...	100	152.5 ± 2	232 ± 6	127 ± 2	115, 210, 230/250	71 6
S/5	2000	E.40/45 ...	100	150 ± 2	220 ± 10	134 ± 5	115, 230/250	93 6
S/1	2000	Bi-post ...	100	152.5 ± 2	232 ± 6	127 ± 2	210, 230, 250	93 6
S/2	5000	Bi-post ...	100	203 ± 2	335 ± 6	165 ± 2	230, 250	300 0

SCHEDULE C

MISCELLANEOUS TYPES — TUBULAR											
Ref. No.	Watts	Caps Fully described on page 32	Filament	Average Life hr.	Burning Position	Dimensions			Voltage Range	PRICE	
						Dia. mm.	Overall Length mm.	Light Centre Length mm.			
F/21 A1/72	9.6 10	P.15s/19 ... S.10/20 × 13 and Pathé Lug ...	Axial ...	100	Any ...	18 ± 0.5	72 ± 3	31.5 ± 0.2	6.5	s. d. 12 9	
A1/130	10	E.14/23 × 15 ...	—	100	Cap Down	15 ± 1	57 ± 3	25 ± 0.5	20	4 9	
F/20	4.8	P.15s/19 ...	Axial ...	100	Any ...	15 ± 1	59 ± 3	38 approx	20	4 6	
F/27	72	E.27/25 ...	Axial ...	100	Cap Down	18 ± 0.5	72 ± 3	32	6	12 9	
A1/79	100	Pathé ...	Offset ...	50	Cap Down	32 ± 1	128 ± 7	75 ± 3	6	11 9	
						23 ± 1	93.5 ± 3	35 ± 0.5	80	11 9	
A1/156	100	B.20s & T piece...	—	25	—	25 ± 1	87 ± 3	30 ± 0.5	12	11 6	
A1/80	200	B.22/25 × 26 3-pin	Offset ...	25	Cap Up ...	32 ± 2	82 ± 3	51 ± 0.5	100	26 0a	
A1/81	200	Pathé ...	Offset ...	50	Cap Down	32 ± 2	133 ± 7	58 ± 0.5	110	19 6	
A1/105	200	E.27/35 × 30 Small Pathé Lug ...	Offset ...	50	—	32 ± 2	128 ± 7	75 ± 0.5	15	26 6	
A1/151	200	B.15s ...	Grid ...	50	—	25 ± 1	87 ± 5	34.5 ± 2	50	23 0	
A1/85	250	S.26s/25 B.H. 38...	—	50	Cap Down Vertical ...	32 ± 2	128 ± 7	59 ± 0.5	50	24 0b	
A1/86	300	S.26s/25 B.H. 46...	Bi-plane ...	25	—	32 ± 2	128 ± 7	59 ± 0.5	100/115	35 0a	
A1/87	400	S.26s/25 B.H. 38...	Bi-plane ...	25	Cap Down Vertical ...	32 ± 2	128 ± 7	59 ± 0.5	110	35 0ab	
A1/159	400	S.26s/25 B.H. 46...	Bi-plane ...	25	Cap Down Vertical ...	32 ± 2	128 ± 7	59 ± 0.5	110	35 0ab	
A1/108	400	E.27/35 × 30 Long Lug ...	Offset ...	50	—	38 ± 2	128 ± 7	75 ± 0.5	31	50 6	
A1/88	450	Special Prong ...	Twin Pillar ...	100	Cap Up ...	79 d } 30 e }	195	136	15	44 0g	
A1/153	500	E.27/35 × 30 & 3- fin ring ...	Bi-plane ...	25	—	38 max.	145 ± 8	81	115	38 0	
A1/102	500	Miniature Bi-post	Bi-plane Offset	25	Cap Down	38 ± 1	125 max.	81 ± 1	115	41 0a	
A1/46	500	B.22/25 × 26 3-pin	Bi-plane ...	25	Cap Up ...	38 max.	142 max.	95	100/110	37 0a	
A1/47	500	S.26s/25 B.H. 38...	Bi-plane ...	25	Cap Down	32 ± 2	128 ± 7	59 ± 0.5	110	37 0ab	
A1/160	500	S.26s/25 B.H. 46...	Bi-plane ...	25	Cap Down	32 ± 2	128 ± 7	59 ± 0.5	110	37 0ab	
A1/52	750	E.27/35 × 30 and 3-fin ring ...	Bi-plane ...	25	Cap Up ...	38 max.	145 ± 8	81	110, 115	43 6a	
A1/53	750	S.26s/25 B.H. 46...	Bi-plane ...	25	Cap Down	38 ± 2	128 ± 7	59 ± 0.5	100, 110	42 6ab	
A1/92	1000	S.26s/25 B.H. 46...	Bi-plane ...	25	Cap Down	38 ± 2	175	78	100	49 6	
A1/91	1000	S.26s/25 B.H. 46...	Bi-plane ...	25	Cap Down	38 ± 2	128 ± 7	59 ± 0.5	110, 115	49 6ab	
A1/59	1000	P.28/25 ...	Bi-plane ...	25	Cap Down	38 ± 2	133 ± 7	55.5 ± 0.5	110, 115	49 6ab	
FL/3	2000	P.40 & centralizing	—	—	Horizontal	90 ± 2	425	—	230	90 0	
H/1	2000	P.40/41 ...	Bi-plane ...	100	—	76 + 4 - 2	245 ± 10	84 ± 0.5	110, 220	93 6	

(a) Forced cooling is necessary so that no part of the wall of the bulb exceeds a temperature of 500°C.

(b) These lamps may be supplied with tip black sprayed at no extra charge.

(d) Dimension at top of bulb. (e) Dimension at bottom of bulb. (g) Special bulb.

GRAPHIC LAMPS



COLOUR TEMPERATURE LAMPS for Colour Photography

Watts	Caps	Colour Temp. $\pm 50^{\circ}\text{K}$	Average Life hrs.	Dimensions			Voltage Range	PRICE
				Dia. mm.	Overall Length mm.	Light Centre Length mm.		
275	B.22/25 \times 26 E.27/25 P.28/25	3200°K	10	65	117.5	—	230	s. d. 3 0
500		3200°K	10	80	160	—	230	7 6
500		3200°K	10	64 \pm 2	133 \pm 7	55.5 \pm 0.5	230	31 6
500	P.28/25 E.40/45	3350°K max.	10	64 \pm 2	133 \pm 7	55.5 \pm 0.5	115	31 6
1000		3200°K	15	150 \pm 1.5	300 \pm 9	225 \pm 8	230	25 3
2000	Bipost Bipost	3350°K max.	15	152.5 \pm 2	232 \pm 6	127 \pm 2	115	93 6
5000		3350°K max.	25	203 \pm 2	335 \pm 6	165 \pm 2	115	300 0

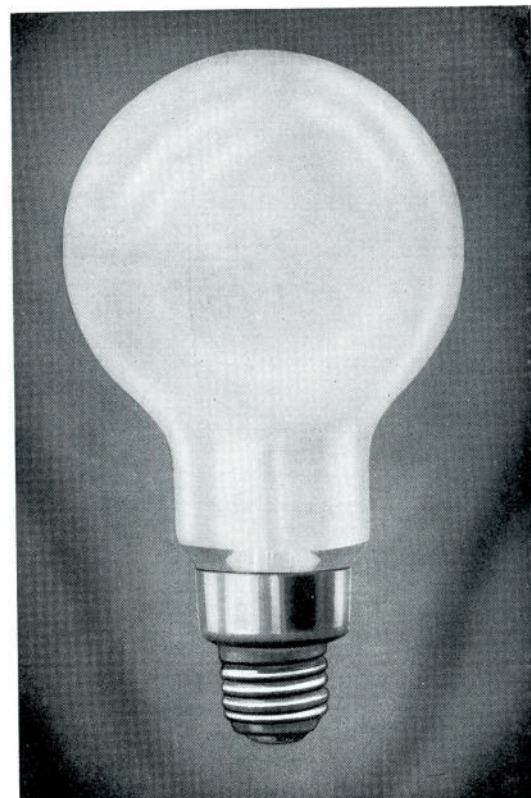
PHOTOFLOOD

Watts	Caps	Type Pearl (with fuse in cap)	Approx. Dimensions		PRICE
			Dia. mm.	Length mm.	
275	B.C., E.S.	2 hours life, No. 1	65	117.5	100/110, 200/250v. s. d. 2 6
500	E.S.†	10 hours life, No. 2	80	160	6 6
1000	G.E.S.	10 hours life, No. 4	110	233	16 6*

* 110v. only † Also supplied with a B.C. cap 200/250v.

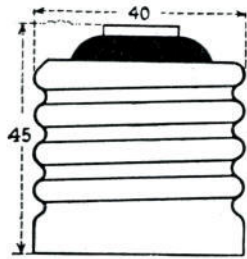
ENLARGER (Average Life, 100 hours)

Watts	Caps	Type	Approx. Dimensions			Voltage Range	PRICE
			Dia. mm.	Length mm.	L.C.L. mm.		
60	B.C., E.S.	White Sprayed	60	110	80	100/130 200/260	s. d. 2 4
150	B.C., E.S.	White Sprayed or inside silica coated marked 'photo enlarger'	65	117	—	110, 210 230, 240 250	3 9
400	E.S.	Clear Pear Shape	110	253	178	110, 210 230, 250	27 6
500	E.S.	2" spot frosted	90	178	125	110, 210	22 0
		Pearl Club ... Round ...	100	175	125	230, 250	

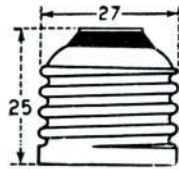


Enlarger

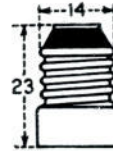
CAPS



G.E.S.
E.40/45



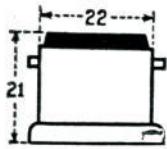
E.S.
E.27/25



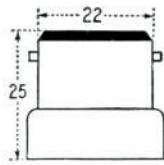
S.E.S.
E.14/23 x 15



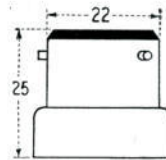
M.E.S.
E.10/13



B.C.
B.22/21 x 26



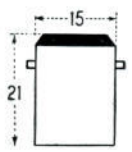
B.C.
B.22/25 x 26



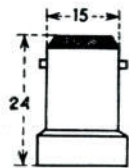
B.C. 3-pin
B.22/25 x 26



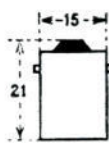
B.C.
B.22/21



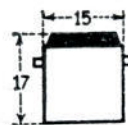
S.B.C.
B.A.15d/21



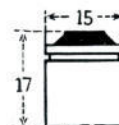
S.B.C.
B.15/24 x 18



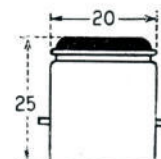
S.C.C.
B.15s/21



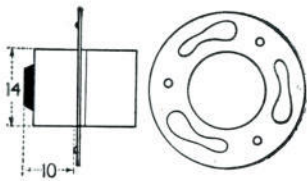
S.B.C.
B.15d/17



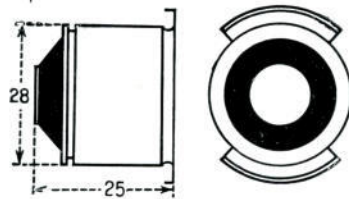
D.E. Tubular
S.15s



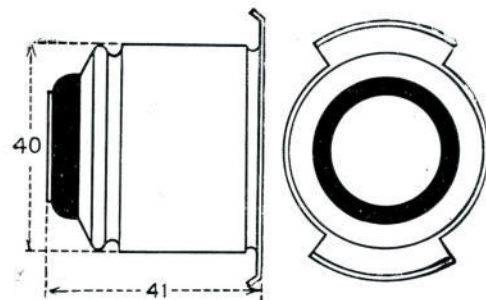
Bosch
B.A.20d



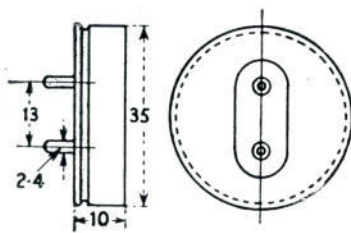
Small Prefocus
P.15s



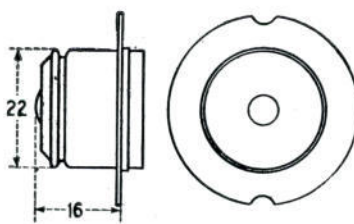
Medium Prefocus
P.28/25



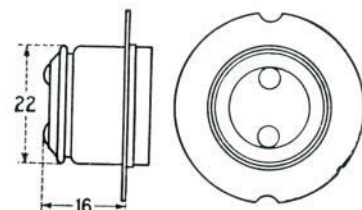
Large Prefocus
P.40/41



Fluorescent Tubular
Bi-pin



P.22s/21



P.22d/21

Approximate Dimensions in millimetres.

METROPOLITAN-VICKERS ELECTRICAL CO. LTD.

LAMP AND LIGHTING DEPARTMENT

TOWN	ADDRESS	TELEPHONE
BIRMINGHAM LEICESTER STOKE-ON-TRENT	26/28 Holloway Head, 1 70 Church Gate Stoke Road	Midland 3842/44 59413 48639
CARDIFF BRISTOL PLYMOUTH SWANSEA	" Mervyn " House, Frederick Street... .. 22 Victoria Street 46 Union Street, Stonehouse " Metrovick " House, 63 Wind Street	Cardiff 28511/4 22161/2 61472 Central 4336
GLASGOW EDINBURGH	"Metrovick" House, 74 Waterloo Street, C.2 78/80 Hanover Street, 2	City 6141/4 6784
LONDON * IPSWICH SOUTHAMPTON	132/135 Long Acre, W.C.2 14 Northgate Street 2 Oxford Street	TEM. 3444 3941 76649
MANCHESTER BELFAST LIVERPOOL	4 Whitworth Street, 1... .. 19 Ormeau Avenue 58/62 Paradise Street, 1	Deansgate 5031/3 24936 Royal 6876/7
NEWCASTLE-ON-TYNE WORKINGTON STOCKTON-ON-TEES (Co. Durham)	"Metrovick" House, Northumberland Road, 1 Victoria Buildings, 38 South William Street 26 Tennant Street	Newcastle 26060/2 795 66302
SHEFFIELD Stores LEEDS NOTTINGHAM	" Halifax " House, Surrey Street, 1 72 Arundel Street, 1 15 Wellington Street, 1 24 Stoney Street	23114/5 20444/5 44094/5

Telegraphic Address for all District Offices is "Multiphase", with name of Town and postal district number except * which is "Metviclamp, Rand, London"

HEAD OFFICE ADDRESS

St. Paul's Corner, 1/3 St. Paul's Churchyard, LONDON, E.C.4

Telegrams : " MULTIPHASE, CENT. LONDON "

Telephone : CITY 5757



Your nearest METROVICK Office :—

SHEFFIELD	-	-	“ Halifax ” House, Surrey Street, I	23114/5
Stores	-	-	72 Arundel Street, I	
LEEDS	-	-	15 Wellington Street, I	20444/5
NOTTINGHAM	-	-	24 Stoney Street	44094/5