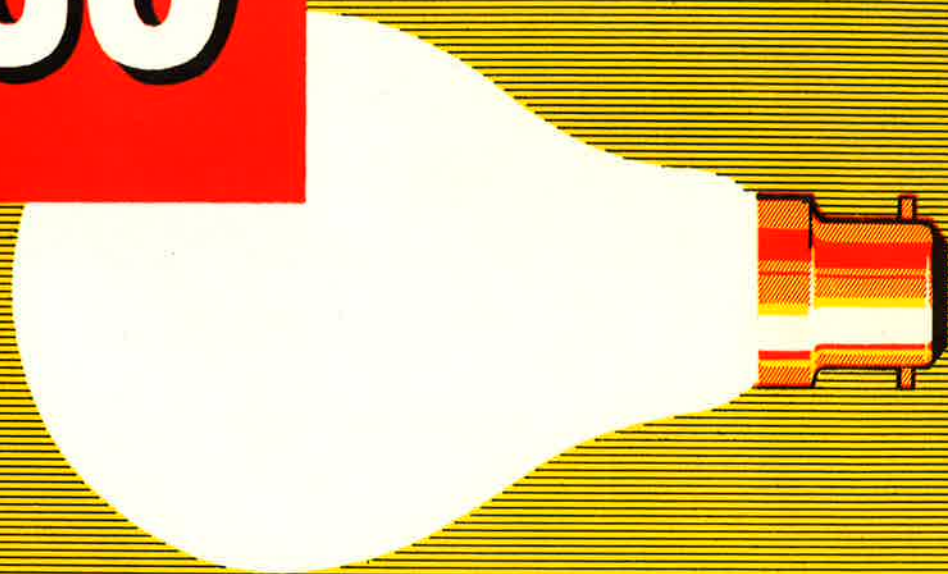


EKCO




LAMPS and TUBES

ISSUED SEPT 1956

PRICE LIST AND CATALOGUE

EKCO-ENSIGN

products include

- ★ Tungsten Filament Lamps of all Types
- ★ Mercury and Sodium Discharge Lamps
- ★  Fluorescent Tubes
- ★ Fluorescent Lighting Fittings
- ★ Control Gear and Accessories
- ★ Tungsten Lamp Industrial and Commercial Lighting Fittings

Detailed information and literature available on request from any of the addresses below

EKCO-ENSIGN ELECTRIC LTD., 45 ESSEX STREET, STRAND, LONDON, W.C.2

Phone: CITY 8951

Grams: EKCOLIGHT, ESTRAND, LONDON

Cables: EKCOLIGHT, LONDON

Sales Offices, Illuminating Engineering Departments, Showrooms and Depots:

SOUTHERN: (Sales Office, Illuminating Engineering Dept. and Showroom) 45 Essex Street, Strand, London, W.C.2
(Stores, Service Dept. and Trade Counter) Fawe Street, Morris Road, Poplar, London, E.14.

Tel: City 8951
Tel: East 2090

NORTHERN: Blackett Street, Manchester, 12

Tel: Ardwick 4661

SCOTTISH: 26 India Street, Glasgow, C.2.

Tel: Central 2012

SOUTH WALES: 50 Bridge Street, Cardiff.

Tel: Cardiff 33803

MIDLANDS: 68 Caroline Street, Birmingham, 3.

Tel: Central 2997

EAST MIDLANDS: 57 Hounds Gate, Nottingham. Tel: Nottingham 45862

WORKS at PRESTON, ENFIELD, EDMONTON, TOTTENHAM, ACTON, MERTHYR TYDFIL AND SPENNYMOOR

Issued September 1956

EKCO LAMPS CATALOGUE

CONTENTS

	<i>Page</i>		<i>Page</i>
General Service, Coiled Coil, Economy and Theatre Batten Lamps	2	Series Traction Lamps – Tramcar and Train ..	13
Silverlight and Softlight Lamps	3	Rough Service and Traffic Signal Lamps	14
Coloured, Bowl Frosted and Daylight Lamps ..	4	Projector Lamps – Classes A1, B1, B2, E, F, FL, & G	15-20
General Service Lamp Data	5	Photoflood and Enlarging Lamps	21
Joylights and Decoration Lights	6	Cycle Dynamo Lamps	22
Candle Lamps	7	Flash Lamps and Radio Panel Lamps	23
Neon Lamps	8	Car Bulbs	24-26
Sign, Pygmy Sign and Switchboard Indicator Lamps	9	Telephone Switchboard Indicator Lamps	27
Spotlight and Floodlight Reflector Lamps ..	10	Sodium Lamps	28
Tubular Lamps – Single and Double Cap	11	Mercury Lamps	29
Traction Lamps – Bus, Coach, Yacht, Train and Trolley Bus	12	Fluorescent Tubes	30, 31
		General Information and Purchase Tax Schedule ..	32

B.S.I. Licence for EKCO Tungsten Filament Lamps

All Ekco lamp factories are licensed to manufacture general service tungsten filament lamps under the British Standard Institution's Certification Scheme.

The Institution is satisfied that the quality control arrangements in each factory ensure that lamps meet the requirements of British Standard 161 – 1956. Independent tests undertaken at the National Physical Laboratory also maintain a constant check on the quality of Ekco lamp production.

EKCO

GENERAL SERVICE LAMPS



SINGLE COIL LAMPS

List Prices

Group I Wattage	200, 210, 220, 230, 240, 250, 260 volts*		100, 110, 115, 120, 130 volts*		6, 12, 25, 35, 50, 55, 60, 65, 75, 150 volts*	
	Clear	Pearl	Clear	Pearl	Clear	Pearl
15 or 25	1/6½	1/6½	1/6½	1/6½	1/11	1/11
40 or 60	1/4½	1/4½	1/6½	1/6½	2/3	2/3
75	1/10	1/10	2/-	2/-	3/-	3/-
100	1/10	1/10	2/-	2/-	3/3	3/3
150	2/7	2/7	2/9	2/9	5/-	5/-
200	3/9	3/9	4/3	4/3	7/6	7/6
300	7/6	8/6	8/-	9/-	11/-	12/-
500	10/-	11/-	10/6	11/6	14/-	—
750	14/6	16/-	14/6	16/-	19/-	—
1000	16/-	—	16/-	*See 'Voltage Ranges', page 5		
1500	22/6	—	22/6			

ECONOMY LAMP

This lamp is suitable for locations where a small amount of light is required, such as in children's or in invalids' bedrooms. It can also be used in such situations as landings and stairways. Its current consumption is exceedingly small and its life is several thousand hours.

Group I		List Price 1/8
Standard Voltage	200/250	
Wattage	5-8 according to applied voltage	
Bulb (Pearl only)	55 mm. (2 3/16 in.) diameter	
Cap	B.C.	

COILED COIL LAMPS

Group I	Standard Voltages: 200, 210, 220, 230, 240, 250, 260 - B.C. Pearl bulbs only			
Wattage	40w.	60w.	75w.	100w.
List Price	1/9	1/9	2/1½	2/1½

THEATRE BATTEN LAMPS

(Samiloff Type)

Group I			
Wattage	60	100	150
List Price	2/6	2/9	5/-
Standard Voltages: 100, 110, 120, 130, 200, 210, 220, 230, 240, 250			
Dimensions for all sizes: Length: 137 mm. (5 3/8 in.). Diam: 75 mm. (2 11/16 in.) Light centre length: 120 mm. (4 3/4 in.) Standard cap - B.C. (B22d/25 x 26)			

EKCO

SILVERLIGHT & SOFTLIGHT LAMPS



SILVERLIGHT LAMPS

A lamp with an internal silica coating, giving maximum diffusion with minimum loss of light. Eminently suitable for domestic interiors and all places where a soft diffused shadowfree light is required.

Standard Voltages: 200, 210, 220, 230 240, 250, 260.

Dimensions as General Service Lamps.

Group 1					
Wattage	40	60	100	150	200
Cap	B.C.	B.C.	B.C.	B.C.	E.S.
List Price	1/7½	1/7½	2/1	3/1	4/3

Coloured lamps with an internal silica coating are available in 200/220, 230/240, 250/260 volts 15w. and 25w. sizes (both bulbs 55 mm. dia.) in colours as given on page 4.

List Price 1/8½



SOFTLIGHT LAMPS

A soft toned lamp for use in the home and all other locations where a restful atmosphere is needed.

Standard Voltages 200/220, 230/240, 250/260

Dimensions as general service lamps.

Group 1			
Wattage	60	100	150
Cap	B.C.	B.C.	B.C.
List Price	1/7½	2/1	3/1

DIMENSIONS AND DATA FOR GENERAL SERVICE LAMPS ARE GIVEN ON PAGE FIVE

EKCO

COLOURED, BOWL FROSTED AND DAYLIGHT LAMPS



Colour Sprayed and
Bowl Frosted Lamps

COLOUR SPRAYED

Group 1

Blue, Flame, Green, Orange, Pink, Red,
White and Yellow

Cost for Colour Spraying extra to the Clear Lamp
List Prices which are shown on page 2

5/25w.	40/75w.	100w.	150w.
2d.	3d.	4d.	9d.
200w.	300w.	500w.	750w.
1/6	1/9	2/3	2/6

BOWL FROSTED

Group 1

Cost for Bowl Frosting extra to the Clear Lamp List Prices
which are shown on page 2

200w.	300w.	500w.	750w.	1000w.	1500w.
1/-	1/3	1/6	1/9	2/6	2/6

NATURAL COLOURED GLASS

Dimensions as general service lamps.

Cap - B.C. (B22d/25×26)

Standard voltages - 100, 110, 120, 130, 200, 210, 220, 230,
240, 250, 260

Group 1	List Price			
Wattage	Ruby	Green	Amber	Blue
15 25	6/6	4/-	3/6	3/-
40 60	6/6	3/9	3/3	2/9
100	8/-	4/9	4/-	3/3

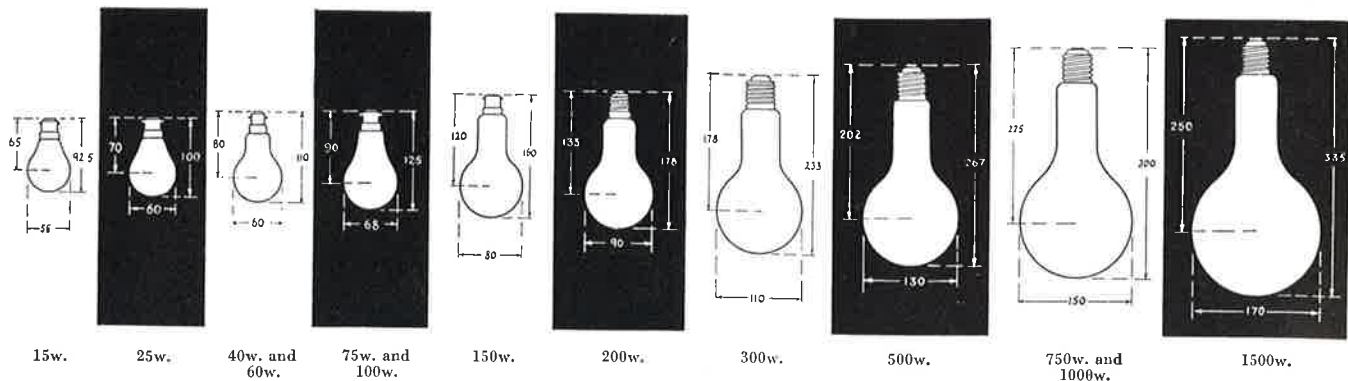
DAYLIGHT LAMPS

Dimensions as general service lamps. The blue glass bulb filters the excess of red in the normal tungsten lamp. The colour of the light approximates to the north sky daylight and is helpful for colour grading. To compensate for the absorption by the blue glass, about double the wattage, which would be required with clear or pearl lamps, should be employed.

Group 1	Standard Voltages: 100, 110, 120, 130, 200, 210, 220, 230, 240, 250, 260									
Wattage	15/25	40	60	75	100	150	200	300	500	
†Standard cap	B.C.	B.C.	B.C.	B.C.	B.C.	B.C. or E.S.	E.S.	G.E.S.	G.E.S.	
List Price	2/8	2/5	2/5	3/3	3/6	5/-	7/9	12/-	15/6	

† B.C. (B22d/25×26), E.S. (E27/25), G.E.S. (E40/45).

DIMENSIONAL OUTLINES OF GENERAL SERVICE LAMPS



GENERAL SERVICE LAMP DATA

LIGHT OUTPUT

Nominal average lumens throughout life at 240v.*

Wattage	25	40	60	75	100	150	200	300	500	750	1000	1500
Single Coil	200	325	575	780	1160	1960	2720	4300	7700	12400	17300	27500
Coiled Coil	—	390	665	880	1260	—	—	—	—	—	—	—

* These values are intended only to afford a practical guidance for the design of lighting installations. Specific values will be found in the current issue of British Standard 161 - 1956

VOLTAGE RANGES

All general service lamps are available in the standard voltages given at the top of the price list between the limits shown on page 2, except coiled coil silverlight and softlight lamps which are made only for 200-260v. The lamps should preferably be used in the cap-up position, particularly in the larger sizes.

Wattage	15	25	40	60	75	100	150
Standard Voltages	6-260	6-260	6-260	12-260	25-260	35-260	35-260
Wattage	200	300	500	750	1000	1500	
Standard Voltages	60-260	60-260	60-260	60-260	100-260	100-260	

DIMENSIONS

Wattage	Standard Cap†	Overall Length		Bulb Diameter		Light Centre Length*		Neck Diameter	
		mm.	in.	mm.	in.	mm.	in.	mm.	in.
15	B.C.	92.5 ± 3.5	3 5/8	55 ± 1	2 1/8	65 ± 3	2 1/2	—	—
25	B.C.	100 ± 3.5	3 15/16	60 ± 1	2 3/8	70 ± 3	2 3/4	44 max.	1 3/4
40 & 60	B.C.	110 ± 3.5	4 5/16	60 ± 1	2 3/8	80 ± 3	3 1/8	44 max.	1 3/4
75 & 100	B.C.	125 ± 3.5	4 7/8	68 ± 1	2 11/16	90 ± 3	3 1/2	51 max.	2
150	B.C.	160 ± 4.5	6 1/4	80 ± 1	3 1/8	120 ± 4	4 3/4	39 ± 1	1 1/2
200	E.S.	173 ± 5.5	6 13/16	80 ± 1	3 1/8	133 ± 5	5 1/4	39 ± 1	1 1/2
300	G.E.S.	233 ± 7	9 1/8	110 ± 1.5	4 3/16	178 ± 6	7	50 ± 1	1 15/16
500	G.E.S.	267 ± 8	10 1/2	130 ± 1.5	5 1/8	202 ± 7	7 15/16	52 ± 1	2
750	G.E.S.	300 ± 9	11 3/4	150 ± 1.5	5 7/8	225 ± 8	8 7/8	55 ± 1	2 3/16
1000	G.E.S.	300 ± 9	11 3/4	150 ± 1.5	5 7/8	225 ± 8	8 7/8	55 ± 1	2 3/16
1500	G.E.S.	335 ± 9	13 1/4	170 ± 1.5	6 11/16	250 ± 8	9 13/16	60 ± 1	2 3/8

* In the case of Pearl lamps, the tolerance on light centre length for 15w. to 100w. inclusive is ± 5 mm.

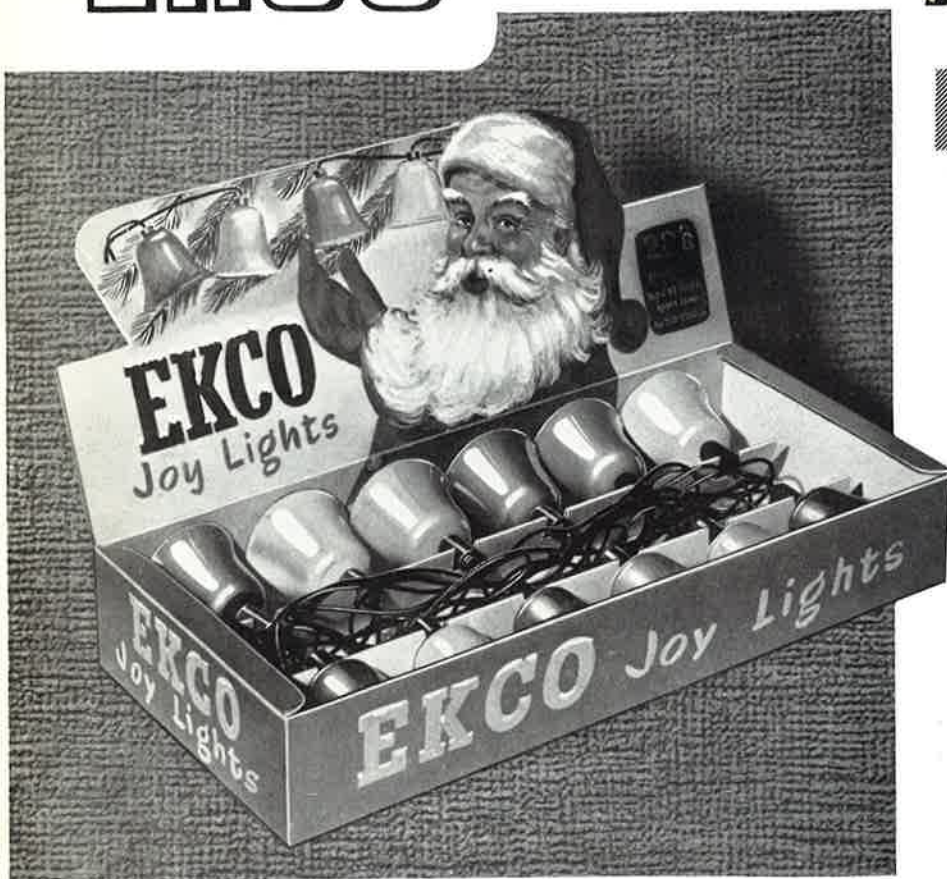
† B.C. (B22d/25 × 26), E.S. (E27/25), G.E.S. (E40/45).

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

EKCO

JOYLIGHTS AND

DECORATION LIGHTS



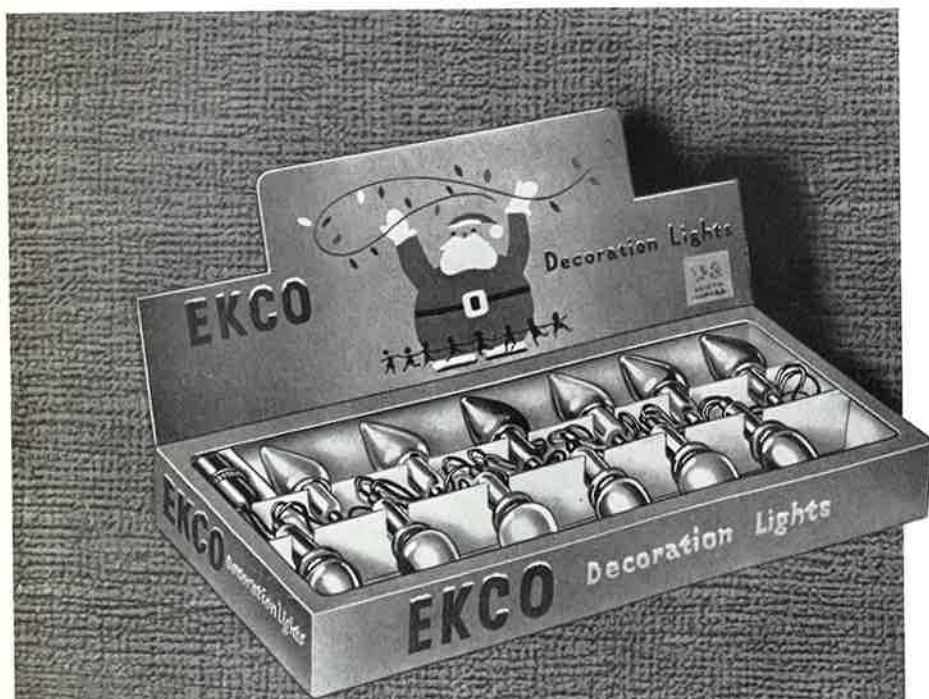
JOYLIGHTS

Group VI

Comprising a set of 12 shades and 13 3-watt lamps (1 spare lamp per set) wired in series for 200/250 volts, with B.C. plastic adaptor.

25/- per set plus 5/1½d. purchase tax.

Spare lamps 1/- each plus 2½d. purchase tax



DECORATION LIGHTS

Group VI

Comprising a set of 12 3-watt lamps (plus 1 spare lamp per set) wired in series for 200/250 volts, with B.C. plastic adaptor.

17/1d. per set plus 3/6d. purchase tax.

Spare lamps 1/- each plus 2½d. purchase tax

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

EKCO

CANDLE LAMPS

CANDLE LAMPS

Standard Voltages:

100, 110, 120, 130, 200/220, 230/240, 250/260

Standard caps:

B.C., S.B.C., S.E.S.

Watt- age	Group I Shape	Length		Diam.		List Price	
		mm.	in.	mm.	in.	Clear	Colour Sprayed or Frosted
*25	Olive, plain	115±5	4½	38±2	1½	2/6	3/-
25	Olive, twisted	115±5	4½	38±2	1½	3/-	3/6
40 & 60	Olive, plain	125±5	5	46±2	1⅞	3/-	3/6
40 & 60	Olive, twisted	125±5	5	46±2	1⅞	3/6	4/-

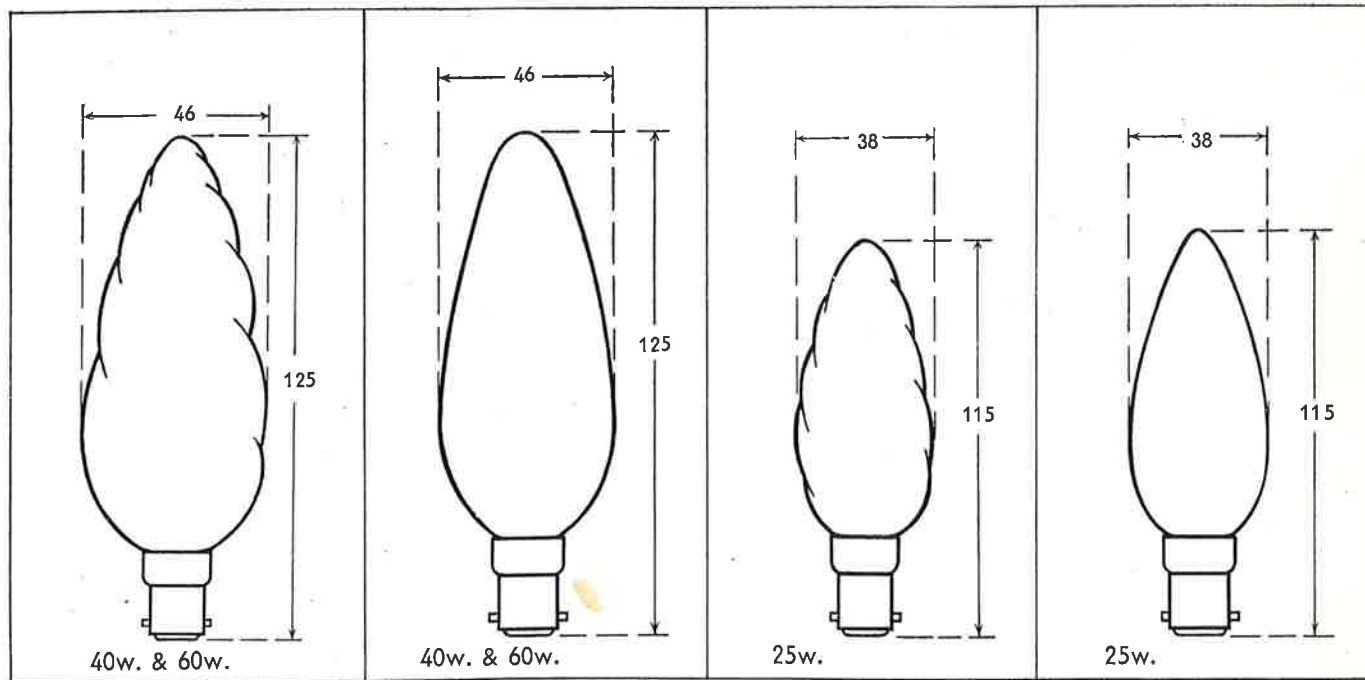
Candle Plain



Candle Twisted



* Also available 50v. and 60-80v. Clear 4/9. Colour Sprayed and Frosted 4/11



Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

page seven

EKCO

NEON LAMPS

NEON LAMPS

Standard Voltages:

100/130, 200/260

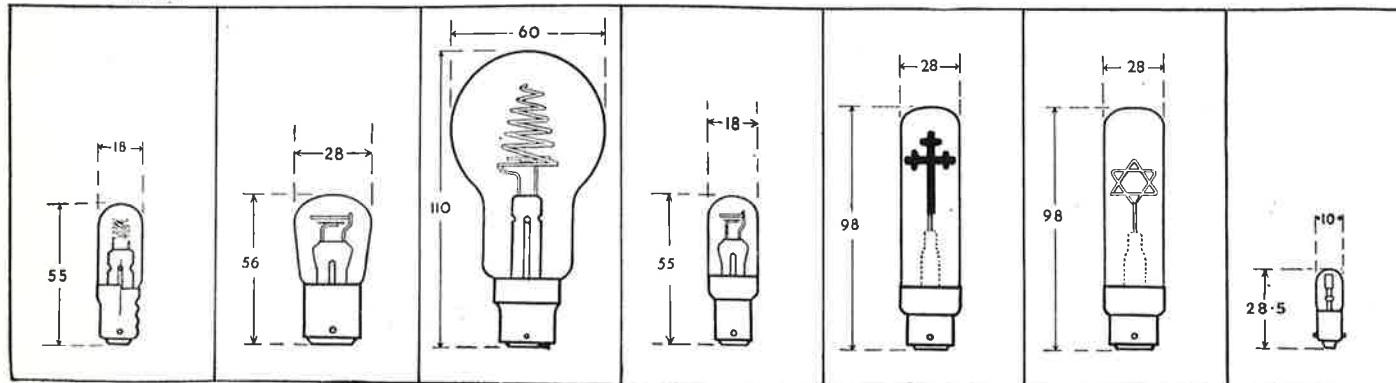
For use on A.C. or D.C.

The Ekco Neon Lamp has a long life and can be operated in any position.



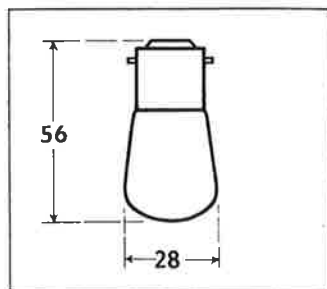
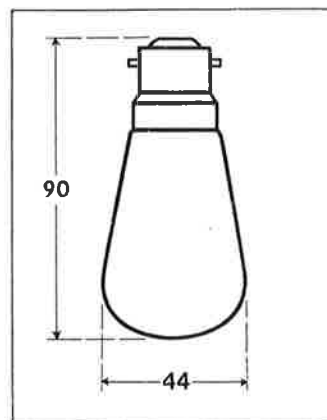
Group I		Wattage	Standard Cap	Dimensions				List Price
Type				Length		Diameter		
				mm.	in.	mm.	in.	
Cruciform (Red Lacquered)		1.0	B.C. (B22d/25 × 26)	98 ± 2	3 ⁷ / ₈	28 ± 1	1 ¹ / ₈	5/-
Star of David (Red Lacquered)		1.0	B.C. (B22d/25 × 26)	98 ± 2	3 ⁷ / ₈	28 ± 1	1 ¹ / ₈	5/-
Normal Lighting		5.0	B.C. (B22d/25 × 26)	115 ± 5	4 ¹ / ₂	60 ± 1	2 ³ / ₈	4/6
Indicators	Large Disc	0.5	B.C. (B22d/22)	56 ± 3	2 ³ / ₁₆	28 ± 1	1 ¹ / ₈	4/-
			E.S. (E27/25)	58 ± 4	2 ⁵ / ₁₆	28 ± 1	1 ¹ / ₈	
	Small Spiral	0.5	S.B.C. (B15/24 × 17)	54 ± 3	2 ¹ / ₈	18 ± 1	¹¹ / ₁₆	4/-
			S.E.S. (E14/25 × 17)	56 ± 4	2 ³ / ₁₆	18 ± 1	¹¹ / ₁₆	
	Small Disc	0.5	S.B.C. (B15/24 × 17)	54 ± 3	2 ¹ / ₈	18 ± 1	¹¹ / ₁₆	4/-
			S.E.S. (E14/25 × 17)	56 ± 4	2 ³ / ₁₆	18 ± 1	¹¹ / ₁₆	
Indicator—Miniature*		—	M.B.C. (BA9s/13)	28.5 ± 1.5	1 ¹ / ₈	10 ± 1	¹³ / ₃₂	4/-

* For use on 200/260v. supplies must be in series with one megohm resistor.



EKCO

SIGN, PYGMY SIGN, and SWITCHBOARD INDICATOR LAMPS



PYGMY SIGN LAMPS

15 w.

* Natural coloured glass pygmy sign lamps are supplied to order. They are not normally held in stock.

Group I Standard Cap	Overall Length of Lamps	
	mm.	in.
B.C.	56 ± 3	2 ¹ / ₁₆
E.S.	58 ± 3	2 ¹ / ₄
S.B.C.	62 ± 3	2 ⁷ / ₁₆
S.E.S.	64 ± 3	2 ¹ / ₂

Type	25, 50, 60, 65, 75, 150 volts	110, 130, 200/220, 230/240 250/260 volts
	List Price	
Clear	2/5	1/10
Colour Sprayed	2/7	2/-
*Natural ruby glass	6/-	5/6
*Natural green glass	5/3	4/9
*Natural amber glass	5/3	4/9
*Natural blue glass	5/-	4/6

SWITCHBOARD INDICATOR LAMPS

These lamps are similar in all respects to B.C. Pygmy Sign lamps except that they have a life of several thousand hours. The nominal wattage is 15, but this will vary according to voltage. The lamps are marked 'Switchboard Indicator'.

Voltage	List Price	
	Clear	Colour Sprayed
100/130	2/3	2/5
200/260	2/3	2/5

Standard cap - B.C.

SIGN LAMPS

15 w.

Standard voltages 100/110, 120/130, 200/220, 230/240, 250/260.

Diam. 44 mm. Overall length 90 mm.

Standard Cap - B.C. or E.S.

Voltage	List Price	
	Clear	† Colour Sprayed
100/130	1/10	2/1
200/260	1/7	1/10

† Colour range as detailed on page 4.

EKCO

SPOTLIGHT AND FLOODLIGHT REFLECTOR LAMPS



Reflector Spotlight

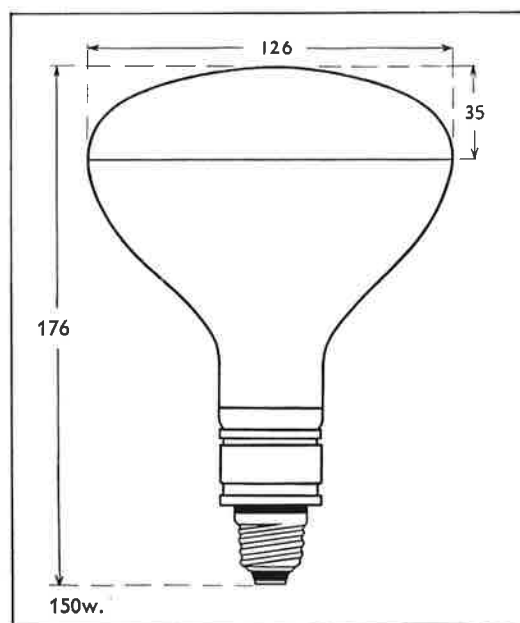
REFLECTOR LAMPS

These lamps are made in two types – a spotlight reflector lamp and a floodlight reflector lamp. They are designed primarily for use in shop lighting, in windows and in interiors, to pick out individual displays and features.

The upper part of the lamp has an interior metal coating which does not tarnish and which, therefore, maintains its efficiency throughout the life of the lamp, while the lower part has a satin frosted finish.

Standard Voltages: 110, 200, 210, 220, 230, 240, 250

Group I Type	Wattage	Cap	Length		Diameter		List Price
			mm.	in.	mm.	in.	
Spotlight	150	E.S.	176 ± 6.5	$6 \frac{13}{16}$	126 ± 1.5	$4 \frac{13}{16}$	15/6
Floodlight	150	E.S.	176 ± 6.5	$6 \frac{13}{16}$	126 ± 1.5	$4 \frac{13}{16}$	15/6
Spotlight	75	B.C.	129 ± 3	$5 \frac{1}{16}$	95 ± 1	$2 \frac{7}{16}$	7/-



Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

EKCO

TUBULAR LAMPS

DOUBLE CAP

Standard Voltages: 110, 120, 200/220, 230/240, 250/260.

Standard Cap – Single contact (S 15s)

Diameter for all sizes 25 ± 1 mm. (1 in.)

Colour spraying – standard colours as for clear lamps – see page 4

Group I Wattage	Length		List Price	
	mm.	in.	Clear	Colour Sprayed
30	221 ± 1	$8 \frac{11}{16}$	5/9	6/1
30	284 ± 1	$11 \frac{3}{16}$	5/9	6/1
60	221 ± 1	$8 \frac{11}{16}$	6/-	6/4
60	284 ± 1	$11 \frac{3}{16}$	6/-	6/4



Single and Double Cap
Tubular Lamps

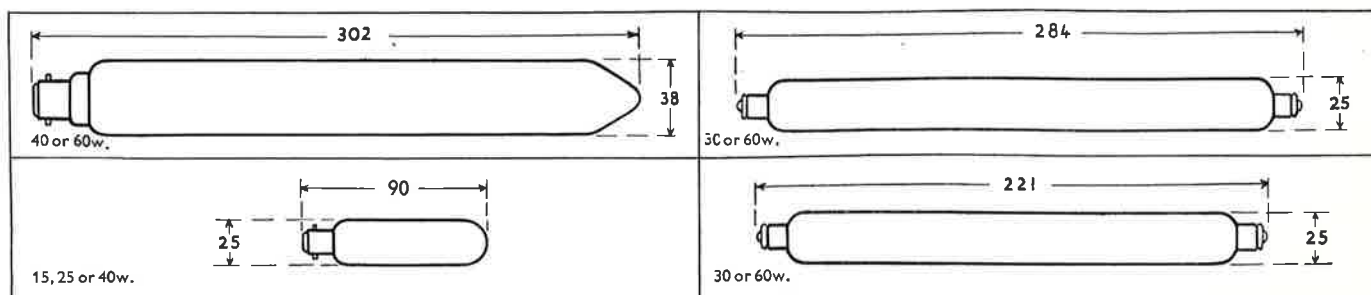
SINGLE CAP

Standard Voltages: 15w. and 25w.: 110, 120, 200/220, 230/240, 250/260. 40w. and 60w.: 200/220, 230/240, 250/260

Colour spraying – standard colours as for clear lamps – see page 4

Group I Wattage	Length		Diameter		Standard Cap	List Price
	mm.	in.	mm.	in.		
15, 25* or 40	90 ± 3	$3 \frac{5}{8}$	25 ± 1	1	B.C., S.B.C., E.S., S.E.S.	Clear 3/9 Colour Sprayed 4/-
40 or 60	302 ± 3	$11 \frac{7}{8}$	38 ± 1	$1 \frac{1}{2}$	B.C.	Opal 8/6 Opal Colour Sprayed 9/6

* 25w. lamp also available 25, 35, 50, 55, 60, 65, 75 and 150v. List Price 4/9 Clear. Colour Sprayed 5/-



Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

page eleven

EKCO

TRACTION LAMPS

BUS, COACH & YACHT

Standard Cap - B.C. or S.B.C.
Clear or Pearl



Clear and Pearl 50 mm Bus Lamps

TRAIN LIGHTING

Group I

Some of the lamps shown in the Bus, Coach and Yacht section above are suitable for Train Lighting.

Several other sizes of Train Lighting Lamps are available.

Details and prices on application.

TROLLEY BUS

Standard voltages: 30, 35, 40
Cap - B.C. Clear or Pearl

Group I	List Price		
	22 mm. bulb	38 mm. bulb	50 mm. bulb
Wattage			
6	2/6	2/6	2/6
15		2/9	2/9
20		3/-	3/-
36		4/-	4/-

Group II	Voltage	Wattage	List Price	
			38 mm. bulb	50 mm. bulb
	12	10	2/4	2/4
	12	12	2/-	2/4
	12	20	—	2/9
	12	24	—	2/11
	12	36	—	2/11
	24	12	2/1	2/1
	24	15	2/9	2/9
	24	20	2/4	2/9
	24	24	2/11	2/11
	24	36	2/11	2/11
	24	48	3/6	3/6
	24	60	5/10	5/10

TRACTION LAMPS

Group I

All traction lamps are designed to withstand voltage fluctuations and rough usage met under service conditions

Dimensions of all lamps listed on this page are as follows:

Diam. 22 mm.
($\frac{7}{8}$ in.)

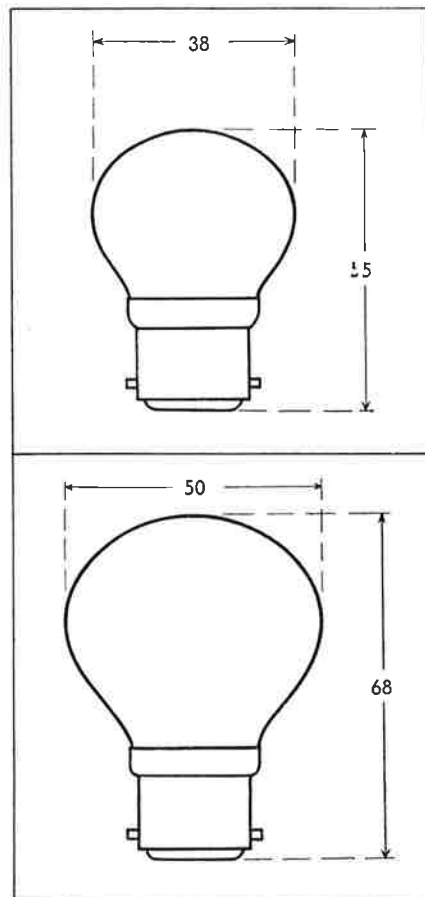
Overall length
37 mm. ($1\frac{1}{2}$ in.)

Diam. 40 mm.
($1\frac{5}{8}$ in.)

Overall length
55 mm. ($2\frac{1}{8}$ in.)

Diam. 50 mm.
($1\frac{11}{16}$ in.)

Overall length
68 mm. ($2\frac{11}{16}$ in.)



EKCO

SERIES TRACTION LAMPS

TRAMCARS, TRAINS

& SIMILAR LOCATIONS

Group I

These lamps are marked with their rated current and only those having the same current should be connected to each other in series.

Standard Voltages: 100, 110, 120, 130
Standard Cap — B.C., E.S.



Series Traction Lamps — Pearl and Clear

CLEAR OR PEARL

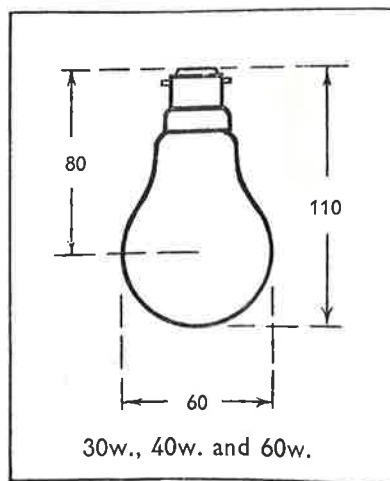
Current Amps	Nominal Wattage	Length		Diameter		List Price
		mm.	in.	mm.	in.	
0.27	30	110 ± 3.5	$4 \frac{5}{16}$	60 ± 1	$2 \frac{3}{8}$	1/9
0.35	40	110 ± 3.5	$4 \frac{5}{16}$	60 ± 1	$2 \frac{3}{8}$	1/9
0.52	60	110 ± 3.5	$4 \frac{5}{16}$	60 ± 1	$2 \frac{3}{8}$	1/9

TRACTION LAMPS

Group I

All traction lamps are designed to withstand voltage fluctuations and rough usage met under service conditions

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.



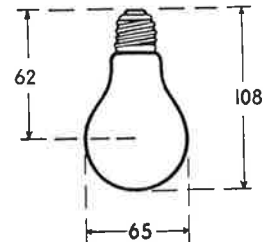
EKCO

ROUGH SERVICE AND TRAFFIC SIGNAL LAMPS

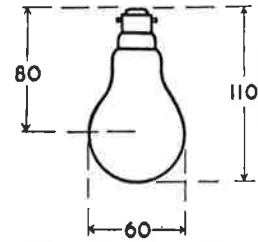
Rough Service—Gasfilled



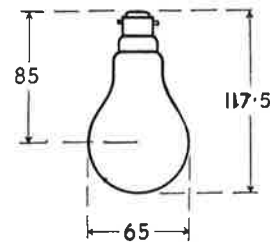
Rough Service—Vacuum



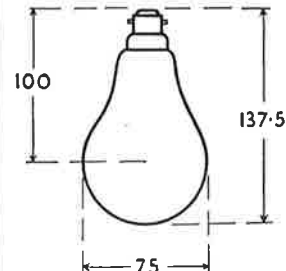
60w. E.S. Traffic Signal



30w., 40w. and 60w.
Rough Service



60w. B.C. Traffic Signal



100w. Rough Service

ROUGH SERVICE LAMPS

The Ekco Rough Service Lamp has the filament supported in a special manner to withstand vibration and other severe conditions. Standard Cap - B.C. or E.S. Clear or Pearl.

Special sizes and requirements made to order. Old type 60w. bulb to special order for government departments and similar bodies.

Group I Wattage	Type	Length		Diameter		List Price		
		mm.	in.	mm.	in.	25, 35, 50, 55, 60, 65, 75 and 150 volts	100, 110, 120, 130 volts	200, 210, 220, 230, 240, 250, 260 volts
25	Vacuum	100 ± 3.5	$3 \frac{15}{16}$	60 ± 1	$2 \frac{3}{8}$	2/9	2/-	2/-
30	Vacuum	110 ± 3.5	$4 \frac{5}{16}$	60 ± 1	$2 \frac{3}{8}$	2/9	1/9	—
40 and 60	Vacuum	110 ± 3.5	$4 \frac{5}{16}$	60 ± 1	$2 \frac{3}{8}$	2/9	2/-	2/-
100	Gasfilled	137.5 ± 3.5	$5 \frac{3}{8}$	75 ± 1	$2 \frac{11}{16}$	—	—	2/9

TRAFFIC SIGNAL LAMPS

For use in road traffic signals.

Standard Voltages:

100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230,
240, 250, 260 volts

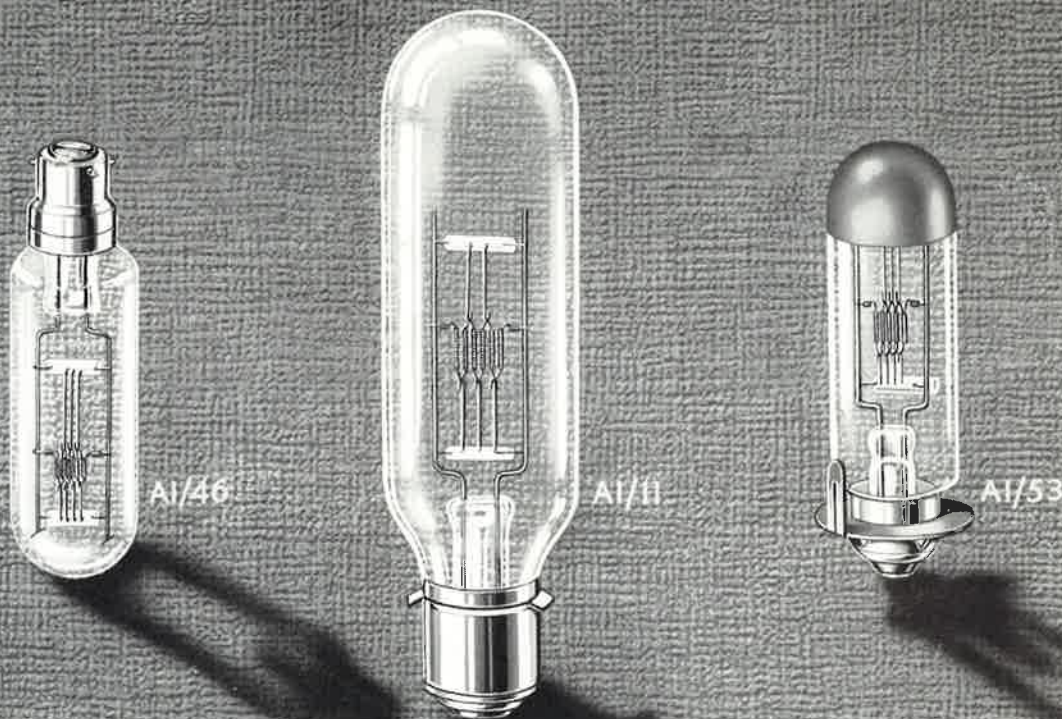
Clear bulbs only

Wattage	Length	Diameter	Light Centre Length	Stan- dard Cap	List Price
60	mm. 117.5 ± 3.5	mm. 65 ± 1	mm. 85 ± 3	B.C.	2/-
60	mm. 108 ± 3.5	mm. 65 ± 1	mm. 62 ± 3	E.S.	2/-

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

EKCO

PROJECTOR LAMPS — Class A1



Group I

The EKO Projector Lamp is a high efficiency, compact light source for use in film projectors. To obtain the best service from the lamp, the following points should be carefully noted:

- BURNING POSITION** MAKE SURE THE LAMP IS IN ITS CORRECT BURNING POSITION.
- SUPPLY VOLTAGE** CHECK THE LAMP SUPPLY VOLTAGE FREQUENTLY; a 1 per cent increase may reduce lamp life by 12 per cent.
- VIBRATION** MAKE SURE THE LAMP IS NOT SUBJECTED TO VIBRATION. The lamp filament becomes brittle and fragile with use.
- DO NOT MOVE THE LAMP UNTIL IT IS QUITE COLD. Movement when the lamp is hot may set up stresses in the lamp leading to failure at the next switching.
- COOLING** CHECK THE COOLING SYSTEM FREQUENTLY to ensure that there is no obstruction or deflection of the cooling air stream.
- SWITCHING ON** The use of a series resistor to permit gradual raising of the filament to full brightness is recommended. Elimination of the initial surge current (as much as eight times the running current) will prolong lamp life.
- LAMP RATING** In cases where screen illumination is higher than is necessary with a lamp of the specified voltage rating, increased life will be obtained by using a lamp of higher voltage, or by operating the lamp at a voltage below its rated value by adjustment of the resistor or transformer.

CLASS A1-TUBULAR BULB

Lamp Ref. No.	Wattage	Voltages	CAP		DIMENSIONS			Filament	Objective Average Life Hrs.	Nominal Efficiency Lumens per Watt	List Price
			Name	Number	Diam. mm.	Overall Length mm.	Light Centre Length mm.				
A1/72	10	20	Pathé	—	15 ± 1	57 ± 3	25 ± 0.5	Coiled Coil - Transverse	100	14	4/9
A1/1	25	50	Small bayonet centre contact	B15s/17	16 ± 1	57 ± 3	29 ± 2	Coiled Coil - Transverse	50	18	4/9
A1/19	50†	100, 110, 115	Small bayonet	BA15d	25 ± 1	76 ± 3	34.5 ± 2	Coiled Coil - Flat Grid - Vee Coil Sections	50	17	7/3
A1/20	50†	100, 110, 115	Small Edison screw	E14/23 × 15	25 ± 1	78 ± 3	43 ± 3	Coiled Coil - Flat Grid - Vee Coil Sections	50	17	7/3
A1/2	50†	100, 110, 115	Small bayonet centre contact	B15s/17	25 ± 1	76 ± 3	34.5 ± 2	Coiled Coil - Flat Grid - Vee Coil Sections	50	17	7/3
A1/2A	50	100, 110, 115	Small bayonet centre contact	B15s/17	25 ± 1	76 ± 3	34.5 ± 2	Coiled Coil - Flat Grid - Vee Coil Sections - offset	50	17	7/3
A1/3	100†	30	Medium Pre-focus	P28/25	25 ± 1	133 ± 7	55.5 ± 0.5	Flat Grid - Parallel Coil Sections - offset	50	23	12/9
A1/4	100†	12, 100, 110, 115, 200, 210, 220, 230, 240, 250	Medium Pre-focus	P28/25	25 ± 1	133 ± 7	55.5 ± 0.5	12v. - Flat Grid - Vee Coil Sections, 100/115v. - Coiled Coil - Flat Grid - Vee Coil Sections, 200/250v. - Coiled Coil - Flat Grid - Vee Coil Sections	50	12v.-24 100/115v. -17.5 200/250v. -15	12/9
A1/4N	100†	200, 210, 230, 240, 250	Small bayonet centre contact	B15s	25 ± 1	87 ± 5	34.5 ± 2	Coiled Coil - Flat Grid - Vee Coil Sections	50	17	12/9
A1/21	100†	100, 110, 115	Small bayonet centre contact	B15s	25 ± 1	76 ± 5	34.5 ± 2	Coiled Coil - Flat Grid - Vee Coil Sections	50	17	12/9
A1/22	100†	100, 110, 115	Small Edison screw	E14/23 × 15	25 ± 1	80 ± 5	45 ± 5	Coiled Coil - Flat Grid - Vee Coil Sections	50	17	12/9
A1/23	100†	12, 100, 110, 115, 200, 210, 220, 230, 240, 250	Edison screw	E27/25	25 ± 1	128 ± 7	75 ± 5	12v. - Flat Grid - Vee Coil Sections, 100/115v. - Coiled Coil - Flat Grid - Vee Coil Sections, 200/250v. - Coiled Coil - Flat Grid - Vee Coil Sections	50	12v.-24 100/115v. -18.5 200/250v. -16	11/9
A1/121	100†	100, 110, 115	Small bayonet	BA15d	25 ± 1	76 ± 5	34.5 ± 2	Coiled Coil - Flat Grid - Vee Coil Sections	50	17	12/9
A1/12	200†	50, 100, 110, 115	Edison screw	E27/25	32 ± 2	128 ± 7	75 ± 5	Flat Grid - Parallel Coil Sections	50	50v.-24 100/115v. -22	50v. 23/- 100/115v. 18/6
A1/13	200†	50, 100, 110, 115	Medium Pre-focus	P28/25	32 ± 2	133 ± 7	55.5 ± 0.5	Flat Grid - Parallel Coil Sections	50	50v.-24 100/115v. -22	50v. 24/- 100/115v. 19/6
A1/81	200	110	Pathé	—	32 ± 2	133 ± 7	58 ± 0.5	Coiled Coil - Twin Pillar - Parallel Coil Sections - offset	50	—	19/6
A1/112	200	50	Edison screw	E27/25	32 ± 2	128 ± 7	75 ± 5	Flat Grid - Parallel Coil Sections - offset	50	24	23/-
A1/113	200†	50	Medium Pre-focus	P28/25	32 ± 2	133 ± 7	55.5 ± 0.5	Flat Grid - Parallel Coil Sections - offset	50	24	24/-
A1/5	250†	50, 100, 110, 115, 200, 210, 220, 230, 240, 250	Medium Pre-focus	P28/25	32 ± 2	133 ± 7	55.5 ± 0.5	50v. - Flat Grid - Parallel Coil Sections, 100/115v. - Coiled Coil - Twin Pillar - Parallel Coil Sections, 200/250v. - Coiled Coil - Flat Grid - Vee Coil Sections	50	50v.-23.5 100/115v. -22.5 200/250v. -20	50v. 24/- 100v. and up 23/-
A1/14	250†	50, 100, 110, 115, 200, 210, 220, 230, 240, 250	Edison screw	E27/25	32 ± 2	128 ± 7	75 ± 5	50v. - Flat Grid - Parallel Coil Sections, 100/115v. - Coiled Coil - Twin Pillar - Parallel Coil Sections, 200/250v. - Flat Grid - Vee Coil Sections	50	50v. -25 100/115v. -24 200/250v. -20	50v. 23/- 100/250v. 22/-
A1/15	250†	50	Medium Pre-focus	P28/25	32 ± 2	133 ± 7	55.5 ± 0.5	Flat Grid - Parallel Coil Sections - offset	50	25	24/-
A1/16	250†	50	Edison screw	E27/25	32 ± 2	128 ± 7	75 ± 5	Flat Grid - Parallel Coil Sections - offset	50	25	23/-
A1/6	300*†	100, 110, 115	Medium Pre-focus	P28/25	32 ± 2	133 ± 7	55.5 ± 0.5	Coiled Coil - Twin Pillar - Parallel Coil Sections	25	25	28/6
A1/6HV	300*†	200, 210, 220, 230, 240, 250	Medium Pre-focus	P28/25	32 ± 2	133 ± 7	55.5 ± 0.5	Coiled Coil - Twin Pillar - Parallel Coil Sections	25	21	28/6
A1/35	300*†	100, 110, 115	Edison screw	E27/25	32 ± 2	128 ± 7	75 ± 5	Coiled Coil - Twin Pillar - Parallel Coil Sections	25	25	27/6

CLASS A1 - TUBULAR BULB (Continued)

Lamp Ref. No.	Wattage	Voltages	CAP		DIMENSIONS			Filament	Objective Average Life Hrs.	Nominal Efficiency Lumens per Watt	List Price
			Name	Number	Diam. mm.	Overall Length mm.	Light Centre Length mm.				
A1/86	300*†	100, 110, 115	Large Bell and Howell	B.H.46	32 ± 2	128 ± 7	59 ± 0.5	Bi-plane	25	22	35/-
A1/39	400*†	100, 110, 115	Medium Pre-focus	P28/25	32 ± 2	133 ± 7	55.5 ± 0.5	Bi-plane	25	23	35/-
A1/40	400*†	100, 110, 115	Edison screw	E27/25	32 ± 2	128 ± 7	75 ± 5	Bi-plane	25	23	34/-
A1/87	400*†	110, 115	Small Bell and Howell	B.H.38	32 ± 2	128 ± 7	59 ± 0.5	Bi-plane	25	23	35/-
A1/7	500*†	100, 110, 115	Medium Pre-focus	P28/25	32 ± 2	133 ± 7	55.5 ± 0.5	Bi-plane	25	25.5	37/6
A1/7HV	500*†	200, 210, 220, 230, 240, 250	Medium Pre-focus	P28/25	32 ± 2	133 ± 7	55.5 ± 0.5	Bi-plane	25	22.5	37/6
A1/8	500	100, 110, 115, 200, 210, 220, 230, 240, 250	Medium Pre-focus	P28/25	64 ± 1	133 ± 7	55.5 ± 0.5	100/115v. - Flat Grid - Vee Coil Sections. 200/250v. - Coiled Coil - Flat Grid - Vee Coil Sections	50	100/115v. -23 200/250v. -22.5	27/6
A1/42	500	100, 110, 115, 200, 210, 220, 230, 240, 250	Edison screw	E27/25	64 ± 2	128 ± 7	75 ± 5	100/115v. - Flat Grid - Vee Coil Sections. 200/250v. - Coiled Coil - Flat Grid - Vee Coil Sections	50	100/115v. -25 200/250v. -23	26/6
A1/43	500	100, 110, 115, 200, 210, 220, 230, 240, 250	Goliath Edison screw	E40/45	64 ± 2	135 ± 10	90 ± 5	100/115v. - Flat Grid - Vee Coil Sections. 200/250v. - Coiled Coil - Flat Grid - Vee Coil Sections	50	100/115v. -25 200/250v. -23	26/6
A1/44	500	100, 110, 115, 200, 210, 220, 230, 240, 250	Large Pre-focus	P40/41	64 ± 2	140 ± 10	50 ± 0.5	100/115v. - Flat Grid - Vee Coil Sections. 200/250v. - Coiled Coil - Flat Grid - Vee Coil Sections	50	100/115v. -25 200/250v. -23	29/-
A1/46	500*†	100, 110, 115	3 pin B.C.	B22 - 3 pin	37 ± 1	140 ± 2	95 ± 1	Bi-plane	25	25	37/-
A1/47	500*†	100, 110, 115, 210, 240, 250	Small Bell and Howell	B.H.38	32 ± 2	128 ± 7	59 ± 0.5	Bi-plane	25	24	37/-
A1/48	500*†	100, 110, 115	Edison screw	E27/25	32 ± 2	128 ± 7	75 ± 5	Bi-plane	25	24	36/-
A1/153	500	100, 110, 115	3 fin ring	—	38 max.	145 ± 8	81 ± 0.5	Bi-plane - offset	25	24	38/-
A1/160	500*†	100, 110, 115	Large Bell and Howell	B.H.46	32 ± 2	128 ± 7	59 ± 0.5	Bi-plane	25	24	37/-
A1/9	750*†	100, 110, 115	Medium Pre-focus	P28/25	38 ± 2	133 ± 7	55.5 ± 0.5	Bi-plane	25	26.75	42/6
A1/9HV	750*†	200, 210, 220, 230, 240, 250	Medium Pre-focus	P28/25	38 ± 2	133 ± 7	55.5 ± 0.5	Bi-plane	25	25	42/6
A1/52	750*†	100, 110, 115	3 lug ring	E27 - 3 fin	38 max.	145 ± 8	81 ± 0.5	Bi-plane	25	28	43/6
A1/53	750*†	100, 110, 115, 200, 210, 220, 230, 240, 250	Large Bell and Howell	B.H.46	38 ± 2	128 ± 7	59 ± 0.5	Bi-plane	25	28	42/6
A1/54	750*†	100, 110, 115, 200, 210, 220, 230, 240, 250	Edison screw	E27/25	38 ± 2	128 ± 7	75 ± 5	Bi-plane	25	28	41/6
A1/11	1000	100, 110, 115, 200, 210, 220, 230, 240, 250	Large Pre-focus	P40/41	64 ± 2	235 ± 10	84 ± 0.5	Flat Grid - Parallel Coil Sections	50	100/115v. -24.5 200/250v. -24	35/6
A1/57	1000	100, 110, 115, 200, 210, 220, 230, 240, 250	Goliath Edison screw	E40/45	64 ± 2	230 ± 10	120 ± 5	Flat Grid - Parallel Coil Sections	50	100/115v. -26 200/250v. -24	33/-
A1/59	1000*†	100, 110, 115, 200, 210, 220, 230, 240, 250	Medium Pre-focus	P28/25	38 ± 2	133 ± 7	55.5 ± 0.5	Bi-plane	25	27	49/6
A1/91	1000*†	100, 110, 115	Large Bell and Howell	B.H.46	38 ± 2	128 ± 7	59 ± 0.5	Bi-plane	25	28	49/6

Burning position: vertical, cap down except lamps marked †, which must burn vertically, cap up.

* Forced cooling is necessary for these lamps so that no part of the wall of the bulb exceeds a temperature of 500°C.

† Crown of bulb with opaque coating.

Voltages shown in italics are to order.



Class B1 — 100w



Class B1 — 250w



Class B1 — 500 and 1000w

CLASS B1 — ROUND BULB FOR FLOODLIGHTING AND THEATRE SPOTLIGHTS

Burning position — any, except within 45° of cap up position. Objective average life — 800 hours.

Standard Voltages 100, 110, 115, 200, 210, 220, 230, 240, 250.

Group I Lamp Ref. No.	Wattage	Standard Cap	Diameter	Overall Length	Light Centre Length	Nominal Efficiency Lumens per Watt		List Price
						100, 110, 115v.	200, 210, 220, 230, 240, 250v.	
B1/1	100	E.S. (E27/25)	mm. 40 ± 2	mm. 115 ± 10	mm. 75 ± 5	12	10	10/-
B1/2	250	E.S. (E27/25)	95 ± 2	125 ± 10	75 ± 5	14.5	12.5	19/3
B1/3	500	G.E.S. (E40/45)	130 ± 5	180 ± 10	115 ± 5	16	14.5	25/3
B1/4	1000	G.E.S. (E40/45)	130 ± 5	180 ± 10	115 ± 5	17.5	16	33/-

CLASS B2 — STANDARD GENERAL SERVICE BULB WITH BUNCHED FILAMENT (FLOODLIGHTING)

Burning position — any. Objective average life — 800 hours.

Standard Voltages 100, 110, 115, 200, 210, 220, 230, 240, 250.

Group I Lamp Ref. No.	Wattage	Standard Cap	Diameter	Overall Length	Light Centre Length	Nominal Efficiency Lumens per Watt		List Price
						100, 110, 115v.	200, 210, 220, 230, 240, 250v.	
B2/1	500	G.E.S. (E40/45)	mm. 130 ± 5	mm. 267 ± 8	mm. 202 ± 7	16	14.5	25/3
B2/2	1000	G.E.S. (E40/45)	150 ± 5	300 ± 9	225 ± 8	17.5	16	33/-

CLASS E — ROUND BULB WITH GRID FILAMENT FOR EPIDIASCOPES

Burning position — any, except within 45° of cap down position.

Objective average life — 100 hours. Standard Voltages 115, 200, 210, 220, 230, 240, 250.

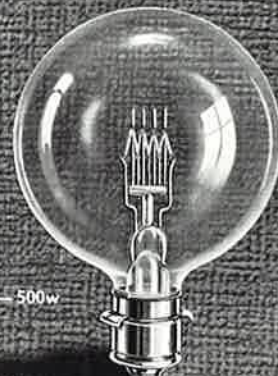
Group I Lamp Ref. No.	Wattage	Standard Cap	Diameter	Overall Length	Light Centre Length	Nominal Efficiency Lumens per Watt		List Price
						115v.	200, 210, 220, 230, 240, 250v.	
E1/1	500	Medium Pro-focus (P28/25)	mm. 100 ± 2	mm. 135 ± 10	mm. 60 ± 0.5	22	20.6	31/3
E1/3	500	E.S. (E27/25)	100 ± 2	135 ± 10	85 ± 0.5	22	20.6	30/3

Voltages shown in italics are to order.

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.



Class B2 — 500 and 1000w



Class E — 500w

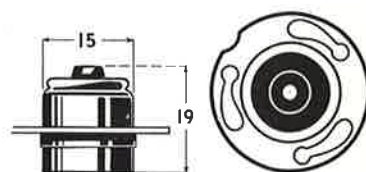
EKCO

PROJECTOR LAMPS – Class G



EXCITER LAMPS

The Ekco Exciter Lamp is most carefully manufactured, particular attention being given to producing a robust high efficiency filament and an accurate light centre length.



Cap P15s/19

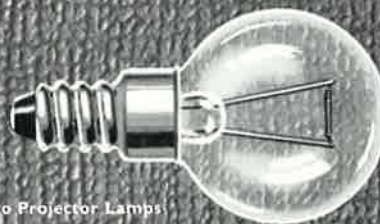
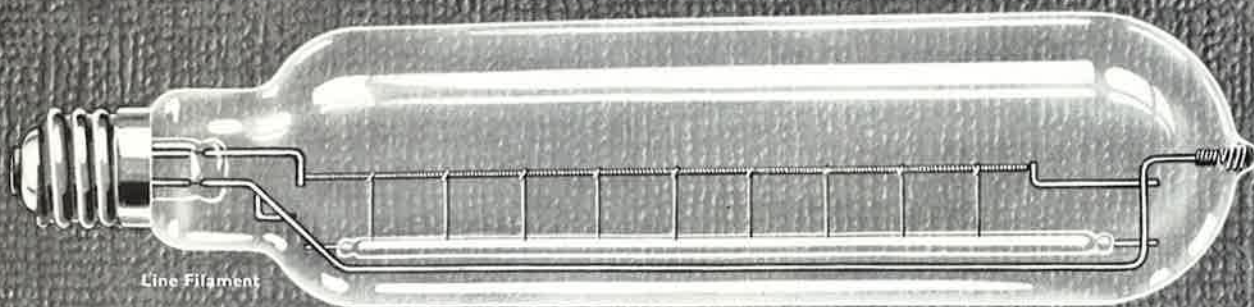
Exciter lamps for sound film apparatus. Burning position – vertical, cap down.

Group I										
Lamp Ref. No.	B.S. No.	Voltage	Current amps.	Nominal Efficiency Lumens per Watt	Objective Average Life Hours	Overall Length mm.	Diameter mm.	Light Centre Length mm.	Cap	List Price
EL/1	G/8	8	4	20	100	75±3	25±1	44±1	BA15s/21	6/-
EL/1A	G/7	8	4	20	100	75±3	25±1	37.3±0.5	P15s/19	7/-
EL/4	G/11	10	5	22	100	75±3	25±1	41±1	BA15s/21	8/-
EL/4A	G/10	10	5	22	100	75±3	25±1	37.3±0.5	P15s/19	9/-
EL/5	G/12	10	5	22	100	75±3	25±1	44±1	BA15s/21	8/-
EL/6	G/14	10	7.5	23.5	100	75±3	25±1	41±1	BA15s/21	8/-
EL/6A	G/13	10	7.5	23.5	100	75±3	25±1	37.3±0.5	P15s/19	9/-
EL/7	G/15	10	7.5	23.5	100	75±3	25±1	44±1	BA15s/21	8/-
EL/9	G/4	6	1	12	100	40±2	18±1	21.5±0.5	BA15s/17	6/-
EL/10	G/2	4	0.75	12	50	48±3	25±1	32±1.5	BA15s/21	6/-
EL/10A	G/1	4	0.75	12	50	48±3	25±1	28.5±0.5	P15s/19	7/-
EL/10B	G/19	4	0.75	12	50	48±3	15±1	31.75±0.75	BA15s/17	6/-
EL/10C	G/29	4	0.75	12	50	57±3	16±1	28.5±0.5	P15s/19	7/-
EL/10D	—	4	0.75	12	50	48±3	25±1	32±1.5	BA15d	6/-
—	G/22	4	6	12	100	49±3	25±1	31.5±1	BA15s/21	6/6
—	G/23	5	6.5	18	50	75±3	25±1	41±0.5	P15s/19	8/-
—	G/5	6	1	12	100	57±3	16±1	28.5±0.5	P15s/19	6/-
—	G/30	6	5	18	100	52±3	18±1	31±1.5	BA15s/17	7/-

Voltages shown in italics are to order.

EKCO

PROJECTOR LAMPS — Class F and FL



Illustrations are not to same scale

MICRO PROJECTOR

LAMPS

Class F

For use in microprojection, microscope illumination and small home cinemas.

Group I Cat. No.	Voltage	Wattage	Nominal Dimensions			Cap	Nominal Lumens	Life Hrs.	List Price
			Diameter mm.	Overall Length mm.	Light Centre Length mm.				
F/24	6	24	38 ± 2	57 ± 5	47 ± 5	E27/25	430	100	4/-
F/10	6	24	38 ± 2	60 ± 5	50 ± 5	E14/23 × 15	430	100	4/-
F/10	12	24	38 ± 2	60 ± 5	50 ± 5	E14/23 × 15	430	100	4/-
F/3	12	24	38 ± 2	60 ± 5	44 ± 5	B15d/24 × 18	430	100	4/-
F/25	6	30	35 ± 2	63 ± 5	53 ± 5	E27/35 × 30	630	25	6/6
F/26	6	30	35 ± 2	65 ± 5	47 ± 5	E14/23 × 15	465	200	6/6
F/1	6	30	35 ± 2	57 ± 5	47 ± 5	E14/23 × 15	630	25	6/6
F/2	6	48	35 ± 2	57 ± 5	40 ± 3	B15d/24 × 18	890	100	8/3
F/7	8	48	35 ± 2	60 ± 5	41 ± 3	E14/23 × 15	1050	25	8/3
F/4	12	48	50 ± 2	70 ± 5	40 ± 3	E14/23 × 15	890	100	6/-
F/13	12	48	50 ± 2	68 ± 7	38 ± 5	E27/25	890	100	6/-
F/14	12	100	60 ± 2	85 ± 5	55 ± 5	E27/25	1950	100	13/3

Volatges shown in italics are to order.

Group I Lamp Ref. No.	Wattage	Standard Voltages	Standard Cap	Diameter mm.	Overall Length mm.	Filament	Objective Average Life (hours)	List Price
FL/1	500	115, 200, 210, 220, 230, 240, 250	G.E.S.	90 ± 1	355 ± 10	Straight Line	1000	38/6
FL/2	1000	115, 200, 210, 220, 230, 240, 250	G.E.S.	90 ± 1	390 ± 10	Straight Line	1000	49/6

Volatges shown in italics are to order.

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

LINE FILAMENT LAMPS

Class FL

These lamps have a 'Line Filament'. Used in suitable fittings, the beam has a very narrow vertical divergence and a wide horizontal spread. Such fittings have many uses in floodlighting and theatre lighting schemes. Burning position horizontal.

EKCO

PHOTOFLOOD AND ENLARGING LAMPS



500w (6 hour)
Photo Flood Lamp

HIGH INTENSITY OPAL

ENLARGING LAMPS

Standard Voltages: 110, 210, 230, 240, 250.

Cap - B.C. or E.S. Average life 100 hours.

Group I		Overall Length mm.	Bulb Diameter mm.	List Price
Watts				
150		117	65	4/6

Voltages shown in italics are to order.

PHOTOFLOOD LAMPS

The filaments of these lamps run at an extremely high temperature and produce light especially suitable for commercial and indoor photography. The bulbs are pearl finish.

A safety fuse is fitted in the cap.

Group I		Standard Voltages	Approx. Life	Length		Diameter		Standard Cap	Approx. Colour Temperature	List Price
Wattage	Type			mm.	in.	mm.	in.			
272	PH/1	100-110 200-220 230-240 250-260	3 hrs.	117.5 ± 3.5	4 1/2	65 ± 1	2 9/16	B.C. or E.S.	3,300°K	2/6
500	PH/2	100-110 200-220 230-240 250-260	10 hrs.	160 ± 4.5	6 1/4	80 ± 1	3 1/8	B.C. or E.S.	3,300°K	6/6
500	PH/B	100-110 200-220 230-240 250-260	100 hrs.	178 ± 5.5	7	90 ± 1	3 1/2	E.S.	3,150°K	22/-

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

EKCO

CYCLE DYNAMO LAMPS



Headlamps and Tail lamps

Robust and reliable lamps for all 6v. Cycle Dynamo Sets and hand lamps. All bulbs clear finish. Packed 50 lamps per carton.

HEADLAMPS

Group IV Voltage	Current amps.	Bulb Diameter mm.	Finish	Cap	List Price
6	0.3	18±1	Clear	S.C.C.	1/4
6	0.5	18±1	Clear	S.C.C.	1/4
6	0.3	15±1	Clear	M.E.S.	8d.
6	0.5	15±1	Clear	M.E.S.	8d.
8	0.15	11 or 15	Clear	M.E.S.	8d.

TAIL LAMPS

Group IV Voltage	Current amps.	Bulb Diameter mm.	Finish	Cap	List Price
6	0.04	11±1	Clear	M.E.S.	8d.
6	0.04	15±1	Clear	M.E.S.	8d.
6	0.03	15±1	Clear	M.E.S.	8d.
6	0.10	11±1	Clear	M.E.S.	8d.
6	0.25	11±1	Clear	M.E.S.	8d.

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

EKCO

FLASH LAMPS & RADIO PANEL LAMPS



Flash Lamps



Radio Panel Lamps



FLASH LAMPS

Standard cap - M.E.S. Clear round bulbs

Group III Volts	Amps	Diameter ± 1 mm.	Overall Length max. mm.	List Price
2.5	0.2	11	24	4d.
2.5	0.3	11	24	4d.
3.5	0.15	11	24	4d.
3.5	0.3	11	24	4d.
4.0	0.3	11	24	4d.
4.5	0.3	15	27.5	4d.

RADIO PANEL LAMPS

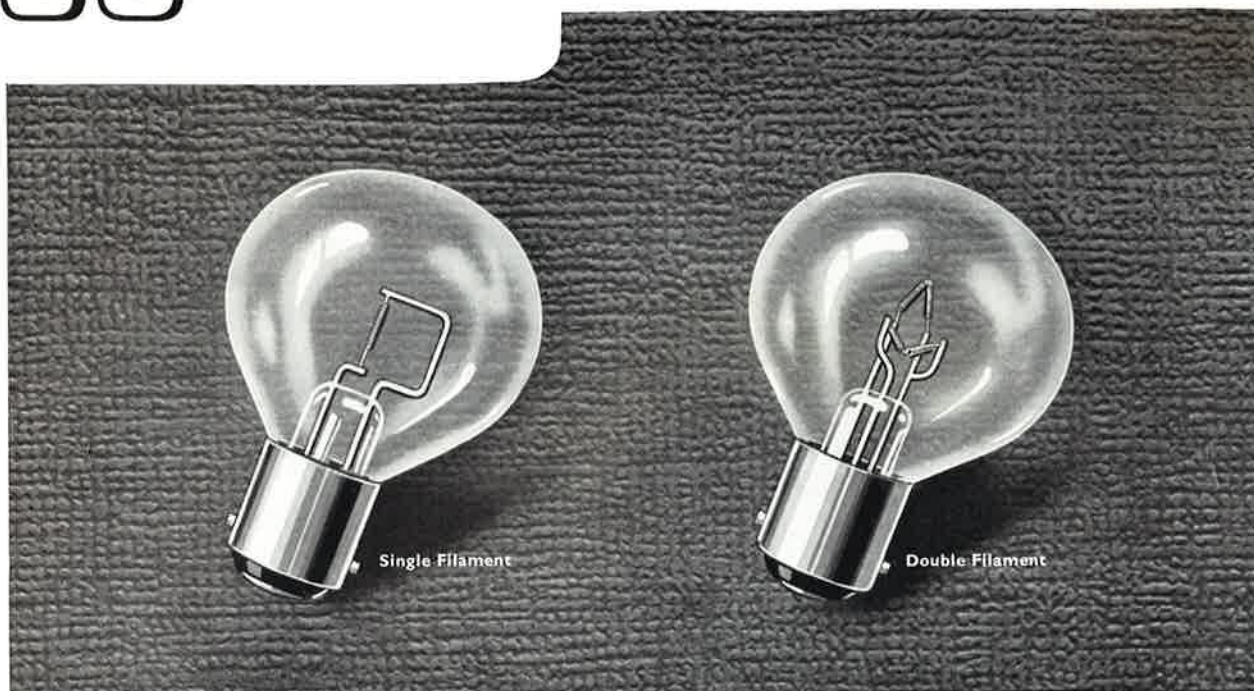
Standard cap - M.E.S. Clear bulbs

Group X Volts	Amps	Bulb diameter ± 1 mm.	Overall Length	Bulb Shape	List Price
3.5	0.15	11	23	Round	7d.
6.0	0.04 or 0.06	11	23	Round	1/-
6.2	0.3	15	27.5	Round	7d.
6.3	0.11	11	23	Round	7d.
6.3	0.15	11	23	Round	7d.
6.5	0.3	11 or 15	23 or 27.5	Round	7d.
8.0	0.15	11 or 15	23 or 27.5	Round	9d.
4.0	0.3	10	28.5	Tubular	1/-
6.2	0.3	10	28.5	Tubular	7d.
6.3	0.15	10	28.5	Tubular	7d.
6.5	0.3	10	28.5	Tubular	7d.

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

EKCO

CAR BULBS



Overall length 56 mm. – bulb diam. 38 mm., except lamps marked with an asterisk which are 63 mm. × 50 mm.

B.C. available at same price as S.B.C.

SINGLE FILAMENT

HEADLAMPS

Axial Filaments

Group II Voltage	Wattage	S.C.C.		S.B.C.	
		Lamp Ref. No.	List Price	Lamp Ref. No.	List Price
6	18	11	3/-	—	3/1
6	24	106	2/6	109	2/7
6	30	—	2/9	—	2/10
6	36	108	2/9	111	2/10
12	24	1	2/6	4	2/7
12	36	2	2/6	5	2/7
12	48	23	4/-	27	4/1
12	60*	90	5/6	26	5/7
24	24	—	—	122	2/7
24	36	621	2/6	123	2/7
24	48	623	4/-	140	4/1
24	60*	124	5/6	128	5/7

Overall length 56 mm. – bulb diam. 38 mm. Cap – S.B.C.

DOUBLE FILAMENT

HEADLAMPS

Double Transverse Filaments

Group II Voltage	Wattage	Lamp Ref. No.	List Price
6	18/18	180	4/6
6	24/24	168	3/6
6	30/30	169	3/6
6	36/36	170	3/6
12	36/36	171	3/6
24	36/36	194	4/3

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

EKCO

CAR BULBS



Single Filament



Double Filament

SINGLE FILAMENT

BRITISH PREFOCUS HEADLAMPS

Axial and Transverse Filaments

Overall length 62 mm. Bulb diam. 28 mm.
Caps: single contact P22s/21 – double contact P22d/21

Group II Voltage	Wattage	Cap	Filament	Lamp Ref. No.	List Price
6	36	Single Contact	Axial	172	3/9
6	36	Single Contact	Transverse	173	3/9
12	36	Single Contact	Axial	162	3/9
12	38	Single Contact	Transverse	325	3/9
12	38	Double Contact	Transverse	326	3/9
12	48	Single Contact	Axial	185	4/6
12	48	Single Contact	Transverse	323	4/6
24	44	Double Contact	Transverse	330	4/6
24	44	Double Contact	Axial	331	4/6

DOUBLE FILAMENT

BRITISH PREFOCUS HEADLAMPS

Double Transverse Filaments

Overall length 62 mm. Bulb diam. 28 mm. Caps – double contact P22d/21

Group II Voltage	Wattage	Lamp Ref. No.	Dipping Arrangements		List Price
			Dip	Drive	
6	24/24	166	Vertical	Either	4/9
6	30/24	312	Vertical	Either	5/-
6	36/36	306	Left	R/Hand	4/6
12	42/36	354	Left	R/Hand	4/6
12	44/38	358	Left	R/Hand	5/4
12	48/48	302	Left	R/Hand	6/9
24	44/38	359	Left	R/Hand	5/7

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

EKCO

CAR BULBS



Trafficator (Festoon)



Indicator



Side or Tail



Stop and Tail

Group II Voltage	Wattage	Cap	Filament	Lamp Ref. No.	List Price
6	18	S.C.C.	Transverse	317	3/9
12	18	S.C.C.	Transverse	221	3/6
12	21	S.C.C.	Transverse	382	3/-
12	24	S.C.C.	Transverse	199	3/6

STOP LAMPS

Overall length 46 mm. - bulb diameter 25 mm.

STOP & TAIL LAMPS

Overall length 46 mm. - bulb diameter 25 mm.

Group II Voltage	Wattage	Cap	Filament	Lamp Ref. No.	List Price
6	18/6	S.B.C.	Transverse and Bow	383	3/6
6	18/6	S.B.C.*	Transverse and Bow	384	3/6
12	21/6	S.B.C.	Transverse and Bow	381	3/6
12	21/6	S.B.C.*	Transverse and Bow	380	3/6
24	24/6	S.B.C.*	Transverse and Bow	334	3/9

* Offset pins (B15d/19).

Group II Voltage	Wattage	Bulb Diameter mm.	Overall Length mm.	S.C.C.		S.B.C.	
				Lamp Ref. No.	List Price	Lamp Ref. No.	List Price
6	3	18	32.5	200	1/4	204	1/5
6	6	18	32.5	205	1/6	206	1/7
12	4	18	32.5	—	1/7	—	1/8
12	6	18	32.5	207	1/4	209	1/5
12	6	18	32.5	149	1/4	150	1/5
24†	6	18	32.5	988	1/5*	—	—
6	3	15	27.5	222	1/5*	—	—
12	4	15	27.5	—	—	—	—

* M.C.C. Cap. † B.C. Cap available at same price. Lamp Reference No. 638.

INDICATOR LAMPS

Group II Voltage	Wattage	Bulb diameter mm.	M.E.S. Cap		M.C.C. Cap	
			Lamp Ref. No.	List Price	Lamp Ref. No.	List Price
6	3.0	11	990	1/1	641	1/2
12	2.2	11	987	1/1	643	1/2
12	2.2	15	986	1/1	645	1/2
16	3.0	15	985	2/3	647	2/6
24	2.8	15	993	1/4	651	1/5

Voltage	Wattage	Lamp Ref. No.	Cap	Dimensions		List Price
				Length mm.	Diameter mm.	
6	3	255	S7/8	35.5	7.5	2/3
6	6	253	S8.5/8	38.0	11.0	2/7
12	3	256	S7/8	35.5	7.5	2/3
12	6	254	S8.5/8	38.0	11.0	2/7
24	6	653	S8.5/8	38.0	11.0	2/6
24†	6	654	S8.5/8	38.0	11.0	3/10
24	6	260	S8.5/8	44.0	11.0	2/7

† With supported Filament.

TRAFFICATOR LAMPS

Festoon

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

EKCO

TELEPHONE SWITCHBOARD INDICATOR LAMPS

(No. 2 Telephone Jack Lamps)

These lamps are made in accordance with British Standard 1050, 1953, 'Visual Indicator Lamps', except the 12v lamp which has a tungsten filament.

Length:

Standard 1.75 in.
(44.5 mm.)

Alternative 1.5 in.
(38 mm.)

Diameter over plates:

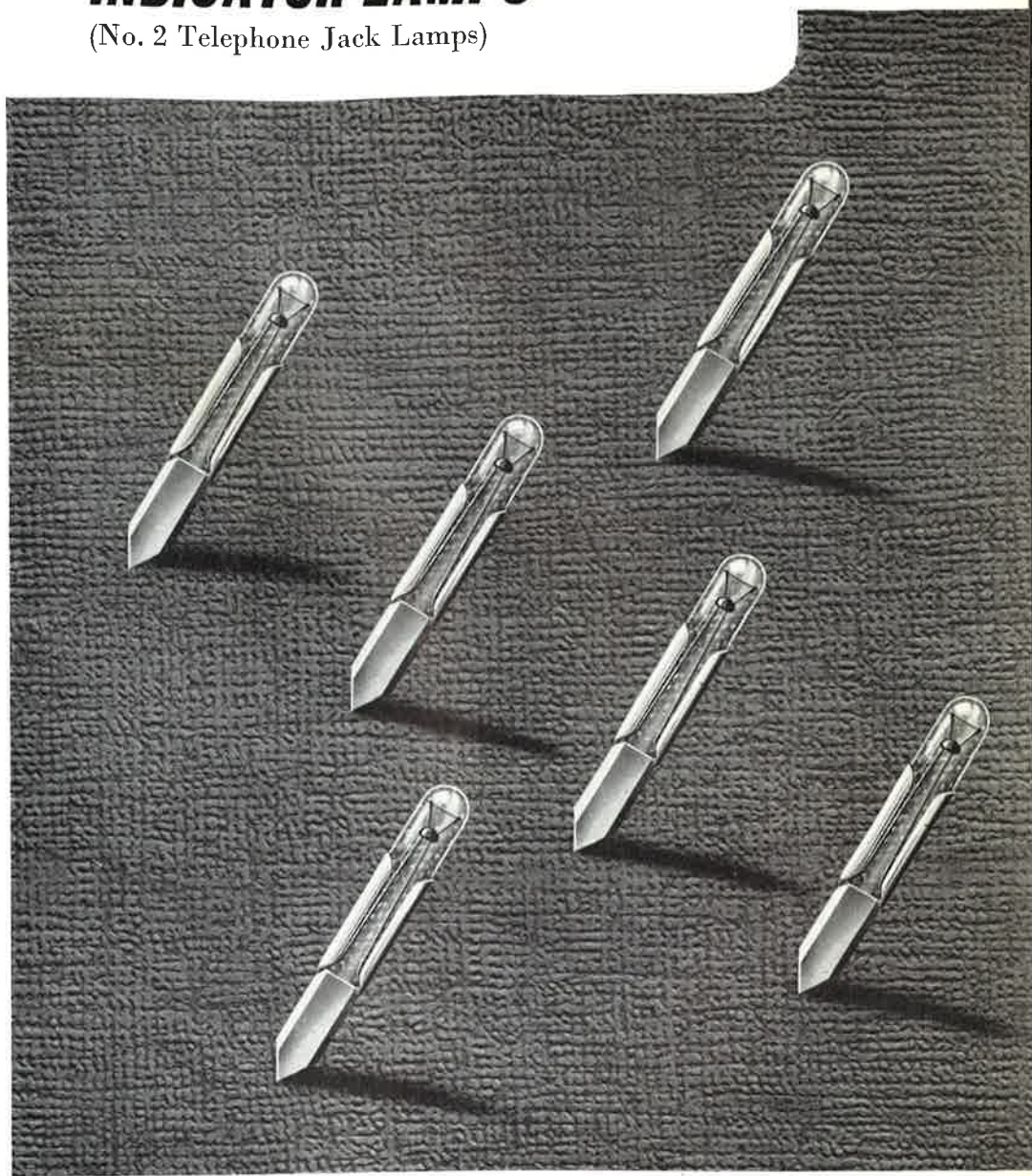
0.275 in. (7 mm.)
nominal

Diameter of bulb:

0.245 in. (6.25 mm.)
nominal

Average specified life:

1,000 hours.



Group VII		End Pieces		Lumens	List Price
Volts	Amps	Colour	Colour Code*		
4	0.250	Green	267	3.7	2/2
6	0.041	Grey	631	0.7	2/2
12	0.100	Red†	538	3.0	2/2
17	0.045	Orange	557	1.8	2/2
24	0.100	Yellow	355	6.0	2/2

* BS.381C. Colours for ready-mixed paints.

† Alternative - Yellow mottle

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32

EKCO

SODIUM LAMPS



All lamps with appropriate control gear, are suitable for 200/250v. supplies and are fitted with ceramic bayonet caps—45w., 60w. and 85w. with B22/S and 140w. with B22/M.

Group IX		Nominal Lumens		Dimensions			List Price		
Lamp Wattage	Wattage with Gear	Initial	Average through Life	Overall Length ± 10 mm.	Diameter ± 2 mm.	Light Centre Length ± 10 mm.	Lamp	Vacuum Jacket	Lamp and Jacket
45	65	2,610	2,250	238	50	140	40/-	21/9	61/9
60	80	4,020	3,420	300	50	170	45/-	24/6	69/6
85	105	6,200	5,525	415	50	230	60/-	29/3	89/3
140	165	10,250	9,100	518	65	280	65/-	33/-	98/-

Operating Directions:

The lamp must be fitted into a vacuum jacket of the correct size.

The position of operation should be approximately horizontal but *slightly cap up* or:

45w. and 60w. sizes – from approximately horizontal (slightly cap up) to vertical cap up.

85w. and 140w. sizes – from approximately horizontal (slightly cap up) to 20° above the horizontal (cap up).

The cap must never be lower than the lamp tube.

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

EKCO

MERCURY LAMPS – Types MA/V & MB/U



Illustrations are not to scale.

Standard Voltages – 200/220, 230/240, 250 A.C.

Group IX Lamp Wattage	Class	Bulb Finish	Cap	Nominal Lumens		List Price
				Initial	Average through Life	
80	MB/U	Pearl	3-pin B.C.	3,000	2,350	39/6
125	MB/U	Pearl	3-pin B.C.	5,300	3,900	45/-
250	MA/V	Clear	G.E.S.	8,750	7,750	54/-
400	MA/V	Clear	G.E.S.	16,800	13,600	59/-
80	MBF/U	Fluorescent	3-pin B.C.	3,000	2,350	48/6
125	MBF/U	Fluorescent	3-pin B.C.	5,300	3,900	59/-
250	MBF/U	Fluorescent	G.E.S.	10,000	8,500	120/-
400	MBF/U	Fluorescent	G.E.S.	18,000	16,800	180/-

Operating Positions: MB/U and MBF/U type – any.
MA/V types – vertical cap up or cap down – horizontally in lanterns fitted with magnetic deflectors.
When used outside, these lamps must be protected from rain.

Dimensions for Mercury Lamps

Rating Watts	Class	Wattage with Gear	Dimensions – mm.		
			Overall Length	Dia.	L.C.L.
80	MB/U	90	160±4.5	80±1	113±4
125	MB/U	138	178±5.5	90±1	128±5
250	MA/V	270	290±8	48±3	170±8
400	MA/V	425	330±8	48±3	190±8
80	MBF/U	90	160±4.5	80±1	120±4
125	MBF/U	138	178±5.5	90±1	133±5
250	MBF/U	270	227±7	90±1	145±7
400	MBF/U	425	290±8	120±1.5	185±8

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

EKCO

DOUBLE-LIFE

FLUORESCENT TUBES



THE EKCO RANGE

Standard Fluorescent Tubes, up to and including the 5 ft. size, are available in six 'whites' and five colours. Peach and ultra-violet tubes are also obtainable.

The latest additions to the range are the reflector tubes and the 8 ft. tube.

WHITES

White (3500° K) tubes are recommended for all general lighting purposes because they are of a colour between daylight and warm white. They combine a pleasant appearance with good colour rendering of most materials and their efficiency is the highest of the 'white' range.

Warm White tubes provide light of a warmer tone than white, daylight or natural tubes and they are recommended for use in commerce and industry, particularly where the colour of the other tubes appears to be somewhat 'cold'. Their efficiency is nearly equal to white (3500° K) tubes.

De-Luxe Warm White tubes radiate a soft mellow light which is kind to the complexion and makes food, furnishings and other commodities look attractive. They blend well with tungsten lighting and are eminently suitable for restaurants, cinema and theatre foyers, entrance lobbies and the home, and also other locations where a cordial intimate atmosphere is desirable.

Peach Tubes have been superseded by de-luxe warm white tubes, but all sizes of peach tubes are still available.

Daylight tubes are used mainly in industry to supplement inadequate natural lighting and to provide artificial daylight conditions after dark.

Natural tubes are for use in commerce and industry where the discrimination and grading of colours are of importance. They give a close approximation to natural daylight.

Northlight (6500° K Colour Matching) tubes simulate north

sky daylight and are suitable for many colour matching purposes.

COLOURS

Five standard colours are available: green, gold, blue, red, and pink. Two and three section coloured tubes can be manufactured in bulk quantities, to order. For three section tubes, the centre section must be white.

U.V. TUBE

Ultra-violet tubes are for the irradiation of fluorescent paints and similar substances and a screen of Woods glass or similar material is required to filter out the visible light. The radiation from these tubes is normally harmless, but prolonged exposure of the eyes to the rays should be avoided.

Ultra-violet tubes are available only in 80w. 5 ft., 40w. 4 ft. and 20w. 2 ft. sizes.

REFLECTOR TUBES

Available in white (3500° K), warm white and natural only in 80w. 5 ft. and 40w. 4 ft. sizes, these reflector tubes are similar to a standard tube, except that the major portion is covered with an internal white reflector backing which directs all the light through a window of approximately 120°.

125w. 8 ft. TUBE

Available in white, warm white, daylight and natural, this tube is for use in installations requiring long continuous lines of light.

DOUBLE-LIFE GUARANTEE

EKCO 'double-life' fluorescent tubes have a rated average life of 5,000 hours. Subject to use with approved control gear under correct operating conditions, tubes failing through defective material or workmanship will be credited in full or replaced free of charge, at our option, should failure occur within twelve months of the date of purchase or a life of 3,000 hours, whichever is the less. Pro-rata replacement or credit for tubes failing between 3,000 and 5,000 hours will not be given. Experience has shown that the number of tubes failing at this stage is compensated for by the many tubes lasting beyond 5,000 hours.

TECHNICAL DATA **

Group IX	Tube Type	125w. 8 ft.		80w. 5 ft.	40w. 4 ft.	30w. 3 ft.		40w. 2 ft.	20w. 2 ft.	15w. 1½ ft.	
						1½" dia.	1" dia.			1½" dia.	1" dia.
Overall Length – inches		94-06 max.	96 ± 0-25	60 ± 0-25	47 7/8 max.	35 3/8 max.	35 3/8 max.	23 3/8 max.	23 3/8 max.	17 3/8 max.	17 3/8 max.
Diameter – inches		1-5 ± 0-06		1-5 ± 0-06	1-5 ± 0-06	1-5 ± 0-06	1-0 ± 0-04	1-5 ± 0-06	1-5 ± 0-06	1-5 ± 0-06	1-0 ± 0-04
Length (end of pin to opposite cap face) – inches		93-66 – 93-80	—	—	47 1/2 – 47 3/4	35 1/2 – 35 3/4	35 1/2 – 35 3/4	23 1/2 – 23 3/4	23 1/2 – 23 3/4	17 1/2 – 17 3/4	17 1/2 – 17 3/4
Length between lamp faces – inches		93-5 max.	—	—	47 3/4 max.	35 3/4 max.	35 3/4 max.	23 3/4 max.	23 3/4 max.	17 3/4 max.	17 3/4 max.
Cap		Bi-pin	Bayonet	†	†	†	†	†	†	†	†
Rated Consumption Watts		125		80	40	30	30	40	20	15	15
Rated average life (specified test conditions) – hours		5,000		5000	5000	5000	5000	5000	5000	5000	5000
Tube voltage approx.		160		106	108	85	105	50	60	48	55
Tube current amps. approx.		0-85		0-85	0-41	0-39	0-35	0-88	0-37	0-37	0-35
Supply voltage range		200/250†		200/250†	200/250†	200/250†	200/250†	100/250*	100/250*	100/250*	100/250*

* Normally run in series pairs on 200/250v. or singly on 100/125v.

** In Free Air (draught free) at 20°C. (68°F.)

† For supplies below 200v. suitable Control Gear can be supplied to order.

† The 8 ft. and 5 ft. lamps are available with either bayonet or medium bi-pin caps. All other sizes of tubes have medium bi-pin caps only.

LIGHT OUTPUT AND EFFICIENCIES **

Light outputs are in lumens and efficiencies, shown in brackets, are in lumens per watt.

Time	Tube Type	125w. 8 ft.		80w. 5 ft.	40w. 4 ft.	30w. 3 ft.		40w. 2 ft.	20w. 2 ft.	15w. 1½ ft.	
						1½" dia.	1" dia.			1½" dia.	1" dia.
100 hrs.	White	8000 (64)	4800 (60)	2560 (64)	1770 (59)	1800 (60)	1800 (45)	1040 (52)	690 (46)	675 (45)	675 (45)
	Warm White	7875 (63)	4720 (59)	2520 (63)	1740 (58)	1770 (59)	1760 (44)	1020 (51)	675 (45)	660 (44)	660 (44)
	De-Luxe Warm White	—	3200 (40)	1680 (42)	1170 (39)	1200 (40)	1120 (28)	660 (33)	435 (29)	435 (29)	435 (29)
	Daylight	7625 (61)	4560 (57)	2440 (61)	1680 (56)	1710 (57)	1720 (43)	1000 (50)	660 (44)	645 (43)	645 (43)
	Natural	6000 (48)	3680 (46)	1920 (48)	1350 (45)	1380 (46)	1320 (33)	780 (39)	495 (33)	495 (33)	495 (33)
	Northlight	—	3520 (44)	1800 (45)	1260 (42)	1290 (42)	1240 (31)	720 (36)	465 (31)	465 (31)	465 (31)
	Reflector – White	—	4400 (55)	2320 (58)	—	—	—	—	—	—	—
	Reflector – Warm White	—	4320 (54)	2280 (57)	—	—	—	—	—	—	—
	Reflector – Natural	—	3360 (42)	1760 (44)	—	—	—	—	—	—	—
*Average to 5,000 hrs.	White	7125 (57)	4320 (54)	2320 (58)	1590 (52)	1560 (52)	1480 (37)	940 (47)	615 (41)	555 (37)	555 (37)
	Warm White	7000 (56)	4240 (53)	2280 (57)	1560 (52)	1530 (51)	1440 (36)	920 (46)	600 (40)	540 (36)	540 (36)
	De-Luxe Warm White	—	2640 (33)	1440 (36)	990 (33)	960 (32)	880 (22)	560 (28)	360 (24)	345 (23)	345 (23)
	Daylight	6750 (54)	4080 (51)	2200 (55)	1500 (50)	1470 (49)	1400 (35)	900 (45)	585 (39)	525 (35)	525 (35)
	Natural	5125 (41)	3200 (40)	1680 (42)	1170 (39)	1140 (38)	1040 (26)	680 (34)	420 (28)	390 (26)	390 (26)
	Northlight	—	3040 (38)	1600 (40)	1110 (37)	1080 (36)	1000 (25)	620 (31)	375 (25)	360 (24)	360 (24)
	Reflector – White	—	3920 (49)	2080 (52)	—	—	—	—	—	—	—
	Reflector – Warm White	—	3840 (48)	2040 (51)	—	—	—	—	—	—	—
	Reflector – Natural	—	2880 (36)	1520 (38)	—	—	—	—	—	—	—
5,000 hrs.	White	†	4000 (50)	2160 (54)	1470 (49)	1440 (48)	1320 (33)	880 (44)	570 (38)	495 (33)	495 (33)
	Warm White	†	3920 (49)	2120 (53)	1410 (47)	1380 (46)	1280 (32)	860 (43)	555 (37)	480 (32)	480 (32)
	De-Luxe Warm White	—	2320 (29)	1320 (33)	840 (28)	810 (27)	720 (18)	480 (24)	315 (21)	270 (18)	270 (18)
	Daylight	†	3760 (47)	2040 (51)	1380 (46)	1350 (45)	1240 (31)	840 (42)	540 (36)	465 (31)	465 (31)
	Natural	†	2960 (37)	1560 (39)	1080 (36)	1020 (34)	880 (22)	620 (31)	390 (26)	330 (22)	330 (22)
	Northlight	—	2800 (35)	1520 (38)	1050 (35)	960 (32)	840 (21)	560 (28)	360 (24)	330 (22)	330 (22)
	Reflector – White	—	†	†	—	—	—	—	—	—	—
	Reflector – Warm White	—	†	†	—	—	—	—	—	—	—
	Reflector – Natural	—	†	†	—	—	—	—	—	—	—

* Approx. equal to the efficiency at 2,000 hours.

† To be announced.

** In Free Air (draught free) at 20°C. (68°F.)

QUICKSTART AND INSTANT START TUBES

Three types of tubes are available as below:

- Standard.** This is the tube for all switchstart circuits and it is normally supplied unless other types are ordered.
- Quickstart (Sylcoated).** This tube has a colourless water repellent coating and should be used in Quickstart circuits where there is an earthed metal surface along the length of the tube and not more than ½" away from it.
The details given against every Ekco fluorescent lighting fitting indicate which type of tube is required for Quickstart operation.
Gold, red and U.V. tubes are not available as Quickstart tubes.
- Instant Start (Metal Strip).** This tube is required for a Quickstart circuit when there is not an adjacent earthed surface permitting the use of the Quickstart (sylcoated) tube. The metal strip must be earthed and this is normally carried out by means of an earthed lampholder.
Where Instant Start (metal strip) tubes are recommended for Ekco fluorescent lighting fittings one of the lampholders on the fitting is earthed.

PRICE LIST

Tube Size	125w. 8 ft.	80w. 5 ft.	40w. 4 ft.	30w. 3 ft. 1½" and 1" dia.	40w. 2 ft.	20w. 2 ft.	15w. 1½ ft. 1½" and 1" dia.
Whites	25/-*	13/-	11/9	11/-	11/-	10/6	9/9
Purchase Tax	—	2/8	2/5	2/3	2/3	2/2	2/-
Colours and U.V.*	—	17/6	17/-	16/6	16/-	15/-	15/-
Purchase Tax	—	3/7	3/6	3/5	3/3½	3/1	3/1
Reflector Tubes	—	14/9	13/9	—	—	—	—
Purchase Tax	—	3/0½	2/10	—	—	—	—

* Restricted range only – see page 30 opposite.

EXTRAS: Quickstart (Sylcoated) 6d. extra per tube plus 1½d. Purchase Tax (except 40w. 2 ft. where the Standard Type is Sylcoated).
Instant Start (Metal Strip) 1/- extra per tube plus 2½d. Purchase Tax (Stock sizes 80w. 5 ft. and 40w. 4 ft. Others to order).

Satisfactory operation of Ekco fluorescent tubes is assured with control gear manufactured or approved by Ekco-Ensign Electric Ltd.
Ekco 80w. and 125w. fluorescent tubes are normally supplied in cartons of 12 tubes. All other sizes in cartons of 24.

Note: All prices quoted in this catalogue are list prices to which Purchase Tax, where applicable, must be added. For details see page 32.

GENERAL INFORMATION

LAMP CAPS

LAMP CAP DESIGNATIONS. The letter at the commencement denotes the type of cap, such as 'B' bayonet, or 'E' Edison screw. The next two figures give the nominal outer diameter of the cap barrel or screw thread in millimetres. The small letter, if any, before the oblique stroke, such as 'd' or 's', indicates double or single pole. The two figures following the oblique give the nominal overall length of the cap, and the figures after the 'x' give the nominal diameter of the flange, if any.

LAMP CAP CODE. The following abbreviations are those used throughout this Catalogue and should be specified on all orders.

B.C.—Bayonet

S.B.C.—Small Bayonet

E.S.—Edison Screw

S.E.S.—Small Edison Screw

G.E.S.—Goliath Edison Screw

C.C.—Centre Contact

S.C.C.—Small Centre Contact

VARIATIONS FROM STANDARD CAPS. Extra charges on List Prices for variations from Standard Caps:

For S.B.C., S.E.S., or S.C.C. in place of B.C., E.S., or C.C.

3d. each

For G.E.S., in place of B.C. or E.S. or vice-versa

1/- each

STANDARD CONTAINERS

15-40 watts 100 per carton

60-100 watts 50 or 100 per carton

150 watts 50 per carton

200 watts 50 per carton

300 watts 24 per carton

500-1,000 watts 12 per carton

1,500 watts 6 per carton

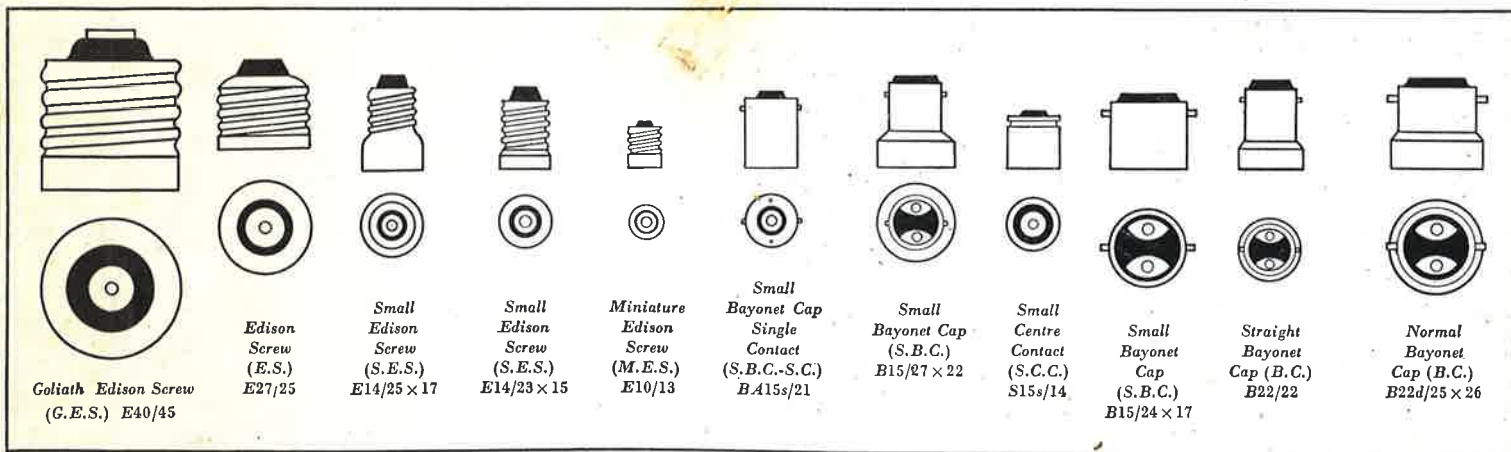
Candles & Striplites 50 per carton

Economy Lamps { 12 per display carton
96 per container

Cycle Dynamo & Flash Lamps 50 per carton

Ordering by these standard quantities is strongly recommended.

ORDERING. Please state clearly on all orders: 1. Quantity; 2. Voltage; 3. Wattage; 4. Type of Lamps; 5. Finish; 6. Cap types.
Example: 100, 230v. 50w. G.F. Pearl B.C.



PURCHASE TAX SCHEDULE - Operating from Oct. 27, 1955

Purchase Tax is chargeable on list prices, as follows: Groups 1 and 6 (up to and including 250w.) 20.5%. Groups 2 and 4 19.1%. Radio Panel and Flash Lamp Bulbs 17.6%. Projector Lamps B1/1, B1/2 and Class 'F' Micro Projector 20.5%. Projector Lamps, Classes A1, E, F1 and G, also Neon, Sodium and Mercury Discharge Lamps are free of purchase tax. The following tables have been compiled for quick reference, the tax being quoted to the nearest 1/2d. Where Tungsten Filament Lamps are purchased in quantities, the tax must be calculated as a percentage of the gross list value. The tax on quantities of Fluorescent Tubes must be calculated on the basis of Tax per tube.

EKCO TUNGSTEN FILAMENT LAMPS

Groups 1 and 6

List Price	New P.T.	List Price	New P.T.	List Price	New P.T.	List Price	New P.T.	List Price	New P.T.	List Price	New P.T.
6d.	1 1/4d.	1/9	4 1/2d.	2/9	7d.	4/3	10 1/2d.	7/9	1/7	16/6	3/4 1/2
9d.	2d.	1/9 1/2	4 1/2d.	2/10	7d.	4/5	11d.	8/-	1/7 1/2	17/-	3/6
1/-	2 1/2d.	1/10	4 1/2d.	2/11	7 1/2d.	4/6	11d.	8/6	1/9	17/1	3/6
1/1	3d.	1/11	5d.	3/-	7 1/2d.	4/9	1/-	9/-	1/10	17/6	3/7
1/2	3d.	2/-	5d.	3/1	8d.	4/11	1/-	9/6	1/11 1/2	18/6	3/9 1/2
1/3	3d.	2/1	5d.	3/2	8d.	5/-	1/0 1/2	9/9	2/-	19/3	3/11 1/2
1/4	3 1/2d.	2/1 1/2	5 1/2d.	3/3	8d.	5/3	1/1	10/-	2/0 1/2	25/-	5/1 1/2
1/4 1/2	3 1/2d.	2/2	5 1/2d.	3/4	8 1/2d.	5/9	1/2 1/2	10/6	2/2	28/6	5/10
1/5	3 1/2d.	2/3	5 1/2d.	3/5	8 1/2d.	6/-	1/3	11/-	2/3		
1/6	4d.	2/4	6d.	3/6	9d.	6/1	1/3	11/9	2/5		
1/6 1/2	4d.	2/5	6d.	3/7	9d.	6/4	1/3 1/2	13/-	2/8		
1/7	4d.	2/6	6 1/2d.	3/9	9 1/2d.	6/6	1/4	15/-	3/1		
1/7 1/2	4d.	2/7	6 1/2d.	3/11	10d.	7/-	1/5 1/2	15/6	3/2		
1/8	4d.	2/8	6 1/2d.	4/-	10d.	7/6	1/6 1/2	16/-	3/3 1/2		

AUTO & CYCLE DYNAMO LAMPS

Groups 2 and 4

List Price	New P.T.	List Price	New P.T.	List Price	New P.T.
4d.	1d.	2/3	5 1/2d.	4/6	10 1/2d.
7d.	1 1/2d.	2/4	5 1/2d.	4/9	11d.
8d.	1 1/2d.	2/6	6d.	5/-	11 1/2d.
8 1/2d.	1 1/2d.	2/7	6d.	5/6	1/0 1/2
9d.	2d.	2/8	6d.	5/7	1/1
1/-	2 1/2d.	2/9	6 1/2d.	5/9	1/1 1/2
1/1	2 1/2d.	2/10	6 1/2d.	6/-	1/2
1/3	3d.	3/-	7d.	6/3	1 1/2 1/2
1/4	3d.	3/1	7d.	6/6	1/3
1/5	3 1/2d.	3/6	8d.	6/9	1/3 1/2
1/6	3 1/2d.	3/9	8 1/2d.		
1/7	4d.	4/-	9 1/2d.		
1/8	4d.	4/1	9 1/2d.		
2/-	4 1/2d.	4/3	10d.		

EKCO FLUORESCENT TUBES

Group 9

Tube Type	List Price s. d.	New P.T. s. d.
5ft. 80w. Standard	13 0	2 8
4ft. 40w. Standard	11 9	2 5
3ft. 30w. Standard	11 0	2 3
2ft. 40w. Standard	11 0	2 3
2ft. 20w. Standard	10 6	2 2
18" 15w. Standard	9 9	2 0
5ft. 80w. Coloured, U.V. & Coronation	17 6	3 7
4ft. 40w. Coloured, U.V. & Coronation	17 0	3 6
3ft. 30w. Coloured	16 6	3 5
2ft. 40w. Coloured	16 0	3 3 1/2
2ft. 20w. Coloured & U.V.	15 0	3 1
18" 15w. Coloured	15 0	3 1
EXTRAS		
Quickstart (Sylcoated)	6	1 1/2
Instant Start (Metal Strip)	1 0	2 1/2

CONDITIONS OF SALE

All orders for Lighting Products are accepted and executed on the understanding that the purchaser is bound by the following Conditions of Sale which shall constitute a binding contract.

PRICES AND DISCOUNT. Subject to alteration by us without notice. All lighting Products will be invoiced at prices current at the date of despatch by us irrespective of prices ruling at the time of acceptance of order. Re-sellers of our Lighting Products shall sell our Lighting Products at our current prices less the appropriate discounts as authorised by us and not otherwise.

PAYMENT. 2½ per cent settlement discount allowed for payment of accounts (less Purchase Tax) not later than the end of the month following date of invoice, unless otherwise stated by us in writing. Approved purchasers desiring to open credit accounts should furnish two satisfactory trade references and name and address of Bankers.

CARRIAGE AND PACKING. Tungsten Filament Lamps, Fluorescent Tubes, Sodium and Mercury Discharge Lamps, Fluorescent Fittings, Control Gear, Plastalux Shades, and Tungsten Industrial Reflectors delivered carriage free to any part of Great Britain and Northern Ireland. Tungsten Glass Diffusing Units of a net value of £10 and over will be delivered free. Orders of less than £10 net value will be charged with carriage and packing. All packing cases used will be charged and credited on return to the sending Depot.

When special delivery arrangements are requested, the difference between goods and special rates will be charged.

LOSS OR DAMAGE IN TRANSIT. In the event of loss or damage in transit, it is essential that carriers and our despatching depot be advised within three days of receipt of goods.

Irrespective of conditions of packing, goods and packing should be held for inspection by carriers before return. After inspection, carriers should accept goods for return to sending depot, carriage free.

The following details should be sent to us:

Advice Note number	Date carrier advised.
Date consignment received.	Condition of package.
Carrier's name.	Damage or shortage.

In the event of non-delivery carriers and our despatching depot should be advised within ten days of date of advice note.

EKCO-ENSIGN ELECTRIC LTD. will not be responsible for goods lost or damaged in transit unless these directions are observed.

DELIVERY. Every effort will be made on our part to meet customers' demands as regards deliveries and it must be understood that all orders are accepted by us on this understanding and that we are not to be held responsible in damages or otherwise for failure or delay in delivery resulting wholly or in part from fire, strikes or from any breakdown in transit that may occur either to or from our Works or from the unavoidable total or partial stoppage of works, or from war or failure in supply of raw material or from any other cause beyond our reasonable control. Goods supplied to customers firm orders cannot be returned without our written consent.

DEFAULT. We shall have the right to discontinue delivery and also at our discretion to determine the contract in respect of any undelivered goods if the customer defaults in payment.

GUARANTEE. Ekco and Ensign lamps, fittings and control gear conform with the current British Standards, where applicable, and to the highest standards of efficiency and manufacture. Any Ekco or Ensign lamps, fittings or control gear proved defective through faulty material or workmanship, will be replaced or the value credited at our option provided that they have been used under the correct operating conditions and that such lamps, fittings and control gear are returned to our nearest Depot carriage paid and duly advised. We shall not be responsible or answerable for any personal injuries or consequential or resulting liability, damage or loss arising from any defects of our products.

EXPORT. No Lighting Products supplied hereunder shall be exported directly or indirectly without our written consent. Such consent, when given, will be subject to our Conditions for Export Sales.

LEGAL CONSTRUCTION. This contract shall be construed according to the law of England and if any question dispute or difference shall arise between the parties hereto in respect of the construction of this Agreement of their respective rights duties or liabilities hereunder the same shall be referred to a single arbitrator in London in case the parties can agree upon one but otherwise the same shall be referred to arbitration in London under the provision of the Arbitration Acts 1889 to 1934 or any statutory modification or re-enactment thereof which said provisions shall also apply to the case of a reference to a single arbitrator.

DESIGN ALTERATIONS. The equipment and lamps supplied may vary slightly in detail from the illustrations and descriptions as the result of improvement in design or changes in technique.

LAMP GROUPS CLASSIFICATION

Group I

Aircraft Landing
Broadside
Candle and Tubular
Clear (G.L.S.)
Colour Sprayed (G.L.S.)
Hospital Theatre
Infra Red
Light Tubes (other than fluorescent)
Neon
Pearl (G.L.S.)
Photo-pearl, Photo-flood
Photo-enlarger
Projector Class A1
Projector Class A3, B1, E and F
Projector Class C
Reflector Spotlight and Floodlight
Sign
Silverlight and Softlight
Studio (photographic)
Switchboard Indicator
Theatre Spotlight
Traction and Rough Service
Traffic Signal
Tubular Floodlight (Class FL Projector)

Group II

Aircraft Lamps (except landing and certain indicator)
Bus Interior
Car Headlamps
Car Side and Tail
Car Stop, Indicator and Festoon
Police

Group III

Flashlamps

Group IV

Cycle Dynamo

Group V

Miners

Group VI

Decoration Sets

Group VII

Certain Aircraft Indicator

Group IX

Fluorescent Tubes
Mercury Vapour
Sodium Vapour

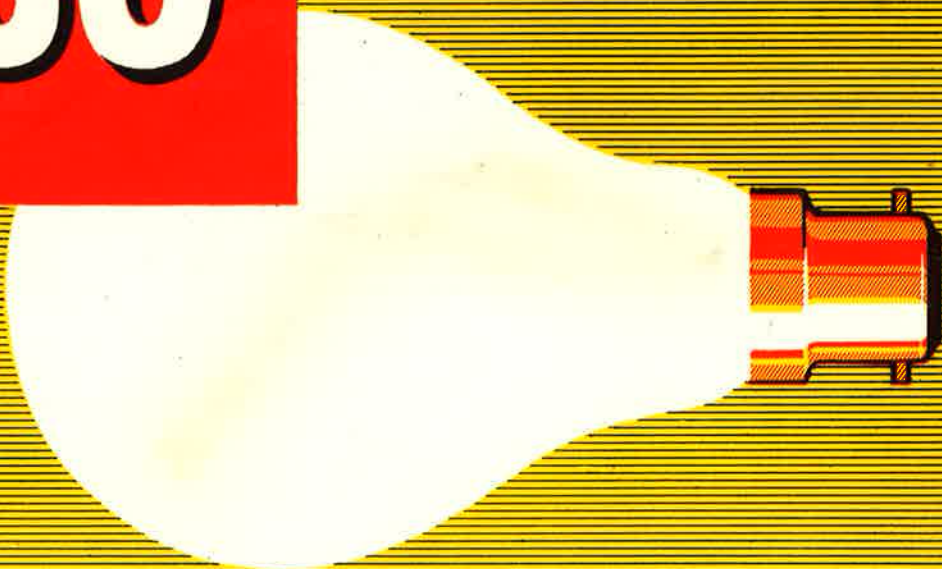
Group X

Radio Panel
Certain Aircraft Indicator

Unclassified

Cold Cathode
Photoflash

EKCO



LAMPS and TUBES

ISSUED SEPT 1956

PRICE LIST AND CATALOGUE

EKCO LAMPS

Price List

SEPTEMBER 1956

Per Pro
ELECTRICAL & RADIO FACTORS (Scunthorpe)

B.S.I. Licence for Ekco Tungsten Filament Lamps.

All Ekco lamp factories are licensed to manufacture general service tungsten filament lamps under the British Institution's Certification Scheme.

The Institution is satisfied that the quality control arrangements in each factory ensure that lamps meet the requirements of British Standard 161-1956. Independent tests undertaken at the National Physical Laboratory also maintain a constant check on the quality of Ekco lamp production.

EKCO - ENSIGN ELECTRIC LTD
45 ESSEX STREET • STRAND • LONDON • W.C.2

GENERAL SERVICE LAMPS

SINGLE COIL LAMPS

Colour Spraying (Blue, Flame, Green, Orange, Pink, Red, White and Yellow.

Extra cost per lamp above Clear Lamp list prices:

5/25w.	2d.
40/75w.	3d.
100w.	4d.
150w.	9d.
200w.	1/6
300w.	1/9
500w.	2/3
750w.	2/6
Bowl Frosting:	
200w.	1/-
300w.	1/3
500w.	1/6
750w.	1/9
1000w.	2/6
1500w.	2/6

Group I	Standard Cap	200, 210, 220, 230, 240, 250, 260 volts		100, 110, 115, 120, 130 volts		6, 12, 25, 35, 50, 55, 60, 65, 75, * 150 volts	
Wattage		Clear	Pearl	Clear	Pearl	Clear	Pearl
15 or 25	B.C.	1/6½	1/6½	1/6½	1/6½	1/11	1/11
40 or 60	B.C.	1/4½	1/4½	1/6½	1/6½	2/3	2/3
75	B.C.	1/10	1/10	2/-	2/-	3/-	3/-
100	B.C.	1/10	1/10	2/-	2/-	3/3	3/3
150	B.C.	2/7	2/7	2/9	2/9	5/-	5/-
200	E.S.	3/9	3/9	4/3	4/3	7/6	7/6
300	G.E.S.	7/6	8/6	8/-	9/-	11/-	12/-
500	G.E.S.	10/-	11/-	10/6	11/6	14/-	—
750	G.E.S.	14/6	16/-	14/6	16/-	19/-	—
1000	G.E.S.	16/-	—	16/-	—	—	—
1500	G.E.S.	22/6	—	22/6	—	—	—

*Minimum lower voltages vary with size of lamp—see main EKCO lamp catalogue.

SILVERLIGHT LAMPS

A lamp with an internal silica coating, giving maximum diffusion with minimum loss of light. Eminently suitable for domestic interiors and all places where a soft diffused shadow free light is required.

Group I	Voltages: 200, 210, 220, 230, 240, 250, 260				
Wattage	40	60	100	150	200
Cap.	B.C.	B.C.	B.C.	B.C.	E.S.
List Price	1/7½	1/7½	2/1	3/1	4/3

Colour lamps with an internal silica coating are available in 200/260v. 15w. and 25w. sizes (both bulbs 55 mm. dia.) in colours:—Blue, Flame, Green, Orange, Pink, Red, White and Yellow. List Price—1/8½d.

SOFTLIGHT LAMPS

A soft toned lamp for use in the home and all other locations where a restful atmosphere is needed.

Group I	Voltages: 200/220, 230/240, 250/260		
Wattage	60	100	150
Cap	B.C.	B.C.	B.C.
List Price	1/7½	2/1	3/1

COILED COIL LAMPS

Group I	200, 210, 220, 230, 240, 250, 260 volts - Standard cap - B.C. Pearl bulbs only			
Wattage	40w.	60w.	75w.	100w.
List Price	1/9	1/9	2/1½	2/1½

ECONOMY LAMPS

Group I	Voltage range	200/260	List Price
Wattage	5-8 according to applied voltage		
Bulb (Pearl only)	55 mm. (2⅞ in.) diameter		
Cap	B.C.		

THEATRE BATTEN LAMPS

(Samlloff Type)

Group I	Voltages: 100, 110, 120, 130, 200, 210, 220, 230, 240, 250		
Dimensions for all sizes: Length: 5½ in. Diam.: 2⅞ in. Light centre length: 4½ in. Standard cap - B.C.			
Wattage	60	100	150
List Price	2/6	2/9	5/-

Note: All prices quoted are list prices to which Purchase Tax, where applicable, must be added as shewn in P.T. Schedule on page 12.

GENERAL SERVICE LAMPS

SINGLE COIL LAMPS

Colour Spraying (Blue, Flame, Green, Orange, Pink, Red, White and Yellow).

Extra cost per lamp above Clear Lamp list prices:

5/25w.	...	2d.
40/75w.	...	3d.
100w.	...	4d.
150w.	...	9d.
200w.	...	1/6
300w.	...	1/9
500w.	...	2/3
750w.	...	2/6
Bowl Frothing:		
200w.	...	1/-
300w.	...	1/3
500w.	...	1/6
750w.	...	1/9
1000w.	...	2/6
1500w.	...	2/6

Group I	Standard Cap	200, 210, 220, 230, 240, 250, 260 volts		100, 110, 115, 120, 130 volts		6, 12, 25, 35, 50, 55, 60, 65, 75, * 150 volts	
Wattage		Clear	Pearl	Clear	Pearl	Clear	Pearl
15 or 25	B.C.	1/6½	1/6½	1/6½	1/6½	1/11	1/11
40 or 60	B.C.	1/4½	1/4½	1/6½	1/6½	2/3	2/3
75	B.C.	1/10	1/10	2/-	2/-	3/-	3/-
100	B.C.	1/10	1/10	2/-	2/-	3/3	3/3
150	B.C.	2/7	2/7	2/9	2/9	5/-	5/-
200	E.S.	3/9	3/9	4/3	4/3	7/6	7/6
300	G.E.S.	7/6	8/6	8/-	9/-	11/-	12/-
500	G.E.S.	10/-	11/-	10/6	11/6	14/-	—
750	G.E.S.	14/6	16/-	14/6	16/-	19/-	—
1000	G.E.S.	16/-	—	16/-	—	—	—
1500	G.E.S.	22/6	—	22/6	—	—	—

*Minimum lower voltages vary with size of lamp—see main EKCO lamp catalogue.

SILVERLIGHT LAMPS

A lamp with an internal silica coating, giving maximum diffusion with minimum loss of light. Eminently suitable for domestic interiors and all places where a soft diffused shadow free light is required.

Group I	Voltages: 200, 210, 220, 230, 240, 250, 260				
Wattage	40	60	100	150	200
Cap.	B.C.	B.C.	B.C.	B.C.	E.S.
List Price	1/7½	1/7½	2/1	3/1	4/3

Colour lamps with an internal silica coating are available in 200/260v. 15w. and 25w. sizes (both bulbs 55 mm. dia.) in colours:—Blue, Flame, Green, Orange, Pink, Red, White and Yellow. List Price—1/8½d.

SOFTLIGHT LAMPS

A soft toned lamp for use in the home and all other locations where a restful atmosphere is needed.

Group I	Voltages: 200/220, 230/240, 250/260		
Wattage	60	100	150
Cap	B.C.	B.C.	B.C.
List Price	1/7½	2/1	3/1

COILED COIL LAMPS

Group I	200, 210, 220, 230, 240, 250, 260 volts – Standard cap – B.C. Pearl bulbs only			
40w.	60w.	75w.	100w.	
1/9	1/9	2/1½	2/1½	

ECONOMY LAMPS

Group I	200/260	List Price
Voltage range		
Wattage	5–8 according to applied voltage	
Bulb (Pearl only)	55 mm. (2¼ in.) diameter	
Cap	B.C.	1/8

THEATRE BATTEN LAMPS

(Samlloff Type)

Group I	Voltages: 100, 110, 120, 130, 200, 210, 220, 230, 240, 250		
Dimensions for all sizes: Length: 5½ in. Diam.: 2¼ in. Light centre length: 4½ in. Standard cap – B.C.			
Wattage	60	100	150
List Price	2/6	2/9	5/-

Note: All prices quoted are list prices to which Purchase Tax, where applicable, must be added as shewn in P.T. Schedule on page 12.

ROUGH SERVICE LAMPS

Group I						
The Ekco rough service lamp has the filament supported in a special manner to withstand vibration and other severe conditions. Standard Cap - B.C. or E.S. Clear or Pearl. Old type 60w. bulb to special order for Government departments and similar bodies.						
Wattage	Length ins.	Diam. ins.	Type	List Price		
				25, 35, 50, 55, 60, 65, 75 and 150 volts	100, 110, 120, 130 volts	200, 210, 220, 230, 240, 250, 260 volts
25	3 $\frac{1}{8}$	2 $\frac{3}{8}$	Vacuum	2/9	2/-	2/-
30	4 $\frac{1}{8}$	2 $\frac{3}{8}$	Vacuum	2/9	1/9	—
40 & 60	4 $\frac{1}{8}$	2 $\frac{3}{8}$	Vacuum	2/9	2/-	2/-
100	5 $\frac{1}{8}$	2 $\frac{3}{8}$	Gasfilled	—	—	2/9

All Ekco traction lamps are designed to withstand voltage fluctuations and rough usage met under service conditions.



DAYLIGHT AND NATURAL COLOURED GLASS LAMPS

NATURAL COLOURED GLASS LAMPS

Group I				
Standard voltages - 100, 110, 120, 130, 200, 210, 220, 230, 240, 250, 260 Cap - B.C.				
Wattage	List Price			
	Ruby	Green	Amber	Blue
15 and 25	6/6	4/-	3/6	3/-
40 and 60	6/6	3/9	3/3	2/9
100	8/-	4/9	4/-	3/3



DAYLIGHT LAMPS

Group I									
100, 110, 120, 130, 200, 210, 220, 230, 240, 250, 260 volts									
Wattage	15/25	40	60	75	100	150	200	300	500
Standard cap	B.C.	B.C.	B.C.	B.C.	B.C.	B.C. or E.S.	E.S.	G.E.S.	G.E.S.
List Price	2/8	2/5	2/5	3/3	3/6	5/-	7/9	12/-	15/6



DECORATIVE LIGHTS FOR ALL FESTIVE OCCASIONS

Group VI JOYLIGHTS

Comprising a set of 12 shades and 13 3-watt lamps (1 spare lamp per set) wired in series for 200/250 volts, with B.C. plastic adaptor. 25/- per set plus 5/1 $\frac{1}{2}$ purchase tax. Spare lamps 1/- each plus 2 $\frac{1}{2}$ d. Purchase Tax.

Group VI DECORATION LIGHTS

Comprising 12 3-watt lamps (plus 1 spare lamp per set) wired in series for 200/250 volts, with B.C. plastic adaptor. 17/1 per set plus 3/6 purchase tax. Both sets are packed in an attractive and colourful display carton. Spare lamps 1/- each plus 2 $\frac{1}{2}$ d. Purchase Tax.



CANDLE LAMPS

CANDLE LAMPS

Group I					
Standard Voltages: 100, 110, 120, 130, 200/220, 230/240, 250/260 Standard caps: B.C., S.B.C., S.E.S.					
Wattage	Shape	Length ins.	Diam. ins.	List Price	
				Clear	Colour Sprayed or Frosted
25	Olive, plain *	4 $\frac{1}{8}$	1 $\frac{1}{8}$	2/6	3/-
25	Olive, twisted	4 $\frac{1}{8}$	1 $\frac{1}{8}$	3/-	3/6
40	Olive, plain	5 $\frac{1}{8}$	1 $\frac{3}{8}$	3/-	3/6
40	Olive, twisted	5 $\frac{1}{8}$	2 $\frac{3}{8}$	3/6	4/-

* Also available 50v. and 60/80v. Clear 4/9, Colour Sprayed or Frosted 4/11.



SIGN, PYGMY SIGN & SWITCHBOARD INDICATOR LAMPS

PYGMY SIGN LAMPS

Group I			
Standard Cap	Diameter ins.	Overall Length of Lamps ins.	
B.C.	1 $\frac{1}{8}$	2 $\frac{3}{8}$	
E.S.	1 $\frac{1}{8}$	2 $\frac{1}{2}$	
S.B.C.	1 $\frac{1}{8}$	2 $\frac{7}{8}$	
S.E.S.	1 $\frac{1}{8}$	2 $\frac{1}{2}$	

Type	25, 50, 60, 65, 75, 150 volts	110, 130, 200/220, 230/240, 250/260 volts
Clear	2/5	1/10
Colour Sprayed	2/7	2/-
*Natural ruby glass	6/-	5/6
*Natural green glass	5/3	4/9
*Natural amber glass	5/3	4/9
*Natural blue glass	5/-	4/6

* Natural coloured glass pygmy sign lamps are supplied to order. They are not normally held in stock.

SWITCHBOARD INDICATOR LAMPS

These lamps are similar in all respects to B.C. Pygmy Sign lamps except that they have a life of several thousand hours. The nominal wattage is 15, but this will vary according to voltage. The lamps are marked "Switchboard Indicator".

Group I	List Price	
Voltage	Clear	Colour Sprayed
100/130	2/3	2/5
200/260	2/3	2/5

Standard Cap—B.C.

SIGN LAMPS

Dia. 44 mm.
Overall length 90 mm.
Standard cap—B.C. or E.S.
Standard Voltages: 100/110, 120/130, 200/220, 230/240, 250/260. 15w.

Voltage	List Price	
	Clear	*Colour Sprayed
100/130	1/10	2/1
200/260	1/7	1/10

* Colour range on page 2

TUBULAR LAMPS

TUBULAR double cap

Standard Cap - Single contact (S 15s). 110, 120, 200/220, 230/240, 250/260 volts. Diameter for all sizes 25 \pm 1mm. (1 in.). Colour spraying - standard colours as for clear lamps.

Group I	Length		List Price	
Wattage	mm.	in.	Clear	Colour Sprayed
30	221 \pm 1	8 $\frac{11}{16}$	5/9	6/1
30	284 \pm 1	11 $\frac{3}{8}$	5/9	6/1
60	221 \pm 1	8 $\frac{11}{16}$	6/-	6/4
60	284 \pm 1	11 $\frac{3}{8}$	6/-	6/4

TUBULAR single cap

Standard Voltages: 15w. and 25w.: 110, 120, 200/220, 230/240, 250/260 volts. 40 and 60w.: 200/220, 230/240, 250/260 volts. Colour spraying - standard colours as for clear lamps.

Group I	Length	Diam.	Standard Cap	List Price
Wattage	in.	in.		
15 or 25*	3 $\frac{3}{8}$	1	B.C., S.B.C., E.S. S.E.S.	Clear 3/9 Colour Sprayed 4/- Opal 8/6 Opal Colour Sprayed 9/6
40 or 60	11 $\frac{1}{2}$	1 $\frac{1}{2}$	B.C.	

* 25w. lamp also available. 23, 35, 50, 55, 60, 65, 75, 150v
List price 4/9 clear. Colour sprayed 5/-

NEON LAMPS

NEON LAMPS

Not subject to Purchase Tax.

Group I		Standard voltages : 100/130, 200/260,		Dimensions		List Price
Type	Wattage	Standard Cap	Length ins.	Diam. ins.		
Cruciform (Red Lacquered)	1-0	B.C.	3 $\frac{3}{8}$	1 $\frac{1}{8}$	5/-	
Star of David (Red Lacquered)	1-0	B.C.	3 $\frac{3}{8}$	1 $\frac{1}{8}$	5/-	
Normal Lighting	5-0	B.C.	4 $\frac{1}{2}$	2 $\frac{3}{8}$	4/6	
Indicators	Large Disc	0-5	B.C.	2 $\frac{3}{16}$	1 $\frac{1}{8}$	4/-
			E.S.	2 $\frac{3}{16}$	1 $\frac{1}{8}$	
	Small Spiral	0-5	S.B.C.	2 $\frac{1}{8}$	1 $\frac{1}{8}$	4/-
			S.E.S.	2 $\frac{3}{16}$	1 $\frac{1}{8}$	
	Small Disc	0-5	S.B.C.	2 $\frac{1}{8}$	1 $\frac{1}{8}$	4/-
			S.E.S.	2 $\frac{3}{16}$	1 $\frac{1}{8}$	
Indicator—Miniature *	—	M.B.C.	1 $\frac{1}{8}$	3 $\frac{3}{32}$	4/-	

* For use on 200/260v. supplies—must be in series with a one megohm resistor.



REFLECTOR LAMPS

SPOTLIGHT & FLOODLIGHT

Group I
Standard Voltages: 110, 200, 210, 220, 230, 240, 250.

Type	Wattage	Cap	Length		Diameter		List Price
			mm.	ins.	mm.	ins.	
Spotlight	150	E.S.	176 ± 6.5	6 $\frac{13}{16}$	126 ± 1.5	4 $\frac{13}{16}$	15/6
Floodlight	150	E.S.	176 ± 6.5	6 $\frac{13}{16}$	126 ± 1.5	4 $\frac{13}{16}$	15/6
Spotlight	75	B.C.	129 ± 3	5 $\frac{1}{16}$	95 ± 1	2 $\frac{7}{16}$	7/-



TRACTION LAMPS

BUS, COACH & YACHT LAMPS

Standard Cap - B.C. or S.B.C. Clear or Pearl			
Group II	Wattage	List Price	
Voltage		38 mm. bulb	50 mm. bulb
12	10	2/4	2/4
12	12	2/-	2/4
12	20	—	2/9
12	24	—	2/11
12	36	—	2/11
24	12	2/1	2/1
24	15	2/9	2/9
24	20	2/4	2/9
24	24	2/11	2/11
24	36	2/11	2/11
24	48	3/6	3/6
24	60	5/10	5/10



TROLLEY BUS LAMPS

Standard Voltages:
30, 35, 40.

Cap—B.C. (B22d/21 × 26)
Clear or Pearl.

Group I	List Price		
Wattage	22 mm. bulb	38 mm. bulb	50 mm. bulb
6	2/6	—	—
6	—	2/6	2/6
15	—	2/9	2/9
20	—	3/-	3/-
36	—	4/-	4/-



Note: All prices quoted are list prices to which Purchase Tax, where applicable, must be added as shown in P.T. Schedule on page 12.

TRACTION LAMPS (continued)

LAMPS FOR TRAMCARS, TRAINS & SIMILAR LOCATIONS (Series Traction Lamps)

These lamps are marked with their rated current and only those having the same current should be connected to each other in series.
100, 110, 120, 130 volts. Standard Cap - B.C., E.S.
CLEAR OR PEARL

Group I Current-Amps	Nominal Wattage	Length, ins.	Diam., ins.	List Price
0.27	30	4 $\frac{1}{8}$	2 $\frac{3}{8}$	1/9
0.35	40	4 $\frac{1}{8}$	2 $\frac{3}{8}$	1/9
0.52	60	4 $\frac{1}{8}$	2 $\frac{3}{8}$	1/9

TRAFFIC SIGNAL LAMPS

Group I For use in road traffic signals
Standard Voltages: 100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250, 260 volts. Clear bulbs only.

Wattage	Length	Diameter	Light Centre Length	Standard Cap	List Price
60	mm. 117.5±3.5	mm. 65±1	85±3	B.C.	2/-
60	108±3.5	65±1	62±3	E.S.	2/-

All Ekco traction lamps are designed to withstand voltage fluctuations and rough usage met under service conditions.

PROJECTOR LAMPS

CLASS A1 (Tubular Bulbs)—for film and slide projectors.

CLASS B1 (Round Bulb)—for floodlights, theatre spotlights.

CLASS B2 (General Service Bulb)—Bunched filaments for floodlights.

CLASS E (Round Bulb)—Grid filament for epidiascopes.

CLASS F (Round Bulbs)—For microscopes and similar apparatus.

CLASS FL (Tubular Bulbs)—Line filament for horizon and similar floodlights.

CLASS G (Pear & Tubular Bulbs)—Exciter lamps for sound film apparatus.

For full details of all Ekco Projector Lamps, see illustrated catalogue, ref. TC/56.



TELEPHONE SWITCHBOARD INDICATOR LAMPS

TELEPHONE SWITCHBOARD INDICATOR LAMPS

These lamps are made in accordance with British Standard 1050, 1953, 'Visual Indicator Lamps', except the 12v. lamp which has a tungsten filament. Average specified life: 1,000 hours.

Group VII Volts	Amps	End Pieces		Lumens	List Price
		Colour	Colour Code*		
4	0.250	Green	267	3.7	2/2
6	0.041	Grey	631	0.7	2/2
12	0.100	Red†	538	3.0	2/2
17	0.045	Orange	557	1.8	2/2
24	0.100	Yellow	355	6.0	2/2

* B.S. 381C. Colours for ready-mixed paints.

† Alternative—Yellow mottle.



FLASH LAMPS & RADIO PANEL LAMPS

FLASHLAMPS

Standard Cap M.E.S.
—clear round bulbs

Group X Volts	Amps	Diameter \pm 1 mm.	Overall Length max. mm.	List Price
4.5	0.3	15	27.5	4d.
4.0	0.3	11	24	4d.
3.5	0.3	11	24	4d.
3.5	0.15	11	24	4d.
2.5	0.3	11	24	4d.
2.5	0.2	11	24	4d.



RADIO PANEL LAMPS

Standard Cap M.E.S.
—clear bulbs

Group X Volts	Amps	Bulb Diameter \pm 1 mm.	Overall Length	Bulb Shape	List Price
3.5	0.15	11		Round	7d.
6	0.04 or 0.06	11		Round	1/-
6.2	0.3	15		Round	7d.
6.3	0.11	11		Round	7d.
6.3	0.15	11		Round	7d.
6.5	0.3	11 or 15		Round	7d.
8	0.15	11 or 15		Round	9d.
4	0.3	10		Tubular	1/-
6.2	0.3	10		Tubular	7d.
6.3	0.15	10		Tubular	7d.
6.5	0.3	10		Tubular	7d.



PHOTOFLOOD & PHOTOGRAPHIC LAMPS

PHOTOFLOOD LAMPS

Group I			
Wattage	275	500	500
Standard Voltages	100/110, 200/210, 220/230, 240/250		
Approximate Life	3 hrs.	10 hrs.	100 hrs.
Standard Cap	B.C. or E.S.	B.C. or E.S.	E.S.
List Price	2/6	6/6	22/-

HIGH INTENSITY OPAL ENLARGING LAMP

Standard Voltages: 110, 210, 230, 240, 250. Cap: B.C. or E.S. Average life 100 hours.

Group I Watts	List Price
150	4/6



CYCLE DYNAMO LAMPS

HEADLAMPS

Group IV Voltage	Current	Cap	List Price
6	amps.		
6	0.3	S.C.C.	1/4
6	0.5	S.C.C.	1/4
6	0.3	M.E.S.	8d.
6	0.5	M.E.S.	8d.
8	0.15	M.E.S.	8d.

TAIL LAMPS

Group IV Voltage	Current	Cap	List Price
6	amps.		
6	0.04	M.E.S.	8d.
6	0.04	M.E.S.	8d.
6	0.03	M.E.S.	8d.
6	0.10	M.E.S.	8d.
6	0.25	M.E.S.	8d.

CAR BULBS

SINGLE FILAMENT HEADLAMPS

Axial Filaments

Overall length 56 mm.—bulb diam. 38 mm., except lamps marked with an asterisk which are 63 mm. x 50 mm.

B.C. available at same price as S.B.C.

Group II Voltage	Wattage	S.C.C.		S.B.C.	
		Lamp Ref. No.	List Price	Lamp Ref. No.	List Price
6	18	11	3/-	—	3/1
6	24	106	2/6	109	2/7
6	30	—	2/9	—	2/10
6	36	108	2/9	111	2/10
12	24	1	2/6	4	2/7
12	36	2	2/6	5	2/7
12	48	23	4/-	27	4/1
12	60*	90	5/6	26	5/7
24	24	—	—	122	4/7
24	36	621	2/6	123	2/7
24	48	623	4/-	140	4/1
24	60*	124	5/6	128	5/7

DOUBLE FILAMENT HEADLAMPS

Double Transverse Filaments

Overall length 56 mm.—bulb diam. 38 mm.
Cap—S.B.C.

Group II Voltage	Wattage	Lamp Ref. No.	List Price
6	18/18	180	4/6
6	24/24	168	3/6
6	30/30	169	3/6
6	36/36	170	3/6
12	36/36	171	3/6
24	36/36	194	4/3

SINGLE FILAMENT BRITISH PREFOCUS HEADLAMPS

Axial and Transverse Filaments

Overall length 62 mm.—bulb diam. 28 mm.
Caps—single contact P22s/21—double contact P22d/21.

Group II Voltage	Wattage	Cap	Filament	Lamp Ref. No.	List Price
6	36	Single Contact	Axial	172	3/9
6	36	Single Contact	Transverse	173	3/9
12	36	Single Contact	Axial	162	3/9
12	38	Single Contact	Transverse	325	3/9
12	38	Double Contact	Transverse	326	3/9
12	48	Single Contact	Axial	185	4/6
12	48	Single Contact	Transverse	323	4/6
24	44	Double Contact	Transverse	330	4/6
24	44	Double Contact	Axial	331	4/6

DOUBLE FILAMENT BRITISH PREFOCUS HEADLAMPS

Double Transverse Filaments

Overall length 62 mm.—bulb diam. 28 mm.
Caps—double contact P22d/21.

Group II Voltage	Wattage	Lamp Ref. No.	List Price
6	24/24	166	4/9
6	30/24	312	5/-
6	36/36	306	4/6
12	42/36	354	4/6
12	44/38	358	5/4
12	48/48	302	6/9
24	44/38	359	5/7

STOP LAMPS

Overall length 46 mm.—bulb diameter 25 mm.

Group II Voltage	Wattage	Cap	Filament	Lamp Ref. No.	List Price
6	18	S.C.C.	Transverse	317	3/9
12	18	S.C.C.	Transverse	221	3/6
12	21	S.C.C.	Transverse	382	3/-
12	24	S.C.C.	Transverse	199	3/6

Note: All prices quoted are list prices to which Purchase Tax, where applicable, must be added as shown in P.T. Schedule on page 12.



STOP & TAIL LAMPS

Overall length 46 mm. — bulb diameter 25 mm.

Group II Voltage	Wattage	Cap	Filament	Lamp Ref. No	List Price
6	18 & 6	S.B.C.	Transverse & Bow	383	3/6
6	18 & 6	S.B.C.*	Transverse & Bow	384	3/6
12	21 & 6	S.B.C.	Transverse & Bow	381	3/6
12	21 & 6	S.B.C.*	Transverse & Bow	380	3/6
24	24 & 6	S.B.C.*	Transverse & Bow	334	3/9

* Offset pins (B15d/19)

SIDE OR TAIL LAMPS

Group II Voltage	Wattage	Bulb Diam. mm.	Overall Length mm.	S.C.C.		S.B.C.	
				Lamp Ref. No.	List Price	Lamp Ref. No.	List Price
6	3	18	32.5	200	1/4	204	1/5
6	6	18	32.5	205	1/6	206	1/7
12	4	18	32.5	—	1/7	—	1/8
12	6	18	32.5	207	1/4	209	1/5
24†	6	18	32.5	149	1/4	150	1/5
6	3	15	27.5	988	1/5*	—	—
12	4	15	27.5	222	1/5*	—	—

* M.C.C. Cap. † B.C. Cap available at same price. Lamp Reference No. 638.

INDICATOR LAMPS

Group II Voltage	Wattage	Bulb Diam. mm.	M.E.S. Cap		M.C.C. Cap	
			Lamp Ref. No.	List Price	Lamp Ref. No.	List Price
6	3.0	11	990	1/1	641	1/2
12	2.2	11	987	1/1	643	1/2
12	2.2	15	986	1/1	645	1/2
16	3.0	15	985	2/3	647	2/6
24	2.8	15	993	1/4	651	1/5

FESTOON (TRAFFICATOR) LAMPS

Voltage	Wattage	Lamp Ref. No.	Cap	Dimensions		List Price
				Length mm.	Diameter mm.	
6	3	255	S7/8	35.5	7.5	2/3
6	6	253	S8.5/8	38	11	2/7
12	3	256	S7/8	35.5	7.5	2/3
12	6	254	S8.5/8	38	11	2/7
24	6	653	S8.5/8	38	11	2/6
†24	6	654	S8.5/8	38	11	3/10
24	6	260	S8.5/8	44	11	2/7

† With Supported Filament.

MERCURY LAMPS

EKCO MERCURY LAMPS

Types MA/V, MB/U and MBF/U

Standard Voltages—
200/220, 230/240, 250 A.C.

Lamp Wattage	Class	Bulb Finish	Cap	Nominal Lumens		List Price
				Initial	Average through life	
80	MB/U	Pearl	3-pin B.C.	3,000	2,350	39/6
125	MB/U	Pearl	3-pin B.C.	5,300	3,900	45/-
250	MA/V	Clear	G.E.S.	8,750	7,750	54/-
400	MA/V	Clear	G.E.S.	16,800	13,600	59/-
80	MBF/U	Fluor.	3-pin B.C.	3,000	2,350	48/6
125	MBF/U	Fluor.	3-pin B.C.	5,300	3,900	59/-
250	MBF/U	Fluor.	G.E.S.	10,000	8,500	120/-
400	MBF/U	Fluor.	G.E.S.	18,000	16,800	180/-

SODIUM LAMPS

All lamps, with appropriate control gear, are suitable for 200/250 V. supplies and are fitted with ceramic bayonet caps—45, 60 and 85W. with B22/S and 140W. with B22/M.

Group IX Lamp Wattage	Wattage with Gear	Nominal Lumens		Dimensions			List Price		
		Initial	Average through life	Overall Length ± 10 mm.	Diameter ± 2 mm.	Light Centre Length ± 10 mm.	Lamp	Vacuum Jacket	Lamp and Jacket
45	65	2,610	2,250	238	50	140	40/-	21/9	61/9
60	80	4,020	3,420	300	50	170	45/-	24/6	69/6
85	105	6,200	5,525	415	50	230	60/-	29/3	89/3
140	165	10,250	9,100	518	65	28	65/-	33/-	98/-

Note: All prices quoted are list prices to which Purchase Tax, where applicable, must be added as shown in P.T. Schedule on Page 12.



FLUORESCENT TUBES

THE EKCO RANGE

Standard Fluorescent tubes, up to and including the 5ft. size, are available in six 'whites' and five colours. Peach and ultra-violet tube are also obtainable.

The latest additions to the range are the reflector tubes and the 8ft. tube.

WHITES

White (3500°K) tubes are recommended for all general lighting purposes because they are of a colour between daylight and warm white. They combine a pleasant appearance with good colour rendering of most materials and their efficiency is the highest of the 'white' range.

Warm White tubes provide light of a warmer tone than white, daylight or natural tubes and they are recommended for use in commerce and industry, particularly where the colour of the other tubes appears to be somewhat 'cold'. Their efficiency is nearly equal to white (3500°K) tubes.

De-Luxe Warm White tubes radiate a soft mellow light which is kind to the complexion and makes food, furnishings and other commodities look attractive. They blend well with tungsten lighting and are eminently suitable for restaurants, cinema and theatre foyers, entrance lobbies and the home, and also other locations where a cordial, intimate atmosphere is desirable.

Peach Tubes have been superseded by de-luxe warm white tubes, but all sizes of peach tubes are still available.

Daylight (4500°K) tubes are used mainly in industry to supplement inadequate natural lighting and to provide artificial daylight conditions after dark.

Natural tubes are for use in commerce and industry where the discrimination and grading of colours are of importance. They give a close approximation to natural daylight.

Northlight (6500°K Colour Matching) tubes simulate north sky daylight and are suitable for many colour matching purposes.

COLOURS

Five standard colours are available, Green, gold, blue, red, and pink. Two and three section coloured tubes can be manufactured in bulk quantities, to order. For three section tubes, the centre section must be white.

U.V. TUBE

Ultra-Violet tubes are for the irradiation of fluorescent paints and similar substances and a screen of Woods glass or similar material is required to filter out the visible light. The radiation from these tubes is normally harmless, but prolonged exposure of the eyes to the rays should be avoided.

Ultra-violet tubes are available only in 80w. 5ft., 40w. 4ft. and 20w. 2ft. sizes.

REFLECTOR TUBES

Available in white (3500°K), warm white and natural only in 80w. 5ft. and 40w. 4ft. sizes, these reflector tubes are similar to a standard tube, except that the major portion is covered with an internal white reflector backing which directs all the light through a window of approximately 120°.

125W. 8FT. TUBE

Available in White, Warm White, Daylight and Natural only, this tube is for use in installations requiring long continuous lines of light.

QUICKSTART & INSTANT START TUBES

Three types of tubes are available as below:—

1. Standard

This is the tube for all switchstart circuits and it is normally supplied unless other types are ordered.

2. Quickstart (Sylcoated)

This tube has a colourless water repellant coating and should be used in Quickstart circuits where there is an earthed metal surface along the length of the tube and not more than 2" away from it.

The details given against every Ekco fluorescent lighting fitting indicate which type of tube is required for Quickstart operation. Gold, Red and Ultra Violet tubes are not available as Quickstart tubes.

3. Instant Start (Metal Strip)

This tube is required for a Quickstart circuit when there is not an adjacent earthed surface permitting the use of the Quickstart (sylcoated) tube. The metal strip must be earthed and this is normally carried out by means of an earthed lampholder.

Where Instant Start (metal strip) tubes are recommended for Ekco fluorescent lighting fittings one of the lampholders on the fitting is earthed.

PRICE LIST

Tube Size ...	125w. 8ft.	80w. 5ft.	40w. 4ft.	30w. 3ft. 1½" and 1" dia.	40w. 2ft.	20w. 2ft.	15w. 1½ft. 1½" and 1" dia.
Whites ...	25/-	13/-	11/9	11/-	11/-	10/6	9/9
Purchase Tax ...	—	2/8	2/5	2/3	2/3	2/2	2/-
Colours* ...	—	17/6	17/-	16/6	16/-	15/-	15/-
Ultra Violet ...	—	17/6	17/-	—	—	15/-	—
Purchase Tax ...	—	3/7	3/6	3/5	3/3½	3/1	3/1
Reflector Tubes ...	—	14/9	13/9	—	—	—	—
Purchase Tax ...	—	3/0½	2/10	—	—	—	—

* U.V. Tubes available only in 5ft., 4ft. and 20w. 2 ft. sizes.

EXTRAS: Quickstart (Sylcoated) 6d. extra per tube plus 1½d. Purchase Tax (except 40w. 2ft. where the Standard Type is Sylcoated).

Instant start (Metal Strip) 1/- extra per tube plus 2½d. Purchase Tax. (Stock sizes 80w. 5ft. and 40w. 4ft. Others to order).

Satisfactory operation of Ekco fluorescent tubes is assured with control gear manufactured or approved by Ekco-Ensign Electric Ltd. Ekco 80w. fluorescent tubes are normally supplied in cartons of 12 tubes. All other sizes in cartons of 24.

DOUBLE-LIFE GUARANTEE

EKCO 'double-life' fluorescent tubes have a rated average life of 5,000 hours. Subject to use with approved control gear under correct operating conditions, tubes failing through defective material or workmanship will be credited in full or replaced free of charge, at our option, should failure occur within twelve months of the date of purchase or a life of 3,000 hours, whichever is the less.

Pro-rata replacement or credit for tubes failing between 3,000 and 5,000 hours will not be given. Experience has shown that the number of tubes failing at this stage is compensated for by the many tubes lasting beyond 5,000 hours.

CONDITIONS OF SALE

All orders for Lighting Products are accepted and executed on the understanding that the purchaser is bound by the following conditions of Sale which shall constitute a binding contract.

PRICES AND DISCOUNTS.—Subject to alteration by us without notice. All Lighting Products will be invoiced at prices current at the date of despatch by us irrespective of prices ruling at the time of acceptance of order. Re-sellers of our Lighting Products shall sell our Lighting Products at our current prices less the appropriate discounts as authorised by us and not otherwise.

PAYMENT.—2½ per cent settlement discount allowed for payment of accounts (less Purchase Tax) not later than the end of the month following date of invoice, unless otherwise stated by us in writing.

Approved purchasers desiring to open credit accounts should furnish two satisfactory trade references and name and address of Bankers.

CARRIAGE AND PACKING.—Tungsten Filament lamps, Fluorescent Tubes, Sodium and Mercury Discharge lamps, Fluorescent Fittings, Control Gear, Platalux Shades, and Tungsten Industrial Reflectors delivered carriage free to any part of Great Britain and Northern Ireland.

Tungsten Glass Diffusing Units of a nett value of £10 and over will be delivered free. Orders of less than £10 nett value will be charged with carriage and packing. All packing cases used will be charged and credited on return to the sending Depot.

When special delivery arrangements are requested, the difference between goods and special rates will be charged. **LOSS OR DAMAGE IN TRANSIT.**—In the event of loss or damage in transit, it is essential that carriers and our despatching depot be advised within three days of receipt of goods.

Irrespective of conditions of packing, goods and packing should be held for inspection by carriers before return. After inspection, carriers should accept goods for return to sending depot, carriage free.

The following details should be sent to us:—

Advice Note number.

Condition of package.

In the event of non-delivery, carriers and our despatching depot should be advised within ten days of date of advice note.

Date carrier advised.

Carrier's name.

Carrier's name.

Carrier's name.

Date consignment received.

Damage or shortage.

Damage or shortage.

Damage or shortage.

DELIVERY.—Every effort will be made on our part to meet customers' demands as regards deliveries and it must be understood that all orders are accepted by us on this understanding and that we are not to be held responsible in damages or otherwise for failure or delay in delivery resulting wholly or in part from fire, strikes or from any breakdown in transit that may occur either to or from our Works or from the unavoidable total or partial stoppage of works, or from war or failure in supply of raw materials or from any other cause beyond our reasonable control.

Goods supplied to customers' firm orders cannot be returned without our written consent.

DEFAULT.—We shall have the right to discontinue delivery and also at our discretion to determine the contract in respect of any undelivered goods if the customer defaults in payment.

GUARANTEE.—Ekco and Ensign lamps, fittings and control gear conform with the current British Standards, where applicable, and to the highest standards of efficiency and manufacture. Any Ekco or Ensign lamps, fittings or control gear proved defective through faulty material or workmanship will be replaced or the value credited at our option provided that they have been used under the correct operating conditions and that such lamps, fittings and control gear are returned to our nearest Depot carriage paid and duly advised. We shall not be responsible or answerable for any personal injuries or consequential or resulting liability, damage, or loss arising from any defects of our products.

EXPORT.—No Lighting Products supplied hereunder shall be exported directly or indirectly without our written consent. Such consent, when given, will be subject to our Conditions for Export Sales.

LEGAL CONSTRUCTION.—This contract shall be construed according to the law of England and if any question dispute or difference shall arise between the parties hereto in respect of the construction of this Agreement of their respective rights duties or liabilities hereunder the same shall be referred to a single arbitrator in London in case the parties can agree upon one but otherwise the same shall be referred to arbitration in London under the provision of the Arbitration Acts 1889 to 1934 or any statutory modification or re-enactment thereof which said provisions shall also apply to the case of a reference to a single arbitrator.

DESIGN ALTERATIONS.—The equipment and lamps supplied may vary slightly in detail from the illustrations and descriptions as the result of improvement in design or changes in technique.

All prices quoted in this list are list prices to which Purchase Tax, where applicable, must be added

* All EKCO Lamps are guaranteed to conform to current British Standards.

GENERAL INFORMATION

LAMP CAPS The following abbreviations are those used throughout this folder and should be specified on all orders: B.C.—Bayonet, G.E.S.—Goliath Edison Screw, S.B.C.—Small Bayonet, C.C.—Centre Contact, E.S.—Edison Screw, S.C.C.—Small Centre Contact, S.E.S.—Small Edison Screw

VARIATIONS FROM STANDARD CAPS. Extra charges on List Prices for variations from Standard Caps: For S.B.C., S.E.S., or S.C.C. in place of B.C., E.S., or C.C. ... 3d. each
For G.E.S., in place of B.C. or E.S. or vice-versa ... 1/- each

STANDARD CONTAINERS

15-40 watts	...	100 per carton	60-100 watts	...	50 or 100 per carton
150 watts	...	50 per carton	200 watts	...	50 per carton
300 watts	...	24 per carton	500-1,000 watts	...	12 per carton
1,500 watts	...	6 per carton	Candles and Striplites	...	50 per carton
Economy Lamps	...	12 per display carton, 96 per container			
Cycle Dynamo and Flash Lamps	...	50 per carton			

Ordering by these standard quantities is strongly recommended

ORDERING Please state clearly on all orders: (1) Quantity; (2) Voltage; (3) Wattage; (4) Type of Lamps; (5) Finish; (6) Cap types.

Example: 100, 230v. 60w. G.F. Pearl B.C.

PURCHASE TAX SCHEDULE

NEW PURCHASE TAX SCHEDULES — Operating from October 27th, 1955

Purchase Tax is chargeable on list prices, as follows:—Groups 1 & 6 (up to and including 250w.) 20.5%, Groups 2 & 4 19.1% Radio Panel and Flash Lamp Bulbs 17.6% Projector Lamps B1/1, B1/2 and Class 'F' Micro Projector 20.5% Projector Lamps, Classes A1, E, FL and G, also Neon, Sodium and Mercury Discharge Lamps are free of purchase tax. The following tables have been compiled for quick reference, the tax being quoted to the nearest $\frac{1}{2}$ d. Where Tungsten Filament Lamps are purchased in quantities, the tax must be calculated as a percentage of the gross list value. The tax on quantities of Fluorescent Tubes must be calculated on the basis of Tax per tube.

EKCO TUNGSTEN FILAMENT LAMPS

Groups 1 and 6

List Price	New P.T.	List Price	New P.T.	List Price	New P.T.	List Price	New P.T.	List Price	New P.T.	List Price	New P.T.
6d	1½d	1/9	4½d	2/9	7d	4/3	10½d	7/9	1/7	16/6	3/4½
9d	2d	1/9½	4½d	2/10	7d	4/5	11d	8/-	1/7½	17/-	3/6
1/-	2½d	1/10	4½d	2/11	7½d	4/6	11d	8/6	1/9	17/1	3/6
1/1	3d	1/11	5d	3/-	7½d	4/9	1/-	9/-	1/10	17/6	3/7
1/2	3d	2/-	5d	3/1	8d	4/11	1/-	9/6	1/11½	18/6	3/9½
1/3	3d	2/1	5d	3/2	8d	5/-	1/0½	9/9	2/-	19/3	3/11½
1/4	3½d	2/1½	5½d	3/3	8d	5/3	1/1	10/-	2/0½	25/-	5/1½
1/4½	3½d	2/2	5½d	3/4	8½d	5/9	1/2½	10/6	2/2	28/6	5/10
1/5	3½d	2/3	5½d	3/5	8½d	6/-	1/3	11/-	2/3		
1/6	4d	2/4	6d	3/6	8½d	6/1	1/3	11/9	2/5		
1/6½	4d	2/5	6d	3/7	9d	6/4	1/3½	13/-	2/8		
1/7	4d	2/6	6½d	3/9	9½d	6/6	1/4	15/-	3/1		
1/7½	4d	2/7	6½d	3/11	10d	7/-	1/5½	15/6	3/2		
1/8	4d	2/8	6½d	4/-	10d	7/6	1/6½	16/-	3/3½		

EKCO FLUORESCENT TUBES

Group 9

Tube Type	List Price	New P.T.
	s. d.	s. d.
5ft. 80w. Standard	13 0	2 8
4ft. 40w. Standard	11 9	2 5
3ft. 30w. Standard	11 0	2 3
2ft. 40w. Standard	11 0	2 3
2ft. 20w. Standard	10 6	2 2
18" 15w. Standard...	9 9	2 0
5ft. 80w. Coloured, U.V. & Coronation	17 6	3 7
4ft. 40w. Coloured, U.V. & Coronation	17 0	3 6
3ft. 30w. Coloured	16 6	3 5
2ft. 40w. Coloured	16 0	3 ½
2ft. 20w. Coloured & U.V.	15 0	3 1
18" 15w. Coloured	15 0	3 1
EXTRAS		
Quickstart (Sylcoated)	6	1½
Instant Start (Metal Strip)	1 0	2½

AUTO & CYCLE DYNAMO LAMPS

Groups 2 and 4

List Price	New P.T.	List Price	New P.T.	List Price	New P.T.
4d	1d	2/3	5½d	4/6	10½d
7d	1½d	2/4	5½d	4/9	11d
8d	1½d	2/6	6d	5/-	11½d
8½d	1½d	2/7	6d	5/6	1/0½
9d	2d	2/8	6d	5/7	1/1
1/-	2½d	2/9	6½d	5/9	1/1½
1/1	2½d	2/10	6½d	6/-	1/2
1/3	3d	3/-	7d	6/3	1/2½
1/4	3d	3/1	7d	6/6	1/3
1/5	3½d	3/6	8d	6/9	1/3½
1/6	3½d	3/9	8½d		
1/7	4d	4/-	9½d		
1/8	4d	4/1	9½d		
2/-	4½d	4/3	10d		

Ref: TL/56

Issued Sept. 1956

EKCO-ENSIGN ELECTRIC LIMITED

45 ESSEX STREET, STRAND, LONDON, W.C.2. Tel: CITY 8951

Sales Offices, Illuminating Engineering Depts., Showrooms and Depots:

Southern: 45 Essex Street, London, W.C.2 Tel: City 8951

Northern: Blackett Street, Manchester 12 Tel: Ardwick 4661

Midlands: 68 Caroline Street, Birmingham 3 Tel: Central 2997

E. Midlands: 57 Hounds Gate, Nottingham Tel: Notes 45862

Scottish: 26 India Street, Glasgow, C.2 Tel: Central 2012

Sth. Wales: 50 Bridge Street, Cardiff Tel: Cardiff 33803