

**PHILIPS**

**LAMPS**

**AND  
LIGHTING  
EQUIPMENT**



SEPTEMBER 1952



# PHILIPS ELECTRICAL LTD

HEAD OFFICE AND SHOWROOMS

**CENTURY HOUSE,  
SHAFTESBURY AVE., LONDON, W.C.2**

TELEPHONE  
**GERrard 7777**  
(45 lines)

MEMBERS OF E.L.M.A. AND THE  
LIGHTING SERVICE BUREAU

TELEGRAMS  
"PHILLAMPS"  
PHONE LONDON

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**ALL PRICES SHOWN IN THIS CATALOGUE ARE LIST AND DO NOT APPLY IN EIRE**

*This Edition cancels those prior to Sept. 1st., 1952.*



## PHILIPS LAMPS &amp; LIGHTING EQUIPMENT

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# CENTURY HOUSE

THE HOME OF  
**PHILIPS**

The wide range of electrical products developed, manufactured and distributed by Philips is listed at the back of this catalogue. Here you see something of the vast organisation behind the products. A network of Branches and Depots throughout the country is supported by extensive modern factories and research laboratories.

The manufacture of lamps has been a speciality of the Philips Company for more than sixty years. The vast knowledge accumulated by this long experience, together with persistent laboratory research, has resulted in a manufacturing technique which ensures that every lamp leaving the Philips factories is of the highest quality, is rigorously tested, and will give long economical service. The comprehensive range of Tungsten, Fluorescent and Discharge Lamps and Lighting Fittings shown provides for all general domestic, commercial and industrial lighting requirements, and for many purposes where special lighting equipment is required.







# Some of **PHILIPS** Factories

Philips Mitcham Works is the largest Philips factory in the London area, employing several thousand people. It is here that the famous Philips Radio and Television Receivers are manufactured.



Philips Hamilton Works in Lanarkshire, Scotland, is a completely new modern factory, and is still in the process of development.

The manufacture of Philips Lamps and Lighting Equipment is now largely centred in this factory.



Well equipped Showrooms, at Century House and at many branches, are at your service. The complete range of Philips Lamps and Lighting Fittings is on show, immediately available for examination and comparison. Specialist Illumination Engineers are always available to advise on lamp and lighting problems.



# CONDITIONS OF SALE

1st SEPTEMBER, 1952

**1. PRICE VARIATIONS.** The prices quoted are based on the cost of material, labour, transport and of conforming to statutory obligations ruling at the date of quotation, and if between that date and the date on which the goods are despatched variations, either by rise or fall, occur in these costs, then the prices quoted shall be amended to provide for these variations.

**2. GENERAL.** All orders accepted are contingent upon strikes, fires or other causes beyond our control and are subject to the following terms and conditions :—

- (a) The Company reserve the right to alter prices, discounts and conditions of sale without notice.
- (b) All quotations and orders are subject to our confirmation and will be executed at the price ruling at the date of delivery.

**3. VALIDITY OF QUOTATIONS.** Unless previously withdrawn all quotations are open for acceptance within 30 days only from the date thereof, and are subject to confirmation at the time of such acceptance.

**4. DISCOUNTS.** The goods listed herein will be charged at the prices quoted on the condition that they are sold retail at Maker's list prices. No cash or other discounts whatsoever are allowed upon resale, except as follows :—

For Lamps—The Electric Lamp Manufacturers' Association Scale.

For Apparatus—The Electric Discharge Lamp Auxiliaries Council Scale.

For Lighting Fittings—The Electric Light Fittings Association Scale.

Acceptance of the goods will constitute an acceptance of these Conditions of Sale and creates a binding agreement.

**5. PAYMENT.** All accounts are payable on demand, and must be paid not later than the end of the month following date of despatch, and are subject to 2½% cash discount unless quoted otherwise, only if paid within that period. No receipt valid except on the Company's official form.

**6. DESPATCH.** The time given for despatch is to date from receipt by the Company of a written order to proceed, and of all the necessary information and drawings to enable the Company to put the work in hand.

The Company will use its best endeavours to despatch on the date given, but will accept no liability for failure to do so, unless a guarantee shall have been given in writing under an agreed sum, as liquidated damages, for late despatch, and the customer shall have suffered loss by the delay. Should despatch be hindered or delayed by the Customer's instructions or lack of instructions or by any cause whatsoever beyond the Company's reasonable control, a reasonable extension of time shall be granted.

## 7. PACKING AND DELIVERY.

Packing cases and/or packing material when charged for will be credited in full if returned in good condition, duly advised and carriage paid, within one month from date of despatch.

### (A) LAMPS.

#### (i) Within "ELMA" Free Delivery Areas.

Packing and delivery of any number of lamps free. Sound delivery guaranteed under conditions given below.

#### (ii) Outside "ELMA" Areas.

Orders of £1 list value or over to one address, packing and delivery free. Sound delivery guaranteed under conditions given below.

Orders of less than £1 list value to one address, packing free but carriage chargeable at not less than cost. Sound delivery not guaranteed, lamps being forwarded at customer's risk.

### (B) APPARATUS AND LIGHTING FITTINGS.

For complete delivery of one order to a specified destination sound delivery guaranteed under conditions given below.

#### (i) Orders below £10 nett value.

Packing—Cartons free. Wooden cases charged and returnable (carriage paid) for credit. Carriage—Paid and charged to customer.

#### (ii) Orders of £10 nett value and above

Packing—Cartons free. Wooden cases charged and returnable (carriage paid) for credit. Carriage—Paid by us.

**8. TRANSIT DAMAGE.** When sound delivery is guaranteed we will credit or replace lamps, apparatus or lighting fittings broken in transit between our store

and the customer's premises, provided the Carriers and the Company are duly advised within three days of receipt, and the goods returned complete in the original package carriage paid, within seven days of date of despatch, our despatch note number to be quoted. Otherwise no claim will be entertained. We will not accept responsibility for safe custody of such returned goods. No transportation or breakage allowance will be given by us except on deliveries made by us.

## 9. SHORT DELIVERY.

Shortage claims will be considered only if the Carriers and the Company receive written notification of suspected pilferage or shortage within three days of delivery, but not otherwise. The packing and the contents should be retained for examination by the Carrier's Inspectors.

**10. NON-DELIVERY.** Failure to advise us of non-delivery of goods within 10 days from date of despatch will be held to free us from any responsibility.

**11. RETURNS.** Returned goods will not be accepted unless accompanied or preceded by an advice note, giving the reason for return and the date and number of our invoice. All goods returned must be consigned carriage paid and reasonably packed.

## 12. DESCRIPTIVE MATTER AND ILLUSTRATIONS.

All descriptive and forwarding specifications, drawings and particulars of weights and dimensions issued by the Company are approximate only, and are intended only to present a general idea of the goods to which they refer and none of these shall form part of a contract.

**13. PATENTS.** In the event of any claim being made or action brought against you in respect of infringements of patents by the manufacturer or sale by us of goods supplied to you hereunder, you are to notify us immediately and we shall be at liberty with your assistance if required, but at our expense, to conduct all negotiations for the settlement of the same or any litigation that may arise therefrom: subject to such notification and provided that no goods, or any part thereof, shall be used for any purpose other than that for which we supply them, we will indemnify you in respect of any such claims.

## HOW TO ORDER

When ordering Philips Fluorescent, Tungsten, Mercury or Sodium lamps, apparatus or lighting equipment, please give the A.C. Mains voltage and frequency and the following information :—

### LAMPS.

Class, Wattage, Type of Cap, Colour or Finish. When ordering Projector Lamps, please state make and type of apparatus for which they are to be used.

### APPARATUS.

Cat. No. of item and Class and Rating of Lamp for which required.

### LIGHTING FITTINGS.

Cat. No. of item and Class and Rating of Lamp for which required.





# PURCHASE TAX

When lamps are sold to the Trade or Trade user at a discount, Purchase Tax, if applicable, is chargeable at the rate shown below.

TYPE OF LAMP	PURCHASE TAX APPLICABLE TO:	PURCHASE TAX RATE (% of List Price)
Group 1	All lamps up to and including 250w, except: Projector lamps Class A1 and G, and Neon Lamps.	24½%
Group 2	All lamps.	22%
Group 4	All lamps.	22%
Group 5	The Miners' Lamps shown on Page 20 are M.O.F. & P. approved types and are not subject to Purchase Tax. Tax applies only to Miners' Lamps which are not M.O.F. & P. approved types.	25%
Group 6	All lamps.	25%
Group 9	Fluorescent Tubular Lamps only up to and including 80w.	24½%
Group 10	All lamps.	22%

When taxable lamps are sold at List Prices, the amount of Tax to be added by the Reseller, by agreement with the Central Price Regulation Committee, is as follows:—

## GROUP 1 and GROUP 9 LAMPS

Where List Price:— is over		Add to List Price	Where List Price:— is over		Add to List Price	Where List Price:— is over		Add to List Price
does not exceed			does not exceed			does not exceed		
s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
11	1 2	3	5 2	5 5	1 3	14 0	15 0	3 6
1 2	1 4	4	5 5	5 9	1 4	15 0	16 0	3 9
1 4	1 6	4½	5 9	6 0	1 6	16 0	17 6	4 3
1 6	1 9	5	6 0	7 0	1 7	17 6	18 6	4 6
1 9	1 10	5½	7 0	8 0	1 10	18 6	20 0	4 9
1 10	2 0	6	8 0	9 0	2 0	20 0	22 0	5 3
2 0	2 6	7	9 0	10 0	2 3	22 0	25 0	5 10
2 6	2 9	8	10 0	10 6	2 6	25 0	27 6	6 3
2 9	3 0	9	10 6	11 0	2 8	27 6	30 0	7 3
3 0	3 6	10	11 0	11 9	2 10	30 0	32 6	7 10
3 6	4 2	11	11 9	12 3	2 11	32 6	35 0	8 5
4 2	4 5	1 0	12 3	13 0	3 1	35 0	37 6	9 1
4 5	4 8	1 1	13 0	13 6	3 3			
4 8	5 2	1 2	13 6	14 0	3 4			

## GROUP 2, GROUP 4 and GROUP 10 LAMPS

s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
5	8	1½	2 5	2 11	7	4 5	4 11	1 1
8	11	2	2 11	3 2	8	4 11	5 2	1 2
11	1 2	3	3 2	3 5	9	5 2	5 6	1 3
1 2	1 7	4	3 5	3 8	10	5 6	6 6	1 5
1 7	2 1	5	3 8	4 2	11	6 6	7 0	1 7
2 1	2 5	6	4 2	4 5	1 0	7 0	7 6	1 8



# PEARL LAMPS

**GASFILLED**

**AND VACUUM**

Philips Pearl lamps are recommended for most general lighting purposes. The inside frosting of the bulb reduces glare without appreciable loss of light output.

*Group 1*



SINGLE COIL							
Watts	Nominal Lumens	Approximate Dimensions m.m.		Cap	Standard Voltages List Price Each		
	Minimum Average through Life at 230V.	Dia.	Length		25, 35, 50, 55, 60, 65, 75	100, 110, 120, 130	200, 210, 220, 230, 240, 250, 260
15	107	55	92.5	B.C. (B22/25×26)	s. d. 1 11	s. d. 1 5	s. d. 1 5
25	201	60	100		1 11	1 5	1 5
40	322	60	110		2 3	1 5	1 3
60	568	65	117.5		2 3	1 5	1 3
75	761	70	125		—	1 10	1 8
100	1126	75	137.5	E.S. (E27/25)	4 0	1 11	1 9
150	—	80	160		—	2 8	2 6
200	—	90	178		—	4 9	4 3
COILED COIL							
40	378	60	110	B.C. (B22/25×26)	—	—	1 7
60	647	65	117.5		—	—	1 7
75	859	70	125		—	—	1 10
100	1235	75	137.5		—	—	2 0

## VACUUM LAMPS

The 15 watt lamps, for voltages from 60v. to 260v., and the 25 watt lamps, in voltages from 200v. to 260v., are vacuum type.

## PURCHASE TAX

The lamps listed on this page ARE SUBJECT TO PURCHASE TAX—see Page 5.



Made in Great Britain



# ARGENTA LAMPS

## GASFILLED

### Group 1

Philips Argenta Lamps are available in a new and more efficient form.

The new opalescent internal coating has remarkably low absorption and provides soft, evenly distributed light for general lighting purposes.



COILED COIL				
Watts	Approximate Dimensions m.m.		Cap	Standard Voltages List Price Each
	Diameter	Length		200, 210, 220, 230, 240, 250, 260
40	60	110	} B.C. (B22/25 × 26)	s. d. 1 10
60	65	117.5		1 10
100	75	137.5		2 3
SINGLE COIL				
150	80	160	B.C. (B22/25 × 26)	3 0
200	90	178	E.S. (E27/25)	4 9

Made in Great Britain

PURCHASE TAX  
The lamps listed above ARE SUBJECT TO  
PURCHASE TAX—see Page 5.



# ROUGH SERVICE LAMPS

**VACUUM**

*Group 1*

Watts	Approximate Dimensions m.m.			Cap	Finish	Standard Voltages. List Price Each
	Dia.	Length	L.C.L.			
40	60	110	80	B.C. (B22/25 × 26) or E.S. (E27/25)	Clear or Pearl	s. d. 2 0
60	65	117.5	85			2 0



# TRAFFIC SIGNAL LAMPS

**VACUUM**

*Group 1*

Watts	Approximate Dimensions m.m.			Cap	Finish	Standard Voltages. List Price Each
	Dia.	Length	L.C.L.			
60	65	108 117.5	62 85	B.C. (B22/25 × 26) or E.S. (E27/25)	Clear	s. d. 2 0

# SERIES BURNING TRACTION LAMPS

**GASFILLED**

*Group 1*

Rated Amps	Nominal Watts	Approximate Dimensions m.m.			Cap	Finish	Standard Voltages, List Price Each
		Dia.	Length	L.C.L.			
0.35	40	60	110	80	B.C. (B22/25 × 26) or E.S. (E27/25)	Clear or Pearl	s. d. 1 9
0.52	60	65	117.5	85	B.C. (B22/25 × 26) or E.S. (E27/25)	Clear or Pearl	1 9
<b>GASFILLED, WITH FUSIBLE CUT-OUT</b>							
Watts		Cap		Finish		Standard Voltages. List Price Each	
						40, 50	
40 or 60		E.S. (E.27/25)		Clear or Pearl		s. d. 2 5	



PURCHASE TAX—All the lamps listed on this page ARE SUBJECT TO PURCHASE TAX—see Page 5.  
Made in Great Britain



# CLEAR LAMPS

## GASFILLED AND VACUUM

### Group I



SINGLE COIL							
Watts	Nominal Lumens	Approximate Dimensions m.m.		Cap	Standard Voltages List Price Each.		
	Minimum Average through Life at 230V.	Dia.	Length		25, 35, 50, 55, 60, 65, 75	100, 110, 120, 130	200, 210, 220, 230, 240, 250, 260
15	107	55	92.5	B.C. (B22/25 x 26)	s. d. 1 11	s. d. 1 5	s. d. 1 5
25	201	60	100		1 11	1 5	1 5
40	322	60	110		2 3	1 5	1 3
60	563	65	117.5		2 3	1 5	1 3
75	761	70	125		—	1 10	1 8
100	1126	75	137.5	E.S. (E27/25)	4 0	1 11	1 9
150	1916	80	160		6 0	2 8	2 6
200	2652	90	178		9 0	4 3	3 9
300	4176	110	233	G.E.S. (E40/45)	12 0	8 0	7 6
500	7485	130	267		16 0	10 6	10 0
750	12022	150	300		—	16 0	16 0
1000	16800	150	300		—	17 6	17 6
1500	26775	170	335		—	25 0	25 0
COILED COIL							
40	378	60	110	B.C. (B22/25 x 26)	—	—	1 7
60	647	65	117.5		—	—	1 7
75	859	70	125		—	—	1 10
100	1235	75	137.5		—	—	2 0

Made in Great Britain

#### VACUUM LAMPS

The 15 watt lamps, for voltages from 60v. to 260v., and the 25 watt lamps, in voltages from 200v. to 260v., are vacuum type.

#### PURCHASE TAX

All the lamps listed on this page up to and including 200W. ARE SUBJECT TO PURCHASE TAX—see Page 5.



# DECORATION SETS

For Christmas tree decoration and other festive occasions throughout the year. Each Philips Decoration Set consists of twelve lamps, sprayed in various attractive colours, ready wired in series for operation on 200/260 volt supplies. A spare lamp is included in each set.



DECORATION SETS				
Type Number	Volts	List Price Each	Purchase Tax extra	Total
Standard Set No. 1	200/260	s. d. 18 2	s. d. 4 7	s. d. 22 9

Note: As the lamps are series wired, should one lamp fail the set will not light. To trace the faulty lamp, test each one separately on an ordinary 4.5 volt battery.

DECORATION LAMPS (GROUP 6)							
Volts	Watts	Cap	Dia. m.m.	Shape	Finish	List Price	P. Tax extra
20	3	M.E.S. (E10/13)	18	Conical	Clear or Colour Sprayed	s. d. 1 0	s. d. 3

Made in Great Britain





# COLOUR SPRAYED LAMPS

## GASFILLED AND VACUUM

### Group I



Philips Colour Sprayed Lamps are ideal for commercial display and decorative domestic lighting.

#### PURCHASE TAX

The lamps listed on this page, up to and including 200 W., ARE SUBJECT TO PURCHASE TAX—see Page 5.

#### VACUUM LAMPS

The 15 watt lamps, in all voltages, and the 25 watt lamps, in voltages from 200v. to 260v., are vacuum type.

#### OUTSIDE SPRAYED—SINGLE COIL

Watts	Approximate Dimensions, m.m.		Cap	Standard Voltages, List Price Each		Standard Colours
	Dia.	Length		100, 110, 120, 130	200, 210, 220, 230, 240, 250, 260	
15	55	92.5	B.C. (B22/25 x 26)	s. d.	s. d.	Wholly only: Red, Blue, Green, Flame, Orange, Yellow, Pink and Amber. Wholly or partially: White.
25	60	100		1 7	1 7	
40	60	110		1 7	1 7	
60	65	117.5		1 8	1 6	
75	70	125		2 1	1 11	
100	75	137.5		2 3	2 1	
150	80	160	E.S. (E27/25)	3 5	3 3	Wholly or partially: White.
200	90	178		5 9	5 3	
300	110	233	G.E.S. (E40/45)	9 9	9 3	
500	130	267		12 9	12 3	



# SIGN LAMPS

## VACUUM

### Group I

STANDARD COLOURS FOR OUTSIDE SPRAYED LAMPS: Red, Blue, Green, Flame, Orange, Yellow, Pink, Amber and White.

Watts	Approximate Dimensions, m.m.		Cap	Finish	Standard Voltages List Price Each		
	Dia.	Length			25, 50, 60, 65, 75	100, 130	110, 200, 210, 220, 230, 240, 250, 260
15	28	56	B.C. (B22/21) E.S. (E27/25)	Clear	s. d.	s. d.	s. d.
		58			2 5	1 10	1 10
		62	S.B.C. (B15/24 x 18)	Outside colour sprayed (Wholly only)	2 7	2 0	2 0
		64	S.E.S. (E14/27 x 18)				
15	44	90	B.C. (B22/25 x 26) or E.S. (E27/25)	Internally Coloured: Red, Green, Yellow, Blue, White or Orange	—	—	2 1
SWITCHBOARD INDICATOR LAMPS					100/130 or 200/260		
Not specified	28	56	B.C. (B22/21)	Clear	s. d.		
				Sprayed	2 6		
					2 8		

Made in Great Britain



# SPOTLIGHT REFLECTOR LAMPS

## GASFILLED

### Group 1

Specially designed for store display and shop window lighting. The internal silvering of Philips Spotlight Reflector Lamps provides a built-in parabolic reflector which remains untarnished throughout the life of the lamp. The crown of the lamp is internally frosted to ensure even distribution of light and to prevent projection of the filament image.

Use the grid filament lamp where a narrow beam is required ; the ring filament lamp for a wide beam.

Watts	Approximate Dimensions m.m.		Cap	Filament	Standard Voltages. List Price Each	
	Dia.	Length			110, 210, 230, 240, 250	
150	126	176	E.S. (E27/54 x 38)	Grid	s. d. 18 6	
				Ring	15 6	

PURCHASE TAX : This lamp is SUBJECT TO PURCHASE TAX—see Page 5.



# CANDLE LAMPS

## VACUUM & GASFILLED

Watts	Approximate Dimensions m.m.		Cap	Finish	Standard Voltages and List Price Each			
	Dia.	Length			PLAIN		TWISTED	
					50 60, 65, 75	100, 110, 120, 130, 200, 210, 220, 230, 240, 250, 260	100, 110, 120, 130, 200, 210, 220, 230, 240, 250, 260	
25	38	114	B.C. (B22/25×26) or S.B.C. (B15/26×22) or S.E.S. (E14/27×18)	Clear	s. d. 4 9	s. d. 3 9	s. d. 4 3	
				†Outside colour sprayed	4 11	3 11	4 5	
40	45	128		Clear	—	4 3	5 0	
				†Outside colour sprayed	—	4 6	5 3	
60	45	128		Clear	—	4 9	5 6	

† Note: These lamps are supplied wholly sprayed only. STANDARD COLOURS : Red, Blue, Green, Flame, Orange, Yellow, Pink, Amber and White.

PURCHASE TAX : All the lamps listed on this page ARE SUBJECT TO PURCHASE TAX—see Page 5.

Made in Great Britain

### Group 1





# TUBULAR LAMPS VACUUM

## Group I

### TUBULAR—SINGLE CAP

Watts	Approximate Dimensions m.m.		Cap	Finish	Standard Voltages List Price Each	
	Dia.	Length			50 60, 65, 75	110, 120, 200, 210, 220, 230, 240, 250, 260
25	25	86 92 94	B.C. (B22/21) S.B.C. (B15/24×18) S.E.S. (E14/27×18)	Clear	s. d. 4 9	s. d. 3 9
40 60	38 38	302 302	B.C. (B22/25×26) or E.S. (E27/25)	Opal or Opalised	— —	8 6 8 6

### STRIPLITE—DOUBLE CAP

Watts	Approximate Dimensions			Caps	Finish	Standard Voltages. List Price Each	
	Dia. m.m.	Length				110, 120, 200, 210, 220, 230, 240, 250, 260	
		m.m.	ins.				
30	25	221	8 $\frac{3}{4}$	Centre Contact (S15s)	Clear	s.	d.
30	25	284	11 $\frac{3}{16}$			5	9
60	25	284	11 $\frac{9}{16}$			6	0

### ARCHITECTURAL—STRAIGHT

Watts	Approximate Dimensions			Caps	Finish	Standard Voltages. List Price Each			
	Dia. m.m.	Length				100, 110, 120, 130	200, 210, 220, 230, 240, 250, 260		
		m.m.	ins.						
35	30	305	12	Side Caps (Peg)	White Opal	s.	d.	s.	d.
75	30	610	24			13	6	13	6
110	30	915	36			22	6	22	6
150	30	1220	48			—		30	0
						—		35	0

### ARCHITECTURAL—CURVED ( $\frac{1}{8}$ , $\frac{1}{4}$ or $\frac{1}{2}$ circle)

60	30	500	20	Side Caps (Peg)	White Opal	30 0	30 0
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Made in Great Britain

#### COLOUR SPRAYING

Extra for spraying Architectural lamps in standard colours ... 10%. Standard Colours: Red, Blue, Green, Flame, Orange, Yellow, Pink and Amber.

#### PURCHASE TAX

All the lamps listed on this page ARE SUBJECT TO PURCHASE TAX—see Page 5.



# NEON VOLTAGE INDICATORS

Philips Neon Voltage Indicators are necessary for all who need to make sure whether the mains or circuits are live or not.

**Philips Pencil Type Voltage Indicator** (Cat. No. Q.5000) is for use on A.C. or D.C. mains between 110V. and 500V. This indicator is a black "Philite" holder fitted with a metal probe, and provided with a pocket clip and metal cap. The probe is connected, via a resistance, to one electrode of a small neon indicator, the other electrode of which is connected to the metal cap and clip.

Both the resistance and the neon indicator are well insulated.

To test whether the mains are live, the probe is brought into contact with wires or socket entries, the metal clip being held firmly in the hand. At voltages over 110V., the neon indicator will give a red glow, if the tested point is live.

**Philips Neon Voltage and Polarity Indicator.** (Cat. No. Q5005) is suitable for A.C. mains 80V. to 750V., and D.C. mains 100V. to 750V. It has two moulded "Philite" insulated casings connected by a 39" length of tough rubber covered cable, each with a metallic probe at one end; collars prevent accidental hand contact with the probes.

The larger casing houses a Philips Neon Indicator Lamp, Type 4017, which has a resistance in the cap, and a positive sign stamped in the circular electrode. Apart from testing for potential, the indicator can be used for indicating polarity on D.C. mains. On D.C., if the casing holding the neon indicator lamp is brought into contact with the positive lead, the plus sign on the electrode glows red. When the casing holding the neon lamp is connected with a negative lead, the positive sign remains black, and the second electrode glows red.



Cat. No. Q.5005  
Neon Voltage and Polarity  
Indicator



Cat. No. Q.5000  
Pencil Type Voltage  
Indicator

Cat. No.	Description	List Price Each
Q.5000	Pencil Type Voltage Indicator	£ s. d.
Q.5005	Neon Voltage and Polarity Indicator	5 0
		1 10 0

Made in Holland

CURRENT POLARITY INDICATOR LAMP, TYPE 4017				
Watts	Approximate Dimensions m.m.		Cap	List Price Each 110/750v.
	Dia.	Length		
0.5	20	79	Two Special Caps	s. d. 8 9

PURCHASE TAX does not apply to the items listed on this page.





# NEON LAMPS

## Group I

NIGHT LIGHT				
Watts	Approximate Dimensions m.m.		Cap	Standard Voltages. List Price Each
	Dia.	Length		200/260
5	61 (max.)	125 (max.)	B.C. (B22/31 × 30) or E.S. (E27/25)	s. d. 4 6

INDICATOR					
Watts	Approximate Dimensions m.m.		Cap	Standard Voltages. List Price Each	
	Dia.	Length		100/260	100/130, 200/260
0.2	12	28	S.E.S. (E14/16.5)	s. d. 4 9	s. d. —
0.5	28	56	B.C. (B22/21)	—	4 0
	28	58	E.S. (E27/25)		
	18	54	S.B.C. (B15/24 × 18)		
	18	56	S.E.S. (E14/27 × 18)		

Note: Except when ordered otherwise, these lamps are supplied with built-in resistances.

CRUCIA				
Current (mA)	Approximate Dimensions m.m.		Cap	Standard Voltages. List Price Each
	Dia.	Length		200/260
On D.C. 4-6	28	98	B.C. (B22) or	s. d. 8 6
On A.C. 6-8	28	100	E.S. (E27)	

### ORDERING

When ordering Neon Lamps, please state whether required for A.C. or D.C. mains.

### PURCHASE TAX

does not apply to any of the lamps listed on this page.

Made in Great Britain



# MOTOR CAR LAMPS

## GASFILLED Group 2

### HEADLAMPS—SINGLE FILAMENT

Volts	Watts	Approximate Dimensions m.m.		Cap	Filament	List Price Each
		Dia.	Length			
6	24	38	56	S.C.C. (B15s/17)	Axial	s. d. 2 6
6	36	38	56		Axial or "V"	2 9
12	24	38	56	S.C.C. (B15s/17)	Axial or "V"	2 6
12	36	38	56		Axial or "V"	2 6
12	48	38	56		Axial	4 0
12	60	50	63		Axial	5 6
24	36	38	56	S.C.C. (B15s/17)	Axial	3 0
24	48	38	56	S.B.C. (B15d/17)	Axial	4 6
24	60	50	63	B.C. (B22/21)	Axial	6 0

SPECIAL CAPS—S.B.C. (B15d/17), A.S.C.C. (B15s/21) or A.S.B.C. (B15d/21) caps can be supplied at an extra charge (unless shown as standard) of 1d. each; Bosch Caps (BA20s or BA20d) 3d. each.

### HEADLAMPS—DOUBLE FILAMENT

Volts	Watts	Approximate Dimensions m.m.		Cap	Filament	List Price Each
		Dia.	Length			
6	18 & 18	38	56	S.B.C. (B15d/17) or A.S.B.C. (B15d/21)	"V"	s. d. 4 6
6	24 & 24	38	56		"V"	3 6
6	30 & 30	38	56		"V"	3 6
6	36 & 36	38	56		"V"	3 6
12	36 & 36	38	56		"V"	3 6
24	36 & 36	38	56		"V"	5 9

SPECIAL CAPS—See note above.

### PREFOCUS HEADLAMPS—SINGLE FILAMENT

Volts	Watts	Approximate Dimensions m.m.		Contact Single (P22s/21) Double (P22d/21)	Filament	List Price Each
		Dia.	Length			
6	36	28	62	Single	S.C. Axial	s. d. 3 9
6	36	28	62		S.C. Transverse	4 0
12	36	28	62	Single or Double Single or Double Single	S.C. or C.C. Axial	3 9
12 (a)	38	28	62		S.C. Transverse	3 9
12	48	28	62		C.C. Axial or S.C. Transverse	4 9
24	44	28	62	Double	C.C. Axial or C.C. Transverse	5 6

### PREFOCUS HEADLAMPS—DOUBLE FILAMENT

Volts	Watts	Approximate Dimensions m.m.		Contacts	Filaments	List Price Each
		Dia.	Length			
6	18 & 18	28	62	Double (P22d/21)	S.C. Transverse	s. d. 5 3
6	24 & 24	28	62		S.C. Transverse	4 9
6	30 & 30	28	62		S.C. Transverse	5 6
6	36 & 36	28	62		S.C. Transverse	4 6
12	42 & 36	28	62		S.C. Transverse	5 0
12 (a)	44 & 38	28	62		S.C. Transverse	6 3
12	48 & 48	28	62		S.C. or C.C. Trans.	6 9
24	38 & 38	28	62		C.C. Transverse	6 9
24 (a)	44 & 38	28	62		C.C. Transverse	7 6

Note: (a) For commercial vehicles only.

PURCHASE TAX—All the lamps listed on this page ARE SUBJECT TO PURCHASE TAX—see Page 5.





# MOTOR CAR LAMPS

## GASFILLED AND VACUUM

## Group 2

SIDE, DASHBOARD AND TAIL LAMPS (GASFILLED)						
Volts	Watts	Approximate Dimensions m.m.		Cap	Filament	List Price Each
		Dia.	Length			
6	3	18	32.5	S.C.C. (B15s/17)	Bow	s. d. 1 4
6	3	15	27.5	M.C.C. (B9s/14)	Bow	1 6
6	6	18	32.5	S.C.C. (B15s/17)	Bow	1 7
12	6	18	32.5	S.C.C. (B15s/17)	Bow	1 4
12	6	15	27.5	M.C.C. (B9s/14)	Bow	1 7
24	6	{ 18 18 22	{ 32.5 32.5 37	{ S.C.C. (B15s/17) S.B.C. (B15d/17) B.C. (B22/21)	Bow or "V"	1 8

SPECIAL CAPS—S.B.C. (B15d/17) caps can be supplied at an extra charge (unless shown as standard) of 1d. each.

STOP AND TAIL LAMPS (GASFILLED)						
Volts	Watts	Approximate Dimensions m.m.		Cap	Filament	List Price Each
		Dia.	Length			
6	18 & 3	25	46	S.B.C. (B15d/17)	"V" & Coil	s. d. 3 6
6	18 & 3	25	46	S.B.C. Offset-Pins (B15d/19)	Trans. & Coil	3 9
12	18	25	46	S.C.C. (B15s/17)	Trans.	3 6
12	18 & 6	25	46	S.B.C. (B15d/17)	"V" & Coil	3 6
12	18 & 6	25	46	S.B.C. Offset-Pins (B15d/19)	Trans. & Coil	3 9

INDICATOR LAMPS (VACUUM)					
Volts	Watts	Approximate Dimensions m.m.		Cap	List Price Each
		Dia.	Length		
6	3.0	11	23	M.E.S. (E10/13)	s. d. 1 3
6	3.0	15	27.5		1 3
8	1.6	15	27.5		2 3
12	2.2	11	23		1 3
12	2.2	15	27.5		1 3
16	3.0	15	27.5		2 3
24	2.8	15	27.5		2 0

SPECIAL CAPS—M.C.C. (B9s/14) caps can be supplied at an extra charge of 3d. each.

TUBULAR FESTOON LAMPS (VACUUM)					
Volts	Watts	Approximate Dimensions m.m.		Cap	List Price Each
		Dia.	Length		
6	3	7.5	35.5	Festoon S.7/8	s. d. 2 3
12	3	7.5	35.5		2 3
6	6	11	38	Festoon S.8.5/8	2 7
12	6	11	38		2 7
24	6	11	38		2 6
24	6	11	44		3 0

PURCHASE TAX—All the lamps listed on this page ARE SUBJECT TO PURCHASE TAX—see Page 5.

Made in Great Britain



# TROLLEY BUS LAMPS

## Group 1

Type	Watts	Approximate Dia. m.m.	Cap	Finish	Standard Voltage. List Price Each	
					35V.	
Instrument	6	22	S.B.C. (B15d/17)	Clear	s. d.	2 6
Side	6	38	B.C. (B22/21)	} Clear or Pearl		2 6
Interior	15	38 or 50	B.C. (B22/21)			2 9
Interior	20	38	B.C. (B22 21)			3 0
Headlamp	36	38	S.B.C. (B15d/17)	Clear		4 0



# BUS INTERIOR LAMPS

## Group 2

PEARL						
Volts	Watts	Cap	Approximate Dimensions m.m.		Filament	List Price Each
			Dia.	Length		
12	12	B.C. (B22/21 x 26)	38	55	" V "	s. d. 2 4
24	12	or	or	or	or	2 9
24	20	S.B.C. (B15d/17)	50	68	Bow	2 9



PURCHASE TAX—All the lamps listed on this page ARE SUBJECT TO PURCHASE TAX—see Page 5.

Made in Great Britain





# CYCLE DYNAMO LAMPS

## Group 4

HEADLAMPS—CLEAR FINISH, ROUND BULB				
Volts	Amps	Cap	Dia. m.m.	List Price Each
6 (a)	0.2	M.E.S.	15	s. d. 0 9
6 (a)	0.3	M.E.S.	15	0 9
6	0.3	S.C.C.	18	1 4
6 (a)	0.45	M.E.S.	15	0 9
6 (a)	0.5	M.E.S.	15	0 9
6	0.5	S.C.C.	18	1 4
TAIL LAMPS—CLEAR FINISH, ROUND BULB				
3.5	0.15	M.C.C.	11 or 15	0 9
6	0.04	M.E.S.	11 or 15	0 9
6	0.1	M.E.S.	11 or 15	0 9



CAPS—S.C.C. (B15s/17), M.E.S. (E10/13).

Note: (a) These headlamps are also available with "stippled" bulbs at the same prices.

# RADIO PANEL LAMPS

## Group 10

ROUND BULBS—CLEAR					
Volts	Amps	Cap	Approximate Dimensions m.m.		List Price Each
			Dia.	Length (max.)	
6	0.04	M.E.S.	11	24	s. d. 1 0
6	0.06	M.E.S.	11	24	1 0
6.2	0.3	M.E.S.	15	29	0 7½
6.3	0.11	M.E.S.	11	24	0 7½
6.5	0.3	M.E.S.	11	24	0 7½
TUBULAR BULBS—CLEAR					
6.2	0.3	M.E.S.	10	30	0 7½
6.3	0.15	M.E.S.	10	30	0 7½
6.5	0.3	M.E.S.	10	30	0 7½



SPECIAL CAPS—M.C.C. (B9s/14) caps can be supplied at an extra charge (unless shown as standard) of 1d. each.

# FLASH BULBS

CLEAR FINISH				
Volts	Amps	Cap	Dia. m.m. Round Bulb	List Price Each s. d.
1.5	0.11	M.E.S.	15	0 8
2	0.6	M.E.S.	15	0 8
2.5	0.2	M.E.S.	11	0 5½
2.5	0.3	M.E.S.	11	0 5½
3.5	0.15	M.E.S.	11	0 5½
3.5	0.3	M.E.S.	11	0 5½
4	0.3	M.E.S.	11	0 5½
4.5	0.3	M.E.S.	15	0 5½
5	0.15	M.E.S.	15	0 8
2.2	0.25	M.E.S.	Lens End 9.5 (max.)	0 10



PURCHASE TAX—All the lamps listed on this page ARE SUBJECT TO PURCHASE TAX—see Page 5.

Made in Great Britain

# MINERS' LAMPS



This mark on Philips Miners' Lamps indicates that they have been tested and approved by the Ministry of Fuel and Power.



## Group 5

KRYPTON								
Volts	Amps	Cap	Approximate Dimensions		Finish	For use in:—	M.O.F. & P. Category	List Price Each
			Dia. m.m.	Length m.m.				
2.5 (a)	1.5	953	18	43.5	Pearl	Hand	I B	s. d. 3 0
2.5 (a)	1.5	E14/23	18	45.5	Pearl	Hand	I B	3 0
2.5 (a)	1.75	953	18	43.5	Pearl	Hand	I A	3 0
2.5 (a)	1.75	E14/23	18	45.5	Pearl	Hand	I A	3 0
3.6	1.0	E10	18	31	Clear	Cap	I A	3 0
3.75	1.0+1.0	B15d/17	18	40	Clear	Cap	I A	3 6
4.0 (a)	0.75	E14/23	18	45.5	Pearl	Hand	I B	3 0
4.0 (a)	0.75	Peg	18	47	Pearl	Hand	I B	3 0
4.0	0.8	E10	18	31	Clear	Cap	I A	3 3
4.0 (a)	1.0	E14/23	18	45.5	Pearl	Hand	I A	3 0
ARGON								
4.0	0.55+0.55	B15d/21	25	49	Clear	Cap	I B	2 9

Note: (a) Supplied with fuse in the cap.

### PURCHASE TAX

All the lamps on this page are M.O.F. & P. approved types, and therefore are not subject to Purchase Tax

Made in Great Britain





# IN F R A - R E D L A M P S

## Group 1

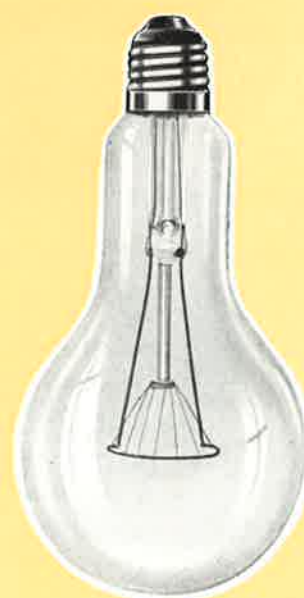
Philips Infra-Red Lamps are used extensively for pig and poultry rearing, for which they offer many advantages.

They have many other applications for industrial heating and drying processes, such as for paint and lacquer finishing, for drying textiles, seeds and vegetables.

Full information about the uses of these lamps is available on request.



Internal Reflector Bulb



Clear Bulb

## INTERNAL REFLECTOR BULB

Watts	Volts	Approximate Dimensions m.m.			Cap	List Price Each
		Diameter	Overall Length	L.C.L.		
250	110/120 200/210 220/230 240/250	$126 \pm 1.5$	$185 \pm 5$	$110 \pm 5$	E.S.	s. d. 15 6

Special agricultural pig farrowing and poultry rearing units are available. Please ask for details.

When ordering please state whether required for poultry or pig rearing, or for industrial purposes.

## C L E A R B U L B

Watts	Volts	Approximate Dimensions m.m.			Cap	List Price Each
		Diameter	Overall Length	L.C.L.		
250	100/130	$90 \pm 1$	$178 \pm 5$	$133 \pm 5$	E.S.	s. d. Clear: 7 9 Pearl: 8 3

### PURCHASE TAX

All the lamps listed on this page ARE SUBJECT TO PURCHASE TAX—see Page 5.

Made in Great Britain



# PROJECTOR LAMPS

## Group I

Class A.I. Lamps are for use in Cinematograph Projectors, Home Cinemas, Film Strip and Slide Projectors, etc.

CLASS A.I.										
Watts	Volts	Cap	Dimensions m.m.			Obj. Avg Life (Hours)	Special Features	E.L.M.A. Ref.	Philips Type Nos.	List Price Each
			Dia.	Overall Length	L.C.L.					
10	20	E14	15 ± 1	59 ± 3	38 app.	100	—	A1/130	390M	s. d.
10	20	Pathe	15 ± 1	57 ± 3	25 ± 0.5	100	—	A1/72	390C	4 6
15	40	B15s	16 ± 1	57 ± 3	29 ± 2	50	—	A1/73	6179N	4 0
25	50	B15s	16 ± 1	57 ± 3	29 ± 2	50	—	A1/1	7077N	4 9
50	100, 110, 115	B15s	25 ± 1	76 ± 3	34.5 ± 2	50	(a)	A1/2	6156N	7 3
50	100, 110, 115	B15d	25 ± 1	76 ± 3	34.5 ± 2	50	(a)	A1/19	6156W	7 3
50	100, 110, 115, 30	E14	25 ± 1	78 ± 3	43 ± 3	50	(a)	A1/20	6156M	7 3
100	12, 100, 110, 115, 200, 210, 220, 230, 240, 250	P28	25 ± 1	133 ± 7	55.5 ± 0.5	50	Offset Filament (a)	A1/3	7223C	12 9
100	12, 100, 110, 115, 200, 210, 220, 230, 240, 250	P28	25 ± 1	133 ± 7	55.5 ± 0.5	50	(a)	A1/4	6067C	12 9
100	12, 100, 110, 115, 200, 210, 220, 230, 240, 250	E27	25 ± 1	128 ± 7	75 ± 5	50	(a)	A1/23	6067E	11 9
100	100, 110, 115	Pathe	25 ± 1	87 ± 3	30 ± 0.5	25	—	A1/156	7238X	11 6
100	100, 110, 115	B15s	25 ± 1	76 ± 5	34.5 ± 2	50	(a)	A1/21	6158N	12 9
100	100, 110, 115	B15s	25 ± 1	76 ± 5	34.5 ± 2	50	(a)	A1/21	7238N	13 9
100	100, 110, 115	B15d	25 ± 1	76 ± 5	34.5 ± 2	50	(a)	A1/121	6158W	12 9
100	100, 110, 115	E14	25 ± 1	80 ± 5	45 ± 5	50	(a)	A1/22	6158M	12 9
100	100, 110, 115	Pathe	25 ± 1	93.5 ± 3	35 ± 0.5	50	Offset Filament	A1/79	6130C	11 9
200	100	B15d	25 ± 1	87 ± 3	34.5 ± 2	25	(a)	A1/25	6166W	18 6
200	100	B15s	25 ± 1	87 ± 3	34.5 ± 2	25	(a)	A1/26	6166N	18 6
200	100, 110	P15s	25 ± 1	87 ± 5	31.5 ± 0.5	25	(a)	A1/27	6166X	19 6
200	100, 110	P15d	25 ± 1	87 ± 5	31.5 ± 0.5	25	(a)	A1/127	6166C	19 6
200	100	E14	25 ± 1	90 ± 5	43 ± 3	25	—	A1/28	6166M	18 6
200	50	E27	32 ± 2	128 ± 7	75 ± 5	50	Central Filament (a)	A1/12	7216E	23 0
200	50	E27	32 ± 2	128 ± 7	75 ± 5	50	Central Filament (a)	A1/12	6160E	18 6
200	50	E27	32 ± 2	128 ± 7	75 ± 5	50	Offset Filament	A1/112	722xE	23 0
200	50	P28	32 ± 2	133 ± 7	55.5 ± 0.5	50	Central Filament (a)	A1/13	7216C	24 0
200	50	P28	32 ± 2	133 ± 7	55.5 ± 0.5	50	Central Filament (a)	A1/13	6160C	19 6
200	50	P28	32 ± 2	133 ± 7	55.5 ± 0.5	50	Offset Filament (a)	A1/113	7224C	24 0
200	110	Pathe	32 ± 2	133 ± 7	58 ± 0.5	50	Offset Filament	A1/81	6132C	19 6
200	15	Pathe	32 ± 2	128 ± 7	75 ± 0.5	50	{ Offset Filament } { Inverted Burning }	A1/105	7201C	26 6
200	100, 115	B15s	32 ± 1	87 ± 5	34.5 ± 0.5	50	—	A1/82	—	18 6
200	100, 115	B15d	32 ± 1	87 ± 5	34.5 ± 0.5	50	—	A1/83	—	18 6
250	50	E27	32 ± 2	128 ± 7	75 ± 5	50	Central Filament (a)	A1/14	7217E	23 0
250	100, 110, 115, 200, 210, 220, 230, 240, 250	E27	32 ± 2	128 ± 7	75 ± 5	50	(a)	A1/14	6070E	22 0
250	50	E27	32 ± 2	128 ± 7	75 ± 5	50	Offset Filament (a)	A1/16	7230E	23 0
250	50	P28	32 ± 2	133 ± 7	55.5 ± 0.5	50	Offset Filament (a)	A1/15	7230C	24 0
250	50	P28	32 ± 2	133 ± 7	55.5 ± 0.5	50	Central Filament (a)	A1/5	7217C	24 0
250	100, 110, 115, 200, 210, 220, 230, 240, 250	P28	32 ± 2	133 ± 7	55.5 ± 0.5	50	Central Filament (a)	A1/5	6070C	23 0
250	50	BH38	32 ± 2	128 ± 7	59 ± 0.5	50	(a)	A1/85	7217X	24 0

(a) Denotes tip sprayed black. Bulb Shape—Tubular. Operating Position—Vertical, cap down unless otherwise stated.  
Caps illustrated on Pages 40 & 41.

PURCHASE TAX does NOT apply to Class A.I. lamps.

Made in Holland



A1/3 7223C  
100W



A1/7 6152C  
500W



A1/2 6156N  
50W



# PROJECTOR LAMPS

## Group I

Class A.I. Lamps are for use in Cinematograph Projectors,  
Home Cinemas, Film Strip and Slide Projectors, etc.

### CLASS A.I.—Contd.

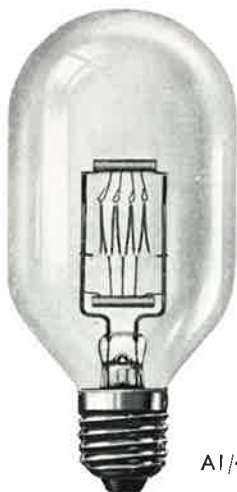
Watts	Volts	Cap	Dimensions m.m.			Obj. Av'ge Life (Hours)	Special Features	E.L.M.A. Ref.	Philips Type Nos.	List Price Each
			Dia.	Overall Length	L.C.L.					
300	100, 110, 115	E27	32 ± 2	128 ± 7	75 ± 5	25	(a) (b)	A1/35	6131E	s. d. 27 6
300	100, 115	B15s	25 ± 1	100 ± 5	34.5 ± 2	25	(a) (b)	A1/37	7212N	27 6
300	100, 115	B15d	25 ± 1	100 ± 5	34.5 ± 2	25	(a) (b)	A1/33	7212W	27 6
300	210, 230, 240, 250	P28	32 ± 2	133 ± 7	55.5 ± 0.5	50	(a)	A1/154	6131C	28 6
300	100, 110, 115	P28	32 ± 2	133 ± 7	55.5 ± 0.5	25	(a) (b)	A1/6	6131C	28 6
300	100, 110, 115	B & H 46	32 ± 2	128 ± 7	59 ± 0.5	25	Biplane (b)	A1/86	13142H	35 0
400	31	Pathe	38 ± 2	128 ± 7	75 ± 0.5	50	{ Inverted Burning } Offset Filament	A1/108	7204C	50 6
400	100, 110, 115	E27	32 ± 2	128 ± 7	75 ± 5	25	Biplane (a) (b)	A1/40	6117E	34 0
400	100, 110, 115	P28	32 ± 2	133 ± 7	55.5 ± 0.5	25	Biplane (a) (b)	A1/39	6117C	35 0
400	110	B & H 38	32 ± 2	128 ± 7	59 ± 0.5	25	Biplane (a) (b)	A1/87	6117H	35 0
400	110	B & H 46	32 ± 2	128 ± 7	59 ± 0.5	25	Biplane (a) (b)	A1/159	6117X	35 0
500	110, 115	E27	32 ± 2	128 ± 7	75 ± 5	25	Biplane (a) (b)	A1/48	6152E	36 0
500	115	Debrie	38 max.	145 ± 8	81	25	{ (b) Biplane } Inverted Burning	A1/153	6169C	38 0
500	110, 115	P28	32 ± 2	133 ± 7	55.5 ± 0.5	25	Biplane (a) (b)	A1/7	6152C	37 0
500	100, 110, 115, 200, 210, 220, 230, 240, 250	E27	64 ± 2	128 ± 7	75 ± 5	50	—	A1/42	375E	26 6
500	100, 110, 115, 200, 210, 220, 230, 240, 250	E40	64 ± 2	135 ± 10	90 ± 5	50	—	A1/43	375G	26 6
500	100, 110, 115, 200, 210, 220, 230, 240, 250	P40	64 ± 2	140 ± 10	50 ± 0.5	50	—	A1/44	375X	29 0
500	100, 110, 115, 200, 210, 220, 230, 240, 250	P28	64 ± 2	133 ± 7	55.5 ± 0.5	50	—	A1/8	375C	27 6
500	100, 110	B22 3-pin	38 max.	142 max.	95	25	{ (b) Biplane } Inverted Burning	A1/46	6169F	37 0
500	110	B & H 38	32 ± 2	128 ± 7	59 ± 0.5	25	Biplane (a) (b)	A1/47	6152H	37 0
500	110	B & H 46	32 ± 2	128 ± 7	59 ± 0.5	25	Biplane (a) (b)	A1/160	6152X	37 0
750	110, 115	P28	38 ± 2	133 ± 7	55.5 ± 0.5	25	Biplane (a) (b)	A1/9	6153C	42 6
750	110, 115	E27	38 ± 2	128 ± 7	75 ± 5	25	Biplane (a) (b)	A1/54	6153E	41 6
750	110, 115	Debrie	38 max.	145 ± 8	81	25	{ (b) Biplane } Inverted burning	A1/52	6170C	43 6
750	15	P40	64 ± 2	235 ± 10	84 ± 0.5	50	—	A1/90	382C	41 0
750	15	E40	64 ± 2	230 ± 10	120 ± 5	50	—	A1/89	382G	38 6
750	100, 110	B & H 46	38 ± 2	128 ± 7	59 ± 0.5	25	Biplane (a) (b)	A1/53	6153H	42 6
900	30	E40	64 ± 2	230 ± 10	120 ± 5	50	—	A1/111	75G	38 6
900	30	P40	64 ± 2	235 ± 10	84 ± 0.5	50	—	A1/10	75C	41 0
1000	110	P28	64 ± 2	133 ± 7	55.5 ± 0.5	25	Biplane	A1/58	6185C	49 6
1000	100, 110, 115, 200, 210, 220, 230, 240, 250	P40	64 ± 2	235 ± 10	84 ± 0.5	50	—	A1/11	293C	35 6
1000	100, 110, 115, 200, 210, 220, 230, 240, 250	E40	64 ± 2	230 ± 10	120 ± 5	50	—	A1/57	297G	33 0
1000	100	B & H 46	38 ± 2	175	78	25	Biplane (a) (b)	A1/92	6186H	49 6
1000	110, 115	P28	38 ± 2	133 ± 7	55.5 ± 0.5	25	Biplane (a) (b)	A1/59	7242C	49 6
1000	110, 115	B & H 46	38 ± 2	128 ± 7	59 ± 0.5	25	Biplane (a) (b)	A1/91	7242H	49 6
1000	110	P40	64 ± 2	235 ± 10	84 ± 0.5	25	Biplane	A1/60	7225C	52 0

BULB SHAPE—Tubular.  
OPERATING POSITION—Vertical, cap down unless  
otherwise stated.  
CAPS illustrated on Pages 40 & 41.

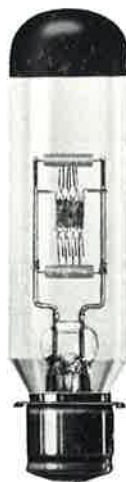
(a) Indicates tip sprayed black.  
(b) Indicates that forced cooling is necessary for  
these lamps so that no part of the wall of the bulb  
exceeds a temperature of 500° C.

Made in Holland

PURCHASE TAX does not  
apply to Class A.I. lamps.



A1/42 375E  
500W



A1/9 6153C  
750W





# PROJECTOR LAMPS

## Group I



A3/1 107E  
100W



S/3 13176P  
500W

**Class A.3.** Lamps are used in horizontal burning wide angle floodlights in Photographic and Film Studios and for Stage lighting.

CLASS A.3.									
Watts	Volts	Cap	Dimensions m.m.			Obj. Av. Life (Hours)	E.L.M.A. Ref.	Philips Type Nos.	List Price Each
			Diameter	Overall Length	L.C.L.				
100	110, 200, 210, 220, 230, 240, 250	E27	70 ± 2	115 ± 10	95 ± 5	300	A3/1	107E	s. d. 11 9
250		E27	90 ± 2	160 ± 10	120 ± 5	300	A3/2	432E	22 0

BULB SHAPE—Spherical with neck.

OPERATING POSITION—Horizontal or within 15° thereof. CAPS illustrated on Page 40.

PURCHASE TAX—The lamps listed above ARE SUBJECT TO PURCHASE TAX—see Page 5.

**Class B.1.** Lamps are used for theatre and film studio spot and floodlighting, where long life and reliability are required.

CLASS B.1.									
Watts	Volts	Cap	Diameter	Overall Length	L.C.L.	Obj. Av. Life (Hours)	E.L.M.A. Ref.	Philips Type Nos.	List Price Each
100	115, 200, 210, 220, 230, 240, 250	E27	80 ± 2	115 ± 10	75 ± 5	800	B1/1	120E	s. d. 10 0
250		E27	95 ± 2	125 ± 10	75 ± 5	800	B1/2	123E	19 3
500	115, 200, 210, 220, 230, 240, 250	E40	130 ± 5	180 ± 10	—	800	B1/3	125G	25 3
1000	115, 200, 210, 220, 230, 240, 250	E40	130 ± 5	180 ± 10	115 ± 5	800	B1/4	504G	33 0

BULB SHAPE—Spherical.

OPERATING POSITION—Any, except within 45° of vertical cap-up position. CAPS illustrated on Page 40.

PURCHASE TAX—Class B1/1 100 watt and B1/2 250 watt lamps ARE SUBJECT TO PURCHASE TAX—see Page 5. Purchase Tax does not apply to the Class B1/3 500 watt and B1/4 1,000 watt lamps listed above.

**Class E** Lamps are principally for use in Epidiascopes and for Theatre and Photographic spot lighting.

CLASS E.									
Watts	Volts	Cap	Diameter	Overall Length	L.C.L.	Obj. Av. Life (Hours)	E.L.M.A. Ref.	Philips Type Nos.	List Price Each
500	110, 200, 210, 220, 230, 240, 250	E27	100 ± 5	135 ± 10	85 ± 5	100	E/3	437E	s. d. 30 3
500		P28	95 ± 5	130 ± 10	55.5 ± 0.5	100	E/4	437C	31 3

BULB SHAPES—Spherical.

OPERATING POSITION—Vertical, cap down, ±45°. CAPS illustrated on Pages 40 & 41.

PURCHASE TAX does not apply to the Class E lamps listed above.

Made in Holland



# PROJECTOR LAMPS

## Group I



E/3 437E  
500W



G/9 6058N  
4 Amp.



F/7 6019M  
48W

Class F Lamps are for use in micro-projection and microscope illumination, and have a very wide range of application, including Home Cine Projectors.

CLASS F.										
Watts	Volts	Cap	Dimensions m.m.			Obj. Av. Life (Hours)	Special Features	E.L.M.A. Ref.	Philips Type Nos.	List Price Each
			Diameter	Overall Length	L.C.L.					
9-6	6-5	P15s	18 ± 0.5	72 ± 3	31.5 ± 0.2	100	—	F/21	—	s. d.
24	6	E14	38 ± 2	60 ± 5	50 ± 5	100	Horiz. Coil	F/10	6100M	12 9
24	12	E14	38 ± 2	60 ± 5	50 ± 5	100	" "	F/10	6163M	4 0
30	6	E14	35 ± 2	57 ± 5	47 ± 5	25	" "	F/1	6164M	4 0
30	6	E27	35 ± 2	63 ± 5	53 ± 5	25	" "	F/25	6164E	6 6
30	6	E27	35 ± 2	63 ± 5	53 ± 5	200	" "	F/23	397E	6 6
30	6	E14	35 ± 2	65 ± 5	47 ± 5	200	" "	F/26	6106M	6 6
48	8	E14	40 ± 3	60 ± 5	41 ± 3	100	" "	F/7	6019M	8 3
48	12	E27	50 ± 2	70 ± 5	38 ± 5	100	" "	F/13	6143E	6 0
72	6	E27	32 ± 1	128 ± 7	75 ± 3	100	Axial Coil	F/27	7076E	11 9
100	12	E27	60 ± 2	85 ± 5	55 ± 5	100	Horiz. Coil	F/14	6031E	13 3
108	6	P28	32 ± 2	133 ± 7	55.5 ± 0.5	50	Ribbon	F/50	6002C	34 0
108	6	E27	32 ± 2	128 ± 7	75 ± 5	50	Ribbon Filament	F/51	6002E	33 0

BULB SHAPES—Various.

OPERATING POSITION—According to type. CAPS illustrated on Page 40.

PURCHASE TAX: The lamps listed above ARE SUBJECT TO PURCHASE TAX—see Page 5.

Class G Lamps are for use with Film Sound Reproduction and recording Units.

CLASS G.										
Amps	Volts	Cap	Dimensions m.m.			Obj. Av. Life (Hours)	Special Features	E.L.M.A. Ref.	Philips Type Nos.	List Price Each
			Diameter	Overall Length	L.C.L.					
0.75	4	P15s	25 ± 1	48 ± 3	28.5 ± 0.5	50	Transverse Filament	G/1	7250X	s. d.
0.75	4	P15s	16 ± 1	57 ± 3	28.5 ± 0.5	50	" "	G/29	7253C	7 0
0.75	4	B15s	15 ± 1	48 ± 3	31.75 ± 0.75	50	" "	G/19	7253N	6 0
0.75	4	B15s	25 ± 1	48 ± 3	32 ± 1.5	50	" "	G/2	7250N	6 0
1.0	6	P15s	16 ± 1	57 ± 3	28.5 ± 0.5	100	Axial Filament	G/5	7210C	6 0
1.0	6	B15s	18 ± 1	40 ± 2	21.5 ± 0.5	100	" "	G/4	6142N	6 0
1.0	27	B15s	25 ± 1	75 ± 3	41 ± 1	100	Transverse Filament	G/16	6139N	6 0
4.0	8	B15s	25 ± 1	75 ± 3	44 ± 1	100	" "	G/8	6055N	6 0
4.0	8-5	B15s	25 ± 1	75 ± 3	44 ± 1	100	" "	G/9	6058N	6 0
5.0	10	P15s	25 ± 1	75 ± 3	37.3 ± 0.5	100	" "	G/10	6057C	9 0
5.0	10	B15s	25 ± 1	75 ± 3	41 ± 1	100	" "	G/11	6057N	8 0
5.0	10	B15s	25 ± 1	75 ± 3	44 ± 1	100	" "	G/12	6138N	8 0
7.5	10	B15s	25 ± 1	75 ± 3	44 ± 1	100	" "	G/15	—	8 0
7.5	10	B15s	25 ± 1	75 ± 3	41 ± 1	100	" "	G/14	6056N	8 0
7.5	10	P15s	25 ± 1	75 ± 3	37.3 ± 0.5	100	" "	G/13	6056C	9 0

BULB SHAPE—Tubular.

OPERATING POSITION—Vertical, cap down. CAPS illustrated on Page 40

PURCHASE TAX does not apply to the Class G lamps listed above.

Made in Holland



# PROJECTOR LAMPS

## Group I



BI/4 504G 1000W



FL/I 6013G 500W

Class FL Lamps are for use in stage lighting, shop window lighting, and floodlighting.

CLASS FL.									
Watts	Volts	Cap	Dimensions m.m.			Obj. Av'ge Life (Hours)	E.L.M.A. Ref.	Philips Type Nos.	List Price Each
			Diameter	Overall Length	L.C.L.				
500	115, 200, 210, 220, 230, 240, 250	E40	90 ± 2	355 ± 10	—	1000	FL/1	6013G	s. d. 38 6
1000	115, 200, 210, 220, 230, 240, 250	E40	—	390 ± 10	—	1000	FL/2	6014G	49

BULB SHAPE—Tubular.  
OPERATING POSITION—Any. CAPS illustrated on Page 40.  
PURCHASE TAX does not apply to the Class FL lamps listed above.

Class S Lamps are for use in Photographic and Film Studios.

CLASS S.									
Watts	Volts	Cap	Diameter	Overall Length	L.C.L.	Obj. Av'ge Life (Hours)	E.L.M.A. Ref.	Philips Type Nos.	List Price Each
500	115, 230, 240	Bi22 Med. Bi-post	95 ± 2	138 ± 3.5	63.5 ± 2	100	S/3	13176P	s. d. 66 0
1000	115, 210, 230, 240, 250	Bi38 Bi-post	152.5 ± 2	232 ± 6	127 ± 2	100	S/4	6045P	71 6
2000		Bi38 Bi-post	152.5 ± 2	232 ± 6	127 ± 2	100	S/1	13177P	93 6
2000		E40	150 ± 2	220 ± 10	134 ± 5	100	S/5	6046G	93 6
5000	115, 230, 240, 250	Bi38 Bi-post	203 ± 2	335 ± 6	165 ± 2	100	S/2	13185P	300 0

BULB SHAPES—Spherical, except 5.000 w., which has a straight-sided bulb.  
OPERATING POSITION—Vertical, cap down, ±45°. CAPS illustrated on Pages 40 & 41.  
PURCHASE TAX does not apply to the Class S lamps listed above.

These Lamps are specially designed at a colour temperature of 3350°K and are suitable for colour photography lighting, especially with the Technicolor process.

COLOUR TEMPERATURE.								
Watts	Volts	Cap	Dimensions m.m.			Philips Type No.	Bulb Shape	List Price Each
			Diameter	Overall Length	L.C.L.			
2000	115	Bi 38	152.5 ± 2	232 ± 6	127 ± 2	13187P	Spherical	s. d. 93 6
5000	115	Bi 38	203 ± 2	335 ± 6	165 ± 2	13186P	Straight Sided	300 0

OPERATING POSITION—Cap down ±45°.  
BI-POST BASES are illustrated on Page 40.  
PURCHASE TAX does not apply to these lamps.

Made in Holland





# "PHOTOFLUX" FLASHBULBS



"Photoflux" Flashbulbs are made in various types and sizes to cover practically all photographic requirements.

Type PF.S has been designed for the "X" type of contact and can be used at 1/100th of a second.

Types PF.14, PF.25, PF.38., and PF.60 are primarily intended for use with between-lens shutters; owing to their accurate time/light characteristic they are equally suitable for use by the open-flash method or with cameras having built-in flash contacts or auxiliary synchronisers.

Type PF.100 is a bulb of very high light output and is ideal for covering large areas. It may be used either by the open-flash method or may be synchronised with between-lens shutters, in which case it is recommended that shutter speeds up to 1/25th of a second be used.

Type PF.24 and PF.45 are long-duration flashbulbs, especially designed for use with focal-plane shutters on cameras up to 5" x 4" size. The PF.60 can also be used with most 35 mm. precision miniature cameras having focal plane shutters.

Bulbs having blue and yellow coatings, for use with colour films of the daylight and tungsten types respectively, are also available in types PF.25, PF.60, PF.100, PF.24 and PF.45.

Every "Photoflux" Flashbulb has a strong coating of lacquer both inside and out and, in addition, a patented blue safety spot on the top of the bulb which gives warning by changing colour should damage have allowed air to enter the bulb. Bulbs on which this spot has turned pink should not be used.

## TIME & LIGHT Specifications

### FOR BLACK AND WHITE PHOTOGRAPHY

TYPE	For between the lens shutters						For focal-plane shutters	
	PF.S	PF.14	PF.25	PF.38	PF.60	PF.100	PF.24	PF.45
Colour of Bulb	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Total light output in visual lumen seconds	5,000	10,000	18,000	30,000	62,000	95,000	15,000	45,000
Max. luminous flux in millions of visual lumens	0.8	0.7	1.2	1.6	2.6	3.5	0.5	1.0
Effective flash duration in milliseconds	—	22	24	30	35	40	—	—
Time to full peak in milliseconds	5	20	20	20	20	30	—	—
Flash duration above half peak in milliseconds	7	10	14	20	17	26	25	50
Time to half peak in milliseconds	—	16	17	13	16	20	20	20
Colour temperature in "Kelvin"	3,300	3,800	3,800	3,800	3,800	3,800	3,800	3,800
Voltage range for operation	3-30	3-12	3-12	3-30	3-30	3-250	3-12	3-12
Cap	ASCC	ASCC	ASCC	ES	ES	ES	ASCC	ES
Bulb diameter. m.m.	36	30	36	96	115	122	75	115
Overall length. m.m.	75	60	75	96	115	122	75	115
LIST PRICE	1/3	1/1	1/4	1/7	1/8	2/6	1/6	2/-

### FOR COLOUR PHOTOGRAPHY

TYPE	For between the lens shutters						For focal-plane shutters			
	PF.25/97	PF.25/98	PF.60/97	PF.60/98	PF.100/97	PF.100/98	PF.24/97	PF.24/98	PF.45/97	PF.45/98
Colour of Bulb	Blue	Yellow	Blue	Yellow	Blue	Yellow	Blue	Yellow	Blue	Yellow
Total light output in visual lumen seconds	9,000	16,000	30,000	56,000	45,000	88,000	7,000	13,000	22,000	40,000
Max. luminous flux in millions of visual lumens	0.6	1.1	1.3	2.4	1.8	3.2	0.2	0.4	0.5	0.9
Effective flash duration in milliseconds	24	24	35	35	40	40	—	—	—	—
Time to full peak in milliseconds	20	20	20	20	30	30	—	—	—	—
Flash duration above half peak in milliseconds	14	14	17	17	26	26	25	25	50	50
Time to half peak in milliseconds	17	17	16	16	20	20	20	20	20	20
Colour temperature in "Kelvin"	6,000	3,400	6,000	3,400	6,000	3,400	6,000	3,400	6,000	3,400
Voltage range for operation	3-12	3-12	3-30	3-30	3-250	3-250	3-12	3-12	3-12	3-12
Cap	ASCC	ASCC	ES	ES	ES	ES	ASCC	ASCC	ES	ES
Bulb diameter. m.m.	36	36	60	60	70	70	36	36	60	60
Overall length. m.m.	75	75	115	115	122	122	75	75	115	115
LIST PRICE	1/6	1/6	1/10	1/10	2/9	2/9	1/8	1/8	2/2	2/2

Made in Holland



PF.38



PF.S



PF.14

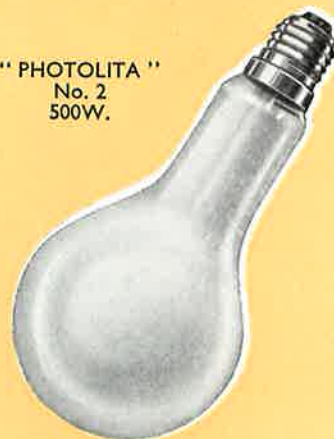


# PHOTOGRAPHIC LAMPS

## Group I

Philips Photographic lamps are well known to all photographers, both professional and amateur, who use them extensively for still and cine interior and exterior photography, for which they offer many advantages.

"PHOTOLITA"  
No. 2  
500W.

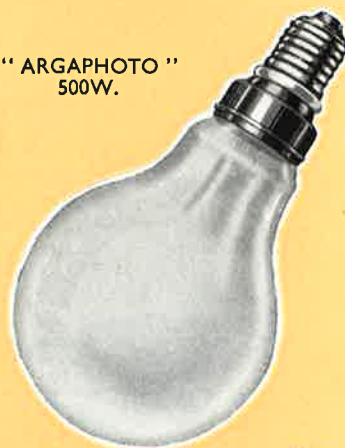


## "PHOTOLITA" (Photofloods Nos. 1 & 2) Pearl

Watts	Standard Voltages	Approx. Dimensions m.m.		Cap	Obj. Av. Life (Hours)	List Price Each	
		Diameter	Overall Length				
No. 1 275	100/110, 200/210, 220/230, 240/250	65	117.5	B.C.	2/3	s. d. 2 6	
No. 2 500	100/110, 200/210, 220/230, 240/250	80	160	E.S.	6/8	6 6	

Instructions for use are included with each lamp. PURCHASE TAX does not apply to the "Photolita" lamps listed above. *Made in Great Britain*

"ARGAPHOTO"  
500W.



## "ARGAPHOTO" (Photopearl)

Watts	Standard Voltages	Approx. Dimensions m.m.		Cap	Obj. Av. Life (Hours)	List Price Each	
		Diameter	Overall Length				
500	110, 210, 230, 250	100	175	E.S.	100	s. d. 22 0	

PURCHASE TAX does not apply to the "Argaphoto" lamp listed above. *Made in Holland*

"ARGENTA"  
100W.



## "ARGENTA" (For Enlargers)

Watts	Standard Voltages	Approx. Dimensions m.m.		Cap	List Price Each
		Diameter	Overall Length		
40 60 100 150	200, 210, 220, 230, 240, 250, 260	60 65 75 80	110 117.5 137.5 160	B.C. B.22/25 x 26	s. d. 1 10 1 10 2 3 3 0

When ordering, please state "For photographic use." *Made in Great Britain*  
The lamps listed above ARE SUBJECT TO PURCHASE TAX—see Page 5.

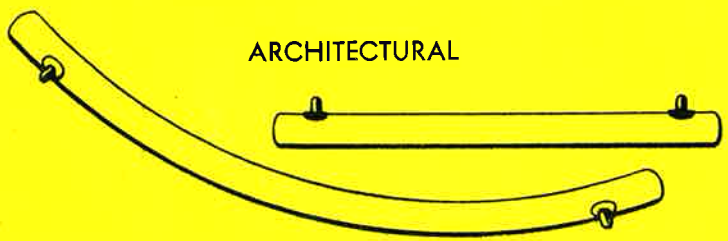
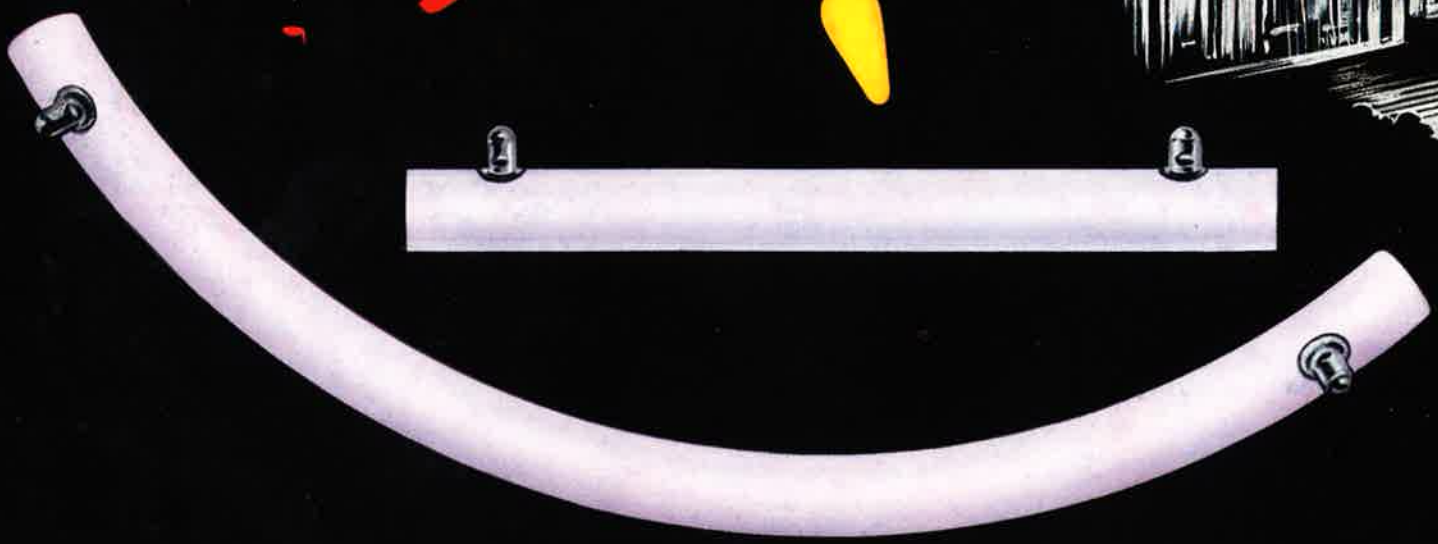








**PHILIPS  
LAMPS**  
*for*  
**ALL DECORATION  
PURPOSES**



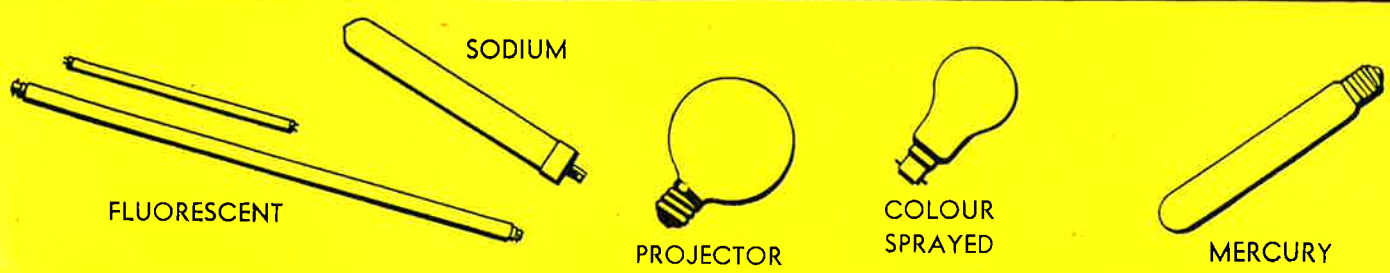
ARCHITECTURAL



SIGN



DECORATION







# FLUORESCENT LAMPS

Philips Fluorescent Lamps are excellent for most general lighting purposes, both for new installations or for replacement lamps.

Their principal features are :—

- ★ **EFFICIENCY** Up to four times that of ordinary lamps
- ★ **BRIGHTNESS** Low, obviating glare.
- ★ **DIFFUSION** Soft and well-diffused light
- ★ **COOLNESS** Heat radiation about one quarter that of ordinary lamps.
- ★ **COLOUR** Choice of five pleasing colours.
- ★ **LIFE** Long average life.

The latest Philips development is the Philips Instant-Self-Start Fluorescent Lamp, MCFB/U 40W., 4 ft., for operation in series with a Philips Tungsten Ballast Lamp, which also is an efficient source of light. No auxiliaries are required. Further information is given on pages 30 & 31.

# DISCHARGE LAMPS

The outstanding features of Philips Discharge Lamps are the special qualities of their light, their luminous efficiencies of about three to five times those of ordinary lamps, and their long useful lives. These lamps permit better and cheaper lighting, and more economic use of electricity. Evolved from many years of research and development, the Philips range includes :—

- ★ **BLENDED LAMPS**
- ★ **MERCURY LAMPS**
- ★ **MERCURY-FLUORESCENT LAMPS**
- ★ **SODIUM LAMPS**
- ★ **ULTRA-VIOLET FILTER MERCURY LAMPS**
- ★ **ULTRA-VIOLET GERMICIDAL MERCURY TUBES**

together with the apparatus necessary for these lamps, and many types of lighting fittings. The Philips Lighting Service is at your disposal to give free advice and recommendations.

#### NOTE :

Use Philips Fluorescent and Discharge Lamps only with apparatus manufactured or approved by Philips Electrica Ltd. This does not refer to (i) the Philips Instant-Self-Start Fluorescent Lamps MCFB/U 40w. 4 ft., which require no apparatus in circuit and should be connected in series with Philips Ballast Lamps, on A.C. mains of the correct voltage, (ii) Philips Blended Lamps MBT/U 160w. and 250w., Page 35, which require no apparatus in circuit, and should be connected direct to A.C. mains of the correct voltage.



# INSTANT SELF-START FLUORESCENT

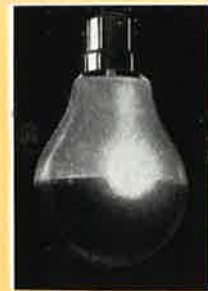
## Groups 9 & 1



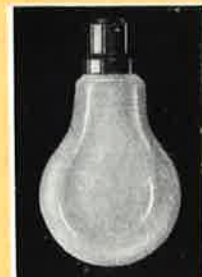
Philips Instant-Self-Start Fluorescent Lamp MCFB/U. 40W. 4 ft.

The principal features of this Philips System are:—

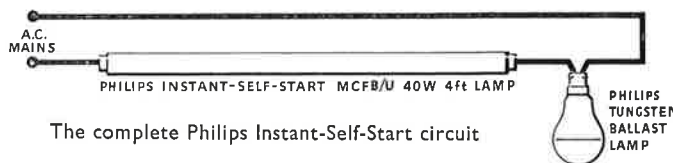
- ★ **SIMPLICITY.** One each of these Fluorescent and Ballast Lamps connected in series, form a complete circuit for use on A.C. 220-250V. mains. Chokes, capacitors and starters are eliminated, together with their materials, weight, wiring, housings, and cost.
- ★ **HIGH EFFICIENCY.** The overall luminous efficiency is about 22 lumens/watt initial ("Natural" fluorescent), or double that of ordinary tungsten lamps. The substantial total light output reduces the number of lighting fittings required for a given illumination level.
- ★ **PLEASING COLOUR.** A pleasing blend of soft fluorescent in "Natural" "Daylight" or "Mellow" colour, with crisp tungsten light from the ballast lamp. "Colour Matching" also available.
- ★ **INSTANT-SELF-STARTING.** The lamps are instant-self-starting. Normal drops in the supply voltage do not extinguish the lamps, once alight.
- ★ **HIGH POWER FACTOR.** The operating circuit has the inherent high power factor of about 0.97. Capacitors are unnecessary.
- ★ **LONG LIFE LAMPS.** The lamps have long average lives.
- ★ **CHOICE OF TWO BALLAST LAMP TYPES.** There are two Philips types, one with an internal reflector bowl, for upward light, the other having a pearl bulb. Both have the renowned Philips Coiled-Coil filaments for high efficiency, and for four different voltages.
- ★ **LIGHTING FITTINGS.** There is a complete range of Philips Instant-Self-Start Fluorescent Lighting Fittings, for various applications. These pleasing and easily installed units provide full utilisation and distribution of the light from the fluorescent and ballast lamps.



Philips Tungsten Ballast Lamp with Internal Reflector Bowl.



Philips Tungsten Ballast Lamp with Pearl Bulb



The complete Philips Instant-Self-Start circuit

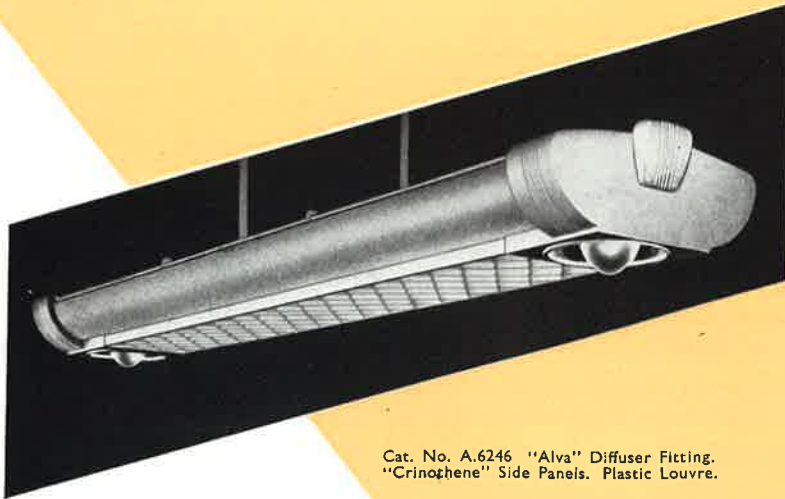


Made in Great Britain

# LIGHTING SYSTEM

Group 9  
(Fluorescent)

Group 1  
(Tungsten Ballast)



Cat. No. A.6246 "Alva" Diffuser Fitting.  
"Crinophene" Side Panels. Plastic Louvre.



Cap of Philips  
MCFB/U. 40W. 4 ft.



Cat. No. R.8309  
Three-slot  
Bayonet Lampholder

Class and Rating	A.C. 50 Cycle Mains Voltages (for Series Combination)	Ballast Lamp Operation		Approx. Initial Watts	Nominal Lumens		Nominal Initial Efficiency Lm/w	Approximate Dimensions			Finish	Caps	Price Each			
		Volts	Amp.		Initial	Average Through Life		Nom. Over-all Length	Dia.	Light Centre Length			List	P.T. Extra		
Instant-Self-Start Fluorescent MCFB/U. 40W. 4 ft.	220-250	—	—	40W.	"N" 1680	1560	42	48 ins.	1½ ins.	—	Fluorescent	Two Single Contact S35s/21	s. d.	s. d.		
					"D" 1680	1560	42						14 9	3 6		
					"M" 1520	1320	38						14 9	3 6		
					"CM" 1320 (100 hours)	1160	32 (100 hours)						16 3	4 3		
Tungsten Ballast Internal Reflector Bowl Pearl	220-230 or 240 or 250	140	0.5	70W.	796	692	11	103 m.m.	65 m.m.	75 m.m.	Internal Reflector Bowl Pearl	3-pin B.C. B22/25x26	4 3	1 0		
		150	0.5	75W.	854	743	11									
		160	0.5	80W.	910	790	11									
Tungsten Ballast Pearl	220-230 or 240 or 250	140	0.5	70W.	847	735	12	117.5 m.m.	65 m.m.	85 m.m.	Pearl	3-pin B.C. B22/25x26	2 9	8		
		150	0.5	75W.	908	790	12									
		160	0.5	80W.	968	840	12									
Series Combination (data for "N" or "D" Colour and Reflector Ballast Lamp)	220-230 or 240 or 250	—	—	110W.	2476	2252	22	—	—	—	—	—	—	—		
				115W.	2534	2303	22									
				120W.	2590	2350	21									



Cat. No. A.7202  
Lampholder, Ivory white



Cat. No. A./204  
Base for A.7202  
Lampholder

**PHILIPS INSTANT-SELF-START FLUORESCENT LAMPS MCFB/U. 40W. 4 FT.** These Lamps are for use one in series with one Philips Tungsten Ballast Lamp. They must not be used with choke or transformer ballasts. Starters are unnecessary. COLOURS. "D" = Daylight. "N" = Natural. "M" = Mellow. "C.M" = Colour Matching.

**PHILIPS TUNGSTEN BALLAST LAMPS.** These Lamps are for use one in series with one Philips Instant-Self-Start Fluorescent Lamp MCFB/U. 40W. 4 ft. They must not be used with fluorescent lamps of classes other than MCFB/U. 40W. 4 ft. Nor connected direct to the mains.

**MAINS VOLTAGES.** For A.C. 220-250V. mains. Not for D.C. Please order the Ballast Lamps for 220-230V., or 240V., or 250V., according to the A.C. mains voltage. For A.C. 200-210V. Cat. No. H.1723 transformer giving 240V. is available, for mounting on the Philips Cat. No. A.6240 or A.6246 Fittings, or for fixing separately with other fittings.

**CONSUMPTION.** The total consumption of one Philips Instant-Self-Start Fluorescent Lamp MCFB/U. 40W. 4 ft. and one Philips Ballast Lamp, is from 110W. to 120W. according to mains voltage. See Table. Double this for fittings with two Fluorescent and two Ballast Lamps.

**LAMP INSERTION.** The Philips Instant-Self-Start Fluorescent Lamp MCFB/U. 40W. 4 ft. should be inserted into the special holders, and turned 90°, leaving the stripe out of view. When using these Lamps in multiples, install so that the lamp brandings are at opposite ends.

**LIGHTING FITTINGS.** These Philips Lamps can be used in any makes of lighting fittings specially designed for them. Or for "built-in" lighting, as in display windows, cornices, luminous ceilings, etc. They may be operated in any position.

The lamps listed above ARE SUBJECT TO PURCHASE TAX AS SHOWN.

LAMPHOLDER prices are given on Page 53.





# FLUORESCENT LAMPS

## Group 9



Philips Fluorescent Lamps are suitable for most lighting purposes. They are from three to four times as efficient as ordinary lamps, are cool in operation, and have long useful lives. The light is soft, in colours as shown in the table. Use only in circuit with Ballast and Starter Switch supplied or approved by Philips Electrical Ltd.

Lamps grouped for the A.C. 50 Cycle Voltages shown in table.

Class and Rating	A.C. 50 Cycle Voltage Range	Approx. Tot. Init. Watts with Appar. on 230V.	Colours "Daylight" "Warm White" "Natural" "Colour Matching" "Mellow"	Nominal Lumens		Nom. Init. Efficiency at 100 Hours Lm/W	Approximate Dimensions ins.		Caps	Price Each	
				Init. at 100 Hours	Aver. through Life		Nom. Overall Length	Dia.		List	P. Tax Extra
MCF/U 15W. 18" x 1"	100-130V.	40W.*	WW-N-M	465	380	31	18	1	Two Med. Bi-pin G13/23	s. d. 9 9	s. d. 2 3
MCF/U 20W. 2ft. x 1 1/2"	100-130V.	52W.*	WW-N-M	680	560	34	24	1 1/2	G13/35	10 6	3 0
MCF/U 30W. 3ft. x 1"	200-250V.	40W.	WW-N-M	1,260	1,100	42	36	1	G13/23	11 0	2 8
†MCF/U 40W. 2ft. x 1 1/2"	100-130V.	100W.*	WW-N-M	1,200	1,000	30	24	1 1/2	G13/35	11 0	2 8
†MCF/U 40W. 4ft. x 1 1/2"	200-250V.	50W.	D-WW-N-M	2,080	1,800	52	48	1 1/2	G13/35	11 9	2 10
†MCF/U 80W. 5ft. x 1 1/2"	200-250V.	96W.	D-WW-N-M	4,000	3,200	50	60	1 1/2	Two B.C. (B22/25 x 26)	13 0	3 3
†MCF/U 40W. 4ft. x 1 1/2"	200-250V.	50W.	C.M.	1,600	1,200	40	48	1 1/2	Two Med. Bi-pin G13/35	13 3	3 3
†MCF/U 80W. 5ft. x 1 1/2"	200-250V.	96W.	C.M.	2,960	2,200	37		1 1/2	Two B.C. (B22/25 x 26)	14 6	3 6

Lm/W.—Lumens per watt. The Average Through Life Values are those for the first 5,000 hours life, and are intended to provide practical guidance for lighting design purposes.

Luminous efficiencies: For MCF/U 80W. 5 ft. and 40W. 4 ft. are quoted above in "Daylight," "Warm White" and "Colour Matching." For MCF/U 15W. 18", 20W. 2 ft., 30W. 3 ft., and 40W. 2 ft., are quoted above in "Natural": efficiencies in "Mellow" and "Colour Matching" are a little lower.

The overall lengths of the bi-pin capped lamps include the pins of both caps. When in the lampholders, the nominal overall lengths are as shown.

With special apparatus in circuit these lamps may be used on similar D.C. voltages. Details on request.

These lamps may be operated in any position.

\* For two lamps in series on one ballast with two starters on A.C. 50 cycles 230 volts.

† Lamps of these ratings and colours for use with approved instant-start apparatus are also available. Additional price each 1s. 0d. plus P.T. 3d.

PURCHASE TAX—The lamps listed above ARE SUBJECT TO PURCHASE TAX AS SHOWN.

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# CIRCULAR FLUORESCENT LAMPS

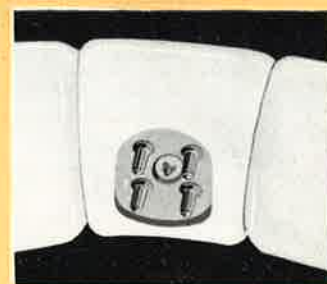
PHILIPS now add to the existing range of fluorescent lamps a Circular Lamp type MCF/U 40W. 16 in. diameter having a more compact form. A specially designed 4-pin cap completely closes the circle by filling the gap between the ends of the lamp tube.

Suitable for decorative and domestic lighting.



Class and Rating	A.C. 50 cycle Voltage Range	Approx. Tot. Init. Watts with Appar. on 230V.	Colour	Nom. Init. Efficiency at 100 Hours Lm/W	Approximate Dimensions	Cap	Price Each	
							List	P. Tax extra
MCF/U 40W 16" circular	200-250V.	50 W.	Mellow	34	Outside dia. 403 ± 8 m.m. Inside dia. 339 ± 4 m.m. Tube dia. 32 ± 2 m.m.	4-pin special	s. d. 35 0	s. d. 8 5

This new lamp can be used with Standard Philips MCF/U 40W. Ballasts and PF Capacitors and K3080 Starters.



The cap pins are movable through an angle of  $\pm 5^\circ$  from the set position of  $45^\circ$  to plane of lamp.

## FLUORESCENT STARTERS

These starters are of the automatic glow switch type, operating with a predetermined delay of a moment or two after switching on the supply, to ensure the optimum starting conditions for the lamp.

Each starter, with a small capacitor and a series resistance, is housed within a sealed canister with four contact pins which lock into the special starterholders. One starter must be used in circuit with each lamp.

Philips Fluorescent Starters are interchangeable with other makes of starters of similar types and ratings. Information about other types of Starters on request.

Cat. No.	For Lamp Class and Rating	A.C. 50 Cycle Mains Voltage	Approximate Dimensions		List Price Each
			Overall Length	Diameter	
K.3080	MCF/U 30W. 3' MCF/U 40W. 4' MCF/U 80W. 5'	200-250V.	2"	1 1/8"	s. d. 6 4

PURCHASE TAX does not apply to the Starter listed above.



Philips Fluorescent Starter  
Cat. No. K3080



Made in Great Britain

# FLUORESCENT LAMP APPARATUS

FOR A.C. MAINS 50 CYCLES

**PURCHASE TAX** does not apply to this apparatus.

**CIRCUITS.** On A.C. supplies, each fluorescent lamp requires a low power factor ballast, a capacitor and a starter. To form a high power factor "twin-lamp" circuit, reducing stroboscopic effects, for the MCF/U 80w. 5 ft., and 40w. 4 ft. lamps, two single lamp low power factor ballasts may be used with a 440v. series capacitor. Please ask for details of connections and state for which mains voltage required.

**HOUSING.** This apparatus usually is housed within the lighting fittings. When this is not possible, the apparatus should preferably be installed in a ventilated metal box. See page 53.

## BALLASTS

### FOR 40w. 4 FT. LAMPS

Cat. No.	For A.C. Voltages	Type	Dimensions	Weight	List Price Each	Std. Pkge. Quantity
H.1740	200-210v.	Elongated	$8\frac{5}{8}" \times 2\frac{3}{8}" \times 1\frac{1}{8}"$	lb. oz. 3 12	£ s. d. 1 12 4	12
H.1741	220-230v.	"	" " "	3 12	1 12 4	"
H.1742	240-250v.	"	" " "	3 12	1 12 4	"

Note 1: Under suitable circumstances these ballasts may be used for twin MCF/U 20w. 2 ft. ( $1\frac{1}{2}"$  dia.) lamps in series. Further details and circuit on request.

### FOR 80w. 5 FT. LAMPS

H.1860	200-210v.	Elongated	$13\frac{1}{4}" \times 2\frac{3}{8}" \times 1\frac{1}{8}"$	6 4	2 5 0	6
H.1861	220-230v.	"	" " "	6 4	2 5 0	"
H.1862	240-250v.	"	" " "	6 4	2 5 0	"

Note 2: These ballasts may be used for twin MCF/U 40w. 2 ft. ( $1\frac{1}{2}"$  dia.) lamps in series. Further details and circuit on request.



## CAPACITORS

**CAPACITOR TYPES.** 275v. For parallel connection in ballast circuits, for power factor improvement.  
440v. For series connection in "twin-lamp" circuits, for the MCF/U 80w. 5 ft. or 40w. 4 ft. lamps. Please ask for details when ordering.

### FOR 40w. 4 FT. LAMPS

Cat. No.	A.C. Max. V.	Cap. mFd.	Circuit	Type	Dimensions	Weight	List Price Each	Std. Pkge. Quantity
H.1709	275v.	3.25	"Single-Lamp"	Elongated	$5" \times 2\frac{3}{8}" \times 1\frac{1}{8}"$	lb. oz. 0 11	£ s. d. 12 8	12
H.1710	440v.	3.5	"Twin-Lamp"	"	$8\frac{3}{4}" \times 2\frac{3}{8}" \times 1\frac{1}{8}"$	1 3	1 0 0	"

### FOR 80w. 5 FT. LAMPS

H.1812	275v.	7.5	"Single-Lamp"	Elongated	$8\frac{3}{4}" \times 2\frac{3}{8}" \times 1\frac{1}{8}"$	1 5	18 4	6
L.4599	275v.	8.0	"	Cubic	$4" \times 4" \times 1\frac{1}{2}"$	1 12	18 4	12
H.1813	440v.	7.0	"Twin-Lamp"	Elongated	$15\frac{1}{4}" \times 2\frac{3}{8}" \times 1\frac{1}{8}"$	2 4	1 11 0	6



## STANDARD BOX QUANTITIES

GENERAL LIGHTING SERVICE LAMPS					DISCHARGE LAMPS		
BOX QUANTITIES					BOX QUANTITIES		
Wattages	Gasfilled, Clear	Gasfilled, Pearl	Vacuum		Lamp Type		Qty.
15	—	—	100		MCF/U 80w. 5ft. $\times 1\frac{1}{2}"$		3
25	—	—	100		MCF/U 40w. 4ft. $\times 1\frac{1}{2}"$		3
40	100	100	—		MCFB/U 40w. 4ft. $\times 1\frac{1}{2}"$		3
60	100	100	—		MCF/U 40w. 2ft. $\times 1\frac{1}{2}"$		3
75	75	75	—		MCF/U 30w. 3ft. $\times 1\frac{1}{2}"$		3
100	50	50	—		MCF/U 20w. 2ft. $\times 1\frac{1}{2}"$		3
150	50	50	—		MCF/U 15w. 18" $\times 1\frac{1}{2}"$		3
200	24	—	—		MBT/U 160w.		12
300	12	—	—		MBT/U 250w.		12
500	9	—	—		MB/V 80w.		12
750	6	—	—		MB/V 125w.		12
1000	6	—	—		MA/V 250w.		12
1500	4	—	—		MA/V 400w.		12
					MBF/V 80w.		12
					MBF/V 125w.		12
					MAF/V 400w.		4
					SO/H 45w. Lamp		12
					SO/H 60w. V.J. Lamp		12
					SO/H 85w. V.J. Lamp		12
					SO/H 140w. V.J. Lamp		12
					MBW/V 125w. V.J.		6
							12
BOX QUANTITIES							
Side Lamps	Head Lamps	Stripflites $8\frac{3}{4}" \times 11\frac{1}{8}"$	Neon	Candle			
288	144	50	50	25			

Made in Great Britain





# BLENDED LAMPS

## Group 9



MBT/U 160W.  
Bulb removed  
to show inner  
construction.

MBT/U 160W.

Philips Blended Lamps are suitable for commercial and industrial lighting, public lighting, and floodlighting. They resemble 200W. and 300W. tungsten lamps in size, shape, caps and light output. The light is of a crisp near-white colour, approaching average daylight quality.

The higher efficiencies of Philips Blended Lamps can be utilised either to economise in electricity by about 20 per cent., or to obtain higher illumination levels without increasing consumption.

Each of these lamps contains a quartz mercury discharge tube, with a filament in series as a resistance ballast and to give light. There is a short restarting delay.

No external apparatus is required, the lamps being for direct connection to A.C. mains. They have long useful lives. Not suitable for D.C. mains.

Lamps grouped for A.C. 50 cycles (200-210V.), (220-230V.), or (240-250V.)

Class and Rating	Nominal Lumens		Nominal Initial Efficiency Lm/W.	Approx. Dimensions m.m.			Finish	Cap	List Price Each
	Initial	Average through Life		Overall Length	Dia.	L.C.L.			
MBT/U 160W.	3,000	2,400	18.7	178	90	D = 128 F = 133	Pearl	B.C. (B22/25 x 26) or E.S. (E27/25)	s. d. 48 0
MBT/U 250W.	5,100	4,250	20.4	233	110	D = 173 F = 178	"	G.E.S. (E40/45)	56 0

L.C.L.—Light Centre Length. Lm/W.—Lumens per watt.

"D"—Discharge. "F"—Filament.

These lamps may be operated in any position.

PURCHASE TAX does not apply to the Blended lamps listed above.

Made in Great Britain



# MERCURY LAMPS AND MERCURY-FLUORESCENT LAMPS

## Group 9

Philips Mercury and Mercury-Fluorescent Lamps are used extensively for public and industrial lighting, and for floodlighting. They give up to three times more light than ordinary lamps of similar consumption, and have long useful lives. When Philips Mercury Lamps are used alone, their bluish-white light gives increased visual acuity while in combination with tungsten lamps, the resultant "blended light" is of crisp white quality, with good overall efficiency. Philips Mercury-Fluorescent Lamps have fluorescent phosphor internal coatings to the bulbs which modify the light to one nearer white than that of the mercury light alone. Use only on A.C. mains in circuit with apparatus supplied or approved by Philips Electrical Ltd.



Lamps grouped for A.C. 50 cycles (200-210V.), (220-230V.), (240-250V.)

Class and Rating	Approx. Total Initial Watts*	Nominal Lumens		Nominal Initial Efficiency Lm/W	Approx. Dimensions m.m.			Finish	Cap	List Price Each
		Initial	Average through Life		Overall Length	Dia.	L.C.L.			
Mercury Lamps										
MB/V 80w. 90w.		3,000	2,500	37	160	80	113	Pearl	3-pin B.C. (B22/31 x 30)	s. d.
MB/V 125w. 135w.		5,300	4,100	42	178	90	128	"	"	39 6
MA/V 250w. 270w.		8,750	8,000	35	290	48	170	Clear	G.E.S. (E40/45)	45 0
MA/V 400w. 425w.		16,800	14,400	42	330	48	190	"	"	54 0
Mercury-Fluorescent Lamps										
MBF/V 80w. 90w.		3,000	2,500	37	178	110	123	Fluor.	3-pin B.C. (B22/31 x 30)	59 0
MBF/V 125w. 135w.		5,300	4,100	42	233	130	167	"	G.E.S. (E40/45)	48 6
MAF/V 400w. 425w.		15,200	12,800	38	335	165	200	"	"	81 6

\* With Apparatus on 230v.

L.C.L.—Light Centre Length. Lm/W.—Lumens per watt.

NORMAL OPERATING POSITION for MA/V lamps is vertical cap up or down. These lamps also may be used horizontally in lanterns fitted with magnetic arc deflectors.

NORMAL OPERATING POSITION for MB/V and MBF/V lamps is vertical cap up. These lamps may be operated in other positions without serious loss of performance.

RAIN: When used for exterior lighting, these lamps should be adequately protected from rain.

### BALLASTS FOR MERCURY AND MERCURY-FLUORESCENT LAMPS

Cat. No.	A.C.	Ballast Price	Use Capacitor	Capacitor Price
<b>For 80w. lamps (MB/V or MBF/V)</b>				
L.3924	190-230v.	£ 3 1 8	L.4600 (8 mfd.s.)	£ 18 4
L.3925	215-255v.	3 1 8	L.4600 (8 mfd.s.)	18 4
<b>For 125w. lamps (MB/V, MBF/V, MBW/V)</b>				
L.3964	190-230v.	4 19 0	L.4604 (13 mfd.s.)	1 9 8
L.3965	215-255v.	4 19 0	L.4604 (13 mfd.s.)	1 9 8
L.3966	190-250v.	4 9 8	L.4604 (13 mfd.s.)	1 9 8
<b>For 250w. lamps (MA/V)</b>				
L.3815	190-230v.	5 11 4	Below 230v.: L.4610 (20 mfd.s.)	2 0 4
L.3816	215-255v.	5 11 4	230v. up: L.4606 (15 mfd.s.)	1 13 4
<b>For 400w. lamps (MA/V, MAF/V)</b>				
L.3776	190-230v.	6 8 0	L.4610 (20 mfd.s.)	2 0 4
L.3777	215-255v.	6 8 0	L.4610 (20 mfd.s.)	2 0 4

PURCHASE TAX does not apply to the items listed on this page.



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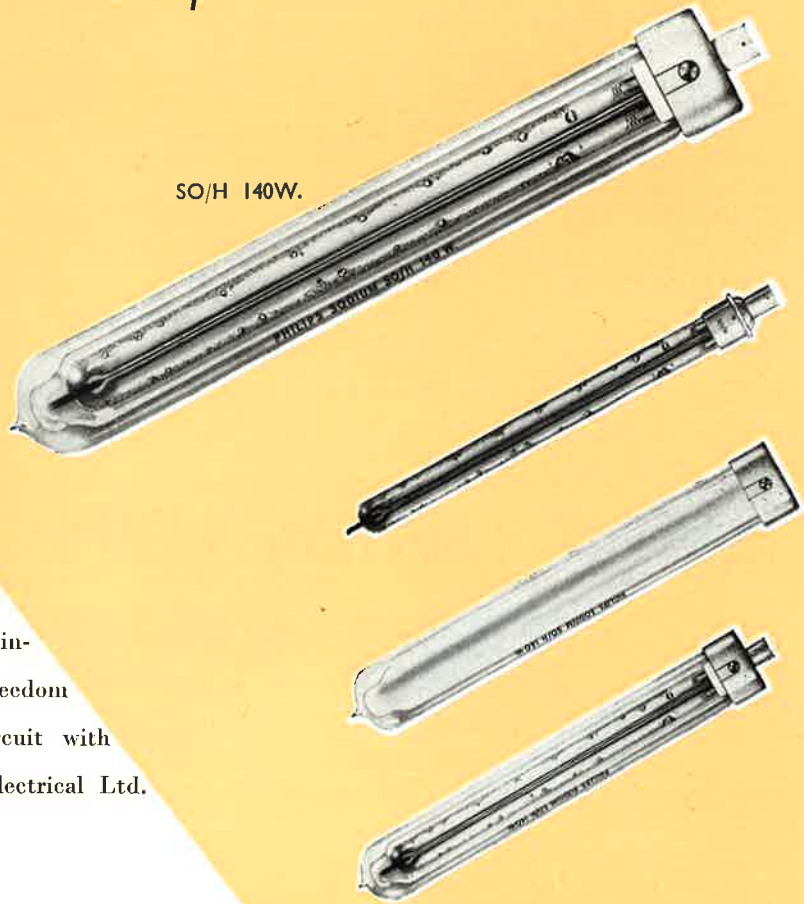
# SODIUM LAMPS

## Group 9

### Philips Sodium

Lamps are well known and extensively used for public lighting, floodlighting and some types of industrial lighting, where colour discrimination is not required. They give up to five times more light than ordinary lamps of similar consumption and have long useful lives. Excellent visibility is obtained under the monochromatic yellow sodium light, due to the increased visual acuity, enhanced contrasts, and freedom from glare. Use only on A.C. mains in circuit with apparatus supplied or approved by Philips Electrical Ltd.

SO/H 140W.



Class and Rating	Approx. Total Inc. Watts with Apparatus on 230V.	Nominal Lumens		Nominal Initial Efficiency Lm/W	Approx. Dimensions (Lamps in Jackets) m.m.			Finish	Cap (Ceramic)	List Price Each	
		Initial	Average through Life		Overall Length	Dia.	L.C.L.			Lamp only	V.J. only
SO/H 45W.	65W.	2,700	2,200	60	238	50	140	Clear	B.C. (B22/S)	s. d. 42 6	s. d. 21 9
SO/H 60W.	80W.	4,200	3,400	70	300	50	170	"	"	52 6	24 6
SO/H 85W.	105W.	6,460	5,400	76	415	50	230	"	"	63 0	29 3
SO/H 140W.	165W.	10,640	9,000	76	518	65	280	"	B.C. (B22/M)	74 6	33 0

### BALLASTS and CAPACITORS

Cat. No.	A.C.	Ballast List Price Each	45 & 60W. Use Capacitor	Cap'tor List Price Each	85W. Use Capacitor	Cap'tor List Price Each
For 45W., 60W. 85W. Lamps (SO/H)						
L.3611	190-210V.	£ 17 0	L.4610	£ 2 0 4	L.4606	£ 1 13 4
L.3612	210-230V.	£ 17 0	L.4610	£ 2 0 4	L.4606	£ 1 13 4
L.3613	230-250V.	£ 17 0	L.4606	£ 1 13 4	L.4606	£ 1 13 4
For 140W. Lamps (SO/H)						
L.3631	190-210V.	£ 15 0	L.4610	£ 2 0 4	—	—
L.3632	210-230V.	£ 15 0	L.4610	£ 2 0 4	—	—
L.3633	230-250V.	£ 15 0	L.4610	£ 2 0 4	—	—

L.C.L.—Light Centre Length.  
Lm/W—Lumens per watt.  
Normal operating position for all these lamps is horizontal. The SO/H 45W. and 60W. may be operated from the vertical to the horizontal cap up. The SO/H 85W. and 140W. may be operated from the horizontal down to 20° below, cap up. Caps must never be lower than the lamp tubes. The detachable vacuum jackets may be used with several replacement lamps.

PURCHASE TAX does not apply to the items listed on this page.

Made in Great Britain





# GERMICIDAL TUBES

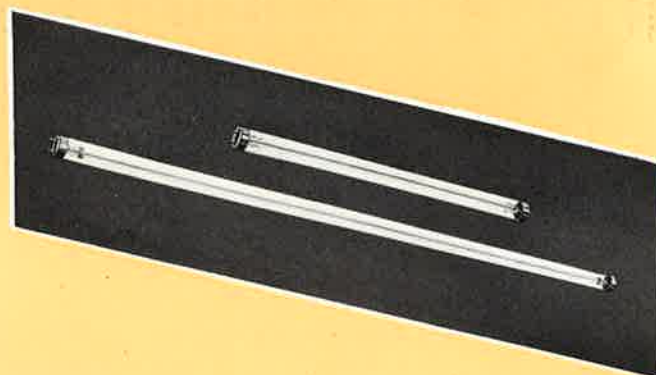
Made in Holland

Most of the energy radiated by Philips TUV tubes has a wave-length of 2537 Angstrom Units (short-wave, ultra-violet). 2537 Å radiation attacks the cell structure of micro-organisms and is thus highly effective against the germs, mould and fungus spores, wild yeasts and bacteria which cause human infections, spoil food and beverages, and contaminate pharmaceutical products. Such harmful and costly infection can be prevented by Philips Germicidal TUV tubes when used for:—

- (i) Direct radiation for surface sterilization.
- (ii) Indirect upper-air irradiation.
- (iii) Air-conditioning systems and air ducts.

Details of tube apparatus, reflectors, recommended radiation schemes, and prices, available on application. The special glass used in Philips TUV tubes does not permit ultra-violet rays of wavelengths below 2000 Å to pass through, so that initial formation of ozone is only slight, and negligible after 100 hours' burning. These tubes should not be viewed directly for lengthy periods unless glasses or protective goggles are worn.

Effective doses of germicidal radiation depend on the type of germ, intensity and duration of the radiation, area irradiated and distance from the tube.



Class and Rating	Tube Current Amps.	Tube Watts	Intensity W.2537Å pW/cm²	Energy Output UV2537Å Watts	Approx. Dimensions		Cap Two	List Price each s. d.
					Overall length	Dia.		
TUV 15W.	0.33	15	30	2.9	18"	1½"	Med. Bi-pin G13/35	70 0
TUV 30W.	0.37	30	75	7.2	36"	1½"	do.	108 0

## MERCURY PRINTING LAMPS

Made in Holland

Phillips Repro Lamp Type MBR/U 125W. is a high pressure mercury discharge lamp specifically designed for the printing industry. No additional lamp housing is required and the lamp is particularly suitable for photo-copying, plate making and photo-litho processes. In addition to the visible light emitted in the blue part of the spectrum there is considerable radiation in the near ultra-violet region, this being the region in which photographic and reproduction materials are most sensitive.

The bulb is specially shaped so that the combination of internally silvered reflector and granular front result in an extremely even beam of light. This beam pattern is designed to give maximum uniformity of illumination on the reproduction board when inclined at an angle of 35°. These lamps should only be operated in series with Philips Ballasts Cat. Nos. L.3964, L.3965 and L.3966.

Lamp grouped for A.C. 50 cycles (200-210v.), (220-230v.), or (240-250v.)

Class and Rating	Approx. Total Initial Watts*	Approximate Dimensions m.m.		Finish	Cap	List Price Each
		Overall Length	Dia.			
MBR/U 125W.	135	232	108	Internal Reflector	E.S.	s. d. 76 6



## ULTRA-VIOLET FILTER MERCURY LAMPS

Made in Great Britain

Phillips Ultra-Violet Mercury Filter Lamps emit practically no visible light and are intended only for the production of fluorescence by the irradiation of fluorescent materials with 3650 Å U.V. radiation. Fluorescent paints and materials are supplied by specialist manufacturers (names on request). The soft, self-luminous and richly coloured glow of such fluorescence is most attractive. These lamps are also used in laboratories for the examination or analysis of various substances, as well as in forensic science for the detection of forgeries and the examination of stains. Concentrating reflectors should be used to direct the U.V. radiation where required. The lamps have long useful lives. Use only on A.C. mains in circuit with apparatus supplied or approved by Philips Electrical Ltd.

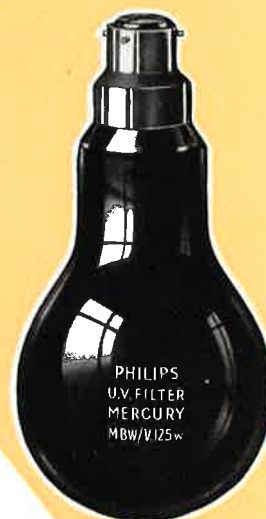
Lamp grouped for A.C. 50 cycles (200-210v.), (220-230v.), or (240-250v.)

Class and Rating	Approx. Total Init. Watts*	Near Ultra-Violet Radiation	Approx. Dimen. m.m.			Finish	Cap	List Price Each
			Overall Length	Dia.	L.C.L.			
MBW/V 125W.	135W.	At 3023 Å less than 2% At 3130 Å less than 6% At 3650 Å not less than 40%	178	90	128	Black	3-pin B.C. (B22/31 x 30)	s. d. 63 0

\* with apparatus on 230v.

L.C.L.—Light Centre Length. Normal operating position is vertical cap up, but these lamps may be operated in other positions without serious loss of performance.

PURCHASE TAX does not apply to the lamps listed on this page.



# DISCHARGE LAMP APPARATUS

FOR A.C. MAINS 50 CYCLES

**PURCHASE TAX** does not apply to this apparatus.

**BALLAST TYPES.** All are tapped, low power factor, "single-lamp" type.

**CAPACITOR TYPES.** These are recommended for use in parallel connection, 275v., A.C. max., for power factor improvement.

**HOUSING.** This apparatus usually is housed in boxes and installed close to the lighting fittings. For details of suitable boxes, see Page 53.

## BALLASTS FOR MERCURY AND MERCURY-FLUORESCENT LAMPS

FOR 80w. LAMPS (MB/V or MBF/V)

Cat. No.	A.C.	Ballast Tapped	Description	Use Capacitor Cat. No.	Weight	List Price Each
L.3924	190-230v.	5v.	Solid Filled	L.4600	lb. oz.	£ s. d.
L.3925	215-255v.	5v.	" "	"	7 4	3 1 8
					7 4	3 1 8

FOR 125w. LAMPS (MB/V, MBF/V, MBW/V or MBR/U)

L.3964	190-230v.	5v.	Solid Filled	L.4604	8 12	4 19 0
L.3965	215-255v.	5v.	" "	"	9 0	4 19 0
L.3966	190-250v.	10v.	Protected Terminals	"	7 14	4 9 8

FOR 250w. LAMPS (MA/V)

L.3815	190-230v.	5v.	Solid Filled	L.4606 or L.4610 (See Note 1)	9 12	5 11 4
L.3816	215-255v.	5v.	" "	L.4606 or L.4610 (See Note 1)	10 0	5 11 4

Note 1: Use the L.4610 capacitor on voltages below 230v., the L.4606 on 230v. and above.

FOR 400w. LAMPS (MA/V)

L.3776	190-230v.	5v.	Solid Filled	L.4610	15 4	6 8 0
L.3777	215-255v.	5v.	" "	"	14 12	6 8 0



## BALLASTS FOR SODIUM LAMPS

FOR 45w., 60w., or 85w. LAMPS (SO/H)

Cat. No.	A.C.	Ballast Tapped	Description	Use Capacitor Cat. No.	Weight	List Price Each
L.3611	190-210v.	10v.	Protected Terminals	(See Note 1)	lb. oz.	£ s. d.
L.3612	210-230v.	10v.	" "	"	12 0	4 17 0
L.3613	230-250v.	10v.	" "	"	10 15	4 17 0
					10 15	4 17 0

Note 1: For the SO/H 85w. use L.4606 capacitor. For the SO/H 45w. and 60w. on 190-230v. use L.4610 capacitor; above 230v. use L.4606 capacitor.

FOR 140w. LAMPS (SO/H)

L.3631	190-210v.	10v.	Protected Terminals	L.4610	14 8	5 15 0
L.3632	210-230v.	10v.	" "	"	14 12	5 15 0
L.3633	230-250v.	10v.	" "	"	14 12	5 15 0



## CAPACITORS FOR DISCHARGE LAMP CIRCUITS (275 A.C. MAX.)

Cat. No.	Approx. Capacitance mFd.	Connection	Weight	List Price Each
L.4600	8	T.R.S. Leads	lb. oz.	£ s. d.
L.4602	10	" "	1 12	18 4
L.4604	13	" "	1 14	1 5 8
L.4606	15	" "	2 0	1 9 8
L.4610	20	" "	2 4	1 13 4
L.4614	30	" "	2 12	2 0 4
L.4615	30	" "	3 8	2 19 4
L.4616	30	Conduit Entry	3 12	3 2 8
L.4617	40	T.R.S. Leads	5 4	3 16 0
L.4620	40	Conduit Entry	5 8	3 19 4
L.4620	60	T.R.S. Leads	8 12	5 9 0
L.4621	60	Conduit Entry	9 0	5 12 4
L.4624	80	T.R.S. Leads	10 12	7 2 0
L.4625	80	Conduit Entry	11 0	7 5 0
L.4628	100	T.R.S. Leads	12 12	8 15 0
L.4629	100	Conduit Entry	13 0	8 18 4
L.4630	120	T.R.S. Leads	13 12	10 8 0
L.4631	120	Conduit Entry	14 0	10 11 4



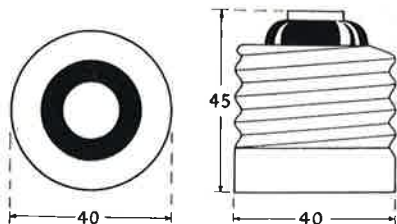
Made in Great Britain

# PRINCIPAL TYPES OF LAMP CAPS

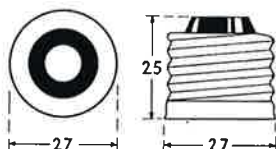
*B.S.S. Cap Designations.*

*Millimetre Dimensions*

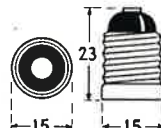
## EDISON SCREW



E.40/45  
Goliath (G.E.S.)



E.27/25  
Standard (E.S.)



E.14/23 x 15  
Small (S.E.S.)

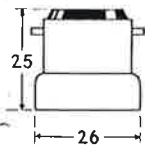


E.10/13  
Miniature (M.E.S.)

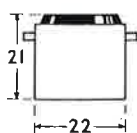
## BAYONET



B.22/25 x 26  
(B.C.)



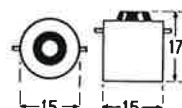
B.22/21  
(B.C.)



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

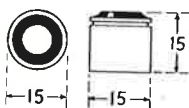


B.15s/17  
(S.C.C.)

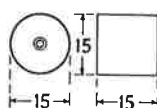


B.22/31 x 30 (3-Pin)

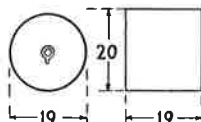
## DOUBLE-ENDED



S.15s  
Centre  
Contact

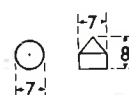


S.15  
Clip  
Contact

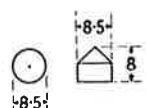


S.19  
Clip  
Contact

## FESTOON LAMP



S.7/8



S.8.5/8





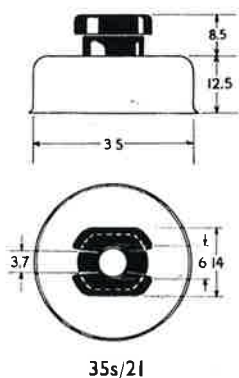
# PRINCIPAL TYPES OF LAMP CAPS

(Continued)

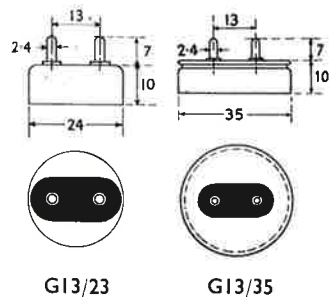
*B.S.S. Cap Designations*

*Millimetre Dimensions*

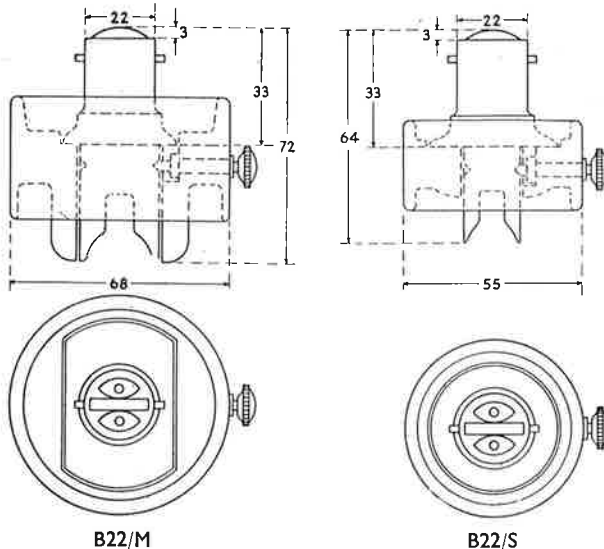
## SINGLE CONTACT



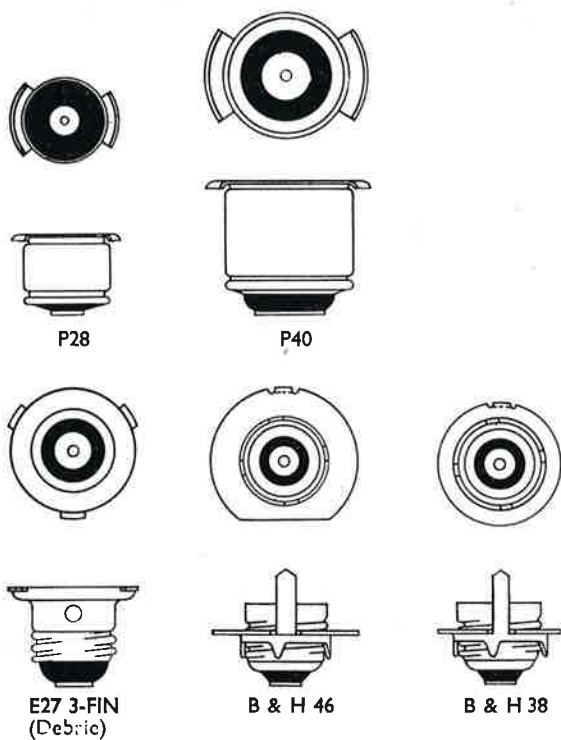
## MEDIUM BI-PIN



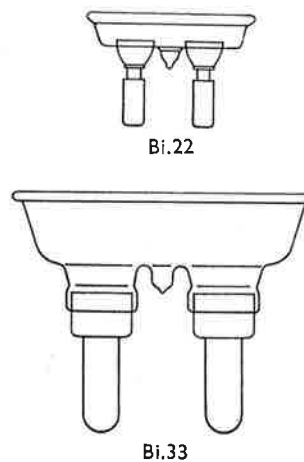
## 2-PIN BAYONET & V.J. RING CERAMIC



## PRE-FOCUS



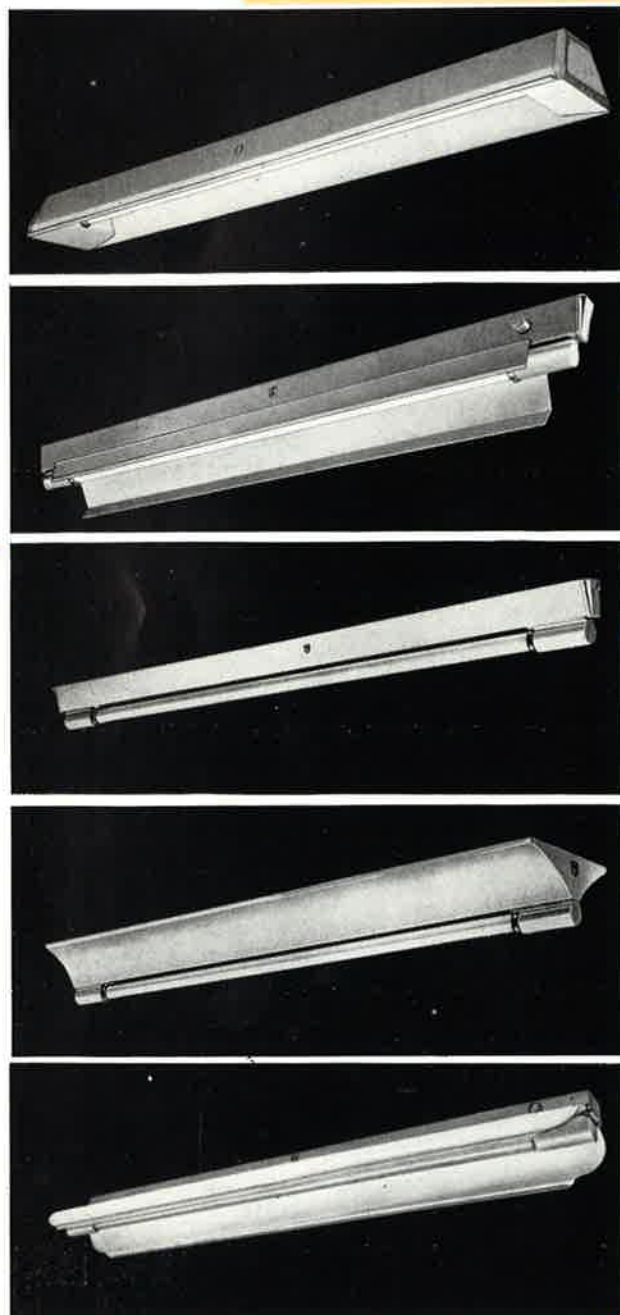
## BI-POST



# INDUSTRIAL FLUORESCENT LIGHTING FITTINGS

FOR SINGLE OR TWIN 80W. 5 FT. LAMPS

All fittings include H.P.F. Apparatus and Starters. Finish: White Stove Enamel unless stated otherwise.



GENERAL DESCRIPTION		LIST PRICE (excluding lamps and suspensions)		
		£	s.	d.
<b>Closed-end Trough, grey exterior</b>				
For Single	(A.7300 Chain or A.7271 Tube Suspensions extra)			
80W. 5 ft. lamp	<b>A.6000 "ANDOVER"</b>	9	8	0
Fixing Centres: A.6000 30" ( $\frac{3}{4}$ " conduit)				
<b>Open-end Angle fitting</b>				
For Single	(A.7300 Chain or A.7271 Tube Suspensions extra)			
80W. 5 ft. lamp	<b>A.6010 "ARDEN"</b>	9	13	8
Fixing Centres: A.6010 36" ( $\frac{3}{4}$ " conduit)				
<b>Ceiling Channel</b>				
For Single				
80W. 5 ft. lamp	<b>A.6001 "AYLESBURY"</b>	7	0	8
For Twin				
80W. 5 ft. lamps	<b>A.6031 "ABBOTSBURY"</b>	11	17	8
Fixing Centres: A.6001 36" ( $\frac{3}{4}$ " conduit) A.6031 51" ( $\frac{3}{4}$ " conduit)				
<b>Ceiling Vee</b>				
For Single				
80W. 5 ft. lamp	<b>A.6002 "ALDERSHOT"</b>	8	16	0
For Twin				
80W. 5 ft. lamps	<b>A.6032 "ANTRIM"</b>	13	15	8
Fixing Centres: A.6002 36" ( $\frac{3}{4}$ " conduit) A.6032 51" ( $\frac{3}{4}$ " conduit)				
<b>Open-end detachable Trough</b>				
(A.7300 Chain or A.7271 Tube Suspensions extra)				
	Single			
<b>"AXMINSTER"</b>	<b>A.6003</b>	9	0	8
<b>"AXBRIDGE"</b>	<b>A.6033</b>	14	2	8
With vitreous enamel reflector only				
<b>"AXMINSTER"</b>	<b>A.6004</b>	11	17	8
<b>"AXBRIDGE"</b>	<b>A.6034</b>	18	1	0
With "Perspex" Reflector				
<b>"ABERDARE"</b>	<b>A.6005</b>	13	8	4
Fixing Centres A.6003/4/5 36" ( $\frac{3}{4}$ " conduit) A.6033/4 51" ( $\frac{3}{4}$ " conduit)				

Lighting Fittings for Trunking Systems are available; details on request.

Fluorescent Lamps are listed on page 32 and details of apparatus, mains voltages and suspension sets are on page 44.

Upward Light  
Cat. Nos. A.6003, A.6004, A.6033, and A.6034 can be supplied with slotted reflectors if ordered specially. No extra charge.

Made in Great Britain

# INDUSTRIAL FLUORESCENT LIGHTING FITTINGS

FOR SINGLE OR TWIN 40W. 4 FT. LAMPS

All fittings include H.P.F. Apparatus and Starters. Finish: White Stove Enamel unless stated otherwise.

GENERAL DESCRIPTION		LIST PRICE (excluding lamps and suspensions)
		£ s. d.
	<b>Ceiling Channel</b>	
	<i>For Single</i> 40W. 4 ft. lamp <b>A.6150 "ASHFORD"</b>	6 1 0
	<i>For Twin</i> 40W. 4 ft. lamps <b>A.6185 "ALTON"</b> Fixing Centres: 30" ( $\frac{3}{8}$ " cond.)	9 17 0
	<b>Open-end detachable Trough</b> (Cat. Nos. A.7270 Chain or A.7271 Tube Suspensions extra)	
	<i>For Single</i> 40W. 4 ft. lamp <b>A.6155 "ASHBURTON"</b>	7 10 4
	<i>For Twin</i> 40W. 4 ft. lamps <b>A.6190 "ALNESS"</b> Fixing Centres: 30" ( $\frac{3}{8}$ " cond.)	11 11 0
	<b>Open-end detachable "Perspex" Trough</b> (Cat. Nos. A.7270 Chain or A.7271 Tube Suspensions extra)	
	<i>For Single</i> 40W. 4 ft. lamp <b>A.6160 "ASHTON"</b>	10 17 4
	<i>For Twin</i> 40W. 4 ft. lamps <b>A.6195 "ALBANY"</b> Fixing Centres: 30" ( $\frac{3}{8}$ " cond.)	15 6 4
	<b>Open-end Angle fitting</b> (Cat. Nos. A.7270 Chain or A.7271 Tube Suspensions extra)	
	<i>For Single</i> 40W. 4 ft. lamp <b>A.6145 "ASHCROFT"</b>	7 16 4
	<i>For Twin</i> 40W. 4 ft. lamps <b>A.6192 "ABERFORD"</b> (Closed end) Fixing Centres: 30" ( $\frac{3}{8}$ " cond.)	11 17 4
	<b>Ceiling Vee</b>	
	<i>For Single</i> 40W. 4 ft. lamp <b>A.6162 "ASHLEY"</b>	7 7 0
	<i>For Twin</i> 40W. 4 ft. lamps <b>A.6197 "APPLEBY"</b> Fixing Centres: 30" ( $\frac{3}{8}$ " cond.)	11 5 0

Made in Great Britain

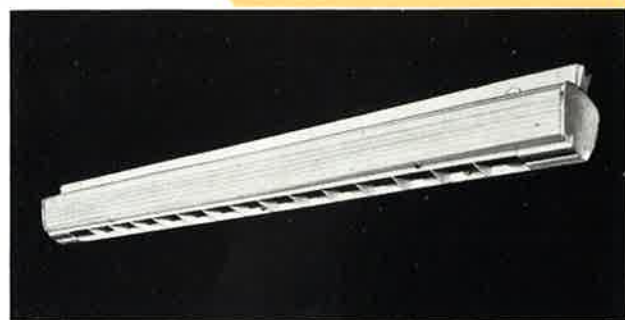
Fluorescent Lamps are listed on page 32 and details of apparatus, mains voltages and suspension sets are on page 44.





# COMMERCIAL FLUORESCENT LIGHTING FITTINGS

FOR SINGLE OR TWIN 80W. 5 FT. & 40W. 4 FT. LAMPS.



Fitting with reeded "Perspex" panels and metal louvre  
(Cat. Nos. A.7300 Chain or A.7271 Tube Suspensions extra)

Single lamp  
80W. 5 ft.

**A.6060 "APSLEY"**

P.T.

£ s. d.

16 19 4  
3 7 4

20 6 8

Twin lamps  
80W. 5 ft.

**A.6064 "ABINGDON"**

P.T.

23 3 8  
4 2 6

27 6 2

Fixing Centres: As A.6001 and A.6301



"Perspex" Cornice Fitting

Single lamp  
40W. 4 ft.

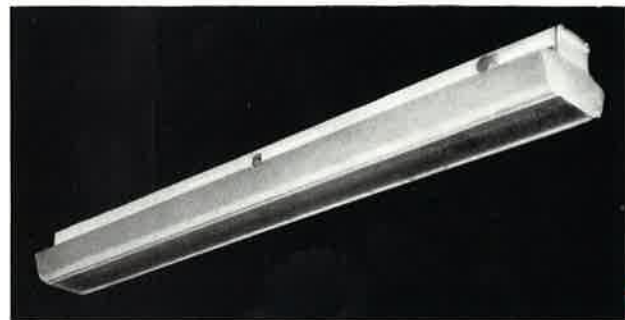
**A.6140 "ABBEY"**

P.T.

12 8 8  
2 9 4

14 18 0

Fixing Centres: 30" (3" cond.)



"Perspex" Diffuser Fitting

Single lamp (Cat. Nos. A.7270 Chain or A.7271 Tube Suspensions extra)  
40W. 4 ft.

**A.6400 "ANGLESEY"**

P.T.

12 1 8  
2 7 8

14 9 4

Twin lamps  
40W. 4 ft.

**A.6405 "ARUNDEL"**

P.T.

17 8 0  
3 2 8

20 10 8

Fixing Centres: 30" (3" cond.)

## SUSPENSION SETS

Cat. Nos. of suitable Chain or Tube Suspension Sets are shown in brackets under description of fittings on pages 42-44. Please order additionally by Cat. No.

Cat. Nos. A.7270 and A.7300 Chain Sets ... 9s. 8d. per set

Cat. No. A.7271 Tube Set ... 13s. 0d. per set

## APPARATUS

All these Philips Fittings supplied complete with Philips H.P.F. Apparatus and Starters wired ready for use. Lamps not included should be ordered additionally.

## MAINS VOLTAGE

These Philips Fittings are available for one of three A.C. 50 cycle voltage groups (200-210V.), (220-230V.) or (240-250V.). Please specify A.C. mains voltage. Fittings for other A.C. voltages or for D.C. on request. Tapped 80w. ballasts are available in certain fittings.

## CLEANING "PERSPEX"

We recommend "Perspex" Polish No. 3 for cleaning "Perspex" fittings. Jars: 4 oz., 2s. 6d., and 8 oz., 4s. 0d. net.

Made in Great Britain



# INSTANT - SELF - START

## COMMERCIAL FLUORESCENT LIGHTING FITTINGS

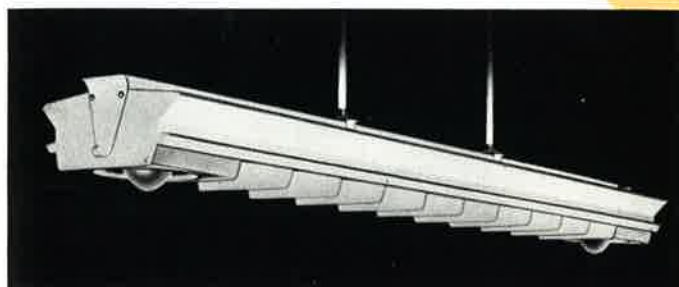
### GENERAL DESCRIPTION

The important feature of the Philips Instant-Self-Start Fluorescent Lighting Fittings illustrated on this page and the next is that they require NO APPARATUS, with consequent saving in capital outlay. The Philips Fluorescent Lamp (Class MCFB/U) operates in series with a Philips Tungsten Ballast Lamp controlling the current and producing additional light with high efficiency.

The fittings are lightweight, simple to install, instant-self-starting and have a power factor of 0.97 approx. The overall luminous efficiency is about 22 lumens/watt initial or double that of ordinary tungsten lamps.

Radio interference suppressors are incorporated in each fitting.

Lamp details are given on pages 30 and 31.



All-metal semi-indirect fitting  
in ivory stove enamel  
(Cat. No. A.7280 Tube Suspension Set extra)

**A.6240 "AMESBURY"**

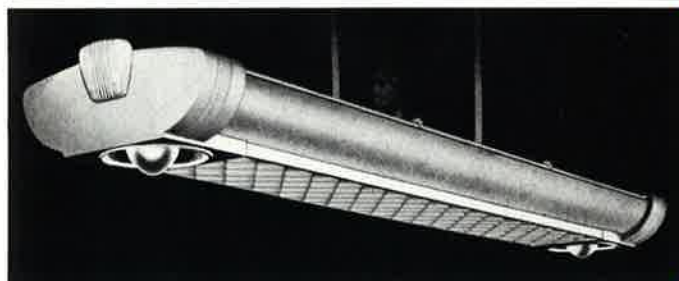
P.T.

Fixing Centres: 17½" Weight: 14½ lbs. approx. (incl. lamps)

LIST PRICE  
(excluding lamp and  
suspensions)

£ s. d.

8	0	0
2	0	0
10	0	0



Diffuser fitting with "Crinothene"  
side panels and plastic louvre  
(Cat. No. A.7280 Tube Suspension Set extra)

**A.6246 "ALVA"**

P.T.

Fixing Centres: 17½" Weight: 11½ lbs. approx. (incl. lamps)

8	16	0
2	4	0
11	0	0

### SUSPENSION SETS

Cat. No. A7280. All-metal Tube Suspension Set, specially designed for the above fittings, comprising ceiling box and 21" suspension tubes, in ivory stove enamel finish. List price 28s. 0d. Alternative standard suspension lengths can be supplied if required (10", 49"). Additional lengths may be coupled together by means of a Connecting Sleeve, Cat. No. A7295C. List price 1s. 0d. each.  
Cat. No. A7312C. Wood Block for A7280 Tube Set. List price 6s. 0d. each.

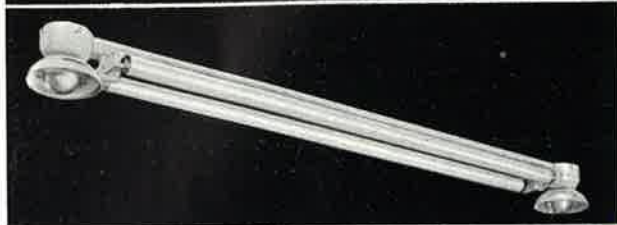
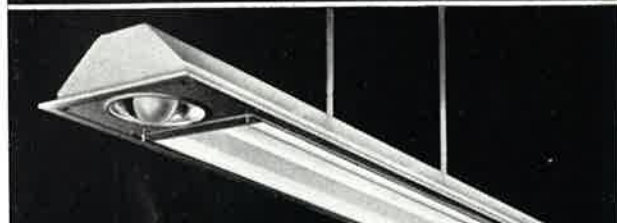


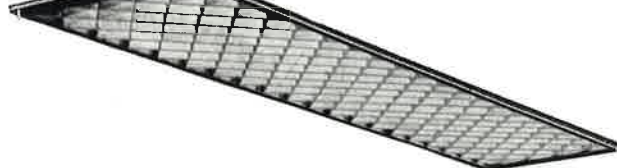
### MAINS VOLTAGES

For A.C. 220-250V. mains. Not for D.C. Please order the Ballast Lamps for 220-230V., 240V. or 250V. as required. For A.C. 200-210V. mains, Cat. No. H.1723 transformer is available (List price 52s. 6d.) for mounting adjacent to these fittings.

Made in Holland



# INSTANT - SELF - START INDUSTRIAL FLUORESCENT LIGHTING FITTINGS

	GENERAL DESCRIPTION	LIST PRICE (excluding lamp and suspensions)
	Single lamp batten fitting for ceiling mounting, in ivory stove enamel <b>A.6270 "ARGYLL"</b> <i>Made in Great Britain</i> Weight: 4 lb. 6 ozs. (inc. lamps)	£ s. d. 2 10 6
	Twin lamp batten fitting for ceiling mounting, in ivory stove enamel <b>A.6275 "ARRAN"</b> <i>Made in Great Britain</i> Weight: 6 lb. (inc. lamps)	3 14 0
	All-metal trough fitting, stove enamel, white inside, grey outside (Cat. Nos. A.7280 Tube, A.7270 Chain or A.7271 Tube Suspension Sets extra) <b>A.6252 "ARDINGLEY"</b> <i>Made in Holland</i> Can be fitted with Cat. No. A.6260 Metal Louvre. Fixing Centres: 41½" or 17½" (¾" cond.) Weight: 16½ lb. (incl. lamps)	7 4 0
	All-metal trough fitting with slotted reflector. Stove enamel, white inside, grey outside. (Suspension Sets and Fixing Centres as for A.6252 "Ardingley") <b>A.6256 "ARBROATH"</b> <i>Made in Holland</i> Can be fitted with Cat. No. A.6260 Metal Louvre. Weight: 17½ lb. (inc. lamps)	7 4 0
	All-metal Louvre <b>A.6260</b> <i>Made in Holland</i> For single attachment to Cat. No. <b>A.6252 "ARDINGLEY"</b> and <b>A.6256 "ARBROATH"</b>	2 12 6 13 2 *P.T.

## SUSPENSION SETS

Cat. No. A.7280—See page 45 for details and price. Unsuitable for use with Cat. No. A.6270 "Argyll" and A.6275 "Arran."

Cat. No. A.7270—Chain Set ... .. List Price 9s. 8d.

Cat. No. A.7271—Tube Set ... .. " " 13s. 0d.

Lamp details are given on pages 30 and 31.





# INDUSTRIAL LIGHTING FITTINGS

FOR TUNGSTEN OR BLENDED LAMPS



**Standard Dispersive Reflector.**  $1\frac{1}{8}$ " hole type. Lampholder not included. Spacing-Height Ratio  $1\frac{1}{2} : 1$ .

- W.8506.** For 40W. lamp. 10" dia. 5" ht. 1 lb. app. wt.  
**W.8507.** For 60W. lamp. 12" dia. 6" ht.  $1\frac{3}{4}$  lb. app. wt.  
**W.8508.** For 100W. lamp. 14" dia.  $7\frac{1}{4}$ " ht.  $2\frac{1}{4}$  lb. app. wt.  
**W.8536.** For 150W. lamp. 14" dia.  $7\frac{1}{4}$ " ht.  $2\frac{1}{4}$  lb. app. wt.  
**W.8509.** For 200W. or MBT/U 160W. lamp. 16" dia. 9" ht.  $3\frac{1}{4}$  lb. app. wt.

LIST PRICE  
(excluding lamps)

£ s. d.

12 4

15 0

17 4

18 8

1 5 4



**Deep Dispersive Fitting.** Detachable weatherproof canopy top, tapped  $\frac{3}{4}$ " conduit. Complete with porcelain lampholder. Spacing-Height Ratio  $1\frac{1}{2} : 1$ .

- W.8502.** For 100W. lamp. B.C. hldr. 14" dia. 9" ht.  $3\frac{1}{4}$  lb. app. wt.  
**W.8537.** For 150W. lamp. B.C. hldr. 14" dia. 9" ht.  $3\frac{1}{4}$  lb. app. wt.  
**W.8503.** For 200W. or MBT/U 160W. lamp. E.S. hldr. 16" dia.  $10\frac{1}{2}$ " ht. 4 lb. app. wt.  
**W.8504.** For 300-500W. or MBT/U 250W. lamp. G.E.S. hldr. 18" dia. 13" ht. 5 lb. app. wt.

1 12 4

1 13 4

2 0 0

3 5 4



**Dispersive "Overlamp" Fitting.** Weatherproof top, tapped  $\frac{3}{4}$ " conduit. Complete with porcelain lampholder. Spacing-Height Ratio  $1\frac{1}{2} : 1$ .

- W.8527.** For 150W. lamp. B.C. hldr. 14" dia.  $10\frac{1}{2}$ " ht. 4 lb. app. wt.  
**W.8528.** For 200W. or MBT/U 160W. lamp. E.S. hldr. 16" dia.  $11\frac{1}{2}$ " ht. 5 lb. app. wt.  
**W.8529.** For 300W. or MBT/U 250W. lamp. G.E.S. hldr. 18" dia.  $14\frac{1}{2}$ " ht.  $6\frac{1}{2}$  lb. app. wt.  
**W.8530.** For 500W. lamp. G.E.S. hldr. 18" dia.  $14\frac{1}{2}$ " ht.  $6\frac{1}{2}$  lb. app. wt.

1 18 4

2 5 8

3 9 8

3 9 8



**Elliptical Angle Fitting.** Detachable weatherproof canopy top, tapped  $\frac{3}{4}$ " conduit. Complete with porcelain lampholder. Spacing details on request.

- W.8510.** For 100-150W. lamp. B.C. hldr.  $13" \times 9\frac{3}{4}"$  dia.  $11\frac{3}{4}"$  ht.  $2\frac{1}{2}$  lb. app. wt.  
**W.8511.** For 200W. or MBT/U 160W. lamp. E.S. hldr.  $16\frac{1}{4}" \times 12"$  dia. 15" ht. 4 lb. app. wt.

1 16 8

2 16 4

All fittings vitreous enamelled white interior, green exterior, except where stated otherwise.

Made in Great Britain



# INDUSTRIAL LIGHTING FITTINGS

FOR TUNGSTEN OR BLENDED LAMPS



**Concentrating "Overlamp" Fitting.** Weatherproof top, tapped  $\frac{3}{4}$ " conduit. Complete with porcelain lampholder. Spacing-Height Ratio 1 : 1.

**W.8532.** For 200W. or MBT/U 160W. lamp. E.S. hldr. 14" dia. 10 $\frac{3}{4}$ " ht. 5 $\frac{1}{2}$  lb. app. wt.

**W.8533.** For 300-500W. or MBT/U. 250W. lamp. G.E.S. hldr. 16" dia. 13 $\frac{1}{2}$ " ht. 6 $\frac{1}{2}$  lb. app. wt.

## Standard Concentrating

**W.8515.\*** For 100-150W. lamp. B.C. hldr. 11" dia. 7 $\frac{3}{4}$ " ht. 2 $\frac{1}{2}$  lb. app. wt.

**W.8516.** For 200W. or MBT/U 160W. lamp. E.S. hldr. 14" dia. 10 $\frac{3}{4}$ " ht. 4 lb. app. wt.

**W.8517.** For 300-500W. or MBT/U 250W. lamp. G.E.S. hldr. 16" dia. 13 $\frac{1}{2}$ " ht. 5 $\frac{1}{2}$  lb. app. wt.



**Parabolic Angle Fitting.** Detachable waterproof canopy top, tapped  $\frac{3}{4}$ " conduit. Complete with porcelain lampholder. Spacing details on request.

**W.8570.** For 100-150W. lamp. B.C. hldr. 11" dia.

**W.8571.** For 200W. lamp. E.S. hldr. 14" dia.

**W.8572.** For 300W. lamp. G.E.S. hldr. 14" dia.

**W.8573.** For 500W. lamp. G.E.S. hldr. 16" dia.



**Large "Overlamp" Diffuser Fitting.** For interior use, with upward light slots. Tapped  $\frac{3}{4}$ " conduit. Complete with opal glass globe and porcelain lampholder. Finish—all white. Spacing-Height Ratio 1 $\frac{1}{4}$  : 1.

**W.8520.** For 100-150W. lamp. B.C. hldr. 18" dia. 11 $\frac{3}{4}$ " ht. 7 $\frac{1}{2}$  lb. app. wt.

**W.8521.** For 200W. or MBT/U 160W. lamp. E.S. hldr. 18" dia. 11 $\frac{3}{4}$ " ht. 7 $\frac{1}{2}$  lb. app. wt.

**W.8522.** For 300-500W. or MBT/U 250W. lamp. G.E.S. hldr. 20" dia. 14" ht. 12 lb. app. wt.



**Local Lighting Unit with 3" backplate (2" fixing centres).** Finish—Aluminium.

**W.8545. "Weymouth"**

For 150W. lamp or 150W. spotlight reflector lamp. E.S. hldr. 6" dia. 12 $\frac{3}{4}$ " ht. 1 $\frac{1}{4}$  lb. app. wt.

**Local Lighting Unit with 6" baseplate to stand.** Complete with louvre. Finish—Aluminium.

**W.8546. "Weymouth"**

For 150W. lamp or 150W. spotlight reflector lamp. E.S. hldr. 6" dia. 13 $\frac{1}{4}$ " ht. 2 $\frac{1}{4}$  lb. app. wt. (Patent No. 658236.)

LIST PRICE  
(excluding  
lamps)

£ s. d.

2 0 8

3 0 4

1 2 0

1 16 0

2 15 8

1 8 8

2 0 8

2 7 0

2 19 8

4 11 0

4 13 8

5 14 8

3 4 8

3 4 8

All fittings vitreous enamelled white interior, green exterior.

\* Note: Suitable also for 250W. Infra-Red Lamp. Please specify E.S. lampholder. List price £1 4s. 8d.

Made in Great Britain



# FLOODLIGHT PROJECTORS

FOR TUNGSTEN LAMPS

## THE "WESTGATE"

### DESCRIPTION

Philips Cat. No. W.8800 "WESTGATE" is a robust and simply installed general purpose wide beam floodlight projector. Beam angle 140° approx.

Body of heavy gauge steel, grey vitreous enamelled exterior and white interior. Heat resisting, clear glass front with wire safety mesh. Complete with porcelain G.E.S. lampholder, adjustable steel stirrup and baseplate with four  $\frac{1}{2}$ " holes at  $6\frac{7}{8}$ " centres.

### LAMPS

Tungsten 500W., 750W. or 1,000W. G.L.S.

Mercury MA/V 250W. or 400W. operated within 10° of the vertical, cap up or down.



## THE "WINCHESTER"

### DESCRIPTION

Philips Cat. No. W.8810 "WINCHESTER" is a heavy duty projector for narrow and medium beam floodlighting. Beam angle is approx. as follows:—

Lamp	Facet Mirror	Smooth Mirror	Beam C.P. at 0° Smooth Mirror
500W. G.L.S.	40°	20°	120,000
500W. or 1,000W. B.I Proj.	30°	15°	320,000 (1,000W.)



Body of heavy gauge galvanised steel. Faceted silver glass reflector as standard, or smooth reflector if required. Heat-resisting clear glass front with wire safety mesh. Complete with porcelain G.E.S. lampholder, interior terminal block and  $\frac{1}{2}$ " dia. cable entry. Externally adjustable focusing. Steel stirrup and baseplate with four  $\frac{1}{2}$ " holes at  $6\frac{7}{8}$ " centres, fully adjustable with locking devices.

**LAMPS** Tungsten 500W. G.L.S. Tungsten 500W. or 1,000W. Class B.I Projector in any operating position excepting within 45° of vertical, cap up.

Cat. No.	Description	For Philips Lamp	Lamp-holder incl.	Ext. Finish	Dimensions			Weight lb.	List Price (Fitting only)
					Depth	Width	Height		
W.8800	"Westgate"	See above	G.E.S.	V.E. grey	11 $\frac{1}{4}$ "	18 $\frac{1}{4}$ "	27 $\frac{1}{4}$ "	23	£ 9 9 0
W.8810	"Winchester"	See above	G.E.S.	Galv.	20 $\frac{1}{2}$ "	20"	23"	30	25 10 0

Made in Holland





# FLOODLIGHT PROJECTORS

FOR TUNGSTEN AND SODIUM LAMPS



**W.8820**  
**"WHITBY"**  
 Floodlight complete with stippled front.  
 List Price  
 £7 15 0 each

## THE "WHITBY"

(Patent Application 30700/50)

### DESCRIPTION

Philips Cat. No. W.8820 "WHITBY" is a lightweight projector for medium and wide beam floodlighting. Adjustable focusing gives a beam angle of 35°-60°. Anodised aluminium body with mirror polished "Alumilite" reflector. Complete with porcelain E.S. holder, cable entry grommet and cadmium plated adjustable steel bracket and baseplate, with four  $\frac{1}{4}$ " holes at 4" centres.

### LAMPS

Tungsten 200W. G.L.S. Clear, Pearl or Argenta.  
 Blended MBT/U 160W.  
 † Mercury MB/V 125W. or "Black" Lamp MBW/V 125W.

### FRONT

Frameless moulded "Perspex" front held by four screws. Available in these finishes and colours:—

W.8823C.	Stippled.	Uncoloured.	Diffuse beam (supplied as standard).
W.8824C.	Reeded.	"	Rectangular beam
W.8825C.	Clear.	Red	(use Pearl or Argenta lamp).
W.8826C.	"	Yellow	" " " " "
W.8827C.	"	Green	" " " " "
W.8828C.	"	Blue	" " " " "

List Price  
 each 50s. 0d.

Note: The W.8823C stippled, is supplied with the floodlight, unless the order states otherwise, and is included in the price shown below for the complete fitting. † Specify 3-slot lampholder, if required, for MB/V 125W. or MBW/V 125W.

## THE "REIGATE"

### DESCRIPTION

Philips Cat. No. R.7670 "REIGATE" is a heavy duty sodium floodlight projector, for wide rectangular beam general purpose floodlighting. Beam angle 40° x 20° approx. Body held in wrought iron frame with welded sheet steel and plates, finished green. Reflector of mirror polished anodised aluminium and armour plate glass front in sliding frame.

Complete with porcelain B.C. holder, cable entry glands and adjustable brackets for clamping to cast iron apparatus box, with wooden block and fuses. Sodium lamp apparatus is not included and must be ordered additionally. Please state voltage. Pole clamps can be supplied if required. Please state pole diameter.

LAMPS Sodium SO/H 140W.



Cat. No.	Description	For Philips Lamp	Lamp-holder incl.	Ext. Finish	Dimensions			Weight lb.	List Price (Fitting only)
					Depth	Width	Height		
W.8820	"Whitby"	See above	E.S.	A.L.	13"	15"	18"	4½	£ 7 15 0
R.7670	"Reigate"	SO/H 140W.	B.C.	Green	13"	29"	21½"	60	23 19 4

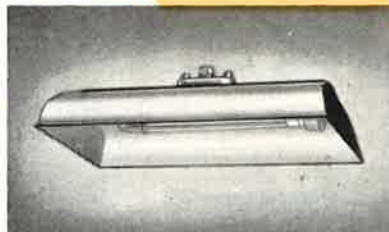
Made in Great Britain



# INDUSTRIAL LIGHTING FITTINGS

## FOR SODIUM AND MERCURY LAMPS

### FOR SODIUM LAMPS



#### DESCRIPTION

##### Sodium Industrial Fitting.

Weatherproof top, tapped  $\frac{3}{4}$ " conduit. Complete with porcelain lampholder. Exterior finish—Grey. Spacing-Height Ratio at right angles to lamp 2 : 1. Parallel to lamp  $1\frac{1}{2}$  : 1.

- R.7500. "Redhill."** For SO/H 45/60W. lamp. B.C. hldr.  $17\frac{1}{2}$ "  $\times$   $8\frac{1}{2}$ " dia. 5" ht.  $5\frac{1}{2}$  lb. app. wt.  
**R.7550.\* "Redhill."** For SO/H 85W. lamp. B.C. hldr. 22"  $\times$   $13\frac{3}{4}$ " dia. 6" ht.  $10\frac{1}{4}$  lb. app. wt.  
**R.7590. "Redhill."** For SO/H 140W. lamp. B.C. hldr. 27"  $\times$   $16\frac{1}{2}$ " dia. 7" ht. 15 lb. app. wt.

LIST PRICE  
(excluding  
lamps)

£ s. d.

4 0 4

4 12 8

5 16 4

"Perspex" clear front covers to convert Cat. Nos. R.7500, R.7550, R.7590 into upward light reflectors for exterior use. With 4 cad. plated screws. (Licensed under Brit. Pat. App. No. 30700/50.)

- R.7501c.** For SO/H 45/60W. lamp. B.C. hldr.  $18\frac{1}{2}$ "  $\times$   $8\frac{7}{8}$ " dia.  $1\frac{1}{4}$  lb. app. wt.  
**R.7551c.** For SO/H 85W. lamp. B.C. hldr.  $23\frac{1}{2}$ "  $\times$   $13\frac{3}{4}$ " dia.  $1\frac{3}{4}$  lb. app. wt.  
**R.7591c.** For SO/H 140W. lamp. B.C. hldr.  $27\frac{1}{2}$ "  $\times$   $16\frac{3}{8}$ " dia.  $3\frac{3}{4}$  lb. app. wt.

2 10 0

3 10 0

4 15 0

"Perspex"  
fronts only

### FOR MERCURY LAMPS



##### Dispersive "Overlamp" Fitting.

For interior use only. Tapped  $\frac{3}{4}$ " conduit. Complete with porcelain lampholder. Spacing-Height Ratio  $1\frac{1}{2}$  : 1.

- R.7703. "Rochester."** For MB/V 80W. lamp. 3-pin B.C. hldr. 14" dia. 11" ht.  $3\frac{1}{2}$  lb. app. wt.  
**R.7704. "Rochester."** For MBF/V 125W. lamp. 3-pin B.C. hldr. 16" dia.  $11\frac{1}{2}$ " ht.  $4\frac{1}{2}$  lb. app. wt.  
**R.7707. "Rutland."** For MBF/V 80W. lamp. 3-pin B.C. hldr. 18" dia.  $14\frac{3}{8}$ " ht. 7 lb. app. wt.  
**R.7709. "Rutland."** For MBF/V 125W. lamp. G.E.S. hldr. 18" dia.  $14\frac{3}{8}$ " ht. 7 lb. app. wt.

2 1 0

2 5 8

3 6 0

3 9 8

##### Dispersive "Overlamp" Fitting.

For interior use only. Special cool-wiring top tapped  $\frac{3}{4}$ " conduit. Complete with porcelain lampholder. Spacing-Height Ratio  $1\frac{1}{2}$  : 1.

- R.7700. "Richmond."** For MA/V 250W. lamp. G.E.S. hldr. 16" dia. 18" ht. 9 lb. app. wt.  
**R.7701. "Richmond."** For MA/V 400W. lamp. G.E.S. hldr. 18" dia.  $19\frac{1}{2}$ " ht.  $12\frac{3}{4}$  lb. app. wt.  
**R.7702. "Richmond."** For MA/V 400W. lamp. G.E.S. hldr. 18" dia.  $19\frac{1}{2}$ " ht. 13 lb. app. wt.

3 12 4

4 7 8

4 7 8

### FOR TUNGSTEN/MERCURY LAMPS (TWO LAMPS)



##### Dispersive "Overlamp" Blended Light Fitting.

For interior use only. Special cool-wiring top tapped  $\frac{3}{4}$ " conduit. Complete with two porcelain lampholders. Spacing-Height Ratio  $1\frac{1}{2}$  : 1.

- R.8000. "Radley."** For 200W. and MB/V 80W. lamps. E.S., 3-pin B.C. hldrs. 17" dia.  $19\frac{1}{2}$ " ht.  $8\frac{1}{2}$  lb. app. wt.  
**R.8001. "Radley."** For 300W. and MB/V 125W. lamps. G.E.S., 3-pin B.C. hldrs. 17" dia.  $19\frac{1}{2}$ " ht. 9 lb. app. wt.  
**R.8002. "Radley."** For 500W. and MA/V 250W. lamps. Two G.E.S. hldrs. 18" dia. 21" ht.  $10\frac{1}{2}$  lb. app. wt.

5 16 0

5 18 8

6 0 0

All Fittings Vitreous Enamelled White Interior and Green Exterior, except where otherwise stated.

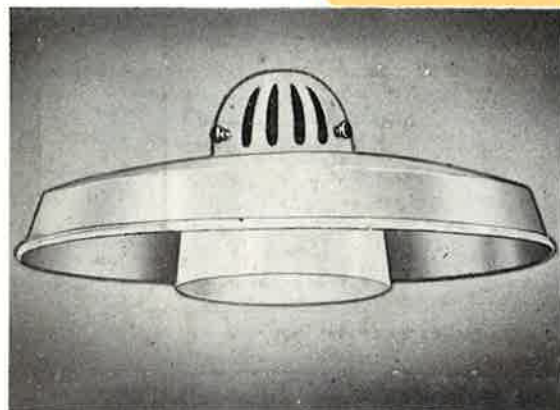
\* Note : This fitting can be modified to take a 400W. Mercury Lamp for horticultural applications in greenhouses, etc. Details on request.

Made in Great Britain



# COMMERCIAL LIGHTING FITTINGS

FOR TUNGSTEN OR BLENDED LAMPS



## Junior Diffuser Reflector.

For interior use.  $1\frac{1}{8}$ " hole type. Complete with opal glass shade. Lampholder not included. Finish—All White. Spacing-Height Ratio  $1\frac{1}{2} : 1$ .

**W.8523.** For 40-60W. lamp. 10" dia. 5" ht.  $1\frac{1}{4}$  lb. app. wt. P.T.

LIST PRICE  
(excluding lamps)

1 4 0  
6 0  
1 10 0

**W.8524.** For 75-100W. lamp. 12" dia.  $5\frac{3}{4}$ " ht. 2 lb. app. wt. P.T.

1 8 8  
7 2  
1 15 10

**W.8525.** For 150W. lamp. 14" dia.  $6\frac{1}{2}$ " ht.  $2\frac{1}{2}$  lb. app. wt. P.T.

1 16 4  
9 1  
2 5 5



## "Westbury" Semi-Indirect Pendant Fitting.

Finish—Cream Stove Enamel bowl and suspension tube. Other exterior metal parts finished in polished aluminium.

**W.8548.** For 300W. Pearl or MBT/U 250W. lamp.

G.E.S. holder. 21" dia. 34" ht.  $4\frac{3}{4}$  lb. app. wt.

8 10 0

P.T.

2 2 6

10 12 6

"Crinothene" and "Perspex" are Registered Trade Marks of Imperial Chemical Industries Ltd.

Made in Great Britain





# LIGHTING FITTINGS ACCESSORIES

**PURCHASE TAX** does not apply to these suspensions and accessories.

## APPARATUS BOXES

Each apparatus box accommodates one ballast and one capacitor of the types listed on page 39, and is equipped with a wooden baseboard and a pair of fuses. Entries  $\frac{3}{4}$ " conduit.

Cat. No.	Description	Inside Dimensions	List Price Each	Std. Pkge. Quantity
R.8410	Sheet Steel Box for Interior Use ... ..	L. W. D. $14\frac{3}{4}" \times 6\frac{1}{4}" \times 6\frac{3}{4}"$	£ s. d. 2 2 4	1
R.8411	Sheet Steel Box for Exterior Use ... ..	$16" \times 5\frac{1}{4}" \times 7\frac{1}{4}"$	4 8 0	"

## SUSPENSIONS AND ACCESSORIES FOR FLUORESCENT LIGHTING FITTINGS

### SUSPENSION SETS

Cat. No.	Type	For Fitting	List Price Each	Std. Pkge. Quantity
A.7270	CHAIN SET	A.6145, A.6155, A.6157, A.6160, A.6190, A.6192, A.6195, A.6400, A.6405	s. d. 9 8	4
A.7271	TUBE SET	As for A.7270 and A.7300	13 0	"
A.7300	CHAIN SET	A.6000, A.6003, A.6004, A.6005, A.6010, A.6033, A.6034, A.6060, A.6064	9 8	1

### ACCESSORIES

Cat. No.	Type	List Price
A.6301C	Hanging Loops ... ..	s. d. 9 3 per dozen
A.7205	Bi-pin Fluorescent Lampholder, black (2 per lamp) ... ..	2 10 each
A.7210	Four Contact Starterholder ... ..	4 0 "
A.7350C	Hook Backplate ... ..	3 3 "
A.7355C	Jack Chain, 36" length ... ..	2 0 "
A.7360C	"S" Hooks ... ..	2 4 per dozen
A.7370C	Ball-socket Backplate ... ..	3 0 each
A.7371C	$\frac{3}{8}$ " Hexagonal Locknuts ... ..	5 6 per dozen
A.7372C	$\frac{3}{8}$ " Tube, cadmium plated, 29" length ... ..	5 4 each
A.7402C	$\frac{3}{8}$ " Male Conduit Hooks ... ..	33 0 per dozen
A.7202	Single Contact Lampholder for MCFB/U Lamp ... ..	3 6 each
A.7204	Base for A.7202 ... ..	1 6 "
*R.8309	3-Slot Batten-holder for Tungsten Ballast Lamp ... ..	3 6 "

*Suspension Sets for Philips Instant-Self-Start Fluorescent Fittings, please see Page 45.*

## ACCESSORIES FOR TUNGSTEN LIGHTING FITTINGS

### DUSTPROOF COVERS

Cat. No.	For Fittings Diameter	List Price Each	Std. Pkge. Quantity
W.8701	10"	£ s. d. 1 7 4	1
W.8702	12"	1 9 8	"
W.8703	14"	1 15 4	"
W.8704	16"	2 2 0	"
W.8705	18"	2 14 4	"

*Please state the Cat. No. of the Fitting for which the dustproof cover is required.*

### WIRE GUARDS

Cat. No.	For Fittings Diameter	List Price Each	Std. Pkge. Quantity
W.8711	10"	s. d. 8 0	1
W.8712	12"	8 4	"
W.8713	14"	9 4	"
W.8714	16"	11 4	"
W.8715	18"	12 0	"

*Please state the Cat. No. of the Fitting for which the wire guard is required.*

### OPAL GLASS BOWLS (SPARES)

Cat. No.	For Fitting Cat. No.	Price Each (Add P.T.)	Purchase Tax Extra	Total Price Each	Std. Pkge. Quantity
W.8550	W.8520	£ s. d. 1 4 0	s. d. 6 0	£ s. d. 1 10 0	1
W.8551	W.8521	1 8 8	7 2	1 15 10	"
W.8552	W.8522	1 16 0	9 0	2 5 0	"
W.8553	W.8523	8 4	2 1	10 5	"
W.8554	W.8524	8 4	2 1	10 5	"
W.8555	W.8525	13 0	3 3	16 3	"

† Lampholders for Philips 250W. Infra-Red lamps.

\* Lampholders for "I.S.S." illustrated on page 31.

### MISCELLANEOUS

Cat. No.	Description	List Price
W.9300C	$\frac{3}{8}$ " Male Conduit Hooks ... ..	£ s. d. 1 3 0
†W.9316	E.S. Porcelain Skirted Lampholder, with swivel loop ... ..	each 6 0



# PHILIPS LIGHTING



Floodlighting London's "Monument" with Philips W.8810 "Winchester" Floodlight Projectors and Philips 500W and 1,000W Projector Lamps.



Sodium Lighting at Wokingham, Berks, with Philips Sodium Lamps SO/H 140W. in ELECO "Golden Ray" Refractor Lanterns.



Fluorescent Lighting at Bus Station, Guildford, Surrey, with Philips Fluorescent Lamps MCF/U 80W. 5ft. in Revo "SOLETERN" Street Lighting Lanterns.



Mercury Lighting at Eastern Avenue, Wanstead, Essex, with Philips MA/V 400W. Mercury Lamps operating horizontally in ELECO "Lancaster" Refractor Lanterns.



# INSTALLATIONS



Odsal Stadium, Bradford, lit by Philips flood-lights and Philips projector lamps for the Rugby League game between Bradford Northern and the touring New Zealand side, 31st October, 1951. The outer perimeter is lit by the existing speedway installation.



Vitreous Enamel Stoving Shop lighting with Philips Fluorescent Lamps MCF/U 80W. 5 ft. in A.6000 "Andover" Reflector Fittings.



Steel tube shop lighting with Philips Sodium Lamps SO/H and R.7590 "Redhill" fittings.



Engineering Lofting Room with Philips Blended Light Installation: Philips Mercury Lamps MA/V 250W. and 500W. Tungsten Lamps in R.8002 "Radley" Dispersive Fittings. Also Philips Fluorescent Lighting on the galleries.





Philips Electrical Ltd. maintain experienced Illuminating Engineers throughout the country, to advise upon all lighting problems. This Philips Lighting Service is at your disposal, without obligation.

## PHILIPS LIGHTING PUBLICATIONS

*Copies will be sent free on request.*

- A.161. Sodium Lighting. Floodlight and Industrial Fittings.
- A.162. Fluorescent Lighting. Industrial Fittings for 80W. 5 ft. lamps.
- A.163. Fluorescent Lighting. Industrial Fittings for 40 W. 4 ft. lamps.
- A.166. Mercury Lighting. " Overlamp " Industrial Fittings.
- A.167. Fluorescent Lighting. Fittings Broadsheet.
- A.168. Blended Lamps.
- A.169. Instant-Self-Start Fluorescent Lighting.
- A.170. Tungsten and Discharge Lighting. Fittings Broadsheet.
- A.171. Special Lamps Catalogue.
- A.172. Lamps and Lighting Equipment. *(This publication.)*
- A.173. General Lamp Broadsheet.
- A.174. Floodlight Projectors.
- A.175. Motor Car Lamps Broadsheet.

Also other Publications describing Philips Infra-Red Lamps,  
" Photoflux " Flashbulbs, etc.



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RECTIFIERS . SOUND AMPLIFYING INSTALLATIONS . CINEMA  
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SEPTEMBER 1952