



LAMPS & LIGHTING EQUIPMENT

SEPTEMBER 1953

PHILIPS ELECTRICAL LTD

HEAD OFFICE AND SHOWROOMS

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

TELEPHONE
GERard 7777
(45 lines)

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

TELEGRAMS
"PHILLAMPS"
PHONE LONDON

BRANCHES AND SALES DEPOTS

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BELFAST	28A, Alfred Street	Belfast	22047	Phillamps Phone Belfast
BIRMINGHAM	28, Ludgate Hill	Central	7201	Phillamps
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CARDIFF	11/13, Penarth Road	Cardiff	24854	Phillamps Cardiff
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LONDON, W.C.2	24, Great Queen Street Trade Counter 34, Parker Street	Chancery	2251	Phillamps Phone London
MANCHESTER 1	40, Little Lever Street	Central	7766	Phillamps Manchester
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SWANSEA	20-21, Orchard Street	Swansea	4312	As Postal

Central Stores & Traffic Dept. :—

No. 2 BUILDING, WADDON FACTORY ESTATE, CROYDON, SURREY.

Main Lamp Factory :—

HAMILTON, LANARK. Other Factorles, BALHAM, BRIXTON, MITCHAM, ETC.

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

This Edition cancels those prior to Sept. 1st., 1953.



PHILIPS LAMPS & LIGHTING EQUIPMENT

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PHILIPS network of Branches & Depots

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, 1953

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 reserves 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.	18½%
Group 2	All lamps.	16½%
Group 4	All lamps.	16½%
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.	18½%
Group 6	All lamps.	18½%
Group 9	Fluorescent Tubular Lamps only up to and including 80w.	18½%
Group 10	All lamps.	16½%

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:—		Add to List Price	Where List Price:—		Add to List Price	Where List Price:—		Add to List Price
is over	does not exceed		is over	does not exceed		is over	does not exceed	
s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
1 1	1 2	2½	4 8	4 11	10½	12 8	12 11	2 4
1 2	1 5	3	4 11	5 2	11	12 11	13 5	2 5
1 5	1 8	3½	5 2	5 5	11½	13 5	13 11	2 6
1 8	1 11	4	5 5	5 8	1 0	13 11	14 8	2 7
1 11	2 2	4½	5 8	6 2	1 1	14 8	14 11	2 8
2 2	2 5	5	6 2	6 11	1 2	14 11	15 5	2 9
2 5	2 8	5½	6 11	7 5	1 4	15 5	16 5	2 11
2 8	2 11	6	7 5	8 5	1 5	16 5	17 5	3 1
2 11	3 2	6½	8 5	9 5	1 7	17 5	18 5	3 3
3 2	3 5	7	9 5	10 5	1 10	18 5	19 8	3 5
3 5	3 8	8	10 5	10 8	1 11	19 8	21 0	3 10
3 8	3 11	8½	10 8	11 2	2 0	21 0	23 0	4 1
3 11	4 2	9	11 2	11 8	2 1	23 0	26 0	4 7
4 2	4 4	9½	11 8	12 2	2 2	26 0	29 0	5 0
4 4	4 8	10	12 2	12 8	2 3	29 0	32 0	5 6
						32 0	35 0	6 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	7	1	2 8	3 2	6	5 8	6 2	1 0
7	9	1½	3 2	3 8	7	6 2	6 8	1 1
9	1 2	2	3 8	4 2	8	6 8	7 2	1 2
1 2	1 7	3	4 2	4 8	9	7 2	7 8	1 3
1 7	2 2	4	4 8	5 2	10	—	—	—
2 2	2 8	5	5 2	5 8	11	—	—	—



CLEAR, PEARL & WHITE LAMPS

GASFILLED AND VACUUM

Group 1

CLEAR—SINGLE COIL							
Watts	Nom. Initial Lumens at 230v.	Approximate Dimensions mm.		Cap	Standard Voltages List Price Each		
		Dia.	Length		25, 35, 50, 55, 60, 65, 75	100, 110, 120, 130,	200, 210, 220, 230, 240, 250, 260
15	120	55	92.5	B.C. (B22/25 × 26)	s. d.	s. d.	s. d.
25	220	60	100		1 11	1 5	1 5
40	355	60	110		1 11	1 5	1 5
60	620	60	110		2 3	1 5	1 3
75	840	70	125		2 3	1 5	1 3
100	1240	75	137.5	E.S. (E27/25)	—	1 10	1 8
150	2150	80	160		4 0	1 11	1 9
200	2960	90	178		6 0	2 8	2 6
300	4830	110	233		9 0	4 3	3 9
500	8660	130	267		12 0	8 0	7 6
750	13900	150	300	G.E.S. (E40/45)	16 0	10 6	10 0
1000	19400	150	300		—	16 0	16 0
1500	31000	170	335		—	17 6	17 6
					—	25 0	25 0
CLEAR—DOUBLE COIL							
40	430	60	110	B.C. (B22/25 × 26)	—	—	1 7
60	725	60	110		—	—	1 7
75	960	70	125		—	—	1 10
100	1380	75	137.5		—	—	2 0
PEARL—SINGLE COIL							
Watts	Nom. Initial Lumens at 230v.	Approximate Dimensions mm.		Cap	Standard Voltages List Price Each		
		Dia.	Length		25, 35, 50, 55, 60, 65, 75	100, 110, 120, 130,	200, 210, 220, 230, 240, 250, 260
15	120	55	92.5	B.C. (B22/25 × 26)	s. d.	s. d.	s. d.
25	220	60	100		1 11	1 5	1 5
40	355	60	110		1 11	1 5	1 5
60	620	60	110		2 3	1 5	1 3
75	840	70	125		2 3	1 5	1 3
100	1240	75	137.5	E.S. (E27/25)	—	1 10	1 8
150	—	80	160		4 0	1 11	1 9
200	—	90	178		—	2 8	2 6
					—	4 9	4 3
PEARL—DOUBLE COIL							
40	430	60	110	B.C. (B22/25 × 26)	—	—	1 7
60	725	60	110		—	—	1 7
75	960	70	125		—	—	1 10
100	1380	75	137.5		—	—	2 0
WHITE—SINGLE COIL							
Watts	Nom. Initial Lumens at 230v.	Approximate Dimensions mm.		Cap	Standard Voltages List Price Each		
		Dia.	Length		200, 210, 220, 230, 240, 250, 260,		
40	—	60	110	B.C. (B22/25 × 26)	—	—	1 6
60	—	60	110		—	—	1 6
100	—	75	137.5		—	—	2 0



300w.
Clear
Lamp



150w.
Pearl
Lamp



60w. White
Single Coil
Lamp

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 clear lamps up to and including 200 watt, and all Pearl and White lamps 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 mm.		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	60	110		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.			100, 110, 120, 130, 200, 210, 220, 230, 240, 250, 260
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.			110, 120, 210, 220, 230, 240, 250
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.			100, 110, 120, 130
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
GASFILLED, WITH FUSIBLE CUT-OUT							
Watts		Cap			Finish	Standard Voltages. List Price Each	
						40, 50	
40 or 60		E.S. (E27/25)			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

TROLLEY BUS LAMPS

Group 1

Type	Watts	Approximate Dia. mm.	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. (B22/22)	} Clear or Pearl	2 6
Interior	15	38 or 50	B.C. (B22/21 × 26)		2 9
Interior	20	38	B.C. (B22/21 × 26)		3 0
Headlamp	36	38	S.B.C. (B15d/17)	Clear	4 0

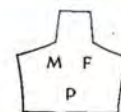


BUS INTERIOR LAMPS

Group 2

PEARL						
Volts	Watts	Cap	Approximate Dimensions mm.		Filament	List Price Each
			Dia.	Length		
12	12	B.C. (B22/21 × 26)	38	55	"V"	s. d. 2 4
24	12	or	or	or	or	2 6
24	20	S.B.C. (B15d/17)	50	68	Bow	2 9

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



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

MINERS' LAMPS

Group 5

KRYPTON								
Volts	Amps	Cap	Approximate Dimensions		Finish	For use in:—	M.O.F. & P. Category	List Price Each
			Dia. mm.	Length mm.				
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 miners' lamps on this page are M.O.F. & P. approved types, and therefore are not subject to Purchase Tax.

Made in Great Britain



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. 3 5	s. d. 21 7

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. mm.	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. 2 ½

Made in Great Britain



COLOURED LAMPS

GASFILLED AND VACUUM Group I

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

OUTSIDE SPRAYED—SINGLE COIL						
Watts	Approximate Dimensions, mm.		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 × 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	60	110		1 8	1 6	
75	70	125		1 8	1 6	
100	75	137.5		2 1	1 11	
				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

Watts	Approximate Dimensions, mm.		Cap	Finish	Standard Voltages List Price Each		Colours
	Dia.	Length			25, 50, 60, 65, 75	100, 110, 130, 200, 210, 220, 230, 240, 250, 260	
15	28	56	B.C. (22/22)	Clear Outside Sprayed Outside Enamelled	s. d.	s. d.	— Red, Blue, Green, Flame, Orange, Yellow, Pink, Amber, White. Red, Blue, Green, Orange, Yellow, White.
		58	E.S. (E27/25)		2 5	1 10	
		62	S.B.C. (B15/24 × 18)		2 7	2 0	
		64	S.E.S. (E14/27 × 18)		—	2 1	
					110	200, 210, 220, 230, 240, 250, 260	
15	44	90	B.C. (B22/25 × 26) or E.S. (E27/25)	Outside Enamelled or Internally Coloured	s. d.	s. d.	Red, Blue, Green, Orange, Yellow, White.
					2 1	1 10	



SWITCHBOARD INDICATOR LAMPS

100/130 or 200/260

Not specified	28	56	B.C. (B22/22)	Clear Sprayed	s. d. 2 6 2 8
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Made in Great Britain

PURCHASE TAX

The lamps listed on this page, up to and including 200w., 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.



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.

Watts	Approximate Dimensions mm.		Cap	Filament	Standard Voltages, List Price Each
	Dia.	Length			
150	126	176	E.S. (E27/54 × 38)	Grid	110, 210, 230, 240, 250 s. d. 18 6
				Ring	15 6
					110, 200, 210, 220, 230, 240, 250.
75	95	129	B.C. (B22/25 × 26) or E.S. (E27/25)	Vee	8 0



PURCHASE TAX: These lamps are SUBJECT TO PURCHASE TAX—see Page 5.

CANDLE LAMPS

VACUUM & GASFILLED

Watts	Approx. Dia. mm.	Cap	Standard Voltages and List Price Each			
			25, 50, 60, 65, 75		100, 110, 120, 130, 200, 210, 220, 230, 240, 250, 260	
			Clear	Outside Colour Sprayed	Clear	Outside Colour Sprayed
PLAIN CANDLES						
25	39	B.C. (B22/25×26) or S.B.C. (B15/26×22) or S.E.S. (E14/27×18) or E.S. (E27/25)	s. d. 4 9	s. d. 4 11	s. d. 3 9	s. d. 3 11
40	47		5 3	5 6	4 3	4 6
60	47		5 9	6 0	4 9	5 0
TWISTED CANDLES						
25	39	As Above	5 3	5 5	4 3	4 5
40	57		6 0	6 3	5 0	5 3
60	57		6 6	6 9	5 6	5 9
GOTHIC CANDLES						
25	54	As Above	—	—	—	4 5
40	54		—	—	—	5 3
60	54		—	—	—	5 9

These lamps are available sprayed ivory or pink.

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 x 18) S.E.S. (E14/27 x 18)	Clear	s. d. 4 9	s. d. 3 9
40 60	38 38	302 302	B.C. (B22/25 x 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. mm.	Length				110, 120, 200, 210, 220, 230, 240, 250, 260	
		mm.	ins.				
30	25	221	8 $\frac{3}{4}$	Centre Contact (S15s)	Clear	s. d. 5 9	
30	25	284	11 $\frac{3}{16}$			5 9	
60	25	284	11 $\frac{3}{16}$			6 0	

ARCHITECTURAL—STRAIGHT

Watts	Approximate Dimensions			Caps	Finish	Standard Voltages. List Price Each			
	Dia. mm.	Length				100, 110, 120, 130		200, 210, 220, 230, 240, 250, 260	
		mm.	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

STRIPLITE LAMPS

Extra for frosting or spraying in standard colours 4d. each.

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

ARCHITECTURAL LAMPS

Extra for spraying Architectural lamps in standard colours ... 10%.

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.5001) is for use on A.C. or D.C. mains between 110V. and 500V. This indicator is a black "Phlite" 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. Q.5005) is suitable for A.C. mains 80V. to 750V., and D.C. mains 100V. to 750V. It has two moulded "Phlite" 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.

The Philips H.T. Voltage Indicator 2,000/15,000V. (Cat. No. Q.5010) comprises a high tension indicator housed in a tubular insulating holder, complete with cover. The indicator itself consists of a glass tube filled with Neon gas, the "pipped" end of which should be inserted in the holder so that the rounded end is in contact with the spring loaded contact hook. The holder, Q.5010, is provided with an earth screw fixed in a cylindrical metal cover holding the insulating tube. It should be noted that this cover is capacitatively, not physically, connected to one electrode of the tube.

The instrument is provided with a cover, used both as an insulating handle and as protection for the tube during handling and transit. The overall dimensions are thereby reduced.

Operation. The voltages mentioned on this page are applicable to 40, 50 and 60 cycle supplies only. To test H.T. lines or equipment, the cover should be slid over the rounded end and Screw B tightened. Screw A must be connected to earth to conform with regulations and the contact made either by contact with the bus-bars or by hooking over the line to be tested.

General. The neon tube will glow when the voltage exceeds 1,500. The brightness, however, is low and may not be easily visible if the surrounding illumination is high as in daylight. If the H.T. voltage is increased, the brightness of the neon glow will also increase to a given level, after which it remains constant and is independent of the applied voltage. Min. operating voltage 2,000V. Max. operating voltage 15,000V. Further operating instructions are available on request. Replacement Neon tubes Q.5012 are available.

Cat. No. Q.5005
Neon Voltage and Polarity
Indicator
Made in Holland

Cat. No. Q.5001
Pencil Type Voltage
Indicator
Made in Gt. Britain

Cat. No. Q.5010
H.T. Voltage Indicator
Made in Gt. Britain

Cat. No.	Description	List Price Each
Q.5001	Pencil Type Voltage Indicator	£ s. d. 5 0
Q.5005	Neon Voltage and Polarity Indicator	1 10 0
Q.5010	H.T. Voltage Indicator 2000/15000 Volts	10 0 0

NEON INDICATOR LAMPS, Q.5012 & 4017				
Volts	Approximate Dimensions mm.		Type	List Price Each £ s. d.
	Dia.	Length		
2,000/15,000V.	18	260	Q.5012	1 10 0
110/750V.	20	79	4017	8 9

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



NEON LAMPS

Group I

NIGHT LIGHT				
Watts	Approximate Dimensions mm.		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 mm.		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. (B22/22)	—	Plain Neon 4 0
	28	58	E.S. (E27/25)		
	18	54	S.B.C. (B15/24 × 17)		Colour Glow Green or Amber 6 0
	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 mm.		Cap	Standard Voltages. List Price Each
	Dia.	Length		200/260
On D.C. 4-6	28	98	B.C. (B22)	s. d.
On A.C. 6-8		100	or E.S. (E27)	7 6

ORDERING

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

CRUCIA LAMPS can be supplied to burn cap upwards.

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							
Lamp No.	Volts	Watts	Approximate Dimensions mm.		Cap	Filament	List Price Each
			Dia.	Length			
109	6	24	38	56	S.B.C. (B15D/17)	Axial S.C.	s. d.
106	6	24	38	56	S.C.C. (B15s/17)	Axial S.C.	2 7
605	6	24	38	61	3-pin B.C. (BA21s)	Axial S.C.	2 6
111	6	36	38	56	S.B.C. (B15D/17)	Axial S.C.	2 9
108	6	36	38	56	S.C.C. (B15s/17)	Axial S.C.	2 10
608	6	36	38	56	S.C.C. (B15s/17)	Axial S.C.	2 9
75	6	36	38	56	S.C.C. (B15s/17)	Transverse S.C.	3 0
607	6	36	38	61	3-pin B.C. (BA21s)	Transverse S.C.	2 9
130	6	36	38	67	Bosch S.C. (BA20s)	Axial S.C.	3 3
1	12	24	38	56	S.C.C. (B15s/17)	Axial S.C.	3 0
5	12	36	38	56	S.B.C. (B15d/17)	Axial S.C.	2 6
2	12	36	38	56	S.C.C. (B15s/17)	Axial S.C.	2 7
57	12	36	38	56	S.C.C. (B15s/17)	Axial S.C.	2 6
612	12	36	38	61	3-pin B.C. (BA21s)	Transverse S.C.	2 6
615	12	36	38	56	S.C.C. (B15s/17)	Axial S.C.	2 9
						or C.C.	3 0
27	12	48	38	56	S.B.C. (B15D/17)	Axial S.C.	4 1
23	12	48	38	56	S.C.C. (B15s/17)	Axial S.C.	4 0
96	12	48	38	67	Bosch S.C. (B20s)	Axial S.C.	4 3
616	12	48	38	61	3-pin B.C. (BA21s)	Axial S.C.	4 3
26	12	60	50	63	S.B.C. (B15d/17)	Axial S.C.	5 7
90	12	60	50	63	S.C.C. (B15s/17)	Axial S.C.	5 6
618	12	60	38	61	3-pin B.C. (BA21s)	Axial S.C.	5 9
87	12	60	50	74	Bosch S.C. (BA20s)	Axial S.C.	5 9
619	12	60	28	65	P.15s	Transverse S.C.	6 0
123	24	36	38	56	S.B.C. (B15d/17)	Axial C.C.	2 8
621	24	36	38	56	S.C.C. (B15s/17)	Axial C.C.	2 8
622	24	36	38	56	B.C. (B22/22)	Axial C.C.	2 8
140	24	48	38	56	S.B.C. (B15d/17)	Axial C.C.	4 3
623	24	48	38	56	S.C.C. (B15s/17)	Axial C.C.	4 3
624	24	48	38	56	B.C. (B22/22)	Axial C.C.	4 3
128	24	60	50	63	S.B.C. (B15d/17)	Axial C.C.	5 9
124	24	60	50	63	S.C.C. (B15s/17)	Axial C.C.	5 9
127	24	60	50	63	B.C. (B22/22)	Axial C.C.	5 9
131	24	60	50	74	Bosch (B20d) D.C.	Axial C.C.	6 3
HEADLAMPS—DOUBLE FILAMENT							
180	6	18/18	38	56	S.B.C. (B15d/17)	—	4 6
168	6	24/24	38	56	S.B.C. (B15d/17)	—	3 6
183	6	24/24	38	67	Bosch D.C. (BA20d)	—	3 9
169	6	30/30	38	56	S.B.C. (B15d/17)	—	3 6
627	6	30/30	38	59	S.B.C. (B15d/17)	—	3 6
628	6	30/30	38	61	3-pin B.C. (BA21d)	—	3 9
629	6	30/30	38	58	Am. Pref. D.C. (P15d/19)	—	4 0
171	12	36/36	38	56	S.B.C. (B15d/17)	—	3 6
633	12	36/36	38	59	A.S.B.C. (BA15d/19)	—	3 6
630	12	36/36	38	61	3-pin B.C. (BA21d)	—	3 9
632	12	36/36	38	58	Am. Pref. D.C. (P15d/19)	—	4 0
182	12	36/36	38	67	Bosch D.C. (BA20d)	—	3 9
194	24	36/36	38	56	S.B.C. (B15d/17)	C.C.	5 0
PREFOCUS HEADLAMPS—SINGLE FILAMENT							
172	6	36	28	62	Single	Axial S.C.	3 9
173	6	36	28	62	Single	Transverse S.C.	3 9
162	12	36	28	62	Single	Axial S.C. or C.C.	3 9
177	12	36	28	62	Double	Axial S.C. or C.C.	3 9
325	12 (a)	38	28	62	Single	Transverse S.C.	3 9
326	12 (a)	38	28	62	Double	Transverse S.C.	3 9
323	12	48	28	62	Single	Transverse S.C. or C.C.	4 9
185	12	48	28	62	Single	Axial S.C. or C.C.	4 9
330	24 (a)	44	28	62	Double	Transverse C.C.	5 0
331	24 (a)	44	28	62	Double	Axial C.C.	5 6
PREFOCUS HEADLAMPS—DOUBLE FILAMENT							
311	6	18/18	28	62	Double	Vertical Dip S.C.	5 3
166	6	24/24	28	62	Double	Vertical Dip S.C.	4 9
312	6	30/24	28	62	Double	Vertical Dip S.C.	5 6
356	6.4	45/35	28	62	Double	Left Dip S.C.	5 9
354	12	42/36	28	62	Double	Left Dip S.C.	5 0
355	12	42/36	28	62	Double	Right Dip S.C.	5 0
358	12 (a)	44/38	28	62	Double	Left Dip S.C.	6 3
302	12 (b)	48/48	28	62	Double	Left Dip S.C. or C.C.	6 9
359	24 (a)	44/38	28	62	Double	Left Dip C.C.	7 0

(a) For commercial vehicles only. (b) Both filaments are offset.
 Prefocus caps: Single Contact P22s/21; Double Contact P22d/21. Left dip—right hand drive; Right dip—left hand drive.
 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.

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

Made in Great Britain



MOTOR CAR LAMPS

GASFILLED AND VACUUM Group 2

GASFILLED SIDE AND TAIL LAMPS

Standard Bulb=Clear Round. Standard Filament=Bow.

Lamp No.	Volts	Watts	Approximate Dimensions mm.		Cap	List Price Each
			Dia.	Length		
204	6	3	18	32.5	S.B.C. (B15D/17)	s. d. 1 5
200	6	3	18	32.5	S.C.C. (B15s/17)	1 4
988	6	3	15	28	M.C.C. (B9s/14)	1 6
206	6	6	18	32.5	S.B.C. (B15d/17)	1 8
205	6	6	18	32.5	S.C.C. (B15s/17)	1 7
222	12	4	15	28	M.C.C. (B9s/14)	1 7
207	12	6	18	32.5	S.C.C. (B15s/17)	1 4
209	12	6	18	32.5	S.B.C. (B15d/17)	1 5
150	24	6	18	32.5	S.B.C. (B15d/17) (a)	1 6
149	24	6	18	32.5	S.C.C. (B9s/14) (a)	1 6

(a)—Also with "V" Filament. Except for 6V. 3W. and 12V. 6W. the above lamps may be supplied in Vacuum.

STOP LAMPS—SINGLE FILAMENT

Standard Filament = Transverse

Lamp No.	Volts	Watts	Dia.	Length	Cap	List Price Each
317	6	18	25	49	A.S.C.C. (BA15s/19)	s. d. 3 9
221	12	18	25	49	A.S.C.C. (BA15s/19)	3 6

STOP LAMPS—DOUBLE FILAMENT

Standard Filament = Double Transverse.

Lamp No.	Volts	Watts	Dia.	Length	Cap	List Price Each
190	6	3/18	25	45.5	S.B.C. (B15d/17) (b)	s. d. 3 6
352	6	3/18	25	47	S.B.C. (Offset) (B15d/19)	3 9
369	12	6/18	25	45.5	S.B.C. (B15d/17) (b)	3 6
361	12	6/18	25	47	S.B.C. (Offset) (B15d/19)	3 9

(b)—Or with the Auxillary "V" shape.

INDICATOR LAMPS

Standard Bulb=Clear Round

Lamp No.	Volts	Watts	Dia.	Length	Cap	List Price Each
990	6	3	11	23	M.E.S.	s. d. 1 3
641	6	3	11	23.5	M.C.C.	1 6
981	6	3	15	27.5	M.E.S.	1 3
642	6	3	15	28	M.C.C.	1 6
987	12	2.2	11	23	M.E.S.	1 3
643	12	2.2	11	23.5	M.C.C.	1 6
986	12	2.2	15	27.5	M.E.S.	1 3
645	12	2.2	15	28	M.C.C.	1 6
985	16	3	15	27.5	M.E.S.	2 3
647	16	3	15	28	M.C.C.	2 6
993	24	2.8	15	27.5	M.E.S.	1 8
651	24	2.8	15	28	M.C.C.	2 3

Caps. MCC=B9s/14, SCC=B15s/10, MES=E10/13.

FESTOON LAMPS

Standard Bulb=Clear Tubular

Standard Cap=S7/8 or S8.5/8.

Lamp No.	Volts	Watts	Approximate Dimensions mm.		List Price Each
			Dia.	Length	
255	6	3	7.5	35.5	s. d. 2 3
253	6	6	11	38	2 7
256	12	3	7.5	35.5	2 3
254	12	6	11	38	2 7
653	24	6	11	38	2 6
654	24	6	11	38 (c)	4 6
260	24	6	11	44	0

CADMIUM YELLOW HEADLAMPS—SINGLE FILAMENT

Lamp No.	Volts	Watts	Approximate Dimensions mm.		Cap	Filament	List Price Each
			Dia.	Length			
374	6	36	38	56	S.C.C. (B15s/17)	Axial S.C.	s. d. 4 0
375	12	36	38	56	S.C.C. (B15s/17)	Axial S.C.	3 9
600	12	48	28	62	P22s/21	Transverse S.C. or C.C.	6 0
601	24 (d)	44	28	62	P22d/21	Transverse C.C.	6 3

(c)—With supported filament (Festoon Lamps and Cadmium Yellow Headlamps). (d)—For commercial vehicles only.

CADMIUM YELLOW HEADLAMPS—DOUBLE FILAMENT

Lamp No.	Volts	Watts	Dia.	Length	Cap	Filament	List Price Each
602	6	30/24	28	62	P22d/21	Vertical Dip	s. d. 6 9
376	12	36/36	38	56	S.B.C. (B15d/17)	Vertical Dip	4 9
603	12	42/36	28	62	P22d/21	Left Dip	6 3
604	12	42/36	28	62	P22d/21	Right Dip	6 3

Left Dip—Right Hand Drive.

Right Dip—Left Hand Drive.

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. mm.	List Price Each
6 (a)	0.2	M.E.S.	15	s. d. 0 8
6 (a)	0.3	M.E.S.	15	0 8
6	0.3	S.C.C.	18	1 4
6 (a)	0.45	M.E.S.	15	0 8
6 (a)	0.5	M.E.S.	15	0 8
6	0.5	S.C.C.	18	1 4
TAIL LAMPS—CLEAR FINISH, ROUND BULB				
1.5	0.15	M.E.S.	15	0 8
3.5	0.15	M.C.C.	11 or 15	0 8
6	0.04	M.E.S.	11 or 15	0 8
6	0.1	M.E.S.	11	0 8

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 mm.		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 7
6.3	0.11	M.E.S.	11	24	0 7
6.5	0.3	M.E.S.	11	24	0 7
TUBULAR BULBS—CLEAR					
6.2	0.3	M.E.S.	10	30	0 7
6.3	0.15	M.E.S.	10	30	0 7
6.5	0.3	M.E.S.	10	30	0 7



TORCH BULBS

CLEAR FINISH				
Volts	Amps	Cap	Dia. mm.	List Price Each s. d.
1.5	0.11	M.E.S.	15	0 8
1.5	0.2	M.E.S.	11	0 8
2	0.6	M.E.S.	15	0 8
2.5	0.2	M.E.S.	11	0 4
2.5	0.3	M.E.S.	11	0 4
3.5	0.15	M.E.S.	11	0 4
3.5	0.3	M.E.S.	11	0 4
4	0.3	M.E.S.	11	0 4
4.5	0.3	M.E.S.	15	0 4
5	0.15	M.E.S.	15	0 8
2.2	0.25	M.E.S.	Lens End 9.5 (max.)	0 10
2.5	0.3	Prefocus	11	1 4



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

Made in Great Britain

"PHOTOFLEX" FLASHBULBS



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

Types PF.3, 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. 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 "Photoflex" Flashbulb has a strong coating of lacquer 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.

Write for your copy of "Perfection in a Flash", which gives complete technical details for the use of "Photoflex" flashbulbs.

TIME & LIGHT Specifications

FOR BLACK AND WHITE PHOTOGRAPHY

TYPE	For between-lens shutters						For focal-plane shutters	
	PF.3	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	5,500	10,000	18,000	30,000	62,000	95,000	15,000	45,000
Max. luminous flux in millions of visual lumens	0.5	0.8	1.4	1.8	2.8	3.6	0.55	1.1
Effective flash duration in milliseconds	—	22	24	30	35	40	—	—
Time to full peak in milliseconds	20	20	20	20	20	30	—	—
Flash duration at half peak in milliseconds	8	10	12	16	20	22	25	45
Time to half peak in milliseconds	16	16	15	13	11	19	17	18
Colour temperature in °Kelvin	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
Voltage range for operation in volts	3-30	3-30	3-30	3-30	3-30	3-250	3-30	3-30
Cap	ASCC	ASCC	ASCC	ES	ES	ES	ASCC	ES
Bulb diameter in millimetres	22	26	30	50	60	70	36	60
Overall length in millimetres	50	57	65	102	115	122	75	115
PRICE	10d.	1/-	1/2	1/6	1/8	2/6	1/5	1/10

FOR COLOUR PHOTOGRAPHY

TYPE	For between-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	0.7	1.2	1.4	2.5	1.8	3.2	0.25	0.5	0.5	1.0
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 at half peak in milliseconds	12	12	20	20	22	22	25	25	45	45
Time to half peak in milliseconds	15	15	11	11	19	19	17	17	18	18
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 in volts	3-30	3-30	3-30	3-30	3-250	3-250	3-30	3-30	3-30	3-30
Cap	ASCC	ASCC	ES	ES	ES	ES	ASCC	ASCC	ES	ES
Bulb diameter in millimetres	30	30	60	60	70	70	36	36	60	60
Overall length in millimetres	65	65	115	115	122	122	75	75	115	115
PRICE	1/4	1/4	1/10	1/10	2/9	2/9	1/7	1/7	2/-	2/-

Made in Holland



PF.38



PF.25



PF.14



PF.3



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 & 4) Pearl

Watts	Standard Voltages	Approx. Dimensions (mm.)		Cap	Obj. Av. Life (Hours)	List Price
		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
No. 4 1,000	110	110	233	G.E.S.	10	16 6

Instructions for use are included with each lamp.

Made in Great Britain

"ARGAPHOTO" (Photopearl)

Watts	Standard Voltages	Approx. Dimensions (mm.)		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

Made in Holland



"PHOTOLITA N.M."
obj. life 6 hrs.

"PHOTOLITA" (Photofloods Reflector Type)

Type	Watts	Volts	Approximate Dimensions (mm.)		Cap	Approx. Beam Candle Power (230V. Lamp)	List Price Each
			Diameter	Overall Length			
Photolita S.M.	275	{ 100, 110 115, 200 210, 220, 230 240, 250 }	80 ± 1	120 ± 3.5	B.C.	3600	13 0
Photolita N.M.	500		110 ± 1	152 ± 3.5	or E.S.	10000	22 0

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

Made in Holland



"ARGAPHOTO B.M."
obj. life 100 hrs.

"ARGAPHOTO" (Reflector Type)

Type	Watts	Volts	Cap	Approximate Dimensions (mm.)		List Price Each
				Diameter	Overall Length	
Argaphoto B.M.	500	{ 115, 210 230, 240 250 }	E.S.	156 ± 1.5	207 ± 7	s. d. 44 0

Made in Holland



SAFELIGHT DARKROOM LAMPS

These light sources have been scientifically designed to confine the light output to the respective wave-band requirements for the processing of various photographic emulsions. They are suitable for amateur or professional use.



I. NEGATIVE MATERIALS

Type No.	Colour	Use	Volts	Watts	Cap	List Price Each
PF 704	Dark Red	Processing of Normal Orthochromatic Material	200/210, 220/230, 240/250.	15	B.C.	s. d. 6 6
PF 744	Green					

In view of the high sensitivity of modern negative emulsions, it is recommended that these light sources be used only for brief inspection periods.

2. POSITIVE MATERIALS

Type No.	Colour	Use	Volts	Watts	Cap	List Price Each
PF 701	Light Red	Bromide, Printing and Enlarging	200/210, 220/230, 240/250.	40	B.C.	s. d. 6 6
PF 723	Yellow					
PF 732	Yellow/Green	Bromide, Printing and Enlarging		15		

The lamps listed above ARE SUBJECT TO PURCHASE TAX—See page 5.

All lamps are natural colour glass with the exception of the Yellow/Green (PF.732) which has a special ceramic finish

Note 1 : Light Red Lamps are suitable as pilot lights for Contact Printers.

Note 2 : GENERAL DIMENSIONS. Diameter 60mm. Overall Length 105mm.

Note 3 : It is most important that the correct voltage bulb be used for the supply, as over-running these lamps will affect the colour emission.

“PHOTOCRESCENTA”

(HIGH INTENSITY PHOTO ENLARGERS)

DETAILS ON APPLICATION



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

INFRA-RED LAMPS

Group I

Philips Infra-Red Lamps are used extensively for pig, poultry and other animal 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.



250W Internal Reflector Bulb



150W Internal Reflector Bulb
(Crown red glazed)

INTERNAL REFLECTOR BULB

Watts	Volts	Approximate Dimensions (mm.)			Cap	List Price Each
		Diameter	Overall Length	L.C.L.		
(a) 250	{ 110/120 200/210 220/230 240/250	126 ± 1.5	185 ± 5	110 ± 5	E.S.	s. d. 15 6
(b) 150		111 ± 1.5	155 ± 2.5	—	E.S.	14 0

Note: (a) Can also be supplied with crown red glazed at 17s. 0d. list price. (b) Crown red glazed. When ordering please state whether required for poultry or pig rearing, or for industrial purposes.

Made in Holland

CLEAR BULB

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



250W Clear Bulb



PURCHASE TAX

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

Made in Great Britain

INFRA-RED FARROWING UNIT



PHILIPS INFRA-RED FARROWING UNIT is stoutly constructed of seasoned timber and hardboard, finished in green fireproof paint, and is complete with two E.S. skirted porcelain lampholders and two Philips E/99 Infra-Red lamps. The use of non-conducting materials for this unit makes a special earthing connection unnecessary.

Dimensions : Length, 31½" ; Height, 7½" ; Max. width, 14½" ; Weight (complete), 7 lbs.

These Units are sold as a kit and can easily be assembled by the user.

List Price each £2 19s. 0d., (complete, including lamps)

INFRA-RED POULTRY BROODING UNITS

PHILIPS INFRA-RED POULTRY BROODING UNITS are made in two sizes. The larger, incorporating the Philips 250W. type E/44 Infra-Red lamp, is recommended for the rearing of up to 75 chicks or 40 to 50 Turkey poults and ducklings. The smaller unit incorporates a Philips 150W. type E/98 Infra-Red lamp and is recommended for rearing up to 40 chicks at a time.



250W. Poultry Brooding Unit

Dimensions :—

250W. Diameter	...	11½"
Height	...	10½"
Weight	...	1 lb. 6 ozs.
150W. Diameter	...	7½"
Height	...	8½"
Weight	...	14 ozs.

List price each
(complete, including lamp)

250W. 36/-

150W. 28/6

With Red-Glaze lamp

250W. 37/6

150W. 28/6



150W. Poultry Brooding Unit

IMPORTANT. All units and holders for Infra-Red lamps should be wired and connected to the mains by a qualified electrician.



The Infra-Red units listed above are NOT SUBJECT TO PURCHASE TAX.
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 (mm.)			Obj. Av'ge Life (Hours)	Special Features	E.L.M.A. Ref.	Philips Type Nos.	List Price Each
			Dia.	Overall Length	L.C.L.					
10	20	Pathe	15 ± 1	57 ± 3	25 ± 0.5	100	Special Features	A1/72	390C	s. d. 4 9
15	40	B15s	16 ± 1	57 ± 3	29 ± 2	50	—	A1/37	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	—	A1/2	6156N	7 3
50	100, 110, 115	B15d	25 ± 1	76 ± 3	34.5 ± 2	50	—	A1/19	6156W	7 3
100	30	P28	25 ± 1	133 ± 7	55.5 ± 0.5	50	Offset Filament	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	—	A1/4	6067C	12 9
100	12, 100, 110, 115, 200, 210, 220, 230, 240, 250	E27	25 ± 1	128 ± 7	75 ± 5	50	—	A1/23	6067E	11 9
100	12	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	—	A1/21	6158N	12 9
100	12	B15s	25 ± 1	76 ± 5	34.5 ± 2	50	—	A1/21	7238N	13 9
100	100, 110, 115	B15d	25 ± 1	76 ± 5	34.5 ± 2	50	—	A1/121	6158W	12 9
100	24	B15d	25 ± 1	75 ± 3	55 ± 2	100	Inverted Burning	A1/135	—	13 9
100	80	Pathe	23 ± 1	93.5 ± 3	35 ± 0.5	50	Offset Filament	A1/79	6130C	11 9
200	100	B15d	25 ± 1	87 ± 5	34.5 ± 2	25	—	A1/25	6166W	18 6
200	100	B15s	25 ± 1	87 ± 5	34.5 ± 2	25	—	A1/26	6166N	18 6
200	100, 110	P15s	25 ± 1	87 ± 5	31.5 ± 0.5	25	—	A1/27	6166X	19 6
200	100, 110	P15d	25 ± 1	87 ± 5	31.5 ± 0.5	25	—	A1/127	6166C	19 6
200	50	E27	32 ± 2	128 ± 7	75 ± 5	50	Central Filament	A1/12	7216E	23 0
200	110	E27	32 ± 2	128 ± 7	75 ± 5	50	Central Filament	A1/12	6160E	18 6
200	50	E27	32 ± 2	128 ± 7	75 ± 5	50	Offset Filament	A1/112	7224E	23 0
200	50	P28	32 ± 2	133 ± 7	55.5 ± 0.5	50	Central Filament	A1/13	7216C	24 0
200	110	P28	32 ± 2	133 ± 7	55.5 ± 0.5	50	Central Filament	A1/13	6160C	19 6
200	50	P28	32 ± 2	133 ± 7	55.5 ± 0.5	50	Offset Filament	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	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	A1/14	7217E	23 0
250	100, 110, 115, 200, 210, 220, 230, 240, 250	E27	32 ± 2	128 ± 7	75 ± 5	50	—	A1/14	6070E	22 0
250	50	E27	32 ± 2	128 ± 7	75 ± 5	50	Offset Filament	A1/16	7230E	23 0
250	50	P28	32 ± 2	133 ± 7	55.5 ± 0.5	50	Offset Filament	A1/15	7230C	24 0
250	50	P28	32 ± 2	133 ± 7	55.5 ± 0.5	50	Central Filament	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	A1/5	6070C	23 0
250	50	BH38	32 ± 2	128 ± 7	59 ± 0.5	50	—	A1/85	7217X	24 0

Bulb Shape—Tubular. Operating Position—
Vertical, cap down unless otherwise stated.
Caps illustrated on Pages 57 & 58.

Made in Holland

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



A1/3 7223C
100W



A1/4 6067C
100W



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 mm.			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, 115	B15s	25 ± 1	100 ± 5	34.5 ± 2	25	(a)	A1/37	7212N	s. d. 27 6
300	100, 115	B15d	25 ± 1	100 ± 5	55.5 ± 0.5	25	(a)	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	59 ± 0.5	25	(a)	A1/6	6131C	28 6
300	100, 110, 115	B & H 46	32 ± 2	128 ± 7	75 ± 0.5	25	Biplane	A1/86	13142H	35 0
400	31	Pache	38 ± 2	128 ± 7	75 ± 0.5	50	{ Inverted Burning Offset Filament }	A1/108	7204C	50 6
400	100, 110, 115	P28	32 ± 2	133 ± 7	55.5 ± 0.5	25	Biplane (a)	A1/39	6117C	35 0
400	110	B & H 38	32 ± 2	128 ± 7	59 ± 0.5	25	Biplane (a)	A1/87	6117H	35 0
400	110	B & H 46	32 ± 2	128 ± 7	59 ± 0.5	25	Biplane (a)	A1/159	6117X	35 0
500	210, 230, 240, 250	P28	32 ± 2	133 ± 7	55.5 ± 0.5	25	Biplane (a)	A1/162	6152C	37 0
500	115	Debie	38 max.	145 ± 8	81	25	{ Inverted Burning Biplane (a) }	A1/153	6169C	38 0
500	110, 115	P28	32 ± 2	133 ± 7	55.5 ± 0.5	25	Biplane (a)	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	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	{ Biplane (a) Inverted Burning }	A1/46	6169F	37 0
500	110	B & H 38	32 ± 2	128 ± 7	59 ± 0.5	25	Biplane (a)	A1/47	6152H	37 0
500	110	B & H 46	32 ± 2	128 ± 7	59 ± 0.5	25	Biplane (a)	A1/160	6152X	37 0
750	110, 115	P28	38 ± 2	133 ± 7	55.5 ± 0.5	25	Biplane (a)	A1/9	6153C	42 6
750	210, 230, 240, 250	P28	32 ± 2	133 ± 7	55.5 ± 0.5	25	Biplane (a)	A1/163	6153C	42 6
750	110, 115	Debie	38 max.	145 ± 8	81	25	{ Biplane (a) 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)	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	210, 230, 240, 250,	P28	64 ± 2	133 ± 7	55.5 ± 0.5	25	Biplane	A1/164	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)	A1/92	6186H	49 6
1000	110, 115	P28	38 ± 2	133 ± 7	55.5 ± 0.5	25	Biplane (a)	A1/59	7242C	49 6
1000	110, 115	B & H 46	38 ± 2	128 ± 7	59 ± 0.5	25	Biplane (a)	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 57 & 58.

(a) 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



A1/58 6185C
1000W



A1/9 6153C
750W



A1/154 6131C
300W

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



PROJECTOR LAMPS

Group I



B1/4 504G
1,000W



A3/1 107E
100W



E/3 437E
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 (mm.)			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 57.

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 57.

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 57 & 58.

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

Made in Holland



PROJECTOR LAMPS

Group I



F/14 6031E
100W



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 (mm.)			Obj. Av. Life (Hours)	Special Features	E.L.M.A. Ref.	Philips Type Nos.	List Price Each
			Diameter	Overall Length	L.C.L.					
24	6	E14	38 ± 2	60 ± 5	50 ± 5	100	Horiz. Coil	F/10	6100M	s. d.
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	6 6
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/5	6002C	34 0
108	6	E27	32 ± 2	128 ± 7	75 ± 5	50	Ribbon Filament	F/1	6002E	33 0

BULB SHAPES—Various.

OPERATING POSITION—According to type CAPS illustrated on Page 57.

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 (mm.)			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 ± 0.7	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	9 0
1.48	6.5	PG	—	—	—	100	Axial Filament	G35	3874C	12 6
4.0	8	B15s	25 ± 1	75 ± 3	44 ± 1	100	Transverse Filament	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 57.

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

Made in Holland



PROJECTOR LAMPS

Group I



S/3 13176P 500W
Also 13192P Col. Temp. 3350°K



FL/1 6013G 500W



S/2 13185P 5,000W
Also 13186P Col. Temp. 3350°K

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

CLASS FL.									
Watts	Volts	Cap	Dimensions (mm.)			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 6

BULB SHAPE—Tubular.
OPERATING POSITION—Any. CAPS illustrated on Page 57.
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	95 ± 2	138 ± 3.5	63.5 ± 2	100	S/3	13176P	s. d. 66 0
1000	115, 210, 230, 240, 250	Bi38	152.5 ± 2	232 ± 6	127 ± 2	100	S/4	6045P	71 6
2000		Bi38	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		Bi38	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 57 & 58.
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 (mm.)			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 57.
PURCHASE TAX does not apply to these lamps.



Made in Holland

Whatever the lighting problem...



The Triumphal Arches in The Mall with Ministry of Works decorative lighting in which Philips 'Altrilux' high intensity internal reflector lamps were used to light the Arches and the Coronet from within the legs of the Arches themselves.

PHILIPS have the answer

THE PHILIPS LIGHTING DESIGN SERVICE offers electrical contractors anywhere in Great Britain and Northern Ireland free advice and assistance in the preparation of lighting schemes for all purposes.

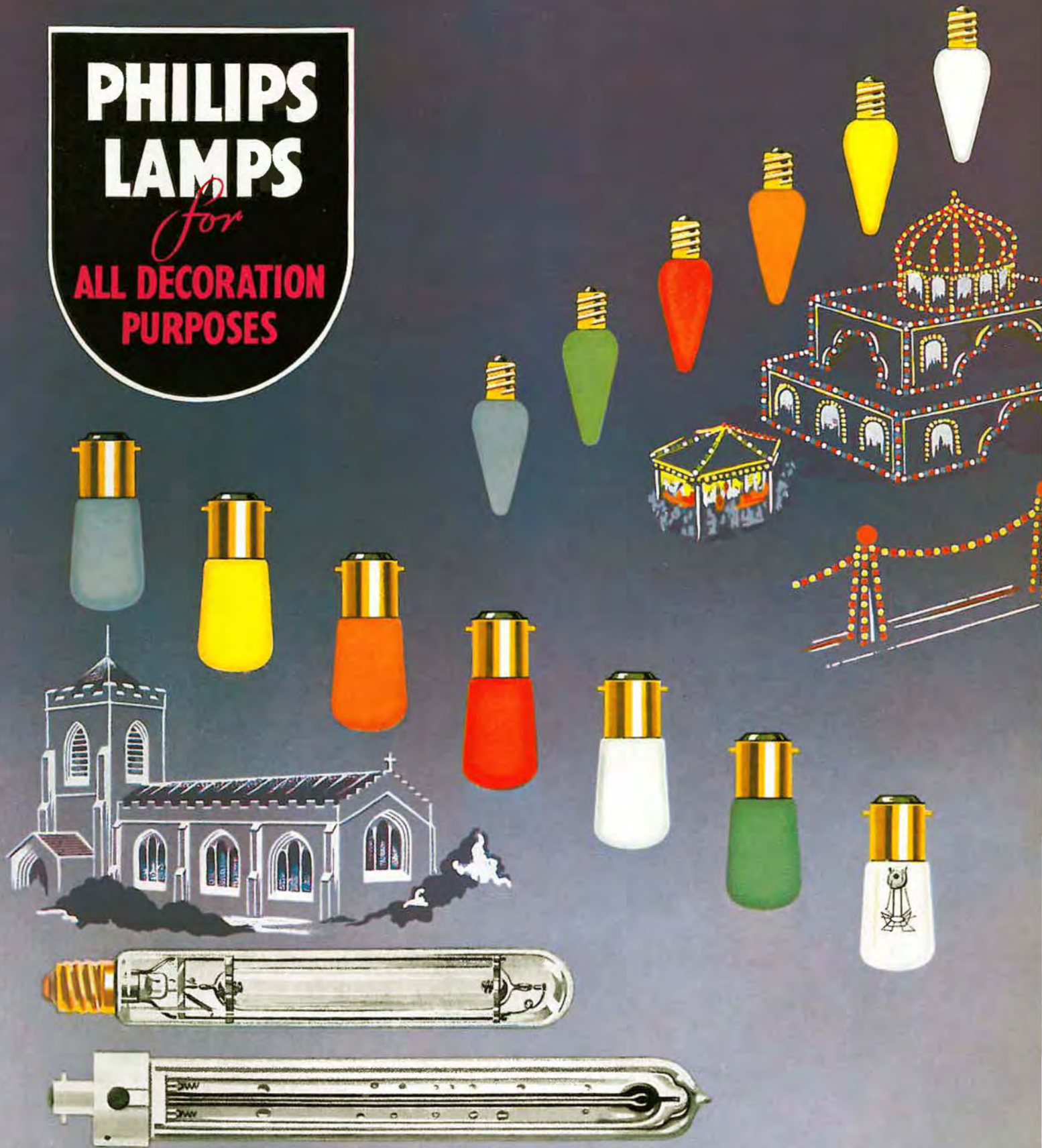
At our branches, registered lighting engineers, experienced in solving all lighting problems, are available to co-operate with you in the design of efficient and economical schemes. These lighting engineers in the field can call on the accumulated knowledge of the Century House staff, which includes a fully qualified architect who has made a special study of lighting in conjunction with architecture and colour.

Philips will be happy to design for you—there is no charge.



PHILIPS LAMPS

for
**ALL DECORATION
PURPOSES**



MERCURY



SIGN



DECORATION



SODIUM



**COLOUR
SPRAY**





PROJECTOR

ARCHITECTURAL

FLUORESCENT



A



B



C



D



E



F

- A The m.v. "Pericles" floodlit with Philips "Altrilux" high intensity internal reflector lamps for the Spithead Naval Review.
- B Chatsworth, famous family home of the Duke of Devonshire, is floodlit with Philips 140W. SO/H Sodium lamps in "Redhill" and "Reigate" fittings.
- C Newcastle United (First Division), use Philips "Winchester" floodlights with Philips 1000W. projector lamps to floodlight their ground.
- D Where good lighting is required without colour discrimination, Philips Sodium lamps provide the most economical lighting possible.
- E Philips Sodium lamps give effective forecourt lighting at the Hillcrest Filling Station, Luton.
- F Philips "Altrilux" high intensity internal reflector lamps reveal the beauty of Grantham Church's 282 ft. medieval spire from ground level.



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.

One of the latest Philips developments 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 32 & 33.

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 Design 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 Electrical 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 37, which require no apparatus in circuit, and should be connected direct to A.C. mains of the correct voltage.



INSTANT-SELF-START FLUORESCENT



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

Groups 9 & 1

A remarkable Philips development, this Philips Fluorescent Lamp operates in series with a Philips Tungsten Ballast Lamp controlling the current, and producing additional light with high efficiency.

The principal features of this Philips System are:—

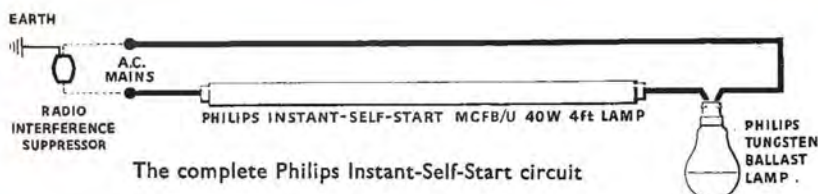
- ★ **SIMPLICITY.** One each of these Fluorescent and Ballast Lamps connected in series, form a complete circuit for use on A.C. 220-250V. mains. Chokes, capacitors and starters are eliminated, together with their materials, weight, wiring, housings, and cost.
- ★ **HIGH EFFICIENCY.** The overall luminous 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 an Argenta bulb. Both have the renowned Philips Double-Coil filaments for high efficiency, and for three 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 Argenta Bulb

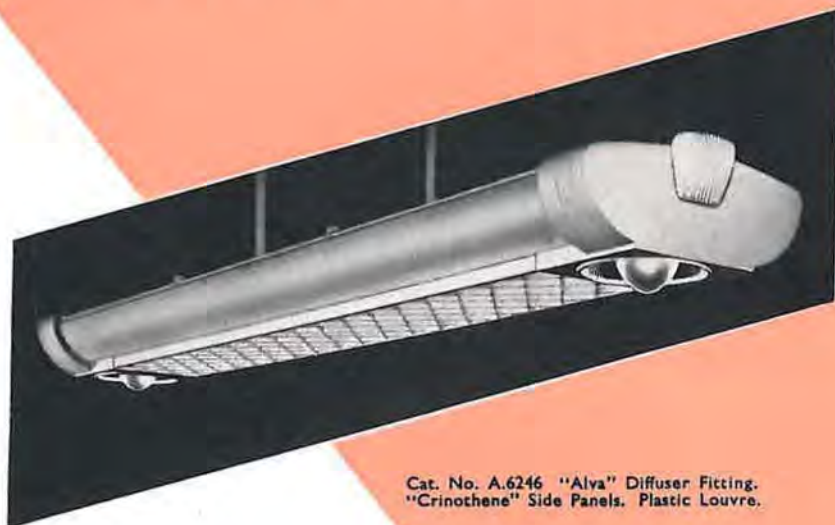


Made in Great Britain

LIGHTING SYSTEM

Group 9
(Fluorescent)

Group I
(Tungsten Ballast)



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



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



Cat. No. R.8312
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. Overall 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						13 3	2 5
					"M" 1520	1320	38						13 3	2 5
					"CM" 1320 (100 hours)	1160	29 (100 hours)						13 3	2 5
Tungsten Ballast Internal Reflector Bowl Pearl	220-230 or 240 or 250	140	0.5	70W.	796	692	11	103 mm.	65 mm.	75 mm.	Internal Reflector Bowl Pearl	3-pin B.C. B22/25x26	4	3
		150	0.5	75W.	854	743	11							9½
		160	0.5	80W.	910	790	11							
Tungsten Ballast Argenta	220-230 or 240 or 250	140	0.5	70W.	847	735	12	117.5 mm.	65 mm.	85 mm.	Argenta	3-pin B.C. B22/25x26	3	0
		150	0.5	75W.	908	790	12							6½
		160	0.5	80W.	968	840	12							
Series Combination (data for "N", "D", "M" or "CM" 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.7225
Lampholder, Ivory white



Cat. No. A.7204
Base for A.7225
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.

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 56.

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.



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. 1 10
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	1 11
MCF/U 30W. 3ft. x 1"	200-250V.	40W.	WW-N-M	1,260	1,100	42	36	1	G13/23	11 0	2 0
†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 0
†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 2
†MCF/U 80W. 5ft. x 1 1/2"	200-250V.	96W.	D-WW-N-M	—	3,600	—	60	1 1/2	Two B.C. (B22/25 x 26)	13 0	2 5
†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	11 9	2 2
†MCF/U 80W. 5ft. x 1 1/2"	200-250V.	96W.	C.M.	2,960	2,200	37	60	1 1/2	Two B.C. (B22/25 x 26)	13 0	2 5

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 in "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. 2 1/2d.

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



Made in Great Britain

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.



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

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	38	Outside dia. 403 \pm 8 m.m. Inside dia. 339 \pm 4 m.m. Tube dia. 32 \pm 2 m.m.	4-pin special	s. d. 35 0	s. d. 6 4

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

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 0

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 56.

BALLASTS

FOR 40w. 4 FT. LAMPS

Cat. No.	For A.C. Voltages	Type	Dimensions	Weight	List Price Each	Std. Pkge. Quantity
H.1750	200-250v.	Elongated	$8\frac{1}{4}" \times 2\frac{1}{8}" \times 1\frac{1}{2}"$	lb. oz. 3 12	£ s. d. 1 10 8	12

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.1870	200-250v.	Elongated	$13\frac{1}{2}" \times 2\frac{1}{8}" \times 1\frac{1}{2}"$	6 4	2 2 8	6
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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	$5" \times 2\frac{1}{8}" \times 1\frac{1}{2}"$	lb. oz. 0 11	£ s. d. 12 0	12
H.1710	440v.	3.5	"Twin-Lamp"	"	$8\frac{1}{2}" \times 2\frac{1}{8}" \times 1\frac{1}{2}"$	1 3	19 0	"

FOR 80w. 5 FT. LAMPS

H.1812	275v.	7.5	"Single-Lamp"	Elongated	$8\frac{1}{2}" \times 2\frac{1}{8}" \times 1\frac{1}{2}"$	1 5	17 4	6
L.4599	275v.	8.0	"Single-Lamp"	Cubic	$4" \times 4" \times 1\frac{1}{2}"$	1 12	17 4	12
H.1813	440v.	7.0	"Twin-Lamp"	Elongated	$15\frac{1}{2}" \times 2\frac{1}{8}" \times 1\frac{1}{2}"$	2 4	1 9 8	6

INSTANT START BALLAST—COMBINED UNIT

FOR 80w. 5 FT. LAMPS MCFA/U

H.1885	200-210	Elongated	$13\frac{1}{2}" \times 2\frac{1}{8}" \times 1\frac{1}{2}"$	6 4	3 16 4	6
H.1886	220-230	Elongated	$13\frac{1}{2}" \times 2\frac{1}{8}" \times 1\frac{1}{2}"$	" "	3 9 0	"
H.1887	240-250	Elongated	$13\frac{1}{2}" \times 2\frac{1}{8}" \times 1\frac{1}{2}"$	" "	3 9 0	"

FOR 40w. 4 FT. LAMPS MCFA/U

H.1785	200-210	Elongated	$9\frac{1}{2}" \times 2\frac{1}{8}" \times 1\frac{1}{2}"$	4 8	2 17 8	6
H.1786	220-230	Elongated	$9\frac{1}{2}" \times 2\frac{1}{8}" \times 1\frac{1}{2}"$	" "	2 14 4	"
H.1787	240-250	Elongated	$9\frac{1}{2}" \times 2\frac{1}{8}" \times 1\frac{1}{2}"$	" "	2 14 4	"

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	—	—		MA/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
					V.J.	12
					SO/H 60w. Lamp	12
					V.J.	12
					SO/H 85w. Lamp	12
					V.J.	12
					SO/H 140w. Lamp	12
					V.J.	6
					MBW 125w.	12
BOX QUANTITIES						
Side Lamps	Head Lamps	Stripflites $8\frac{1}{2}" \times 11\frac{1}{8}"$	Neon	Candle		
288	144	50	50	25		



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 and caps. The light is of a crisp near-white colour, approaching average daylight quality.

The Philips Blended Lamps can be utilised either to economise in electricity, 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 mm.			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	Internal Silica coating	B.C. (B22/25 x 26) or E.S. (E27/25)	s. d. 48 6
MBT/U 250W.	5,100	4,250	20.4	233	110	D = 173 F = 178	"	G.E.S. (E40/45)	56 9

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 mm.			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)	48 6
MBF/V 125w.	135w.	5,300	4,100	42	233	130	167	"	G.E.S. (E40/45)	59 0

* 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
For 80w. lamps (MB/V or MBF/V)				
L.3924	190-230v.	£ 18 8	L.4600 (8 mfd.)	£ 17 4
L.3925	215-255v.	2 18 8	L.4600 (8 mfd.)	17 4
For 125w. lamps (MB/V, MBF/V, MBW/V)				
L.3964	190-230v.	4 19 0	L.4604 (13 mfd.)	1 9 8
L.3965	215-255v.	4 19 0	L.4604 (13 mfd.)	1 9 8
L.3966	190-250v.	4 9 8	L.4604 (13 mfd.)	1 9 8
For 250w. lamps (MA/V)				
L.3815	190-230v.	5 11 4	Below 230v.: L.4610 (20 mfd.)	2 0 4
L.3816	215-255v.	5 11 4	230v. up: L.4606 (15 mfd.)	1 13 4
For 400w. lamps (MA/V, MAF/V)				
L.3776	190-230v.	6 8 0	L.4610 (20 mfd.)	2 0 4
L.3777	215-255v.	6 8 0	L.4610 (20 mfd.)	2 0 4

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



Made in Great Britain



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 Init. Watts with Apparatus on 230V.	Nominal Lumens		Nominal Initial Efficiency Lm/W	Approx. Dimensions (Lamps in Jackets) mm.			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.	£ s. d. 4 17 0	L.4610	£ s. d. 2 0 4	L.4606	£ s. d. 1 13 4
L.3612	210-230V.	4 17 0	L.4610	2 0 4	L.4606	1 13 4
L.3613	230-250V.	4 17 0	L.4606	1 13 4	L.4606	1 13 4
For 140W Lamps (SO/H)						
L.3631	190-210V.	£ s. d. 5 15 0	L.4610	£ s. d. 2 0 4	—	—
L.3632	210-230V.	5 15 0	L.4610	2 0 4	—	—
L.3633	230-250V.	5 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 cap 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



MERCURY PRINTING LAMPS

Made in Holland

Philips 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 mm.		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

Philips 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 3650Å 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. mm.			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.



GERMICIDAL TUBES & FITTINGS



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 Volts	Intensity UV.2537Å $\mu\text{W}/\text{cm}^2$ at 1m.	Energy Output UV.2537Å Watts	Approx. Dimensions		Cap	List Price each s. d.
					Overall length	Dia.		
TUV 7W.	0.033	200-250	1.1	0.1	5½"	1"	E.S.	32 6
TUV 15W.	0.33	53	30	2.9	18"	1"	Med. Bi-pin G13/23	70 0
TUV 30W.	0.37	100	75	7.2	36"	1"	do.	103 0



TUV. 7W. Tube



This new air-sterilizer consists of a dual purpose reflector and Philips 15W. TUV Germicidal Ultra-violet tube, and has been developed for the medical field, but will serve equally well in industry.

For upper-air irradiation, when personnel are present, the hinged and counter-balanced reflector is closed; after working hours the reflector is pulled down for air, floor and equipment irradiation.

Fitted with neon pilot lamp and built-in switch. Finished white stove enamel with bright aluminium foil reflector.

Size closed, 20½ ins. wide; 6½ ins. high; 12½ ins. deep.
open, 20½ ins. wide; 11 ins. high; 8½ ins. deep.

A.7002. Air Sterilizer complete with 15W. TUV tube and control gear

List price £13 11 6

A.7000. 30W. TUV Trough Reflector

List price £6 7 0

Please state A.C. voltage when ordering. Ballasts for voltages other than those listed here are available on request.

In food stores, refrigerators, food processing plants, and many similar situations Philips TUV Germicidal tubes and control gear can be mounted as shown above.

ACCESSORIES & APPARATUS FOR TUV GERMICIDAL TUBES contd.

Cat. No.	DESCRIPTION	List Price Each s. d.
30W.		
H.1650	30W. Ballast with cover. 215/235V. 50C. A.C.	32 8
H.1651	" " " " 235/255V. " " " "	32 8
H.1709	3.25 mfd. Capacitor " " " "	12 0
K.3030	30W. Starter 2 contact type " " " "	4 6
A.7217	Starter Holder 2 contact type. White " " " "	3 4
A.7205	Bi-Pin Lampholders, black (2 per tube) " " " "	2 10

Purchase Tax does not apply to the Germicidal Tubes and Equipment listed on this page.

Made in Holland



ACCESSORIES & APPARATUS FOR TUV GERMICIDAL TUBES

Cat. No.	DESCRIPTION	List Price Each s. d.
7W.		
W.9323	E.S. skirted cordgrip lampholder ... No apparatus required.	5 0
15W.		
H.1568	15W. Ballast with cover. 215/235V. 50C. A.C.	40 6
H.1569	" " " " 235/255V. " " " "	40 6
H.1709	Capacitor for P.F. correction. 3.25 mfd. 250V.	12 0
K.3015	15W. Starter 2 contact type " " " "	4 6
A.7217	Starterholder 2 contact type. White " " " "	3 4
A.7205	Bi-Pin Lampholder, black (2 per tube) " " " "	2 10

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 56.

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	2 18 8
					7 4	2 18 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.

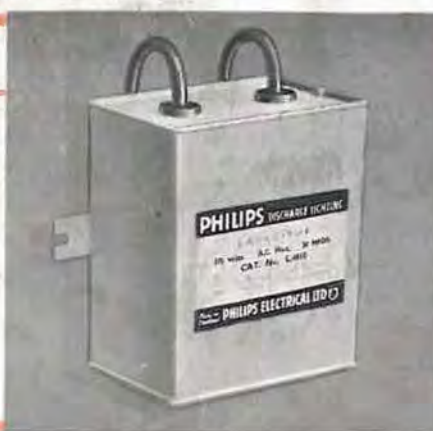
FOR 140w. LAMPS (SO/H)

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	17 4
L.4604	13	" "	1 14	1 4 4
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	40	Conduit Entry	3 12	3 2 8
L.4617	40	T.R.S. Leads	5 4	3 16 0
L.4618	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

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.
Lightweight Batten fitting <i>For Single</i> (A.7300 Chain or A.7271 Tube Suspensions extra) 80W. 5 ft. lamp A.6050 "BIKINI" Four point fixing at centres 22½" x 2".		5 10 0
Closed-end Trough, grey exterior <i>For Single</i> (A.7300 Chain or A.7271 Tube Suspensions extra) 80W. 5 ft. lamp A.6000 "ANDOVER" Fixing Centres: A.6000 30" (¾" conduit)		8 17 4
Ceiling Channel <i>For Single</i> 80W. 5 ft. lamp A.6001 "AYLESBURY" <i>For Twin</i> 80W. 5 ft. lamps A.6031 "ABBOTSBURY" Fixing Centres: A.6001 36" (¾" conduit) A.6031 51" (¾" conduit)		6 5 0 10 0 0
Ceiling Vee <i>For Single</i> 80W. 5 ft. lamp A.6002 "ALDERSHOT" <i>For Twin</i> 80W. 5 ft. lamps A.6032 "ANTRIM" Fixing Centres: A.6002 36" (¾" conduit) A.6032 51" (¾" conduit)		7 19 0 13 9 0
Open-end detachable Trough (A.7300 Chain or A.7271 Tube Suspensions extra)		
"AXMINSTER" <i>Single</i> "AXBRIDGE" A.6003		8 10 0
"AXMINSTER" <i>Twin</i> "AXBRIDGE" A.6033		13 16 0
With vitreous enamel reflector only "AXMINSTER" A.6004 "AXBRIDGE" A.6034		10 6 0 16 1 4
With "Perspex" Reflector "ABERDARE" A.6005		13 4 8
Fixing Centres A.6003/4/5 36" (¾" conduit) A.6033/4 51" (¾" conduit)		

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

Fluorescent Lamps are listed on page 34 and details of apparatus, mains voltages and suspension sets are on page 45.





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

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





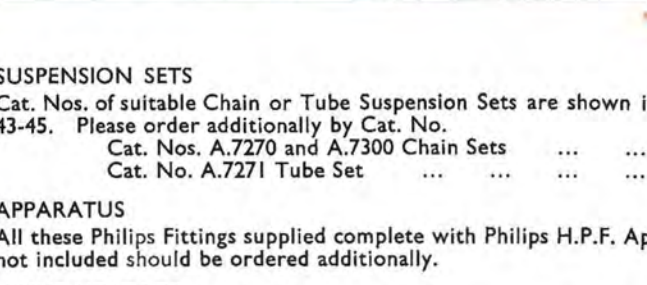
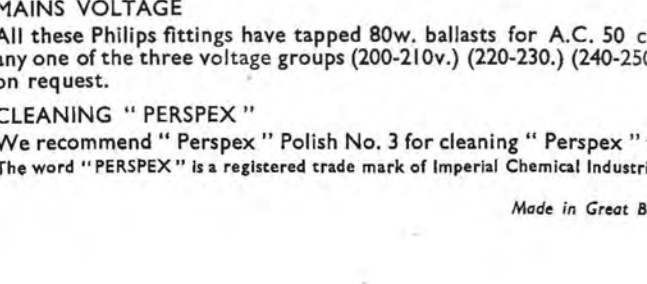
Made in Great Britain

Fluorescent Lamps are listed on page 34 and details of apparatus, mains voltages and suspension sets are on page 45.



FLUORESCENT LIGHTING FITTINGS

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

GENERAL DESCRIPTION		LIST PRICE (excluding lamps and suspensions)
	Fitting with reeded "Perspex" panels and metal louvre (Cat. Nos. A.7300 Chain or A.7271 Tube Suspensions extra)	£ s. d.
	Single lamp A.6060 "APSLEY"	16 15 8
	80W. 5 ft. P.T.	2 10 7
		19 6 3
	Twin lamps	
	80W. 5 ft. A.6064 "ABINGDON"	22 17 0
	Fixing Centres: As A.6001 and A. 6301 P.T.	3 1 11
		25 18 11
	"Perspex" Cornice Fitting	
	Single lamp A.6140 "ABBEY"	12 0 0
	40W. 4 ft. P.T.	1 15 11
		13 15 11
	"Perspex" Diffuser Fitting (Cat. Nos. A.7270 Chain or A.7271 Tube Suspensions extra)	
	Single lamp A.6400 "ANGLESEY"	11 16 0
	40W. 4 ft. P.T.	1 15 2
		13 11 2
	Twin lamps	
	40W. 4 ft. A.6405 "ARUNDEL"	17 0 0
	P.T.	2 6 6
		19 6 6
	Open-end Angle fitting (A.7300 Chain or A.7271 Tube Suspensions extra)	
	For Single	
	80W. 5 ft. lamp A.6010 "ARDEN"	9 5 0
	Fixing Centres: A.6010 36" (3/4" cond.)	

SUSPENSION SETS

Cat. Nos. of suitable Chain or Tube Suspension Sets are shown in brackets under description of fittings on pages 43-45. 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

All these Philips fittings have tapped 80w. ballasts for A.C. 50 cycle mains supplies. Tappings are available for any one of the three voltage groups (200-210v.) (220-230.) (240-250v.). Fittings for other A.C. voltages or for D.C. on request.

CLEANING "PERSPEX"

We recommend "Perspex" Polish No. 3 for cleaning "Perspex" fittings. Jars: 4 oz., 2s. 6d., and 8 oz., 4s. 0d. net. The word "PERSPEX" is a registered trade mark of Imperial Chemical Industries, Ltd.

Made in Great Britain



INSTANT - SELF - START 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 32 and 33.

GENERAL DESCRIPTION

LIST PRICE
(excluding lamp and suspensions)



All-metal semi-indirect commercial 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)

£ s. d.

7 14 0
1 8 11

9 2 11



Commercial 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
1 13 0

10 9 0



All-metal trough Industrial fitting, stove enamel, white inside, grey outside

(Cat. Nos. A.7280 Tube, A.7270 Chain or A.7271 Tube Suspension Sets extra)

A.6252 "ARDINGLEY"

Also with slotted Reflector

A.6256 "ARBROATH"

Can be fitted with Cat. No. A.6260 Polystyrene

Fixing Centres : 41½" or 17½" (¾" cond.)

A.6252 Weight : 17½ lb. (incl. lamps) A.6256 Weight : 16½ lb. (incl. lamps)

Louvre

7 0 0

7 0 0

Polystyrene Louvre **A.6260** (Metal Frame)

For single attachment to

Cat. No. **A.6252 "ARDINGLEY"**
and **A.6256 "ARBROATH"**

*P.T.

2 12 6
9 11

* P.T. not applicable when louvre is ordered at the same time as "Ardingley" and "Arbroath" fittings.



SUSPENSION SETS

Cat. No. A.7280. 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. A.7295C. List price **1s. 0d.** each.

Cat. No. A.7312C. Wood Block for A.7280 Tube Set. List price **6s. 0d.** each.

MAINS VOLTAGES





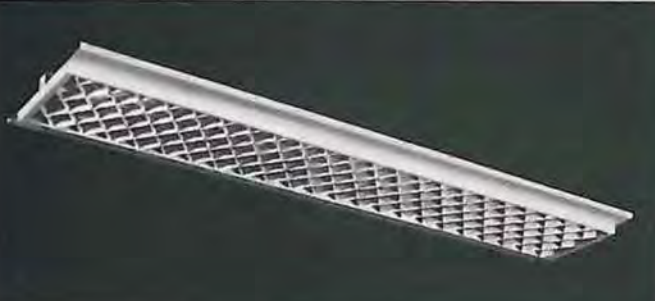
For A.C. 220-250V. mains. Not for D.C. Please order the Ballast Lamps for 220-230V., 240V. or 250V. as required. For A.C. 200-210V. mains, Cat. No. H.1723 transformer is available (List price **52s. 6d.**) for mounting adjacent to these fittings.



Made in Holland

INSTANT - SELF - START

FLUORESCENT LIGHTING FITTINGS

	GENERAL DESCRIPTION	LIST PRICE (excluding lamp and suspensions)
	Lightweight single lamps, Industrial Channel Fittings for ceiling mounting, in ivory stove enamel. A.6280 "ASCOT" Weight : 3 lb. 15 oz. (incl. lamps)	£ s. d. 2 7 6
	Lightweight twin lamps, Industrial Channel Fittings for ceiling mounting, in ivory stove enamel. A.6285 "AINTREE" Weight : 5 lb. 6 oz. (incl. lamps)	3 13 0
	Lightweight single lamps, Industrial Channel Fitting for ceiling mounting, in ivory stove enamel. A.6290 "AYR" Weight : 4 lb. 2 oz. (incl. lamps)	2 10 6
	Lightweight twin lamps, Industrial Channel Fitting for ceiling mounting, in ivory stove enamel. A.6295 "ALFRISTON" Weight : 5 lb. 11 oz. (incl. lamps)	4 2 0
	Polystyrene Louvre Screen A.6297 Finish : Metal frame, Ivory stove enamelled Primarily designed for use with Philips Cat. No. A.6295, "Alfriston." Weight : 4½ lb.	2 16 0

Made in Great Britain

SUSPENSION SETS

Cat. No. A.7280—See page 46 for details and price.

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

Cat. No. A.7271—Tube Set " " 13s. 0d.

Lamp details are given on pages 32 and 33.



FLOODLIGHT PROJECTORS

FOR TUNGSTEN, MERCURY AND BLENDED LAMPS



Made in Great Britain

Description : The "WHITBY" Cat. No. W.8820. Patent No. 674817. A versatile lightweight floodlight projector for medium beam floodlighting.

For Philips lamp

Tungsten G.L.S. 200W. E.S. Clear, Pearl, or "Argenta".
MBT/U 160W. Blended E.S. Pearl or Silica Coated. MB/V 125W.

Any operating position.

Beam Angular Width (approximately) :

35° to 60°.

SPECIFICATION :

Reflector—Aluminium mirror polished, and heat resisting lacquered.

Baseplate and Mounting Bracket—Cadmium plated steel with $4 \times \frac{1}{4}$ " dia. holes at 4" centres.

Fully adjustable through 360° in horizontal plane ; 105° in vertical plane.

Front cover—Moulded "Perspex" held by 4 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 (Philips Pearl or "Argenta" lamp advised).

W.8826C " Yellow " " " " "

W.8827C " Green " " " " "

W.8828C " Blue " " " " "



Made in Holland

Description : The "WINCHESTER" Cat. No. W.8810. 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 silvered glass reflector as standard, or smooth reflector if required. Heat-resisting clear glass front with wire safety mesh. Complete with porcelain G.E.S. lamp-holder, interior terminal block and $\frac{1}{4}$ " dia. cable entry. Externally adjustable focusing. Steel strirrup and baseplate with four $\frac{1}{4}$ " holes at 6 $\frac{1}{2}$ " 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.



Made in Great Britain

Description : The "WESTCLIFF" Cat. No. W.8790. A weatherproofed floodlight projector for general purpose wide and medium beam floodlighting.

For Philips lamp

Tungsten G.L.S. 500W., 750W., or 1,000W. ; any operating position. Mercury 250W. or 400W. MA/V ; operation within 10° of the vertical cap up or down.

Beam Angular Width :

White Vitreous Enamelled Interior—140°.

With additional aluminium reflector—70°.

SPECIFICATION :

Body—Heavy gauge sheet steel vitreous enamelled white inside, grey outside.

Reflector (extra)—Polished aluminium, heat resisting lacquered, secured by central screw and nut already fitted in W.8790.

Lampholder—G.E.S. Porcelain, H.O. Skirted type, fitted to reversible plate to suit lamp rating.

Front Glass—Clear, heat-resisting "Hysil".

Base plate and Trunnion Arms—Wrought Iron, stoved aluminium, $4 \times \frac{1}{2}$ " fixing holes at 6 $\frac{1}{2}$ " centres.

Fully adjustable through 360° in the vertical and horizontal planes.

Aluminium Reflector extra—Cat. No. W.8791C 17s. 6d. list.

Cat. No.	Description	For Philips Lamp	Lamp-holder incl.	Ext. Finish	Dimensions			Weight lb.	List Price (Fitting only)
					Depth	Width	Height		
W.8820	" Whitby " Pat. No. 674817	See above	E.S.	Aluminium Anodised	13"	15"	18"	4 $\frac{1}{2}$	£ s. d. 7 7 0
W.8810	" Winchester "	See above	G.E.S.	Galv.	20 $\frac{1}{2}$ "	20"	23"	30	25 10 0
W.8790	" Westcliff "	See above	G.E.S. See above	Vitreous Enamelled Grey	12 $\frac{1}{2}$ "	22 $\frac{1}{2}$ "	25"	27	14 7 6



FLOODLIGHT PROJECTORS

FOR SODIUM LAMPS

Description : The "REIGATE" Cat. No. R.7670. A heavy duty sodium floodlight projector, for wide rectangular beam general purpose floodlighting.

Beam Angle (approx.)
40° × 20°

SPECIFICATION :

Body—Wrought iron frame with welded sheet steel plates.
Reflector—Mirror polished anodised aluminium.
Front Glass—"Armour Plate", clear, in sliding frame.
Apparatus Box—Cast iron finished green, complete with wood block, fuses, cable entry glands, and adjustable brackets.
Fully adjustable in vertical plane.

Notes : 1. Sodium lamp apparatus is not included and must be ordered additionally. Please state voltage.
2. Pole clamps can be supplied if required. Please state pole diameter—price on application.



Description : The "RENFREW" Cat. No. R.7660. An extra heavy duty sodium floodlight for general purpose wide angle floodlighting.

Beam Angle (approx.) :
45° × 100°

SPECIFICATION :

Body—Silicon alloy.
Reflector—Stainless steel, polished.
Trunnion Arms—M.S. Stove enamelled aluminium.
Front Glass—"Armour plate", clear.
Apparatus Box—Cast iron, stove aluminium, with hinged cover ; complete with wood block and brass cable glands.
Fully adjustable in vertical plane.

Notes : 1. Suitable clamps and trunnion arms for pole mounting can be supplied to order—price on application. Please state diameter of pole.
2. List Price of Fitting does not include gear or lamp.

Description : The "READING" Cat. No. R.7620. A weatherproofed general purpose lightweight sodium floodlight projector for wide rectangular beam floodlighting.

SPECIFICATION :

Body—Sheet steel.
Front Cover—"Perspex", clear with vertically reeded front ends.
Trunnion Arms—Wrought iron stove enamelled aluminium.
Apparatus Box—Sheet steel stove enamelled aluminium complete with wood block, 2-15 amp. fuses and main 1" cable gland.
Reflector—Polished aluminium, stove enamelled clear lacquer.
Fixings—4 Drilled feet 12" × 6" fixing centres.
Fully adjustable in the vertical plane.

Notes : 1. Pole mounting clamps can be supplied to order ; please state pole diameter—price on application.
2. Sodium lamp apparatus is not included and must be ordered separately.
3. List Price of Fitting does not include gear or lamp.



(Patent applied for)

Cat. No.	Description	For Philips Lamp	Lamp-holder incl.	Ext. Finish	Dimensions			Weight lb.	List Price (Fitting only)
					Depth	Width	Height		
R.7670	"Reigate"	SO/H 140W.	B.C.	Green	13"	29"	21½"	60	£ s. d. 23 19 4
R.7660	"Renfrew"	SO/H 140W.	B.C.	Aluminium	8"	28"	23"	71	30 0 0
R.7620	"Reading"	SO/H 140W.	B.C.	Aluminium	8"	29½"	22½"	48½	17 10 0



FLOODLIGHT PROJECTORS

FOR TUNGSTEN, MERCURY AND BLENDED LAMPS

THE "WARRINGTON" - Cat. No. W.8860

Description : A wide-angled floodlight for directing light forward and downward.

For PHILIPS LAMPS

List Price (excluding lamps)	300/500W. G.L.S.		250/400W. MA/V.	
	V.E. Reflector only	Additional Specular metal Reflector	V.E. Reflector only	Additional Specular metal Reflector
With Pole Clamps 3" to 5"	£ s. d.	£ s. d.	£ s. d.	£ s. d.
With Spigot Cap 2" to 4"	16 14 0	18 5 0	18 5 0	19 16 0
With Wall Bracket				
With Angled Wall Bracket	17 0 0	18 11 0	18 11 0	20 2 0



SPECIFICATION.—Reflector : Heavy gauge steel, vitreous enamelled white inside, green outside. Housing for lampholder and wiring : Cast aluminium with vertical spigot for attachment to cast iron spigot cap, pole clamp, flat wall bracket or angled wall bracket. Lampholder : G.E.S. Porcelain, H.O. skirted type, ready wired to connector, easily accessible through cover plate in cast aluminium lampholder housing. Reflector is adjustable in the vertical plane both with Tungsten and Mercury lamps ; lamp position remains unchanged in all cases. Reflector is secured to the aluminium housing by two screws which also clamp it in position after adjustment in vertical plane. For use with Mercury lamps a heat resisting glass cylinder is provided for lamp protection. Dimensions : 25" wide x 17" high x 28" deep (to centre of spigot). Weight : W.8860—22 lbs. (excluding aluminium reflector, pole clamps, spigot caps, etc.). Pole Clamps—3", 6½ lbs. ; 4", 7½ lbs. ; 5", 8½ lbs. Spigot caps—2", 5 lbs. ; 3", 7 lbs. ; 4", 8½ lbs. Angled Wall Bracket—10 lbs. Flat Wall Bracket—15 lbs. Aluminium Reflector—½ lb.



THE "WAKEFIELD" - Cat. No. W.8900

Description : A large circular sheet steel, punched edge, reflector canopy, vitreous enamelled. For general wide angle downward floodlighting of lawns, flower beds, etc.

For PHILIPS LAMPS

3—60W. up to 200W. Clear, Pearl "Argenta" or 160W. Blended MBT/U or MB/V 125W.

SPECIFICATION.—28" dia. steel, vitreous enamelled white inside green outside ; complete with chromium plated lampholder gallery for 3—½" conduit B.C. lampholders ; gallery has 1" dia., only conduit entry to receive vertical support which should carry the cable, the latter is secured by lock nuts at the top.

Installation Note.—Recommended height for the reflector canopy is 4 ft. from ground to rim, allowance should be made for supporting member to be set firm into the ground.

THE "WEYBRIDGE" - Cat. No. W.8590

Description : A spun aluminium housing and baseplate for Philips 500W. "Atrilux" lamp.

For PHILIPS LAMP

500W. "Atrilux" Parabolic internal silvered reflector, bulb top clear or frosted. Beam Angular Width (approximately) : Clear, 40° ; Frosted, 60°. SPECIFICATION.—Body : Aluminium, stove enamelled clear lacquer with drainage holes in base. Baseplate : 6" dia. (Standard), steel galvanised with earth screws ; 3" dia. for 2" cond. box (to order). Lampholder : G.E.S. Porcelain, with ½" cond. cable gland. Lampholder and lamp made watertight by rubber sleeve. Fully adjustable through 360° in horizontal plane ; 160° in vertical plane.

Note.—6" base plates can be provided with a galvanised steel earth spike, Cat. No. W.8591C ; 8" long at 2/6d. each list extra.

Dimensions : Cone housing 10½" long x 8½" max. dia. Weight : 2½ lbs. excluding lamp and earth spike.







Cat. No.	Description	For Philips Lamps	Lamp- holder incl.	External Finish	Dimensions			Weight lb.	List Price (Fitting only) £ s. d.
					Depth	Width	Height		
W.8860	"WARRINGTON"	See above	See above	See above	See above	25"	17"	See above	See above
W.8900	"WAKEFIELD"	See above	B.C.	Green Vitreous Enamel	—	—	—	—	4 15 0
W.8590	"WEYBRIDGE"	500W. "Atrilux"	G.E.S.	Aluminium	—	8½" max.	—	2½	2 13 0



INDUSTRIAL LIGHTING FITTINGS

FOR TUNGSTEN OR BLENDED LAMPS

	GENERAL DESCRIPTION	LIST PRICE (excluding lamps)
	<p>Standard Dispersive Reflector. $1\frac{1}{8}$" hole type. Lampholder not included. Spacing-Height Ratio $1\frac{1}{2} : 1$.</p> <p>W.8506. For 40W. lamp. 10" dia. 5" ht. 1 lb. app. wt.</p> <p>W.8507. For 60W. lamp. 12" dia. 6" ht. $1\frac{3}{4}$ lb. app. wt.</p> <p>W.8508. For 100W. lamp. 14" dia. $7\frac{1}{4}$" ht. $2\frac{1}{4}$ lb. app. wt.</p> <p>W.8536. For 150W. lamp. 14" dia. $7\frac{1}{4}$" ht. $2\frac{1}{4}$ lb. app. wt.</p> <p>W.8509. For 200W. or MBT/U 160W. lamp. 16" dia. 9" ht. $3\frac{1}{4}$ lb. app. wt.</p>	<p>£ s. d.</p> <p>11 2</p> <p>13 6</p> <p>15 8</p> <p>16 10</p> <p>1 2 4</p>
	<p>Deep Dispersive Fitting. Detachable weatherproof canopy top, tapped $\frac{3}{4}$" conduit. Complete with porcelain lampholder. Spacing-Height Ratio $1\frac{1}{2} : 1$.</p> <p>W.8502. For 100W. lamp. B.C. hldr. 14" dia. 9" ht. $3\frac{1}{4}$ lb. app. wt.</p> <p>W.8537. For 150W. lamp. B.C. hldr. 14" dia. 9" ht. $3\frac{1}{4}$ lb. app. wt.</p> <p>W.8503. For 200W. or MBT/U 160W. lamp. E.S. hldr. 16" dia. $10\frac{1}{2}$" ht. 4 lb. app. wt.</p> <p>W.8504. For 300-500W. or MBT/U 250W. lamp. G.E.S. hldr. 18" dia. 13" ht. 5 lb. app. wt.</p>	<p>1 12 4</p> <p>1 13 4</p> <p>2 0 0</p> <p>3 5 4</p>
	<p>Dispersive "Overlamp" Fitting. Weatherproof top, tapped $\frac{3}{4}$" conduit. Complete with porcelain lampholder. Spacing-Height Ratio $1\frac{1}{2} : 1$.</p> <p>W.8527. For 150W. lamp. B.C. hldr. 14" dia. $10\frac{1}{2}$" ht. 4 lb. app. wt.</p> <p>W.8528. For 200W. or MBT/U 160W. lamp. E.S. hldr. 16" dia. $11\frac{1}{2}$" ht. 5 lb. app. wt.</p> <p>W.8529. For 300W. or MBT/U 250W. lamp. G.E.S. hldr. 18" dia. 14" ht. $6\frac{1}{2}$ lb. app. wt.</p> <p>W.8530. For 500W. lamp. G.E.S. hldr. 18" dia. $14\frac{1}{2}$" ht. $6\frac{1}{2}$ lb. app. wt.</p>	<p>1 18 4</p> <p>2 5 8</p> <p>3 9 8</p> <p>3 9 8</p>
	<p>Elliptical Angle Fitting. Detachable weatherproof canopy top, tapped $\frac{3}{4}$" conduit. Complete with porcelain lampholder. Spacing details on request.</p> <p>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.</p> <p>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.</p>	<p>1 16 8</p> <p>2 16 4</p>





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

Made in Great Britain



INDUSTRIAL LIGHTING FITTINGS

FOR TUNGSTEN MERCURY OR BLENDED LAMPS

	GENERAL DESCRIPTION	LIST PRICE (excluding lamps)
	<p>Concentrating "Overlamp" Fitting. Weatherproof top, tapped $\frac{3}{4}$" conduit. Complete with porcelain lampholder. Spacing-Height Ratio 1 : 1.</p> <p>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.</p> <p>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.</p> <p>Standard Concentrating</p> <p>W.8515.* For 100-150W. lamp. B.C. hldr. 11" dia. 7$\frac{3}{4}$" ht. 2$\frac{1}{4}$ lb. app. wt.</p> <p>W.8516. For 200W. or MBT/U 160W. lamp. E.S. hldr. 14" dia. 10$\frac{3}{4}$" ht. 4 lb. app. wt.</p> <p>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.</p>	<p>£ s. d.</p> <p>2 0 8</p> <p>3 0 4</p> <p>1 2 0</p> <p>1 16 0</p> <p>2 15 8</p>
	<p>Parabolic Angle Fitting. Detachable waterproof canopy top, tapped $\frac{3}{4}$" conduit. Complete with porcelain lampholder. Spacing details on request.</p> <p>W.8570. For 100-150W. lamp. B.C. hldr. 11" dia.</p> <p>W.8571. For 200W. lamp. E.S. hldr. 14" dia.</p> <p>W.8572. For 300W. lamp. G.E.S. hldr. 14" dia.</p> <p>W.8573. For 500W. lamp. G.E.S. hldr. 16" dia.</p>	<p>1 8 8</p> <p>2 0 8</p> <p>2 7 0</p> <p>2 19 8</p>
	<p>Large "Overlamp" Diffuser Fitting. For internal 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.</p> <p>W.8540. For 100-150W. G.L.S. and 160W. MBT/U lamp. B.C. hldr. 16" dia. 12" ht.</p> <p>W.8541. For 200W. G.L.S. and 160W. MBT/U lamp. E.S. hldr. 16" dia. 12 ht."</p> <p>W.8542. For 300W. G.L.S. and 250W. MBT/U lamp. G.E.S. hldr. 18" dia. 4$\frac{1}{2}$" ht.</p> <p>W.8543. For 500W. G.L.S. lamp. G.E.S. hldr. 20" dia. 15$\frac{1}{4}$" ht.</p>	<p>3 15 0</p> <p>3 17 8</p> <p>4 17 4</p> <p>5 14 8</p>
	<p>Horticultural Lighting Unit. For internal use only. Anodised aluminium reflector unit for horticultural applications in greenhouses, etc.—Details on request. Tapped $\frac{3}{4}$" conduit.</p> <p>R.7600. For 400W. MA/V Hard Glass Mercury Lamp. H.O. Skirted G.E.S. hldr. Height 5$\frac{1}{8}$" ht. 14$\frac{1}{2}$" lth. 8$\frac{1}{2}$" wth.</p> <p>Mercury Lamps and apparatus must be ordered separately.</p>	<p>3 19 0</p>

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



INDUSTRIAL LIGHTING FITTINGS

FOR SODIUM AND MERCURY LAMPS

FOR SODIUM LAMPS

GENERAL DESCRIPTION

LIST PRICE
(excluding
lamps)



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. $17\frac{1}{2}$ " x $8\frac{1}{2}$ " dia. 5" ht. $5\frac{1}{2}$ lb. app. wt.	4 0 4
R.7550. "Redhill."	For SO/H 85W. lamp. B.C. hldr. 22" x $13\frac{1}{2}$ " dia. 6" ht. $10\frac{1}{2}$ lb. app. wt.	4 12 8
R.7590. "Redhill."	For SO/H 140W. lamp. B.C. hldr. 27" x $16\frac{1}{2}$ " dia. 7" ht. 15 lb. app. wt.	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. $18\frac{1}{2}$ " x $8\frac{1}{2}$ " dia. $1\frac{1}{2}$ lb. app. wt.	2 10 0
R.7551c.	For SO/H 85W. lamp. B.C. hldr. $23\frac{1}{2}$ " x $13\frac{1}{2}$ " dia. $1\frac{1}{2}$ lb. app. wt.	3 10 0
R.7591c.	For SO/H 140W. lamp. B.C. hldr. $27\frac{1}{2}$ " x $16\frac{1}{2}$ " dia. $3\frac{1}{2}$ lb. app. wt.	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.	2 1 0
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.	2 5 8
R.7707. "Rutland."	For MBF/V 80W. lamp. 3-pin B.C. hldr. 18" dia. $14\frac{1}{2}$ " ht. 7 lb. app. wt.	3 6 0
R.7709. "Rutland."	For MBF/V 125W. lamp. G.E.S. hldr. 18" dia. $14\frac{1}{2}$ " ht. 7 lb. app. wt.	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.	3 12 4
R.7701. "Richmond."	For MA/V 400W. or MB/V 1000W. lamp. G.E.S. hldr. 18" dia. $19\frac{1}{2}$ " ht. $12\frac{1}{2}$ lb. app. wt.	4 7 8
R.7702. "Richmond."	For MAF/V 400W. lamp. G.E.S. hldr. 18" dia. $19\frac{1}{2}$ " ht. 13 lb. app. wt.	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.	5 16 0
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.	5 18 8
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.	6 0 0

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

Made in Great Britain



SPOTLIGHT PROJECTORS

The "WEYMOUTH"

Mk. II

Cat. No. W.8580 £3 4s. 8d. list
(Registered Design)

Description : A Spotlight fitting of pleasing appearance, designed in contemporary fashion to grace the many situations to which it can be applied.

The body and 3" baseplate are of aluminium, wire brushed and attractively finished with heat resisting clear lacquer. A cadmium plated knuckle joint allows the fitting to be rotated through 360° in the horizontal plane and approximately 62° in the vertical plane. The unit is wired to an E.S. Porcelain lampholder; a length of twin cable is brought out to allow easy connection to the mains supply.

Special attention has been paid to ventilation of the porcelain E.S. Holder in the main body; the slots are also a decorative feature.

The baseplate has standard 2" centres for conduit box fixing.

For Philips lamp 150W. Silvered Spotlight. 200W. G.L.S. Tungsten. E.S. clear, Pearl or "Argenta."

CONTROL RING Cat. No. W.8584C 14s. list

Additional light control can be obtained by a black anodised aluminium control ring, secured to the "Weymouth Mk. II" by two terminal screws.

The Control Ring gives the following cut-off angles: 150W. Silvered Spotlight, 67.5° 200W. G.L.S., 65°.

Colour Screen Assembly—Cat. No. W.8585C 17s. 6d. per Set list

A set of five, different, best quality colour filters (see below) makes available a wide range of coloured lighting effects to meet all modern requirements.

The colour filters are mounted between two flat aluminium rings, black anodised, which are sprung on to the lip of the "Weymouth Mk. II" fitting with three springs. Each set contains one of each of the following colour filters:—

RED (Primary)—Cat. No. W.8615C AMBER (Medium)—Cat. No. W.8616C

GREEN (Primary)—Cat. No. W.8617C BLUE (Light)—Cat. No. W.8618C

SURPRISE PINK (Lavender)—Cat. No. W.8619C

DIMENSIONS :

W.8580 (Maximum depression towards baseplate)

12½" long overall × 7½" high × 6½" deep

W.8580 (Maximum elevation away from baseplate)

11½" long overall × 13½" high × 6½" deep

Height increased by 1½" when Control Ring, Cat. No. W.8584C is added.

Height increased by 1½" when Colour Screen Assembly Cat. No. W.8585C is added.

WEIGHTS :

W.8580, 14 ozs.

W.8580 & W.8584C, 18 ozs.

W.8580 & W.8585C, 16 ozs.

INSTALLATION NOTE :

The W.8580 can be fitted only with W.8584C or W.8585C, not both at one time.



The "WALTON"

Cat. No. W.8600 £2 5s. 0d. list
(excluding lamp)

Description : A Spotlight fitting for the new 75W. Silvered Spotlight. This is a useful new lighting accessory of modern design for shop window and counter display.

The spun aluminium body and baseplate are wire brushed and attractively finished with clear heat resisting lacquer. The baseplate has standard 2" fixing centres.

The lampholder, 2-pin B.C., is wired and a length of flexible cable brought out to allow for nearby connection to the mains supply.

Adequate ventilation of the lampholder and wiring is provided by the axial slots in the main body.

A Cadmium plated knuckle joint allows the cone lamp housing to be rotated through 360° in the horizontal plane; 50° in the vertical plane.

Though designed primarily for use with Philips 75W. Silvered Spotlight, the unit can be used effectively with a 60W. G.L.S. Tungsten lamp; or for housing the Tungsten Ballast lamp (Silica coated) in conjunction with the Philips Instant Self Start fluorescent lamp channels.

Note:—A 3-slot B.C. holder must be specified when ordering for the latter purpose.

DIMENSIONS : (Maximum depression towards baseplate) 8½" long overall × 4½" high × 4½" deep
(Maximum elevation away from baseplate) 6½" long overall × 8½" high × 4½" deep

WEIGHT : 12 ozs.

CONTROL RING UNIT Cat. No. W.8605

£1 5s. 0d. list (excluding lamp)

Where the lamp housing of the "Walton" is not required, the Philips Control Ring provides effective light control of the 75W. Silvered Spotlight with equal facilities for lamp movement.

The unit consists of a spun aluminium baseplate, with 2" fixing centres, and a clip on control ring, both black anodised. A brown bakelite 2-slot B.C. lampholder with H.O. skirt is secured to the baseplate through a black bronzed knuckle joint. The lampholder has freedom of movement through 360° in the horizontal plane; 70° in the vertical plane.



DIMENSIONS :

(With lamp axis perpendicular to baseplate) 10" high × 3½" dia. × 3½" deep

(With maximum depression towards baseplate) 9½" high × 7½" dia. × 3½" deep

WEIGHT : W.8605, 5 ozs.

CONTROL RING only, Cat. No. W.8608, 11s. 6d. list. Baseplate assembly only

Cat. No. W.8607 (including baseplate, knuckle joint and skirted B.C. holder), 13s. 6d. list.



"WESTBURY" Semi-Indirect Pendant Fitting

Description :

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. 4½ lb. app. wt.

P.T. £8 10 0
1 1 1 1

£10 1 11



FOR STORE LIGHTING



The "Rotterdam Ceiling" installed by Lewis's Ltd., Birmingham.

The "Rotterdam Ceiling" provides completely flexible lighting in the modern store. A grid suspended below the ceiling carries the special fittings, each containing two Phillips instant-Self-Start fluorescent lamps and two tungsten ballast lamps, with louvres filling the two grid squares below each fitting. The whole of the area above the grid is painted midnight blue, thus concealing all electrical and sprinkler services. The lighting units can be moved to form any required lighting pattern, and as no choke coils, capacitors or starters are used, they are of simple construction and light weight. Spotlights are concealed in grid squares not being used for general lighting.

For information about the "Rotterdam Ceiling" or for advice on any lighting problem, consult the Philips Lighting Design Service through your nearest Philips Branch.



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 42, 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	$16" \times 5\frac{1}{2}" \times 7\frac{1}{4}"$	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.7225	Single Contact Lampholder for MCFB/U Lamp	4 0 each
*A.7204	Base for A.7225	1 6 "
*R.8312	3-Slot Batten-holder for Tungsten Ballast Lamp	4 0 "

Suspension Sets for Philips Instant-Self-Start Fluorescent Fittings, please see Page 46.

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.8575C	W.8543	£ s. d. 1 4 0	s. d. 4 6	£ s. d. 1 8 6	1
W.8576C	W.8541	1 4 0	4 6	1 8 6	"
W.8577C	W.8542	1 8 0	5 5	1 14 1	"
W.8578C	W.8543	1 16 0	6 9	2 2 9	"
W.8553	W.8523	8 4	1 7	9 11	"
W.8554	W.8524	8 4	1 7	9 11	"
W.8555	W.8525	13 0	2 5	15 5	"

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

* Lampholders for "I.S.S." illustrated on page 33.

Made in Great Britain

MISCELLANEOUS

Cat. No.	Description	List Price
W.9300C	$\frac{3}{4}$ " Male Conduit Hooks ...	£ s. d. 1 3 0
†W.9316	E.S. Porcelain Skirted Lampholder, with swivel loop ...	each 6 0

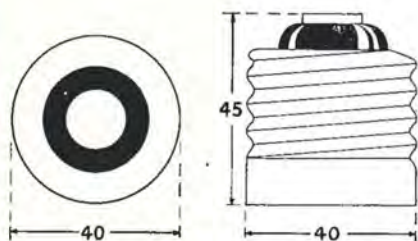


PRINCIPAL TYPES OF LAMP CAPS

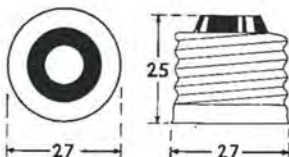
B.S.S. Cap Designations.

Millimetre Dimensions

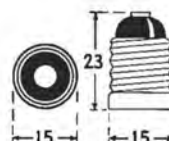
EDISON SCREW



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



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



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

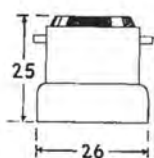


E.10/13
Miniature (M.E.S.)

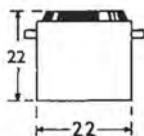
BAYONET



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



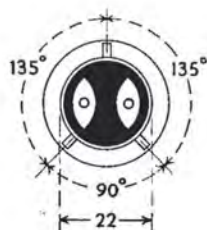
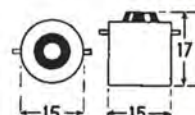
B.22/22
(B.C.)



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

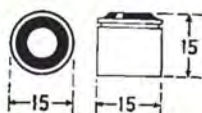


B.15s/17
(S.C.C.)

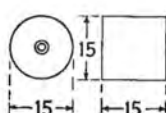


B.22/31 x 30 (3-Pin)

DOUBLE-ENDED



S.15s
Centre
Contact

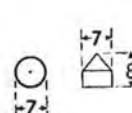


S.15
Clip
Contact

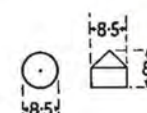


S.19
Clip
Contact

FESTOON LAMP



S.7/8



S.8-5/8

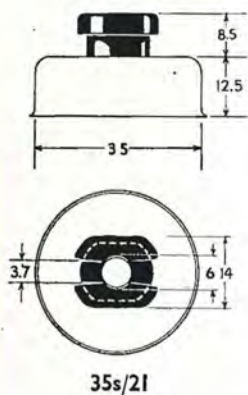


PRINCIPAL TYPES OF LAMP CAPS

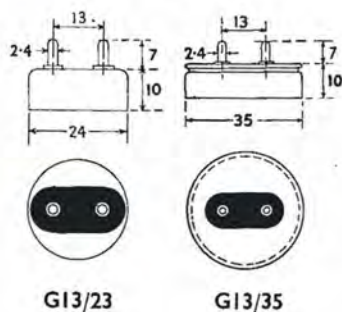
(Continued)

B.S.S. Cap Designations Millimetre Dimensions

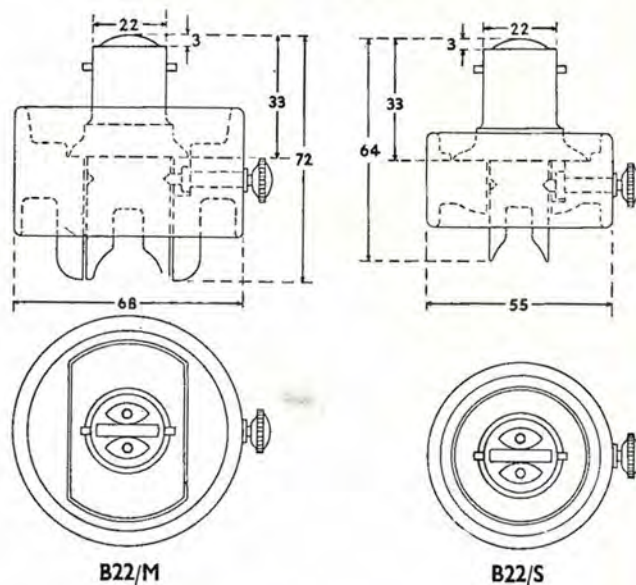
SINGLE CONTACT



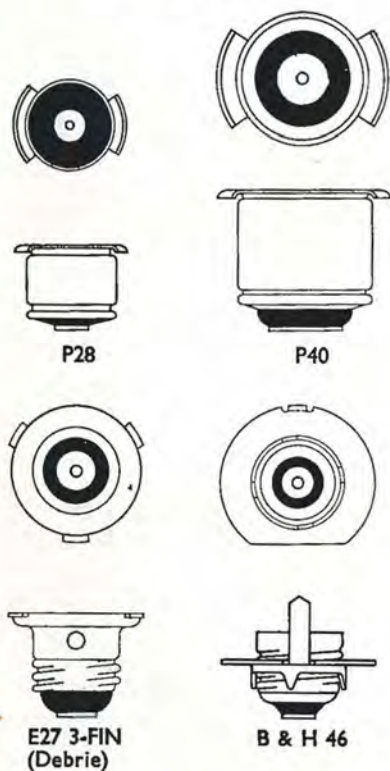
MEDIUM BI-PIN



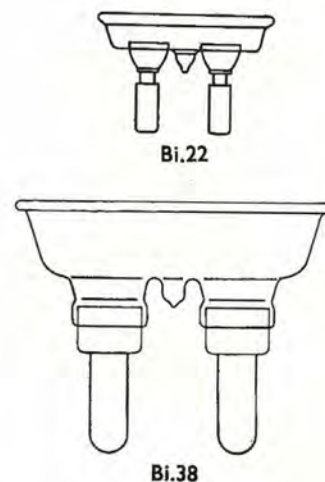
2-PIN BAYONET & V.J. RING CERAMIC



PRE-FOCUS



BI-POST



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