

95-1-5
Osram



THE
WONDERFUL
WONDERFUL
WONDERFUL
LAMP

A
S.E.C.
PRODUCT

G.E.C. TERMS OF BUSINESS AND CONDITIONS OF SALE

1—HOW TO ORDER.

WHEN ORDERING—

- (a) **Quote Section Letter and Catalogue No.** If special quotation has been submitted, give quotation reference also.
- (b) State whether order to be sent in one consignment only, or whether immediate delivery is to be made of what is in stock.
- (c) If it is not imperative that the exact articles specified be sent, add the words "or similar."

TELEPHONE ORDERS—

The telephone number of the G.E.C. Head Office, Magnet House, Kingsway, is TEMple Bar 8000 (90 lines). That of each of the Company's branches will be found on page 64. The Company is prepared to execute orders from its customers received by telephone, but in the interests of customers themselves all such orders should be confirmed in writing. **All Orders confirming Verbal Orders should be plainly marked "Confirmation."**

CORRESPONDENCE—

Owing to the variety of the goods handled by the Company, letters and telegrams dealing with orders should specify—

- (a) Order number and date.
- (b) The nature of the goods, or the Section of the Catalogue concerned.

2—A WARNING.

Instances have occurred where Shippers, Merchants, Contractors, and others receiving indents, specifications, and orders for goods described merely by reference to letters and numbers contained in the Company's Catalogues have quoted for or supplied the goods of other manufacturers under the said letters and numbers. The Directors of the Company have been advised that such action is a fraud upon the Company's rights, and have been successful in obtaining an injunction and damages in proceedings taken in the Chancery Division of the High Court of Justice. The injunction restrained (inter alia) the use or employment in connection with electrical goods not manufactured or supplied by the Plaintiffs, of letters or figures having reference to the Plaintiff's Catalogue, so as to induce the belief that such goods are manufactured or supplied by the Plaintiffs.

While inviting all persons engaged in the electrical trade to make frequent reference to the Company's Catalogue as a standard work on electrical materials and goods, the Directors feel bound to issue this warning against an improper use of the Catalogue.

3—GENERAL CONDITIONS OF SALE.

The Company will use its best endeavours to execute Orders to time, but under no circumstances will be responsible for late delivery.

The Catalogue prices are those ruling on date of issue and are subject to alteration without notice.

The Company reserves the right to cancel any uncompleted Order or suspend delivery in the event of any of the buyers' engagements not being duly met, or if it has reason to believe that such engagements may not be met.

RETURNS.—Goods cannot be taken back later than 10 days from date of Invoice.

Returned goods will not be accepted unless accompanied or preceded by an Advice Note. Advice Note must state reason for the return of goods, the date, reference letter and number of the Invoice on which the goods were charged.

The acceptance of returned goods does not necessarily entitle to credit for same. Credit can only be given when the claim has been examined and found correct.

Goods should not be returned in cases consigned as "empty," since, if so consigned, they are very liable to get lost in transit, or overlooked, in which case the Company will not hold itself responsible, and no credit can be given.

OSRAM

REGD. TRADE MARK

ELECTRIC LAMPS

O.S. SECTION

13th Edition

September, 1937.

OSRAM, on an electric lamp is more than a trade mark. It signifies the product of the best methods of electric lamp manufacture, is the Hall Mark of quality and the guarantee of a unique lamp service.

OSRAM, in a word, is the epitome of long experience—of widespread investigations and tests carried out at the G.E.C. Research Laboratories at Wembley—of the most up-to-date processes and discoveries which, in combination, have produced the OSRAM Electric Lamp.

MADE IN ENGLAND.

The material listed in this publication is offered subject to the Company's terms of business and conditions of sale, a copy of which may be obtained on request. Prices apply to Great Britain and Northern Ireland.

Manufacturers, Wholesale only

THE GENERAL ELECTRIC CO., LTD.

MAGNET HOUSE, KINGSWAY, LONDON, W.C.2.

Telephone: TEMple Bar 8000 (90 lines).
Telegrams: "Electricity, Westcent, London."
Cablegrams: "Polyphase, London."

Branches throughout Great Britain and all the principal markets of the World.

GENERAL LIGHT'G SERVICE

TURN DOWN

STRIPLITE AND TUBULAR LAMPS

ARCHITECTURAL

G.E.C. LAMPS

TRACTION

OSGLIM AND ROBERTSON

Projector

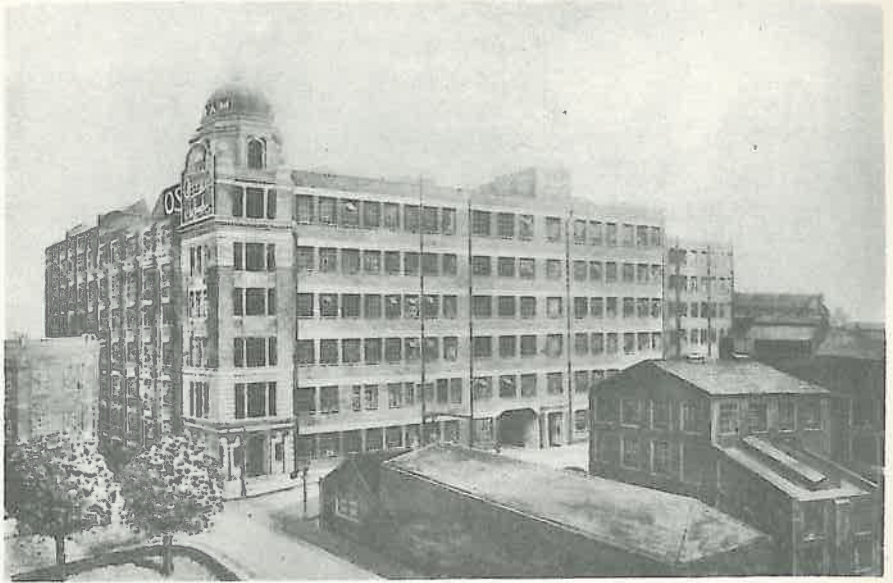
AUTO

FLASH-LIGHT

MINERS AND DECOR'N SUITITS

ULTRA VIOLET

OSIRA



OSRAM—G.E.C. LAMP WORKS, HAMMERSMITH, LONDON.



OSRAM—G.E.C. LAMP WORKS, WEMBLEY.



ELECTRIC LAMPS

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GENERAL LIGHTING SERVICE
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ELECTRIC LAMPS

FOREWORD

The central idea which governs the manufacture of Osram lamps is the maintenance of the highest standard of quality and the closest degree of uniformity of performance which can be attained, and considerations of cost are not allowed to interfere with the achievement of this main object.

The standards by which the quality of Osram lamps is gauged are the British Standard Specifications 161 (1937) and 555 (1935). Samples from every batch of lamps made are tested not only for correct rating but for actual life performance, with the definite aim of ensuring that the quality of every batch shall be at least equal to the requirements of the specifications. Thus very large quantities of lamps are yearly tested to destruction as part of the rigid system of control which ensures the maintenance of these standards.

In addition, exacting tests are applied step by step throughout the manufacture, not only of the lamps themselves, but of their component parts, a procedure which is possible only when, as with Osram lamps, the manufacturers are themselves the producers of every one of the materials and parts they use.

The factories of The General Electric Company Limited are equipped not only for the production of Osram Lamps, but for every constituent part required for these Lamps. Brass caps are made at Chesterfield; glass bulbs, tube and rod are manufactured by automatic bulb blowing and tube and rod drawing machines, which ensure uniformity of product, at the Lemington-on-Tyne and Wembley Glass Works of the Company. Tungsten filaments and argon gas used in the manufacture of Osram lamps, are produced at the Osram Works, where also leading-in conductors and filament supports are manufactured. It is due to the fact that The General Electric Co., Ltd. controls within its own factories the manufacture of every requisite item from the tungsten filament to the finished lamp, that it is enabled to maintain at all times the high and uniform quality of the Osram lamp.

Recognising the value of research, The General Electric Co., Ltd. has erected large and fully equipped Research Laboratories at Wembley, Middlesex, and a substantial portion of these laboratories is devoted specially to research in connection with electric lamps.

In a "Lamp Development" section of these laboratories every new idea in lamp making is scientifically investigated. These laboratories ensure, from the manufacturers' point of view, that new developments in electric lighting will not go unperceived, and, from the users' point of view, that continual progress is being made in efficiency and reliability.



ELECTRIC LAMPS

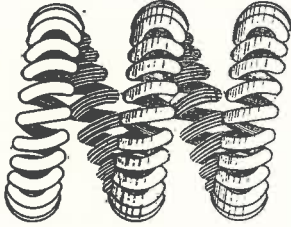


Fig. 1.

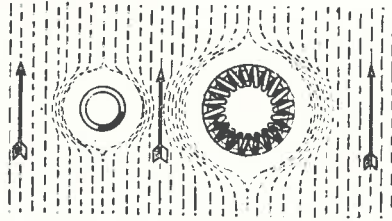


Fig. 2.

OSRAM COILED COIL LAMPS

*Made under British Patents: 226,455, and other
British Patents granted, and pending.*

The application of electricity to the problems of everyday life is the subject of constant research, and in the field of lighting this research has brought two great benefits—a steady reduction in the cost of electric lamps, and a definite increase in their efficiency.

“More Light for Less Current” is the ideal, and Coiled Coil lamps represent remarkable progress in this direction.

The principle of the incandescent filament is retained, but in these lamps the filament, after being coiled, is coiled again upon itself, as shown in the illustration (Fig. 1). Thus the total filament surface exposed to the inert gas surrounding it is reduced, and less current is needed to maintain its brilliance. The Coiled Coil lamps, by this method of construction, give up to 20 per cent. more light for the same current consumption, with normal length of life.

The diagram (Fig. 2) shows to scale the relative diameters of the ordinary coiled filament and of the “Coiled Coil” filament and the surrounding gas layers. The diameter being larger in the second case, it might at first be supposed that losses would be greater, but the sectional diagrams do not show the reduction of effective filament length, which much more than compensates for the increased diameter.

The high standard of quality which characterises all G.E.C. products is applied rigorously in the manufacture of Osram Coiled Coil lamps, and the claims made for them are unconditionally guaranteed by The General Electric Company, Ltd.

Osram lamps which incorporate the “Coiled Coil” filament are 40, 60, 75 and 100 watts with Pearl, Clear or Opal bulbs in the 100/130 and 200/260 volt range.

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ELECTRIC LAMPS

SERVICE DEPOTS

ABERDEEN	Magnet House, 32, Market Street Telephone No. Central 2770/1
BELFAST	Magnet House, Queen Street Telephone No. Belfast 25656 (3 lines)
BIRMINGHAM	Magnet House, Moor Street Telephone No. Midland 4421/8 (8 lines)
BLACKBURN	Magnet House, 40/42, Darwen Street Telephone No. 4141/2 (2 lines)
BLACKPOOL	Magnet House, 24, Birley Street Telephone No. 3233 (2 lines)
BRIGHTON	Regent Hill, Western Road Telephone No. 3277/8
BRISTOL	Magnet House, 26, Victoria Street, 1 Telephone No. 24551 (3 lines)
CARDIFF	Magnet House, Castle Arcade and Womanby Street Telephone No. 2620
CORK	Magnet House, Grand Parade Telephone No. 823
CROYDON	516, London Road Telephone No. Thornton Heath 3246
DUBLIN	Magnet House, Trinity Street Telephone No. 21335/6/7/8
DUNDEE	26/30, North Lindsay Street Telephone No. 2168/9 (2 lines)
EDINBURGH	Magnet House, 8, George Street Telephone No. 23241/5
GLASGOW	Magnet House, 71, Waterloo Street, C.2 Telephone No. Central 9250
GLOUCESTER	Magnet House, 2, St. Aldate Street Telephone No. 3017
HULL	Magnet House, 164, 166, 168, George Street Telephone No. Central 34625/6
INVERNESS	14, Falcon Square Telephone No. 830
IPSWICH	Electric House, Lloyds Avenue Telephone No. 3771/2/3 (3 lines)
LEEDS	Magnet House, Wellington Street Telephone No. 20671 (3 lines)
LEICESTER	Magnet House, 33, Rutland Street Telephone No. 58111/2
LIVERPOOL	Magnet House, Church Alley Telephone No. Royal 5380 (6 lines)
MANCHESTER	Magnet House, Victoria Bridge Telephone No. Blackfriars 3434 (8 lines)
MIDDLESBROUGH	Magnet House, 52/58, Corporation Road Telephone No. 3621/2
NEWCASTLE-ON-TYNE	Magnet House, Gallowgate Telephone No. 25160/1/2/3/4
NOTTINGHAM	Magnet House, 25, Stoney Street Telephone No. 43547/8/9 and 43540
PLYMOUTH	Magnet House, 175, Union Street Telephone No. 60226 (3 lines)
SHEFFIELD	Magnet House, Fitzalan Square, 1 Telephone No. 25101/2/3
SOUTHAMPTON	Magnet House, Commercial Road. Telephone No. 5631/2/3
STOKE-ON-TRENT	Magnet House, South Wolfe Street Telephone No. 48575/6 (2 lines)
SWANSEA	Magnet House, Northampton Place Telephone No. 5026/7/8 (3 lines)

Head Office: Magnet House, Kingsway, London, W.C.2.

Telephone: TEMple Bar 8000 (90 lines). Telegrams: "Electricity, Westcent, London."
Cablegrams: "Polyphase, London."



ELECTRIC LAMPS STANDARD VOLTAGES

GROUP I.

Below are given the voltages which have been standardized for Group I. Lamps from 25 to 260 volts. The prices of Group I. Lamps shown in this catalogue apply only to the standard voltages in each range

Prices of lamps for other voltages will be quoted on application.

OSRAM GASFILLED LAMPS.	
Voltage Range.	Standard Voltages.
25—30	25, 30
35—55	35, 40, 45, 50, 55
60—85	60, 65, 70, 75, 80, 85
100—130	100, 105, 110, 115, 120, 125, 130
200—260	200, 210, 220, 230, 240, 250, 260
OSRAM VACUUM LAMPS.	
Voltage Range.	Standard Voltages.
25—30	25, 30
35—55	50
60—85	60, 65, 70, 75, 80, 85
100—130	100, 105, 110, 115, 120, 125, 130
200—260	200, 210, 220, 230, 240, 250, 260
ROBERTSON CARBON FILAMENT LAMPS.	
Voltage Range.	Standard Voltages.
100—130	100, 105, 110, 115, 120, 125, 130
200—260	200, 210, 220, 230, 240, 250, 260

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ELECTRIC LAMPS

STANDARD PACKAGES

The ordering of lamps in standard packages cannot be recommended too strongly as it expedites delivery and reduces transit breakages. All lamps are stocked ready packed in the quantities shown in the accompanying schedule, so that they can be despatched at a moment's notice.

FIBERITE STORAGE BINS.

For transit, in addition to the individual packing, the lamps are packed in strong fiberite boxes. These boxes are of a convenient size, shape and substance to be stacked one on top of the other and used as storage bins, thus effecting considerable saving both in time and space.

SCHEDULE OF STANDARD PACKING.

	Watts	Voltage range	Quantity in standard package
OSRAM LAMPS (Gasfilled)	15	25 to 55	100
	25	25 to 130	100
	40	25 to 260	100
	60	25 to 260	100
	75	100 to 260	50
	100	35 to 260	50
	150	35 to 260	50
	200	35 to 260	24
	300	35 to 260	12
	500	35 to 260	12
	750	100 to 260	12
	1000	100 to 260	12
1500	100 to 260	12	
OSRAM LAMPS (Vacuum)	15	100 to 260	100
	25	100 to 260	100
	40	100 to 260	100
OSRAM LAMPS (Automobile)	Type	Bulb diameter	Quantity in standard package
	Headlight Sidelight Tail-light Indicator Festoon	m/m 38	12
		23 and 19	12
		15	25
		11 and 8	12
G.E.C. Type "B"	Watts	Voltage Range	100 100 50
	40	100/130 200/260	
	60 100		



ELECTRIC LAMPS PACKING, DELIVERY & BREAKAGES IN TRANSIT

Quantity	District.	Packing.	Delivery.	Transit breakages.
Groups I., II., III., V., VI. and VIII. Any quantity.	Inside G.E.C. free delivery areas.*	FREE	FREE	
Group I. Lamps to the list value of NOT less than £1 sent to one address Groups II., V., VI. and VIII. Lamps to the list value of NOT less than £1 sent to one address.	Inside Railway Company's free delivery areas.	FREE	FREE	Replaced or credited at G.E.C. option. †
Group III. Standard boxes of 100 lamps.	Anywhere in the United Kingdom, by post.	FREE	FREE	
Group I. Lamps to the list value of LESS than £1. Groups II., V., VI. and VIII. Lamps to the list value of LESS than £1. Group III. LESS than 100 lamps	Outside G.E.C. free delivery areas.*	FREE	Charged at cost.	At purchasers' risk.

† Transit breakages must be returned Carriage Paid, within 7 days, and G.E.C. advice note number quoted.

The Company does not accept responsibility for the safe custody of, or undertake to return, lamps forwarded for examination.

* G.E.C. FREE DELIVERY AREAS.

Within 20 miles of the G.P.O., London.

Within 10 miles of the G.P.O., in the following towns:—

Aberdeen	Chester	Hastings	Preston
Accrington	Chesterfield	Huddersfield	Reading
Ashford (Kent)	Colchester	Hull	Rhyl
Barrow	Colwyn Bay	Inverness	Rotherham
Bedford	Cork	Ipswich	Rugby
Belfast	Coventry	Lancaster	Salisbury
Birkenhead	Croydon	Leeds	Sheffield
Birmingham	Darlington	Leicester	Southampton
Blackburn	Derby	Lincoln	Southend-on-Sea
Blackpool	Doncaster	Llandudno	Southport
Bournemouth	Dorchester	Liverpool	South Shields
Bradford	Dublin	Maidstone	Stockton-on-Tees
Brighton	Dundee	Manchester	Stoke-on-Trent
(including Lewes)	Eastbourne	Middlesbrough	Sunderland
Bristol	Edinburgh	Newcastle-on-Tyne	Swansea
Burnley	Exeter	Newport (Mon.)	Taunton
Burslem	Glasgow	Northampton	Tonbridge
Cambridge	Gloucester	Norwich	Tunbridge Wells
Canterbury	Grimby	Nottingham	Walsall
Cardiff	Guildford	Oxford	Wolverhampton
Carlisle	Guiseley	Peterboro	Worthing
Carmarthen	Halifax	Plymouth	
Cheltenham	Hanley	Portsmouth	

GENERAL LIGHT 'G' SERVICE
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ELECTRIC LAMPS

STANDARD LAMP CAPS

The illustrations below show the standard types of lamp caps fitted to OSRAM lamps together with the names by which they are known. The letters in brackets are the abbreviations used for these names throughout this catalogue.



Bayonet (B.C.)



Goliath Edison Screw (G.E.S.)



Edison Screw (E.S.)



Small Bayonet (S.B.C.)



Small Edison Screw (S.E.S.)



Prefocus



Miniature Edison Screw (M.E.S.)

Scale :—Half size.

LIST OF EXTRA CHARGES ON LIST PRICES FOR VARIATIONS FROM STANDARD PRACTICE GROUP I.

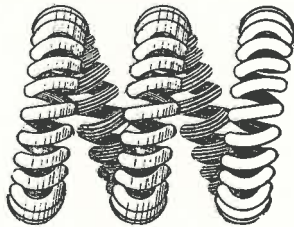
Variation from standard	Group I.		
	OSRAM		ROBERTSON.
	Vacuum.	Gasfilled.	Carbon.
VARNISHING	10%	10%	—
SILVERING	Price quoted	on application	—
*CAPS: For S.B.C., S.E.S., S.C.C., in place of B.C., E.S., (See also exceptions for Sign Lamps on pages 27, 28 and 29)	2d. each.	2d. each.	2d. each.
For G.E.S. in place of B.C. or E.S. Caps or vice versa	—	1/- each.	—

* S.B.C., S.E.S. and S.C.C. Caps cannot be supplied for higher wattages than 40 watts.



ELECTRIC LAMPS
FOR GENERAL LIGHTING SERVICE
GROUP I.

COILED COIL LAMPS



A portion of an OSRAM Coiled Coil filament highly magnified.

Osram Coiled Coil lamps give more light for the same current consumed than ordinary single coil gasfilled lamps.

Osram Coiled Coil lamps are guaranteed to comply in every detail with the British Standard Specifications No. 161-1937 for Coiled Coil lamps.

The approximate extra light given by Osram Coiled Coil lamps over single coil lamps is up to 20% for 40 watt lamps, up to 15% for 60 watt lamps, up to 12½% for 75 watt lamps, and up to 10% for 100 watt lamps.

EXAMPLE.

LIGHT OUTPUT OF OSRAM 230 Volt COILED COIL AND 230 Volt SINGLE COIL LAMPS.

Type of Lamp.	Wattage and approx. Light Output in Lumens.			
	40 watts.	60 watts.	75 watts.	100 watts.
OSRAM Coiled Coil Lamps ...	415	700	930	1340
„ Single Coil Lamps ...	345	610	820	1210
Extra light given by OSRAM COILED COIL LAMPS	70	90	110	130

For description of the Coiled Coil filament see page 5.

OSRAM COILED COIL LAMPS

100-130 and 200-260 Volts.

TYPE	WATTAGES & PRICE PER LAMP			
	40 watts	60 watts	75 watts	100 watts
PEARL	1/7	1/7	2/3	2/3
CLEAR	1/9	1/9	2/6	2/6
OPAL	1/10	1/10	2/9	2/9

For dimensions see page 13.

GENERAL LIGHTING SERVICE
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**ELECTRIC LAMPS
FOR GENERAL LIGHTING SERVICE
GROUP I.**

PEARL OSRAM LAMPS

The Pearl, or inside frosted bulbs, are recognised as standard for 15 to 100 watts General Lighting Service Lamps by the British Standards Institution in B.S.S. 161—1937, with which specification PEARL OSRAM Lamps comply in every detail.



25 watts



100 watts

Standard Watts	Standard Cap	STANDARD VOLTAGES AND PRICE PER LAMP							
		100, 105, 110, 115, 120, 125, 130, 200, 210, 220, 230, 240, 250 and 260, Volts		25 and 30 Volts		35, 40, 45, 50 and 55 Volts		60, 65, 70, 75, 80 and 85 Volts	
		s.	d.	s.	d.	s.	d.	s.	d.
15	B.C.	1	9	2	1	2	6	2	6
25		1	7	2	1	2	6	2	6
*40				2	6	2	6	2	6
*60				3	0	3	0	3	0
*75		2	3	—	—	—	—	—	—
*100				—	—	5	3	5	3
150		3	6	—	—	—	—	—	

NOTE: In the above table the 15 watts size for 60 to 260 volts and the 25 watts size for 200 to 260 volts are vacuum type.

* These lamps (100/130 & 200/260 volt) are made with the "Coiled Coil" filament (see pages 5 and 11)

For Extras see page 10. For Dimensions and Light Output see pages 13 and 15.

For PEARL OSRAM Traction Lamps see pages 32-33.

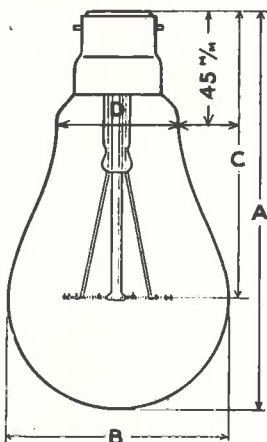


ELECTRIC LAMPS
FOR GENERAL LIGHTING SERVICE

GROUP I.

PEARL AND CLEAR
OSRAM LAMPS

15 to 100 watts.



Dimensional Diagram 15-100 watts.

DIMENSIONS AND LIGHT OUTPUT										
Standard watts	Voltage range	Approx. lumens	Length		Bulb diameter		Cap contact to filament centre		Neck diameter	
			A		B		C		D	
			Tolerance ± 3 1/2 m/m		Tolerance ± 1 m/m		Tolerance ± 3 m/m		Tolerance ± 1 m/m	
			m/m	ins.	m/m	ins.	m/m	ins.	m/m	ins.
15	25 and 30	155	92.5	3 3/8	55	2 1/8	65	2 1/4	30	1 1/8
	35-55	145								
	60-130	†140								
	200-260	†118								
25	25 and 30	290	100	3 1/2	60	2 3/8	70	2 1/2	33	1 1/2
	35-55	275								
	60-85	260								
	100-130	240								
40	25 and 30	540	110	4 1/8	60	2 3/8	80	3 1/8	33	1 1/8
	35-55	515								
	60-85	470								
	100-130	470								
60	25 and 30	870	117.5	4 3/8	65	2 1/2	85	3 1/8	35	1 1/4
	35-55	835								
	60-85	790								
	100-130	790								
75	100-130	1060	125	4 3/8	70	2 1/2	90	3 1/4	39	1 1/4
	200-260	*910								
100	35-55	1480	137.5	5 1/8	75	2 3/8	100	3 3/8	39	1 1/4
	60-85	1400								
	100-130	1500								
	200-260	*1320								

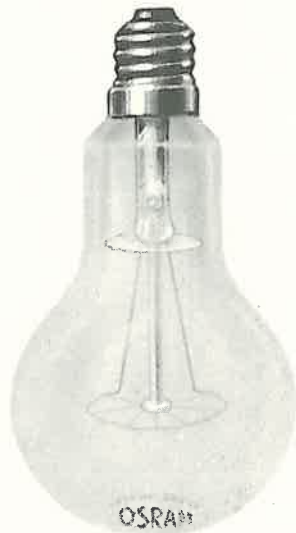
* These light output figures are for coiled coil filament lamps. The remainder are for single coil lamps.

† These lamps are Vacuum, remainder Gasfilled.

TURN DOWN
STRIPLITE AND TUBULAR LAMPS
ARCHITECTURAL LAMPS
G.E.C. LAMPS
TRACTION LAMPS
OSGLIM AND ROBERTSON
PROJECTOR
AUTO
FLASH-LIGHT
MINERS AND DECORATIVE LAMPS
ULTRA VIOLET
OSIRA



ELECTRIC LAMPS
FOR GENERAL LIGHTING SERVICE
GROUP I.



200 watts
 OSRAM Gasfilled Lamp.
 E.S. Cap.

CLEAR GASFILLED LAMPS

Standard watts	Standard cap	STANDARD VOLTAGES AND PRICE PER LAMP								
		100, 130, 250	105, 210, 250	110, 220, 260	115, 220, 260	120, 230, 260	125, 240, 260	25 and 30 Volts	35, 50 and 55 Volts	60, 75, 80 and 85 Volts
		£	s.	d.	s.	d.	s.	d.	s.	d.
*†40	B.C.		1	9	2	9	2	9	2	9
*†60	B.C.		1	9	3	3	3	3	3	3
*†75	B.C.		2	6	—	—	—	—	—	—
*†100	B.C.		2	6	—	—	5	6	5	6
150	B.C.		3	6	—	—	7	9	9	0
200	E.S.		6	6	—	—	9	6	12	3
300	G.E.S.		10	0	—	—	12	3	15	6
500	G.E.S.		12	6	—	—	15	6	19	6
750	G.E.S.		16	0	—	—	—	—	—	—
1000	G.E.S.		16	0	—	—	—	—	—	—
1500	G.E.S.	1	2	6	—	—	—	—	—	—

For EXTRAS see page 10.

* These lamps (100/130 volts and 200/260 volts) are made with the coiled-coil filament (see pages 5 and 11).

† The dimensions and light output figures of the 40, 60, 75 and 100-watt sizes are the same as those shown on page 13 for PEARL OSRAM Lamps which are the recognised standards for these wattages, and should be used in preference to clear lamps for General Lighting Service. For dimensions of the other sizes see page 15.



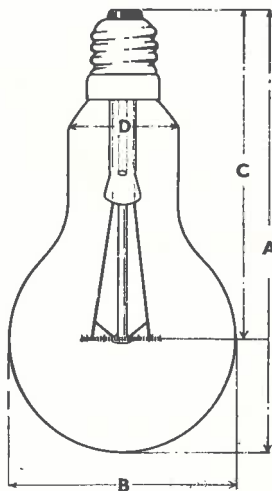
ELECTRIC LAMPS

FOR GENERAL LIGHTING SERVICE

GROUP I.

CLEAR GASFILLED LAMPS

150 to 1500 watts.



Dimensional Diagram
150-1500 watts.

DIMENSIONS AND LIGHT OUTPUT

Standard watts	Voltage range	Approx. lumens	Length		Bulb diameter		Cap contact to filament centre		Neck diameter	
			A		B		C		D	
			m/m	ins.	m/m	ins.	m/m	ins.	m/m	ins.
150	35-55	2370	160±4.5	6½	80±1	3½	120±4	4½	39±1	1½
	60-85	2240								
	100-130	2130								
	200-260	2030								
200	35-55	3340	178±5.5	7	90±1	3½	133±5	5½	45±1	1½
	60-85	3250								
	100-130	2960								
	200-260	2900								
300	35-55	5300	233±7	9½	110±1.5	4½	178±6	7	50±1	1¾
	60-85	5220								
	100-130	4770								
	200-260	4720								
500	35-55	9550	267±8	10½	130±1.5	5½	202±7	7¾	52±1	2
	60-85	9200								
	100-130	8700								
	200-260	8470								
750	100-130	—	300±9	11¾	150±1.5	5¾	225±8	8¾	55±1	2¾
	200-260	13610								
1000	100-130	19300	300±9	11¾	150±1.5	5¾	225±8	8¾	55±1	2¾
	200-260	19100								
1500	100-130	30300	335±9	13½	170±1.5	6¾	250±8	9¾	60±1	2¾
	200-260	30300								

STRIPLITE
TURN
DOWN
AND
TUBULAR
LAMPS

ARCHITECTURAL
LAMPS

G.E.C.
LAMPS

TRACTION
LAMPS

OSGLIM
AND
ROBERTSON

Projector

AUTO

FLASH-LIGHT

MINERS
AND
DECORATIVE
OUTLETS

ULTRA
VIOLET

OSIRA



ELECTRIC LAMPS
FOR GENERAL LIGHTING SERVICE

GROUP I.



60 watts
 OSRAM Opal Lamp.

OPAL LAMPS (GASFILLED)

Standard watts	Standard cap	VOLTAGE RANGES AND PRICE PER LAMP.	
		100 to 130 Volts and 200 to 260 Volts	
		s.	d.
†25	B.C.	1	10†
*40	B.C.	1	10
*60	B.C.	1	10
*75	B.C.	2	9
*100	B.C.	2	9
150	B.C.	4	0
200	E.S.	7	6
300	G.E.S.	11	3
500	G.E.S.	14	0

Standard watts	Approx. Dimensions			
	Length		Diameter	
	m/m	ins.	m/m	ins.
25	100	3 ¹⁵ / ₁₆	55	2 ³ / ₁₆
40	110	4 ¹ / ₁₆	60	2 ³ / ₈
60	118	4 ³ / ₈	65	2 ¹ / ₂
75	125	4 ⁷ / ₈	70	2 ³ / ₄
100	138	5 ³ / ₈	75	2 ¹⁵ / ₁₆
150	175	6 ¹ / ₂	90	3 ¹ / ₂
200	200	7 ¹ / ₂	110	4 ⁵ / ₁₆
300	267	10 ¹ / ₂	130	5 ¹ / ₂
500	300	11 ¹ / ₂	150	5 ¹ / ₂

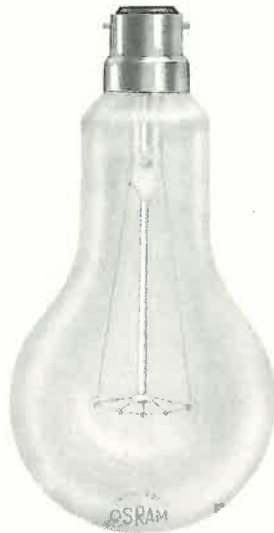
† 100 to 130 volts only.

* These lamps are made with the coiled-coil filament (see pages 5 and 11).



**ELECTRIC LAMPS
FOR GENERAL LIGHTING SERVICE**

GROUP I.



150 watts
OSRAM Daylight Lamp.

DAYLIGHT LAMPS (GASFILLED)

OSRAM Daylight lamps have special blue glass bulbs which produce a light corresponding closely to a north sky light, making them very useful for lighting purposes where colour discrimination is important.

When substituting Daylight lamps for Standard lamps, it generally will be found necessary to use lamps of a higher wattage to compensate for the light absorbed by the blue glass.

Standard watts	Standard cap	VOLTAGE RANGES AND PRICE PER LAMP	
		100 to 130 Volts and 200 to 260 Volts	
60	B.C.	s. 2	d. 3
100	B.C.	3	6
150	B.C.	4	6
300	G.E.S.	12	9

For EXTRAS see page 10.

The dimensions of these lamps are the same as those of the corresponding clear lamps given on pages 13 and 15.

TURN DOWN
STRIPLITE AND TUBULAR LAMPS
ARCHITECTURAL
G.E.C. LAMPS
TRACTION
OSGLIM AND Robertson
Projector
AUTO
FLASH-LIGHT
MINERS AND DECORATIVE OUTFITS
ULTRA VIOLET
OSIRA



ELECTRIC LAMPS FOR GENERAL LIGHTING SERVICE

GROUP I.



25 watts
OSRAM Vacuum Lamp.

CLEAR VACUUM LAMPS

While for certain types of fittings and lighting service clear lamps can be used for all General Lighting purposes the PEARL OSRAM Lamps shown on pages 11 and 12 are recommended in preference.

Standard watts	Type of filament	Standard cap	VOLTAGE RANGES AND PRICE PER LAMP			
			100 to 130 Volts		200 to 260 Volts	
15 25 40	Coil Coil Cage	} B.C. {	s.	d.	s.	d.
			1	9	1	9
			—	—	—	—

CAPS: Edison screw caps are fitted if required without extra charge.
For Extras see page 10.

DIMENSIONS AND LIGHT OUTPUT.

Standard watts	Voltage ranges	Approx. lumens	Length		Bulb diameter		Cap contact to filament centre		
			Tolerance $\pm 3\frac{1}{4}$ m/m		Tolerance ± 1 m/m		Tolerance ± 3 m/m		
15	100-130 200-260	140 118	} 92.5	m/m	ins.	m/m	ins.	m/m	ins.
					3 $\frac{1}{8}$	55	2 $\frac{1}{8}$	65	2 $\frac{1}{2}$
25	200-260	215	} 136.5	100	3 $\frac{1}{8}$	60	2 $\frac{1}{8}$	70	2 $\frac{1}{2}$
40	100-130 200-260	372 348			5 $\frac{1}{8}$	62	2 $\frac{1}{4}$	—	—



ELECTRIC LAMPS
FOR SPECIAL LIGHTING SERVICE

GROUP I.



OSRAM OPAL
Turn-down Lamp.

OSRAM TURN-DOWN LAMPS
(VACUUM)

OSRAM Turn-Down Lamps are made to meet the many cases where it is an advantage to be able to regulate the light in a room—such as in bedrooms, sick rooms, night nurseries, etc.

They have two filaments, the brighter of which consumes 25 watts, and by simply pulling one or other of the switch cords the light can be increased or decreased as desired.

The bulbs are made of opal glass, which diffuses the light and produces a restful light absolutely free from glare.

Maximum Watts	Cap	Finish	Approx. Dimensions				VOLTAGE RANGES & PRICE PER LAMP	
			Length		Diameter		100-130 & 200-260 volts	
25 & 4	B.C.	Opal	m/m	ins.	m/m	ins.	s.	d.
			105	4 $\frac{1}{8}$	60	2 $\frac{3}{8}$	4	3

TURN
DOWN
LAMPS
STRIP-LITE
AND
TUBULAR
LAMPS
ARCHITECTURAL
LAMPS
G.E.C.
LAMPS
TRACTION
LAMP
OSGLIM
AND
ROBERTSON
PROJECTOR
LAMP
AUTO
LAMP
FLASH-
LIGHT
LAMP
MINERS
AND
DECORATIVE
LAMP
LAMP
ULTRA
VIOLET
LAMP
OSIRA



ELECTRIC LAMPS
FOR SPECIAL LIGHTING SERVICE.

GROUP I.



PEARL OSRAM (Gasfilled).
Photo-Flood Lamp.

PEARL OSRAM PHOTO-FLOOD LAMPS (GASFILLED)
SERIES "S" and "N.N."

The filaments of these lamps run at an extremely high temperature, which results in the production of a light especially suitable for indoor photography. The series "S" lamp will enable approximately 2,000 feet of ciné film to be exposed, or about 300 ordinary photographs to be taken; this represents a life of 2 hours, compared with 6 hours for the "NN" type lamp.

The smaller lamp is fitted with a standard bayonet cap and is no larger than the 60-watt Pearl OSRAM lamp, so that it can be used in any ordinary electric light fitting. A safety fuse is incorporated in the caps for protection in the case of accidental breakage.

Standard Voltages	Nominal watts	Series	Standard cap	Dimensions				PRICE PER LAMP	
				Length		Diameter		s.	d.
				Tolerance ± 3.5 m/m		Tolerance ± 1 m/m			
100-110				m/m	ins.	m/m	ins.		
200-210									
220-230	275	"S"	B.C.	117.5	4 $\frac{1}{2}$	65	2 $\frac{1}{2}$	2	6
240-250	500	"NN"	E.S.	137.5	5 $\frac{3}{8}$	75	3	6	0

OSRAM PHOTOGRAPHIC LAMPS (GASFILLED)
SERIES "B"

These are internally frosted, high efficiency lamps made on similar lines to the Photo-Flood Lamps described above. To meet the exacting requirements of professional photographers, for which they are especially suitable, they give a powerful light and last for approximately 100 hours. For best results these lamps should be used in conjunction with a reflector.

Voltage ranges	Standard watts	Standard cap	Dimensions				PRICE PER LAMP	
			Length		Diameter		£	s. d.
			Tolerance ± 4.5 m/m		Tolerance ± 1.5 m/m			
100-130 and 200-260 volts	500	E.S.	m/m	ins.	m/m	ins.		
			175	6 $\frac{1}{2}$	100	3 $\frac{1}{2}$	1	00

Particulars of special reflectors for use with these lamps will be sent on application.



ELECTRIC LAMPS
FOR SPECIAL LIGHTING SERVICE
GROUP I.

STRIPLITE LAMPS



OSRAM Striplite Lamps have spiralized tungsten filaments burning in a vacuum. The tubes are lighted uniformly throughout their length.

Standard watts	Length		Diameter		VOLTAGE RANGES and PRICE PER LAMP 100-130, 200-260 volts			
	Tolerance ± 1 m/m		Tolerance ± 1 m/m		Clear		Colour sprayed	
	m/m	ins.	m/m	ins.	s.	d.	s.	d.
30	221	8 $\frac{1}{8}$	25	1	4	0	4	9
	284	11 $\frac{1}{8}$	25	1				
60	284	11 $\frac{1}{8}$	25	1	4	9	5	9
100	309	12 $\frac{1}{8}$	46	1 $\frac{3}{8}$	6	9	7	6

STANDARD CAPS: Centre Contact. The 60 and 100-watt sizes can be supplied if required with clip contact caps at 3d. per lamp extra.

STANDARD COLOURS: Red, Orange, Yellow, Green, Blue, Flame, Pink, White.

For prices and particulars of special trough reflectors, for use with OSRAM "Striplite" lamps, see G.E.C. Catalogue, Fittings Accessories Section F (2).

TUBULAR LAMPS



OPAL TUBULAR LAMPS are useful for positions where it is not practicable to employ a double capped lamp.

STANDARD COLOURS SPRAYED ON OPAL:— Blue, Green, Yellow, Amber, Orange, Flame and Pink.



OSRAM Clear Tubular Lamp.
(Approximately $\frac{1}{3}$ full size)

OSRAM Opal Tubular Lamp.
(Approximately $\frac{1}{3}$ full size)

Standard Watts.	Standard Cap.	Length ± 3 m/m		Diameter ± 1 m/m		Voltage Range and Price per Lamp 100-130 volts and 200-260 volts					
		m/m	in.	m/m	in.	Clear		White Opal		Coloured	
						s.	d.	s.	d.	s.	d.
25	*S.B.C.	85	3 $\frac{3}{8}$	25	1	3	0	—	—	—	—
40 60	†B.C.	302	11 $\frac{1}{8}$	38	1 $\frac{1}{2}$	—	—	5	0	5	6

* B.C. or S.E.S. at same price if specially ordered.

† E.S. at same price if specially ordered.

STRIPLITE
AND
TUBULAR
LAMPS

ARCHITECTURAL

G.E.C.
LAMPS

TRACTION

OSGLIM
AND
Robertson

Projector

AUTO

FLASH-LIGHT

MINERS
AND
DECORATIVE

ULTRA
VIOLET

OSIRA



ELECTRIC LAMPS FOR SPECIAL LIGHTING SERVICE

GROUP I.

ARCHITECTURAL LAMPS

100-130 and 200-260 volts.



STANDARD STRAIGHT LENGTHS AND PRICE PER LAMP

Length		Diameter 30 m/m (1 1/8 ins.)					Diameter 40 m/m (1 1/2 ins.)				
m/m	Ins.	Watts	Opal	Coloured Opal	Colour Sprayed	Watts	Opal	Coloured Opal	† Colour Sprayed		
			£ s. d.	£ s. d.	£ s. d.		£ s. d.	£ s. d.	£ s. d.		
305	12	35	10 6	12 0	11 6	60	14 9	16 3	16 0		
500	19 1/2	60	14 6	16 9	15 6	100	1 0 3	1 2 3	1 1 9		
610	24	75	16 0	18 6	17 0	120	1 2 6	1 4 9	1 3 9		
*915	36	110	1 1 0	1 4 6	1 3 0	180	1 9 6	1 13 6	1 12 6		
*1220	48	150	1 5 6	1 9 3	1 7 6	240	1 15 9	1 19 3	1 18 6		

* 200-260 volts only.

† Standard colours: Same as for Striplite Lamps on page 23.

STANDARD CURVES AND PRICE PER LAMP

	Diameter 30 m/m (1 1/8 ins.)					Diameter 40 m/m (1 1/2 ins.)				
	Watts	Opal	Coloured Opal	Colour Sprayed	Watts	Opal	Coloured Opal	Colour Sprayed		
		£ s. d.	£ s. d.	£ s. d.		£ s. d.	£ s. d.	£ s. d.		
Radius 25" circle	60	1 0 0	1 3 0	1 2 0	100	1 8 0	1 10 9	1 10 9		
Radius 12 1/2" circle										
Radius 6 1/2" circle										
Right angle bend	60	1 3 6	1 7 0	1 5 6	100	1 13 0	1 16 3	1 15 9		

For Standard Curves the overall length measured along the centre line of the lamp is 500 m/m (19 1/2 in.).
COLOURED OPAL STANDARD COLOURS: Red, Pink, Orange, Yellow, Green and White.

STANDARD CAPS, round peg type. Flat-sided caps, will also be supplied without extra charge.

PRICES FOR OTHER LENGTHS AND CURVES ON APPLICATION.

Maximum length 48 inches.

Lamps exceeding 24 inches in length are only available in 200-260 volts.

ALPHABETICAL LAMPS FOR WORD AND SIGN BUILDING

The introduction of two standard size range of letters (12in. and 20in.) greatly facilitates the creation of attractive signs in white or coloured tubing at reasonable cost. Simplicity of wiring and installation, as well as ease of maintenance, are features which weigh heavily in favour of this type of lighting.

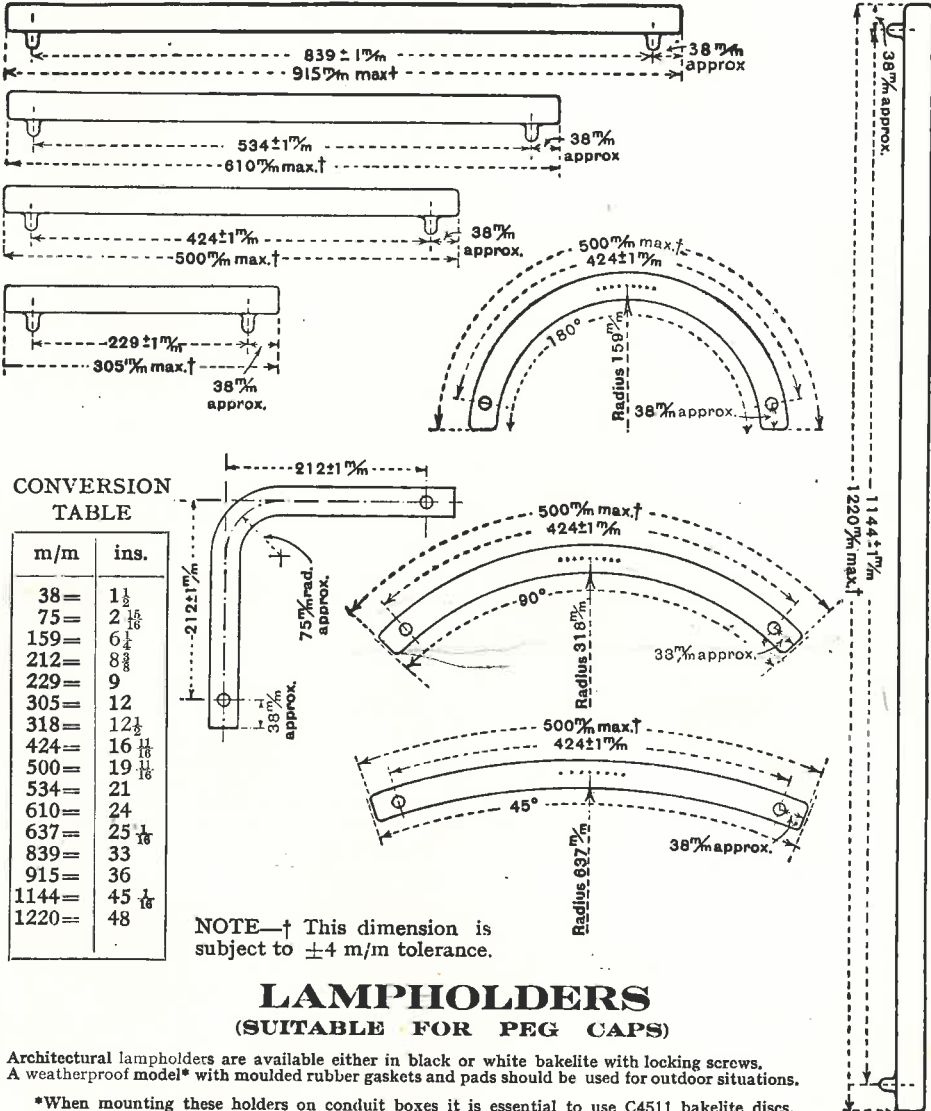
Prices of the component parts of each letter are given in a separate OSRAM Catalogue No. OS 7943.

When ordering replacement parts it is essential to quote the catalogue number of the lamps. Standard metal letters for signs are described in this catalogue.



ARCHITECTURAL LAMPS

DIMENSIONS OF STANDARD TUBES WITH PEG TYPE CAPS



CONVERSION TABLE

m/m	ins.
38 =	1 1/2
75 =	2 1/16
159 =	6 1/8
212 =	8 3/8
229 =	9
305 =	12
318 =	12 1/2
424 =	16 11/16
500 =	19 11/16
534 =	21
610 =	24
637 =	25 1/8
839 =	33
915 =	36
1144 =	45 1/8
1220 =	48

NOTE—† This dimension is subject to ±4 m/m tolerance.

LAMPHOLDERS (SUITABLE FOR PEG CAPS)

Architectural lampholders are available either in black or white bakelite with locking screws. A weatherproof model* with moulded rubber gaskets and pads should be used for outdoor situations.

*When mounting these holders on conduit boxes it is essential to use C4511 bakelite discs.

Catalogue No.	Finish	Price per pair	
		s.	d.
S 1347	Black Bakelite with Locking Screws	2	8
S 1347	White	4	0
S 1347a	Black Bakelite with weatherproof Gaskets and Pads	4	8
A 40	Black Bakelite Circular Pattern	3	0

Bakelite Discs. Catalogue No. C4511
 Drilled at 2-inch centres for use with Malleable Iron B.S. Conduit Boxes, 6/- per dozen.

† These prices are subject to a 10% increase.

ARCHITECTURAL
 G.E.C. LAMPS
 TRACTION
 OSGLIM AND Robertson
 Projector
 AUTO
 FLASH-LIGHT
 MINERS AND DECORATIVE
 ULTRA VIOLET
 OSIRA



ELECTRIC LAMPS
FOR SPECIAL LIGHTING SERVICE
GROUP I.



100 watts WHITE OSRAM
 Gasfilled Lamp.

WHITE & COLOUR SPRAYED LAMPS
(GASFILLED)

OSRAM Colour Sprayed Lamps are standard lamps, the bulbs of which have been coated with a layer of unglazed china, which produces a very highly diffused light.

Standard colours :—

- 1.—White. 2.—Red. 3.—Pink. 4.—Orange. 5.—Yellow. 6.—Green.
 7.—Blue. 8.—Flame Tint.

They will be found an ideal means of obtaining coloured light in the Home, Theatre, Cinema, Ballroom, Hotel, Restaurant, Shop Window, etc.

Standard watts	Standard cap	VOLTAGE RANGES and PRICE PER LAMP	
		100-130 and 200-260 Volts	
		s.	d.
40	B.C.	1	10
60	B.C.	1	10
100	B.C.	2	9
150	B.C.	4	0
200	E.S.	7	4
†300	G.E.S.	11	2
†500	G.E.S.	13	9
†750	G.E.S.	17	9

The 100-watt to 750-watt sizes can also be supplied bowl sprayed white if required at the same prices as above.

† These wattages are supplied in white only.

The dimensions of these lamps are the same as those of the corresponding wattages shown on pages 13 and 15.

G.E.C.

REGD. TRADE MARK.

TYPE "B" LAMPS

GROUP VIII.



The 40 watts G.E.C. Type "B" Lamp.

A single Coil Lamp of good performance manufactured specially to meet the demand where initial cost is the primary consideration.

PEARL

Volts	Watts	Cap	PRICE PER LAMP		
			s.	d.	
100, 105, 110, 115,	40	B.C.	1	0	
120, 125, 130			1	0	
200, 210,			1	6	
220, 230,			100	1	6
240, 250,					
260					



ELECTRIC LAMPS
FOR SPECIAL LIGHTING SERVICE
GROUP I.



OSRAM Traction Lamp.
 (Clear Vacuum).



PEARL OSRAM.
 Gasfilled Traction Lamp.

SERIES TRACTION LAMPS
TRAMCAR, TRAIN LIGHTING, ETC.

OSRAM Traction Lamps are specially designed to withstand the voltage fluctuations, rough usage, vibration and other severe conditions met with in traction service.

All OSRAM Traction Lamps are marked with their rated current in amperes and only those having the same current rating should be connected up to each other in series.

When ordering Traction Lamps for tram or train lighting please state: (i) maximum voltage; (ii) minimum voltage; (iii) nominal voltage; (iv) wattage of lamp; (v) number of lamps in series.

PEARL OSRAM—GASFILLED

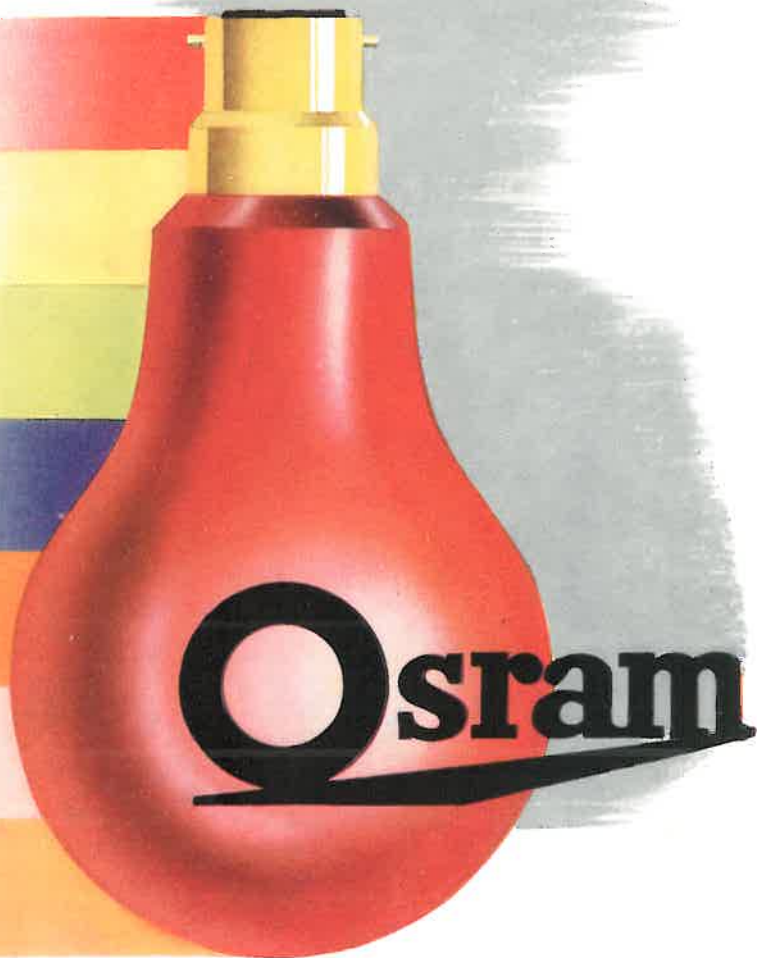
These lamps are internally frosted in the same manner as the Standard PEARL OSRAM Lamps. They give a brighter and better light than the vacuum lamps and eliminate glare.

Ampere rating	Nominal watts	Length		Diameter		Standard voltages and PRICE PER LAMP	
		Tolerance ± 3.5 m/m		Tolerance ± 1 m/m		100, 110, 120, 130 Volts	
0.35 0.52	40 60	m/m	ins.	m/m	ins.	s.	d.
		110	4 ⁵ / ₁₆				
		117.5	4 ³ / ₈	65	2 ¹ / ₂		

CLEAR VACUUM (STRAIGHT FILAMENT)

Ampere rating	Nominal watts	Length		Diameter		Standard voltages and PRICE PER LAMP	
		Tolerance ± 3.5 m/m		Tolerance ± 1 m/m		100, 110, 120, 130 Volts	
0.27 0.35	30 40	m/m	ins.	m/m	ins.	s.	d.
		110	4 ⁵ / ₁₆				

Standard Caps:—B.C. or E.S.



LAMPS FOR DECORATIVE LIGHTING

In this supplement the range of OSRAM Lamps for decorative lighting is reproduced in actual colours.

These lamps will be found to meet all requirements where purely decorative lighting is required, or where colour is needed to supplement the general scheme of illumination.

Full particulars and prices are given in the catalogue.

WHITE
 RED
 YELLOW
 GREEN
 BLUE
 ORANGE
 PINK
 FLAME



OSGLIM
 AND
 ROBERTSON

PROJECTOR

AUTO

FLASH-
 AND
 LIGHT

MINERS
 AND
 DECOR'N

ULTRA
 VIOLET

OSIRA

TRACTION



LAMPS FOR DECORATION



Osram

1 LOW VOLTAGE SIGN LAMP

clear or coloured. A miniature sign lamp for outlining detail in signs and shop facias.

2 COLOUR SPRAYED LAMP

for decorative colour lighting in the Home, Theatre, Restaurant and Ballroom.

3 CANDLE LAMP

clear or coloured, and with either plain bulb or twisted as illustrated.

4 STRIPLITE LAMP

clear or coloured for cornice, showcase and picture lighting.

5 OPAL TUBULAR LAMP

white or tinted for architectural panel lighting, showcases, wall brackets and modern style fittings.

6 or 6A ARCHITECTURAL LAMPS

opal, white or coloured, straight or curved, introduce a novel and artistic note into practically every form of indoor lighting.

7 NATURAL COLOUR GLASS LAMP

for every form of decorative lighting either in or out-of-doors.

8 GOTHIC CANDLE LAMP

flame tint as illustrated or ivory colour—an artistic alternative to the ordinary candle lamp.

9 SIGN LAMP

clear or inside colour sprayed especially made for signs and festive lighting.

10 PYGMY SIGN LAMP

clear or coloured, an exceptionally small parallel burning lamp for signs, illuminated score boards, totalisators and indicators.

Osram

TIVE LIGHTING

TRACTION

OSGLIM
AND
ROBERTSON

Projector

AUTO

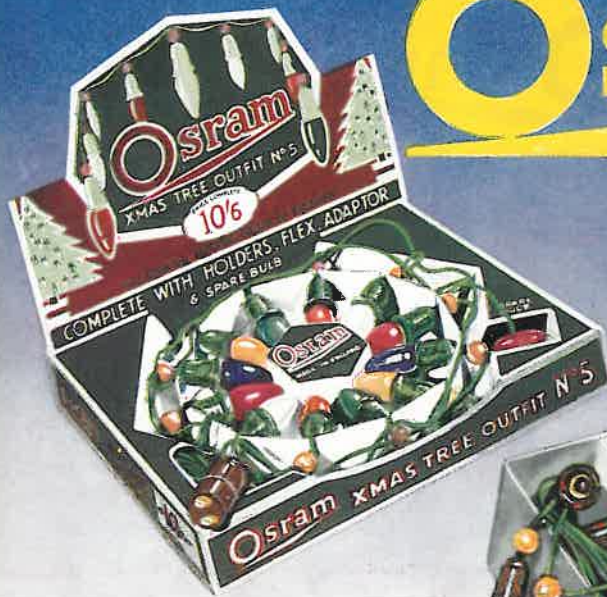
FLASH-
LIGHT

MINERS
AND
DECOR N

ULTRA
VIOLET

OSIRA

Osram



OSRAM Christmas Tree Outfit No. 5.

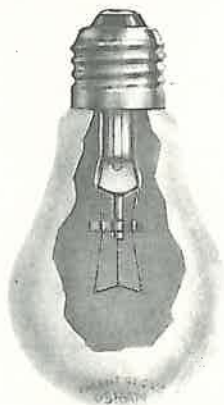


OSRAM Christmas Decoration Outfits Nos. 1 to 4.

OSRAM Nursery Rhyme Bells, 5/- per box of 1 doz., for use with OSRAM Christmas Tree Outfit No. 5.



ELECTRIC LAMPS
FOR SPECIAL LIGHTING SERVICE
GROUP I.



PEARL OSRAM
 Low Voltage, Long Series Traction Lamp.
 (Gasfilled.)

EXTRA LOW VOLTAGE LONG
SERIES TRACTION LAMPS
(GAS FILLED)

These lamps are a new departure in Traction Lamps. They are made for connection in series of 10 to 15 lamps.

The small voltage drop across each lamp enables a thicker and stronger filament to be used, so that these lamps are even more robust than the ordinary traction type.

A further advantage is that each lamp is fitted with a short-circuiting device, which only comes into action when a lamp fails, so that the rest of the series is unaffected and the burnt-out lamp can be located at once.

These lamps are only supplied with E.S. caps, and should only be used with the G.E.C. Patent short-circuiting lampholders, which enable lamps to be changed without putting out the rest of the lamps in the series.

VOLTS	Nominal watts	Length		Diam.		Standard cap	PRICE PER LAMP			
		Tolerance ±3.5 m/m		Tolerance ±1 m/m			Pearl		Clear	
		m/m	ins.	m/m	ins.	} E.S.	s.	d.	s.	d.
40 } 50 }	40	110	4 $\frac{1}{8}$	60	2 $\frac{3}{8}$		1	9	1	11
40 } 50 }	60	117.5	4 $\frac{1}{4}$	65	2 $\frac{1}{2}$					

PEARL OSRAM SHIP LAMPS

The Pearl OSRAM Lamps shown on page 12 are recommended for ship lighting. The filaments of these lamps are tempered by a special heat treatment, which makes them capable of standing up to rough service. Their size and shape are suitable for the fittings usually installed on ships. The frosted bulbs eliminate all glare—a matter of great importance in ship lighting, where lamps have to be fixed in low positions and come into the line of vision. The frosting being on the inside of the bulb, the exterior is quite smooth and easily kept clean.

TRACTION
 OSGLIM AND ROBERTSON
 Projector
 AUTO
 FLASH-LIGHT
 MINERS AND DECORIN
 ULTRA VIOLET
 OSIRA

Osglim

REGD. TRADE MARK

ELECTRIC NEON DISCHARGE LAMPS GROUP 1.



OSGLIM Lamp
(Lighting Type).
(Half size.)



OSGLIM Tubular
Switch Indicator Lamp.
(Full size.)



OSGLIM Small
Indicator Lamp
(Full size.)

These Neon discharge lamps are manufactured in a number of different types, of which those in most general use are listed below. The lighting type is specially suitable for burning in positions where a dim illumination is constantly required, and is, therefore, an ideal night light. The large indicator lamp is designed for use with domestic appliances such as cookers, where it is desirable for the indicator to give a more conspicuous light than that given by the smaller type, and for the lamp to have a full size bayonet cap. Particulars of other types will be sent on application.

Type	Standard watts	Standard cap	Approx. dimensions				* PRICE PER LAMP	
			Length		Diameter		s.	d.
			m/m	ins.	m/m	ins.		
LIGHTING	5	B.C.	125	4 $\frac{1}{2}$	56	2 $\frac{1}{2}$	3	1
LETTER							3	4
FIGURE							3	4
PHOTOGRAPHIC (with Bulb varnished Ruby)	0.5	B.C.	58	2 $\frac{1}{2}$	28	1 $\frac{1}{2}$	3	4
INDICATOR							2	6
		Small	S.B.C.	53	2 $\frac{1}{4}$	18	$\frac{1}{2}$	2

* Voltages :—200/220, 230/240, 250/260 Volts.

TUBULAR SWITCH INDICATOR LAMPS

These small indicator lamps are made for incorporation in switches, the lamp being wired so that it glows when the switch is in the "off" position. This makes it easy to find the switch in the dark, and is specially convenient in hotels, boarding houses, etc., where the rooms are chiefly used by people who are not familiar with the positions of the switches.

Standard voltages	Standard watts	Standard cap	Approx. dimensions				PRICE PER LAMP			
			Length		Diameter		Clear		Sprayed	
			m/m	ins.	m/m	ins.	s.	d.	s.	d.
200/220 230/240 250	0.2	S.E.S.	28	1 $\frac{1}{2}$	12	$\frac{1}{2}$	2	0	2	1

CAUTION—These Switch lamps must only be used in series with approximately 200,000 ohms resistance.

ROBERTSON ELECTRIC LAMPS

CARBON FILAMENT

GROUP I.



ROBERTSON Lamp.



ROBERTSON
Flame-colour
Radiator Lamp.

LIGHTING TYPE.

Nominal candle power	Standard cap	Approx. total watts		Maximum dimensions				Voltage Ranges and PRICE PER LAMP	
		Voltage range		Length		Diam.		100-130 and 200-260 volts	
		100-130 Volts	200-260 Volts						
8 16 32	} B.C. {	30	36	m/m	ins.	m/m	ins.	s.	d.
		56	66	} 110		60	2 $\frac{3}{16}$	1	6
		115	136	} 117.5		65	2 $\frac{9}{16}$	1	9

RADIATOR LAMPS

(VERTICAL PATTERN)

Robertson radiator lamps are supplied with flame-coloured bulbs, which give a red glow very similar to that of a coal fire, and create an atmosphere of cosiness, comfort and warmth.

Standard watts	Standard cap.	Approx. dimensions				Voltage range and PRICE PER LAMP	
		Length		Diameter		*100-250 Volts	
250	B.C.	m/m	ins.	m/m	ins.	s.	d.
		285	11 $\frac{1}{2}$	57	2 $\frac{1}{2}$	4	3

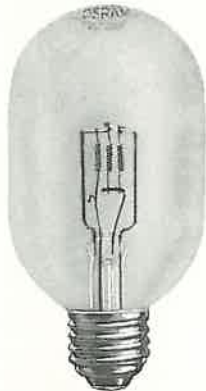
Large bayonet caps (1 in. diameter) can be fitted if desired without extra charge.

* STANDARD VOLTAGES: 100/110, 115/125, 200/220, 230/250.



ELECTRIC LAMPS FOR SPECIAL LIGHTING SERVICE

GROUP I.



A full range of
Osram Projector
Lamps is incor-
porated in Osram
Projector Lamp
Catalogue O.S.
7906.



250 watts (Class A.1) OSRAM
Gasfilled Projector Lamp.
(Illustration approximately half full size.)

100 watts (Class A.1) OSRAM
Gasfilled Projector Lamp.
(Illustration approximately half full size.)

GASFILLED PROJECTOR LAMPS

Specially designed for accurate projection work.

CLASS A.1 TUBULAR. GRID FILAMENT. VERTICAL BURNING

These lamps have grid filaments and must be burned vertically, cap below. Tilting the lamp results in reduction of burning life. Suitable for OPTICAL LANTERNS, SPOTLIGHTS, PHOTOGRAPHIC ENLARGING, ADVERTISING PROJECTORS, HOME CINEMAS, ETC.

Voltage	Watts	Dimensions m/m			Approx. area of filament	Standard Cap	PRICE PER LAMP		
		Overall length ± 10	Diam. ± 2	Light centre length ± 5			£	s.	d.
30	100	135	32	75	6 x 6	E.S.	1	10	9
	250	135	64	75	8 x 8	E.S.	1	2	6
	600	230	64	120	13 x 12	G.E.S.	1	15	0
	900	230	64	120	14 x 12	G.E.S.	1	15	0
50	200	135	32	75	6 x 7	E.S.	1	1	0
	250	135	32	75	7 x 8	E.S.	1	1	0
	500	135	64	75	14 x 8	E.S. or G.E.S.	1	6	0
100	300	135	32	55.6	11 x 10	Prefocus	1	6	0
110	500	135	32	55.6	*9 x 9	Prefocus	1	17	6
110	750	135	38	55	*10 x 10	Prefocus	2	2	6
100 and 110	100	135	32 or 25	75	10 x 9	B.C. or E.S.	1	10	9
	250	135		55.6	11 x 10	Prefocus	1	1	0
	250	135	64	75	11 x 10	E.S.	1	0	0
	500	135	64	75	13 x 16	E.S. or G.E.S.	1	4	0
	1000	230	64	120	16 x 15	G.E.S.	1	10	0
200 to 260	100	135	32	75	8 x 13	B.C. or E.S.	1	10	9
	250	135	64	75	11 x 13	E.S.	1	0	0
	500	135	64	75	15 x 18	E.S. or G.E.S.	1	4	0
	1000	230	64	120	17 x 20	G.E.S.	1	10	0

* Biplane filament.

Prefocus Caps where not standard can be supplied at 1/- extra.

CAUTION.—It is essential for projector lamps to be used in the position for which they are designed, and for the apparatus in which they are used to be well ventilated, otherwise their life may be seriously reduced.



ELECTRIC LAMPS
FOR SPECIAL LIGHTING SERVICE
GROUP I.



100 watts (Class A.2) OSRAM
 Gasfilled Projector Lamp.



1,500 watts (Class A.2) OSRAM
 Gasfilled Projector Lamp.

GASFILLED PROJECTOR LAMPS

Specially designed for accurate projection work.

CLASS A.2. ROUND BULB. GRID FILAMENT. VERTICAL BURNING, CAP DOWN.

The round bulb causes a small reduction in optical efficiency by keeping the reflector further away from the filament than in Class A.1, listed on page 36. These lamps may be tilted slightly without reducing their life. Suitable for STAGE LIMES, SPOTLIGHTS, ETC.

Voltage	Watts	Dimensions m/m			Approx. area of filament	Cap	PRICE PER LAMP			
		Overall length ± 10	Diam. ± 2	Light centre length ± 5			£	s.	d.	
20	80	m/m 80	m/m 60	m/m 30	m/m $\dagger 9$	S.B.C.	£	8	6	
	100	115	75	80	10 x 13	E.S.	1	10	9	
	250	160	90	115	11 x 10	E.S.	1	0	0	
	100 and 110	500	250	120	190	13 x 16	G.E.S.	1	7	6
		1000	300	150	220	17 x 23	G.E.S.	1	18	0
		1500	330	170	250	22 x 32	G.E.S.	2	12	6
	2000	350	200	250	26 x 34	G.E.S.	3	16	0	
	3000	395	240	275	30 x 35	G.E.S.	5	5	0	
	200 to 260	100	115	75	80	8 x 18	E.S.	1	10	9
250		160	90	115	11 x 13	E.S.	1	0	0	
500		250	120	190	15 x 18	G.E.S.	1	7	6	
1000		300	150	220	20 x 36	G.E.S.	1	18	0	
1500		330	170	250	26 x 38	G.E.S.	2	15	0	
2000		350	200	250	22 x 35	G.E.S.	4	6	0	
3000	395	240	275	30 x 42	G.E.S.	5	15	0		

\dagger Line filament.

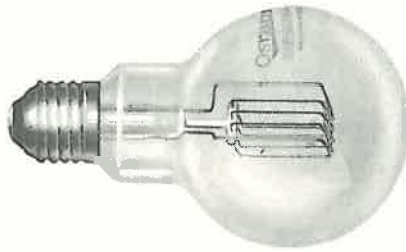
CAUTION.—It is essential for projector lamps to be used in the position for which they are designed, and for the apparatus in which they are used to be well ventilated, otherwise their life may be seriously reduced.

Projector
 AUTO
 FLASH-LIGHT
 MINERS AND DECOR'N OUTFITS
 ULTRA VIOLET
 OSIRA



ELECTRIC LAMPS FOR SPECIAL LIGHTING SERVICE

GROUP I.



100 watts (Class A.3) OSRAM
Gasfilled Projector Lamp.

GASFILLED PROJECTOR LAMPS

CLASS A.3.

ROUND BULB. GRID FILAMENT. HORIZONTAL BURNING.

Similar to Class A.2, but designed for horizontal burning. Suitable for Spotlights, Stage Limes, Medical Examination Tubes, Advertising Projectors, etc.

Voltage	Watts	Dimensions m/m			Approx. area of filament	Cap	PRICE PER LAMP		
		Overall length ± 10	Diam. ± 2	Light centre length ± 5			£	s.	d.
100 and 110	100	m/m	m/m	m/m	m/m	E.S.	£	s.	d.
	250	115	75	95	10 × 15	E.S.	1	0	9
	500	160	90	120	13 × 13	G.E.S.	1	7	6
	1000	250	120	205	15 × 18	G.E.S.	1	18	0
	1500	300	150	240	17 × 23	G.E.S.	2	12	6
		335	170	270	22 × 32	G.E.S.			
200 to 260	100	115	75	95	10 × 13	E.S.	1	0	9
	250	160	90	120	14 × 15	E.S.	1	0	0
	500	250	120	205	20 × 15	G.E.S.	1	7	6
	1000	300	150	240	20 × 36	G.E.S.	1	18	0
	1500	335	170	270	26 × 38	G.E.S.	2	15	0

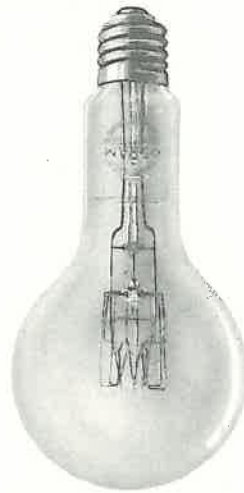
Ventilation.—Owing to concentration of filament and small size of bulb, it is important that the lantern should be ventilated, otherwise the life of the lamp may be seriously reduced.



ELECTRIC LAMPS
FOR SPECIAL LIGHTING SERVICE
GROUP I.



250 watts (Class B.1) OSRAM
 Gasfilled Projector Lamp.
*(Illustration approximately one-third
 full size.)*



500 watts (Class B.2) OSRAM
 Projector Lamp.
*(Illustration approximately one-quarter
 full size.)*

GASFILLED PROJECTOR LAMPS
CLASS B1.

ROUND BULB. BUNCH FILAMENT. FLOODLIGHTING TYPE.

These lamps may be used at any angle except within 45° of vertical (cap upwards). They are suitable for floodlighting and also for types of theatre spotlights in which ability to withstand rough usage is more important than high optical efficiency.

Voltage	Watts	Dimensions m/m			Approx. area of filament	Cap	PRICE PER LAMP	
		Overall Length ±10	Diam. ±2	Light centre length ±5			£	s. d.
100 to 130	100	130	80	75	10×11	E.S.	9	0
	250	122	95	75	8×11	E.S.	17	6
	500	190	130	115	11×14	G.E.S.	1	3 0
	1000	190	130	115	18×23	G.E.S.	1	10 0
200 to 260	100	130	80	75	10×10	E.S.	9	0
	250	122	95	75	11×10	E.S.	17	6
	500	190	130	115	15×15	G.E.S.	1	3 0
	1000	190	130	115	20×25	G.E.S.	1	10 0

CLASS B2.

STANDARD GENERAL SERVICE BULB. BUNCH FILAMENT.

These Lamps can be used in any position.

200 to 260	500 to 1000	267±8 300±9	130±1.5 150±1.5	202±7 225±8	15×20 25×25	G.E.S. G.E.S.	1 3 0 1 10 0
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AUTO
 FLASH-LIGHT
 MINERS AND DECORATIVE OUTLINES
 ULTRA VIOLET
 OSRAM

Osram

**ELECTRIC LAMPS
FOR SPECIAL LIGHTING SERVICE
GROUP I.**

GASFILLED PROJECTOR LAMPS



500 watts (Class E) OSRAM Gasfilled
Epidiastroscope Lamp.
*(Illustration approximately one-third
full size).*



24 watts (Class F)
OSRAM Gasfilled Projector Lamp.

CLASS E. ROUND BULB. GRID FILAMENT. EPIDIASCOPE TYPE.

This class is specially designed for EPIDIASCOPE apparatus. It is suitable also for spotlight and shop window projectors, which have to be rotated through wide angles. They can be used safely in any position up to 45° from vertical cap downwards.

Voltage	Watts	Dimensions m/m			Approx. area of filament	Cap	PRICE PER LAMP		
		Overall length ± 10	Diam. ± 2	Light centre length ± 5			£	s.	d.
100 and 110	500	m/m 135	m/m 100	m/m 85	m/m 13×16	E.S.	1	10	0
200 to 260		135	100	85	15×18	E.S.	1	10	0

CLASS F. EXTRA LOW VOLTAGE. ROUND BULB

These lamps, though of low wattage, give a very intense, concentrated light. They are specially suitable for all purposes where small dimensions in the apparatus employed is of primary importance. The 8 and 24 watts lamps have straight filaments, the 48 and 100 watts grid filaments. The 48 and 100 watts sizes are designed for vertical burning.

Voltage	Watts	Dimensions m/m			Approx. area of filament	Cap	PRICE PER LAMP	
		Max. Overall length ± 10	Diam. ± 2	Light centre length ± 5			s.	d.
4	8	m/m 60	m/m 38	m/m .50	m/m *4	S.E.S.	3	9
6	24	60	38	50	*4	E.S.	4	3
12	24	60	38	50	*6	S.B.C.	3	9
12	48	70	50	40	4×3	E.S.	3	9
†12	100	135	32	75	5×6	E.S.	10	9

* Filament length.

† Tubular bulb.



ELECTRIC LAMPS
FOR SPECIAL LIGHTING SERVICE
GROUP I.



32 watts (Class G)
 OSRAM
 Exciter Lamp (Gasfilled).

GASFILLED PROJECTOR LAMPS

CLASS G. EXCITER LAMPS FOR SOUND FILM APPARATUS.

These lamps are intended for use in conjunction with Photo-cells for sound reproduction and similar purposes.

Of tubular bulb shape they are designed for burning vertically, cap down, and it is essential they should be used in this position only.

Owing to concentration of filament and small size of bulb it is important that the lantern in which this lamp is used should be ventilated. Otherwise the life of the lamp may be seriously reduced.

Code numbers	Voltage	Watts	Apparatus for which suitable	Cap	PRICE PER LAMP	
					s.	d.
8450	8	32	British Acoustic	A.S.C.C.	5	6
8456	8	32	B.T.P.	"	5	6
85450	8.5	34	—	"	6	0
105475	10	50	R.C.A.	A.S.C.C.	7	6
1075475	10	75	R.C.A.	"	7	6

DIMENSIONS.

Code numbers	Length	Diameter	Filament centre to cap central contact plate
	Tolerance ± 2 m/m	Tolerance ± 1 m/m	Tolerance ± 1.5 m/m
	m/m	m/m	m/m
8450	76	26	50
8456	76	26	56
85450	76	26	56
105475	76	26	48.5
1075475	76	26	48.5

AUTO

FLASH-LIGHT

MINERS AND DECORATIVE OUTLETS

ULTRA VIOLET

OSRAM



ELECTRIC LAMPS

FOR SPECIAL LIGHTING SERVICE

GROUP I.

OSRAM PROJECTOR LAMPS

Recommended for use in some of the most widely used projectors.

Apparatus	Type of OSRAM Projector Lamp recommended.
A	
Pattern 45 "Minature" Spotlight	250w. Class B.1 round bulb with E.S. cap.
Pattern 44 "Baby" Spotlight	500w. Class B.1 round bulb with G.E.S. cap.
Pattern 43 Focus Lantern	1,000w. Class B.1 round bulb with G.E.S. cap.
Pattern 50 "Pageant" Lantern	1,000w. Class A.1 tubular or Class B.1 with G.E.S. cap.
Pattern 43a "Batten" Focus Lantern	1,000w. Class A.1 tubular or Class B.1 with G.E.S. cap.
Pattern 51 "Optical Effect" Lantern	1,000w. Class A.1 tubular with G.E.S. cap.
Pattern 27 "Float Baby" Spot	100w. or 250w. Class B.1 round bulb with E.S. cap.
Pattern 52 2,000w. Focus Lantern	2,000w. round bulb Cinema Studio Spotlight lamp with G.E.S. cap.
Pattern 73 Mirror Spot	1,000w. Class A.1 or B.1 projector lamp with G.E.S. cap.
Pattern 41 Photo. Flood.	1,000w. Class A.1 projector lamp with G.E.S. cap.
Pattern 46B Photo Spot	2,000w. cinema studio projector lamp with G.E.S. cap.
B	
Optical Lanterns (all types)	Class A.1 and A.3 with E.S. cap.
Focuslite Outfits (all types)	Class A.1 and A.3 with E.S. cap.
No. 51 Self-contained Mirror Bowl	500w. Class A.1 with E.S. cap.
No. 54 Spotlight	100w. Class A.3 with E.S. cap.
No. 55 Spotlight	250w. Class A.1 with E.S. cap.
No. 58 Spotlight	500w. Class A.1 with E.S. cap.
No. 59 Spotlight	1,000w. Class A.1 with G.E.S. cap.
No. 61 Cabaret Flood	500w. General Service with G.E.S. cap.
No. 150 Floodlight	300w. to 500w. General Service with G.E.S. cap.
No. 63 Searchlight	500w. Class A.1 with E.S. cap.
No. 157/161 Floodlight	500w. Photographic with E.S. cap.
C	
Monolite Lantern Outfits	250w. or 500w. Class A.1 tubular projector lamp with E.S. cap.
"Alpha" or SS 100 Projector	60v. 100w. Class A.1 projector lamp with E.S. cap.
"Silent Sixteen" SS 180 Projector	60v. 180w. Class A.1 projector lamp with E.S. cap.
"Super Cine" SS 250 Projector	50v. 250w. Class A.1 projector lamp with prefocus cap.
Ensign "50" Projector	60v. 50w. Class A.1 tubular projector lamp with small bayonet cap.
Ensign "100B" Projector	100v. 100w. Class A.1 projector lamp with prefocus cap and 25 mm. bulb.
Ensign "300B" Projector	100v. 300w. Class A.1 projector lamp with prefocus cap.
"Optiscope" Lantern No. 6	250w. or 500w. Class A.1 tubular projector lamp, silver backed, with E.S. cap.
"Optiscope" Lantern No. 9	250w. or 500w. Class A.1 tubular projector lamp, silver backed, with E.S. cap.
D	
Kodascope "A"	50v. 200w. or 250w. Class A.1 tubular with prefocus or E.S. cap.
Kodascope "B"	50v. 200w. or 250w. Class A.1 tubular with prefocus cap.
Kodascope "C"	100v. 100w. Class A.1 tubular with prefocus cap and 25 m/m bulb.
Kodascope "D" and "E"	100v. 300w. Class A.1 projector lamp with prefocus cap.
Kodascope "L"	100v. 300w., 110v. 500w., 110v. 750w. Class A.1 with prefocus cap.
Kodatoy	115v. 50w. Class A.1 projector lamp with A.S.C.C. cap.
Kodalite "A" and "B"	500w. Class A.1 with prefocus cap.
Kodalite "E"	500w. photographic lamp with E.S. cap.
Kodak Spotlite	500w. Class A.1 or Class E with E.S. cap.
E	
Pathescope "B" Projector	110v. 200w. Class A.1 projector lamp with special "Pathe" cap.
Pathescope "Imp"	19v. 10w. Type C small tubular projector lamp.
Pathescope "Ace"	16v. 8w. round bulb projector lamp.
Pathescope "Ace"	18v. 9w. round bulb projector lamp.
Pathescope "Rex"	16v. 128w. round bulb projector lamp.

A Manufactured and supplied by The Strand Electric & Engineering Co., Ltd.

B Manufactured and supplied by Cinema Traders, Ltd.

C Manufactured and supplied by Ensign, Ltd.

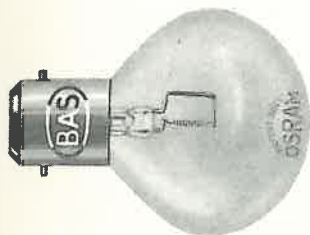
D Manufactured and supplied by Kodak, Ltd.

E Manufactured and supplied by Pathescope, Ltd.

For prices see pages 36, 37, 38, 39 & 40.



AUTOMOBILE LAMPS GROUP II.



OSRAM **(BAS)** Type
Headlight Lamp
(Gasfilled).



OSRAM **(BAS)** Type
Side, Tail and Dash Lamp
(Gasfilled).

BAS TYPES

Standardised in accordance with Specification No. 6R of the Society of Motor Manufacturers and Traders (I.A.E. Data Sheet 104R).

All BAS Lamps are marked **(BAS)**

HEADLIGHT (GAS FILLED)

Volts	Watts	Amps.	Diam. of bulb	BRITISH CAP			AMERICAN CAP		
				Catalogue No.	BAS No.	PRICE PER LAMP	Catalogue No.	PRICE PER LAMP	
6	12	2	m/m 38	OS 7000	BAS 1	s. d. 2 6	OS 7017	s. d. 2 7	
†6	18	3	38	OS 7002	BAS 2	2 3	OS 7018	2 4	
†12	24	2	38	OS 7010	BAS 3	2 3	—	—	
†*12	36	3	38	OS 7012	BAS 4	2 6	—	—	

* Supplied with 3-pin C.C. caps at **2/7½** each, or with Bosch type caps at **2/9** each.

† For headlight lamps with "V" filaments, see page 44.

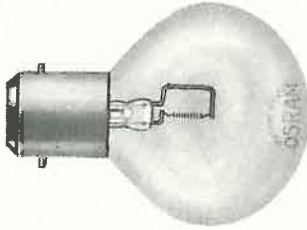
SIDE, TAIL AND DASH (GAS FILLED)

Volts	Watts	Amps.	Diam. of bulb	BRITISH CAP			AMERICAN CAP		
				Catalogue No.	BAS No.	PRICE PER LAMP	Catalogue No.	PRICE PER LAMP	
6	3	0.5	m/m 19	OS 7123	BAS 8	} 1 3 {	OS 7114	} 1 4 {	
6	6	1.0	19	OS 7144	BAS 9		OS 7184		
12	6	0.5	19	OS 7168	BAS 10		—		

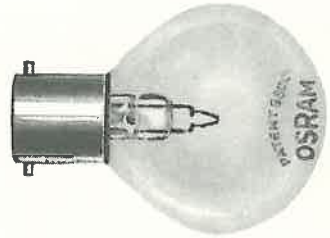
For additional sizes see pages 44 and 48.



AUTOMOBILE LAMPS GROUP II.



Headlight Lamp
(Gasfilled).



"V" Filament Headlight
Lamp (Gasfilled).

HEADLIGHT

ADDITIONAL SIZES (GASFILLED)

Volts	Watts	Amps.	Diam. of bulb	BRITISH CAP		AMERICAN CAP	
				Catalogue No.	PRICE PER LAMP	Catalogue No.	PRICE PER LAMP
4	8	2	m/m		s. d.		s. d.
†6	18	3	38	OS 4800	2 9	—	—
†6	24	3	38	OS 6180	2 9	OS 6194	2 9
†6	24 S.C.C.	4	38	OS 7004	2 3	OS 7019	2 3
†6	30	4	38	—	2 9	—	—
†6	30	5	38	OS 8000	3 1	OS 8001	—
†6	36	6	38	OS 6366	3 6	OS 6377	3 6
††12	24 S.C.C.	2	38	OS 1224	2 9	—	—
††12	36	3	38	OS 1236	3 0	—	—
†12	48	4	38	OS 7014	4 0	—	—
††12	48	4	38	—	4 6	—	—
††12	60	5	50	—	5 6	—	—
†12	60	5	50	OS 7998	4 6	—	—
BLUE BULB HEADLIGHT LAMPS (GASFILLED).							
†6	24	4	38	OS 8050	2 10	OS 8052	2 10
†12	36	3	38	OS 8051	3 2	—	—

† "V" Filament.

‡ "V" Filament, Satin etched.

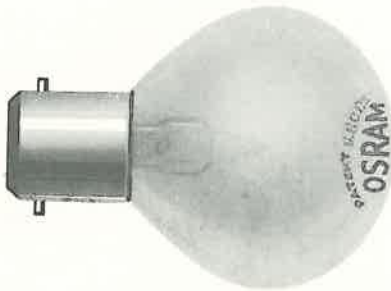
† Supplied with 3-pin C.C. caps at 2/4½ each.

* Satin etched bulbs 1½d. each extra. Bosch cap 3d. extra.

For 24V lamps see page 52.



AUTOMOBILE LAMPS GROUP II.



OSRAM Cadmium Yellow Lamp (Gasfilled).

ANTI-DAZZLE HEADLIGHT LAMPS CADMIUM YELLOW HEADLIGHT LAMPS (GAS FILLED)

These are Standard OSRAM Headlight Lamps, with natural colour yellow glass bulbs. They are especially recommended for driving in rain or fog as they reduce back glare to a minimum and are far more efficient than fog caps, screens, etc. There is no need to change them in clear weather, as in yellow light visibility is, if anything, better than in white light.

WITH S.B.C. and S.C.C. CAPS FOR BRITISH AND AMERICAN CARS.

Volts	Watts	Amps.	Diam. of bulb	Catalogue No.	Cap	PRICE PER LAMP	
6	*24	4	m/m 38	OS 7004 Y	S.B.C. or S.C.C.	s.	d.
	*36	6	38	—	S.B.C. or S.C.C.	2	10
	‡24 & 24	4 & 4	38	OS 6240 Y	S.B.C.	4	4
	†24 & 18	4 & 3	38	OS 8010 LY	Bosch	3	9
12	*36	3	38	OS 7012 Y	S.B.C. or S.C.C.	3	2
	*48	4	38	OS 7014 Y	Do.	5	0
	‡36 & 24	3 & 2	40	OS 8015 LY	Bosch	4	4
**13.5	*36	3	38	OS 136 Y	S.B.C. or S.C.C.	3	7
	‡36 & 24	3 & 2	40	OS 1336 LY	Bosch	5	0

* "V" or line Filament.

‡ Bi-focal, British Car Type.

† Lucas-Graves Type.

** For commercial vehicles and buses.

3/2

FLASH-
AND
LIGHT

MINERS
AND
DECOR'N
OUTFITS

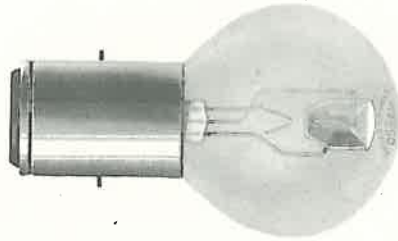
ULTRA
VIOLET

OSIRA



AUTOMOBILE LAMPS

GROUP II.



OSRAM Lucas-Graves Patent
Anti-Dazzle Headlamp (Gasfilled)
with Bosch Cap.

ANTI-DAZZLE HEADLIGHT LAMPS

(GASFILLED)

LUCAS-GRAVES PATENT

British Patent No. 210105.

Irish Free State Patent No. 210105.

These are twin filament lamps, fitted with a special form of internal reflector. When switched on to the driving filament a full, brilliant beam is obtained. When the anti-dazzle filament is switched on, the top half of the beam is cut off and the driving light is concentrated on the road.

Volts	Watts	Amps.	Diam. of bulb	Standard finish	BOSCH CAP	
					Catalogue No.	PRICE PER LAMP
6	12 & 12 18 & 18	2 & 2 3 & 3	40 40	Clear	OS 6121 L OS 8008 L	s. d. 3 6
12	24 & 24	2 & 2	40	Satin- etched Clear	OS 8014 L OS 8015 L	4 6
12	36 & 24	3 & 2	40			
6	36 & 24	6 & 4	40	Clear	—	—

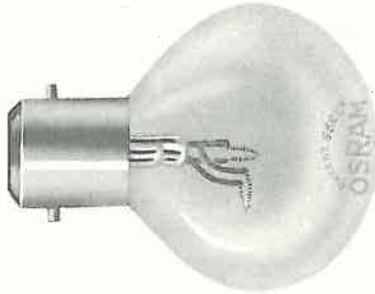


AUTOMOBILE LAMPS GROUP II.



OSRAM Bi-Focal Lamp, with corrugated bulb and American prefocus cap.

Made under British Letters Patent 425653.

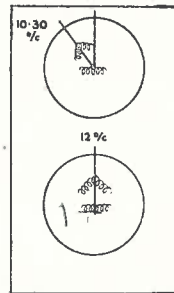


OSRAM British Motor Cycle Bi-Focal Lamp.

ANTI-DAZZLE HEADLIGHT LAMPS BI-FOCAL (GASFILLED).

These lamps have twin V-shaped filaments located one above the other. Normally only the lower filament is alight. By switching over to the upper filament the beam of light is "dipped." Bi-focal lamps are made in three types: (i) American type, with corrugated bulbs and the auxiliary filament in the 12 o'clock position. (ii) British car type with the auxiliary filament in the 10.30 position. The main or lower filament produces the normal driving beam, but the upper filament gives a beam which is both dipped and twisted towards the near side of the road. (iii) British motor cycle type, with the auxiliary filament in the 12 o'clock position, which produces a dipped beam.

Type	Volts	Watts	Amps.	Catalogue No.	PRICE PER LAMP
American. Corrugated bulb and 12 o'clock filaments.	6	+18 & 18	3 & 3	OS 7146	s. 3 d. 3
		+24 & 24	4 & 4	OS 7147	3 0
		+36 & 24	6 & 4	OS 6324	3 6
British car type anti-dazzle filament located at 10.30 position	6	24 & 24	4 & 4	OS 6240	3 0
	12	24 & 24	2 & 2	OS 1240	3 9
	12	36 & 36	3 & 3	OS 1360	5 0
British motor cycle type anti-dazzle filament located at 12 o'clock position	6	24 & 24	4 & 4	OS 6242	3 0
	6	12 & 12	2 & 2	OS 6122B	3 6



Filament Positions
End view of Bulb

† American prefocus cap—6d. extra.

FLASH-
LIGHT

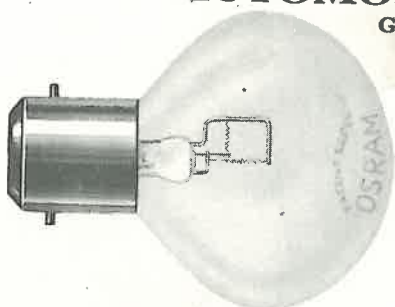
MINERS
AND
DECOR N
OUTFITS

ULTRA
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AUTOMOBILE LAMPS GROUP II



OSRAM Twin-Filament Head and Side Lamp (Gasfilled).



OSRAM combined Tail and Stoptight for American cars.

TWIN-FILAMENT COMBINED HEAD & SIDELIGHT (GASFILLED)

Volts	Watts	Amps.	Diam. of bulb	BRITISH CAP		AMERICAN CAP		
				Catalogue No.	PRICE PER LAMP	Catalogue No.	PRICE PER LAMP	
6	12 & 3	2 & .5	m/m	OS 7099	s. d.	OS 7129	s. d.	
6	18 & 3	3 & .5	38	OS 6183	} 3 6 {	OS 6184	} 3 6 {	
12	24 & 6	2 & .5	38	OS 7101		—		—
12	36 & 6	3 & .5	38	OS 7097		—		—

SIDE, TAIL & DASH ADDITIONAL SIZES.

Volts	Watts	Amps.	Diam. of bulb	BRITISH CAP		AMERICAN CAP		
				Catalogue No.	PRICE PER LAMP	Catalogue No.	PRICE PER LAMP	
3	2	0.66	m/m	—	s. d.	OS 7110	s. d.	
4	3	0.75	19	OS 7128	} 1 8 {	OS 7171	} 1 8 {	
8	4	0.5	19	OS 7125		OS 7116		
12	4	0.33	19	OS 7126		—		—

SPECIAL AMERICAN SIDE & TAIL LAMPS

Volts	Watts	Amps.	Diam.	Cat. No.	PRICE	Description
6	1	.16	m/m	OS 610	s. d.	} Miniature bayonet cap centre contact (M.C.C.)
6	2.5	.42	14	OS 625	1 6	
12	3.6	.30	12	OS 124	1 10	
6	12	2	(Flat) 25	OS 126	2 0	} Stoptight A.S.C.C. Combined tail and stoptight A.S.B.C.
6	18 & 3	3 & 5	25	OS 6185	2 6	
12	18 & 3	1.5 & .25	25	OS 1218	2 6	

For 24 volt lamps, see page 52.



AUTOMOBILE LAMPS GROUP II.



OSRAM Festoon Lamp
(8 m/m × 38 m/m).
Actual Size.



OSRAM Festoon Lamp
(11 m/m × 45 m/m).
Actual Size.

FESTOON OR TRAFFICATOR

Catalogue No.	Volts	Watts	Amps.	Max. dimensions		PRICE PER LAMP	
				Overall length	Diameter	s.	d.
OS 7268	6	6	1.0	} 45	m/m	2	0
OS 7282	12	6	0.5		m/m	11	
OS 6338	6	3	0.5	38	8	2	0
OS 638	6	6	1.0	38	11	2	0
OS 1233	12	3	0.25	38	8	2	0
OS 1238	12	6	0.5	38	11	2	0

MOTORISTS' SPARE LAMP CASES



OSRAM Motorists' Spare Lamp Case.

These cases have been designed for the convenience of motorists, who should be persuaded always to carry spare lamps on their cars. Lamps can be carried in these cases without the slightest risk of breakage.

Capacity :—Seven Lamps (2 head, 2 side or tail, 2 festoon and 1 ignition indicator lamp).

Price (without lamps) .. **3/-** each

FLASH-
LIGHT

MINERS
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DECOR'N
OUTFITS

ULTRA
VIOLET

OSIRA



AUTOMOBILE LAMPS GROUP II



OSRAM Indicator
Lamp
with 12 m/m
Flat Bulb.



OSRAM Indicator
Lamp.
With 15 m/m
Round Bulb.



OSRAM Tubular Lamp
with Bosch Cap.

COIL IGNITION INDICATOR OR WARNING LIGHTS WITH M.E.S. CAPS

Catalogue No.	Volts.	Watts	Amps.	Diam. of bulb	PRICE PER LAMP	
					s.	d.
*OS 7577	2	1.5	0.75	15 round	1	10
OS 7582	4	2	0.5	15 "	1	8
OS 618	†6	1.8	0.3	12 flat	1	10
OS 7584	6	3	0.5	15 round	1	3
OS 7588	8	1.6	0.2	15 "	1	6
OS 123	†12	3.6	0.3	12 flat	1	10
OS 7592	12	2.4	0.2	15 round	1	3
OS 7954	16	3.0	0.2	15 "	1	6

* This lamp is also suitable for some types of police and mine inspection lamps.
For 2.5 and 3.5 volt indicator lamps for use in series with a resistance—see page 53.
† Trafficator Tell-tale Lamps.

TUBULAR

Volts	Watts	Amps.	BRITISH CAP s.b.c. or s.c.c.		BOSCH CAP		FIAT CAP (Old Type)	
			Cat. No.	PRICE PER LAMP	Cat. No.	PRICE PER LAMP	Cat. No.	PRICE PER LAMP
				s.		d.		s.
12	6	0.5	OS7224	2 9	OS7032	3 0	OS7016	3 1



AUTOMOBILE LAMPS

GROUP II.



Pearl OSRAM (Interior Lighting) Motor Bus Lamp
(Gasfilled).

MOTOR BUS & COMMERCIAL VEHICLE LAMPS

For use on controlled voltage lighting sets
13.5 & 12 VOLTS
HEADLIGHT (GASFILLED).

Volts	Watts	Dia. of bulb	Type	Cap	PRICE PER LAMP	
					s.	d.
13.5	24	38 m/m	Single filament (Clear)	B.C., S.B.C. or Bosch	2	10
13.5	36	38 m/m				
13.5	36	38 m/m	Single filament Cadmium Yellow	S.B.C. or S.C.C.	3	7
13.5	36 & 24	40 m/m.	Lucas-Graves Satin-Etched	Bosch	4	0
			Lucas-Graves Cadmium Yellow	Bosch	5	0

INTERIOR LIGHTING (GASFILLED).

Volts	Watts	Amps.	Diam. of bulb	PRICE PER LAMP			
				Pearl or Clear		Opal	
				s.	d.	s.	d.
12	10	0.85	38 m/m 50 m/m	2	6	2	10
*12	12	1		38 m/m 50 m/m	2	3	2
					2	3	2
				2	1	2	4

Unless otherwise specified the standard 50 m/m bulb will be supplied.

REAR, WING and DESTINATION BOARD LAMPS (CLEAR ONLY).

Volts	Watts	Amps.	Diam. of bulb	Cat. No.	PRICE PER LAMP	
					s.	d.
12	6	0.5	25 ± 1 m/m	OS 7214	1	6

* Made to B.S.S. 555, 1935.

FLASH-
LIGHT

MINERS
AND
DECOR'N
OUTFITS

ULTRA
VIOLET

OSIRA



AUTOMOBILE LAMPS

**MOTOR
AND
TROLLEY
BUS
LAMPS**



**24-VOLT
AND
35-VOLT**

Pearl OSRAM Interior Lighting Motor and Trolley Bus Lamp
(Gasfilled)

24 VOLTS

HEADLIGHTS.

Volts	Watts	Diam. of bulb	Cap	PRICE' PER LAMP	
				Clear	
				s.	d.
24	24	38 m/m	S.B.C.	3	0
		38 m/m	S.B.C.	3	6

SIDELIGHTS

24	6	23	S.B.C. or B.C.	2	3
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INTERIOR LIGHTING.

	Watts	Diam.	Cap	Pearl or Clear		Opal	
				s.	d.	s.	d.
				24	12	50	B.C.
24	12	38	B.C.	2	9	3	1
24	15	50	B.C.	2	1	2	4
24	15	38	B.C.	2	4	2	7
24	20	50	B.C.	2	1	2	4
24	20	38	B.C.	2	4	2	7

Unless otherwise specified the standard 50 m/m bulb will be supplied.

35 VOLTS

Description	Volts	Watts	Bulb*		Cap	PRICE PER LAMP	
			Diam.	Type			
			m/m.			s.	d.
Instrument ..	35	6	23	Clear	S.B.C.	2	1
Side ..	35	6	38	Clear	B.C.	2	4
Tail or Stop ..	35	15	50	Clear	B.C.	2	2
Indicator ..	35	15	50	Daylight	B.C.	3	3
Interior ..	35	15	50	Opal	B.C.	2	6
Headlight ..	35	20	50	Clear	B.C.	3	3



ELECTRIC LAMPS
FOR SPECIAL LIGHTING SERVICE
GROUP III.



OSRAM
Tubular Radio
Panel Lamp.



OSRAM
Flashlight Lamp.
Flat Bulb. Clear.



OSRAM
Flashlight Lamp.
Flat Bulb. Half Opal.



OSRAM
Flashlight Bulb.
Focussing Type.

FLASHLIGHT LAMPS
NON-FOCUSSING TYPE.

Flat Bulb with M.E.S. Caps. (Packed in boxes of 50).

Volts	Amps.	Diameter m/m	Shape of Bulb	PRICE PER LAMP	
				Clear	Half Opal
1.25	.20	12	Flat	2½d.	—
2.0	.30	12	"	2½d.	—
2.0	.60	15	"	2½d.	—
††2.2	.25	12	"	—	2½d.
††2.2	.29	12	"	2½d.	2½d.
†2.5	.20	12	"	2½d.	2½d.
†3.5	.15	12	"	2½d.	—
3.5	.30	12 & 15	"	2½d.	2½d.

† These lamps are used for COIL IGNITION WARNING LIGHTS in series with an appropriate resistance.

FOCUSSING TYPE.
(Packed in boxes of 50).

For Spotlight Torches, Pilot Lamps for wireless receivers, Battery Cycle Lamps, etc.

Volts	Amps.	Maximum Diam. m/m	Shape of Bulb	PRICE PER LAMP
				Clear only
††2.2	.29	12	Round	} 3d.
2.5	.20	12	"	
2.5	.3	12	"	
*3.5	.15	12	"	
3.5	.3	12	"	
4.0	.3	12	"	
4.0	.5	15	"	
4.5	.3	15	"	
**6.2	.3	15	Round	
***6.5	.3	12	"	

†† Specially designed for use with small capacity 2-cell batteries.

* Recommended for fuse bulbs on wireless receivers.

** Specially suitable for pilot lamps on wireless receivers, in which case they should be used on a 4-v. circuit, and also for series burning with .2 amp. Universal valves.

*** Recommended for series burning with .3 amp. Universal valves.

TUBULAR RADIO PANEL LAMPS

Volts	Amps.	Bulb			Cap	PRICE EACH
		Diam.	Overall			
		m/m	m/m			
2	0.1	10	30	M.E.S.	9d.	
4	0.3	10	30	M.E.S.	9d.	
6.2	0.3	10	30	M.E.S.	9d.	

Special prices will be quoted for quantities of 100 lamps and over of one type and rating of any of the above lamps.

FLASH-
LIGHT

MINERS
AND
DECOR N
OUTFITS

ULTRA
VIOLET

SIRA



ELECTRIC LAMPS
FOR SPECIAL LIGHTING SERVICE
GROUP V.



OSRAM Miners' Lamp, with taper peg cap. For Acid Accumulator. 2v. & 4v. 26 m/m Bulb.
 OSRAM Lamp For Alkaline Accumulators. 2.5v. 25 m/m Bulb.
 Pearl OSRAM Miners' Lamp With S.E.S. (E14) cap. 2v. & 4v. 26 m/m Bulb.

All Osram Miners' lamps listed below have been approved by H.M. Mines Dept., after having passed exacting tests. They bear the Mines Dept. official stamp



MINERS' LAMPS
MINES DEPARTMENT CATEGORY 1. (B.S.S. 535)

For use in :—	Ratings		Dimensions		Std. Cap	LIST PRICE EACH			
	Volts	Amps.	Diam. ± 1 m/m	Ov. Length ± 2 m/m		Clear		Pearl	
(a) (c) Cap Lamp ..	2	1.0	18	31	E.10 E.14 953 E.14 Taper Peg E.14 Taper Peg	s.	d.	s.	d.
Hand Lamp ..	2.5	1.5	25	50		1	6	1	6
Hand „ ..	4	0.75	26	44 47(b)		1	6	1	6
Hand „ ..	4	1.0	28	51 54		1	6	1	6

MINES DEPARTMENT CATEGORY 2.

(a) Cap Lamp ..	2	0.85	21(Squat)	28.5 ± 1.5 (c)	E.10	1	10	—	—
(a) Cap „ ..	2	0.85	26	44	E.14	1	6	1	6
(a) Cap „ ..	2.5	.5	18	31	E.10	2	0	—	6
(a) Cap „ ..	2.5	1.0	21	34 (c)	E.10	1	10	1	10
(a) Cap „ ..	2.5	1.0	26	44	E.14	1	8	1	8
Cap „ ..	2.5	1.0	25	42	953	—	—	—	—
Cap „ ..	2.5	1.0	25	46.5	—	—	—	—	—
Cap „ ..	2.5	1.25	21	34	E.10	1	10	—	—
Hand „ ..	2.5	1.75	25	52	E.14	1	6	—	6
(a) (c) Cap Lamp ..	4	0.65	18	31	953	1	6	1	6
(a) (d) Cap „ ..	2.5	.55 & .55	25	48	E.10	1	8	—	—
(d) Cap „ ..	4	1.0 & .75	25	48	B.A.15D	2	6	2	6
(d) Cap „ ..	4	1.0 & .75	25	48	B.A.15D	2	0	2	0
Old type Hand Lamps (not approved)	2 (a)	1.0	25	46	E.14	1	5	1	5

- (a) Cap lamp bulbs will not comply with the Mines Department's regulations if used in Hewers hand lamps.
- (b) With pip.
- (c) May be supplied one third crown frosted without extra charge.
- (d) Twin filaments.

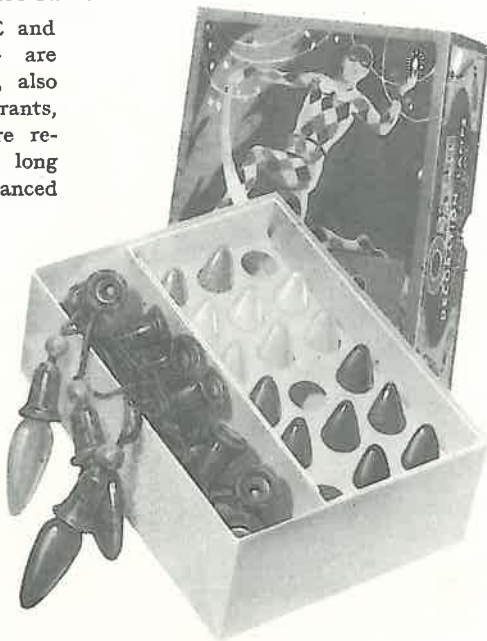
Osram

DECORATION LAMP OUTFITS

GROUP VI

These Lamp Outfits are **SAFE** and **RELIABLE**. Outfits Nos. 1—4 are suitable for large Christmas Trees, also for decorating Ballrooms, Restaurants, Shopwindows, etc., where they are required to remain on circuit for long periods. Their appearance is enhanced by the use of the Dahlia or Water Lily Shades illustrated below. Cut-outs in each lamp prevent the failure of one from extinguishing the series.

Outfit No. 5 is ideal for small and medium Christmas Trees and for children's parties where **SAFETY** is of paramount importance.



DAHLIA SHADE
(For use with Outfits Nos. 1-4)



NURSERY RHYME BELL
(For use with Outfit No. 5).

Outfit Nos. 2—4. (Outfit No. 5 is illustrated on page 4 of coloured centre spread).

STANDARD LAMP OUTFITS

Outfit No.	Volts	No. of Lamps		Type of Lamps	Spacing of Lamp-holders	Price complete
		In Circuit	Spare			
1	100/125	8	1	14v. 7w. Olive	24"	12/6
2	200/210	15	3	14v. 7w. Olive	24"	19/6
3	220/230	17	1			
4	240/250	18	0			
5	200/250	12	1	19v. 3w. Cone	12"	10/6

Spare Lamps: Olive type 1/- each; Cone type 9d. each.

ACCESSORIES

- For Outfit No. 1.
 - Dahlia Shades, box of 8 3/6
 - Water Lily Shades, box of 8 2/9
- For Outfits Nos. 2—4.
 - Dahlia Shades, box of 18 7/-
 - Water Lily Shades, box of 18 5/6
- For Outfit No. 5.
 - Nursery Rhyme Bells, box of 12 5/-
- For all Outfits.
 - Autumn Leaves, per doz. yards 7/6



DECORATION LAMP OUTFITS

GROUP VI.

"PARTY LIGHTS" OUTFIT

SERIES "A." NURSERY RHYMES.

200/250 volts. 15/6 complete.

This outfit comprises twelve miniature Bell-Shades in six attractive colours, which are attached to Cone Type (19v.3w.) Lamps, fitted in coloured holders and wired together with multi-coloured flex to a B.C. adaptor. The Bells are translucent and each bears a delightful coloured representation of some well known English Nursery Rhyme.

Osram Party Lights will be found invaluable for parties of all kinds—Christmas, Birthday, etc., where they will aid in diffusing an atmosphere of good cheer.



CHRISTMAS TREE TABLE CENTRE

200/250 Volts. Price 17/6 complete.

This illuminated centre piece for the table makes a wide appeal to children at Christmas time, or in fact at any festive gathering.

It consists of an artificial Christmas Tree of English manufacture, mounted on a decorated wooden base, and wired complete with 5ft. of extension flexible and adaptor, 12 green bakelite lamp-holders, twelve OSRAM cone type (19 volt 3 watt) lamps in assorted colours and one spare lamp.



For prices of spares, see page 55



ELECTRIC LAMPS
FOR SPECIAL LIGHTING SERVICE
GROUP I.



OSRAM Ultra-Violet Lamp.

OSRAM ULTRA-VIOLET LAMP

The Osram ultra-violet lamp comprises a tungsten filament with an arc in mercury vapour between cylindrical tungsten electrodes. The greater part of the light and infra-red rays is radiated from these incandescent electrodes, and the ultra-violet rays radiate from the arc stream between them. The filament ensures automatic striking of the arc.

The lamp's radiation has a close affinity to that of sunlight, and as such can be used, when concentrated on the human body, for purposes of a general tonic or for the treatment of specific diseases.

The lamp is designed for use on alternating current (50 cycles) only, in conjunction with a specially designed transformer. Voltages 100/105, 200/220, 230/250.

Standard Watts	Standard Cap	Approximate Dimensions				PRICE PER LAMP		
		Length		Diameter		£	s.	d.
		m/m	ins.	m/m	ins.			
400	G.E.S.	165	6½	70	2½	2	10	0

Particulars of Osram Ultra-violet lamp standard for use with above lamp will be forwarded on request.

OSIRA

REGD. TRADE MARK.

HIGH PRESSURE MERCURY VAPOUR ELECTRIC DISCHARGE LAMPS

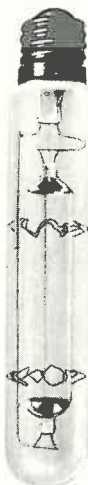
Made in England by the G.E.C. under one or more of the following British Patents :—344497, 384067, 391971, 397162, 405605, 410787, 415570, 426129 and other British Patents and pending Patent applications.

A G.E.C. Invention.

The Osira H.P.M.V Lamp was invented and developed in the Research Laboratories of The General Electric Co., Ltd. at Wembley, Middlesex, and were first put into operation for street lighting on June 22nd 1932, in East Lane, Wembley. This was the first public lighting installation in the world in which this type of lamp was used.

Principle of Operation.

Osira H.P.M.V. lamps constitute the most important recent advance in the technique of light production. The light is produced not because the gas or vapour is very hot but by the discharge of electricity through a mixture of gases which includes mercury vapour at a higher pressure than has been practical hitherto.



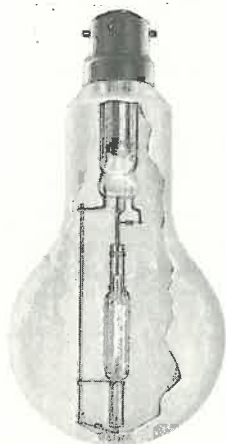
400 WATT OSIRA
H.P.M.V. LAMP.

Efficiency.

Osira H.P.M.V lamps give 3 times as much light as ordinary gasfilled tungsten filament lamps of equivalent wattage; for instance the 400 watt Osira Mercury Discharge lamp gives practically the same light as a 1,000 watt Osram Incandescent lamp. Thus by using these lamps the illumination can be greatly increased without adding to the amount of electricity consumed.

Electricity Supply.

Osira Lamps can only be used on alternating current supplies of voltages from 200 to 260 volts.



80 WATT
OSIRA LAMP.

Choke Coils.

The characteristics of these OSIRA lamps are similar to those of an electric arc, i.e., they have a "negative" resistance and consequently they must always be used in conjunction with a specially designed choke.

Power Factor.

The power factor of lamp and G.E.C. choke is about 0.6 but by suitable condensers this can be raised to between 0.8 and 0.9.

Switching.

When first switched on Osira lamps pass about twice their normal burning current and take roughly between two and five minutes, according to wattage, to attain full brightness.

If the electricity supply is interrupted the lamp will have to cool down before it will light up again which it will do automatically if the switch is left on.

OSIRA

HIGH PRESSURE MERCURY VAPOUR ELECTRIC DISCHARGE LAMPS—CONT.

Fuses.

The provision of separate fuses for each lamp is recommended.

Wiring.

Osira lamps are arranged for parallel burning, each lamp must have a G.E.C. choke coil in series with it, preferably on the phase side of the lamp.

If a condenser is used for power factor correction it should be connected across the mains on the mains side of the choke.

Burning Position.

The standard lamps are made for burning in the cap-up position only, but if specially ordered, lamps can be supplied for burning cap-down.

Running Characteristics and Dimensions.

Lamp Rating Watts	Approx. starting current at 230 volts		Average current when burning at full brightness at 230 volts	
	Without Condenser	With Condenser	Without Condenser	With Condenser
80	amps. 1.3	amps. 0.8	amps. 0.8	amps. 0.45
125	1.7	1.1	1.0	0.6
150	2½	1¾	1½	1
250	4½	3½	2	1.3
400	5½	4	3.2	2.2

Standard Watts	LIGHT OUTPUT AND DIMENSIONS.						
	Approx. light output in Lumens	Overall Length		Overall diameter		Length from cap centre contact to end of light column nearer cap	
		m/m	ins.	m/m	ins.	m/m	ins.
80	3040	160±4.5	6 5/16	80.0	3 1/8	110±4	4 5/16
125	5000	178±5.5	7	90.0	3 9/16	118±5	4 3/16
150	4800	230±15	9 1/16	43±4	1 13/16	100±10	4
250	9000	290±10	11 3/8	50±1	1 15/16	110±5	4 5/16
400	18000	325±15	12 3/8	50±1	1 15/16	110±5	4 5/16

PRICES.

Standard Voltages	Standard Watts	Standard Cap	PRICE PER LAMP		
			£	s.	d.
	80	3 PIN B.C.	1	10	0
200/210, 220	125	3 PIN B.C.	1	15	0
230, 240/250	150	E.S.	1	15	0
	250	G.E.S.	1	17	6
	400	G.E.S.	2	0	0

For particulars of Chokes and Condensers for use with Osira discharge lamps see page 60.

OSIRA

HIGH PRESSURE MERCURY VAPOUR ELECTRIC DISCHARGE LAMP ACCESSORIES

G.E.C. TAPPED CHOKE COILS

These G.E.C. Choke Coils have been specially designed for, and must always be used with OSIRA High Pressure Mercury Vapour Lamps.

They are provided with tappings in steps of 5 Volts.

CHOKE COIL PRICES.

Lamp Rating Watts	Lamp Voltages Covered	Catalogue No.	PRICE EACH
80	200/210, 220 230, 240/250	Z.1820 Type B	£ 3 9 6
		Z.1821 Type H	2 2 0
125	200/210, 220 230, 240/250	Z.1830 Type B	3 9 6
		Z.1831 Type H	2 2 0
150	200/210, 220 230, 240/250	Z.1840 L.50	2 5 0
		Z.1840 H.50	2 5 0
250	200/210, 220 230, 240/250	Z.1860 L.50	2 10 0
		Z.1860 H.50	2 10 0
400	200/210, 220 230, 240/250	Z.1871 L.50	2 14 0
		Z.1871 H.50	2 14 0

G.E.C. METAL CLAD CONDENSERS

These Condensers are totally enclosed and of the highest quality.

They are designed, when used with one OSIRA High Pressure Mercury Vapour Lamp and Choke, to raise the Power Factor of the unit to over 0.8.

Lamp Rating Watts	Voltages	Recommended Capacity in M.F.D.	Catalogue No.
80	200/220 230/250	10	Z.1850
		7	Z.1849
125	200/220 230/250	12½	Z.1851
		10	Z.1850
150	200/250	10	Z.1850
250	200/250	15	Z.1852
400	200/250	20	Z.1854

PRICE EACH; Z.1849 16/- Z.1850 18/- Z.1851 20/- Z.1852 22/-
Z.1854 25/-

Full details of characteristics, wiring instructions, circuit diagram, technical notes and fittings recommended will be found in the G.E.C. Catalogues Z.(1) for Exterior Lighting and F.7093 for Interior Lighting.

OSIRA FLOODLIGHTING LAMPS

GROUP IX.



"Osira" Floodlighting Lamp.

The special advantages which these lamps possess over other forms of floodlighting lamps are :—

1. **Economy.** The light generated by them is itself coloured, thus obviating the use of coloured media which invariably absorb a large percentage of the light given by ordinary light sources.
2. **Brilliance.** The light given by them is more brilliant and the colours more vivid than that obtained by other methods.

STANDARD COLOURS :—Red, Light Blue, Dark Blue, Light Green, Dark Green and Yellow (Sodium).

ESSENTIAL ACCESSORIES :—Tesla Coil, Filament Transformer and Choke Coil. (Tesla Coil not necessary for Yellow).

PRICES.

Colour	Approx. Watts	Voltage	PRICE PER LAMP		
			£	s.	d.
Red	400	200/250	3	0	0
Light Blue	250				
Dark Blue	250				
Light green	250				
Dark green	250				
Sodium yellow	100	200/250	3	10	0
Red	150	200/250	2	2	6
Light blue, etc. to Dark green	100	200/250	2	2	6

DIMENSIONS

Colour	Watts	Length		Diameter		Length of luminous column	
		m/m	ins.	m/m	ins.	m/m	ins.
Red	400	1180±19	46 $\frac{3}{4}$	37	1 $\frac{7}{8}$	865	34
Blue, etc. .. .	250	1180±19	46 $\frac{3}{4}$	26	1	865	34
Yellow	100	420	16 $\frac{1}{2}$	46	1 $\frac{3}{4}$	230	9
Red	150	690±10	27	37±1.5	1 $\frac{3}{4}$	430±5	16 $\frac{3}{4}$
Blue, etc. .. .	100	690±10	27	26±1.5	1	430±5	16 $\frac{3}{4}$

Prices and particulars of Tesla Coils, Chokes and Filament Transformers for Osira Floodlighting Lamps will be forwarded on application.

OSIRA LABORATORY LAMPS

GROUP IX.

Many operations which are carried out in physical and chemical laboratories require the use of a light source giving a line spectrum which can be used as a source of known wavelengths for calibration purposes, or from which a single line can be isolated for work requiring monochromatic radiation. To cover these fields the General Electric Company Ltd. has produced a range of special OSIRA electric discharge lamps, particulars of which will be sent on application.

G.E.C.

TYPICAL

STREET LIGHTING INSTALLATIONS



THE CRYSTAL PALACE PARADE, LONDON.

Illuminated by G.E.C. DI-FRACTOR Lanterns equipped with 400 watt OSIRA Lamps.



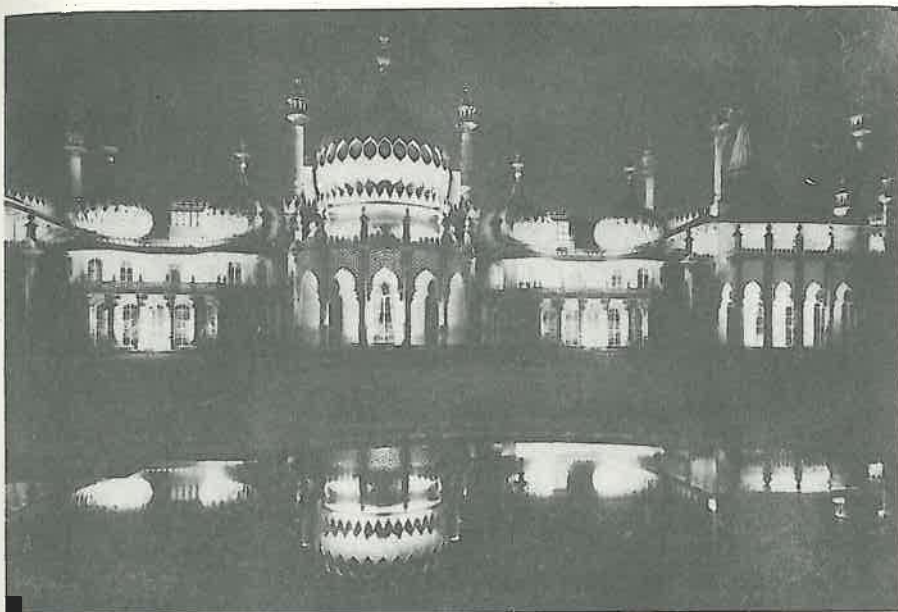
VICTORIA EMBANKMENT, LONDON.

This traffic way which carries the heaviest volume of traffic in the world is illuminated by G.E.C. "Wembley" Lanterns and 1,500 watt Osram Gasfilled Lamps.

G.E.C.

TYPICAL

OSIRA LIGHTING INSTALLATIONS



ROYAL PAVILION, BRIGHTON.
Illuminated by G.E.C. Floodlights, equipped with Osira Lamps.



Sir W. G. ARMSTRONG WHITWORTH AIRCRAFT, LTD.
Where Osira Lamps are installed for the lighting of important sections of the factory.

THE GENERAL ELECTRIC CO., LTD., OF ENGLAND

Known throughout the world as the

G.E.C.

REGD. TRADE MARK

Manufacturers and Suppliers of Everything Electrical

WORKS :

LONDON, BIRMINGHAM, MANCHESTER, COVENTRY, SOUTHAMPTON,
EASTLEIGH, ERITH, NORTHAMPTON AND LEMINGTON-ON-TYNE.

RESEARCH LABORATORIES : WEMBLEY.

HOME BRANCHES :

	Address	Telephone No.
ABERDEEN	Magnet House, 32, Market Street	Central 2770/1
BELFAST	Magnet House, Queen Street	25656 (3 lines)
BIRMINGHAM	Magnet House, Moor Street	Midland 4421/8 (8 lines)
BLACKBURN	Magnet House, 40/42, Darwen Street	4141/2 (2 lines)
BLACKPOOL	Magnet House, 24, Birley Street	3233 (2 lines)
BRIGHTON	Regent Hill, Western Road	3277/8
BRISTOL	Magnet House, 26, Victoria Street	24551 (3 lines)
CARDIFF	Magnet House, Castle Arcade & Womanby St.	2620
CORK	Magnet House, Grand Parade	823
CROYDON	516, London Road	Thornton Heath 3246
DUBLIN	Magnet House, Trinity Street	71141/2/3/4
DUNDEE	26/30, North Lindsay Street	2168/9 (2 lines)
EDINBURGH	Magnet House, 8, George Street	23241/2/3/4/5
GLASGOW	Magnet House, 71, Waterloo Street	Central 9250
GLOUCESTER	Magnet House, 2, St. Aldate Street	3017
HULL	Magnet House, 164, 166, 168, George Street	Central 34625/6
INVERNESS	14, Falcon Square	830
IPSWICH	Electric House, Lloyds Avenue	3771/2/3 (3 lines)
LEEDS	Magnet House, Wellington Street	20671 (3 lines)
LEICESTER	Magnet House, 33, Rutland Street	5811/2
LIVERPOOL	Magnet House, Church Alley	Royal 5380 (6 lines)
MANCHESTER	Magnet House, Victoria Bridge	Blackfriars 3434 (8 lines)
MIDDLESBROUGH	Magnet House, 52/58, Corporation Road	3621/2
NEWCASTLE-ON-TYNE	Magnet House, Gallowgate	25160/1/2/3/4
NOTTINGHAM	Magnet House, 25, Stoney Street	43547/8/9 and 43540
PLYMOUTH	Magnet House, 175, Union Street	60226 (3 lines)
SHEFFIELD	Magnet House, Fitzalan Square	25101/2/3
SOUTHAMPTON	Magnet House, Commercial Road	5631/2/3
STOKE-ON-TRENT	Magnet House, South Wolfe Street	48575/6 (2 lines)
SWANSEA	Magnet House, Northampton Place	5026/7/8 (3 lines)

OVERSEAS BRANCHES :

AUSTRALIA :	NEW ZEALAND :	ARGENTINA :
SYDNEY (N.S.W.)	WELLINGTON.	BUENOS AIRES.
MELBOURNE (Victoria).	CHRISTCHURCH	
PERTH (Western Australia).	AUCKLAND.	
NEWCASTLE (N.S.W.)		BURMA :
HOBART (Tasmania).		RANGOON.
LAUNCESTON (Tasmania).	CANADA :	
With Agencies in —	MONTREAL.	
BRISBANE (Queensland).		MALAYA :
ADELAIDE (S. Australia).	INDIA :	SINGAPORE (Straits
and in the Fiji, Navigation, and	CALCUTTA.	Settlements).
Friendly Islands & New Guinea.	MADRAS.	KUALA LUMPUR
SOUTH AFRICA :	BOMBAY.	(Federated Malay States).
JOHANNESBURG.	NEW DELHI.	
CAPETOWN.	LAHORE.	CHINA, MANGHUKUO AND
PORI ELIZABETH	CAWNPORE.	KOREA :
DURBAN.	BANGALORE.	SHANGHAI.
With Agencies in :—	TRIVANDRUM.	HONG-KONG.
EAST LONDON (Cape Province).	KARACHI.	TIENSIN.
SALISBURY	COIMBATORE.	With Agency in :—
BULAWAYO } RHODESIA.	HYDERABAD (Deccan).	HANKOW.
NDOLA }		EUROPE :
		PARIS.

Head Office :

MAGNET HOUSE, KINGSWAY, LONDON, W.C.2

Telephone : TEMple Bar 8000 (90 lines).

Telegrams : Electricity, Westcent, London. Cablegrams : Polyphase, London.

AGENCIES IN ALL OTHER PRINCIPAL TOWNS THROUGHOUT THE WORLD.

BREAKAGE, DAMAGE AND PILFERAGE.—Except in special cases the Company does not hold itself responsible for any loss or damage in transit.

Goods should be examined immediately on delivery, and in case of breakage, damage or pilferage the Consignee should notify the Carriers immediately, and lodge a claim within three days of delivery, keeping the broken or damaged articles for examination. In the case of non-delivery a claim must be lodged with the Carriers within fourteen days of despatch.

ALLEGED SHORTAGE.—Claims for alleged shortage can only be entertained if received within three days of receipt of goods and if accompanied by fullest possible particulars of case, number, condition, etc.

CONSEQUENTIAL DAMAGE.—Whilst every care is taken to ensure correct execution of orders, and whilst any faulty goods are of course replaced, the Company will not entertain claims for consequential damage, loss of time sustained, or cost of repairs executed without previous consent.

SUBSTITUTION OF IMPROVED DESIGNS.—The Company will supply that pattern which experience has shown to be the best, instead of invariably sending exactly the one that may be ordered.

DIMENSIONS AND DRAWINGS.—Although all dimensions and drawings appearing in the Company's Catalogue have been compiled with every possible care, no guarantee is given that same will not be departed from or varied without notice.

HOME ORDERS.

TERMS OF PAYMENT.—Ledger accounts will be opened upon satisfactory references being furnished.

Accounts are payable monthly subject to a cash discount of 2½% if paid during the month following delivery, unless otherwise agreed (except Electrical Plant P Section of the Company's Catalogue, which is strictly Net).

No Cash Discount will be allowed off Overdue Accounts or Accounts under £1.

Cheques, Postal and Money Orders to be made payable to **The General Electric Company, Limited**, and crossed as follows—

“Midland Bank, Limited.”

DELIVERY.—Goods are delivered free within our Van Delivery areas. Outside these areas orders of the value of £5 and upwards will be sent carriage free within the usual delivery areas of the Railway Companies in Great Britain.

(NOTE.—The Company's extensive Van Deliveries cover a radius of approximately 12 miles from the G.P.O., London, and in the case of most of the Provincial Branches approximately 6 miles from their local G.P.O.).

CASES.—All cases and packing material are charged at cost price, full value being allowed if returned in good condition and carriage paid within one month, and duly advised; only two-thirds value will be allowed on machinery cases.

EXPORT ORDERS.

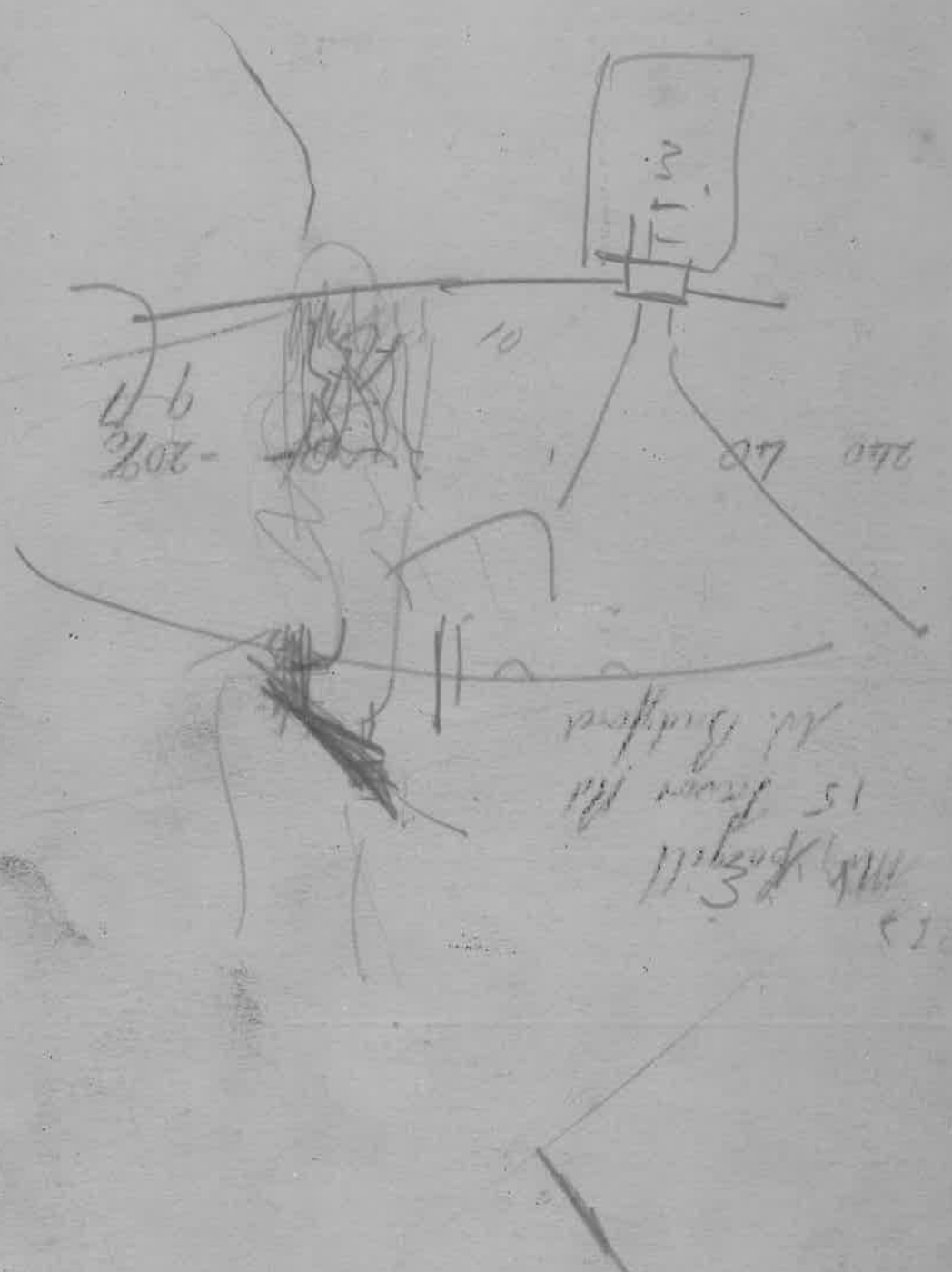
TERMS OF PAYMENT.—Unless otherwise arranged, customers are requested to provide for payment through a London Bank against Bill of Lading.

Payment for orders received from Export Houses in Great Britain will be 2½ per cent. Cash within seven days or Net monthly account (except Electrical Plant P Section and Osram Lamps OS Section of the Company's Catalogue, which are strictly Net).

DELIVERY.—Free Warehouse or Works. **Electrical Plant** free on rails Birmingham. Extra charge for delivery f.o.b., case and packing.

THESE TERMS ARE SUBJECT TO MODIFICATION BY SPECIAL CONDITIONS RELATING TO DIFFERENT DEPARTMENTS, DETAILS OF WHICH WILL BE SENT ON REQUEST.

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