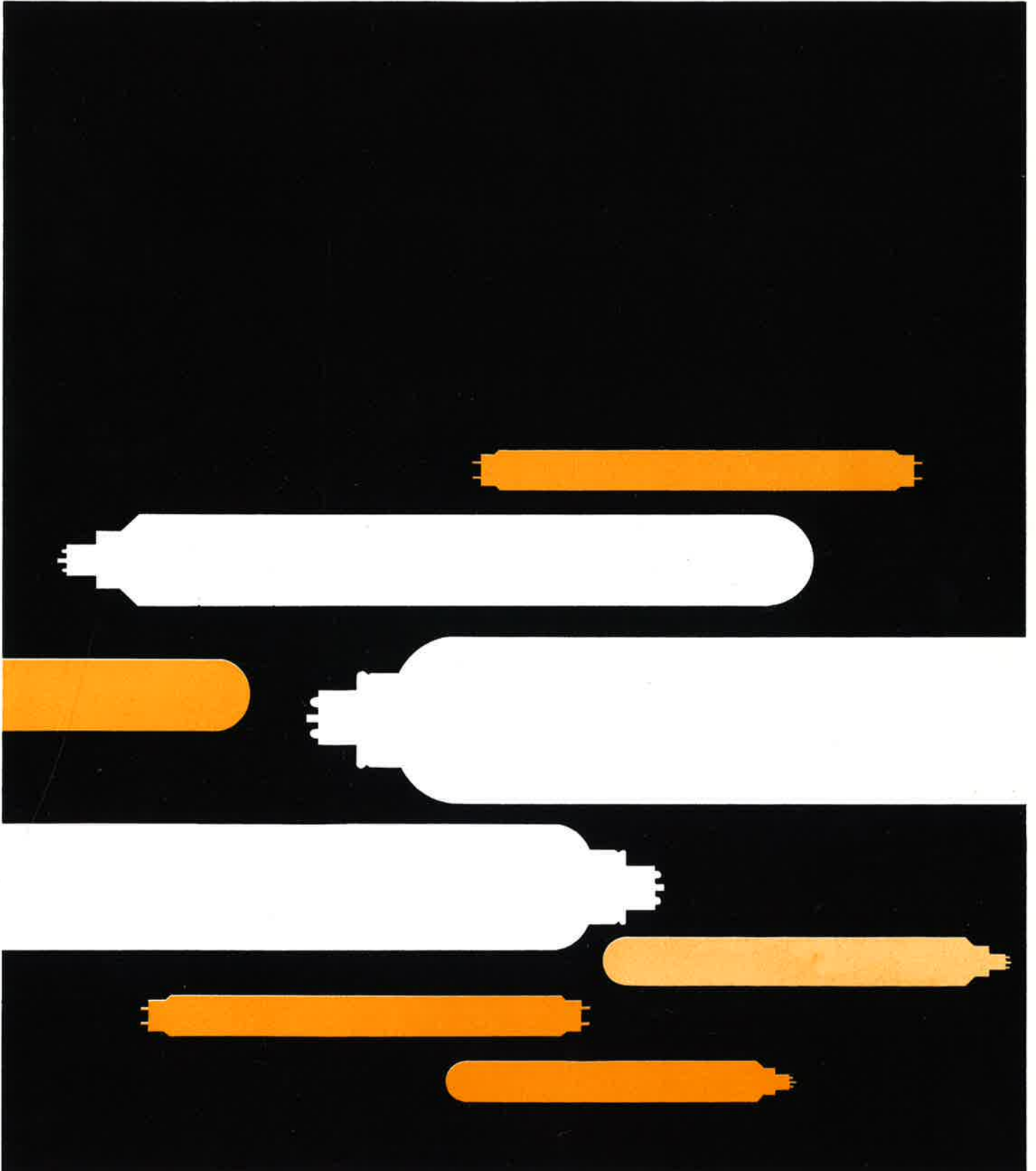


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Osram-GEC Low Pressure Sodium Lamps



Leadership in Sodium Lighting

The low pressure sodium lamp is the most efficient light source made in terms of lumens per watt hence its importance in street lighting.

Osram introduced a jacketed lamp in the 30's and in 1955 was first in the world to introduce the Integral lamp.

The design principles of the Integral lamp formed the development basis of current advanced Sodium lamp technology and permitted the rapid increase of efficiency in modern Sodium lamps.

Osram substantiated their lead again in 1968 with the introduction of Super SOX and this major innovation has established a new concept in efficiency and reliability.

The three principal types are marketed by Osram and this leaflet gives details of these ranges.

Life

All Osram Low Pressure Sodium Lamps are individually guaranteed for 4000 hours with an objective life of 6000 hours.

Control Gear

Sodium lamps must be operated in conjunction with suitable control gear. A complete range of ballasts and capacitors are available, including gear for 240V only, tapped operation and in drip-proof form. Full details of control gear and lanterns on application to G.E.C. (Street Lighting) Ltd., East Lane, Wembley, Middlesex.

Burning Positions:

SOI/H

45W and 60W ratings must be operated between 20° above horizontal (cap down) to vertical (cap up). 85W and 140W ratings must be operated within 20° of the horizontal.

SLI/H

All ratings must be operated within 20° of the horizontal.

SUPER SOX

All ratings can be operated between 20° above horizontal (cap down) to vertical (cap up).

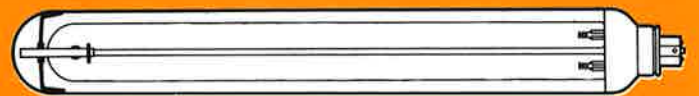
The range



SOI/H

The Integral lamp was a major development from the SO/H and was introduced by Osram in 1955.

The arc tube is sealed hermetically in the outer jacket giving a more efficient robust lamp than the SO/H. Heat retaining sleeves are fitted to the limbs of the arc tube, improved starting provided by two wires spiralled around the arc tube.



SUPER SOX

The Super SOX range is a radical development from SOX and re-rated SOX.

The SOX principle derives from the SOI/H Integral lamp, but with improved heat retention provided by an indium oxide film on the inner surface of the outer jacket.

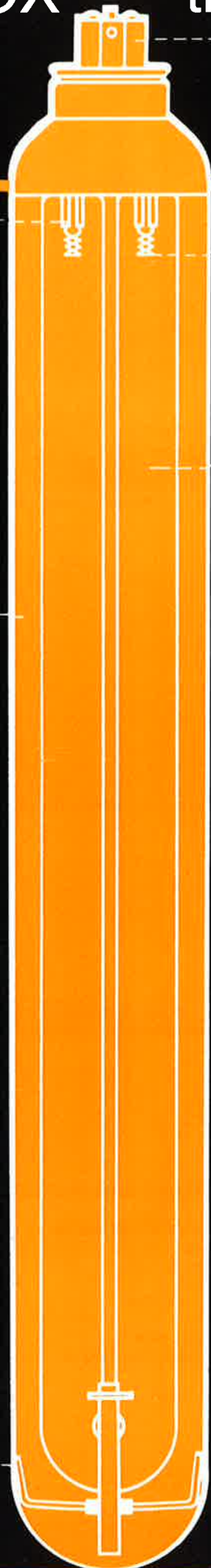
May be used to replace SO/H and SOI/H without change of gear or lanterns.



SLI/H

Fundamentally differing from integral lamps, the linear lamps are double ended, with the arc tube indented at regular intervals, serving as Sodium reservoirs to ensure Sodium distribution over life and maximum surface area.

Super SOX the inside story



Ceramic protected
Lead-in wire

Rugged Mycalex
BC cap

Triple coil
cathodes
for long life

Dimple free
construction of
U-bend arc tube -
non staining
glass

Outer glass
envelope with
internal heat
reflecting layer

Nickel plated
arc tube support
assembly

- Constant wattage through life.
- Constant luminous efficiency through life.
- Increased reliability.

The dimples in the original SOX and re-rated SOX lamps were employed as Sodium reservoirs in an attempt to ensure Sodium vapour distribution through life.

Now by Osram design breakthrough and unique manufacturing processes, construction has been simplified and correct through-life Sodium vapour distribution ensured without the necessity of light-masking dimples.

Rating	35W	55W	90W	135W	180W
Initial & Design Lumens	4,500	7,500	12,500	21,500	31,500
Nett Trade Price	3- 4-0 3-20	3-15-0 3-75	4-12-0 4-60	5-12-0 5-60	9- 6-0 9-30

Specifications

SOI/H

Lamp Rating	Lighting Design Lumens	Cap	Overall Length m.m.	Diameter m.m.	Standard Packing Quantity	Nett Trade Price	
		Mycalex				£ s d	£dec
45W	2,800	B.C.	238±10	50±2	12	3- 8-0	3-40
60W	3,900	B.C.	300±10	50±2	12	3-17-0	3-85
85W	6,400	B.C.	415±10	50±2	12	4-12-0	4-60
140W	10,600	B.C.	518±10	65±2	6	5- 5-0	5-25

SLI/H

Lamp Rating	Lighting Design Lumens	Cap	Overall Length m.m. Cap Face to Pin Tip	Diameter m.m.	Standard Packing Quantity	Nett Trade Price	
						£ s d	£dec
60W	5,700	Bipin	419	38±2	25	3-16-0	3-80
160W	18,000	Bipin	} 902	38±2	1	5-12-7	5-63
200W	20,000	Bipin		38±2	1	6-10-0	6-50

SUPER SOX

Lamp Rating	Initial & Lighting Design Lumens	Cap	Maximum Overall Length m.m.	Diameter m.m.	Packing Quantity	Nett Trade Price	
		Mycalex				£ s d	£dec
35W	4,500	B.C.	310	50±2	12	3- 4-0	3-20
55W	7,500	B.C.	425	50±2	12	3-15-0	3-75
90W	12,500	B.C.	528	65±2	6	4-12-0	4-60
135W	21,500	B.C.	775	65±2	6	5-12-0	5-60
180W	31,500	B.C.	1,120	65±2	9	9- 6-0	9-30

The information given above is typical and must not be considered a guarantee of individual lamp characteristics or performance.

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

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