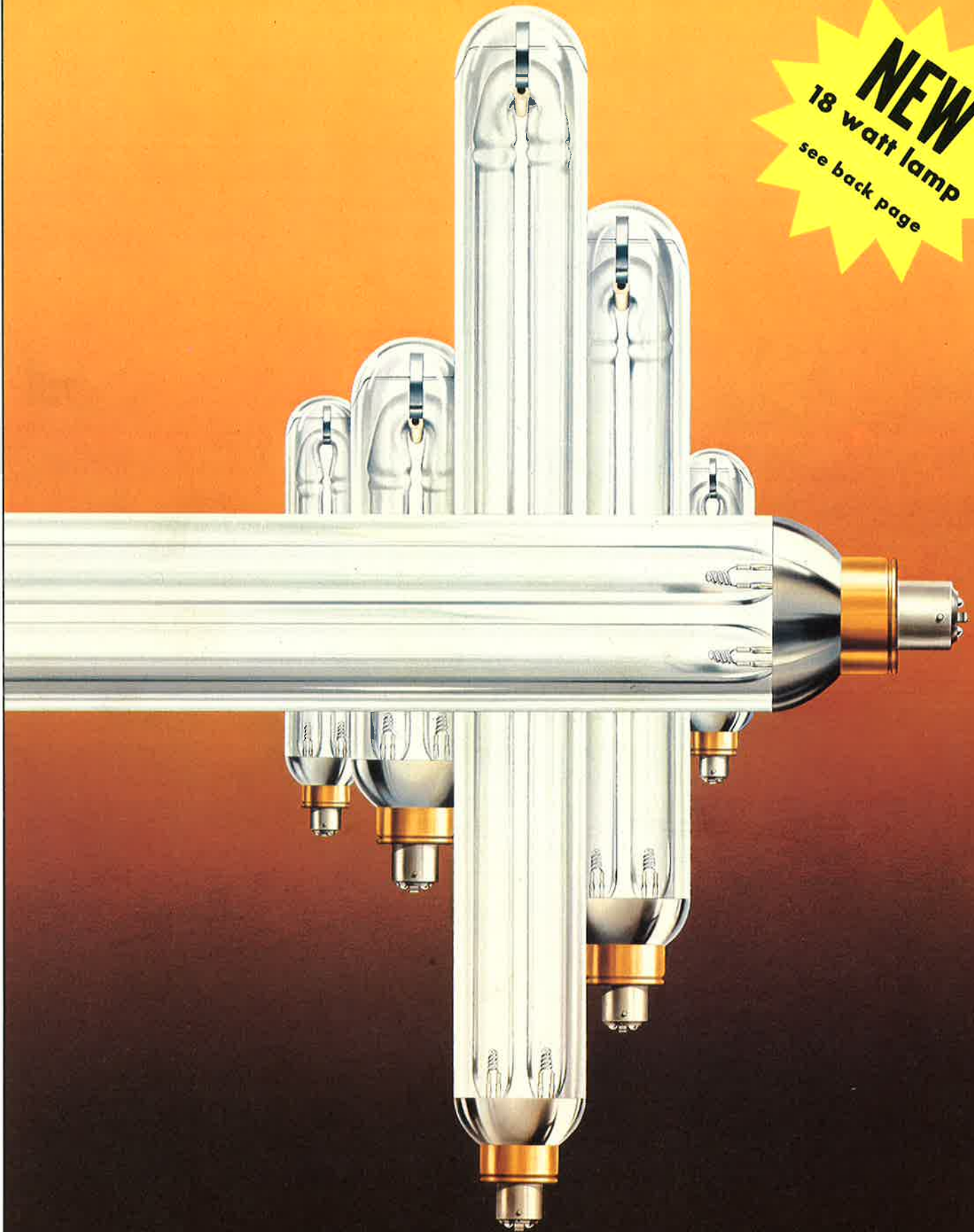


SUPER SOX

LOW PRESSURE SODIUM LAMPS

NEW
18 watt lamp
see back page



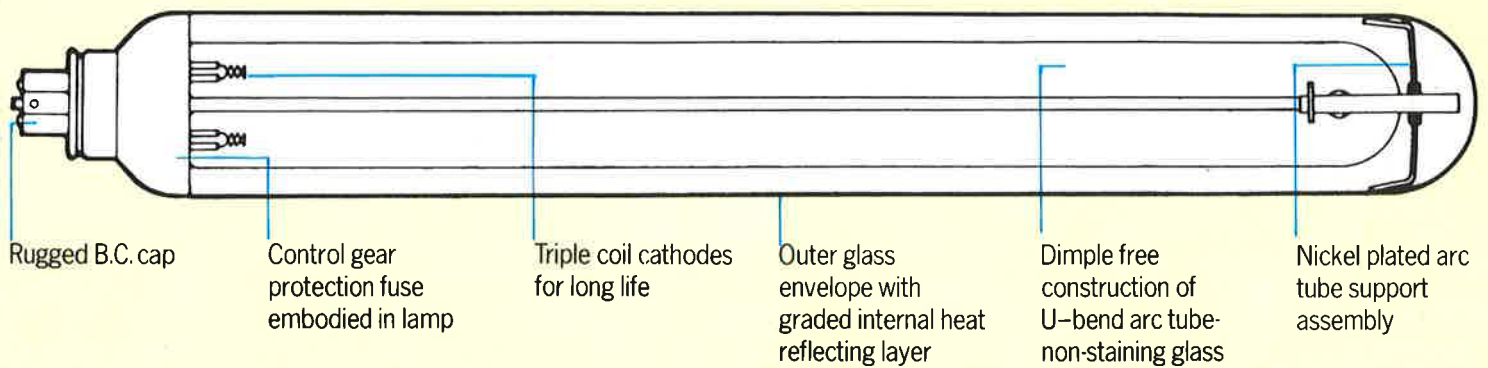
Osram-S&C

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LEADERSHIP IN LOW PRESSURE SODIUM LIGHTING

The Low Pressure Sodium lamp is the most efficient practical light source known to man, and continues to play important roles in increasing safety on the road, in security and area lighting and in the conservation of energy. Continued developments in low pressure sodium lamp technology made by Osram in recent years enables the range of Super SOX lamps to meet the majority of the diverse needs of modern outdoor lighting.

SUPER SOX – THE INSIDE STORY



Design breakthrough and unique manufacturing processes mean:

Simplified construction – less chance of transit breakage or in-life failure.
 Dimple free construction – no light masking and high lumen maintenance.
 Correct sodium vapour distribution through

life over full lamp length is ensured by graded heat reflecting film.
 No significant watts rise through life.
 Greater safety owing to internal fuse and special cap insulation.

EFFICIENCY

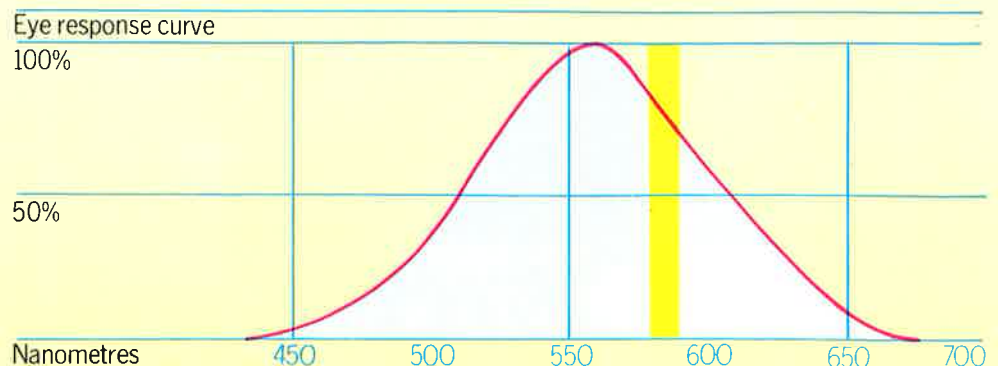
The Super SOX lamp is the natural choice where very high luminous efficiency and low energy cost are the decisive factors influencing choice and colour is not of major importance.

Lamp Type	Mean Lumens per watt
Incandescent	23
Mercury Vapour	54
Metal Halide	80
High Pressure Sodium	127
Low Pressure Sodium	183

Lumens per watt: 25, 50, 75, 100, 125, 150, 175

COLOUR

Nearly all of the visible radiation from a low pressure sodium lamp is in two spectral lines at 589.0 and 589.6 nanometres. This radiation is yellow and is very close to the point of **maximum response of the human eye** (560nm), therefore the efficacy is very high.



COST SAVINGS

Power consumption (kilowatthours) per annum for dusk to dawn burning (4250 hrs) per mile or kilometre.

135W Super SOX lamps mounted in lanterns on columns at 120' (37m) spacing compared to 400W Mercury.

	Kilowatthours per Km	Mile
400W Mercury 22,000 lumens	50,800	81,500
135W Super SOX 22,000 lumens	21,000	33,700
Saving	29,800	47,800

35W Super SOX lamps mounted in lanterns on columns at 200' (60m) spacing compared to 80 or 125W Mercury.

	Kilowatthours per Km	Mile
125W Mercury 5600 lumens	10,150	16,250
80W Mercury 3500 lumens	6,700	10,700
35W Super SOX 4,600 lumens	3,870	6,200

APPLICATION – SIDE ROADS, RESIDENTIAL ESTATES



A controlled level of light enables motorists and pedestrians on the pavement or road verges to see and be seen. In addition, the spread of light on to residential premises gives an added measure of security and safety. 35W and 55W Super SOX provide the answer.



APPLICATION – TRUNK ROADS, MOTORWAYS, EXPRESSWAYS



All roads which carry a fast moving dense traffic stream need a lighting scheme that will function at an optimum efficiency in conditions of fog, mist, rain or snow, and minimise accident risks. The larger lamps in the Super SOX range – 135 and 180 watt – are ideal for this application.



APPLICATION – AREA AND SECURITY LIGHTING



Tunnels, docks and harbours, storage areas and marshalling yards – All these and many others need lighting for night work and dusk to dawn light for security. Super SOX 55, 90 and 135 watt all have an application here.



APPLICATION – FLOODLIGHTING



The lower wattage lamps are ideal for providing light for small car parks, public buildings, churches, hotels or inns. Ideally suited are 35 and 55 watt Super SOX.



Osram S&C Limited

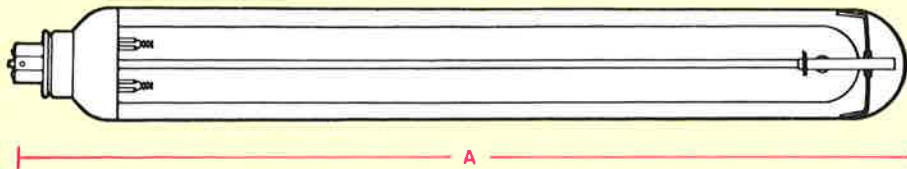
A subsidiary of The General Electric Company Limited of England
 P.O. Box 17, East Lane, Wembley, Middlesex, HA9 7PG Telephone: 01-904 4321 Telex: 22418

TECHNICAL DATA

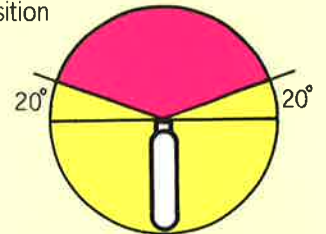
Lamp Watts	18	35	55	90	135	180
Cap	BC (BY22d)	BC (BY22d)	BC (BY22d)	BC (BY22d)	BC (BY22d)	BC (BY22d)
Initial Lumens	1800	4,600	7,650	12,750	22,000	32,000
Lighting Design Lumens	1600	4,500	7,500	12,500	21,500	31,500
Lamp Dimensions in mm						
Overall Length A	210 max.	310 max.	425 max.	528 max.	775 max.	1120 max.
Bulb Diameter B	50±2	50±2	50±2	65±2	65±2	65±2
Light Centre Length mm	130	180	235	285	405	575

The final lumen output at objective life is 94% of initial

Dimensions



Burning position



Burning position 20° from horizontal (cap down) to vertical (cap up).

ELECTRICAL CHARACTERISTICS

Lamp Watts	18	35	55	90	135	180
Nominal Lamp Volts	55	70	109	112	164	240
Nominal Lamp Current (amps)	0.35	0.6	0.6	0.95	0.95	0.91
Nominal Starting Volts (r.m.s)	280	390	410	420	520	600

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 Telex 55437

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 Glasgow G20 7PA
 041-332 7011
 Telex 77295

Osram can maintain or even improve your lighting and still save you money.



lighting the way