



A.E.I. LAMP & LIGHTING CO. LTD

SfB (63)

UDC 628 '94/'95

SODIUM DISCHARGE TYPE SOX

GENERAL DESCRIPTION

SOX lamps are low pressure sodium discharge lamps having U-shaped arc tubes and an integral outer bulb. They give a superior performance to the Integral (SOI/H) type of lamp because of the following improvements.

1. A new 2-ply glass giving better lumen maintenance.
2. A tin oxide infra-red reflecting internal coating providing improved conservation of energy.
3. A larger diameter arc tube giving a higher luminous efficiency.

SOX lamps are physically and electrically interchangeable with detachable jacket sodium lamps (SO/H) and integral sodium lamps (SOI/H) as follows:—

40 watt SOX	is interchangeable with	60 watt SO/H or SOI/H
60 watt SOX		85 watt SO/H or SOI/H
100 watt SOX		140 watt SO/H or SOI/H
150 watt SOX		200 watt SOI/H

Standard ratings

Watts	Volts	Cap	Type	Rated Life Hours	AEI L & L Ref. Nos.
40	200/250	BC (BY22d)	SOX	6000	96-8551
60					96-8555
100					96-8559
150					96-8563

Dimensions (mm)

Watts	Max Overall Length	Max Diameter
40	310	52
60	425	52
100	528	67
150	775	67



Electrical characteristics

Watts	Supply Volts	Lamp Operating Volts	Lamp Operating Current (amps)	Lamp Starting Current (amps)
40	200/250	75	0.6	0.54
60		115	0.6	0.54
100		125	0.9	0.81
150		185	0.9	0.81

Light source characteristics and performance

Watts	Average Lumens	Rated Hours (Hrs.)
40	4200	6000
60	7050	
100	11900	
150	19500	

Individual lamp guarantee – 4000 hours.

99% of the light output is concentrated at 5890/5896 Angstroms.

The time taken to reach full brightness is approximately 15 minutes, but there is no delay in starting if the lamp is switched on while still hot.

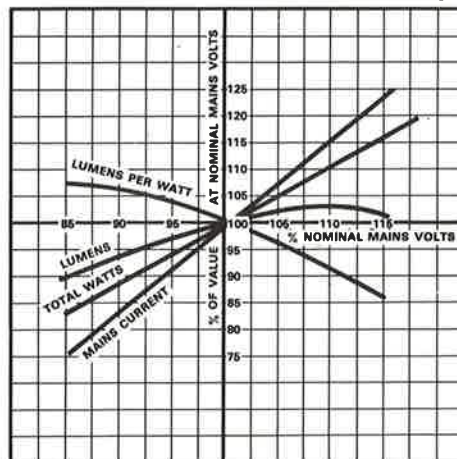
Operating position

Horizontal $\pm 20^\circ$. Cap up or down.

Control gear

SOX lamps are designed for operation on a.c. supplies in conjunction with approved control gear, details of which can be given on request.

Effect of variation of mains volts on the characteristics of sodium lamps



The company reserve the right to change without notice the design or the specification of equipment included in this Publication and supplied by them.