SfB (63)
UDC 621·32

Mazda

SODIUM DISCHARGE

140 WATT LINEAR

TYPE SLI/H

GENERAL DESCRIPTION

A low pressure sodium lamp incorporating the following essential factors:

1 A discharge tube of unique cross section containing metallic sodium in an inert gas.

2 An electrode sealed into each end terminating in bi-pin caps.

3 An outer envelope containing the discharge tube, with the intervening space evacuated to maintain thermal insulation to maintain the sodium in a fully vapourised condition.

4 A heat reflecting coating on the inside surface of the outer envelope to provide further thermal insulation.

PHYSICAL DIMENSIONS – (Tubular)

Rating	Diameter in.	Max overall length in.	Length excluding pins at one end in.	Length excluding pins at both ends in.	Cap
140W	1½	35·78	35·25 – 35·50	35·22	G13/10×35 Bi-pin

Lamp Ref. No. 96-8025

ELECTRICAL CHARACTERISTICS:

Rated Watts	Supply Volts	Nominal Lamp Operating Volts	Nominal Lamp Current	Nominal Power Factor
140	200/250	175	0·9 amp	0·9

LIGHT OUTPUT

20,000 lumens, 100% lumen maintenance through life.

LIFE

Average service life 6000 hours.
Individual guaranteed life 4000 hours.

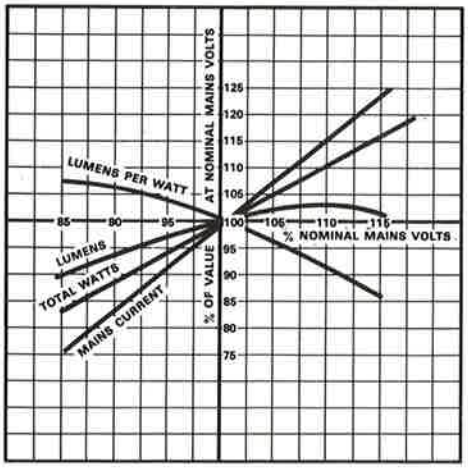
OPERATING CONDITIONS

Horizontal ± 20.
Lamps should be adequately protected against the possibility of condensed moisture or rain falling on them during operation. Time to reach full brightness approximately 10 minutes but there is no delay in starting if the lamps are switched off when hot.

CONTROL GEAR

The control gear consists of a high reactance transformer – Ref. AME 53124 – with an open circuit secondary voltage sufficiently high to start the lamp, with proportionately lower voltage as the inert gas discharge vapourises the metallic sodium. A power factor correction condenser – ~~19~~ 20 mfd, Ref. ~~C 2214~~ C2218 is connected across the mains.

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



A.E.I. LAMP & LIGHTING CO. LTD.
MELTON ROAD LEICESTER

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