

# Mazda

## SODIUM DISCHARGE 200 WATT LINEAR TYPE SLI/H

SfB (63)

UDC 621·32



### 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 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              |
|--------|--------------|------------------------|--------------------------------------|--|------------------|
| 200W   | 1½           | 35·78                  | 35·25 - 35·50                        | 35·22                                  | G13/10±35 Bi-pin |

Lamp Ref. 96-8029

### ELECTRICAL CHARACTERISTICS

| Rated Watts | Supply Volts | Nominal Lamp Operating Volts | Nominal Lamp Current | Nominal Power Factor |
|-------------|--------------|------------------------------|----------------------|----------------------|
| 200         | 200/250      | 135                          | 0·9 amp              | 0·9                  |

### LIGHT OUTPUT

25,000 lumens, 100% lumen maintenance through life.

### LIFE

Average service life 6000 hours.

Individual guaranteed life 4000 hours.

### OPERATING CONDITIONS

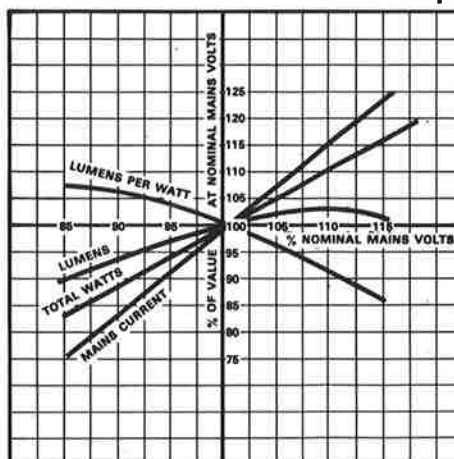
Horizontal ±20°

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 53172H and a 30mfd condenser ref C2235. The open circuit secondary voltage from this circuit is sufficiently high to start the lamp, with proportionately lower voltage as the inert gas discharge vapourises the metallic sodium. The condenser also acts as power factor correction.

### 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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