

# Mazda

## MERCURY IODIDE HIGH PRESSURE DISCHARGE LAMPS Type MBI

### GENERAL DESCRIPTION

Mercury Vapour Discharge Lamps containing metallic iodide addition, in quartz arc tubes loaded below 100 watts 1 cm of arc length and operating at pressures of 8/10 atmospheres.

The quartz arc tube is mounted in a clear glass outer bulb. The caps are nickel plated to give maximum resistance to corrosion.

### GENERAL APPLICATION

Industrial and Streetlighting.

### Standard ratings

Watts	Volts	Cap	Type	Bulb	Rated Life	AEI L & L Co
400	200/250	GES (E40/45)	MB1	Ellip-tical Clear	5000 Hours	91-7411

### Dimensions

Watts	Cap	Diameter	O/A Length	LCL	Arc Length
400	GES	120 ± 6	280 ± 6	180 ± 5	50 ± 2

### Electrical characteristics

Watts	Supply Voltage	Lamp Operating Volts	Nominal Lamp Operating Current
400	<del>200</del> /250 240	120/150	3.2 amps

### LUMEN OUTPUT

Design average lumens 24,000.

### OPERATING CONDITIONS

The lamps are designed to run in the vertical cap up to horizontal position ± 15°.

Run up time 3-5 minutes.

In the event of the lamp being extinguished by an interruption of the supply a short delay will occur whilst the lamp cools down, restrikes and runs up again.

### WARNING

Should the bulb be broken and the arc tube continue to glow, the lamp should not be used as without the protection of the bulb the radiations from the arc tube are harmful to the eyes and skin.

### CIRCUIT AND CONTROL GEAR

The MBI lamp is to be used with appropriate control gear which consists of a resonant choke circuit comprising inductances and a capacitor. It will not operate on standard MB lamp control gear.

