



# TECHNICAL BULLETIN

## MERCURY VAPOR LAMP

Mercury Vapor  
HF100PD

ANSI Code: H38

Product Code: 70162

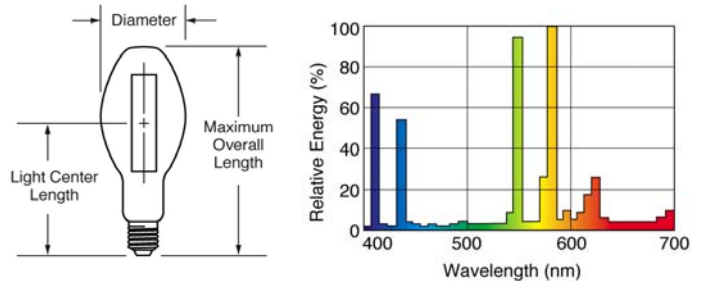
**Features:**

- Long life
- Nickel-plated base
- Rugged construction

- Applications: Roadway, Landscape, Factory, Sports, Parking, Security

### PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	4500	lm
Mean lumens at 10 hours/start	3600	lm
Rated average life	24000	h
Warm up time (90% lumens)	4	min
Correlated color temperature	4100	K
CIE chromaticity	0.375, 0.367	x,y
Color rendering index	40	
Operating position	Universal	
Time to hot re-start (max)	10	min



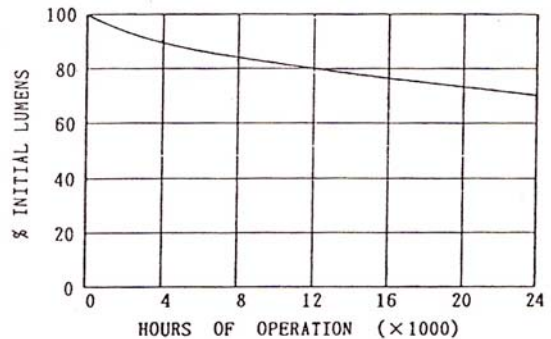
### ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	100	W
Nominal lamp voltage	130	V
Nominal lamp current	0.85	A <sub>rms</sub>
Current crest factor (max)	2	
<b>Ballast requirements</b>		
Open circuit voltage	210	V <sub>rms</sub>
-30°C (-22°F)	297	V <sub>peak</sub>
Min. starting current	0.85	A <sub>rms</sub>
Max. starting current	1.85	A <sub>rms</sub>

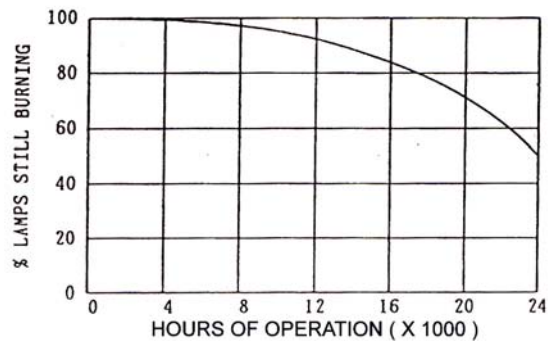
### PHYSICAL DESCRIPTION

Effective arc length	-	in (mm)
Maximum overall length	7.28 (185)	in (mm)
Light center length	5.04 (128)	in (mm)
Bulb diameter	2.95 (75)	in (mm)
Base to bulb eccentricity (max)	3	deg
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb designation	E24	
Bulb material	Borosilicate glass (Hard glass)	
Arc tube material	Quartz	
Bulb finish	Phosphor Coated	
Base designation	E39 Mogul	

LUMEN MAINTENANCE



LAMP MORTALITY



ISO 9001:2000 Certified



**EYE LIGHTING INTERNATIONAL**  
**OF NORTH AMERICA, INC.**

A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.

EQS-N-52-78- 70162

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January 29, 2007



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### **⚠WARNING**

This lamp can cause serious skin burn and eye inflammation from short-wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.

#### *RISK OF ELECTRIC SHOCK*

- Turn power off before inspection, installation or removal
- Protect lamp from direct contact with liquids to avoid breakage from thermal shock

#### **RISK OF FIRE**

- Keep combustible materials away from lamp during operation

#### UNEXPECTED LAMP RUPTURE MAY CAUSE INJURY, FIRE, OR PROPERTY DAMAGE

- Do not exceed rated ballast voltage
- Do not use lamp if outer glass is scratched or broken.
- Do not use beyond rated life
- Do not turn on lamp until fully installed
- Use only with a fixture and ballast rated for this product
- Turn lamp off at least once a week for 15 minutes
- Electrically insulate any metal to glass support in fixture

### **⚠CAUTION**

#### **RISK OF BURN**

- Allow lamp to cool before handling.

#### **LAMP MAY SHATTER AND CAUSE INJURY**

- Do not use excessive force when installing lamp
- Dispose of lamp in a closed container

### **LAMP OPERATING INSTRUCTIONS**

This is a discharge lamp and requires some time to restart and come up to full brightness after a power interruption. If power supply dips or is interrupted, lamps may extinguish and not restart. Turn off power supply for 10-15 minutes and allow lamp to fully cool. Lamp will restart when power is restored.

**R**

Conforms to:

USA: 21CFR1040.30 Canada: ANSI 136.1-2000

- LAMP CONTAINS MERCURY. Manage in Accord with Disposal Laws. See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-888-665-2677.



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