



TECHNICAL BULLETIN

MERCURY VAPOR LAMP

Mercury Vapor HF100PD/MED

ANSI Code: H38

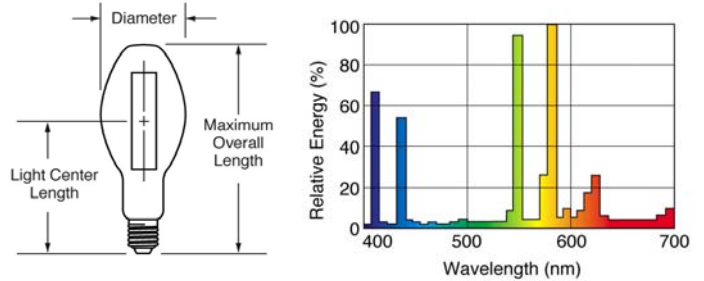
Product Code: 70113

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



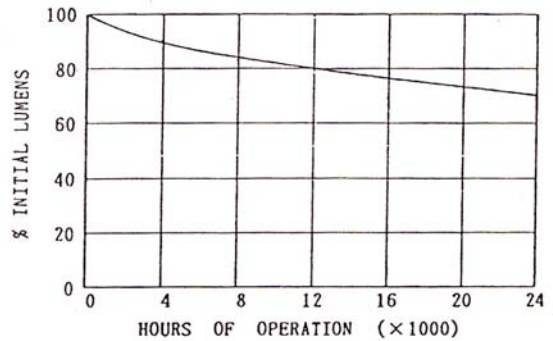
ELECTRICAL CHARACTERISTICS

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

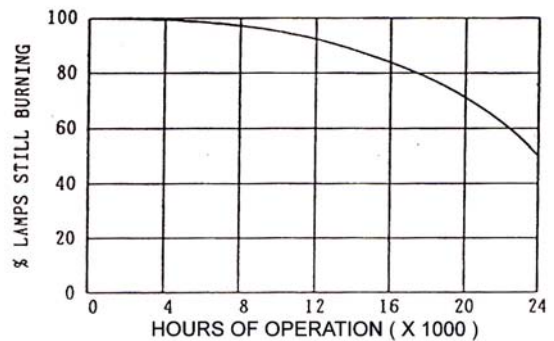
PHYSICAL DESCRIPTION

Effective arc length	-	mm (in)
Maximum overall length	146 (5.75)	mm (in)
Light center length	95 (3.74)	mm (in)
Bulb diameter	55 (2.17)	mm (in)
Base to bulb eccentricity (max)	3	deg
Maximum base temperature	190 (374)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb designation	E17	
Bulb material	Borosilicate glass (Hard glass)	
Arc tube material	Quartz	
Bulb finish	Phosphor Coated	
Base designation	E26 Medium	

LUMEN MAINTENANCE



LAMP MORTALITY



ISO 9001:2008 Certified ISO 14001:2004 Certified OHSAS 18001:2007 Certified ISO 17025:2005 Accredited



EYE LIGHTING INTERNATIONAL
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A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.

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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.

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Conforms to:

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

- LAMP CONTAINS MERCURY. Manage in Accord with Disposal Laws. See: www.lamprecycle.org or 1-888-665-2677.



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