TECHNICAL BULLETIN
Mercury Vapor Lamp

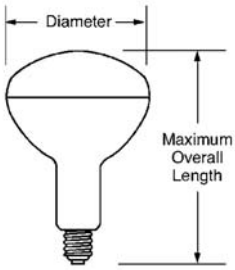
Mercury Vapor Reflector Lamp
HRFF100PD

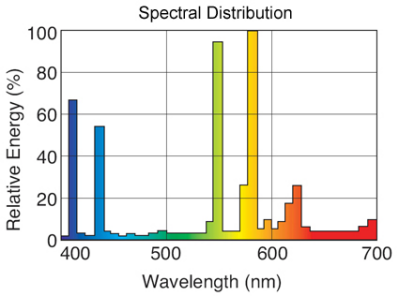
ANSI Code: H38 **Product Code: 71289**

Features:
- Built-in Reflector
- Medium Base
- Long Life
- Nickel Plated Base
- Rugged Construction

PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	2800	lm
Mean lumens	2240	lm
Average life	24000	h
Warm up time (90% lumens)	4	min
Correlated color temperature	4100	K
CIE chromaticity	.375, .367	x ,y
Color rendering index	40	
Operating Position	ANY	
Time to hot re-start	10	min

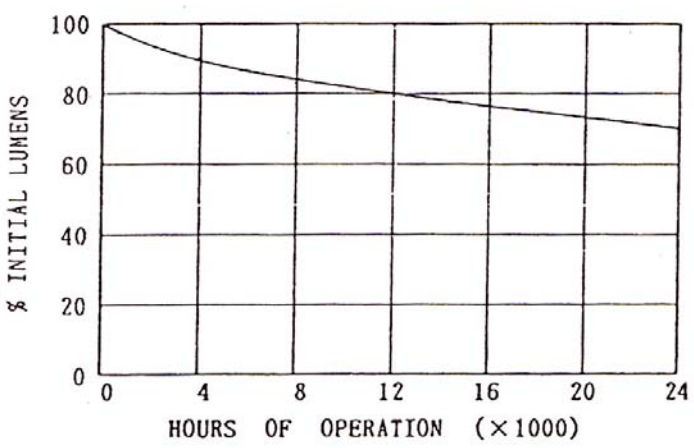




ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	100	W
Nominal lamp voltage	130	V
Nominal lamp current	0.85	Arms
Max. starting current	1.85	Arms
Current crest factor	2.0 max.	
BALLAST REQUIREMENTS		
Open circuit voltage	198	V_{rms}
-30°C (-22°F)	280	V_{peak}
BEAM CHARACTERISTICS		
Beam Lumens (0-55º)	2240	lm
Axial Beam Intensity (0º)	850	cd
Beam Spread	110	deg

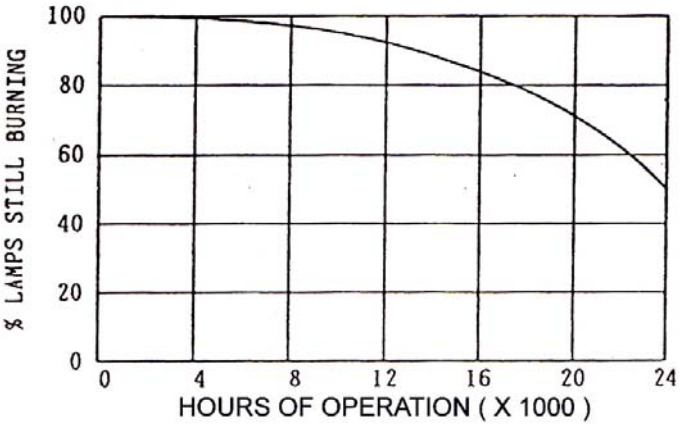
LUMEN MAINTENANCE



PHYSICAL DESCRIPTION

Maximum overall length	178 (7.01)	mm (in)
Bulb diameter	126 (4.96)	mm (in)
Base to bulb eccentricity (max)	3	deg
Maximum base temperature	210 (410)	ºC (ºF)
Maximum bulb temperature	400 (752)	ºC (ºF)
Bulb material	Borosilicate (Hard Glass)	
Bulb designation	RD40	
Bulb finish	Phosphor Coated	
Base designation	Medium	

LAMP MORTALITY



FIXTURE REQUIREMENT

Enclosed Fixture Required

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

EYE LIGHTING INTERNATIONAL OF NORTH AMERICA, INC.
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.

R	Conforms to: USA: 21CFR1040.30 Canada: ANSI 136.1-2000

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

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