



TECHNICAL BULLETIN

Mercury Vapor Lamp

Mercury Vapor Reflector Lamp HRF400PD

ANSI Code: H33

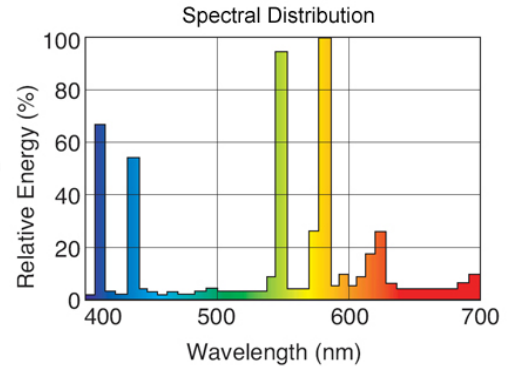
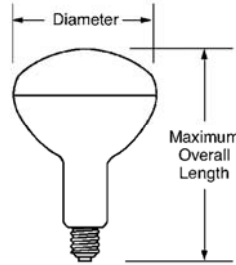
Product Code: 71191

Features:

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

PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	15500	lm
Mean lumens	12400	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	400	W
Nominal lamp voltage	135	V
Nominal lamp current	3.2	Arms
Max. starting current	7.5	Arms
Current crest factor	2.0 max.	

BALLAST REQUIREMENTS

Open circuit voltage	198	V _{rms}
-30°C (-22°F)	280	V _{peak}

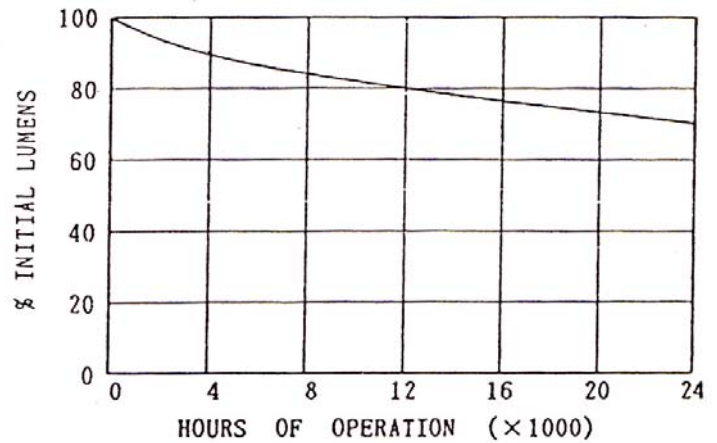
BEAM CHARACTERISTICS

Beam Lumens (0-65°)	14000	lm
Axial Beam Intensity (0°)	4000	cd
Beam Spread	130	deg

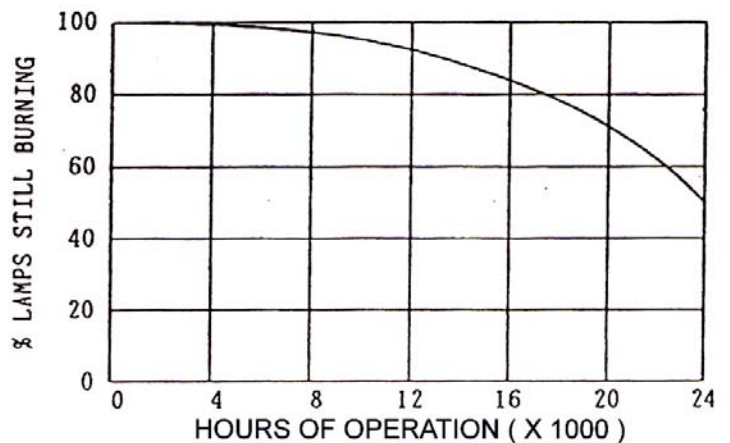
PHYSICAL DESCRIPTION

Maximum overall length	316 (12.4)	mm (in)
Bulb diameter	180 (7.1)	mm (in)
Base to bulb eccentricity (max)	4	deg
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb material	Borosilicate (Hard Glass)	
Bulb designation	RD40	
Bulb finish	Phosphor Coated	
Base designation	Medium	
Luminaire requirements	Cover for direct exposure	

LUMEN MAINTENANCE



LAMP MORTALITY



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

A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.

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HRF400PD

⚠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

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



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