



TECHNICAL BULLETIN

Mercury Vapor Lamp

Mercury Vapor Reflector Lamp HRFF100PD

ANSI Code: H38

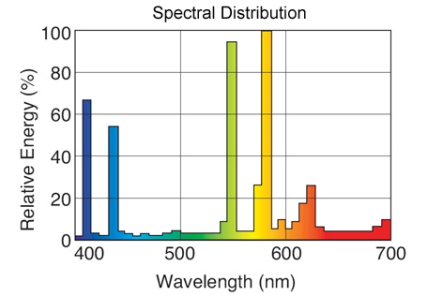
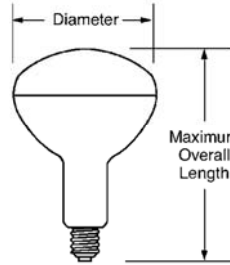
Product Code: 71289

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. | |

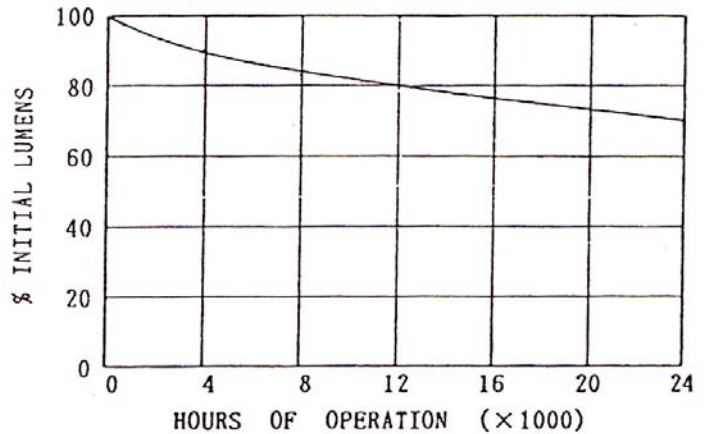
BALLAST REQUIREMENTS

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

BEAM CHARACTERISTICS

| | | |
|---------------------------|------|-----|
| Beam Lumens (0-55°) | 2100 | lm |
| Axial Beam Intensity (0°) | 850 | cd |
| Beam Spread | 110 | deg |

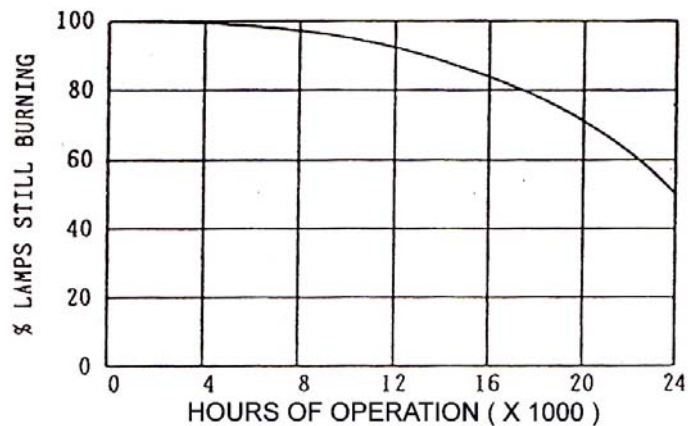
LUMEN MAINTENANCE



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) | °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 | |

LAMP MORTALITY



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

A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.

EQS-N-52-78-71289

Address: 9150 Hendricks Rd., Mentor, OH 44060

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TB HRFF100PD March 23, 2004



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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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