



# TECHNICAL BULLETIN

## Mercury Vapor Lamp

### Mercury Vapor Reflector Lamp HRFF175PD

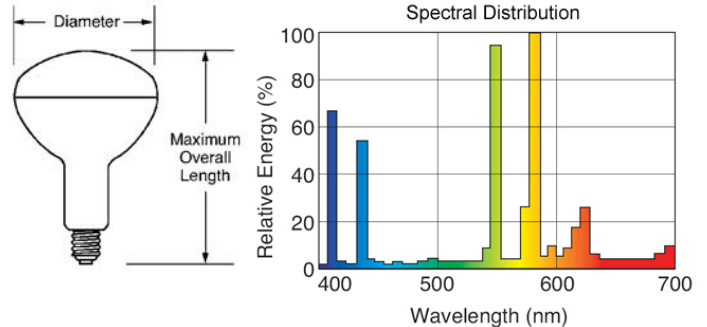
ANSI Code: H39

Product Code: 71338

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

### PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	5300	lm
Mean lumens	4240	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	175	W
Nominal lamp voltage	130	V
Nominal lamp current	1.5	Arms
Max. starting current	3.25	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°)	3000	lm
Axial Beam Intensity (0°)	1500	cd
Beam Spread	110	deg

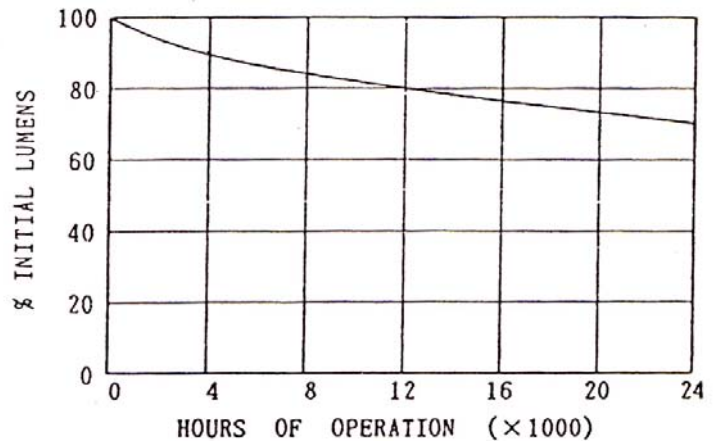
### PHYSICAL DESCRIPTION

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	

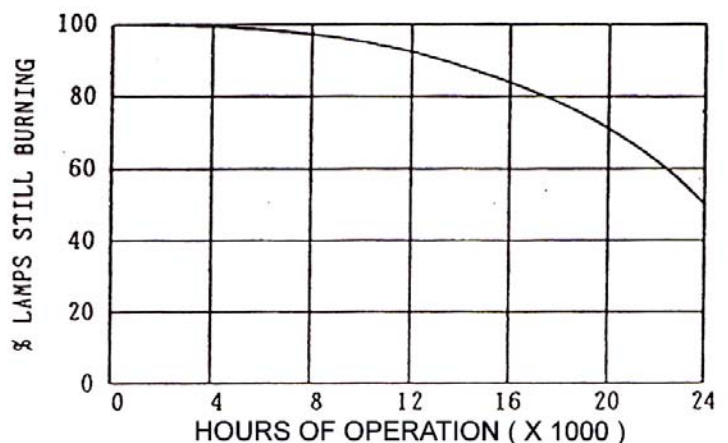
### FIXTURE REQUIREMENT

Enclosed Fixture Required

### LUMEN MAINTENANCE



### LAMP MORTALITY



ISO 9001:2008 Certified ISO 14001:2004 Certified

OSHAS 18001:2007 Certified ISO 17025:2005 Accredited



**EYE LIGHTING INTERNATIONAL  
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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.

<b>R</b>	Conforms to: USA: 21CFR1040.30 Canada: ANSI 136.1-2000
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- LAMP CONTAINS MERCURY. Manage in Accord with Disposal Laws. See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-888-665-2677.

