



# TECHNICAL BULLETIN

## Mercury Vapor Lamp

# Mercury Vapor Reflector Lamp

## HR175W

ANSI Code: H39

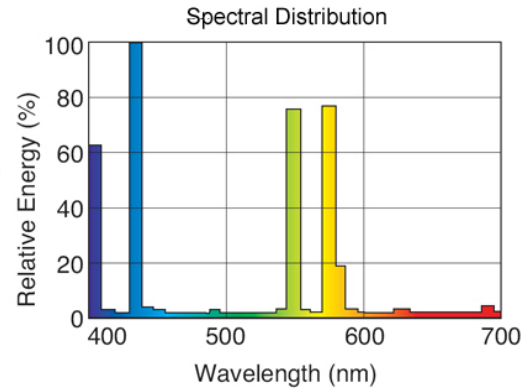
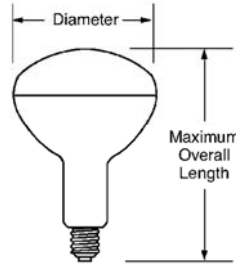
Product Code: 70799

**Features:**

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

### PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	5800	lm
Mean lumens	4640	lm
Average life	24000	h
Warm up time (90% lumens)	4	min
Correlated color temperature	5700	K
CIE chromaticity	.327, .381	x, y
Color rendering index	25	
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 <sub>rms</sub>
-30°C (-22°F)	280	V <sub>peak</sub>

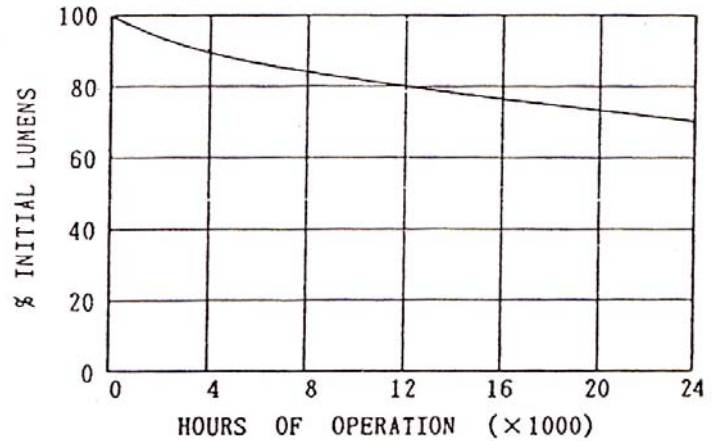
#### BEAM CHARACTERISTICS

Beam Lumens (0-50°)	3700	lm
Axial Beam Intensity (0°)	2200	cd
Beam Spread	100	deg

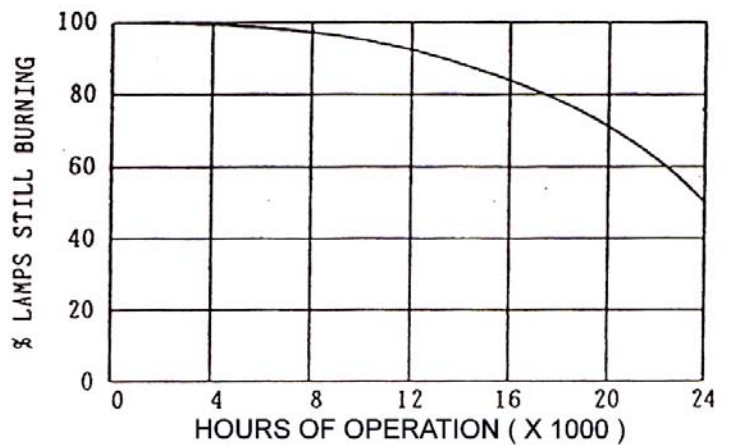
### PHYSICAL DESCRIPTION

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	190 (374)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb material	Borosilicate (Hard Glass)	
Bulb designation	RD40	
Bulb finish	Diffused	
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.

EQS-N-52-78-70799

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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

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



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