



TECHNICAL BULLETIN

Mercury Vapor Lamp

Mercury Vapor Reflector Lamp HR100W

ANSI Code: H38

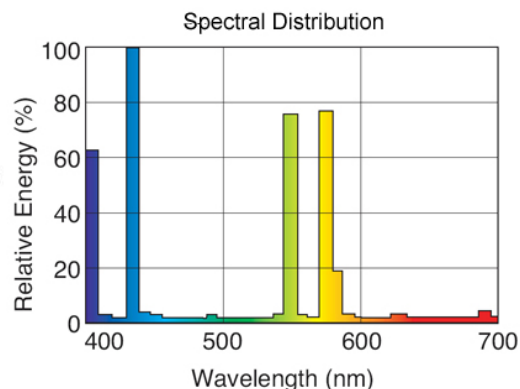
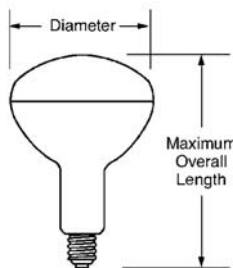
Product Code: 70750

Features:

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

PERFORMANCE DATA

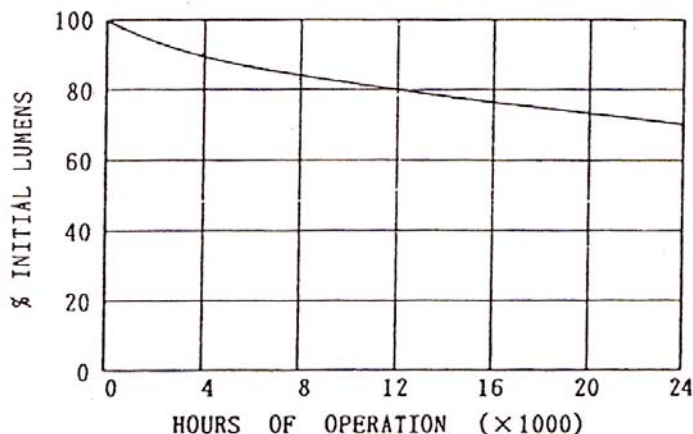
Initial lumens at rated watts after 100 hours operation	3100	lm
Mean lumens	2480	lm
Average life	24000	h
Warm up time (90% lumens)	4	min
Correlated color temperature	5700	K
CIE chromaticity	.327, .381	x, y
Color rendering index	25	
Operating Position	ANY	
Time to hot re-start	10	min



ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	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 (0-50°)	2000	lm
Axial Beam Intensity (0°)	1250	cd
Beam Spread	100	deg

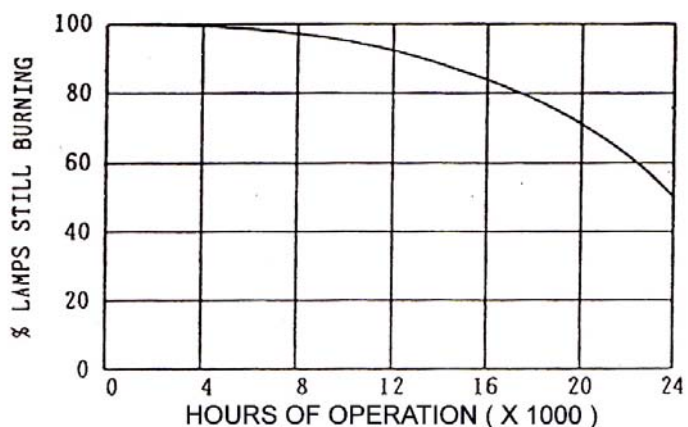
LUMEN MAINTENANCE



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	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	

LAMP MORTALITY



FIXTURE REQUIREMENT

Enclosed Fixture Required

ISO 9001:2008 Certified

ISO 14001:2004 Certified

OSHAS 18001:2007 Certified

ISO 17025:2005 Accredited



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HR100W

⚠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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