TECHNICAL BULLETIN

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 Vrms
- -30°C (-22°F) 280 Vpeak

Beam characteristics:
- Beam Lumens (0-50º): 3700 lm
- Axial Beam Intensity (0º): 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) ºC (ºF)
Maximum bulb temperature: 400 (752) ºC (ºF)
Bulb material: Borosilicate (Hard Glass)
Bulb designation: RD40
Bulb finish: Diffused
Base designation: Medium

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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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.

Conforms to: