



# TECHNICAL BULLETIN

## PULSE START MERCURY VAPOR LAMP

Moon Pulse  
HR100PS/RD40

ANSI Code: Rated for ANSI M90 Metal Halide Ballast

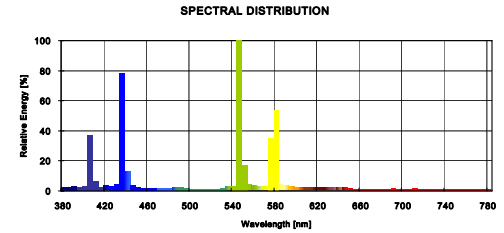
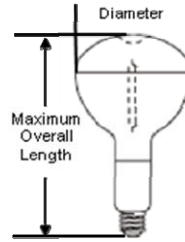
Product Code: 70970

**Features:**

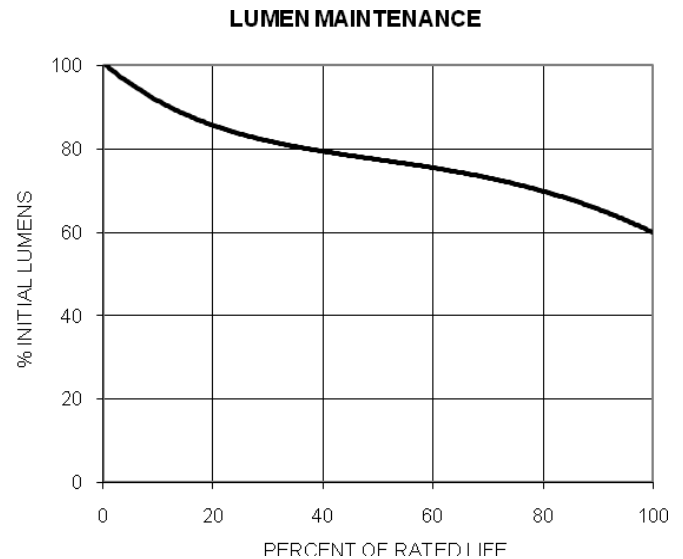
- Long life
- Nickel-plated base
- Rugged construction

- Applications, Landscape

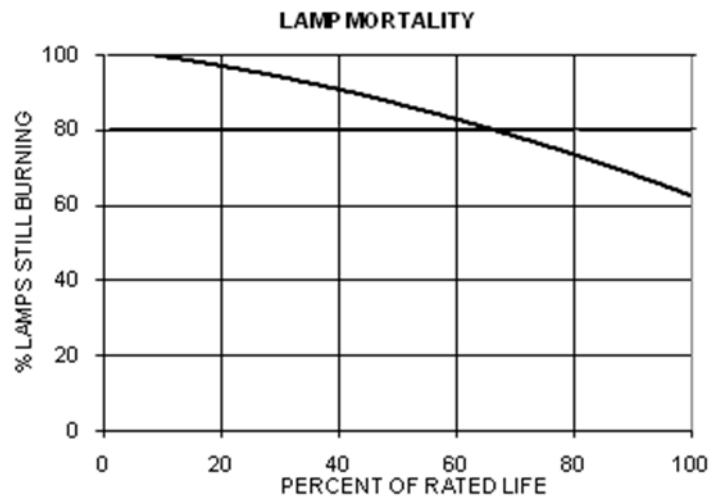
PERFORMANCE DATA		
Initial lumens at rated watts after 100 hours operation	3100	lm
Mean lumens at 11 hours/start	2500	lm
Rated average life	10000	h
Warm up time (90% lumens)	4	min
Correlated color temperature	5800	K
CIE chromaticity	0.323, 0.385	X, Y
Color rendering index	17	
Operating position	Universal	
Time to hot re-start (max)	10	min



ELECTRICAL CHARACTERISTICS		
Nominal lamp wattage	100	W
Nominal lamp voltage	100	V <sub>rms</sub>
Nominal lamp current	1.1	A <sub>rms</sub>
Current crest factor	1.8	
<b>Ballast requirements</b>	<b>Use with ballast rated for ANSI M90 lamps</b>	
Open circuit voltage	235	V <sub>peak</sub>
-30°C (-22°F)	332	V <sub>rms</sub>
Min. starting current	1.1	A <sub>rms</sub>
Max. starting current	1.50	A <sub>rms</sub>



PHYSICAL DESCRIPTION		
Effective arc length	N/A	mm (in)
Maximum overall length	203 (8.0)	mm (in)
Light center length	N/A	mm (in)
Bulb diameter	125 (5.0)	mm (in)
Base to bulb eccentricity (max)	3°	max
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb designation	RD40 (R126)	
Bulb material	Borosilicate glass (Hard glass)	
Arc tube material	Quartz	
Bulb finish	Frosted	
Base designation	E26	



ISO 9001:2008 Certified ISO 14001:2004 Certified OHSAS 18001:2007 Certified ISO 17025:2005 Accredited



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

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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.

