



TECHNICAL BULLETIN

HIGH PRESSURE SODIUM

EYE HORTILUX™ SUPER HPS LUR400S/HTL

ANSI Code: S51

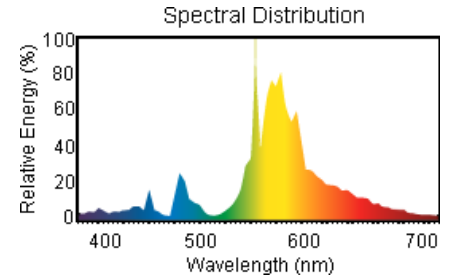
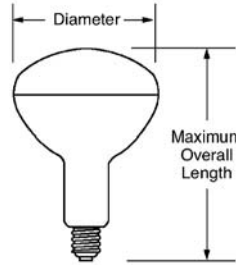
Product Code: 64609

Features:

- Provides optimum spectral energy levels that promote vigorous plant growth
- Universal burning position
- Dependable long life

PERFORMANCE DATA

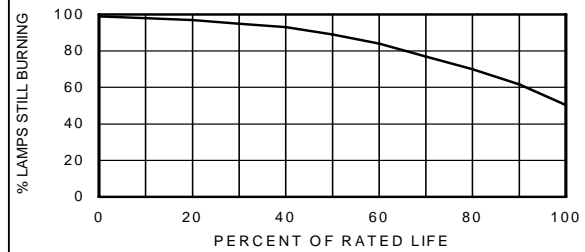
Initial lumens at rated watts after 100 hours operation	36000	Lm
Mean lumens at 10 hours/start	24600	Lm
Rated average life	24000	H
Warm up time (90% lumens)	4	Min
Correlated color temperature	2100	K
CIE chromaticity	0.523, 0.422	X, Y
Color rendering index	25	
Operating Position	Any	
Hot Re-strike time	15	Min



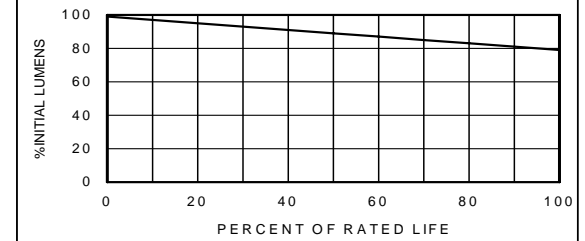
ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	400	W
Nominal lamp voltage	100	V
Nominal lamp current	4.6	A _{rms}
Current crest factor (max.)	1.8	
Max. starting current	7.5	A _{rms}
Min. starting current	4.6	A _{rms}
Ballast requirements	Use with ballast rated for S51 lamps	
OPEN CIRCUIT VOLTAGE		
-40°C (-40°F)	198	V _{rms}
Lampholder rating	4	kV
IGNITOR REQUIREMENTS		
Min. Pulse Height	2500	v
Max. Pulse Height	4000	v
Min. Pulse Width	1.0@2250	µsec@V

LAMP MORTALITY

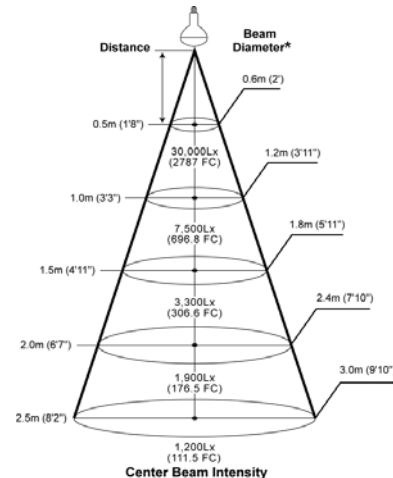


LUMEN MAINTENANCE



PHYSICAL DESCRIPTION

Maximum overall length	316 (12.441)	mm (in)
Light center length	N/A	mm (in)
Bulb diameter	180 (7.087)	mm (in)
Base to bulb eccentricity (max.)	3	Degrees
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb designation	R57	
Bulb material	Borosilicate (Hard Glass)	
Arc tube material	PCA	
Arc length	N/A	mm (in)
Bulb finish	Reflector	
Base designation	Mogul (E39)	
EPA TCLP Compliant	No	



* The illuminance level at the outer edge of the beam diameter is 50% of the Lux (Lx) reading

ISO 9001:2008 Certified ISO 14001:2004 Certified
EYE LIGHTING INTERNATIONAL
OF NORTH AMERICA, INC.
 A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.

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⚠ WARNING

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 fixture and ballast rated for this product.
- Electrically insulate any metal to glass support in fixture.

⚠ CAUTION

RISK OF BURN:

- Allow lamp to cool before handling.
- Contains sodium – Avoid skin contact with broken pieces.

LAMP MAY SHATTER AND CAUSE INJURY IF BROKEN

- Do not use excessive force when installing lamp.
- Dispose of lamp in an enclosed container.
- Wear safety glasses and gloves when installing lamp.

Hg-LAMP CONTAINS MERCURY
Manage in Accord with Disposal Laws
See: www.lamprecycle.org or 1-888-665-2677

