



TECHNICAL BULLETIN HIGH PRESSURE SODIUM

EYE HORTILUX™ SUPER HPS LU400S/HTL/EN

ANSI Code: S51

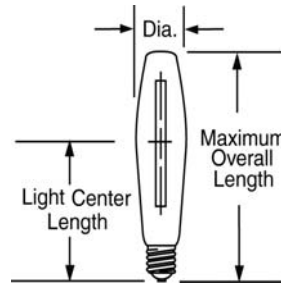
Product Code: 66620

Features:

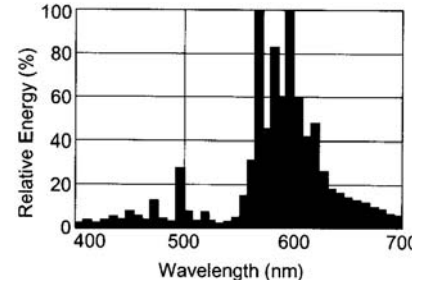
- EPA TCLP compliant for non-hazardous waste
- Dependable long life
- Universal burning position

PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	55000	Lm
Mean lumens at 10 hours/start	49000	Lm
Rated average life	24000	H
Warm up time (90% lumens)	5	Min
Correlated color temperature	2100	K
CIE chromaticity	0.532, 0.403	X, Y
Color rendering index	23	
Operating Position	Any	
Hot Re-strike time	15	Min



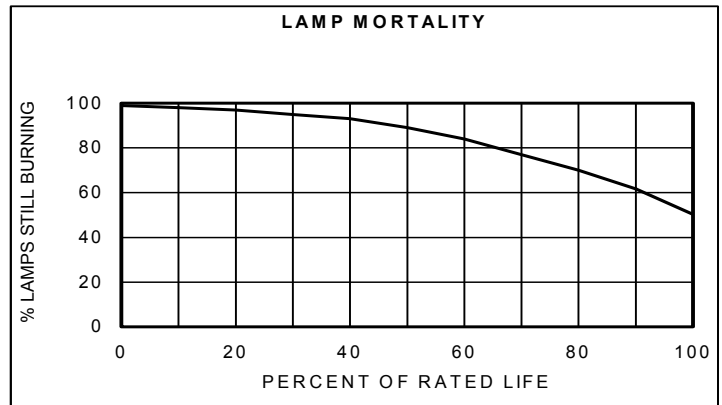
Spectral Distribution



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

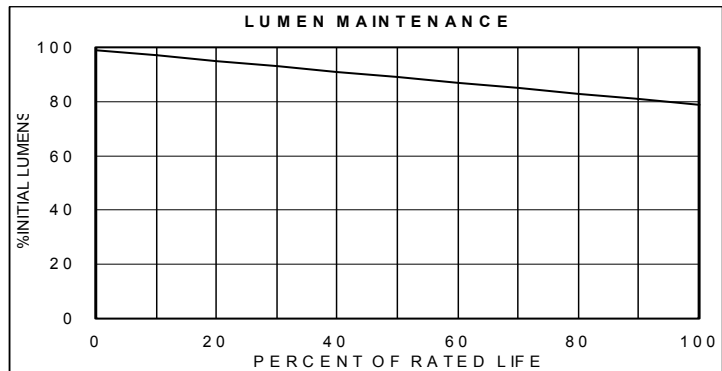
LAMP MORTALITY



PHYSICAL DESCRIPTION

Maximum overall length	248 (9.764)	mm (in)
Light center length	146 (5.748)	mm (in)
Bulb diameter	57 (2.244)	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	ET18	
Bulb material	Borosilicate (Hard Glass)	
Arc tube material	PCA	
Arc length	82.7 (3.256)	mm (in)
Bulb finish	Clear	
Base designation	Mogul (E39)	
EPA TCLP Compliant	Yes	

LUMEN MAINTENANCE



**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

