



TECHNICAL BULLETIN HIGH PRESSURE SODIUM

EYE HORTILUX™ SUPER HPS LU400S/HTL/EN

ANSI Code: S51

Product Code: 66620

Features:

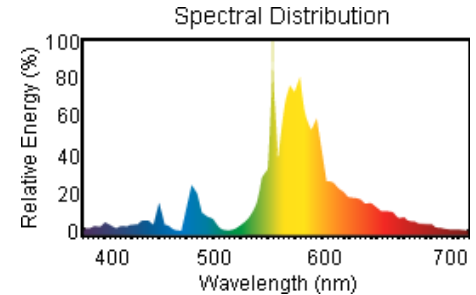
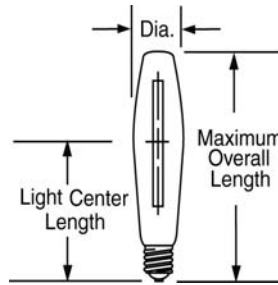
- EPA TCLP compliant for non-hazardous waste
- Dependable long life
- Universal burning position



Environmentally Friendly-
Reduced Mercury and 100% lead free!

PERFORMANCE DATA

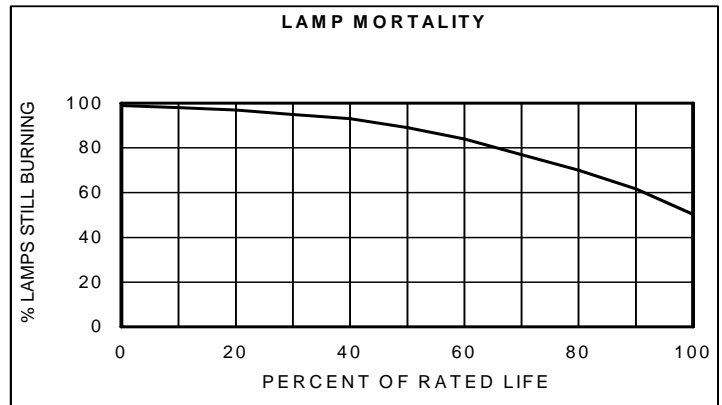
| | | |
|---|--------------|------|
| Initial lumens at rated watts after 100 hours operation | 55000 | Lm |
| Mean lumens at 10 hours/start | 49000 | Lm |
| Rated average life | 24000 | H |
| Warm up time (90% lumens) | 5 | Min |
| Correlated color temperature | 2100 | K |
| CIE chromaticity | 0.532,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



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 |

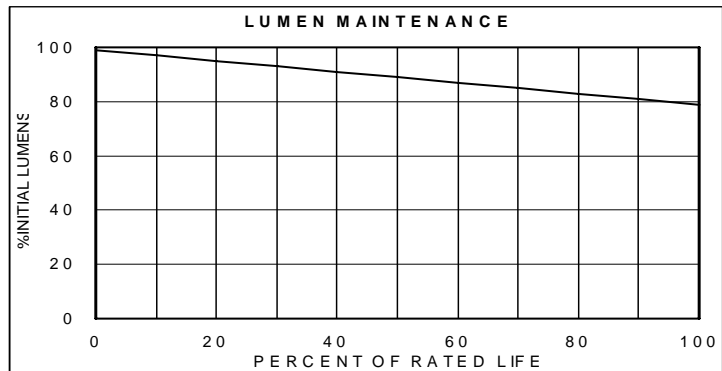
LAMP MORTALITY



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



ISO 9001:2000 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

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