



# TECHNICAL BULLETIN

## HIGH PRESSURE SODIUM

**Ignitron™ EN**  
**LU400/I/EN**

ANSI Code: S51

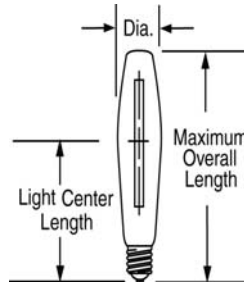
Product Code: 60110

<b>Features:</b>	<ul style="list-style-type: none"> <li>Eliminates the need for replacement ignitor</li> <li>EPA TCLP compliant for non-hazardous waste</li> <li>FEC protects lighting system components</li> <li>Dependable long life</li> </ul>	<ul style="list-style-type: none"> <li>Universal burning position</li> <li>Eliminates possible damage to ballast</li> <li>Energy saving lamps available</li> </ul>
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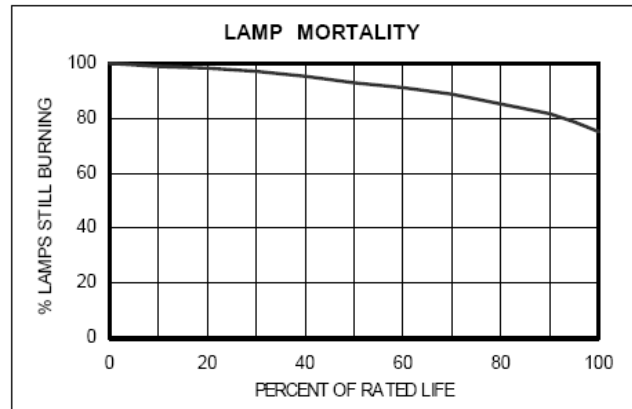
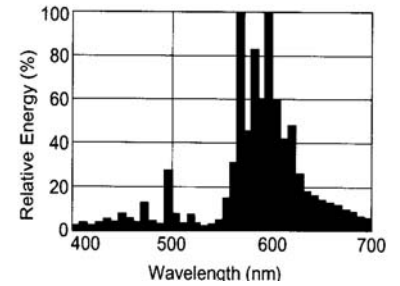
PERFORMANCE DATA		
Initial lumens at rated watts after 100 hours operation	50000	Lm
Mean lumens at 10 hours/start	45000	Lm
Rated average life	30000	H
Warm up time (90% lumens)	5	Min
Correlated color temperature	2100	K
CIE chromaticity	0.532, 0.403	X, Y
Color rendering index	25	
Operating Position	Any	
Hot Re-strike time	15	Min

EPA TCLP Compliant	Yes
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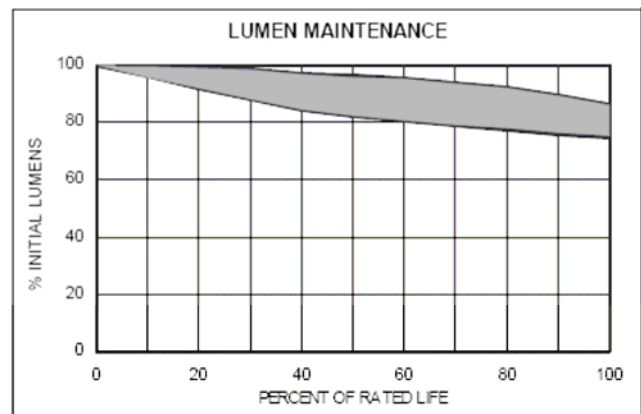
ELECTRICAL CHARACTERISTICS		
Nominal lamp wattage	400	W
Nominal lamp voltage	100	V
Nominal lamp current	4.6	A <sub>rms</sub>
Current crest factor (max.)	1.8	
Max. starting current	7.5	A <sub>rms</sub>
Min. starting current	4.6	A <sub>rms</sub>
Ballast requirements	Use with ballast rated for S51 lamps	
Open circuit voltage		
-40°C (-40°F)	168 (237)	V <sub>rms</sub> (V <sub>peak</sub> )
Pulse requirements	External pulse not required	
Pulse Height/Number of pulses	Not Applicable	kV
Pulse Width	Not Applicable	μs
Socket rating	4	kV



Spectral Distribution



PHYSICAL DESCRIPTION		
Maximum overall length	248 (9.75)	mm (in)
Light center length	146 (5.75)	mm (in)
Bulb diameter	57 (2.25)	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	85 (3.34)	mm (in)
Bulb finish	Clear	
Base designation	Mogul (E39)	



ISO 9001:2000 Certified    ISO 14001:2004 Certified

**EYE LIGHTING INTERNATIONAL**  
**OF NORTH AMERICA, INC.**  
A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.

OSHA 18001:1999 Certified    ISO 17025:2005 Accredited

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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.

**LAMP OPERATING INSTRUCTIONS**

IGNITRON LAMPS CONTAIN AN INTERNAL IGNITOR.  
TO INSURE PROPER LAMP OPERATION AND MAINTAIN  FIXTURE LISTING, DISABLE  
THE FIXTURE IGNITOR AS PER INSTRUCTIONS LOCATED ON OUR WEBSITE:  
[www.eyelighting.com](http://www.eyelighting.com), "Luminaire Conversions Retrofit Instructions."

**Hg-LAMP CONTAINS MERCURY**

Manage in Accord with Disposal Laws  
See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-888-665-2677

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