



# TECHNICAL BULLETIN HIGH PRESSURE SODIUM

## EYE HORTILUX™ SUPER HPS LU430S/HTL/EN

ANSI Code: S145

Product Code: 66685

**Features:**

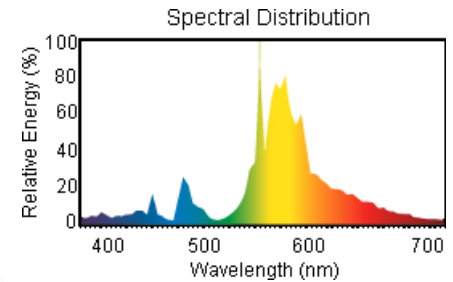
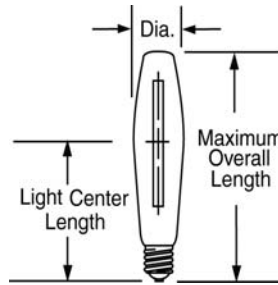
- EPA TCLP compliant for non-hazardous waste
- Dependable long life
- Universal burning position



*Environmentally Friendly-*  
Reduced Mercury and 100% lead free!

### PERFORMANCE DATA

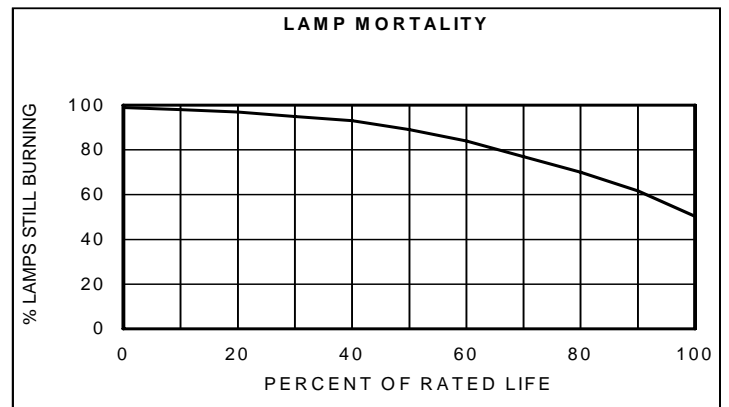
Initial lumens at rated watts after 100 hours operation	58500	Lm
Mean lumens at 10 hours/start	52000	Lm
Rated average life	16000	H
Warm up time (90% lumens)	5	Min
Correlated color temperature	2100	K
CIE chromaticity	0.532, 0.403	X, Y
Color rendering index	25	
Operating Position	Any	
Hot Re-strike time	15	Min



### ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	430	W
Nominal lamp voltage	115	V
Nominal lamp current	4.20	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 S145 lamps	
<b>OPEN CIRCUIT VOLTAGE</b>		
-40°C (-40°F)	198	V <sub>rms</sub>
Lampholder rating	4	kV
<b>IGNITOR REQUIREMENTS</b>		
Min. Pulse Height	2500	v
Max. Pulse Height	4000	v
Min. Pulse Width	1.0@2250	µsec@V

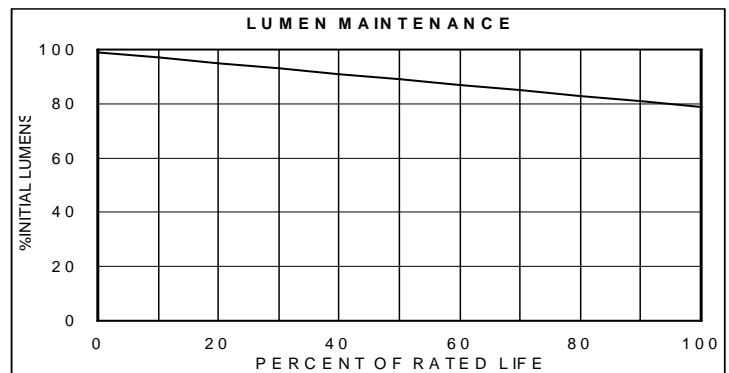
### LAMP MORTALITY



### 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 9001:2008 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](http://www.lamprecycle.org) or 1-888-665-2677

