



# TECHNICAL BULLETIN

## HPS / METAL HALIDE

**EYE HORTILUX™**  
**LU1000MH/HTL/EN**

**ANSI Code:** Use with ballast rated for ANSI S52 lamp

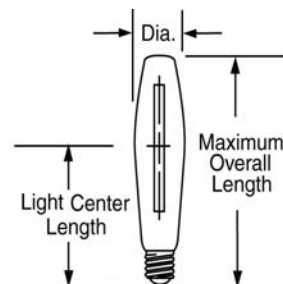
**Product Code:** 62800

**Features:**

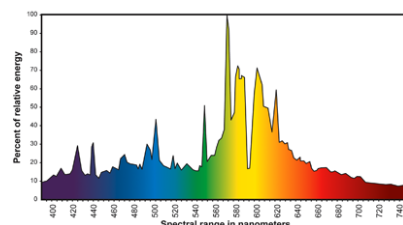
- Super HPS (High Pressure Sodium) arc tube and Metal Halide Blue arc tube in one lamp
- Horizontal Burn Position
- The benefits of HPS and Metal Halide together: vigorous vegetative growth, accelerated growth and hearty flowering!

### PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	110000	lm
Mean lumens at 10 hours/start	85,000	lm
Rated average life at 10hrs/start	10,000	h
Warm up time, maximum	8	min
Correlated color temperature	3000	K
CIE chromaticity	.424, .386	X, Y
Color rendering index (Ra)	65	
Operating Position	HOR +/- 30 deg.	
Time to hot re-start, maximum	15 max.	min



Spectral Distribution for LU1000MH/HTL/EN



### ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	1000	W
Nominal lamp voltage	260	V
Nominal lamp current	4.2	A <sub>rms</sub>
Maximum current crest factor	1.8	-
Maximum starting current	8.0	A <sub>rms</sub>
Minimum starting current	4.7	A <sub>rms</sub>
Ballast requirements	Use with ballast rated for ANSI S52 lamp	
Open circuit voltage (CWA) -30°C (-22°F)	435	V <sub>rms</sub>
	730	V <sub>peak</sub>
Pulse requirements	3kV minimum, 5kV maximum	

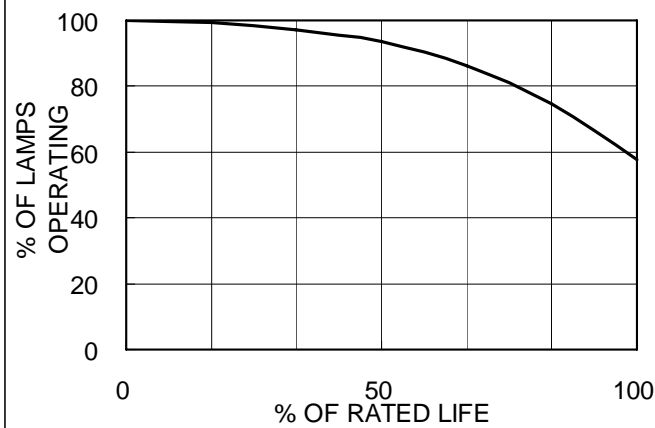
### PHYSICAL DESCRIPTION

Maximum overall length	383 (15.079)	mm (in)
Light center length	222 (8.740)	mm (in)
Bulb diameter	79 (3.110)	mm (in)
Max. base - bulb eccentricity	3 max.	Degrees
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb designation	E25	
Bulb material	Borosilicate (Hard Glass)	
Arc tube material	Quartz and PCA	
Bulb finish	Clear	
Base designation	E39 Mogul	
EPA TCLP Compliant	Yes	

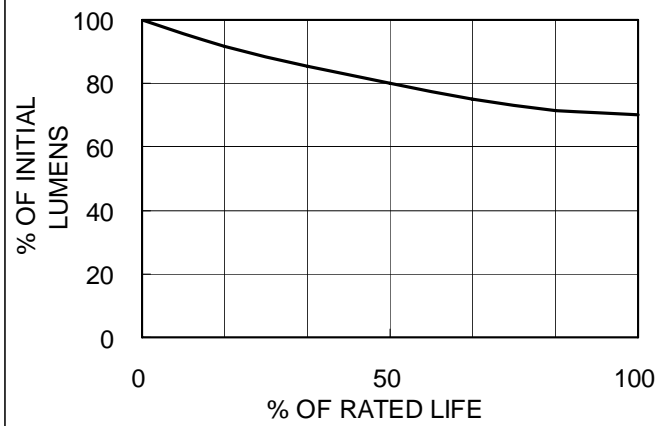
### FIXTURE REQUIREMENT

E Rated - Enclosed fixture required

### LAMP MORTALITY



### LUMEN MAINTENANCE



ISO 9001:2000 Certified



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

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www.eyehortilux.com

E-Mail: sales@eyehortilux.com  
Web: www.eyelighting.com



**⚠ WARNING**

This lamp can cause serious skin burn and eye inflammation from short-wave ultraviolet radiation if outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.

**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 a fixture and ballast rated for this product
- Turn lamp off at least once a week for 15 minutes
- 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**

- Do not use excessive force when installing lamp
- Dispose of lamp in a closed container
- Wear safety glasses and gloves when installing lamp

**LAMP OPERATING INSTRUCTIONS**

This is a discharge lamp and requires some time to restart and come up to full brightness after a power interruption. If power supply dips or is interrupted, lamps may extinguish and not restart. Turn off power supply for 10-15 minutes and allow lamp to fully cool. Lamp will restart when power is restored.

**R**

Conforms to:  
USA: 21CFR1040.30

**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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