



# TECHNICAL BULLETIN METAL HALIDE

**EYE Cera Arc®**  
**CMT250/HOR/940/LU/MOG**

**ANSI Code:** Use with ballast rated for ANSI S50 lamp

**Product Code:** 55108

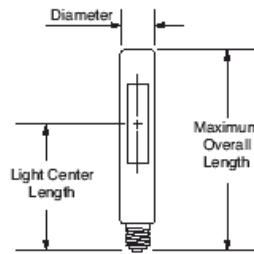
**Features:**

High Color Rendering; CRI 90  
Color Temperature; 4000K  
Operates on Standard High Pressure Sodium Ballast

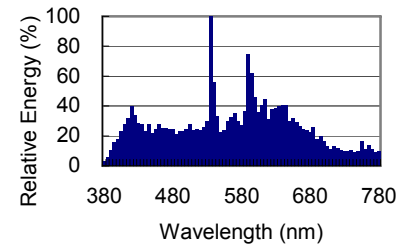
Horizontal Operating Position  
High Maintained Lumen  
Tubular Compact Design

### PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	22500	lm
Mean lumens at 10 hours/start	19400	lm
Rated average life at 10hrs/start	15000	h
Warm up time, maximum	4	min
Correlated color temperature	4000	K
CIE chromaticity	0.378, 0.370	X, Y
Color rendering index (Ra)	90	
Operating Position	Horizontal ±30°	
Time to hot re-start, maximum	20 max.	min



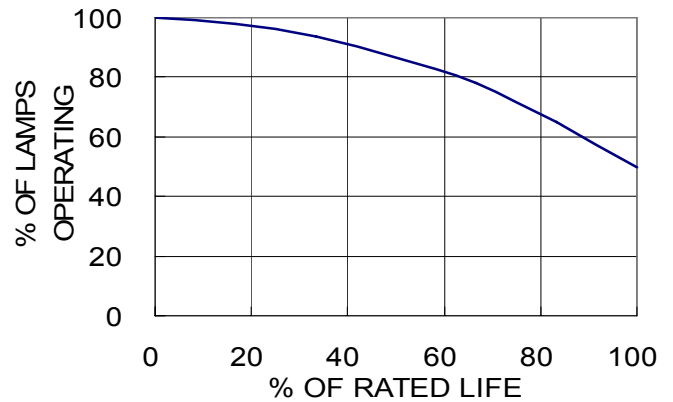
### SPECTRAL DISTRIBUTION



### ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	250	W
Nominal lamp voltage	100	V
Nominal lamp current	3.0	A <sub>rms</sub>
Maximum current crest factor	1.8	-
Maximum starting current	4.5	A <sub>rms</sub>
Minimum starting current	3.0	A <sub>rms</sub>
Ballast requirements (LAG)	Use with ballast rated for ANSI S50 lamp	
Open circuit voltage -30°C (-22°F)	198	V <sub>rms</sub>
	280	V <sub>peak</sub>
Pulse requirements		
Pulse height	2.5-4.0	KV
Pulse width	1@2.25	µsec@kV

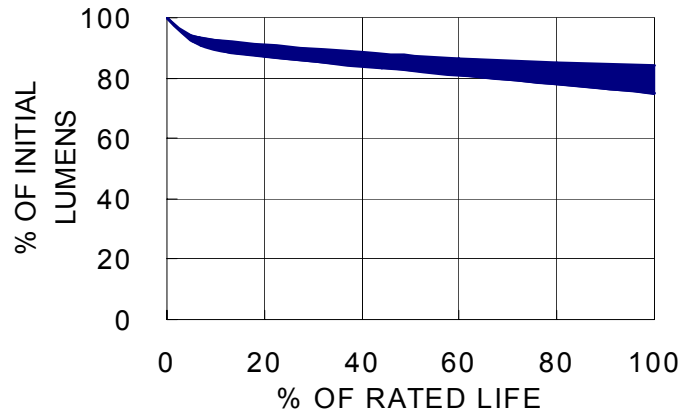
### LAMP MORTALITY



### PHYSICAL DESCRIPTION

Maximum overall length	216 (8.504)	mm (in)
Light center length	146 (5.748)	mm (in)
Bulb diameter	48 (1.890)	mm (in)
Max. base - bulb eccentricity	3 max.	Degrees
Maximum base temperature	230 (446)	°C (°F)
Maximum bulb temperature	470 (878)	°C (°F)
Bulb designation	T15	
Bulb material	Borosilicate (Hard Glass)	
Arc tube material	PCA	
Effective arc length	15 (0.591)	mm (in)
Bulb finish	Clear (UV-block coating)	
Base designation	E39 Mogul	

### LUMEN MAINTENANCE



### FIXTURE REQUIREMENT

E Rated – Enclosed Fixture Required

ISO 9001:2000 Certified



**EYE LIGHTING INTERNATIONAL  
OF NORTH AMERICA, INC.**

A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.

EQS-N-52-78-55108

Address: 9150 Hendricks Rd., Mentor, OH 44060

Phone: 888-665-2677 Fax: 800-811-7395 e-mail: sales@eyelighting.com

Phone: (440) 350-7000 Fax: (440) 350-7001 [www.eyelighting.com](http://www.eyelighting.com)

12/7/2006



**⚠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 30 minutes
- Electrically insulate any metal to glass support in fixture

**⚠CAUTION**

**RISK OF BURN**

- Allow lamp to cool before handling.

**LAMP MAY SHATTER AND CAUSE INJURY**

- Do not use excessive force when installing lamp
- Dispose of lamp in a closed container

**LAMP OPERATING INSTRUCTIONS**

This is a discharge lamp and requires some time to restart and come up to full brightness after a power interruption.

<b>R</b>	Conforms to: USA: 21CFR1040.30
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**Hg-LAMP CONTAINS MERCURY**

Manage in Accord with Disposal Laws

See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-888-665-2677

**The lamp contains an arctube with filling gas containing Kr-85 and is distributed by EYE Lighting.**

ISO 9001:2000 Certified



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