



# TECHNICAL BULLETIN METAL HALIDE

## EYE Cera Arc® CMT70/U/930/G8.5

ANSI Code: For use with specified M/C139 electronic ballast\*

Product Code: 55134

- Features:**
- High Color Rendering; CRI 90
  - High efficacy
  - Excellent lumen maintenance
  - UV-cut coating
  - Superior lamp to lamp color consistency
  - Color temperature 3000K

### PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	7500	Lumens
Mean lumens at 10 hours/start	6375	Lumens
Rated average life	15000	Hours
Warm up time (90% lumens)	4	Minutes
Correlated color temperature	3000	K
CIE chromaticity	0.44, 0.40	X, Y
Color rendering index	90	
Operating Position	Universal	
Time to hot re-start	15 max	Minutes

### ELECTRICAL CHARACTERISTICS

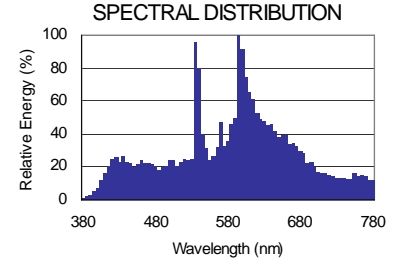
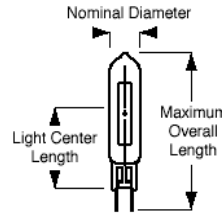
Nominal lamp wattage	70	Watts	
Nominal lamp voltage	85	Volts	
Nominal lamp current	0.82	Amps	
Current crest factor	1.8 max		
Min. open circuit voltage	198	Vrms	
	280	Vpeak	
Max. Starting current	1.89	Amps	
Pulse requirements	Option 1	Option 2	
Pulse height	3.0-4.0	3.0-4.0	kV
Pulse width	1.9@2.7	1.0@2.7	µsec@kV
Mini. Pulse repetition	1	2	/half cycle
Pulse positions	60-95, 240-275	64-110, 244-290	degrees
Dimming capability	No		

### PHYSICAL DESCRIPTION

Maximum overall length	3.35(85)	in (mm)
Light center length	2.05(52)	in (mm)
Bulb diameter (Max)	0.59(15)	in (mm)
Effective arc length	0.20(5)	in (mm)
Base to bulb eccentricity	2	Deg Max.
Maximum base temperature	536(280)	°F (°C)
Maximum bulb temperature	1112(600)	°F (°C)
Bulb designation	T4.5	
Bulb material	Quartz glass	
Arc tube material	PCA	
Bulb finish	Clear (UV cut coating)	
Base designation	G8.5	

### FIXTURE REQUIREMENT

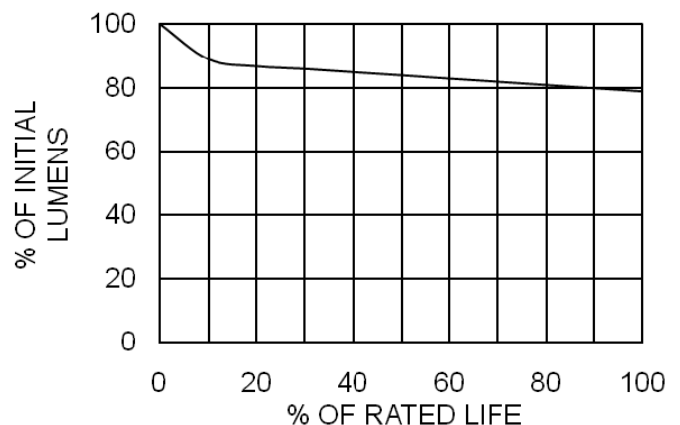
E Rated- Enclosed fixtures.



### LAMP MORTALITY



### LUMEN MAINTENANCE



\* Specified ballast only. Call EYE lighting for detail.

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**

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.

**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.

**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