



TECHNICAL BULLETIN METAL HALIDE

EYE Cera Arc® CMT70/U/942/G12

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

Product Code: 55147

Features:

- High Color Rendering; CRI 94
- High efficacy
- Excellent lumen maintenance
- UV-cut coating
- Superior lamp to lamp color consistency
- Color temperature 4200K

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	4200	K
CIE chromaticity	0.37, 0.37	X, Y
Color rendering index	94	
Operating Position	Universal	
Time to hot re-start	15 max	Minutes

ELECTRICAL CHARACTERISTICS

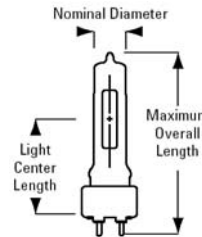
Nominal lamp wattage	70	Watts	
Nominal lamp voltage	85	Volts	
Nominal lamp current	0.82	Amps	
Current crest factor	1.4 max		
Min. open circuit voltage	198	Vrms	
	280	Vpeak	
Max. Starting current	1.89	Amps	
Pulse requirements	Option 1	Option 2	
Pulse height	3.0-4.0	3.0-4.0	kV
Pulse width	1.9@2.7	1.0@2.7	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

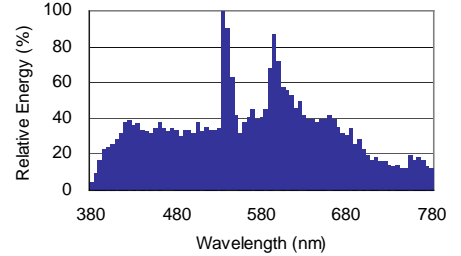
Maximum overall length	4.06(103)	in (mm)
Light center length	2.21(56)	in (mm)
Bulb diameter (Max)	0.79(20)	in (mm)
Effective arc length	0.24(6)	in (mm)
Base to bulb eccentricity	2	Deg Max.
Maximum base temperature	536(280)	°F (°C)
Maximum bulb temperature	1202(650)	°F (°C)
Bulb designation	T6	
Bulb material	Quartz glass	
Arc tube material	PCA	
Bulb finish	Clear (UV cut coating)	
Base designation	G12	

FIXTURE REQUIREMENT

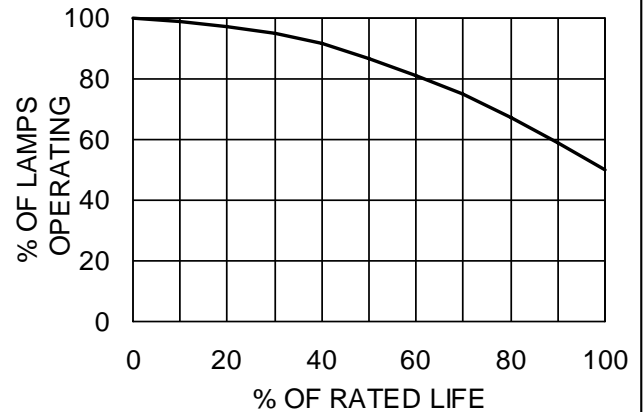
E Rated— Enclosed fixtures.



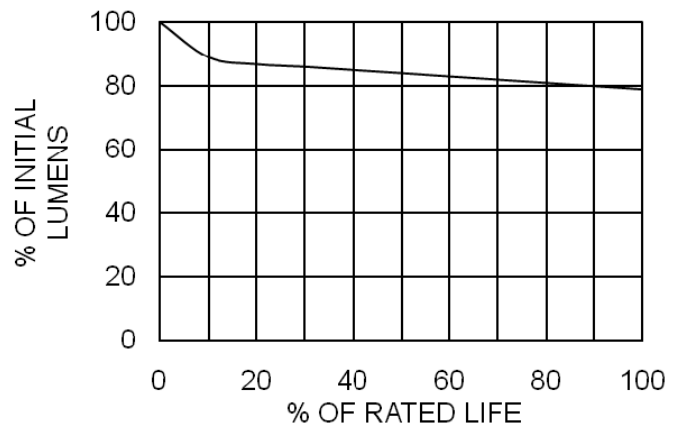
SPECTRAL DISTRIBUTION



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.

OSHAS 18001:2007 Certified ISO 17025:2005 Accredited
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 Phone: 888-66-LAMPS Fax: 800-811-7395 E-Mail: sales@eyelighting.com
 Phone: (440) 350-7000 Fax: (440) 350-7001 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.

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.

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Conforms to:
USA: 21CFR1040.30

Hg-LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws

See: www.lamprecycle.org or 1-888-665-2677