



TECHNICAL BULLETIN METAL HALIDE

EYE Cera Arc®
CMTPF70/U/NR936/MED

ANSI Code: For use with specified M139 ballast*

Product Code: 55181

Features:

- High Color Rendering; CRI 92 R9 70
- High efficacy
- Excellent lumen maintenance
- UV-cut coating
- Superior lamp to lamp color consistency

PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	4900	Lumens
Mean lumens at 10 hours/start	3675	Lumens
Rated average life	9000	Hours
Warm up time (90% lumens)	4	Minutes
Correlated color temperature	3600	K(Reference)
CIE chromaticity	0.38, 0.36	X, Y
Color rendering index	CRI=92 R9=70	
Operating Position	Universal	
Time to hot re-start	15 max	Minutes

ELECTRICAL CHARACTERISTICS

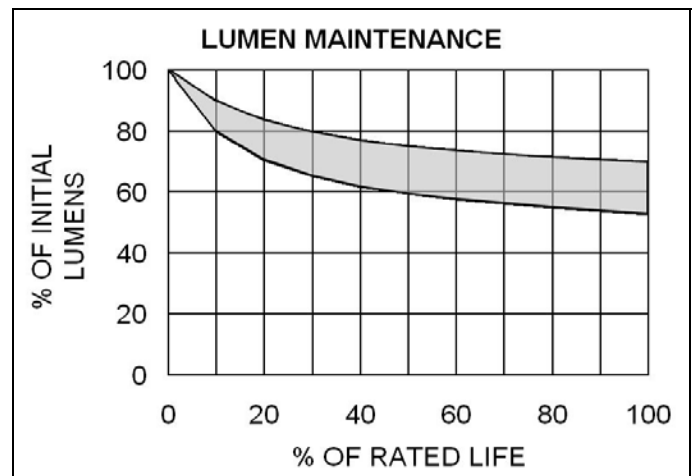
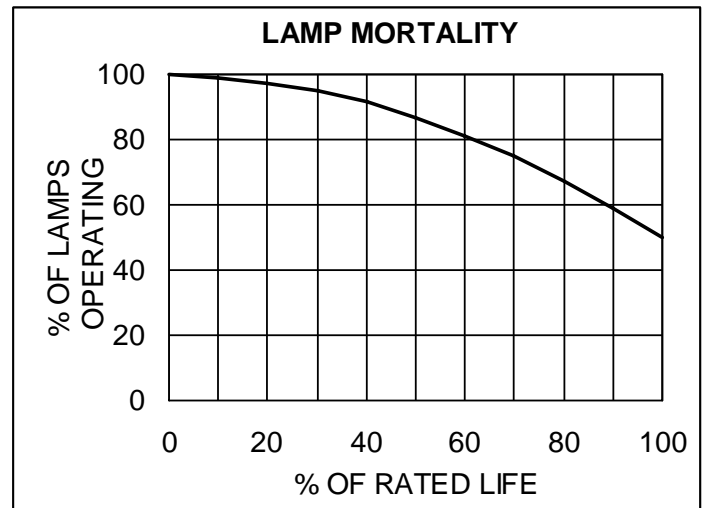
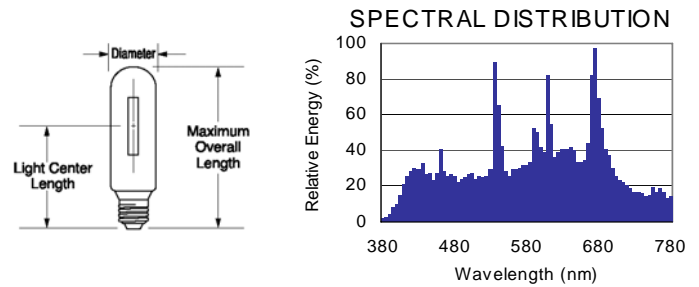
Nominal lamp wattage	70	Watts	
Nominal lamp voltage	90	Volts	
Nominal lamp current	0.95	Amps	
Current crest factor	1.8 max		
Min. open circuit voltage	198	Vrms	
	280	Vpk	
Max. Starting current	1.5	Amps	
Pulse requirements	Option 1	Option 2	
Pulse height	3.0-4.0	3.0-4.0	kV
Pulse width	1.9@2.7	1.0@2.7	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	5.04(128)	in (mm)
Light center length	3.43(87)	in (mm)
Bulb diameter (Max)	1.18(30)	in (mm)
Effective arc length	0.20(5)	in (mm)
Base to bulb eccentricity	3	Deg Max.
Maximum base temperature	446(230)	°F (°C)
Maximum bulb temperature	806(430)	°F (°C)
Bulb designation	T9.5	
Bulb material	Quartz glass	
Arc tube material	PCA	
Bulb finish	Frosted (UV cut coating)	
Base designation	MED	

FIXTURE REQUIREMENT

O Rated- Open or enclosed fixtures.



* Specified ballast only. Call EYE lighting for detail.

ISO 9001:2000 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.

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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