



TECHNICAL BULLETIN METAL HALIDE

EYE Color Arc® MTD70/SDW

ANSI Code: M139/E

Product Code: 56192

- Features:**
- High color rendering, CRI=96
 - Double-Ended lamp
 - UV-block coating on the outer bulb

PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	4500	Lumens
Mean lumens at 10 hours/start	3600	Lumens
Rated average life	6000	Hours
Warm up time (90% lumens)	4	Minutes
Correlated color temperature	3500	K
CIE chromaticity	0.402, 0.387	X, Y
Color rendering index	96	
Operating Position	HOR±45°	
Time to hot re-start	15 max	Minutes

ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	70	Watts
Nominal lamp voltage	90	Volts
Nominal lamp current	1.0	Amps
Current crest factor	1.8 max	
Min. Starting voltage	198	Vrms
Min. Starting voltage	280	Vpk
Max. Starting current	1.5	Amps
Lampholder rating	4.0	kV
Dimming capability	No	

Ignitor Requirements Option 1 Option 2

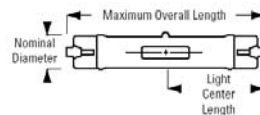
Min. Pulse Height	3.0	3.0	kV
Max. Pulse Height	4.0	4.0	kV
Min. Pulse Width	1.0@2.7	1.9@2.7	µsec@kV
Min. Pulse Repetition	2	1	/half cycle
Pulse Positions	60-90, 240-270	64-110, 244-290	degrees

PHYSICAL DESCRIPTION

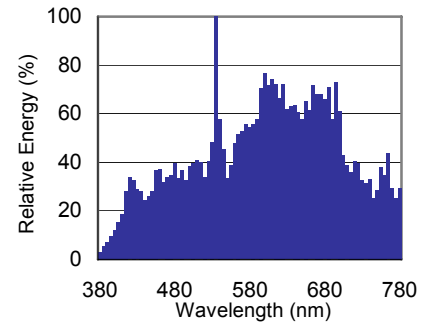
Maximum overall length	4.724(120)	in (mm)
Light center length	2.303(58.5)	in (mm)
Bulb diameter	0.866 (22)	in (mm)
Effective arc length	0.315 (8)	in (mm)
Base to bulb eccentricity	3	Deg Max.
Maximum base temperature	536(280)	°F (°C)
Maximum bulb temperature	932(500)	°F (°C)
Bulb designation	T6	
Bulb material	Quartz	
Arc tube material	Quartz	
Bulb finish	Clear (UV-block coating)	
Base designation	Rx7s	

FIXTURE REQUIREMENT

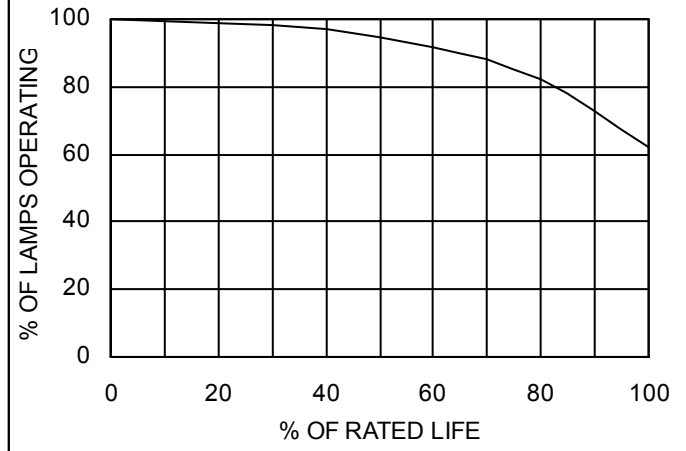
E Rated – Enclosed fixtures



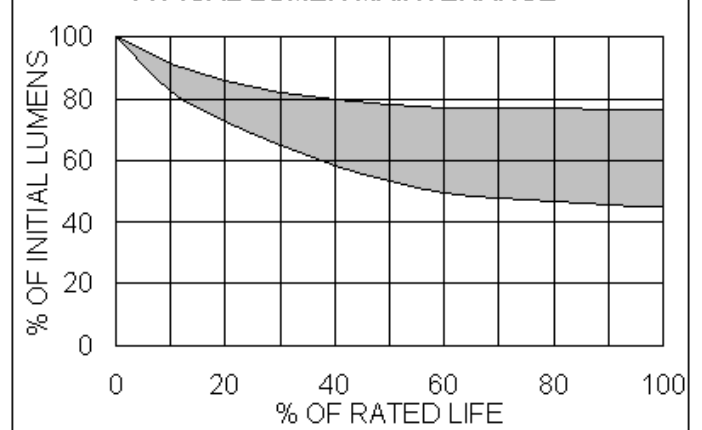
SPECTRAL DISTRIBUTION



LAMP MORTALITY



TYPICAL LUMEN MAINTENANCE



ISO 9001:2008 Certified ISO 14001:2004 Certified

OSHAS 18001:2007 Certified ISO 17025:2005 Accredited



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

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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
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Hg-LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws

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

