



TECHNICAL BULLETIN METAL HALIDE

EYE Color Arc® MT70F/SDW

ANSI Code: M139/O

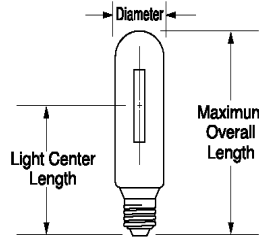
Product Code: 56003

Features:

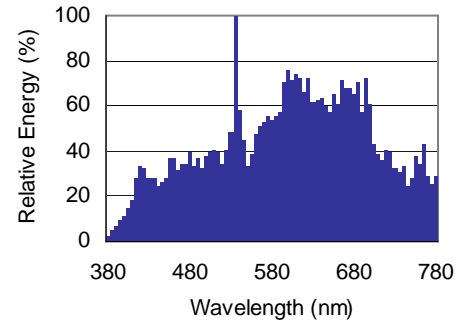
- High color rendering, CRI=96
- Open fixture rated
- Compact tubular bulb and medium base
- UV-block coating on the outer bulb
- Reliable long life

PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	4300	Lumens
Mean lumens at 10 hours/start	3400	Lumens
Rated average life	9000	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	Universal	
Time to hot re-start	15 max	Minutes



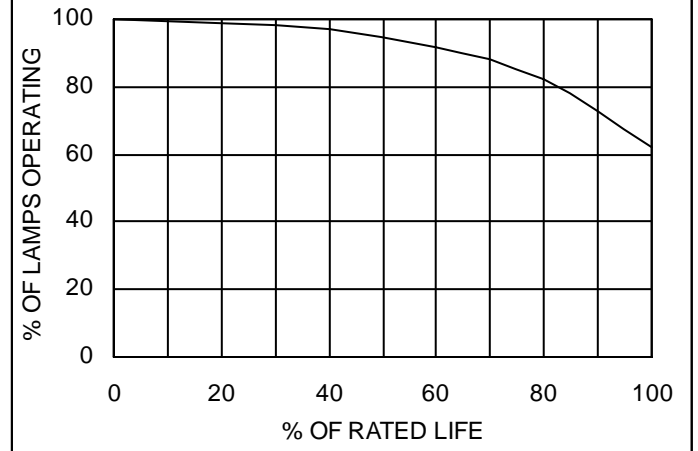
SPECTRAL DISTRIBUTION



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. pulse repetition at 1500V	3/half cycle	
Min. pulse width	1	µsec
or Min. pulse repetition at 1500V	1/half cycle	
Min. pulse width	5	µsec
Min. Peak starting voltage	1800	V
Max. Peak Starting voltage	4000	Vpk
Min. Starting voltage RMS	198	V
Min. Starting voltage PEAK	280	V
Max. Starting current	1.5	Amps
Socket rating	4.0	kV
Dimming capability	No	

LAMP MORTALITY



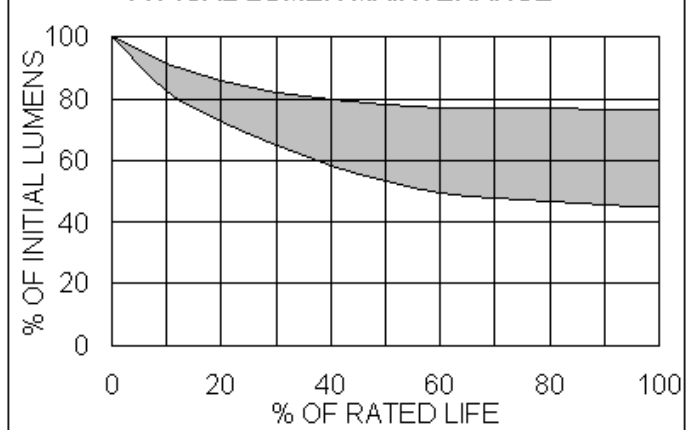
PHYSICAL DESCRIPTION

Maximum overall length	5.433(138)	in (mm)
Light center length	-	in (mm)
Bulb diameter	1.378(35)	in (mm)
Base to bulb eccentricity	3	Deg Max.
Maximum base temperature	374(190)	°F (°C)
Maximum bulb temperature	752(400)	°F (°C)
Bulb designation	T11	
Bulb material	Hard Glass	
Arc tube material	Quartz	
Bulb finish	Frosted (UV-Block Coating)	
Base designation	E26 Medium	

FIXTURE REQUIREMENT

O Rated – Open or enclosed fixtures.

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