



# TECHNICAL BULLETIN METAL HALIDE

## EYE Color Arc® MT70F/D

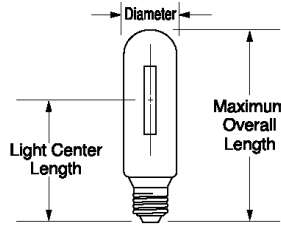
ANSI Code: M139/O

Product Code: 55954

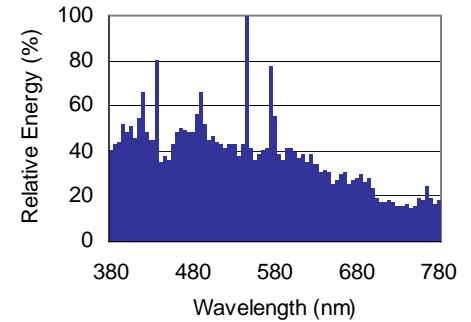
- Features:**
- High color rendering, CRI=92
  - Open fixture rated
  - Compact tubular bulb and medium base
  - UV-block coating on the outer bulb
  - Reliable long life

### PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	4800	Lumens
Mean lumens at 10 hours/start	3800	Lumens
Rated average life	9000	Hours
Warm up time (90% lumens)	4	Minutes
Correlated color temperature	6500	K
CIE chromaticity	0.312, 0.332	X, Y
Color rendering index	92	
Operating Position	Universal	
Time to hot re-start	15 max	Minutes



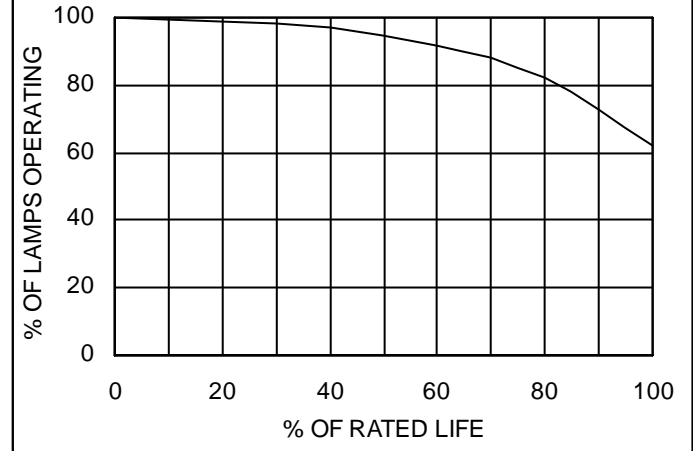
### SPECTRAL DISTRIBUTION



### 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



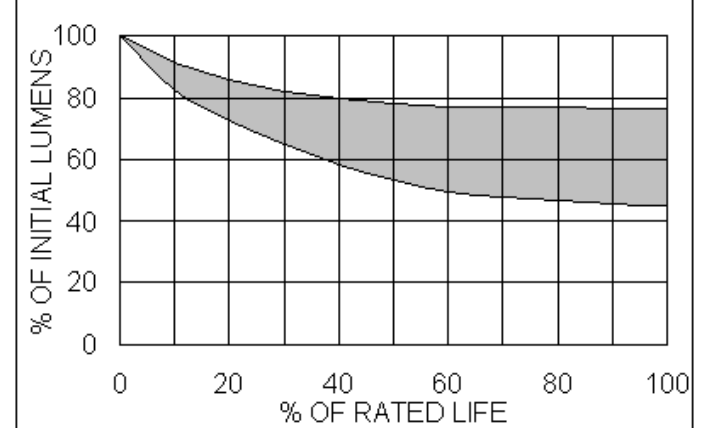
### PHYSICAL DESCRIPTION

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.**

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

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