



TECHNICAL BULLETIN METAL HALIDE

EYE Color Arc® M70P38F/D

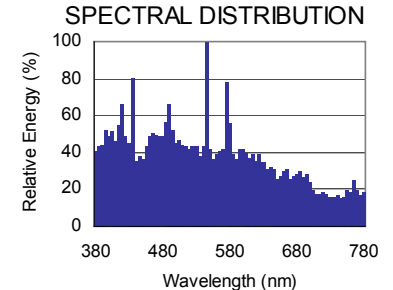
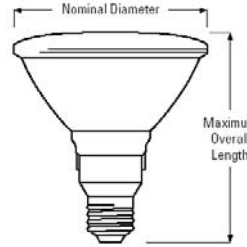
ANSI Code: M139/O

Product Code: 55466

- Features:**
- High color rendering, CRI=92
 - Open fixture rated
 - PAR38 bulb with medium screw base
 - Dichroic reflector transfers less heat to lighted objects

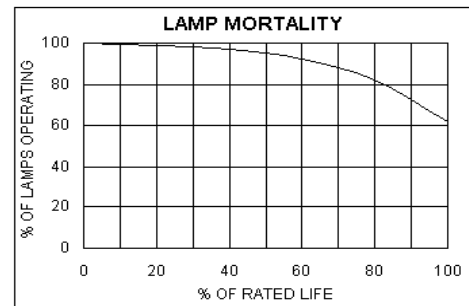
PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	2900	Lumens
Beam lumens	1500	Lumens
Beam angle @ 50% peak intensity	45	Degrees
Peak intensity	4500	Candela
Rated average life	6000	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

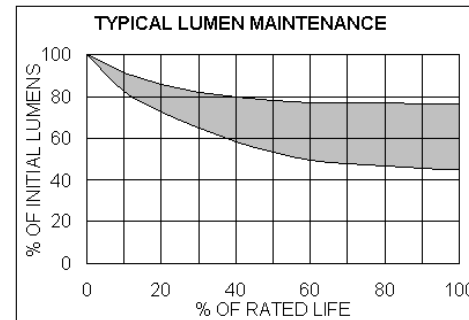


ELECTRICAL CHARACTERISTICS

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
Socket 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	5.315(135)	in (mm)
Bulb diameter	4.764(121)	in (mm)
Base to bulb eccentricity	3	Deg Max.
Maximum base temperature	374(190)	°F (°C)
Maximum bulb temp.	752(400)	°F (°C)
Bulb designation	PAR38	
Bulb material	Hard glass	
Arc tube material	Quartz	
Bulb finish (reflector)	Dichroic coating	
Base designation	E26 Skirted Medium	

PHOTOMETRIC DATA

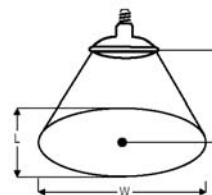
Initial Footcandles

Beam Angle at 50% Peak Intensity 45°

H (ft)	Beam Center	Foot Candle	Beam Diameter L (ft)	Beam Diameter W (ft)
6	125	4.97	4.97	4.97
8	70	6.63	6.63	6.63
10	45	8.28	8.28	8.28
12	31	9.94	9.94	9.94
14	23	11.60	11.60	11.60

Candlepower Distribution

Beam Angle	Candela
0°	4451
5°	4611
10°	4581
15°	3789
20°	2491
25°	1347
30°	727
35°	443
40°	321
45°	260
50°	202
55°	159
60°	121
65°	93
70°	65
75°	46
80°	27
85°	16
90°	9



FIXTURE REQUIREMENT

O Rated – Open or enclosed fixtures. For outdoor use, enclosed fixtures only unless fixtures are properly designed.

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.

Address: 9150 Hendricks Rd., Mentor, OH 44060
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. If power supply dips or is interrupted, lamps may extinguish and not restart. Turn off power supply for 10-15 minutes and allow lamp to fully cool. Lamp will restart when power is restored.

R	Conforms to: USA: 21CFR1040.30 Canada: ANSI 136.1-2000
----------	---

Hg-LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws

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

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.

Address: 9150 Hendricks Rd., Mentor, OH 44060

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