



# TECHNICAL BULLETIN METAL HALIDE

## EYE Multi Metal™ MPF320/BU/PS/BT28

ANSI Code: M154/O

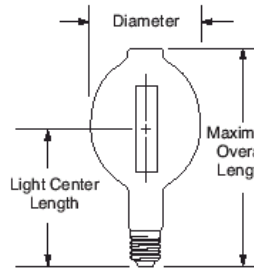
Product Code: 54355

**Features:**

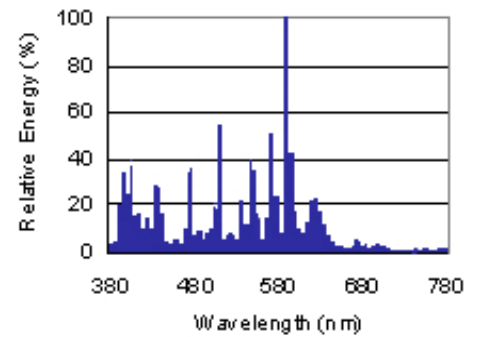
- High Output, Position Oriented Metal Halide
- High initial and maintained lumens
- Superior lamp to lamp color consistency
- Pulse Start Performance

### PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	27700	lm
Mean lumens at 10 hours/start	19000	lm
Rated average life at 120hrs/start	NA	h
Rated average life at 10hrs/start	20000	h
Warm up time, typical	2 - 4	min
Correlated color temperature	3600	K
CIE chromaticity	0.386, 0.39	X, Y
Color rendering index (Ra)	70	
Operating Position	Base Up	
Time to hot re-start, typical	5-7	min



### SPECTRAL DISTRIBUTION

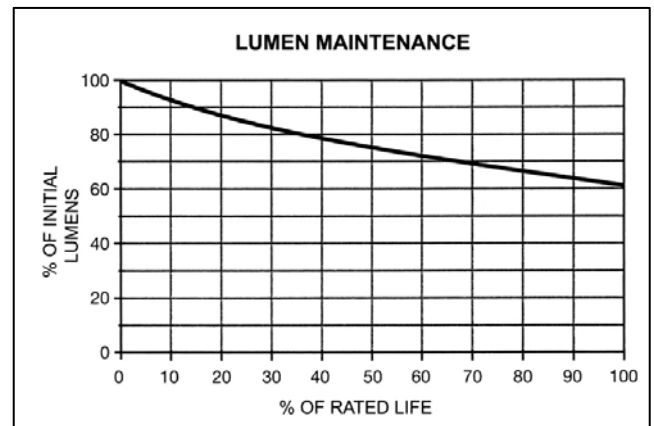
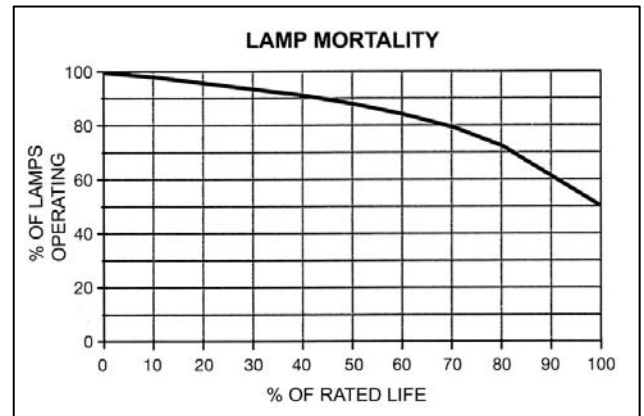


### ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	320	W
Nominal lamp voltage	135	V
Nominal lamp current	2.6	A <sub>rms</sub>
Maximum current crest factor	1.8	-
Maximum starting current	2.63	A <sub>rms</sub>
Minimum starting current	4.0	A <sub>rms</sub>
Ballast requirements	Use with ballast rated for ANSI M1543/E lamp	
Open circuit voltage -30°C (-22°F)	254	V <sub>rms</sub>
	345	V <sub>peak</sub>
Igniter requirements	Igniter	
Minimum pulse height	3.0	kV
Maximum pulse height	4.0	kV
Minimum pulse width	1.3 @ 2.7	us@kV
Minimum pulse repetition rate	1	Per half cycle
Pulse position(s)	64°-110°, 244°-290°	°(cycle)

### PHYSICAL DESCRIPTION

Maximum overall length	211 (8.31)	mm (in)
Light center length	127 (5.0)	mm (in)
Bulb diameter	89 (3.5)	mm (in)
Max. base - bulb eccentricity	3	Degrees
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb designation	BT28	
Bulb material	Borosilicate (Hard Glass)	
Arc tube material	Quartz	
Effective arc length	N/A	mm (in)
Bulb finish	Coated	
Base designation	EX39 Mogul	
Base finish	Nickel Plated	



### FIXTURE REQUIREMENT

O Rated - Enclosed fixture. Operating position base up..

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: 888-665-2677 Fax: 800-811-7395 E-Mail: [sales@eyelighting.com](mailto:sales@eyelighting.com)

Phone: (440) 350-7000 Fax: (440) 350-7001 Web: [www.eyelighting.com](http://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.**

<b>R</b>	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

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: 888-665-2677 Fax: 800-811-7395 E-Mail: [sales@eyelighting.com](mailto:sales@eyelighting.com)

Phone: (440) 350-7000 Fax: (440) 350-7001 Web: [www.eyelighting.com](http://www.eyelighting.com)