



# TECHNICAL BULLETIN METAL HALIDE

## EYE Multi Metal™ MF1000BX/U/BT37

ANSI Code: M47/E

Product Code: 50445

**Features:**

- High initial and maintained lumens
- Superior lamp to lamp color consistency
- Nickel-plated base
- Universal burning position

### PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	110000 (V) 105000 (H)	lm
Mean lumens at 10 hours/start	86000 (V) 82000 (H)	lm
Rated average life	12000 (V) 9000 (H)	h
Warm up time, maximum	4	min
Correlated color temperature	3800	K
CIE chromaticity	0.394, 0.398	x, y
Color rendering index (Ra)	70	
Operating Position	Universal	
Time to hot re-start, maximum	15	min

### ELECTRICAL CHARACTERISTICS

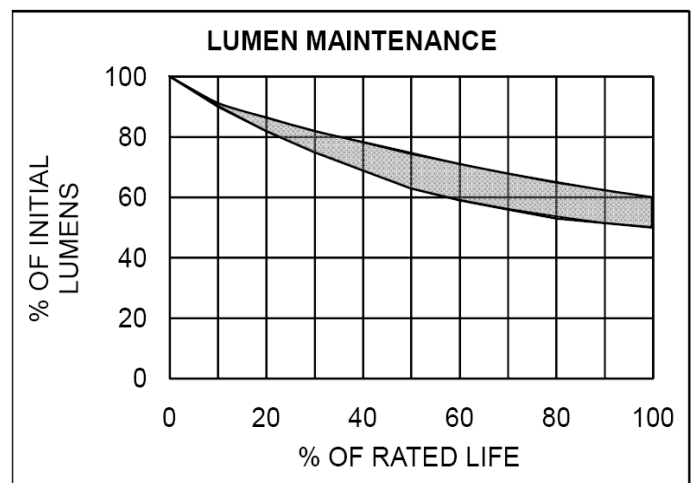
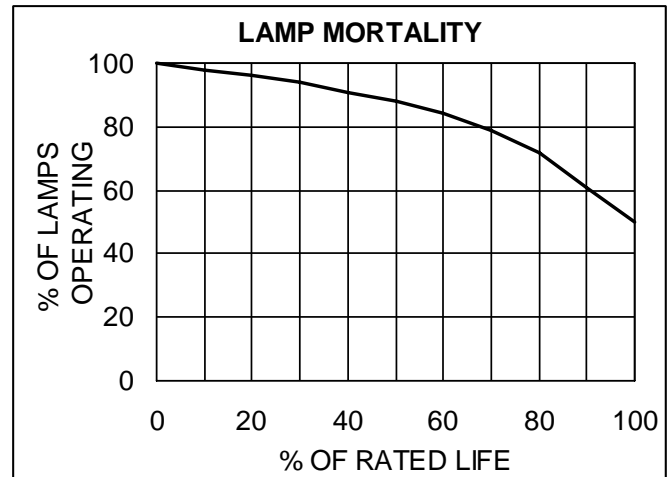
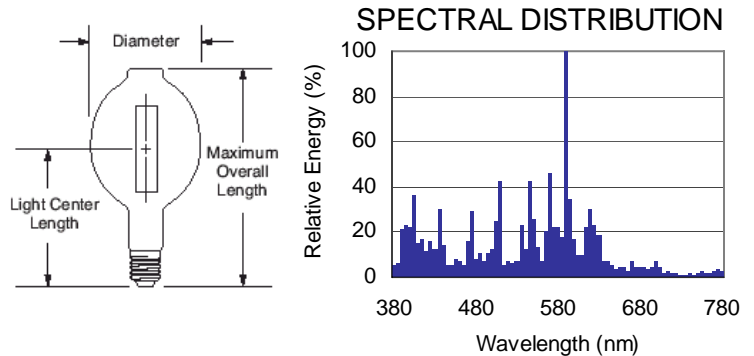
Nominal lamp wattage	1000	W
Nominal lamp voltage	263	V
Nominal lamp current	4.1	A <sub>rms</sub>
Maximum current crest factor	1.8	-
Maximum starting current	6.50	A <sub>rms</sub>
Minimum starting current	4.1	A <sub>rms</sub>
Ballast requirements	Use with ballast rated for ANSI M47 lamp	
Open circuit voltage (CWA) -30°C (-22°F)	530	V <sub>rms</sub>
	750	V <sub>peak</sub>
Pulse requirements	None	
Lampholder voltage rating	600	V

### PHYSICAL DESCRIPTION

Maximum overall length	291 (11.451)	mm (in)
Light center length	N/A	mm (in)
Bulb diameter	117 (4.625)	mm (in)
Max. base - bulb eccentricity	3	Degrees
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb designation	BT37	
Bulb material	Borosilicate (Hard Glass)	
Arc tube material	Quartz	
Effective arc length	N/A	mm (in)
Bulb finish	Phosphor Coated	
Base designation	E39 Mogul	

### FIXTURE REQUIREMENT

E Rated - Enclosed fixture required



ISO 9001:2008 Certified    ISO 14001:2004 Certified  
**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.

<b>R</b>	Conforms to: USA: 21CFR1040.30
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**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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