



# TECHNICAL BULLETIN

## METAL HALIDE

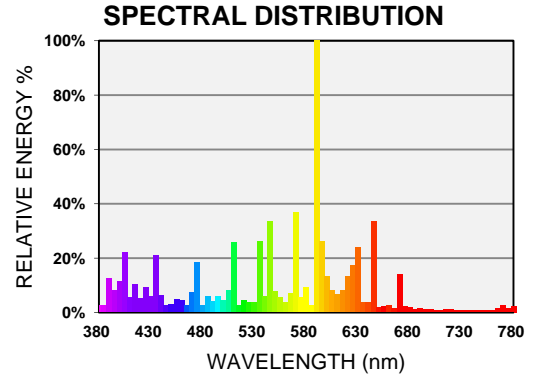
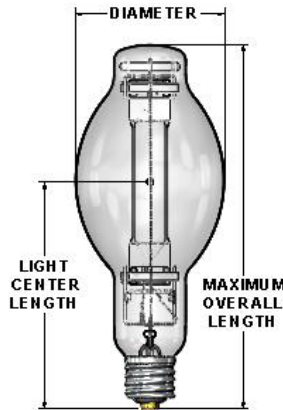
**EYE Multi-Metal™**  
M1000BX/U/BT37 BRUTUS®

ANSI CODE M47/E

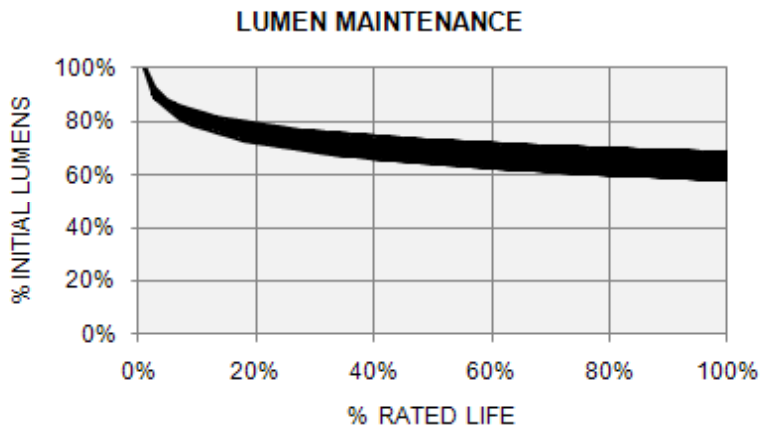
Product Code: 50074

- FEATURES:**
- High Output, Universal Metal Halide
  - High Initial and Maintained Lumens
  - Robust Construction for High Vibration Applications\*
  - Superior Lamp to Lamp Color Consistency

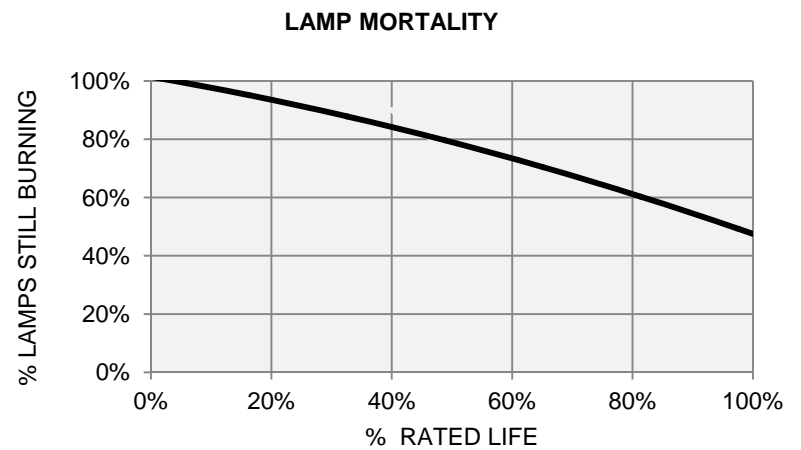
PERFORMANCE DATA		
Initial lumens	115000(V) 110000(H)	lm
Mean lumens at 11 hours/start	90000(V) 86300(H)	lm
Rated average life	12000(V) 9000(H)	hr
Correlated color temperature	4200	°K
CIE Chromaticity	0.376,0.396	X,Y
Color rendering index [Ra]	65	
Operating position	Universal	
Warm-up time (90% lumens)	<6	min
Time to hot re-start (max)	15	min



ELECTRICAL CHARACTERISTICS		
Nominal lamp wattage	1000	W
Nominal lamp voltage	263	V
Nominal lamp current	4.1	A <sub>RMS</sub>
Current crest factor	1.8	Max
Ballast requirements	Use ballast rated for ANSI M47 lamp	
Pulse requirements	N/A	



PHYSICAL DESCRIPTION		
Effective arc length	85(3.3)	mm (in)
Maximum overall length	292(11.5)	mm (in)
Light center length	178(7.0)	mm (in)
Bulb diameter	117 (4.6)	mm (in)
Base to bulb eccentricity	3°	Max
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Arc tube material	Quartz	
Bulb designation	BT37	
Bulb material	Borosilicate (hard glass)	
Bulb finish	Clear	
Base designation	E39	



FIXTURE REQUIREMENT
E rated - Enclosed fixture

\*The BRUTUS® lamp is designed to improve lamp life in severe applications where rough handling, vibration and wind-whipping are present. Rough service applications can vary dramatically, therefore, EYE Lighting encourages testing within each application prior to full implementation.

OSHAS 18001:2007 Certified ISO 17025:2005 Accredited ISO 9001:2008 Certified ISO 14001:2004 Certified



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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. 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>	<b>Conforms to:</b> USA: 21CFR1040.30    Canada: ANSI 136.1-2000
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<b>Hg</b>	<b>Lamp contains Mercury.</b> Manage in Accord with Disposal Laws
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