



TECHNICAL BULLETIN METAL HALIDE

**EYE Multi Metal
M400/BU/PS/BT37**

ANSI Code: M155/S

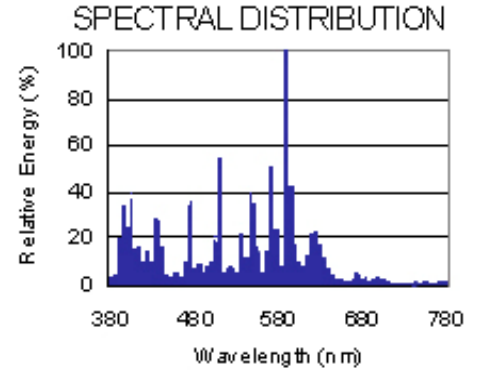
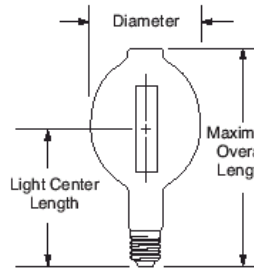
Product Code: 54351

Features:

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

PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	42000	lm
Mean lumens at 10 hours/start	31000	lm
Rated average life at 120hrs/start	30000	h
Rated average life at 10hrs/start	20000	h
Warm up time	2-4	min
Correlated color temperature	4000	K
CIE chromaticity	0.383, 0.388	X, Y
Color rendering index (Ra)	65	
Operating Position	Base Up +/-15°	
Time to hot re-start	5-7	min

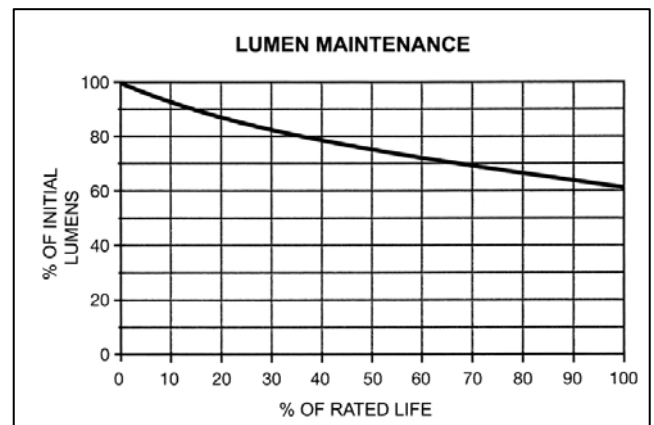
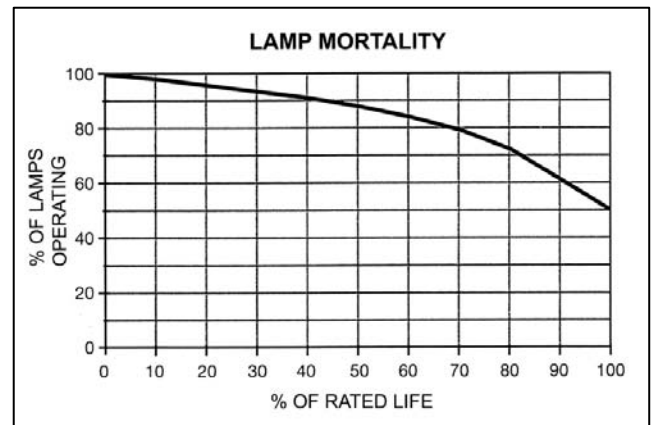


ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	400	W
Nominal lamp voltage	135	V _{rms}
Nominal lamp current	3.25	A _{rms}
Maximum current crest factor	1.8	-
Maximum starting current	5.0	A _{rms}
Minimum starting current	3.2	A _{rms}
Ballast requirements	Use with ballast rated for ANSI M155/S lamp	
Open circuit voltage -30°C (-22°F)	254	V _{rms}
	483	V _{peak}
Pulse requirements	Ignitor	
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	292 (11.5)	mm (in)
Light center length	178 (7.0)	mm (in)
Bulb diameter	117 (4.6)	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	38 (1.5)	mm (in)
Bulb finish	Clear	
Base designation	E39 Mogul	



FIXTURE REQUIREMENT

S Rated - Open fixture. Operating position restricted to base up +/- 15° of vertical.

ISO 9001:2008 Certified ISO 14001:2004 Certified
EYE LIGHTING INTERNATIONAL
OF NORTH AMERICA, INC.
 A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.

OSHAS 18001:2007 Certified ISO 17025:2005 Accredited

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 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.**

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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

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