



TECHNICAL BULLETIN METAL HALIDE

EYE Multi Metal Ignitek™ M400SX/BU/I

ANSI Code: M59/S

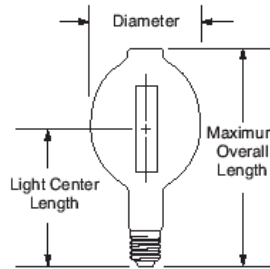
Product Code: 52529

Features:

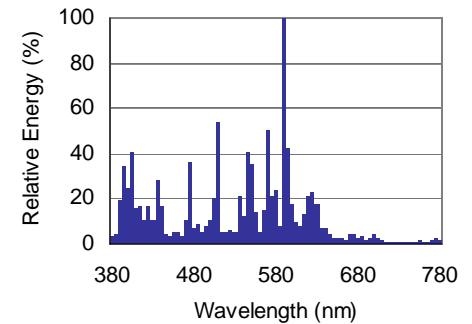
- High Output, Position Oriented Metal Halide
- High initial and maintained lumens
- Superior lamp to lamp color consistency
- Nickel-plated base
- FEC (Internal Ignitor) technology
- Pulse Start performance on standard ballasts

PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	44000	lm
Mean lumens at 10 hours/start	35200	lm
Rated average life at 120hrs/start	30000	h
Rated average life at 10hrs/start	20000	h
Warm up time, maximum	4	min
Correlated color temperature	4000	K
CIE chromaticity	0.385, 0.390	X, Y
Color rendering index (Ra)	65	
Operating Position	Base Up ± 15°	
Time to hot re-start, maximum	15	min



SPECTRAL DISTRIBUTION



ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	400	W
Nominal lamp voltage	135	V
Nominal lamp current	3.25	A _{rms}
Maximum current crest factor	1.8	-
Maximum starting current	5.0	A _{rms}
Minimum starting current	3.3	A _{rms}
Ballast requirements	Use with ballast rated for ANSI M59 lamp	
Open circuit voltage (CWA) -30°C (-22°F)	382	V _{rms}
	540	V _{peak}
Pulse requirements	None	

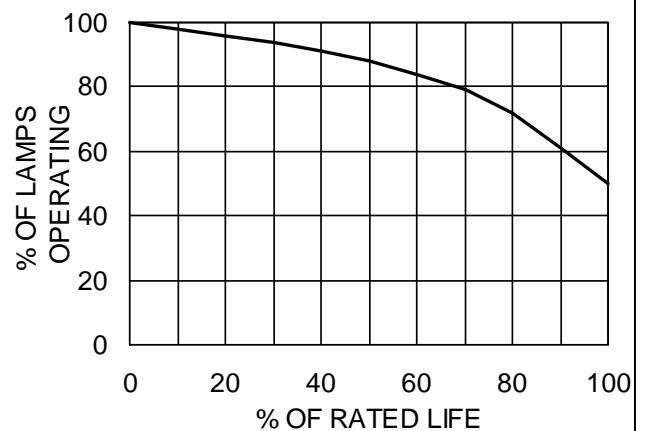
PHYSICAL DESCRIPTION

Maximum overall length	291 (11.451)	mm (in)
Light center length	178 (7.0)	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	39 (1.535)	mm (in)
Bulb finish	Clear	
Base designation	E39 Mogul	

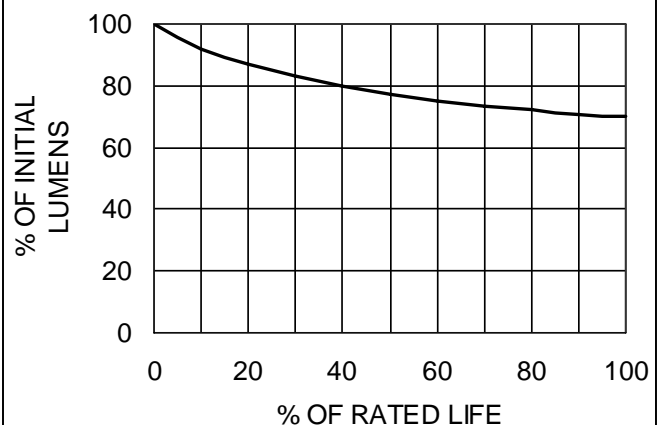
FIXTURE REQUIREMENT

S Rated - Open or enclosed fixtures. Operating position restricted to base up ±15° of vertical.

LAMP MORTALITY



LUMEN MAINTENANCE



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

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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
- Electrically insulate any metal to glass support in fixture
- Use in luminaries that do not exceed ANSI maximum lamp voltage rise limit

⚠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
- Wear safety glasses and gloves when installing lamp

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Conforms to:
USA: 21CFR1040.30

Hg-LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws

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

