



TECHNICAL BULLETIN

METAL HALIDE

EYE Pulse Start

M1000BX/U/PS/BT37

ANSI CODE: M141/E

Product Code: 53650

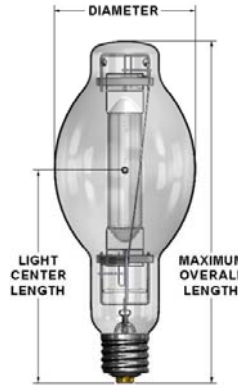
FEATURES:

- High Output, Universal Metal Halide
- High initial and maintained lumens
- Superior lamp to lamp color consistency

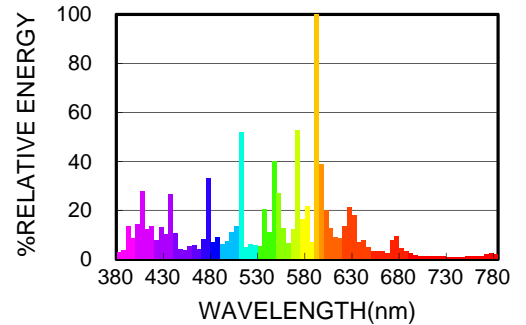
- Pulse Start Performance

PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	120000(V) 110000(H)	lm
Mean lumens at 11 hours/start	93600(V) 86300(H)	lm
Rated average life	12000(V) 9000(H)	hr
Warm-up time (90% lumens)	<10	min
Correlated color temperature	4000(V) 4500(H)	°K
CIE chromaticity	0.385, 0.400	X, Y
Color rendering index [Ra]	65	
Operating position	Universal	
Time to hot re-start (max)	10	min



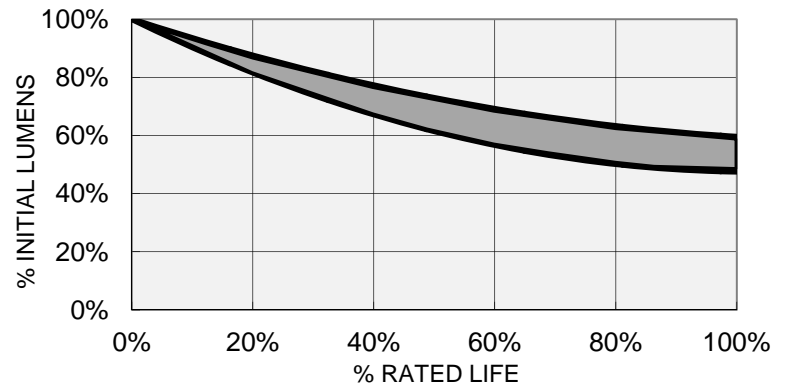
SPECTRAL DISTRIBUTION



ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	1000	W
Nominal lamp voltage	263	V _{rms}
Nominal lamp current	4.1	A _{rms}
Current crest factor	1.8	max
Ballast requirements	Use with ballast rated for ANSI M141 lamp	
Pulse requirements	ANSI M141	

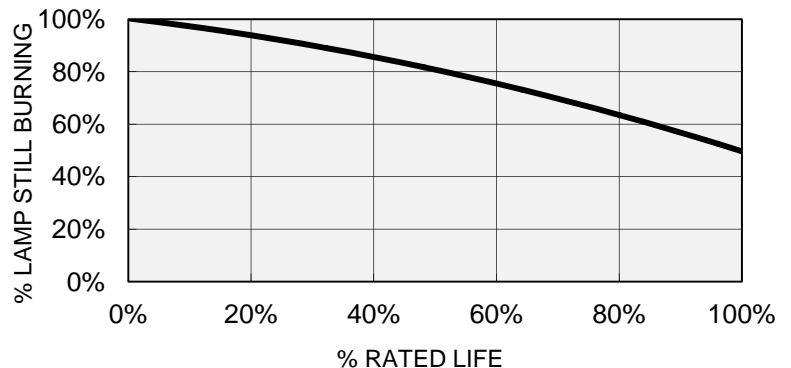
LUMEN MAINTENANCE



PHYSICAL DESCRIPTION

Maximum overall length	291(11.5)	mm (in)
Light center length	178(7.0)	mm (in)
Bulb diameter	118 (4.6)	mm (in)
Base to bulb eccentricity	3°	max
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	430(806)	°C (°F)
Bulb designation	BT37	
Bulb material	Borosilicate (hard glass)	
Arc tube material	Quartz	
Effective arc length	95(3.7)	mm (in)
Bulb finish	Clear	
Base designation	E39	

LAMP MORTALITY



FIXTURE REQUIREMENT

E Rated - Enclosed fixture

EYE Lighting International of North America, Inc.
a division of Iwasaki Electric of Japan

9150 Hendricks Road
Mentor, Ohio 44060
EQS-N-52-78-53650

Tel: (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.

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