



TECHNICAL BULLETIN

EYE HORTILUX METAL ACE™
M1000BLU/HTL

ANSI Code: Use with ballast rated for ANSI S52 lamp

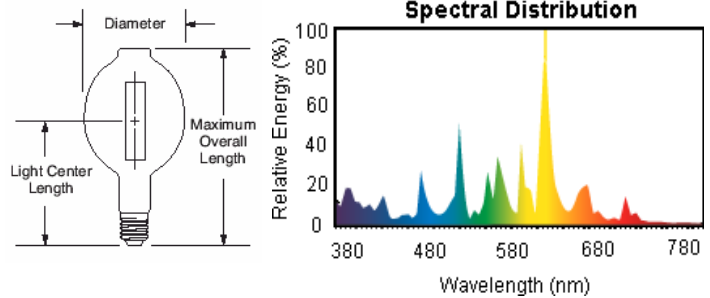
Product Code: 51615

Features:

- Works in all HPS lighting systems with an ignitor
- Nickel-plated base

PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	110200V/105500H	lm
Mean lumens at 10 hours/start	85500V/81700H	lm
Average life	12000V/9000H	h
Warm up time, maximum	4	min
Correlated color temperature	4200	K
CIE chromaticity	0.376, 0.396	X, Y
Color rendering index (Ra)	65	
Operating Position	Universal	
Time to hot re-start, maximum	15	min



ELECTRICAL CHARACTERISTICS

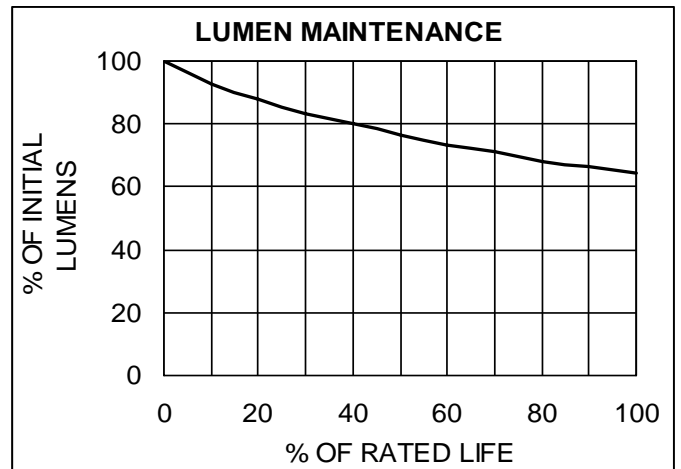
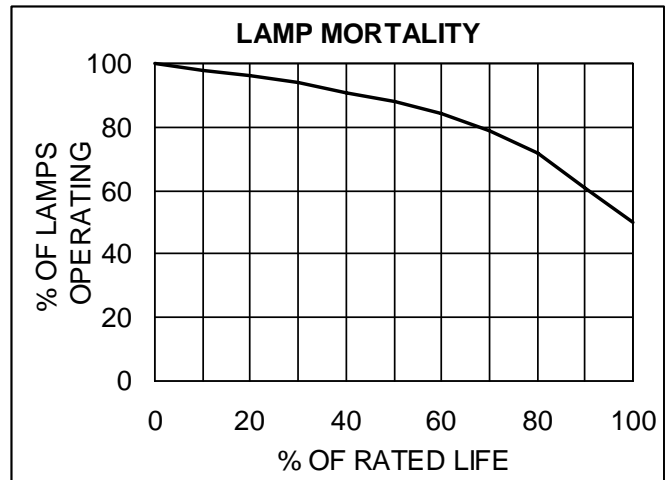
Nominal lamp wattage	1000	W
Nominal lamp voltage	250	V
Nominal lamp current	4.7	A _{rms}
Maximum current crest factor	1.8	-
Maximum starting current	6.5	A _{rms}
Minimum starting current	4.7	A _{rms}
Ballast requirements	Use with ballast rated for ANSI S52 lamp	
Open circuit voltage (CWA) -30°C (-22°F)	456	V _{rms}
	645	V _{peak}
Lampholder voltage rating	4	kV

IGNITOR REQUIREMENTS

Min. Pulse Height	3000	V
Max. Pulse Height	5000	V
Min. Pulse Width	4.0@2700	µsec@V
Min. Pulse repetition	1	half cycle
Pulse Positions	60-90 240-270	degrees

PHYSICAL DESCRIPTION

Maximum overall length	386 (15.38)	mm (in)
Light center length	241 (9.48)	mm (in)
Bulb diameter	178 (7.0)	mm (in)
Max. base - bulb eccentricity	3	deg
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb designation	BT56	
Bulb material	Borosilicate (Hard Glass)	
Arc tube material	Quartz	
Effective arc length	42 (1.65)	mm (in)
Bulb finish	Clear	
Base designation	E39 Mogul	



FIXTURE REQUIREMENT

E Rated-Enclosed, universal burning position



**EYE LIGHTING INTERNATIONAL
OF NORTH AMERICA, INC.**
A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.

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ISO 9001:2008 Certified



⚠ 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
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Hg-LAMP CONTAINS MERCURY

Manage in Accord with Disposal Laws
See: www.lamprecycle.org or 1-888-665-2677

