

Features:

# TECHNICAL BULLETIN METAL HALIDE

Works in all HPS lighting systems with an ignitor

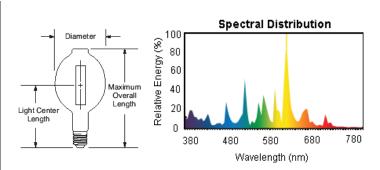
## EYE HORTILUX METAL ACE<sup>™</sup> M400LU/HTL

#### ANSI Code: Use with ballast rated for ANSI S51 lamp

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#### Product Code: 51830

<ul> <li>Nickel-plated base</li> </ul>				
PERFORMANCE DATA				
Initial lumens at rated watts after 100 hours operation	36600V/32700H	lm		
Mean lumens at 10 hours/start	27300V/24400H	lm		
Average life	20000V/15000H	h		
Warm up time, maximum	4	min		
Correlated color temperature	4500	К		
CIE chromaticity	0.364, 0.381	Χ, Υ		
Color rendering index (Ra)	65			
Operating Position	Base up- Horizontal			
Time to hot re-start, maximum	15	min		



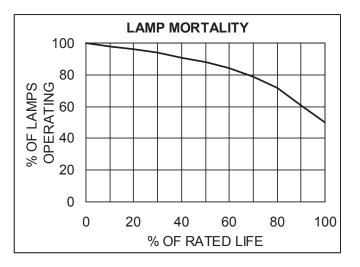
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ELECTRICAL CHARACTERISTICS				
Nominal lamp wattage	400	W		
Nominal lamp voltage	100	V		
Nominal lamp current	4.6	Arms		
Maximum current crest factor	1.8	-		
Maximum starting current	7.5	Arms		
Minimum starting current	4.6	A <sub>rms</sub>		
Ballast requirements	Use with ballast rated for ANSI S51 lamp			
Open circuit voltage (CWA) -30°C (-22°F)	175	V <sub>rms</sub>		
	248	V <sub>peak</sub>		
Lampholder voltage rating	4	kV		
IGNITOR REQUIREMENTS				
Min. Pulse Height	2500	V		
Max. Pulse Height	4000	V		
Min. Pulse Width	1.0@2250	µsec@V		
Min. Pulse repetition	1	half cycle		
Pulse Positions	60-90 240-270	degrees		

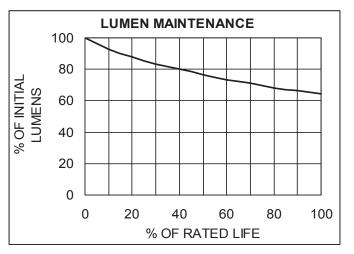
PHYSICAL DESCRIPTION				
Maximum overall length	291 (11.45)	mm (in)		
Light center length	178 (7.0)	mm (in)		
Bulb diameter	117 (4.63)	mm (in)		
Max. base - bulb eccentricity	3	deg		
Maximum base temperature	210 (410)	°C (°F)		
Maximum bulb temperature	400 (752)	°C (°F)		
Bulb designation	BT37			
Bulb material	Borosilicate (Hard Glass)			
Arc tube material	Quartz			
Effective arc length	42 (1.65)	mm (in)		
Bulb finish	Clear			
Base designation	E39 Mogul			



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

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#### FIXTURE REQUIREMENT

E Rated-Enclosed, universal burning position S Rated-Open fixture, base up or base down +/- 15°

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 Web: www.eyelighting.com www.eyehortilux.com

ISO 9001:2008 Certified



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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

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### **RISK OF BURN**

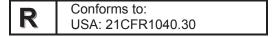
·Allow lamp to cool before handling.

#### 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.



Hg-LAMP CONTAINS MERCURY

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



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