

TECHNICAL BULLETIN METAL HALIDE LAMP

Metal Halide Retrofit from HPS EYE Multi Metal Ace™ M250X/U/LU

ANSI Code: Product Code: 51788

Works in all HPS lighting systems with an ignitor Features:

Improves color rendering index from 20 CRI to 60 CRI

Excellent lamp to lamp color consistency

Nickel-plated base

Applications-Parking lots, manufacturing, warehouse

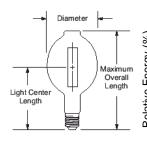
PERFORMANCE DATA			
Initial lumens at rated watts	19100V	lm	
after 100 hours operation	16700H	"""	
Mean lumens at 10	14300V	lm	
hours/start	12400H		
Average life	10000V	h	
	7500H		
Warm up time, maximum	4	min	
Correlated color temperature	4500	K	
CIE chromaticity	0.364, 0.381	X, Y	
Color rendering index (Ra)	65		
Operating Position	Universal		
Time to hot re-start,	15	min	
maximum			

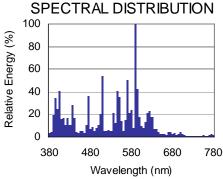
ELECTRICAL CH	ARACTERISTI	CS		
Nominal lamp wattage	250	W		
Nominal lamp voltage	100	V		
Nominal lamp current	3.0	A _{rms}		
Maximum current crest factor	1.8	-		
Maximum starting current	4.5	A _{rms}		
Minimum starting current	3.0	A _{rms}		
Ballast requirements	Use with ballast rated for ANSI S50 lamp			
Open circuit voltage (CWA)	165	V_{rms}		
-30°C (-22°F)	233	V_{peak}		
Lamp holder voltage rating	4	kV		
IGNITOR REQUIREMENTS				
Min. Pulse Height	2500	V		
Max. Pulse Height	4000	>		
Min. Pulse Width	1.0@2250	µsec@V		
Min. Pulse repetition	1	half cycle		
Pulse Positions	60-90 240-270	degrees		

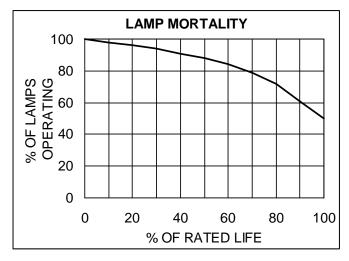
PHYSICAL DESCRIPTION			
Maximum overall length	211 (8.31)	mm (in)	
Light center length	146 (5.75)	mm (in)	
Bulb diameter	89 (3.50)	mm (in)	
Max. base - bulb eccentricity	3	deg	
Maximum base temperature	210 (410)	°C (°F)	
Maximum bulb temperature	400 (752)	°C (°F)	
Bulb designation	BT28		
Bulb material	Borosilicate (Hard Glass)		
Arc tube material	Quartz		
Effective arc length	42 (1.65)	mm (in)	
Bulb finish	Clear		
Base designation	E39 Mogul		

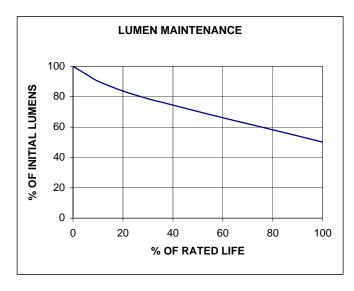


E Rated-Enclosed, universal burning position









ISO 9001:2000 Certified



Address: 9150 Hendricks Rd., Mentor, OH 44060

Phone: 888-665-2677 Fax: 800-811-7395 E-Mail:sales@eyelighting.com Phone: (440) 350-7000 Fax: (440) 350-7001 Web: www.eyelighting.com

FOS-N-52-78-51788 9/29/2006



TECHNICAL BULLETIN METAL HALIDE

Metal Halide Retrofit from HPS EYE Multi Metal AceTM M400X/U/LU

A 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

ACAUTION

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

Hq-LAMP CONTAINS MERCURY

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

ISO 9001:2000 Certified



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

9/29/2006