

## **TECHNICAL BULLETIN** METAL HALIDE LAMP

Metal Halide Retrofit from HPS EYE Multi Metal Ace™ M400X/U/LU/BT28

**Product Code: 51886** ANSI Code:

Features:

- Works in all HPS lighting systems with an ignitor
- Improves color rendering index from 20 CRI to 60 CRI
- Excellent lamp to lamp color consistency

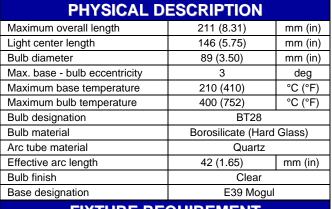
Nickel-plated base
INICKEI-DIALEU DASE

Applications-Parking lots, manufacturing, warehouse

PERFORMANCE DATA				
Initial lumens at rated watts	36600V	lm		
after 100 hours operation	32700H	lm		
Mean lumens at 10	27300V	lm		
hours/start	24400H	1111		
A	20000V	h		
Average life	15000H	n		
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		

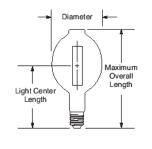
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FLECTRICAL CHARACTERISTICS				

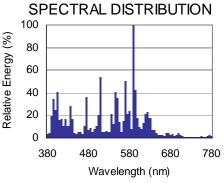
ELECTRICAL CHARACTERISTICS					
Nominal lamp wattage	400	W			
Nominal lamp voltage	100	V			
Nominal lamp current	4.6	A <sub>rms</sub>			
Maximum current crest factor	1.8	-			
Maximum starting current	7.5	A <sub>rms</sub>			
Minimum starting current	4.6	A <sub>rms</sub>			
Ballast requirements	Use with ballast rated for ANSI S51 lamp				
Open circuit voltage (CWA)	198	$V_{rms}$			
-30°C (-22°F)	280	$V_{peak}$			
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			

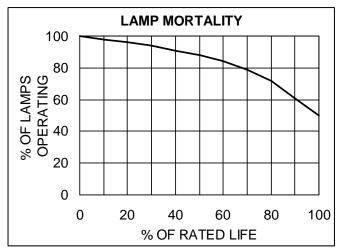


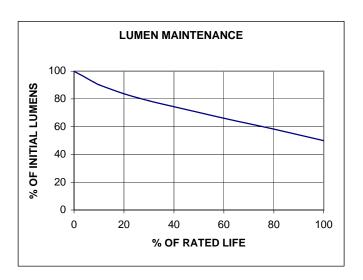


E Rated-Enclosed, universal burning position









ISO 9001:2000 Certified



EQS-N-52-78-51886

**EYE LIGHTING INTERNATIONAL** OF NORTH AMERICA, INC.

A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.

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9/29/2006

# TECHNICAL BULLETIN METAL HALIDE

Metal Halide Retrofit from HPS EYE Multi Metal Ace<sup>TM</sup> 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



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