

# TECHNICAL BULLETIN METAL HALIDE

# EYE Multi Metal <sup>™</sup> MF400X/U

ANSI Code: M59/S Product Code: 50592

High initial and maintained lumens
 Constitution to leave the leave leave the

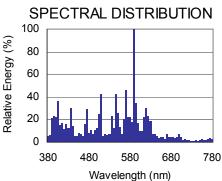
Features: • Superior lamp to lamp color consistency

Nickel-plated base

Nionei piatea base				
•	Universal burning position			

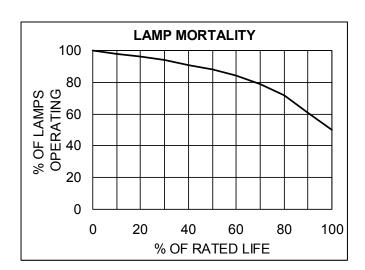
PERFORMANCE DATA				
Initial lumens at rated watts	36000 (V)	lm		
after 100 hours operation	32000 (H)	"""		
Mean lumens at 10 hours/start	28000 (V)	lm		
Wear furners at 10 flours/start	24800 (H)			
Reted everage life	20000 (V)	h		
Rated average life	15000 (H)			
Warm up time, maximum	4	min		
Correlated color temperature	3800	K		
CIE chromaticity	0.394, 0.398	X, Y		
Color rendering index (Ra)	70			
Operating Position	Universal			
Time to hot re-start, maximum	15	min		

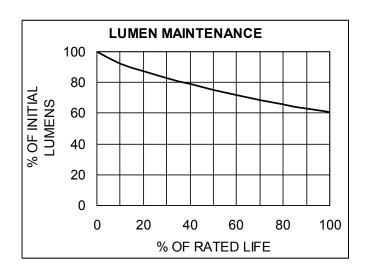
-	Diameter =	
Light Center Length	Maximum Overall Length	



ELECTRICAL CHARACTERISTICS					
Nominal lamp wattage	400	W			
Nominal lamp voltage	135	V			
Nominal lamp current	3.25	A <sub>rms</sub>			
Maximum current crest factor	1.8	-			
Maximum starting current	5.0	A <sub>rms</sub>			
Minimum starting current	3.2	A <sub>rms</sub>			
Ballast requirements	Use with ballast rated for ANSI M59 lamp				
Open circuit voltage (CWA)	382	$V_{rms}$			
-30°C (-22°F)	540	$V_{peak}$			
Pulse requirements	None				
Lampholder voltage rating	600	V			

PHYSICAL DESCRIPTION						
Maximum overall length	291 (11.451)	mm (in)				
Light center length	N/A	mm (in)				
Bulb diameter	117 (4.625)	mm (in)				
Max. base - bulb eccentricity	3	Degrees				
Maximum base temperature	210 (410)	°C (°F)				
Maximum bulb temperature	400 (752)	°C (°F)				
Bulb designation	BT37					
Bulb material	Borosilicate (Haro	d Glass)				
Arc tube material	Quartz					
Effective arc length	N/A	mm (in)				
Bulb finish	Phosphor Coated					
Base designation	E39 Mogul					





## **FIXTURE REQUIREMENT**

S Rated - Open or enclosed fixtures. Operating position restricted to base up ±15° of vertical.

TB MF400XU 8/13/2004

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# **AWARNING**

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

Conforms to: USA: 21CFR1040.30

#### **Hg-LAMP CONTAINS MERCURY**

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



Address: 9150 Hendricks Rd., Mentor, OH 44060

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