



# TECHNICAL INFORMATION BULLETIN

## Metal Halide

Order Code: **60283**

Description: **MT400D/HOR EYE**

**ANSI Code: Use with ballast rated for ANSI M59 lamp**

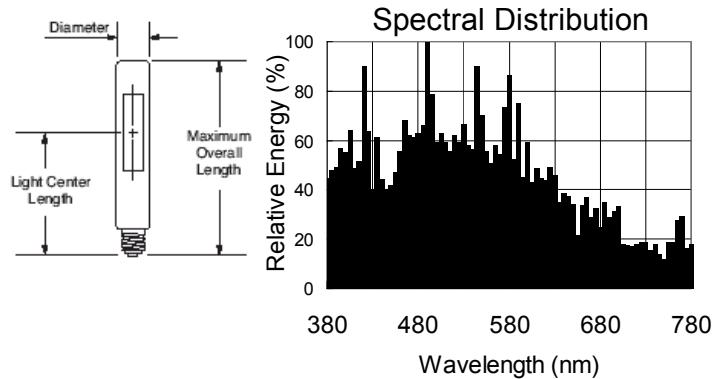
### Features:

High Color Rendering; CRI 90  
High Color Temperature; 6500K  
Operates on Standard Metal Halide CWA ballast

Horizontal Operating Position  
Spectral Distribution Similar to Natural Sunlight  
Tubular Compact Design

### PERFORMANCE DATA

Initial lumens at rated watts after 100 hours operation	29000	lm
Mean lumens at 10 hours/start	22000	lm
Rated average life at 10hrs/start	12000	h
Warm up time, maximum	8	min
Correlated color temperature	6500	K
CIE chromaticity	0.310, 0.349	X, Y
Color rendering index (Ra)	90	
Operating Position	HOR $\pm$ 15°	
Time to hot re-start, maximum	15 max.	min



### ELECTRICAL CHARACTERISTICS

Nominal lamp wattage	400	W
Nominal lamp voltage	135	V
Nominal lamp current	3.3	A <sub>rms</sub>
Maximum current crest factor	1.8	-
Maximum starting current	5.0	A <sub>rms</sub>
Minimum starting current	3.3	A <sub>rms</sub>
Ballast requirements	Use with ballast rated for ANSI M59 lamp	
Open circuit voltage (CWA)	280	V <sub>rms</sub>
-30°C (-22°F)	504	V <sub>peak</sub>
Pulse requirements	None	

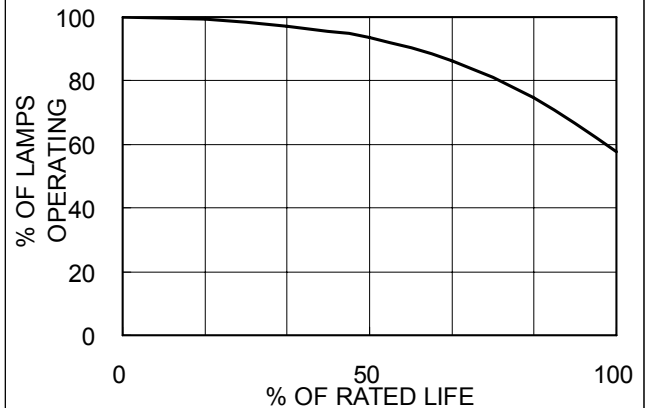
### PHYSICAL DESCRIPTION

Maximum overall length	250 (9.843)	mm (in)
Light center length	147 (5.787)	mm (in)
Bulb diameter	55 (2.165)	mm (in)
Max. base - bulb eccentricity	3 max.	Degrees
Maximum base temperature	210 (410)	°C (°F)
Maximum bulb temperature	400 (752)	°C (°F)
Bulb designation	T17	
Bulb material	Borosilicate (Hard Glass)	
Arc tube material	Quartz	
Effective arc length	38 (1.496)	mm (in)
Bulb finish	Clear	
Base designation	E39 Mogul	

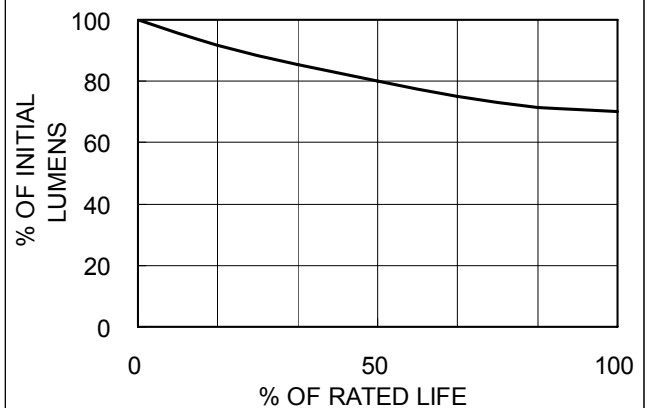
### FIXTURE REQUIREMENT

E Rated - Enclosed fixture required

### LAMP MORTALITY



### LUMEN MAINTENANCE





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### **⚠ 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**

Nominal lamp characteristics may vary for different ballast models.

**R**

Conforms to:  
USA: 21CFR1040.30    Canada: ANSI 136.1-2000

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

Manage in Accord with Disposal Laws

See: [www.lamprecycle.org](http://www.lamprecycle.org) or 1-888-665-2677