

TECHNICAL INFORMATION BULLETIN Metal Halide

Order Code: 58242 Description: MF320/BU/HOR/PS/BT28 EYE

ANSI Code: M154/E

High Output, Position Oriented Metal Halide

Features: • High initial and maintained lumens

•	Superior	lamp	to lamp	color	consistency
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Pulse Start Performance

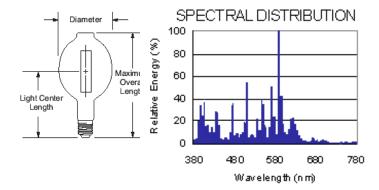
PERFORMANCE DATA				
Initial lumens at rated watts after 100 hours operation	30000V/28000H	lm		
Mean lumens at 10 hours/start	19700V/18400H	lm		
Rated average life at 120hrs/start	NA	h		
Rated average life at10hrs/start	20000V/15000H	h		
Warm up time, typical	2– 4	min		
Correlated color temperature	3900	K		
CIE chromaticity	0.387, 0.387	X, Y		
Color rendering index (Ra)	70			
Operating Position	BU-HOR			
Time to hot re-start, typical	5-7	min		

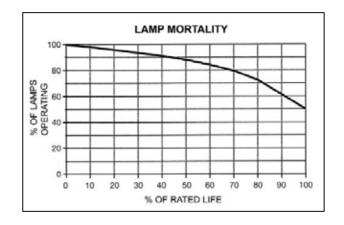
ELECTRICAL CHARACTERISTICS					
Nominal lamp wattage	320	W			
Nominal lamp voltage	135	V			
Nominal lamp current	2.63	A _{rms}			
Maximum current crest factor	1.8	-			
Maximum starting current	2.63	A _{rms}			
Minimum starting current	4.0	A _{rms}			
Ballast requirements	Use with ballast rated for ANSI M1543/E lamp				
Open circuit voltage	254	V_{rms}			
-30°C (-22°F)	345	V_{peak}			
Igniter requirements	Igniter				
Minimum pulse height	3.0	kV			
Maximum pulse height	4.0	kV			
Minimum pulse width	1.3 @ 2.7	us@kV			
Minimum pulse repetition rate	1	Per half cycle			
Pulse position(s)	64°-110° 244°-290°	°(cycle)			

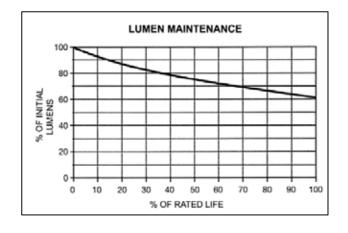
PHYSICAL DESCRIPTION					
Maximum overall length	211 (8.31)	mm (in)			
Light center length	127 (5.0)	mm (in)			
Bulb diameter	89 (3.5)	mm (in)			
Max. base - bulb eccentricity	3	Degrees			
Maximum base temperature	250 (482)	°C (°F)			
Maximum bulb temperature	400 (752)	°C (°F)			
Bulb designation	BT28				
Bulb material	Borosilicate (Hard Glass)				
Arc tube material	Quartz				
Effective arc length	N/A	mm (in)			
Bulb finish Coated					
Base designation	E39 Mogul				
Base finish	Nickel Plated				



E Rated - Enclosed fixture. Operating position base up through horizontal.









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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

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RISK OF BURN

•Allow lamp to cool before handling.

LAMP MAY SHATTER AND CAUSE INJURY

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•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.

Conforms to: USA: 21CFR1040.30

Hg-LAMP CONTAINS MERCURY

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