



MS 400W/HOR/ED28

GENERAL Characteristics

Lamp Type	Standard MH Single Ended
ANSI Code	M59/E
Bulb Shape	ED28
Base Type	Mogul POMB (EP39)
Bulb Finish	Clear
Rated Life	20000 hours
Operating Position	Horizontal $\pm 45^\circ$

ELECTRICAL

Lamp Watts	400
Lamp Oper. Voltage (Nom.)	135
Dimming	

SUSTAINABILITY

Mercury Amount (mg)	53.8
Picograms of Hg per Mean Lumen Hour	103

PHOTOMETRIC

Initial Lumens	40000
Lumens Per Watt	100
Lamp Lumen Depreciation (LLD)	0.65 (65%) @ 8000
Correlated Color Temperature	4000K
Chromaticity Coordinates (CIE-x,y)	.385 .390
Color Rendering Index (CRI) R_a	65

NOTES

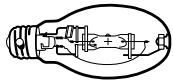
- Lamp performance ratings published in this data sheet are based upon operation with magnetic ballasts.
- Operation of position-rated lamps outside of their tolerances will result in poor performance.
- Permitted rotation about axis $\pm 15^\circ$.
- To calculate nighttime Scotopic lumens, multiply the lumen rating by the S/P ratio (1.7).



PHYSICAL

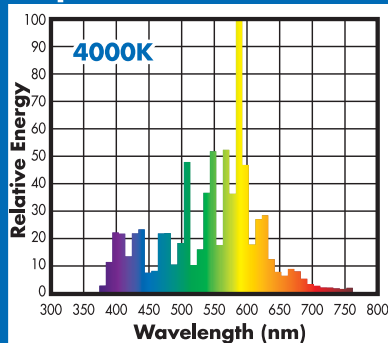
Bulb Diameter	3.5" (90mm)
Max. Overall Length (MOL)	8.3" (211mm)
Light Center Length (LCL)	5.0" (127mm)
Effective Arc Length	30.9mm
Max. Base Temperature (°C)	230
Max. Bulb Temperature (°C)	450
Socket Pulse Rating (KV)	-
Luminaire Type	Enclosed Rated

ED28

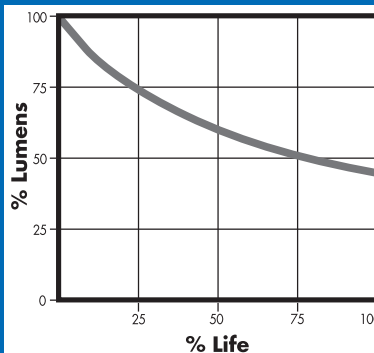


Dia. = 3.5" (90mm)
 MOL = 8.3" (211mm)
 LCL = 5.0" (127mm)
 Base = Mogul POMB (EP39)

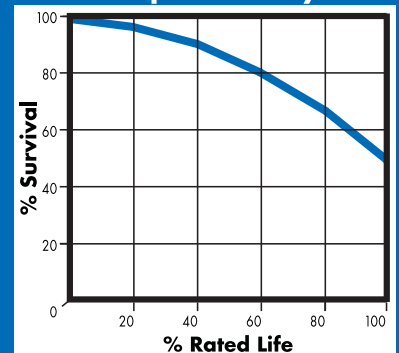
Spectral Distribution



Lumen Maintenance



Lamp Mortality



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THIS LAMP CONFORMS TO FEDERAL STANDARD 21 CFR 1040.30
 Complies with (CE), Low Voltage (CE), WEEE and RoHS Directives

Warning: This lamp can cause skin burn and eye inflammation from shortwave 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 outer envelope is broken or punctured are commercially available.