

# 450 Watt Pulse Start Lamp

# 59216 DATA SHEET



**UNI-FORM**  
PULSE START METAL HALIDE LIGHTING SYSTEMS

## MP 450W/C/BU/UVS/PS/737

### GENERAL Characteristics

Lamp Type	MH Pulse Start Single Ended
ANSI Code	M144/O
Bulb Shape	ED37
Base Type	Mogul (EX39)
Bulb Finish	Coated
Rated Life	30000 hours
Operating Position	Base Up $\pm 15^\circ$
Dimming	50% Rated Power

### ELECTRICAL

Lamp Watts	450
Lamp Oper. Voltage (Nom.)	135

### SUSTAINABILITY

Recycling Program	Smartpac® 800-451-2606
Picograms Hg per Mean Lumen Hour	52
MR-Credit 4 Reduced Mercury in Lamps	1 LEED point
EISA 2007 Compliant	Yes

### PHOTOMETRIC

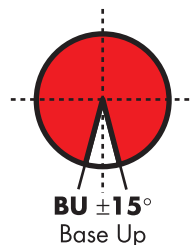
Initial Lumens	45000
Scotopic Lumens (S/P 1.7)	76000
Lumens Per Watt	100
Lamp Lumen Depreciation (LLD)	.86 (86%) @ 8000 hours
Correlated Color Temperature	3700K
Chromaticity Coordinates (CIE-x,y)	.395 .390
Color Rendering Index (CRI)	70

### NOTES

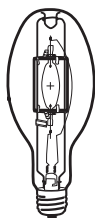
Lamp performance ratings published in this data sheet are based on operation with approved electronic ballasts. Performance of position-rated lamps outside of their tolerances will result in poor performance. UV Shield eliminates nearly all UV emissions, reducing color fading and lens yellowing. Minimum Starting Temperature:  $-40^\circ\text{C}/^\circ\text{F}$ . To calculate nighttime Scotopic lumens, multiply the lumen rating by the S/P ratio. \*\*LEED V3, MR CREDIT 4: Sustainable Purchasing - Reduced Mercury in Lamps is awarded 1 point for projects which at least 90% of all mercury-containing lamps purchased during the performance period comply and meet the target for mercury content of 90 picograms per lumen-hour or less.

### PHYSICAL

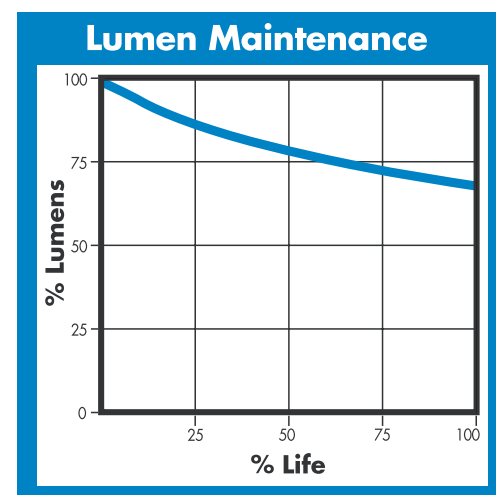
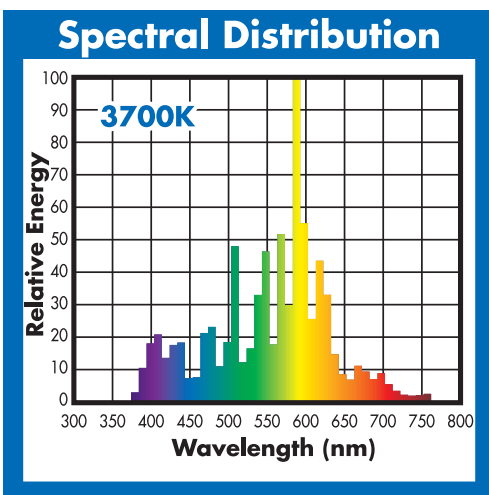
Bulb Diameter	4.6" (120mm)
Max. Overall Length (MOL)	11.5" (292mm)
Light Center Length (LCL)	7.0" (178mm)
Effective Arc Length	N/A
Max. Base Temperature ( $^\circ\text{C}$ )	230
Max. Bulb Temperature ( $^\circ\text{C}$ )	450
Socket Pulse Rating (KV)	4
Luminaire Type	Open / Enclosed Rated



**ED37**



Dia. = 4.6" (120mm)  
MOL = 11.5" (292mm)  
LCL = 7.0" (178mm)  
Base = Mogul (EX39)



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THIS LAMP CONFORMS TO FEDERAL STANDARD 21 CFR 1040.30

**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.

This Product is Recyclable Through  Smartpac  
RECYCLING PROGRAM