

# 70 Watt Pulse Start Lamp

# 86501 DATA SHEET

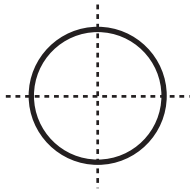


**UNI-FORM**  
PULSE START METAL HALIDE LIGHTING SYSTEMS

**SUPER PULSE START**

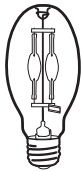
**Long Life (SPL)**

*Extended Life Lamps*



**Universal**  
Any Position

**ED28**



Dia. = 3.5" (90mm)  
MOL = 8.3" (211mm)  
LCL = 5.0" (127mm)  
Base = Mogul (E39)

## MHL 70W/U/ED28/PS/740

### GENERAL Characteristics

Lamp Type	MH Pulse Start Single Ended
ANSI Code	M98/E
Bulb Shape	ED28
Base Type	Mogul (E39)
Bulb Finish	Clear
Rated Life	40000 hours
Operating Position	Universal

### ELECTRICAL

Lamp Watts	70
Lamp Oper. Voltage (Nom.)	85

### SUSTAINABILITY

Mercury Amount (mg)	14.0
Picograms of Hg per Mean Lumen Hour	78

### PHOTOMETRIC

Initial Lumens	5600
Lumens Per Watt	80
Lamp Lumen Depreciation (LLD)	0.80 (80%) @ 16000 hours
Correlated Color Temperature	4000K
Chromaticity Coordinates (CIE-x,y)	.385 .390
Color Rendering Index (CRI) $R_a$	68

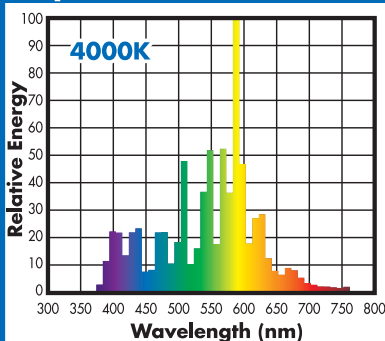
### PHYSICAL

Bulb Diameter	3.5" (90mm)
Max. Overall Length (MOL)	8.3" (211mm)
Light Center Length (LCL)	5.0" (127mm)
Effective Arc Length	10.2mm
Max. Base Temperature (°C)	210
Max. Bulb Temperature (°C)	400
Socket Pulse Rating (KV)	4
Luminaire Type	Enclosed Rated

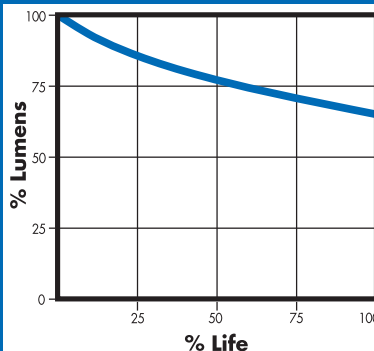
### NOTES

- Lamp performance ratings published in this data sheet are based upon operation with approved electronic ballasts.
- Performance ratings of Universal lamps are based upon Vertical ( $\pm 15^\circ$ ) operation.
- Minimum Starting Temperature:  $-40^\circ\text{C}/^\circ\text{F}$ .
- To calculate nighttime Scotopic lumens, multiply the lumen rating by the S/P ratio (1.7).

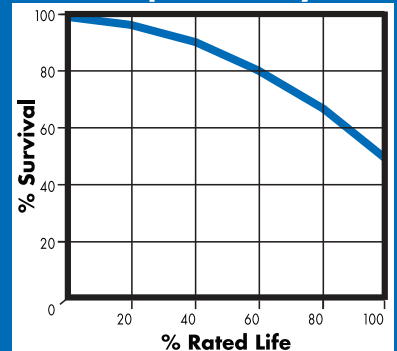
### Spectral Distribution



### 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.