

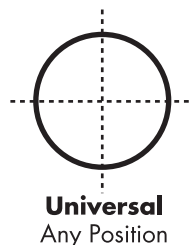
400 Watt Probe Start Lamp

59441

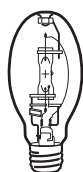
DATA SHEET



White-Lux
Retrofit Lamps
for HPS Fixtures
Switch To Bright,
White Light
From Existing
HPS Fixtures
 As Simple as a
 Change of a Lamp



ED28



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

MH 400W/U/LU/ED28

GENERAL Characteristics

Lamp Type	Standard MH Single Ended
ANSI Code	S51/E Compatible
Bulb Shape	ED28
Base Type	Mogul (E39)
Bulb Finish	Clear
Rated Life	20000 hours
Operating Position	Universal

PHOTOMETRIC

Initial Lumens	41000
Lumens Per Watt	95
Lamp Lumen Depreciation (LLD)	0.65 (65%) @ 8000 hours
Correlated Color Temperature	4000K
Chromaticity Coordinates (CIE-x,y)	.385 .390
Color Rendering Index (CRI) R_a	65

PHYSICAL

Bulb Diameter	3.5" (90mm)
Max. Overall Length (MOL)	8.3" (211mm)
Light Center Length (LCL)	5.0" (127mm)
Effective Arc Length	35.4 mm
Max. Base Temperature (°C)	230
Max. Bulb Temperature (°C)	450
Socket Pulse Rating (KV)	4
Luminaire Type	Enclosed Rated

ELECTRICAL

Lamp Watts	430
Lamp Oper. Voltage (Nom.)	110
Metal Halide Replacement for	LU 400
Dimming	50% Rated Power

SUSTAINABILITY

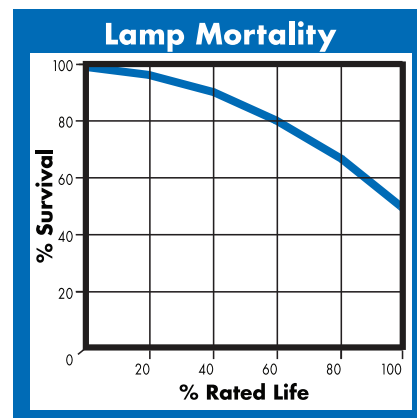
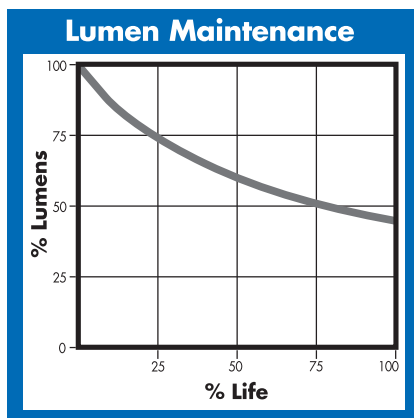
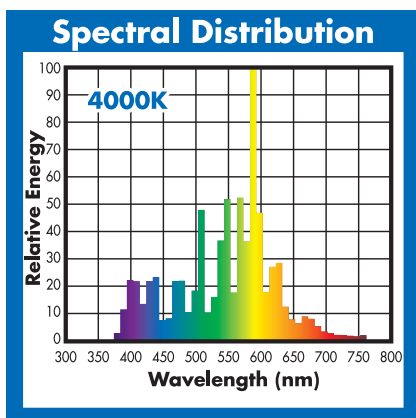
Mercury Amount (mg)	38.0
Picograms of Hg per Mean Lumen Hour	71

NOTES

- Lamp performance ratings published in this data sheet are based upon operation with magnetic ballasts.
- Performance ratings of Universal lamps are based upon Vertical ($\pm 15^\circ$) operation.
- Dimming applicable only when lamp is installed in the Base Up $\pm 15^\circ$ (BU $\pm 15^\circ$) position.
- To calculate nighttime Scotopic lumens, multiply the lumen rating by the S/P ratio (1.7).

Change Just the Lamp:

- Complete electrical compatibility with HPS systems
- Designed for photometric compatibility with HPS systems
- Clear and coated outer jacket options
- Shrouded open-rated lamps available in 250 and 400 watts
- Excellent color rendering (65-70 CRI vs. 22 CRI for HPS)



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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.