



Metal Halide Probe Start Specifications

400 Watt Probe Start Metal Halide Lamps

Performance Data Note: C signifies a coated outer jacket ANSI Designation: E = Enclosed rated luminaire, O = Open rated luminaire

| Item # | Description | ANSI Designation | Light Output (Lumens @ 100 Hrs.) | Lamp Lumens Per Watt | Mean Output (Lumens) | Related Life (Hours @ 10 Hr./Start) | Correlated Color Temperature K | Chromaticity (CIE-X,Y) | Color Rendering Index (CRI) | Warm Up Time (Minutes) | Hot Restart Time (Minutes) | Burning Position |
|--------|------------------|------------------|----------------------------------|----------------------|----------------------|-------------------------------------|--------------------------------|------------------------|-----------------------------|------------------------|----------------------------|------------------|
| 46340 | MH 400W/U | M59/E | 36000 V | 90 V | 23000 V | 20000 V | 4000 | .385 | 65 | 3-5 | 7-12 | Universal |
| | | | 32400 H | 81 H | 21100 H | 15000 H | | .390 | | | | |
| 46341 | MH 400W/C/U | M59/E | 34000 V | 85 V | 22000 V | 20000 V | 3700 | .395 | 70 | 3-5 | 7-12 | Universal |
| | | | 30600 H | 76 H | 19900 H | 15000 H | | .390 | | | | |
| 46352 | MH 400W/U/ED28 | M59/E | 36000 V | 90 V | 23500 V | 20000 V | 4000 | .385 | 65 | 3-5 | 7-12 | Universal |
| | | | 32400 H | 81 H | 21100 H | 15000 H | | .390 | | | | |
| 46347 | MH 400W/C/U/ED28 | M59/E | 34000 V | 85 V | 22000 V | 20000 V | 3700 | .395 | 70 | 3-5 | 7-12 | Universal |
| | | | 30600 H | 76 H | 19900 H | 15000 H | | .390 | | | | |
| 46344 | MS 400W/BU | M59/E | 40000 | 100 | 26000 | 20000 | 4000 | .385 | 65 | 3-5 | 7-12 | BU±15° |
| | | | | | | | | .390 | | | | |
| 46345 | MS 400W/C/BU | M59/E | 38000 | 95 | 24000 | 20000 | 3700 | .395 | 70 | 3-5 | 7-12 | BU±15° |
| | | | | | | | | .390 | | | | |
| 46346 | MP 400W/BU/UVG | M59/O | 36000 | 95 | 23000 | 20000 | 4000 | .385 | 65 | 3-5 | 7-12 | BU±15° |
| | | | | | | | | .390 | | | | |

Physical Data / Requirements:

| | | | |
|----------------------------|-------------|----------------|--------------|
| Base Designation | Mogul (E39) | Mogul (E39) | Mogul (EX39) |
| Bulb Designation | ED28 (MH) | ED37 (MH & MS) | ED37 |
| Bulb Diameter | 3 1/2" | 4 5/8" | 4 5/8" |
| Max. Overall Length (MOL) | 8 9/16" | 11 1/2" | 11 1/2" |
| Light Center Length (LCL) | 5" | 7" | 7" |
| Effective Arc Length | 35.4 mm | 35.4 mm | 35.4 mm |
| Max. Base Temperature (°C) | 230 | 210 | 210 |
| Max. Bulb Temperature (°C) | 400 | 400 | 400 |
| Luminaire Type | Enclosed | Enclosed | Open |
| Socket Style | Mogul | Mogul | Mogul |

Electrical Data / Requirements:

| | |
|-----------------------------|-----|
| Lamp Wattage | 400 |
| Operating Voltage (Nominal) | 135 |
| Operating Currents (Amps) | 3.2 |

Notes:

Lamp operates on standard 400 watt (M59) metal halide ballast.

Nominal color temperature rating is based on vertical (±15°) operation of the lamp.

Off vertical positions will result in higher color temperature.

UV Guard™ reduces normal UV emissions up to 90% in MP lamps.

MP lamps are open luminaire rated and contain shrouded arc tubes.

Special open rated socket is required (EX39) for MP lamps.

