



# Product Specification Bulletin

360 Watt

ENERGY MASTER®

Clear - 4K

Mogul - Enclosed Luminaire  
Reduced Outer Jacket



**MS 360W/BU/ED28/EM**

**Product Number 69335**

**Lamp Type**

SINGLE ENDED METAL HALIDE

**ANSI Designation**

M59 BALLAST COMPATIBLE

**Performance Data**

|   |               |
|---|---------------|
| <i>Light Output (Lumens @ 100 Hrs.)</i>   | 36000         |
| <i>Lamp Lumens Per Watt</i>               | 100           |
| <i>Mean Output (Lumens)</i>               | 23400         |
| <i>Rated Life (Hrs. @ 10 Hr. / Start)</i> | 20000         |
| <i>Correlated Color Temperature K</i>     | 4000          |
| <i>Chromaticity (CIE -X, Y)</i>           | .385 .390     |
| <i>Color Rendering Index (CRI)</i>        | 65            |
| <i>Typical Warm Up Time (Minutes)</i>     | 3-5           |
| <i>Typical Hot Restart Time (Minutes)</i> | 8-12          |
| <i>Burning Position</i>                   | BASE UP ± 15° |

**Physical Data / Requirements**

|                                   |             |
|-----------------------------------|-------------|
| <i>Base Designation</i>           | MOGUL (E39) |
| <i>Bulb Designation</i>           | ED28        |
| <i>Bulb Diameter</i>              | 3 1/2"      |
| <i>Max. Overall Length (MOL)</i>  | 8 5/16"     |
| <i>Light Center Length (LCL)</i>  | 5"          |
| <i>Effective Arc Length</i>       | 31.2 mm     |
| <i>Max. Base Temperature (°C)</i> | 230         |
| <i>Max. Bulb Temperature (°C)</i> | 450         |
| <i>Fixture Type</i>               | ENCLOSED    |
| <i>Socket Pulse Rating (KV)</i>   | -           |
| <i>Socket Style</i>               | MOGUL       |

**Electrical Data / Requirements**

|   |     |
|---|-----|
| <i>Lamp Wattage</i>                           | 360 |
| <i>Operating Voltage (Nominal)</i>            | 120 |
| <i>Operating Current (Amps)</i>               | 3.2 |
| <i>Min. Open Circuit Voltage (RMS)</i>        | -   |
| <i>Min. -Max. Starting Pulse (Peak V)</i>     | -   |
| <i>Min. Pulse Width At 2700 Volts (u sec)</i> | -   |
| <i>Min. Pulse Rate Per 1/2 Cycle</i>          | -   |
| <i>Pulse Position (Min. % OCV Peak)</i>       | -   |

**Revision:** 8/23/2000

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**Notes**

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

**Lamps**

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.