### GENERAL Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp Type</td>
<td>MH Pulse Start Single Ended</td>
</tr>
<tr>
<td>ANSI Code</td>
<td>M178/E</td>
</tr>
<tr>
<td>Bulb Shape</td>
<td>BT37</td>
</tr>
<tr>
<td>Base Type</td>
<td>Mogul (E39)</td>
</tr>
<tr>
<td>Bulb Finish</td>
<td>Clear</td>
</tr>
<tr>
<td>Rated Life</td>
<td>40000 hours</td>
</tr>
<tr>
<td>Operating Position</td>
<td>Base Down ±15°</td>
</tr>
</tbody>
</table>

### PHOTOMETRIC

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Lumens</td>
<td>45000</td>
</tr>
<tr>
<td>Lumens Per Watt</td>
<td>82</td>
</tr>
<tr>
<td>Lamp Lumen Depreciation (LLD)</td>
<td>0.90 (90%) @ 16000 hours</td>
</tr>
<tr>
<td>Correlated Color Temperature</td>
<td>5000K</td>
</tr>
<tr>
<td>Chromaticity Coordinates (CIE-x,y)</td>
<td>.346 .359</td>
</tr>
<tr>
<td>Color Rendering Index (CRI) R_a</td>
<td>90+</td>
</tr>
</tbody>
</table>

### PHYSICAL

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulb Diameter</td>
<td>4.6” (120mm)</td>
</tr>
<tr>
<td>Max. Overall Length (MOL)</td>
<td>11.5” (292mm)</td>
</tr>
<tr>
<td>Light Center Length (LCL)</td>
<td>7.0” (178mm)</td>
</tr>
<tr>
<td>Effective Arc Length</td>
<td>42.2mm</td>
</tr>
<tr>
<td>Max. Base Temperature (°C)</td>
<td>230</td>
</tr>
<tr>
<td>Max. Bulb Temperature (°C)</td>
<td>450</td>
</tr>
<tr>
<td>Socket Pulse Rating (KV)</td>
<td>4</td>
</tr>
<tr>
<td>Luminare Type</td>
<td>Enclosed Rated</td>
</tr>
</tbody>
</table>

### ELECTRICAL

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp Watts</td>
<td>550</td>
</tr>
<tr>
<td>Lamp Oper. Voltage (Nom.)</td>
<td>135</td>
</tr>
</tbody>
</table>

### SUSTAINABILITY

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mercury Amount (mg)</td>
<td>56.0</td>
</tr>
<tr>
<td>Picograms of Hg per Mean Lumen Hour</td>
<td>35</td>
</tr>
</tbody>
</table>

### NOTES

- Lamp performance ratings published in this data sheet are based upon operation with magnetic ballasts.
- Operation of position-rated lamps outside of their tolerances will result in poor performance.
- Minimum Starting Temperature: -40°C/°F.
- To calculate nighttime Scotopic lumens, multiply the lumen rating by the S/P ratio (2.1).

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**Spectral Distribution**

![Spectral Distribution](image)

**Lumen Maintenance**

![Lumen Maintenance](image)

**Lamp Mortality**

![Lamp Mortality](image)