## Models

**LED-8090-XX-E40-A, 120-277VAC, CE, ROHS, 4000K & 5000K CCT**

### Description

Light Efficient Design’s Shoebox / Wall Pack retrofits replace HID lamps up to 400W HID. Advanced Active Cooling technology improves thermal performance and delivers the highest light output along with longer LED and driver life versus lamps limited to passive cooling. Internal fans have thermal feedback and a long life (70,000 hours).

### Features

- 120W LED Replaces up to 400W MH or HPS HID Lamps
- Up to 13,300 lumen output and 112 LPW efficacy
- Available in E40 screw base
- Suitable for enclosed fittings
- Advanced active cooling: Active cooling and dynamic temperature control
- Integrated 6kA surge
- 50,000 hour rated LED life (supported by LM80 and ISTMT reports (see website)
- 5 Year Limited Warranty - see website for details
- Insect/dust resistant housing

### Technical Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VOLTAGE</th>
<th>WATTAGE</th>
<th>LUMENS*</th>
<th>LPW*</th>
<th>REPLACES</th>
<th>BASE</th>
<th>CCT</th>
<th>CRI*</th>
<th>THD*</th>
<th>PF*</th>
<th>R9*</th>
<th>Duv*</th>
<th>LIGHT DISTRIBUTION</th>
<th>DIMMABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED-8090-CW-E40-A</td>
<td>120-277V</td>
<td>120W</td>
<td>13312</td>
<td>110</td>
<td>400W HID</td>
<td>E40</td>
<td>4000K</td>
<td>84.6</td>
<td>0.1762</td>
<td>0.91</td>
<td>18</td>
<td>0.0003</td>
<td>120°</td>
<td>No</td>
</tr>
<tr>
<td>LED-8090-DL-E40-A</td>
<td></td>
<td>13373</td>
<td>112</td>
<td></td>
<td>5000K</td>
<td></td>
<td>83.6</td>
<td>0.1827</td>
<td>0.9</td>
<td>15</td>
<td>0.0031</td>
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</tbody>
</table>

### Packaging Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PRODUCT DIMENSION</th>
<th>PRODUCT WEIGHT</th>
<th>UNIT CARTON DIMENSION</th>
<th>UNIT CTN WT</th>
<th>SHIPPER CARTON DIMENSION</th>
<th>SHIPPER CTN WT</th>
<th>CARTON QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED-8089-XX-E40-A</td>
<td>289 X 109 mm</td>
<td>1.07 KG</td>
<td>150 X 150 X 335 mm</td>
<td>1.286 KG</td>
<td>470 X 470 X 350 mm</td>
<td>11.6 KG</td>
<td>9</td>
</tr>
</tbody>
</table>

### Energy SAVING vs. HID

- **LED Lamp Power (watts):** 120
- **HID Lamp Power (watts):** 400
- **HID Ballast Power (watts):** 60

### Zonal LUMENS/ LUX DISTANCE DATA

<table>
<thead>
<tr>
<th>Power (watts)</th>
<th>Center Beam fc</th>
<th>Beam Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.0R</td>
<td>16.6 fc</td>
<td>50.8 ft</td>
</tr>
<tr>
<td>34.0R</td>
<td>4.15 fc</td>
<td>101.6 ft</td>
</tr>
<tr>
<td>51.0R</td>
<td>1.85 fc</td>
<td>152.3 ft</td>
</tr>
<tr>
<td>68.0R</td>
<td>1.04 fc</td>
<td>203.1 ft</td>
</tr>
<tr>
<td>85.0R</td>
<td>0.66 fc</td>
<td>253.9 ft</td>
</tr>
<tr>
<td>102.0R</td>
<td>0.46 fc</td>
<td>304.7 ft</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power (watts)</th>
<th>Vert. Spread 112.4°</th>
<th>Horiz. Spread 110.8°</th>
</tr>
</thead>
</table>

### Mounting Orientation

- BASE DOWN: APPROVED
- BASE UP: APPROVED
- HORIZONTAL: APPROVED

### Thermal Specifications

- Recommended Minimum Fitting Size: 305
- IN-SITU TEMP MEASUREMENT/L70
- OPERATING TEMPERATURE: -40°C to +50°C

### Annual Energy Savings

- £136

### Lifetime Energy Savings over 50,000 hrs

- £1,326

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*Note:*

- **LM79** for more information

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