LED Retrofit Lamps
For
Decorative Post Top & Tear Drop luminaires plus HID High Bays

January 22, 2018
Howard Lighting LED Retrofit Solutions for HID luminaires

Howard Lighting offers an line of LED retrofit lamps for existing HID decorative post top, tear drop and High Bay luminaires.

- LEDMR
- LEDMEDR
- LEDMXR
- LEDMHR (New Product for 2018)
- LEDMBR (New Product for 2018)
- LEDMAR (New Product for 2018)

- Standard CCT is 3000K and 4000K
- Optional 1900K is available for locations requiring amber light to meet turtle friendly color (CCT). Note: this is not a stocked color.
LEDMR
Mogul-Base LED Replacement Lamp
3000K, 4000K / 30W, 40W, 50W / 125 Lm/W

LEDMR is a LED replacement lamp for HID decorative luminaires.

Features
- 360 degree of beam angle
- 125 Lm/W
- Power Factor: > 0.9
- Long Life: 10 years
- CCT: 3000K or 4000K; CRI >80
- Operation temperature range: -30 to +60°C
- Built-in 4kV surge protection
- 120-277v, 50/60Hz
- IP65 design – driver is fully potted with silicone
- Waterproof, dust proof and bug proof
- UL/cUL listed
- DLC listed
- Non-dimming
- Warranty: 5 years
- No fan

Ordering Information

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Lumens</th>
<th>CCT</th>
<th>Watts</th>
<th>Lm/W</th>
<th>Cover</th>
<th>Base*</th>
<th>Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDMR-3030-MV</td>
<td>3750</td>
<td>3000K</td>
<td>30W</td>
<td>125</td>
<td>Slight Frost</td>
<td>E39 Mogul</td>
<td>70W HID</td>
</tr>
<tr>
<td>LEDMR-4030-MV</td>
<td>3750</td>
<td>4000K</td>
<td>30W</td>
<td>125</td>
<td>Slight Frost</td>
<td>E39 Mogul</td>
<td>70W HID</td>
</tr>
<tr>
<td>LEDMR-4040-MV</td>
<td>5000</td>
<td>4000K</td>
<td>40W</td>
<td>125</td>
<td>Slight Frost</td>
<td>E39 Mogul</td>
<td>100W HID</td>
</tr>
<tr>
<td>LEDMR-3050-MV</td>
<td>6250</td>
<td>3000K</td>
<td>50W</td>
<td>125</td>
<td>Slight Frost</td>
<td>E39 Mogul</td>
<td>175W HID</td>
</tr>
<tr>
<td>LEDMR-4050-MV</td>
<td>6250</td>
<td>4000K</td>
<td>50W</td>
<td>125</td>
<td>Slight Frost</td>
<td>E39 Mogul</td>
<td>175W HID</td>
</tr>
</tbody>
</table>

No Ballast needed (UL Type B) Internal driver/line voltage lamp Remove ballast from fixture
LEDMEDR
Medium-Base LED Replacement Lamp
3000K, 4000K / 15W, 19W, 24W / 130 Lm/W

LEDMEDR is a LED replacement lamp for HID decorative luminaires.

Features
- 360 degree of beam angle
- 130 Lm/W
- Power Factor: > 0.9
- Long Life: 10 years
- CCT: 3000K or 4000K; CRI >80
- Operation temperature range: -30 to +60°C
- Built-in 4kV surge protection
- 120-277v, 50/60Hz

- IP65 design – driver is fully potted with silicone
- Waterproof, dust proof and bug proof
- UL/cUL listed
- DLC listed
- Non-dimming
- Warranty: 5 years
- No fan

No Ballast needed (UL Type B)
Internal driver/line voltage lamp
Remove ballast from fixture

Ordering Information

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Lumens</th>
<th>CCT</th>
<th>Watts</th>
<th>Lm/W</th>
<th>Cover</th>
<th>Base</th>
<th>Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDMEDR-3015-MV</td>
<td>1950</td>
<td>3000</td>
<td>15</td>
<td>130</td>
<td>Clear</td>
<td>E26 MED</td>
<td>50W HPS or MH</td>
</tr>
<tr>
<td>LEDMEDR-4015-MV</td>
<td>1950</td>
<td>4000</td>
<td>15</td>
<td>130</td>
<td>Clear</td>
<td>E26 MED</td>
<td>50W HPS or MH</td>
</tr>
<tr>
<td>LEDMEDR-3019-MV</td>
<td>2470</td>
<td>3000</td>
<td>19</td>
<td>130</td>
<td>Clear</td>
<td>E26 MED</td>
<td>70W HPS or MH</td>
</tr>
<tr>
<td>LEDMEDR-4019-MV</td>
<td>2470</td>
<td>4000</td>
<td>19</td>
<td>130</td>
<td>Clear</td>
<td>E26 MED</td>
<td>70W HPS or MH</td>
</tr>
<tr>
<td>LEDMEDR-3024-MV</td>
<td>3120</td>
<td>3000</td>
<td>24</td>
<td>130</td>
<td>Clear</td>
<td>E26 MED</td>
<td>100W HPS or MH</td>
</tr>
<tr>
<td>LEDMEDR-4024-MV</td>
<td>3120</td>
<td>4000</td>
<td>24</td>
<td>130</td>
<td>Clear</td>
<td>E26 MED</td>
<td>100W HPS or MH</td>
</tr>
</tbody>
</table>
LEDMXR
Mogul-Base LED Replacement Lamp
3000K, 4000K / 27W, 36W, 45W, 54W

LEDMXR is a LED replacement lamp for HID decorative luminaires. The LEDMXR offers cutoff distribution to reduce up light in decorative post tops.

Features
- Reduced up light
- 107-109 Lm/W
- Power Factor: > 0.9
- Long Life: 10 years
- CCT: 3000K or 4000K; CRI >80
- Operation temperature range: -40 to +140°F
- 120-277v, 50/60Hz
- Built-in 4kV surge protection
- IP64 design – driver is fully potted with silicone
- Waterproof, dust proof and bug proof
- UL/cUL listed
- DLC listed
- Non-dimming
- Warranty: 5 years
- No fan

<table>
<thead>
<tr>
<th>Ordering Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Catalog #</strong></td>
</tr>
<tr>
<td>LEDMXR-3027-MV</td>
</tr>
<tr>
<td>LEDMXR-4027-MV</td>
</tr>
<tr>
<td>LEDMXR-3036-MV</td>
</tr>
<tr>
<td>LEDMXR-4036-MV</td>
</tr>
<tr>
<td>LEDMXR-3045-MV</td>
</tr>
<tr>
<td>LEDMXR-4045-MV</td>
</tr>
<tr>
<td>LEDMXR-3054-MV</td>
</tr>
<tr>
<td>LEDMXR-4054-MV</td>
</tr>
</tbody>
</table>
LEDMHR
Mogul-Base LED Replacement lamp
3000K, 4000K / 80w, 100w

LEDMHR is a LED replacement lamp for high wattage HID decorative luminaires.

**Features**
- 135 Lm/W
- Power Factor: > 0.9
- Long Life: 10 years
- CCT: 3000K or 4000K; CRI >80
- Operation temperature range: -40 to +60°C
- 120-277v, 50/60Hz
- 6kV surge protection
- IP64 design – driver is fully potted with silicone
- Waterproof, dust proof and bug proof
- UL/cUL listed
- DLC listed
- Non-dimming
- Warranty: 5 years
- No fan

**Ordering Information**

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Lumens</th>
<th>CCT</th>
<th>Watts</th>
<th>Lm/W</th>
<th>Cover</th>
<th>Base</th>
<th>Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDMHR-3080-MV</td>
<td>10800</td>
<td>3000</td>
<td>80</td>
<td>135</td>
<td>Clear</td>
<td>EX39</td>
<td>250W HPS or MH</td>
</tr>
<tr>
<td>LEDMHR-4080-MV</td>
<td>10800</td>
<td>4000</td>
<td>80</td>
<td>135</td>
<td>Clear</td>
<td>EX39</td>
<td>250W HPS or MH</td>
</tr>
<tr>
<td>LEDMHR-30100-MV</td>
<td>13500</td>
<td>3000</td>
<td>100</td>
<td>135</td>
<td>Clear</td>
<td>EX39</td>
<td>400W HPS or MH</td>
</tr>
<tr>
<td>LEDMHR-40100-MV</td>
<td>13500</td>
<td>4000</td>
<td>100</td>
<td>135</td>
<td>Clear</td>
<td>EX39</td>
<td>400W HPS or MH</td>
</tr>
</tbody>
</table>

No Ballast needed (UL Type B)
Internal driver/line voltage lamp
Remove ballast from fixture
LEDMBR
Mogul-Base LED Replacement lamp
3000K, 4000K / 80w, 115w

LEDMBR is a LED replacement lamp for high HID high bay or garage luminaires.

Features
- 115 - 140 Lm/W
- Power Factor: > 0.9
- Long Life: 10 years
- CCT: 3000K or 4000K; CRI >80
- Operation temperature range: -40 to +60°C
- 120-277v, 50/60Hz
- 6kV surge protection
- IP64 design – driver is fully potted with silicone
- Waterproof, dust proof and bug proof
- UL/cUL listed
- Non-dimming
- Warranty: 5 years
- No fan

Ordering Information

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Lumens</th>
<th>CCT</th>
<th>Watts</th>
<th>Lm/W</th>
<th>Cover</th>
<th>Base</th>
<th>Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDMBR-3080-MV</td>
<td>9200</td>
<td>3000</td>
<td>80</td>
<td>115</td>
<td>Clear</td>
<td>EX39</td>
<td>250W HPS or MH</td>
</tr>
<tr>
<td>LEDMBR-4080-MV</td>
<td>9200</td>
<td>4000</td>
<td>80</td>
<td>115</td>
<td>Clear</td>
<td>EX39</td>
<td>250W HPS or MH</td>
</tr>
<tr>
<td>LEDMBR-30115-MV</td>
<td>16100</td>
<td>3000</td>
<td>115</td>
<td>140</td>
<td>Clear</td>
<td>EX39</td>
<td>400W HPS or MH</td>
</tr>
<tr>
<td>LEDMBR-40115-MV</td>
<td>16100</td>
<td>4000</td>
<td>115</td>
<td>140</td>
<td>Clear</td>
<td>EX39</td>
<td>400W HPS or MH</td>
</tr>
</tbody>
</table>

No Ballast needed (UL Type B)
Internal driver/line voltage lamp
Remove ballast from fixture
LEDMAR
Mogul-Base LED Replacement lamp
3000K, 4000K / 80w, 110w

LEDMAR is a LED replacement lamp for high HID area luminaires.

Features

- 115 - 120 Lm/W
- Power Factor: > 0.9
- Long Life: 10 years
- CCT: 3000K or 4000K; CRI >80
- Operation temperature range: -40 to +60°C
- 120-277v, 50/60Hz
- 6kV surge protection

- IP64 design – driver is fully potted with silicone
- Waterproof, dust proof and bug proof
- UL/cUL listed
- Non-dimming
- Warranty: 5 years
- No fan

Ordering Information

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Lumens</th>
<th>CCT</th>
<th>Watts</th>
<th>Lm/W</th>
<th>Cover</th>
<th>Base</th>
<th>Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDMAR-3080-MV</td>
<td>9600</td>
<td>3000</td>
<td>80</td>
<td>120</td>
<td>Clear</td>
<td>EX39</td>
<td>250W HPS or MH</td>
</tr>
<tr>
<td>LEDMAR-4080-MV</td>
<td>9600</td>
<td>4000</td>
<td>80</td>
<td>120</td>
<td>Clear</td>
<td>EX39</td>
<td>250W HPS or MH</td>
</tr>
<tr>
<td>LEDMAR-30110-MV</td>
<td>13200</td>
<td>3000</td>
<td>115</td>
<td>115</td>
<td>Clear</td>
<td>EX39</td>
<td>400W HPS or MH</td>
</tr>
<tr>
<td>LEDMAR-40110-MV</td>
<td>13200</td>
<td>4000</td>
<td>115</td>
<td>115</td>
<td>Clear</td>
<td>EX39</td>
<td>400W HPS or MH</td>
</tr>
</tbody>
</table>

No Ballast needed (UL Type B)
Internal driver/line voltage lamp
Remove ballast from fixture
LED Retrofit Demo Kit

Each regional manager has a LED Retrofit Demo Kit to promote our line of LED retrofit lamps. Each kit provides a digital display of voltage, wattage, power factor and energy savings. To schedule a demo or request the use of the LED Retrofit Demo Kit contact your regional manager.
Literature
We offer the following literature for LED Retrofit Lamps:

- LEDMR spec sheet
- LEDMEDR spec sheet
- LEDMXR spec sheet
- LEDMHR spec sheet (coming soon)
- LEDMBR spec sheet (coming soon)
- LEDMAR spec sheet (coming soon)

Check out our literature library under Documents/Forms on our home page at [www.howard-lighting.com](http://www.howard-lighting.com) for a full list of literature.
For more information on other Howard Lighting products, contact the Howard Lighting (Utility/DOT) regional manager in your area or our customer service team.

Customer Service
Fax: 601.422.1652

Ken Brewer | kbrewer@howard.com
601.422.1659
VA, KY, OH, IN, MI, WI, MD, DE, PA, NY, NJ, CT, RI, VT, NH, ME, IL, E. MO

Terri Temple | ttemple@howard.com
601.422.1678
GA, SC, NC, TN, MS, AL, AR, IA

Hope Simon | hsimon@howard.com
601.422.1679
CA, NV, AZ, NM, TX, OK, WA, OR, ID, MT, CO, WY, UT, KS, WYO, NE, IA, MN, WI, ND, SD, HI, AK

Cindy Waldrep | cwaldrep@howard.com
601.422.1654
FL, National ESCO/OEM

Katy Eaton
Western Regional Manager
Utility/DOT Lighting
601.470.2961
keaton@howard.com

Dorral Ward
Vice President, Sales & Marketing
678.641.2986
dward@howard.com

Marcus Yahnie
Central Regional Manager
Utility/DOT Lighting
601.577.4230
myahnie@howard.com
Vice President, Sales & Marketing
Dorral Ward
678.641.2986
dward@howard.com