The LEDMPAL series is a group of architectural LED area luminaires designed to illuminate parking areas, pathways, building facades, loading docks, and a wide variety of other large, general site lighting applications. Multiple mounting options make the LEDMPAL a versatile luminaire for flood lighting, pole-, ground- and wall-mounted area lighting, and other outdoor lighting requirements.

**FEATURES**
- Available in 3000k (warm white), 4000K (neutral white) and 5000K (cool white). *
- Long-life LEDs provide 69,000 hours of operation with at least 70% of initial lumen output (L70). **
- Delivers 1,570 lumens & 105 lumens per watt (LPW) at 3000k; 1,615 lumens and 108 LPW at 4000k; and 1,667 lumens & 111 LPW at 5000k.
- Standard optic provides an IES roadway type V distribution, or a 7V (vertical) x 7H (horizontal) NEMA floodlight distribution.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Optional full glare shields, half glare shields & wire guards are available.
- Die cast aluminum housing with durable, dark bronze powder coat finish, and a heat-resistant polycarbonate lens.
- Wireway enclosure is sealed with a water-tight, silicon rubber gasket.
- Effective projected areas (EPA’s) are:
  - Front = 0.05 square feet
  - Side = 0.04 square feet
  - Face = 0.12 square feet
- Easy installation in new construction or retrofit applications.

* Contact factory for other color temperatures and lumen packages.
** L70 hours are IES TM-21-11 calculated hours.

**WARRANTY & LISTINGS**
- cULus listed for wet locations (-30°C to 40°C / -22°F to 104°F)
- IP65 rated.
- DLC standard approved.
- Complies with FCC Part 15, Class B.
- Complies with EN61000-4-5, surge immunity (1kV).
- 5-year warranty on all electronics and housing.

**MOUNTING OPTIONS**
- Yoke-mount option provides secure attachment to flat surfaces.
- Aluminum die-cast knuckle-mount option is installed on(486,190),(933,996)

**DIMENSIONS**
- Yoke-Mount Option
- Knuckle-Mount Option

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Model</th>
<th>Luminaire Watts</th>
<th>Luminaire Lumens</th>
<th>Lumens / Watt</th>
<th>Mounting Options</th>
<th>Color Temperature</th>
<th>Shields &amp; Wire Guards</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDMPAL15</td>
<td>15</td>
<td>1,570</td>
<td>105</td>
<td>Y = Yoke Mount</td>
<td>3K = 3000k</td>
<td>MPAL15-FGS = Full Glare Shield, 15W</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,615</td>
<td>108</td>
<td>K = Knuckle Mount</td>
<td>4K = 4000k</td>
<td>MPAL15-HGS = Half Glare Shield, 15W</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,667</td>
<td>111</td>
<td></td>
<td>5K = 5000k</td>
<td>MPAL15-WG = Wire Guard, 15W</td>
</tr>
</tbody>
</table>

Example: LEDMPAL15-Y-3K + MPAL15-FGS
**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>Model</th>
<th>Color Temperature</th>
<th>CRI ¹</th>
<th>Luminaire Lumens</th>
<th>Luminaire Watts</th>
<th>Lumens Per Watt</th>
<th>Input Voltage²</th>
<th>Input Current (A)</th>
<th>Power Factor</th>
<th>THD ³</th>
<th>L₇₀ 4 Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDMPAL15-3K</td>
<td>3000k</td>
<td>&gt; 80</td>
<td>1,570</td>
<td>15</td>
<td>105</td>
<td>120-277</td>
<td>0.13</td>
<td>0.06</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>LEDMPAL15-4K</td>
<td>4000k</td>
<td>&gt; 80</td>
<td>1,615</td>
<td>15</td>
<td>108</td>
<td>120-277</td>
<td>0.13</td>
<td>0.06</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
<tr>
<td>LEDMPAL15-5K</td>
<td>5000k</td>
<td>&gt; 80</td>
<td>1,667</td>
<td>15</td>
<td>111</td>
<td>120-277</td>
<td>0.13</td>
<td>0.06</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
</tr>
</tbody>
</table>

¹ Color rendering index.
² All 50-60Hz.
³ Total harmonic distortion.
⁴ L₇₀ refers to the number of hours at which lumen output declines to 70% of the initial level. L₇₀ hours are IES TM-21-11 calculated hours.

**PHOTOMETRIC DATA**

LEDMPAL15-5K (1,667 Lumens, Type V Distribution)

**Notes:**
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

**NEMA Floodlight Type Data**

- **Field Angles:**
  - Horizontal 147°
  - Vertical 133°

- **NEMA Type:**
  - Horizontal 7H
  - Vertical 7V

**Luminaire Orientation:**

- Maximum Candela = 669
- Full Horizontal
- Half Vertical

**Shields**

- Full
- Half

**Wire Guards**

**BUG Rating:** B1-U1-G0

<table>
<thead>
<tr>
<th>Zone</th>
<th>Lumens</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL - Front - Low (0-30)</td>
<td>260</td>
<td>16%</td>
</tr>
<tr>
<td>FM - Front - Medium (30-60)</td>
<td>502</td>
<td>30%</td>
</tr>
<tr>
<td>FH - Front - High (60-80)</td>
<td>94</td>
<td>6%</td>
</tr>
<tr>
<td>FVH - Front - Very High (80-90)</td>
<td>5</td>
<td>0%</td>
</tr>
<tr>
<td>Total Forward Light</td>
<td>862</td>
<td>52%</td>
</tr>
<tr>
<td>BL - Back - Low (0-30)</td>
<td>254</td>
<td>15%</td>
</tr>
<tr>
<td>BM - Back - Medium (30-60)</td>
<td>459</td>
<td>28%</td>
</tr>
<tr>
<td>BH - Back - High (60-80)</td>
<td>86</td>
<td>5%</td>
</tr>
<tr>
<td>BVH - Back - Very High (80-90)</td>
<td>5</td>
<td>0%</td>
</tr>
<tr>
<td>Total Back Light</td>
<td>804</td>
<td>48%</td>
</tr>
<tr>
<td>UL - Up Light - Low (90-100)</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>UH - Up Light - High (100-180)</td>
<td>1</td>
<td>0%</td>
</tr>
<tr>
<td>Total Up Light</td>
<td>1</td>
<td>0%</td>
</tr>
<tr>
<td>Total Lumens</td>
<td>1,667</td>
<td>100%</td>
</tr>
</tbody>
</table>
The LEDMPAL series is a group of architectural LED area luminaires designed to illuminate parking areas, pathways, building facades, loading docks, and a wide variety of other large, general site lighting applications. Multiple mounting options make the LEDMPAL a versatile luminaire for flood lighting, pole-, ground- and wall-mounted area lighting, and other outdoor lighting requirements.

**FEATURES**
- Available in 3000k (warm white), 4000K (neutral white) and 5000K (cool white). *
- Long-life LEDs provide 69,000 hours of operation with at least 70% of initial lumen output (L70). **
- Delivers 3,453 lumens & 115 lumens per watt (LPW) at 3000k; 3,586 lumens and 120 LPW at 4000k; and 3,718 lumens & 124 LPW at 5000k. *
- Standard optic provides an IES roadway type V distribution, or a 7V (vertical) x 7H (horizontal) NEMA floodlight distribution.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Optional full glare shields, half glare shields & wire guards are available.
- Die cast aluminum housing with durable, dark bronze powder coat finish, and a heat-resistant polycarbonate lens.
- Wireway enclosure is sealed with a water-tight, silicon rubber gasket.
- Effective projected areas (EPA’s) are:
  - Front = 0.09 square feet
  - Side = 0.07 square feet
  - Face = 0.29 square feet
- Easy installation in new construction or retrofit applications.

* Contact factory for other color temperatures and lumen packages.
** L70 hours are IES TM-21-11 calculated hours.

**WARRANTY & LISTINGS**
- cULus listed for wet locations (-30°C to 40°C / -22°F to 104°F)
- IP65 rated.
- DLC standard approved.
- Complies with FCC Part 15, Class B.
- Complies with EN61000-4-5, surge immunity (1kV).
- 5-year warranty on all electronics and housing.

**MOUNTING OPTIONS**
- Yoke-mount option provides secure attachment to flat surfaces.
- Aluminum die-cast knuckle-mount option is installed on a junction box. Includes ½" NPS stem with locking nut.

**DIMENSIONS**

```
6 ¾”  1 ¾”  6 ¾”  5 ⅞”  7 ¼”
```

Weight: 2.6 lb.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Model</th>
<th>Luminaire Watts</th>
<th>Luminaire Lumens</th>
<th>Lumens / Watt</th>
<th>Mounting Options</th>
<th>Color Temperature</th>
<th>Shields &amp; Wire Guards (See Line Drawings Below)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDMPAL30</td>
<td>30</td>
<td>3,453</td>
<td>115</td>
<td>Y = Yoke Mount</td>
<td>3K = 3000k</td>
<td>MPAL30-FGS = Full Glare Shield, 15W</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3,586</td>
<td>120</td>
<td>K = Knuckle Mount</td>
<td>4K = 4000k</td>
<td>MPAL30-HGS = Half Glare Shield, 15W</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3,718</td>
<td>124</td>
<td></td>
<td>5K = 5000k</td>
<td>MPAL30-WG = Wire Guard, 15W</td>
</tr>
</tbody>
</table>

Example: LEDMPAL30-Y-3K + MPAL30-FGS
**ELECTRICAL DATA**

<table>
<thead>
<tr>
<th>Model</th>
<th>Color Temperature</th>
<th>CRI 1</th>
<th>Luminaire Lumens</th>
<th>Luminaire Watts</th>
<th>Lumens Per Watt</th>
<th>Input Voltage 2</th>
<th>Input Current (A)</th>
<th>Power Factor</th>
<th>THD 3</th>
<th>L70 Hours 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDMPAL30-3K</td>
<td>3000k</td>
<td>&gt; 80</td>
<td>3,453</td>
<td>30</td>
<td>115</td>
<td>120-277</td>
<td>0.25</td>
<td>0.13</td>
<td>&lt; 20%</td>
<td>69,000</td>
</tr>
<tr>
<td>LEDMPAL30-4K</td>
<td>4000k</td>
<td>&gt; 80</td>
<td>3,586</td>
<td>30</td>
<td>120</td>
<td>120-277</td>
<td>0.25</td>
<td>0.13</td>
<td>&lt; 20%</td>
<td>69,000</td>
</tr>
<tr>
<td>LEDMPAL30-5K</td>
<td>5000k</td>
<td>&gt; 80</td>
<td>3,718</td>
<td>30</td>
<td>124</td>
<td>120-277</td>
<td>0.25</td>
<td>0.13</td>
<td>&lt; 20%</td>
<td>69,000</td>
</tr>
</tbody>
</table>

1 Color rendering index.
2 All 50-60Hz.
3 Total harmonic distortion.
4 L70 refers to the number of hours at which lumen output declines to 70% of the initial level. L70 hours are IES TM-21-11 calculated hours.

**PHOTOMETRIC DATA**

**LEDMPAL15-5K (1,667 Lumens, Type V Distribution)**

- Foot Candles: 5.0, 2.0, 1.0, 0.5, 0.2, 0.1
- Luminaire Orientation:
- Gridlines represent units of mounting height of 25 feet.

**Notes:**
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

**NEMA Floodlight Type Data**

**Field Angles:**
- Horizontal 163°
- Vertical 152°

**NEMA Type:**
- Horizontal 7H
- Vertical 7V

**Maximum Candela = 1,235**

---

**BUG Rating: B1-U1-G1**

<table>
<thead>
<tr>
<th>Zone</th>
<th>Lumens</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL - Front - Low (0-30)</td>
<td>458</td>
<td>12%</td>
</tr>
<tr>
<td>FM - Front - Medium (30-60)</td>
<td>1,025</td>
<td>28%</td>
</tr>
<tr>
<td>FH - Front - High (60-80)</td>
<td>326</td>
<td>9%</td>
</tr>
<tr>
<td>FVH - Front - Very High (80-90)</td>
<td>34</td>
<td>1%</td>
</tr>
<tr>
<td>Total Forward Light</td>
<td>1,843</td>
<td>50%</td>
</tr>
<tr>
<td>BL - Back - Low (0-30)</td>
<td>466</td>
<td>13%</td>
</tr>
<tr>
<td>BM - Back - Medium (30-60)</td>
<td>1,041</td>
<td>28%</td>
</tr>
<tr>
<td>BH - Back - High (60-80)</td>
<td>330</td>
<td>9%</td>
</tr>
<tr>
<td>BVH - Back - Very High (80-90)</td>
<td>34</td>
<td>1%</td>
</tr>
<tr>
<td>Total Back Light</td>
<td>1,871</td>
<td>50%</td>
</tr>
<tr>
<td>UL - Up Light - Low (90-100)</td>
<td>1</td>
<td>0%</td>
</tr>
<tr>
<td>UH - Up Light - High (100-180)</td>
<td>4</td>
<td>0%</td>
</tr>
<tr>
<td>Total Up Light</td>
<td>4</td>
<td>0%</td>
</tr>
<tr>
<td>Total Lumens</td>
<td>3,718</td>
<td>100%</td>
</tr>
</tbody>
</table>

**Shields**
- Full
- Half

**Wire Guards**
**LEDMPAL80** 80 Watt Multi-Purpose LED Area Light

The LEDMPAL series is a group of architectural LED area luminaires designed to illuminate parking areas, pathways, building facades, loading docks, and a wide variety of other large, general site lighting applications. Multiple mounting options make the LEDMPAL a versatile luminaire for flood lighting, pole-, ground- and wall-mounted area lighting, and other outdoor lighting requirements.

**FEATURES**
- Available in 3000k (warm white), 4000K (neutral white) and 5000K (cool white).¹
- Long-life LEDs provide 69,000 hours of operation with at least 70% of initial lumen output (L70).²
- Standard optic provides an IES roadway type V distribution, or a 7V (vertical) x 7H (horizontal) NEMA floodlight distribution.
- Type III models deliver 9,257 lumens & 129 LPW at 3000k; and 10,542 lumens and 132 LPW at 5000k.³
- Type V models deliver 9,725 lumens & 122 LPW at 3000k; 10,033 lumens & 129 LPW at 4000k; and 10,342 lumens and 129 LPW at 5000k.³
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Optional glare shields (full & hall) & wire guards are available.
- Die cast aluminum housing with durable, dark bronze powder coat finish, and a heat-resistant polycarbonate lens.
- Wireway enclosure is sealed with a water-tight, silicon rubber gasket.
- Effective projected areas (EPA’s) are:
  - Front = 0.38 square feet
  - Side = 0.30 square feet
  - Face = 1.04 square feet
- Threaded receptacle (½” NPS) for photocell. Optional arms and slip-fitters provide additional photocell mounting options.
- Easy installation in new construction or retrofit applications.

* Contact factory for other color temperatures and lumen packages.

**WARRANTY & LISTINGS**
- cULus listed for wet locations (-30°C to 40°C / -22°F to 104°F)
- IP65 rated.
- DLC standard approved
- Complies with FCC Part 15, Class B.
- Complies with EN61000-4-5, surge immunity (2kV).
- 5-year warranty on all electronics and housing.

**MOUNTING OPTIONS**
- Trunnion mount is standard.
- Slip-fitter mount provides attachment to poles (2 ¾” O.D. tenon).
- Steel arm mount provides secure attachment to flat surfaces.
- Yoke models are available by special order.

**DIMENSIONS**
- Weight: 9.6 lb.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Model</th>
<th>Mounting Type</th>
<th>Luminaire Watts</th>
<th>Color Temp.</th>
<th>Distribution Type¹</th>
<th>Luminaire Luminous</th>
<th>Lumens / Watt</th>
<th>Options²</th>
<th>(Order Separately)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDMPAL80</td>
<td>T = Trunnion’</td>
<td>80</td>
<td>3K = 3000k</td>
<td>T3 = Type III</td>
<td>9,257</td>
<td>116</td>
<td>LEDMPAL-SF-80/300</td>
<td>Slip-Fitter Mount</td>
</tr>
<tr>
<td></td>
<td>Y = Yoke</td>
<td></td>
<td>4K = 4000k</td>
<td>T3 = Type III</td>
<td>10,307</td>
<td>129</td>
<td>LEDMPAL-A-80/300</td>
<td>Steel Arm Mount</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5K = 5000k</td>
<td>T3 = Type III</td>
<td>10,542</td>
<td>132</td>
<td>MPAL80/100/150-FGS</td>
<td>Full Glare Shield</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3K = 3000k</td>
<td>Type V</td>
<td>9,752</td>
<td>122</td>
<td>MPAL80/100/150-HGS</td>
<td>Half Glare Shield</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>4K = 4000k</td>
<td>Type V</td>
<td>10,033</td>
<td>125</td>
<td>MPAL80/100/150-WG</td>
<td>Wire Guard</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>5K = 5000k</td>
<td>Type V</td>
<td>10,342</td>
<td>129</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Note: For Slip-Fitter or Steel Arm mounting, order a luminaire with the standard Trunnion mount installed (LEDMPAL80-T), and either the Slip-Fitter (LEDMPAL-SF-80/300) or Steel Arm (LEDMPAL-A-80/300). The Slip-Fitter and Steel Arm mounts are shipped in separate cartons than the luminaire, and are field-installed after removing the standard Trunnion mount.

² Note: Type V distribution is standard, and requires no order suffix (see example above). For NEMA flood 7H x 7V distributions, order the Type V option.

---

**NOTE:**
- Power calculations: L70 hours are IES TM-21-11 calculated hours.
- °C/°F conversions.
### LEDMPAL80 80 Watt Multi-Purpose LED Area Light

#### ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Color Temperature</th>
<th>CRI</th>
<th>Luminaire Watts</th>
<th>Lumens Per Watt</th>
<th>Input Voltage</th>
<th>Input Current (A)</th>
<th>Power Factor</th>
<th>THD</th>
<th>L&lt;sub&gt;70&lt;/sub&gt; Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDMPAL80-3K-T3</td>
<td>3000k</td>
<td>&gt; 80</td>
<td>80</td>
<td>9,257</td>
<td>10,277</td>
<td>0.67</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
<td>69,000</td>
</tr>
<tr>
<td>LEDMPAL80-4K-T3</td>
<td>4000k</td>
<td>&gt; 80</td>
<td>80</td>
<td>10,307</td>
<td>10,277</td>
<td>0.67</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
<td>69,000</td>
</tr>
<tr>
<td>LEDMPAL80-5K-T3</td>
<td>5000k</td>
<td>&gt; 80</td>
<td>80</td>
<td>10,542</td>
<td>10,277</td>
<td>0.67</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
<td>69,000</td>
</tr>
<tr>
<td>LEDMPAL80-3K</td>
<td>3000k</td>
<td>&gt; 80</td>
<td>80</td>
<td>9,725</td>
<td>10,277</td>
<td>0.67</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
<td>69,000</td>
</tr>
<tr>
<td>LEDMPAL80-4K</td>
<td>4000k</td>
<td>&gt; 80</td>
<td>80</td>
<td>10,033</td>
<td>10,277</td>
<td>0.67</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
<td>69,000</td>
</tr>
<tr>
<td>LEDMPAL80-5K</td>
<td>5000k</td>
<td>&gt; 80</td>
<td>80</td>
<td>10,342</td>
<td>10,277</td>
<td>0.67</td>
<td>&gt; 90%</td>
<td>&lt; 20%</td>
<td>69,000</td>
</tr>
</tbody>
</table>

1. Color rendering index.
2. All 50-60Hz.
3. Total harmonic distortion.
4. L<sub>70</sub> refers to the number of hours at which lumen output declines to 70% of the initial level. L<sub>70</sub> hours are IES TM-21-11 calculated hours.

#### PHOTOMETRIC DATA

**LEDMPAL80-5K (10,542 Lumens, Type III [T3] Distribution)**

**LEDMPAL80-5K (10,342 Lumens, Type V Distribution)**

**Notes:**
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

**BUG Rating:** B3-U2-G2

**Zone** | **Lumens** | **%**
------- | ---------- | ----
FL - Front - Low (0-30) | 1,303 | 12%
FM - Front - Medium (30-60) | 3,686 | 35%
FH - Front - High (60-80) | 1,585 | 15%
FVH - Front - Very High (80-90) | 81 | 1%
Total Forward Light | 6,655 | 63%
BL - Back - Low (0-30) | 1,255 | 12%
BM - Back - Medium (30-60) | 2,125 | 20%
BH - Back - High (60-80) | 464 | 4%
BVH - Back - Very High (80-90) | 22 | 0%
Total Back Light | 3,866 | 37%
UL - Up Light - Low (90-100) | 1 | 0%
UH - Up Light - High (100-180) | 21 | 0%
Total Up Light | 22 | 0%
Total Lumens | 10,542 | 100%

**BUG Rating:** B3-U2-G2

**Zone** | **Lumens** | **%**
------- | ---------- | ----
FL - Front - Low (0-30) | 1,269 | 12%
FM - Front - Medium (30-60) | 2,860 | 28%
FH - Front - High (60-80) | 947 | 9%
FVH - Front - Very High (80-90) | 117 | 1%
Total Forward Light | 5,193 | 50%
BL - Back - Low (0-30) | 1,273 | 12%
BM - Back - Medium (30-60) | 2,810 | 27%
BH - Back - High (60-80) | 931 | 9%
BVH - Back - Very High (80-90) | 112 | 1%
Total Back Light | 5,126 | 50%
UL - Up Light - Low (90-100) | 1 | 0%
UH - Up Light - High (100-180) | 22 | 0%
Total Up Light | 23 | 0%
Total Lumens | 10,342 | 100%
LEDMPAL80 80 Watt Multi-Purpose LED Area Light

NEMA Floodlight Type Data

Field Angles:
- Horizontal 171°
- Vertical 162°

NEMA Type:
- Horizontal 7H
- Vertical 7V

maximum Candela = 3,451

Shields

Wire Guards
**LEDMPAL220 220 Watt Multi-Purpose LED Area Light**

| Project: |  |
| Type: |  |
| Catalog #: |  |

**STANDARD**

The LEDMPAL series is a group of architectural LED area luminaires designed to illuminate parking areas, pathways, building facades, loading docks, and a variety of other general site lighting applications. Multiple mounting options make the LEDMPAL a versatile luminaire for flood lighting, pole-, ground- and wall-mounted area lighting, and other outdoor lighting requirements.

**FEATURES**

- 120-277V models available in 3000k (warm white), 4000K (neutral white) and 5000K (cool white). 277-480V models available in 4000K and 5000K.
- Long-life LEDs provide a minimum of 58,000 hours of operation with at least 70% initial lumen output (L70).°
- Standard optic provides an IES roadway type V distribution, or a 7V (vertical) x 7H (horizontal) NEMA floodlight distribution.
- Type III models (120-277V) deliver 24,235 lumens and 110 lumens per watt (LPW) at 3000K; and 27,536 lumens and 125 LPW at both 4000K and 5000K.°
- Type III models (277-480V) deliver 26,108 lumens and 119 LPW 4000K; and 25,380 lumens and 115 LPW at 5000K.°
- Type V models (120-277V) deliver 21,495 lumens and 99 LPW at 3000K; 26,219 lumens and 119 LPW at 4000K; and 26,731 lumens and 122 LPW at 5000K.
- Type V models (277-480V) deliver 27,582 lumens and 125 LPW at 4000K; and 27,943 lumens and 127 LPW at 5000K.°
- Universal 120-277 or 277-480 AC voltage (50-60Hz) is standard.
- 0-10vdc dimming capability is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Optional glare shields (full and half) and wire guards are available.
- Die cast aluminum housing with durable, dark bronze powder coat finish, and a heat-resistant polycarbonate lens.
- Wireway enclosure is sealed with a water-tight, silicon rubber gasket.
- Effective projected areas (EPA’s) are 0.37 square feet (sf, front); 0.51 sf (side) and 1.74 sf (front).
- Threaded receptacle (½” NPS) for photocell. Optional arms and slip-fitters provide additional photocell mounting options.
- Easy installation in new construction or retrofit applications.

° Contact factory for other color temperatures and lumen packages.
° L70 hours are IES TM-21-11 calculated hours.

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>Model</th>
<th>Mounting Type</th>
<th>Luminaire Watts</th>
<th>Input Voltage</th>
<th>Color Temperature</th>
<th>Distribution Type ²</th>
<th>Luminaire Lumens</th>
<th>Lumens / Watt</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDMPAL220</td>
<td>T = Trunnion ¹</td>
<td>220</td>
<td>120-277</td>
<td>3K = 3000k</td>
<td>T3 = Type III</td>
<td>24,235</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>Y = Yoke</td>
<td></td>
<td>120-277</td>
<td>4K = 4000k</td>
<td>T3 = Type III</td>
<td>27,536</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>120-277</td>
<td>5K = 5000k</td>
<td>T3 = Type III</td>
<td>27,943</td>
<td>127</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>120-277</td>
<td>3K = 3000k</td>
<td>T3 = Type V</td>
<td>21,495</td>
<td>98</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>120-277</td>
<td>4K = 4000k</td>
<td>T3 = Type V</td>
<td>26,219</td>
<td>119</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>277-480</td>
<td>5K = 5000k</td>
<td>T3 = Type V</td>
<td>26,731</td>
<td>122</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>277-480</td>
<td>4K = 4000k</td>
<td>T3 = Type V</td>
<td>26,108</td>
<td>119</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>277-480</td>
<td>5K = 5000k</td>
<td>T3 = Type V</td>
<td>25,380</td>
<td>115</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>277-480</td>
<td>4K = 4000k</td>
<td>T3 = Type V</td>
<td>27,582</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>277-480</td>
<td>5K = 5000k</td>
<td>T3 = Type V</td>
<td>27,943</td>
<td>127</td>
</tr>
</tbody>
</table>

¹ Note: For Slip-Fitter or Steel Arm mounting, order a luminaire with the standard Trunnion mount installed (LEDMPAL220-T), and either the Slip-Fitter (LEDMPAL-SF-80/300) or Steel Arm (LEDMPAL-A-80/300). The Slip-Fitter and Steel Arm mounts are shipped in separate cartons than the luminaire, and are field-installed after removing the standard Trunnion mount.

² Note: Type V distribution is standard, and requires no order suffix (see example above). For NEMA flood 7H x 7V distributions, order the Type V option.

**WARRANTY & LISTINGS**

- cULus listed for wet locations (-30°C to 40°C / -22°F to 104°F).
- IP65 rated.
- DLC standard approved.
- Complies with FCC Part 15, Class B.
- Complies with EN61000-4-5, surge immunity (2kV).
- 5-year warranty on all electronics and housing.

**MOUNTING OPTIONS**

- Trunnion mount is standard.
- Slip-fitter mount provides attachment to poles (2 ¾” O.D. tenon).
- Steel arm mount provides secure attachment to flat surfaces.
- Yoke mount models are available by special order.

**DIMENSIONS**

- Weight: 17.3 lb.

**Examples:**
- (Slip-Fitter, Type III): LEDMPAL220-T-4K-T3 + LEDMPAL-SF-80/300
- (Yoke, Type V): LEDMPAL220-V-4K (no options available)
- (Arm, NEMA 7H x 7V): LEDMPAL220-T-4K + LEDMPAL-A-80/300
**LEDMPAL220 220 Watt Multi-Purpose LED Area Light**

### ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>Color Temperature</th>
<th>CRI ¹</th>
<th>Luminaire Lumens</th>
<th>Luminaire Watts</th>
<th>Lumens Per Watt</th>
<th>Input Voltage²</th>
<th>Input Current (A) ²</th>
<th>Power Factor</th>
<th>THD ³</th>
<th>L70 Hours ⁴</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEDMPAL220-3K-T3</td>
<td>3000k</td>
<td>&gt;80</td>
<td>24,235</td>
<td>220</td>
<td>110</td>
<td>120–277</td>
<td>0.92, 0.79</td>
<td>&gt;90%</td>
<td>&lt;20%</td>
<td>69,000</td>
</tr>
<tr>
<td>LEDMPAL220-4K-T3</td>
<td>4000k</td>
<td>&gt;80</td>
<td>27,536</td>
<td>220</td>
<td>125</td>
<td>120–277</td>
<td>0.92, 0.79</td>
<td>&gt;90%</td>
<td>&lt;20%</td>
<td>69,000</td>
</tr>
<tr>
<td>LEDMPAL220-5K-T3</td>
<td>5000k</td>
<td>&gt;80</td>
<td>27,536</td>
<td>220</td>
<td>125</td>
<td>120–277</td>
<td>0.92, 0.79</td>
<td>&gt;90%</td>
<td>&lt;20%</td>
<td>69,000</td>
</tr>
<tr>
<td>LEDMPAL220-3K</td>
<td>3000k</td>
<td>&gt;80</td>
<td>21,495</td>
<td>220</td>
<td>98</td>
<td>120–277</td>
<td>0.92, 0.79</td>
<td>&gt;90%</td>
<td>&lt;20%</td>
<td>69,000</td>
</tr>
<tr>
<td>LEDMPAL220-4K</td>
<td>4000k</td>
<td>&gt;80</td>
<td>26,219</td>
<td>220</td>
<td>119</td>
<td>120–277</td>
<td>0.92, 0.79</td>
<td>&gt;90%</td>
<td>&lt;20%</td>
<td>69,000</td>
</tr>
<tr>
<td>LEDMPAL220-5K</td>
<td>5000k</td>
<td>&gt;80</td>
<td>26,731</td>
<td>220</td>
<td>122</td>
<td>120–277</td>
<td>0.92, 0.79</td>
<td>&gt;90%</td>
<td>&lt;20%</td>
<td>69,000</td>
</tr>
</tbody>
</table>

¹ Color rendering index.
² All 50-60Hz.
³ Total harmonic distortion.
⁴ L70 hours are IES TM-21-11 calculated hours.

### PHOTOMETRIC DATA

**LEDMPAL220-5K (27,536 Lumens, Type III [T3] Distribution)**

- **Notes:**
  - Isofootcandle plots depict initial footcandles at grade.
  - Gridlines represent units of mounting height of 25 feet.

**LEDMPAL220-5K (26,731 Lumens, Type V Distribution)**

**BUG Rating: B4-U3-G2**

<table>
<thead>
<tr>
<th>Zone</th>
<th>Lumens</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL - Front - Low (0-30)</td>
<td>3,351</td>
<td>12%</td>
</tr>
<tr>
<td>FM - Front - Medium (30-60)</td>
<td>9,571</td>
<td>35%</td>
</tr>
<tr>
<td>FH - Front - High (60-80)</td>
<td>4,072</td>
<td>15%</td>
</tr>
<tr>
<td>FVH - Front - Very High (80-90)</td>
<td>218</td>
<td>1%</td>
</tr>
<tr>
<td>Total Forward Light</td>
<td>17,212</td>
<td>63%</td>
</tr>
<tr>
<td>BL - Back - Low (0-30)</td>
<td>3,186</td>
<td>12%</td>
</tr>
<tr>
<td>BM - Back - Medium (30-60)</td>
<td>5,743</td>
<td>21%</td>
</tr>
<tr>
<td>BH - Back - High (60-80)</td>
<td>1,263</td>
<td>5%</td>
</tr>
<tr>
<td>BVH - Back - Very High (80-90)</td>
<td>63</td>
<td>0%</td>
</tr>
<tr>
<td>Total Back Light</td>
<td>10,256</td>
<td>37%</td>
</tr>
<tr>
<td>UL - Up Light - Low (90-100)</td>
<td>4</td>
<td>0%</td>
</tr>
<tr>
<td>UH - Up Light - High (100-180)</td>
<td>65</td>
<td>0%</td>
</tr>
<tr>
<td>Total Up Light</td>
<td>68</td>
<td>0%</td>
</tr>
<tr>
<td>Total Lumens</td>
<td>27,536</td>
<td>100%</td>
</tr>
</tbody>
</table>

**BUG Rating: B4-U3-G3**

<table>
<thead>
<tr>
<th>Zone</th>
<th>Lumens</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL - Front - Low (0-30)</td>
<td>3,443</td>
<td>13%</td>
</tr>
<tr>
<td>FM - Front - Medium (30-60)</td>
<td>7,129</td>
<td>27%</td>
</tr>
<tr>
<td>FH - Front - High (60-80)</td>
<td>2,667</td>
<td>10%</td>
</tr>
<tr>
<td>FVH - Front - Very High (80-90)</td>
<td>284</td>
<td>1%</td>
</tr>
<tr>
<td>Total Forward Light</td>
<td>13,523</td>
<td>51%</td>
</tr>
<tr>
<td>BL - Back - Low (0-30)</td>
<td>3,360</td>
<td>13%</td>
</tr>
<tr>
<td>BM - Back - Medium (30-60)</td>
<td>7,019</td>
<td>26%</td>
</tr>
<tr>
<td>BH - Back - High (60-80)</td>
<td>2,484</td>
<td>9%</td>
</tr>
<tr>
<td>BVH - Back - Very High (80-90)</td>
<td>271</td>
<td>1%</td>
</tr>
<tr>
<td>Total Back Light</td>
<td>13,135</td>
<td>49%</td>
</tr>
<tr>
<td>UL - Up Light - Low (90-100)</td>
<td>5</td>
<td>0%</td>
</tr>
<tr>
<td>UH - Up Light - High (100-180)</td>
<td>69</td>
<td>0%</td>
</tr>
<tr>
<td>Total Up Light</td>
<td>73</td>
<td>0%</td>
</tr>
<tr>
<td>Total Lumens</td>
<td>26,731</td>
<td>100%</td>
</tr>
</tbody>
</table>
LEDMPAL220 220 Watt Multi-Purpose LED Area Light

Maximum Candela = 9,388

NEMA Floodlight Type Data

Field Angles:
- Horizontal 159°
- Vertical 163°

NEMA Type:
- Horizontal 7H
- Vertical 7V

Luminaire Orientation:

Shields

- Full
- Half

Wire Guards