

LEDMPALPRO80-140 80-140 Watt, Premium Multi-Purpose LED Area Luminaire



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

STANDARD



The LEDMPALPRO series is a group of premium 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 LEDMPALPRO a versatile luminaire for flood lighting, pole-, ground- and wall-mounted area lighting, and other outdoor lighting requirements.

FEATURES

- Available in 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide 372,000 hours of operation with at least 70% of initial lumen output (L_{70}).**
- Available models provide from 9,816 to 18,408 lumens, and from 117 to 131 lumens per watt (LPW).*
- IES roadway photometric distributions include types II-V.
- NEMA floodlight distributions include very narrow (3H x 3V), medium narrow (4H x 4V), medium wide (5H x 5V) & very wide (7H x 7V).
- Universal 120-277 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 & half) & wire guards are available.
- Optional NEMA photocell installation kit provides watertight photocell attachment to driver enclosure clover.
- Die cast aluminum housing with durable, dark bronze powder coat finish—at least 2 mils thick on all surfaces—and a heat-resistant polycarbonate lens.
- Driver enclosure is sealed with a water-tight, silicon rubber gasket.
- Effective projected areas (EPA's) are:
 - Front = 0.24 square feet
 - Side = 0.29 square feet
 - Face = 1.10 square feet
- Easy installation in new construction or retrofit applications.

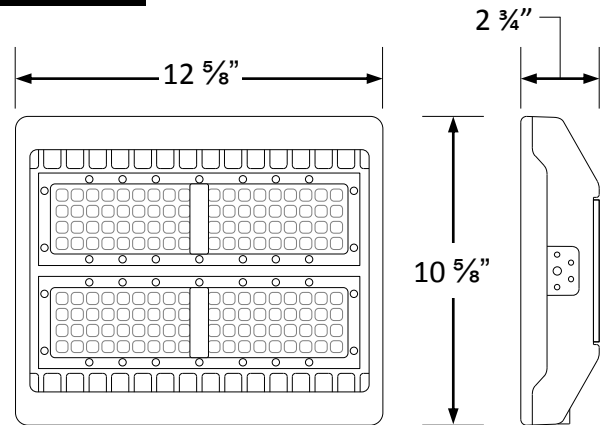
* Contact factory for other color temperatures and lumen packages.
 ** L_{70} hours are IES TM-21-11 calculated hours.



WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from -20°C to 45°C (-4°F to 113°F).
- IP66 rated for ingress protection.
- DLC premium approved.
- Flicker-free per IEEE 1789-2015 (no observable adverse effects of flicker at 100% light output level).
- Rated for 3G vibration.
- Lens is IK 9 rated for protection from external impacts.
- Salt fog tested for 1,000 hours (ASTM B117). After salt fog testing, paint rated at 9 per ASTM D1654-05 scratch test.
- Complies with FCC Part 15, class B.
- Complies with EN61000-4-5, surge immunity protection (6kV).
- 5-year warranty of all electronics and housing.

DIMENSIONS



Weight: 8.2 lbs. (80W), 10.8 lbs. (100W) & 11 lbs. (140W)

ORDERING INFORMATION

Example: LEDMPALPRO80-4K + LEDMPALPRO-YK-80/140 + LEDMPALPRO80/100/140-FGS + LEDMPALPRO80/100/140-WG
 Premium-performance multi-purpose area luminaire, 80 watt, 4000k, yoke mounting bracket, full glare shield & wire guard

| Model | Color Temperature | Mounting Brackets (Order Separately) | Shields, Wire Guards & NEMA Photocell Kit (Order Separately) |
|---------------|-------------------|--|--|
| LEDMPALPRO80 | 4K = 4000k | LEDMPALPRO-YK-80/140 = Yoke Bracket, 80-140W | LEDMPALPRO80/100/140-FGS = Full Glare Shield, 80 – 140W |
| LEDMPALPRO100 | 5K = 5000k | LEDMPALPRO-TR-80/280 = Trunnion Bracket, 80-280W | LEDMPALPRO80/100/140-HGS = Half Glare Shield, 80 – 140W |
| LEDMPALPRO140 | | LEDMPALPRO-ARM-80/280 = Arm Bracket, 80-280W | LEDMPALPRO80/100/140-WG = Wire Guard, 80 – 140W |
| | | LEDMPALPRO-SF-80/280 = Slip-Fitter Bracket, 80-280W | LEDMPALPRO-PCKIT-80/280 = NEMA Photocell Installation Kit, 80 – 280W |
| | | LEDMPALPRO-WMB-80/280 = Wall bracket, 80-280W | |
| | | LEDMPALPRO-WMB90-80/280 = Wall bracket, 90°, 80-280W | |
| | | LEDMPALPRO-D180BH-80/280 = Double Bullhorn, 180°, 80-280W | |
| | | LEDMPALPRO-T180BH-80/280 = Triple Bullhorn, 180°, 80-280W | |
| | | LEDMPALPRO-Q180BH-80/280 = Quadruple Bullhorn, 180°, 80-280W | |

LEDMPALPRO80-140 80-140 Watt, Premium Multi-Purpose LED Area Luminaire



ELECTRICAL DATA

| Model | Color Temp. | CRI ¹ | Luminaire Lumens | Luminaire Watts | Lumens Per Watt | Input Voltage ² | Input Current (A) | | | Power Factor | THD ³ | L ₇₀ Hours ⁴ |
|--|-------------|------------------|------------------|-----------------|-----------------|----------------------------|-------------------|------|------|--------------|------------------|------------------------------------|
| | | | | | | | 120V | 240V | 277V | | | |
| IES Roadway Distributions⁵ | | | | | | | | | | | | |
| LEDMPALPRO80-4K-T2 | 4000k | > 80 | 10,445 | 81 | 129.0 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-5K-T2 | 5000k | > 80 | 10,584 | 81 | 130.7 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-4K-T3 | 4000k | > 80 | 10,439 | 81 | 128.9 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-5K-T3 | 5000k | > 80 | 10,613 | 81 | 131.0 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-4K-T4 | 4000k | > 80 | 10,377 | 81 | 128.1 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-5K-T4 | 5000k | > 80 | 10,491 | 81 | 129.5 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-4K-T5 | 4000k | > 80 | 9,816 | 81 | 121.2 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-5K-T5 | 5000k | > 80 | 10,008 | 81 | 123.6 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| NEMA Floodlight Distributions⁶ | | | | | | | | | | | | |
| LEDMPALPRO80-4K-VN | 4000k | > 80 | 10,324 | 81 | 127.5 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-5K-VN | 5000k | > 80 | 10,417 | 81 | 128.6 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-4K-MN | 4000k | > 80 | 10,357 | 81 | 127.9 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-5K-MN | 5000k | > 80 | 10,435 | 81 | 128.8 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-4K-MW | 4000k | > 80 | 10,217 | 81 | 126.1 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-5K-MW | 5000k | > 80 | 10,317 | 81 | 127.4 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-4K-VW | 4000k | > 80 | 9,818 | 81 | 121.2 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO80-5K-VW | 5000k | > 80 | 10,009 | 81 | 123.6 | 120-277 | 0.68 | 0.34 | 0.29 | > 90% | < 20% | 372,000 |
| LEDMPALPRO100-4K-VN | 4000k | > 80 | 13,112 | 101 | 129.8 | 120-277 | 0.84 | 0.42 | 0.36 | > 90% | < 20% | 372,000 |
| LEDMPALPRO100-5K-VN | 5000k | > 80 | 13,240 | 101 | 131.1 | 120-277 | 0.84 | 0.42 | 0.36 | > 90% | < 20% | 372,000 |
| LEDMPALPRO100-4K-MN | 4000k | > 80 | 13,102 | 101 | 129.7 | 120-277 | 0.84 | 0.42 | 0.36 | > 90% | < 20% | 372,000 |
| LEDMPALPRO100-5K-MN | 5000k | > 80 | 13,243 | 101 | 131.1 | 120-277 | 0.84 | 0.42 | 0.36 | > 90% | < 20% | 372,000 |
| LEDMPALPRO100-4K-MW | 4000k | > 80 | 13,081 | 101 | 129.5 | 120-277 | 0.84 | 0.42 | 0.36 | > 90% | < 20% | 372,000 |
| LEDMPALPRO100-5K-MW | 5000k | > 80 | 13,202 | 101 | 130.7 | 120-277 | 0.84 | 0.42 | 0.36 | > 90% | < 20% | 372,000 |
| LEDMPALPRO100-4K-VW | 4000k | > 80 | 11,834 | 101 | 117.2 | 120-277 | 0.84 | 0.42 | 0.36 | > 90% | < 20% | 372,000 |
| LEDMPALPRO100-5K-VW | 5000k | > 80 | 12,084 | 101 | 119.6 | 120-277 | 0.84 | 0.42 | 0.36 | > 90% | < 20% | 372,000 |
| LEDMPALPRO140-4K-VN | 4000k | > 80 | 18,230 | 141 | 129.3 | 120-277 | 1.18 | 0.59 | 0.51 | > 90% | < 20% | 372,000 |
| LEDMPALPRO140-5K-VN | 5000k | > 80 | 18,394 | 141 | 130.5 | 120-277 | 1.18 | 0.59 | 0.51 | > 90% | < 20% | 372,000 |
| LEDMPALPRO140-4K-MN | 4000k | > 80 | 18,249 | 141 | 129.4 | 120-277 | 1.18 | 0.59 | 0.51 | > 90% | < 20% | 372,000 |
| LEDMPALPRO140-5K-MN | 5000k | > 80 | 18,408 | 141 | 130.6 | 120-277 | 1.18 | 0.59 | 0.51 | > 90% | < 20% | 372,000 |
| LEDMPALPRO140-4K-MW | 4000k | > 80 | 18,179 | 141 | 128.9 | 120-277 | 1.18 | 0.59 | 0.51 | > 90% | < 20% | 372,000 |
| LEDMPALPRO140-5K-MW | 5000k | > 80 | 18,360 | 141 | 130.2 | 120-277 | 1.18 | 0.59 | 0.51 | > 90% | < 20% | 372,000 |
| LEDMPALPRO140-4K-VW | 4000k | > 80 | 16,438 | 141 | 116.6 | 120-277 | 1.18 | 0.59 | 0.51 | > 90% | < 20% | 372,000 |
| LEDMPALPRO140-5K-VW | 5000k | > 80 | 16,687 | 141 | 118.3 | 120-277 | 1.18 | 0.59 | 0.51 | > 90% | < 20% | 372,000 |

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.

⁵ T2 = type II, T3 = type III, T4 = type IV, and T5 = type V.

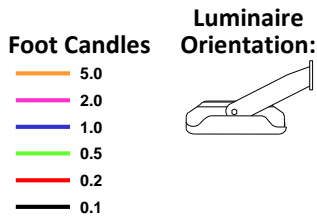
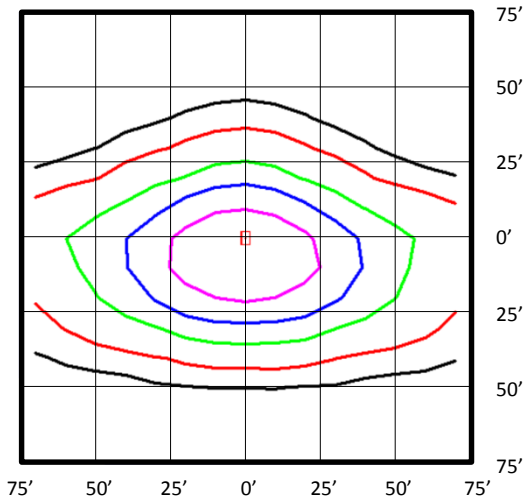
⁶ VN = very narrow, MN = medium narrow, MW = medium wide, and VW = very wide.

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PHOTOMETRIC DATA – IES Roadway Distributions

LEDMPALPRO80-4K-T2 (10,445 Lumens, Type II Distribution)

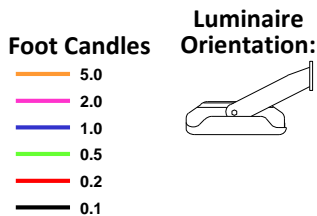
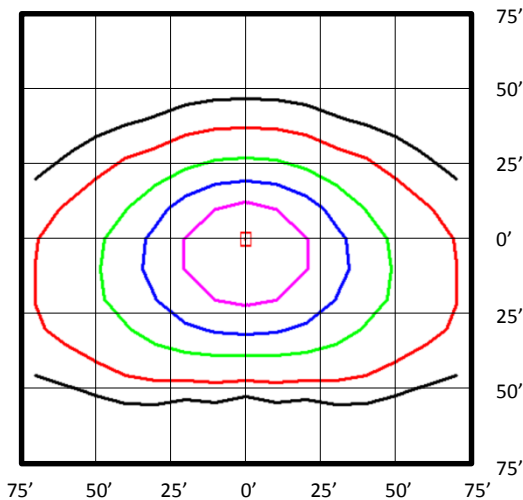


- Notes:**
- Isofootcandle plots depict initial footcandles at grade.
 - Gridlines represent units of mounting height of 25 feet.

BUG Rating: B3-U0-G3

| Zone | Lumens | % |
|---------------------------------|---------------|-------------|
| FL - Front - Low (0-30) | 1,257 | 12% |
| FM - Front - Medium (30-60) | 3,523 | 34% |
| FH - Front - High (60-80) | 1,863 | 18% |
| FVH - Front - Very High (80-90) | 136 | 1% |
| Total Forward Light | 6,779 | 65% |
| BL - Back - Low (0-30) | 834 | 8% |
| BM - Back - Medium (30-60) | 1,687 | 16% |
| BH - Back - High (60-80) | 1,065 | 10% |
| BVH - Back - Very High (80-90) | 90 | 1% |
| Total Back Light | 3,676 | 35% |
| UL - Up Light - Low (90-100) | 0 | 0% |
| UH - Up Light - High (100-180) | 0 | 0% |
| Total Up Light | 0 | 0% |
| Total Lumens | 10,455 | 100% |

LEDMPALPRO80-4K-T3 (10,439 Lumens, Type III Distribution)

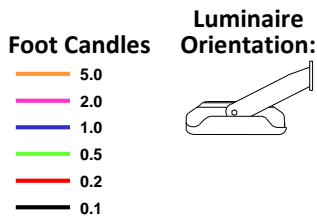
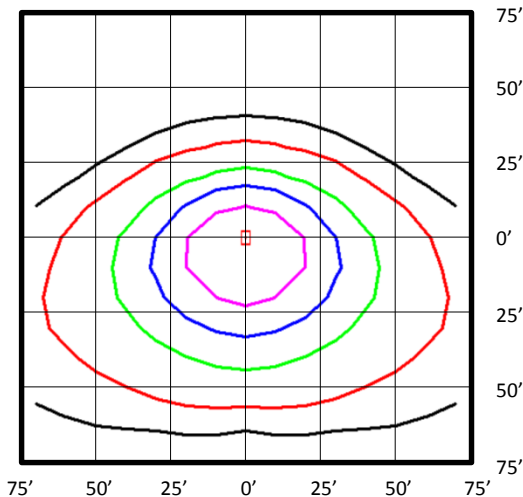


- Notes:**
- Isofootcandle plots depict initial footcandles at grade.
 - Gridlines represent units of mounting height of 25 feet.

BUG Rating: B2-U0-G2

| Zone | Lumens | % |
|---------------------------------|---------------|-------------|
| FL - Front - Low (0-30) | 1,196 | 11% |
| FM - Front - Medium (30-60) | 3,384 | 32% |
| FH - Front - High (60-80) | 1,952 | 19% |
| FVH - Front - Very High (80-90) | 136 | 1% |
| Total Forward Light | 6,668 | 64% |
| BL - Back - Low (0-30) | 913 | 9% |
| BM - Back - Medium (30-60) | 1,801 | 17% |
| BH - Back - High (60-80) | 990 | 9% |
| BVH - Back - Very High (80-90) | 67 | 1% |
| Total Back Light | 3,771 | 36% |
| UL - Up Light - Low (90-100) | 0 | 0% |
| UH - Up Light - High (100-180) | 0 | 0% |
| Total Up Light | 0 | 0% |
| Total Lumens | 10,439 | 100% |

LEDMPALPRO80-4K-T4 (10,377 Lumens, Type IV Distribution)



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

BUG Rating: B2-U0-G3

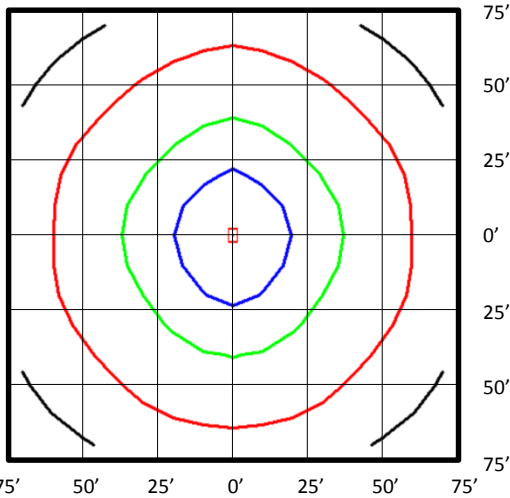
| Zone | Lumens | % |
|---------------------------------|---------------|-------------|
| FL - Front - Low (0-30) | 1,289 | 12% |
| FM - Front - Medium (30-60) | 3,309 | 32% |
| FH - Front - High (60-80) | 2,399 | 23% |
| FVH - Front - Very High (80-90) | 308 | 3% |
| Total Forward Light | 7,304 | 70% |
| BL - Back - Low (0-30) | 890 | 9% |
| BM - Back - Medium (30-60) | 1,398 | 13% |
| BH - Back - High (60-80) | 713 | 7% |
| BVH - Back - Very High (80-90) | 72 | 1% |
| Total Back Light | 3,073 | 30% |
| UL - Up Light - Low (90-100) | 0 | 0% |
| UH - Up Light - High (100-180) | 0 | 0% |
| Total Up Light | 0 | 0% |
| Total Lumens | 10,377 | 100% |

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PHOTOMETRIC DATA – IES Roadway Distributions (continued)

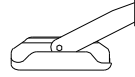
LEDMPALPRO80-4K-T5 (9,816 Lumens, Type V Distribution)



Foot Candles

- 5.0
- 2.0
- 1.0
- 0.5
- 0.2
- 0.1

Luminaire Orientation:



Notes:

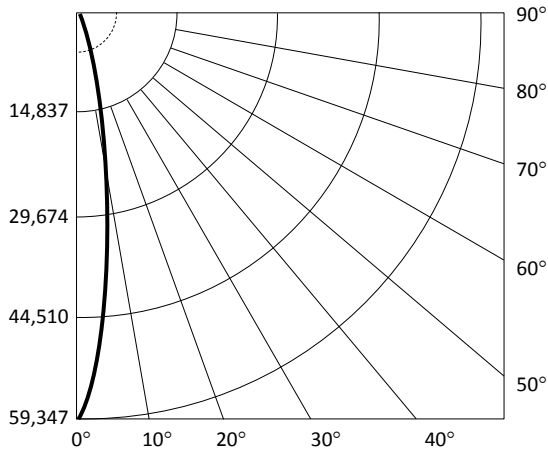
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

BUG Rating: B3-U0-G3

| Zone | Lumens | % |
|---------------------------------|--------------|-------------|
| FL - Front - Low (0-30) | 456 | 5% |
| FM - Front - Medium (30-60) | 1,929 | 20% |
| FH - Front - High (60-80) | 2,319 | 24% |
| FVH - Front - Very High (80-90) | 266 | 3% |
| Total Forward Light | 4,970 | 51% |
| BL - Back - Low (0-30) | 449 | 5% |
| BM - Back - Medium (30-60) | 1,852 | 19% |
| BH - Back - High (60-80) | 2,250 | 23% |
| BVH - Back - Very High (80-90) | 295 | 3% |
| Total Back Light | 4,846 | 49% |
| UL - Up Light - Low (90-100) | 0 | 0% |
| UH - Up Light - High (100-180) | 0 | 0% |
| Total Up Light | 0 | 0% |
| Total Lumens | 9,816 | 100% |

PHOTOMETRIC DATA – NEMA Floodlight Distributions

LEDMPALPRO80-4K-VN (10,324 Lumens, Very Narrow)



Maximum Candela = 59,347

- Horizontal
- - - - Vertical

NEMA Floodlight Data

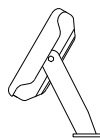
Field Angles:

- Horizontal 38°
- Vertical 39°

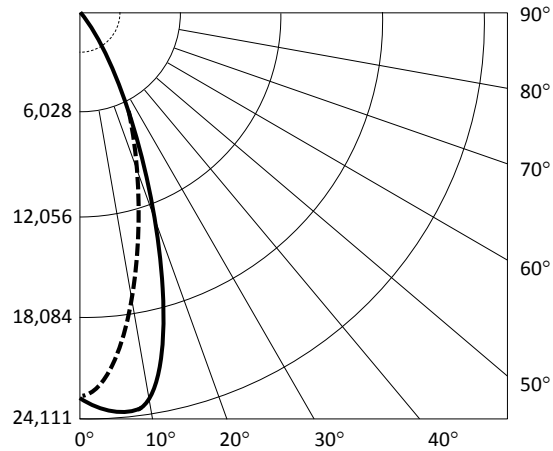
NEMA Type:

- Horizontal 3H
- Vertical 3V

Luminaire Orientation:



LEDMPALPRO80-4K-MN (10,357 Lumens, Medium Narrow)



Maximum Candela = 24,111

- Horizontal
- - - - Vertical

NEMA Floodlight Data

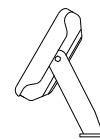
Field Angles:

- Horizontal 59°
- Vertical 60°

NEMA Type:

- Horizontal 4H
- Vertical 4V

Luminaire Orientation:

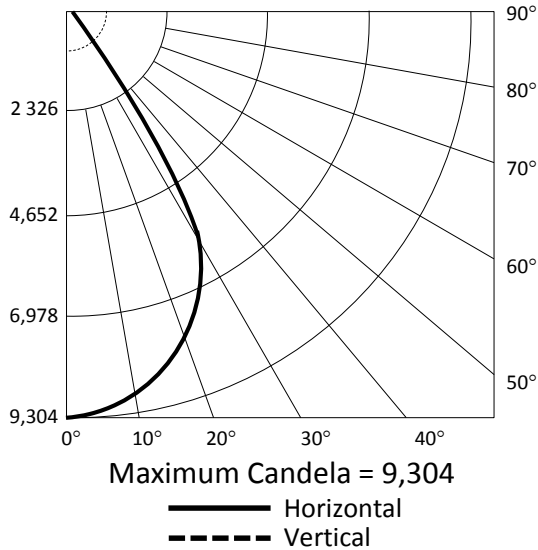


LEDMPALPRO80-140 80-140 Watt, Premium Multi-Purpose LED Area Luminaire



PHOTOMETRIC DATA – NEMA Floodlight Distributions (continued)

LEDMPALPRO80-4K-MW (10,217 Lumens, Medium Wide)



NEMA Floodlight Data

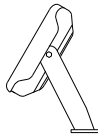
Field Angles:

- Horizontal 86°
- Vertical 86°

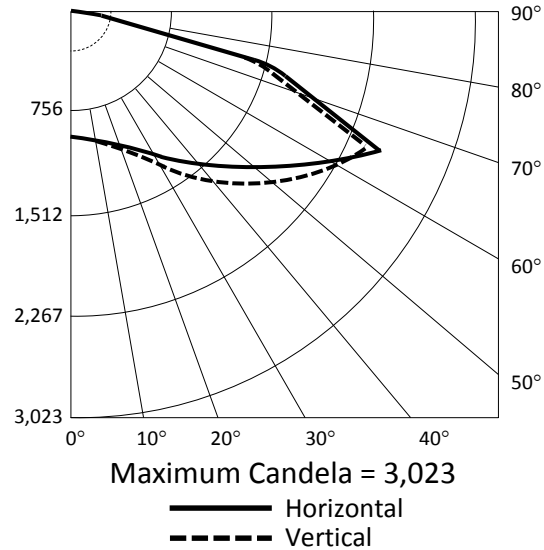
NEMA Type:

- Horizontal 5H
- Vertical 5V

Luminaire Orientation:



LEDMPALPRO80-4K-VW (9,818 Lumens, Very Wide)



NEMA Floodlight Data

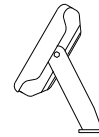
Field Angles:

- Horizontal 156°
- Vertical 172°

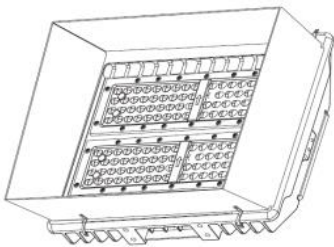
NEMA Type:

- Horizontal 7H
- Vertical 7V

Luminaire Orientation:

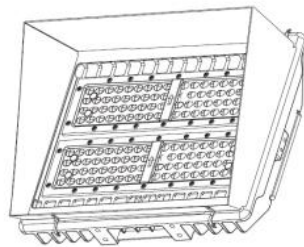


SHIELDS, WIRE GUARDS & NEMA PHOTOCELL INSTALLATION KIT



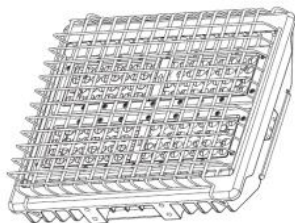
Full Shield

(LEDMPALPRO80/100/140-FGS)



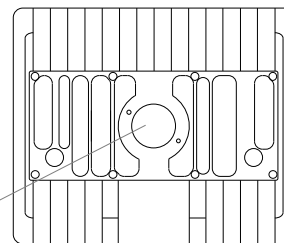
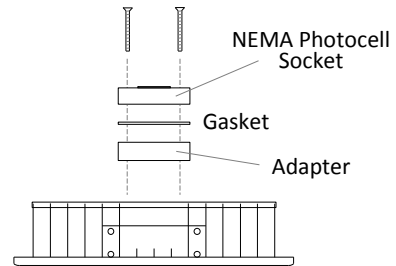
Half Shield

(LEDMPALPRO80/100/140-HGS)



Wire Guard

(LEDMPALPRO80/100/140-WG)



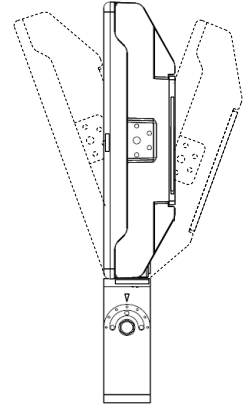
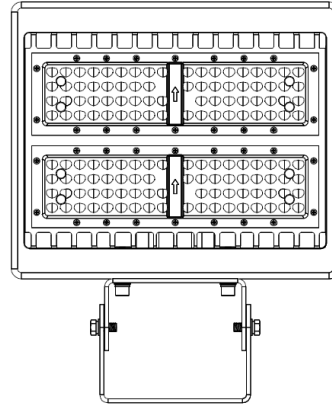
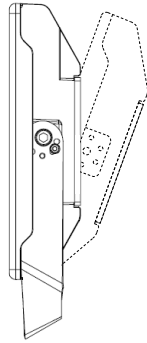
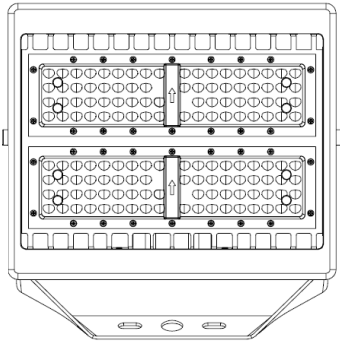
NEMA Photocell Installation Kit

(LEDMPALPRO-PCKIT-80/280)

LEDMPALPRO80-140 80-140 Watt, Premium Multi-Purpose LED Area Luminaire



MOUNTING ACCESSORIES

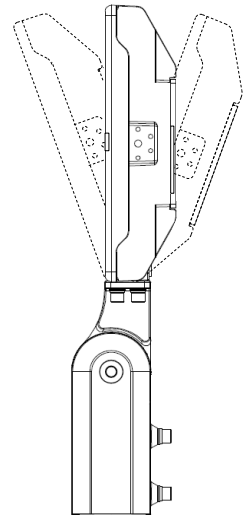
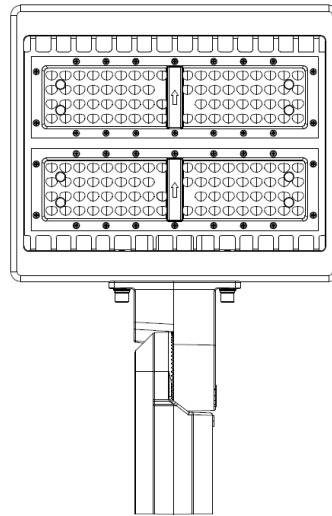
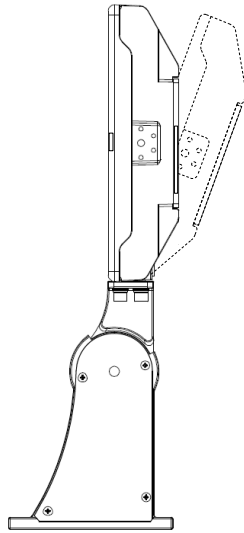
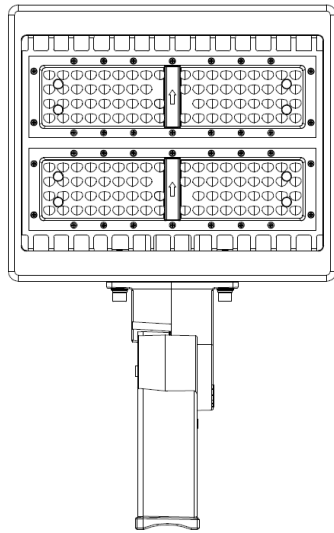


Yoke Mount

LEDMPALPRO-YK-80/140

Trunnion Mount

LEDMPALPRO-TR-80/280



Adjustable Arm Mount

LEDMPALPRO-ARM-80/280

Slip-Fitter Mount

LEDMPALPRO-SF-80/280

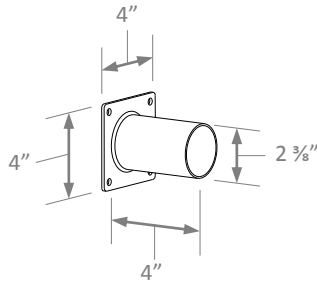
LEDMPALPRO80-140 80-140 Watt, Premium Multi-Purpose LED Area Luminaire



MOUNTING ACCESSORIES

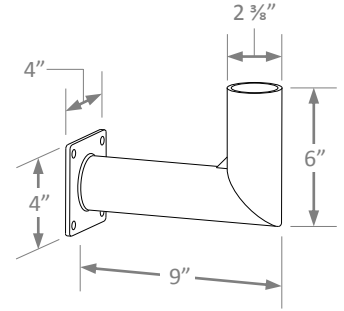
Wall Mount Bracket

LEDMPALPRO-WMB-80/280



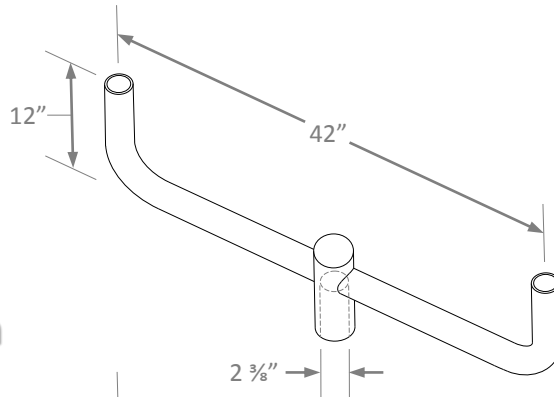
Wall Mount Bracket, 90°

LEDMPALPRO-WMB90-80/280



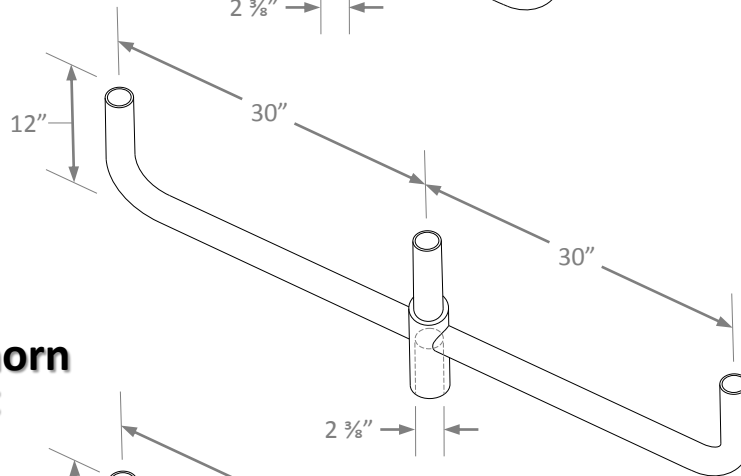
Double 180° Bullhorn Mounting Bracket

LEDMPALPRO-D180BH-80/280



Triple 180° Bullhorn Mounting Bracket

LEDMPALPRO-T180BH-80/280



Quadruple 180° Bullhorn Mounting Bracket

LEDMPALPRO-Q180BH-80/280

