

# LEDMPAL100 100 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 65,000 hours of operation with at least 70% of initial lumen output ( $L_{70}$ ).
- 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 11,423 lumens and 114 lumens per watt (LPW) at 3000k; 11,614 lumens and 116 LPW at 4000k; and 12,543 lumens and 125 LPW at 5000k.
- Type III models (277-480V) deliver 12,368 lumens and 124 LPW at both 4000k and 5000k.
- Type V models deliver (120-277V) 12,158 lumens and 122 LPW at 3000k; 12,105 lumens and 121 LPW at 4000k; and 12,353 lumens and 124 LPW at 5000k.
- Type V models (277-480V) deliver 12,354 lumens and 124 LPW at 4000k; and 12,507 lumens and 125 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 0.38 square feet (sf, front); 0.30 sf (side) and 1.04 sf (front).
- Threaded receptacle ( $\frac{1}{2}$ " 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.

\*\*  $L_{70}$  hours are IES TM-21-11 calculated hours.



## WARRANTY & LISTINGS

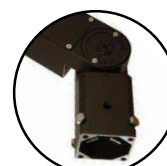
- cULus listed for wet locations (-30°C to 40°C / -22°F to 104°F).
- IP65 rated.
- DLC standard approved (except as noted below).
- Complies with FCC Part 15, Class B.
- Complies with EN61000-4-5, surge immunity (120-277V models protected to 4kV & 277-480V models protected to 2kV).
- 5-year warranty on all electronics and housing.

## MOUNTING OPTIONS

- Trunnion mount is standard.
- Slip-fitter mount provides attachment to poles (2  $\frac{3}{8}$ " O.D. tenon).
- Steel arm mount provides secure attachment to flat surfaces.
- Yoke mount models are available by special order.



Steel Arm Mount Option

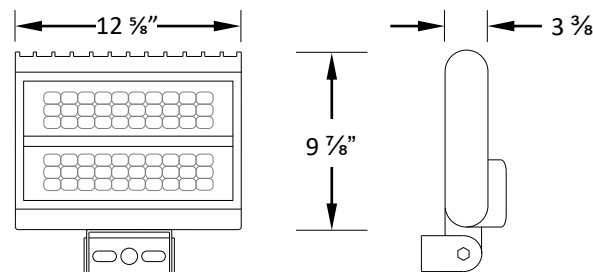


Slip-Fitter Mount Option



Yoke Mount Option

## DIMENSIONS



Weight: 9.6 lb.

## ORDERING INFORMATION

Examples: (Slip-Fitter, Type III): LEDMPAL100-T-4K-T3 + LEDMPAL-SF-80/300  
(Yoke, Type V): LEDMPAL100-Y-4K (no options available)  
(Arm, NEMA 7H x 7V) LEDMPAL100-T-4K + LEDMPAL-A-80/300

Model	Mounting Type	Luminaire Watts	Input Voltage	Color Temperature	Distribution Type <sup>2</sup>	Luminaire Lumens	Lumens / Watt	Options* (Order Separately)
LEDMPAL100	T = Trunnion <sup>1</sup> Y = Yoke	100	120-277	3K = 3000k	T3 = Type III	11,423	114	LEDMPAL-SF-80/300 = Slip-Fitter Mount
			120-277	4K = 4000k	T3 = Type III	11,614	116	LEDMPAL-A-80/300 = Steel Arm Mount
			120-277	5K = 5000k	T3 = Type III	12,543	125	MPAL80/100/150-FGS = Full Glare Shield
			120-277	3K = 3000k	Type V	12,158	122	MPAL80/100/150-HGS = Half Glare Shield
			120-277	4K = 4000k	Type V	12,105	121	MPAL80/100/150-WG = Wire Guard
			120-277	5K = 5000k	Type V	12,353	124	
			277-480	4K = 4000k	T3 = Type III	12,368	124	
			277-480	5K = 5000k	T3 = Type III	12,368	124	
			277-480	4K = 4000k	Type V	12,354	124	
			277-480	5K = 5000k	Type V	12,507	125	

<sup>1</sup> Note: For Slip-Fitter or Steel Arm mounting, order a luminaire with the standard Trunnion mount installed (LEDMPAL100-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.

<sup>2</sup> 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.

# LEDMPAL100 100 Watt Multi-Purpose LED Area Light

## ELECTRICAL DATA

Model	Color Temperature	CRI <sup>1</sup>	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Input Voltage <sup>2</sup>	Input Current (A)			Power Factor	THD <sup>3</sup>	L <sub>70</sub> Hours <sup>4</sup>
							120V	240V	277V			
LEDMPAL100-3K-T3	3000k	> 80	11,423	100	114	120-277	0.83	0.42	0.36	> 90%	< 20%	69,000
LEDMPAL100-4K-T3	4000k	> 80	11,614	100	116	120-277	0.83	0.42	0.36	> 90%	< 20%	69,000
LEDMPAL100-5K-T3	5000k	> 80	12,543	100	125	120-277	0.83	0.42	0.36	> 90%	< 20%	69,000
LEDMPAL100-3K	3000k	> 80	12,158	100	122	120-277	0.83	0.42	0.36	> 90%	< 20%	69,000
LEDMPAL100-4K	4000k	> 80	12,105	100	121	120-277	0.83	0.42	0.36	> 90%	< 20%	69,000
LEDMPAL100-5K	5000k	> 80	12,353	100	124	120-277	0.83	0.42	0.36	> 90%	< 20%	69,000

Model	Color Temperature	CRI <sup>1</sup>	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Input Voltage <sup>2</sup>	Input Current (A)			Power Factor	THD <sup>3</sup>	L <sub>70</sub> Hours <sup>4</sup>
							277V	347V	480V			
LEDMPAL100-T-4K-T3-480V	4000k	> 80	12,368	100	124	277-480	0.36	0.29	0.21	> 90%	< 20%	65,000
LEDMPAL100-T-5K-T3-480V	5000k	> 80	12,368	100	124	277-480	0.36	0.29	0.21	> 90%	< 20%	65,000
LEDMPAL100-T-4K-480V	4000k	> 80	12,354	100	124	277-480	0.36	0.29	0.21	> 90%	< 20%	68,000
LEDMPAL100-T-5K-480V	5000k	> 80	12,507	100	125	277-480	0.36	0.29	0.21	> 90%	< 20%	68,000

<sup>1</sup> Color rendering index.

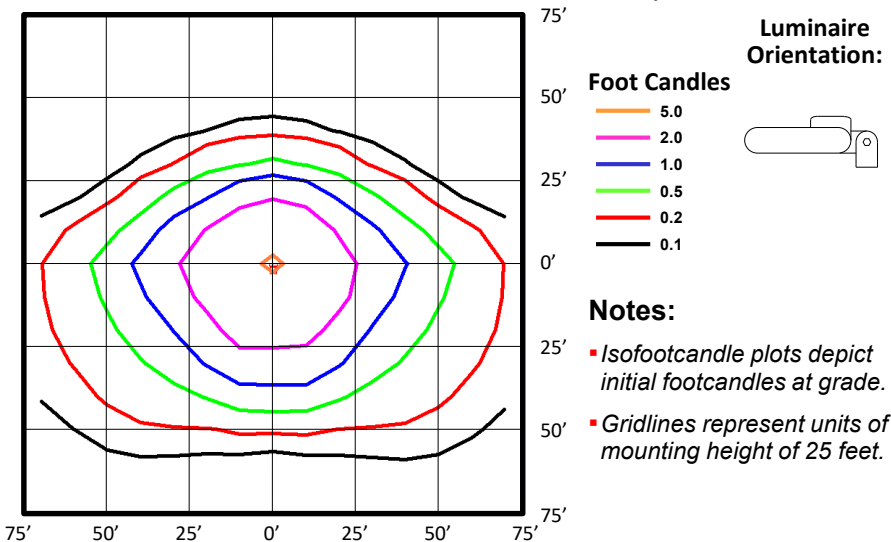
<sup>2</sup> All 50-60Hz.

<sup>3</sup> Total harmonic distortion.

<sup>4</sup> 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

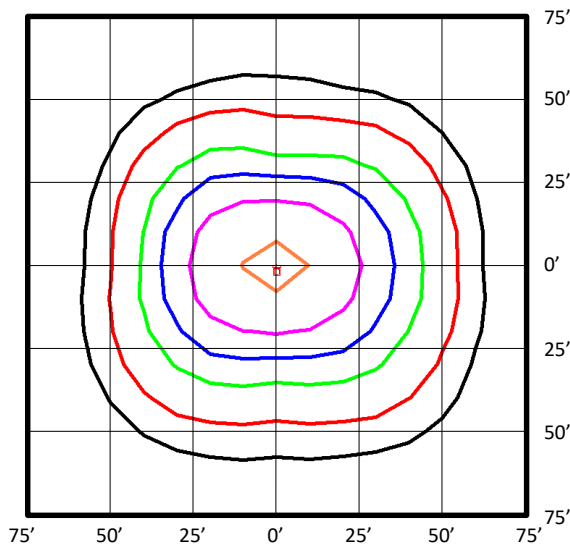
### LEDMPAL100-5K (12,543 Lumens, Type III [T3] Distribution)



### BUG Rating: B3-U2-G2

Zone	Lumens	%
FL - Front - Low (0-30)	1,430	11%
FM - Front - Medium (30-60)	4,156	33%
FH - Front - High (60-80)	2,064	16%
FVH - Front - Very High (80-90)	123	1%
Total Forward Light	7,772	62%
BL - Back - Low (0-30)	1,356	11%
BM - Back - Medium (30-60)	2,666	21%
BH - Back - High (60-80)	694	6%
BVH - Back - Very High (80-90)	28	0%
Total Back Light	4,744	38%
UL - Up Light - Low (90-100)	2	0%
UH - Up Light - High (100-180)	25	0%
Total Up Light	27	0%
Total Lumens	12,543	100%

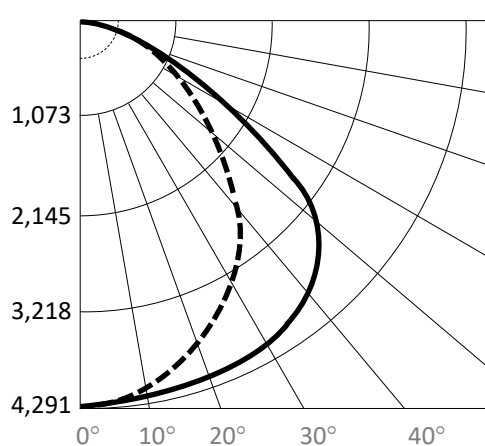
### LEDMPAL100-5K (12,353 Lumens, Type V Distribution)



### BUG Rating: B3-U2-G2

Zone	Lumens	%
FL - Front - Low (0-30)	1,625	13%
FM - Front - Medium (30-60)	3,439	28%
FH - Front - High (60-80)	1,162	9%
FVH - Front - Very High (80-90)	135	1%
Total Forward Light	6,362	52%
BL - Back - Low (0-30)	1,564	13%
BM - Back - Medium (30-60)	3,242	26%
BH - Back - High (60-80)	1,028	8%
BVH - Back - Very High (80-90)	127	1%
Total Back Light	5,962	48%
UL - Up Light - Low (90-100)	2	0%
UH - Up Light - High (100-180)	28	0%
Total Up Light	29	0%
Total Lumens	12,353	100%

# LEDMPAL100 100 Watt Multi-Purpose LED Area Light



Maximum Candela = 4,291

— Horizontal  
- - - Vertical

## NEMA Floodlight Type Data

### Field Angles:

■ Horizontal 168°  
■ Vertical 160°

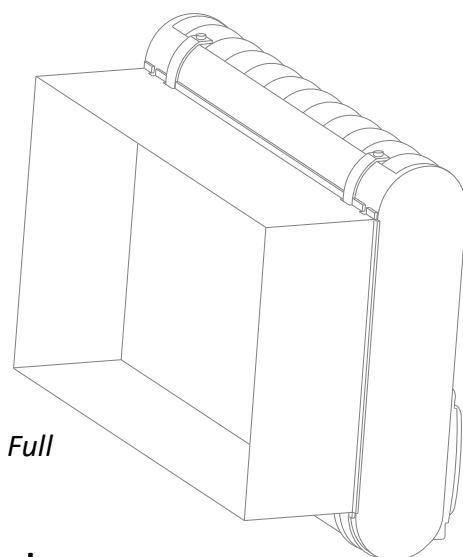
### NEMA Type:

■ Horizontal 7H  
■ Vertical 7V

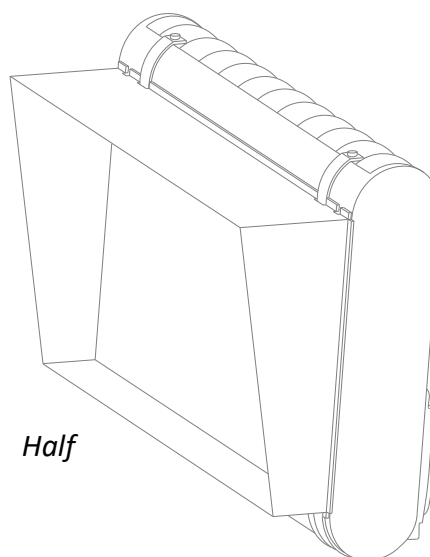
## Luminaire Orientation:



## Shields



Full



Half

## Wire Guards

