

100 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.

Prefix: LEDMPAL100



project: _____

fixture type: _____

catalog #: _____

quantity: _____



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

ORDERING GUIDE

LEDMPAL100				
MODEL	MOUNTING OPTIONS	COLOR TEMPERATURE	DISTRIBUTION TYPE	OPTIONS* (ORDER SEPARATELY)
LEDMPAL100 - 100 Watt Multi-Purpose LED Area Light	T - Trunnion Mount* Y - Yoke Mount	3K - 3000k 4K - 4000k 5K - 5000k	TV - Type V (Standard) T3 - Type III	LEDMPAL-SF-80/300 - Slip-Fitter Mount LEDMPAL-A-80/300 - Steel Arm Mount MPAL-80/100/150-FGS - Full Glare Shield MPAL-80/100/150-HGS - Half Glare Shield MPAL-80/100/150-WG - Wire Guard

* 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.
* Note: For NEMA flood 7H x 7V distributions, order the Type V option.

FEATURES

- 120-277V models available in 3000k (warm white), 4000K (neutralwhite) 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 (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 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); 0.30sf (side) and 1.04 sf (front).
- Threaded receptacle (1/2" NPS) for photocell. Optional arms and slip-fitters provide additional photocell mounting options.

- Easy installation in new construction or retrofit applications.

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

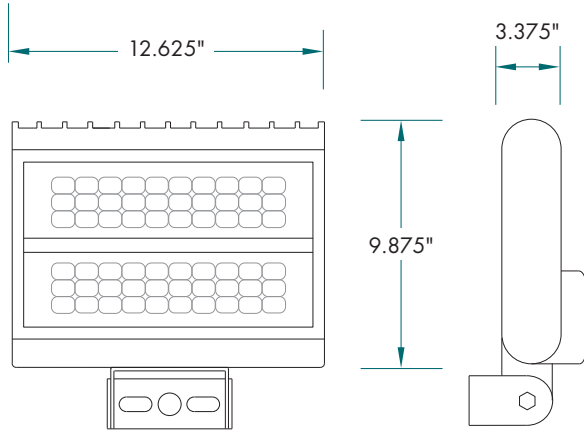
- Trunnion mount is standard.
- Slip-fitter mount provides attachment to poles (2 3/8" O.D. tenon).
- Steel arm mount provides secure attachment to flat surfaces.
- Yoke mount models are available by special order.

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

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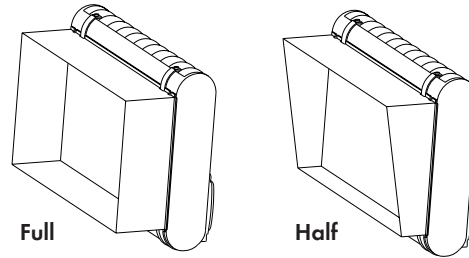
Prefix: LEDMPAL100

Dimensions

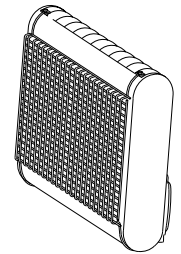


Weight: 9.6 lb

Shields



Wire Guards



Electrical Data

Model	Color Temp.	CRI ¹	Luminaire Lumens	Luminaire Watts	Lumens/Watt	Input Voltage ²	Input Current			Power Factor	THD ³	L ₇₀ Hours ⁴
							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 Temp.	CRI ¹	Luminaire Lumens	Luminaire Watts	Lumens/Watt	Input Voltage ²	Input Current			Power Factor	THD ³	L ₇₀ Hours ⁴
							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

¹ Color rendering index.

² All 50-60Hz.

³ Total harmonic distortion.

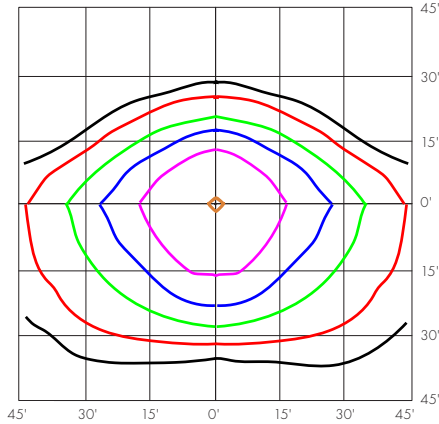
⁴ L₇₀ refers to the number of hours at which lumen output declines to 70% of the initial level. L₇₀ hours are IES TM-21-11 calculated hours.

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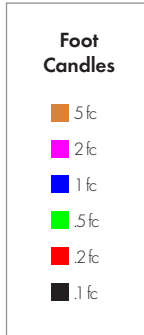
Photometric Data

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



BUG Rating: B3-U2-G2

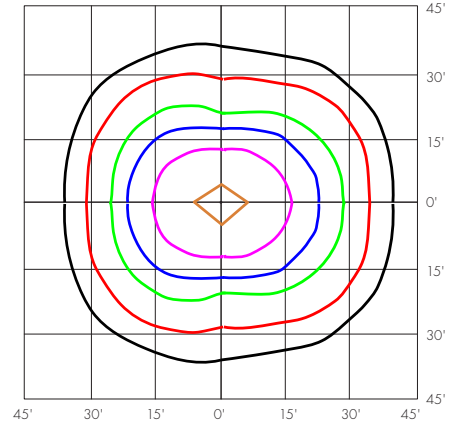
Zone	Lumens	% Luminaire
FL – Front-Low (0-30)	1,430	11%
FM – Front-Medium (30-60)	4,156	33%
FH – Front-High (60-80)	2,064	16%
FVH – Front-Very High (80-90)	123	1%
Total Forward Light	7,772	62%
BL – Back-Low (0-30)	1,356	11%
BM – Back-Medium (30-60)	2,666	21%
BH – Back-High (60-80)	694	6%
BVH – Back-Very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



Luminaire Orientation:



LEDMPAL100-5K
(12,353 Lumens, Type V [TV] Distribution)



BUG Rating: B3-U2-G2

Zone	Lumens	% Luminaire
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-Low (0-30)	2	0%
UM – Up-Medium (30-60)	28	0%
Total Up Light	29	0%
TOTAL LUMENS	12,353	100%

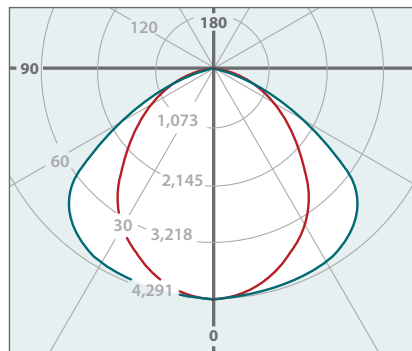
Notes:
(1) Isofootcandle plots depict initial footcandles at grade.
(2) Gridlines represent units of mounting height of 15 feet.

Luminaire Orientation



Maximum Candela:
4,291

- Horizontal
- Vertical



NEMA Floodlight Type Data

Field Angles	
Horizontal	168°
Vertical	160°
NEMA Type	
Horizontal	7H
Vertical	7V