

150 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: LEDMPAL150



project:

fixture type:

catalog #:

quantity:



EXAMPLES: (Slip-Fitter, Type III):LEDMPAL150-T-4K-T3+LEDMPAL-SF-80/300
(Yoke, Type V):LEDMPAL150-Y-4K(no options available)
(Arm, NEMA 7H x 7V)LEDMPAL150-T-4K+LEDMPAL-A-80/300

ORDERING GUIDE

LEDMPAL150				
MODEL	MOUNTING OPTIONS	COLOR TEMPERATURE	DISTRIBUTION TYPE	OPTIONS* (ORDER SEPARATELY)
LEDMPAL150 - 150 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 (neutral white) and 5000K (cool white). 277-480V models available in 4000k & 5000k.*
- Long-life LEDs provide 58,000 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 16,695 lumens and 109 lumens per watt (LPW) at 3000k; and 18,303 lumens and 120 LPW at both 4000k and 5000k.*
- Type III models (277-480V) deliver 17,517 lumens and 120 LPW at 4000k; and 17,919 lumens and 123 LPW at 5000k.*
- Type V models deliver (120-277V) 19,887 lumens and 130 LPW at 3000k; 18,486 lumens and 121 LPW at 4000k; and 18,752 lumens and 123 LPW at 5000k.*

- Type V models (277-480V) deliver 17,972 lumens and 123 LPW at 4000k; and 18,167 lumens and 124 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.

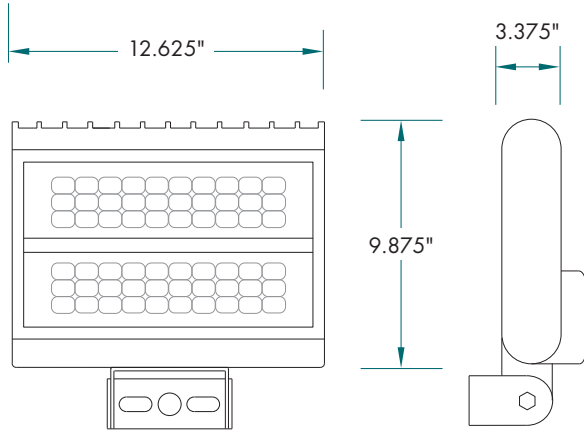
* Contact factory for other color temperatures and lumen packages

** L₇₀ hours are IES TM-21-11 calculated hours.

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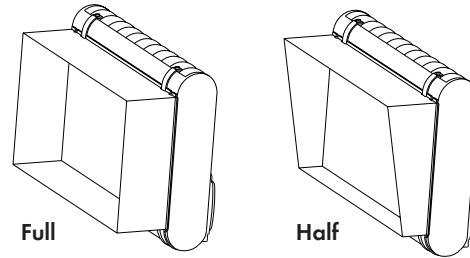
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Dimensions

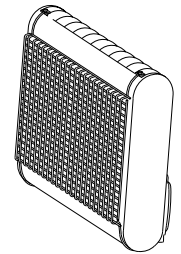


Weight: 9.6 lb

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			
LEDMPAL150-3K-T3	3000k	>80	16,695	153	109	120-277	1.28	0.64	0.55	>90%	<20%	58,000
LEDMPAL150-4K-T3	4000k	>80	18,303	153	120	120-277	1.28	0.64	0.55	>90%	<20%	58,000
LEDMPAL150-5K-T3	5000k	>80	18,303	153	120	120-277	1.28	0.64	0.55	>90%	<20%	58,000
LEDMPAL150-3K	3000k	>80	19,887	153	130	120-277	1.28	0.64	0.55	>90%	<20%	58,000
LEDMPAL150-4K	4000k	>80	18,486	153	121	120-277	1.28	0.64	0.55	>90%	<20%	58,000
LEDMPAL150-5K	5000k	>80	18,752	153	123	120-277	1.28	0.64	0.55	>90%	<20%	58,000
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			
LEDMPAL150-T-4K-T3-480V	4000k	>80	17,517	146	120	277-480	0.53	0.42	0.30	>90%	<20%	58,000
LEDMPAL150-T-5K-T3-480V	5000k	>80	17,919	146	123	277-480	0.53	0.42	0.30	>90%	<20%	58,000
LEDMPAL150-T-4K-480V	4000k	>80	17,972	146	123	277-480	0.53	0.42	0.30	>90%	<20%	68,000
LEDMPAL150-T-5K-480V	5000k	>80	18,167	146	124	277-480	0.53	0.42	0.30	>90%	<20%	68,000

¹ Color rendering index.

² All 50-60Hz.

³ Total harmonic distortion.

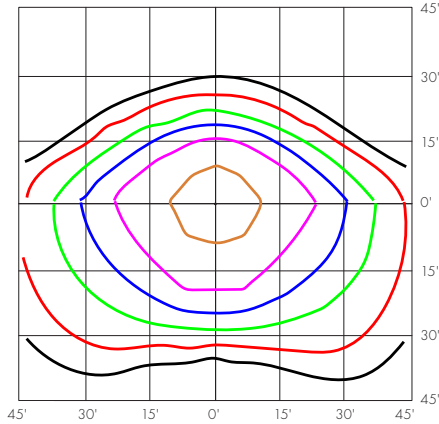
⁴ L₇₀ refers to the number of hours at which lumen output declines to 70% of the initial level. L₇₀ hours are IES TM-21-11 calculated hours.

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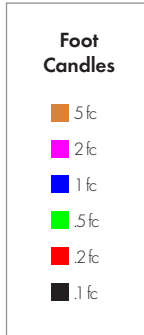
Photometric Data

LEDMPAL150-5K
(18,303 Lumens, Type III [T3] Distribution)



BUG Rating: B3-U2-G2

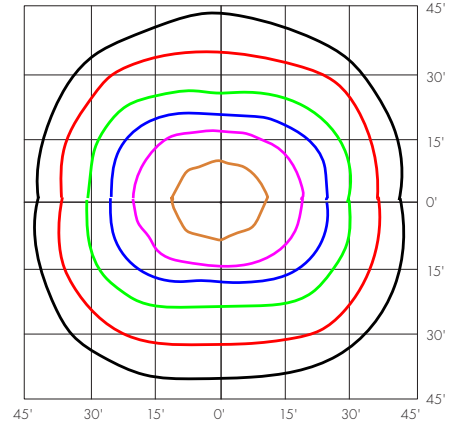
Zone	Lumens	% Luminaire
FL – Front-Low (0-30)	2,111	12%
FM – Front-Medium (30-60)	6,330	35%
FH – Front-High (60-80)	2,860	16%
FVH – Front-Very High (80-90)	127	1%
Total Forward Light	11,428	62%
BL – Back-Low (0-30)	2,072	11%
BM – Back-Medium (30-60)	3,927	21%
BH – Back-High (60-80)	801	4%
BVH – Back-Very High (80-90)	32	0%
Total Back Light	6,833	37%
UL – Up-Low (0-30)	2	0%
UM – Up-Medium (30-60)	40	0%
Total Up Light	40	0%
TOTAL LUMENS	18,303	100%



Luminaire Orientation:



LEDMPAL150-5K
(18,752 Lumens, Type V [TV] Distribution)



BUG Rating: B3-U2-G2

Zone	Lumens	% Luminaire
FL – Front-Low (0-30)	2,427	13%
FM – Front-Medium (30-60)	5,077	27%
FH – Front-High (60-80)	1,832	10%
FVH – Front-Very High (80-90)	186	1%
Total Forward Light	9,522	51%
BL – Back-Low (0-30)	2,338	12%
BM – Back-Medium (30-60)	4,982	27%
BH – Back-High (60-80)	1,693	9%
BVH – Back-Very High (80-90)	170	1%
Total Back Light	9,182	49%
UL – Up-Low (0-30)	3	0%
UM – Up-Medium (30-60)	45	0%
Total Up Light	48	0%
TOTAL LUMENS	18,752	100%

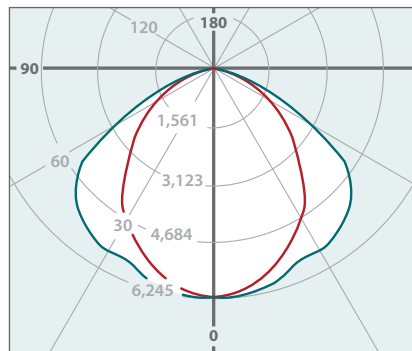
Notes:
(1) Isofootcandle plots depict initial footcandles at grade.
(2) Gridlines represent units of mounting height of 15 feet.

Luminaire Orientation



Maximum Candela:
6,245

- Horizontal
- Vertical



NEMA Floodlight Type Data

Field Angles	
Horizontal	160°
Vertical	163°
NEMA Type	
Horizontal	7H
Vertical	7V