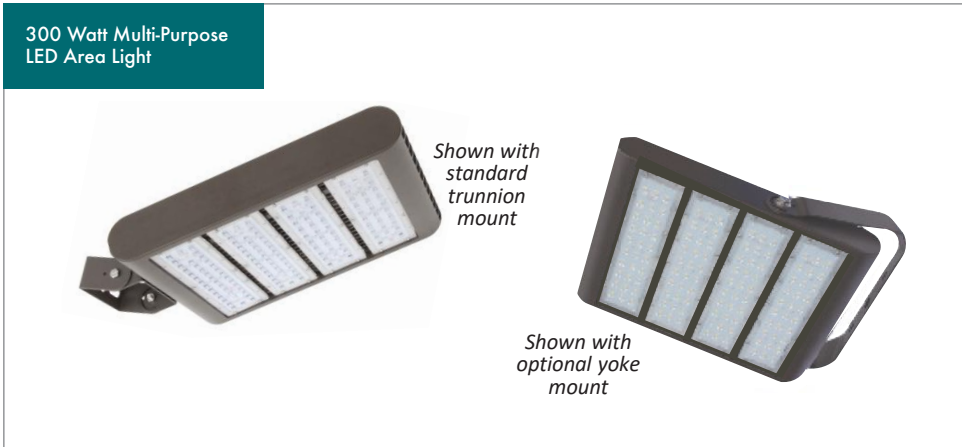


300 Watt Multi-Purpose LED Area Light

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: LEDMPAL300



project:

fixture type:

catalog #:

quantity:



EXAMPLES: (Slip-Fitter, Type III): LEDMPAL300T-4K-T3+LEDMPAL-SF-80/300
(Yoke, Type V): LEDMPAL300-Y-4K (no options available)
(Arm, NEMA 7H x 7V): LEDMPAL300-T-4K+LEDMPAL-A-80/300

ORDERING GUIDE

MODEL	MOUNTING OPTIONS	COLOR TEMPERATURE	DISTRIBUTION TYPE	OPTIONS* (ORDER SEPARATELY)
LEDMPAL300 - 300 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 (LEDMPAL300-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 and 5000k.*
- Long-life LEDs provide a minimum of 57,000 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 33,719 lumens and 111 lumens per watt (LPW) at 3000k; and 36,888 lumens and 121 LPW at both 4000k and 5000k.*
- Type III models (277-480V) deliver 36,677 lumens and 127 LPW at 4000k; and 34,678 lumens and 120 LPW at 5000k.*
- Type V models deliver (120-277V) 30,857 lumens and 102 LPW at 3000k; 37,597 lumens and 124 LPW at 4000k; and 38,122 lumens and 125 LPW at 5000k.*

- Type V models (277-480V) deliver 36,235 lumens and 126 LPW at 4000k; and 36,728 lumens and 128 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 (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.

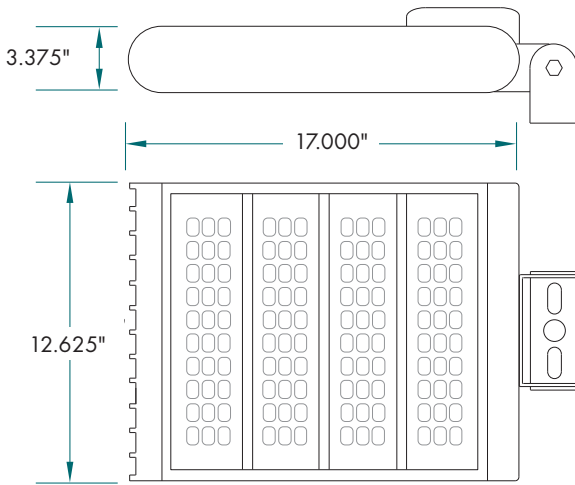
* Contact factory for other color temperatures and lumen packages

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

300 Watt Multi-Purpose LED Area Light

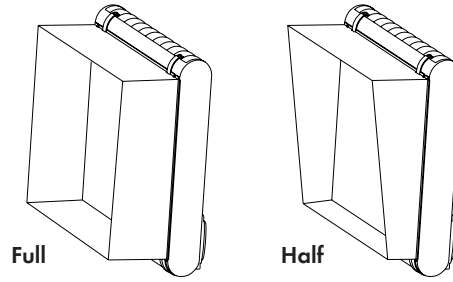
Prefix: LEDMPAL300

Dimensions

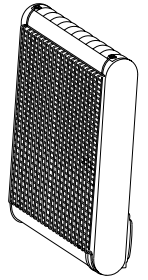


Weight: 17.3 lb

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			
LEDMPAL300-3K-T3	3000k	>80	33,719	304	111	120-277	2.53	1.27	1.10	>90%	<20%	57,000
LEDMPAL300-4K-T3	4000k	>80	36,888	304	121	120-277	2.53	1.27	1.10	>90%	<20%	57,000
LEDMPAL300-5K-T3	5000k	>80	36,888	304	121	120-277	2.53	1.27	1.10	>90%	<20%	57,000
LEDMPAL300-3K	3000k	>80	30,857	304	102	120-277	2.53	1.27	1.10	>90%	<20%	57,000
LEDMPAL300-4K	4000k	>80	37,597	304	124	120-277	2.53	1.27	1.10	>90%	<20%	57,000
LEDMPAL300-5K	5000k	>80	38,122	304	125	120-277	2.53	1.27	1.10	>90%	<20%	57,000
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			
LEDMPAL300-T-4K-T3-480V	4000k	>80	36,677	288	127	277-480	1.04	0.83	0.60	>90%	<20%	57,000
LEDMPAL300-T-5K-T3-480V	5000k	>80	34,678	288	120	277-480	1.04	0.83	0.60	>90%	<20%	57,000
LEDMPA300-T-4K-480V	4000k	>80	36,235	288	126	277-480	1.04	0.83	0.60	>90%	<20%	60,000
LEDMPAL300-T-5K-480V	5000k	>80	36,728	288	128	277-480	1.04	0.83	0.60	>90%	<20%	60,000

¹ Color rendering index.

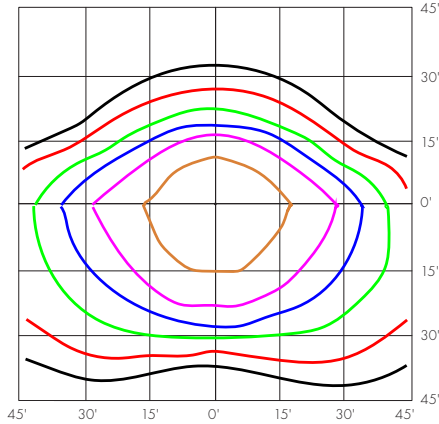
² All 50-60Hz.

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.

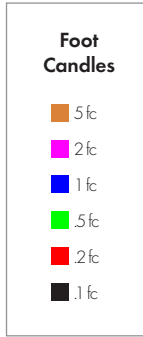
Photometric Data

LEDMPAL300-5K
(36,888 Lumens, Type III [T3] Distribution)

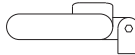


BUG Rating: B4-U3-G3

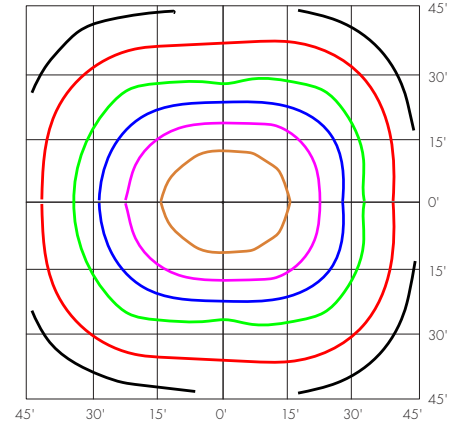
Zone	Lumens	% Luminaire
FL – Front-Low (0-30)	4,254	12%
FM – Front-Medium (30-60)	12,518	34%
FH – Front-High (60-80)	5,719	16%
FVH – Front-Very High (80-90)	283	1%
Total Forward Light	22,774	62%
BL – Back-Low (0-30)	4,171	11%
BM – Back-Medium (30-60)	8,041	22%
BH – Back-High (60-80)	1,739	5%
BVH – Back-Very High (80-90)	74	0%
Total Back Light	14,025	38%
UL – Up-Low (0-30)	5	0%
UM – Up-Medium (30-60)	84	0%
Total Up Light	89	0%
TOTAL LUMENS	36,888	100%



Luminaire Orientation:



LEDMPAL300-5K
(38,122 Lumens, Type V [TV] Distribution)



BUG Rating: B5-U3-G3

Zone	Lumens	% Luminaire
FL – Front-Low (0-30)	4,949	13%
FM – Front-Medium (30-60)	10,244	27%
FH – Front-High (60-80)	3,821	10%
FVH – Front-Very High (80-90)	409	1%
Total Forward Light	19,423	51%
BL – Back-Low (0-30)	4,755	12%
BM – Back-Medium (30-60)	10,039	26%
BH – Back-High (60-80)	3,424	9%
BVH – Back-Very High (80-90)	376	1%
Total Back Light	18,595	49%
UL – Up-Low (0-30)	8	0%
UM – Up-Medium (30-60)	96	0%
Total Up Light	104	0%
TOTAL LUMENS	38,122	100%

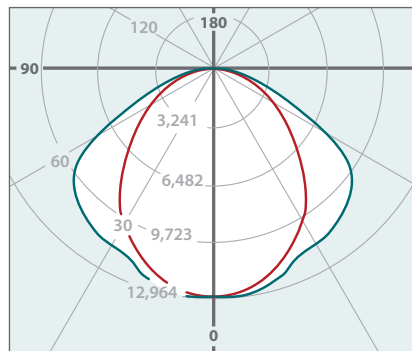
Notes:
(1) Isofootcandle plots depict initial footcandles at grade.
(2) Gridlines represent units of mounting height of 15 feet.

Luminaire Orientation



Maximum Candela:
12,964

Horizontal
Vertical



NEMA Floodlight Type Data

Field Angles	
Horizontal	160°
Vertical	166°
NEMA Type	
Horizontal	7H
Vertical	7V