LEDMPAL80/100/150

80/100/150 Watt Multi-Purpose LED Area Light

BEST LIGHTING PRODUCTS

Project:	
Type:	
Catalog #:	

Steel Arm Mount Option

Slip-Fitter Mount Option

STANDARD

cULus LISTED · DLC QPL LISTED · WET · CE · RoHS · FC

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.

FEATURES

- *Available in 4000K (neutral white) and 5000K (cool white).* [*]
- *Long-life LEDs provide at least 58,000 hours of operation with at least 70% of initial lumen output (L_{70}).* [**]
- *LEDMPAL80 delivers 8,591 lumens (110 lumens per watt, LPW) at 4000k, and 9,064 lumens (116 LPW) at 5000k.* [*]
- *LEDMPAL100 delivers 10,035 lumens (102 LPW) at 4000k, and 11,021 lumens (112 LPW) at 5000k.* [*]
- *LEDMPAL150 delivers 15,131 lumens (98 LPW) at both 4000k and 5000k.* [*]
- *Universal 100-277 AC voltage (50-60Hz) is standard.*
- *0-10vdc dimming capability is standard on LEDMPAL100 and LEDMPAL150.*
- *Power factor > 0.90.*
- *Total harmonic distortion < 20%.*
- *Color rendering index > 80.*
- *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: Front = 0.38 sf; Side = 0.30 sf; and Face = 1.04 sf.*
- *Threaded receptacle (½" 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.*
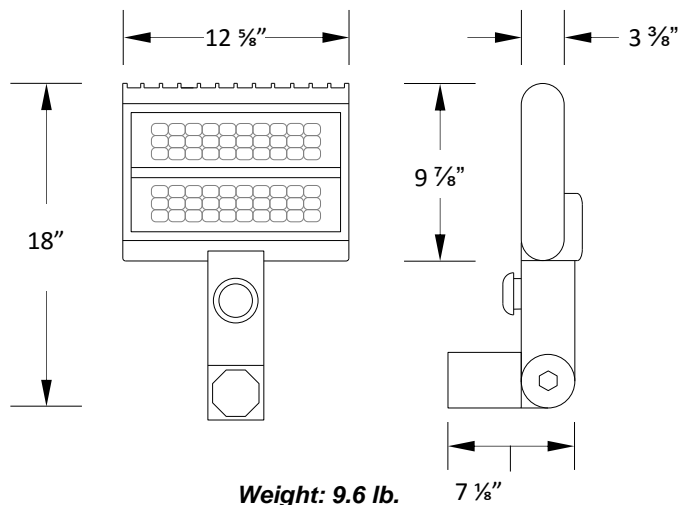[**] *L_{70} hours are IES TM-21-11 calculated hours.*

WARRANTY & LISTINGS

- *cULus listed for wet locations (-30°C to 40°C / -22°F to 104°F)*
- *IP65 rated.*
- *DLC approved.*
- *Complies with FCC Part 15.*
- *Complies with EN61000-4-5, surge immunity (LEDMPAL80 – 2kV, LEDMPAL100 & LEDMPAL150 – 6kV).*
- *Complies with EN61000-4-2 level 2 electrostatic discharge (4kV).*
- *Tested to UL1598, UL8750 and IEC60598 safety standards.*
- *5-year warranty on all electronics and housing.*

MOUNTING OPTIONS

- *Slip-fitter mount provides attachment to poles (2 ⅜" O.D. tenon).*
- *Steel arm mount provides secure attachment to flat surfaces.*
- *Yoke mount available by special order.*

DIMENSIONS

12 ⅝" · 3 ⅜" · 9 ⅞" · 18" · 7 ⅛"

Weight: 9.6 lb.

ORDERING INFORMATION

Example: LEDMPAL80-4K + LEDMPAL-SF-80/300

Model	Luminaire Watts	Color Temperature	Luminaire Lumens	Lumens / Watt	Mounting Options (Order Separately)
LEDMPAL80	78	4K = 4000k 5K = 5000k	8,591 9,064	110 116	Slip-Fitter Mount = LEDMPAL-SF-80/300
LEDMPAL100	98	4K = 4000k 5K = 5000k	10,035 11,021	102 112	Steel Arm Mount = LEDMPAL-A-80/300
LEDMPAL150	154	4K = 4000k 5K = 5000k	15,131 15,131	98 98	Yoke Mount = LEDMPAL-Y-80/300

ELECTRICAL DATA

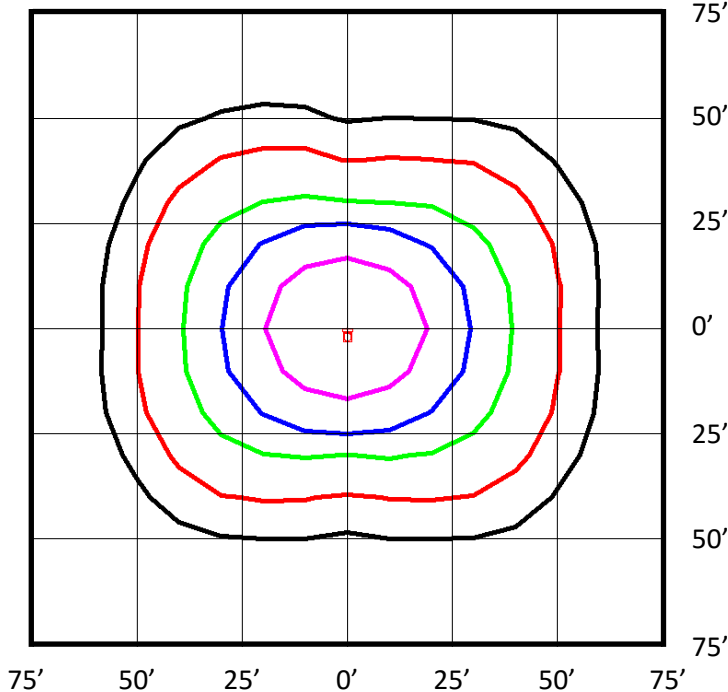| Model	Color Temperature	CRI [1]	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Input Voltage	Input Current (A)			Power Factor	THD [2]	L$_{70}$ Hours [3]
							120V	240V	277V			
LEDMPAL80-4K	4000k	> 80	8,591	78	110	120-277 (50-60Hz)	0.65	0.33	0.28	> 90%	< 20%	69,000
LEDMPAL80-5K	5000k	> 80	9,064	78	116	120-277 (50-60Hz)	0.65	0.33	0.28	> 90%	< 20%	69,000
LEDMPAL100-4K	4000k	> 80	10,035	98	102	120-277 (50-60Hz)	0.82	0.41	0.35	> 90%	< 20%	69,000
LEDMPAL100-5K	5000k	> 80	11,021	98	112	120-277 (50-60Hz)	0.82	0.41	0.35	> 90%	< 20%	69,000
LEDMPAL150-4K	4000k	> 80	15,131	154	98	120-277 (50-60Hz)	1.28	0.64	0.56	> 90%	< 20%	58,000
LEDMPAL150-5K	5000k	> 80	15,131	154	98	120-277 (50-60Hz)	1.28	0.64	0.56	> 90%	< 20%	58,000

[1] Color rendering index
[2] Total harmonic distortion
[3] L$_{70}$ refers to the number of hours at which lumen output declines to 70% of the initial level. L$_{70}$ hours are IES TM-21-11 calculated hours.
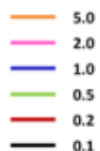
PHOTOMETRIC DATA

LEDMPAL80-4K (8,591 Lumens, , Type V Distribution)

BUG Rating: B3-U2-G2

Zone		Lumens	%
FL	- Front - Low (0-30)	1,069	12%
FM	- Front - Medium (30-60)	2,301	27%
FH	- Front - High (60-80)	827	10%
FVH	- Front - Very High (80-90)	73	1%
Total Forward Light		**4,271**	**50%**
BL	- Back - Low (0-30)	1,090	13%
BM	- Back - Medium (30-60)	2,293	27%
BH	- Back - High (60-80)	856	10%
BVH	- Back - Very High (80-90)	64	1%
Total Back Light		**4,302**	**50%**
UL	- Up Light - Low (90-100)	1	0%
UH	- Up Light - High (100-180)	17	0%
Total Up Light		**18**	**0%**
Total Lumens		**8,591**	**100%**

Foot Candles
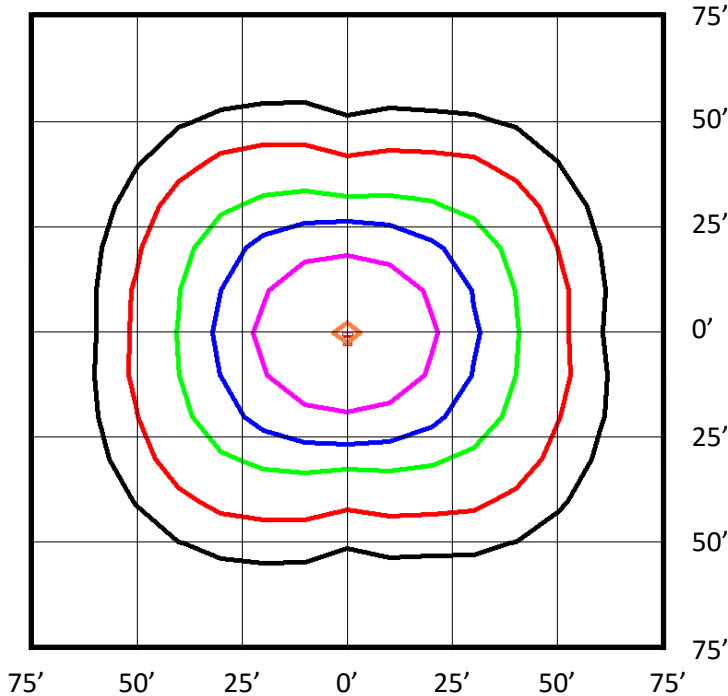— 5.0
— 2.0
— 1.0
— 0.5
— 0.2
— 0.1

Notes:

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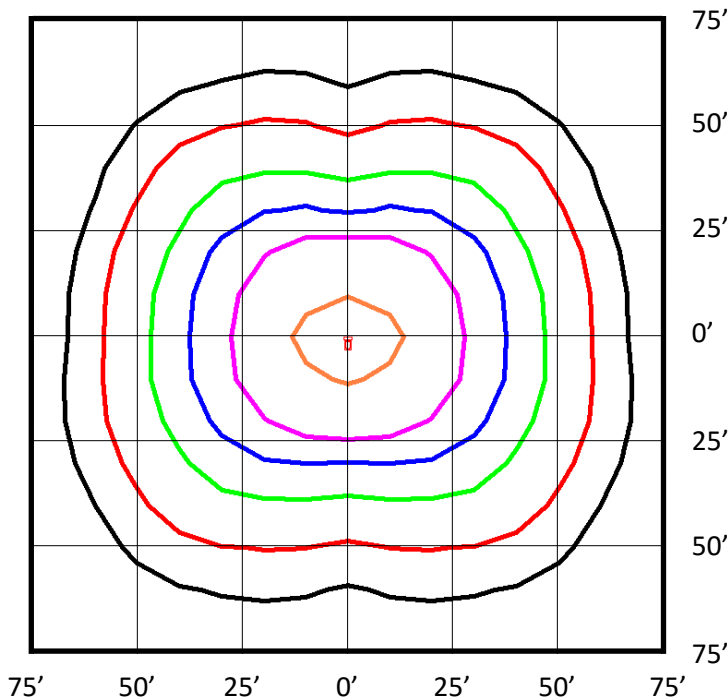- *Gridlines represent units of mounting height of 25 feet.*

PHOTOMETRIC DATA

LEDMPAL100-4K (10,035 Lumens , Type V Distribution)

BUG Rating: B3-U2-G2

Zone		Lumens	%
FL	- Front - Low (0-30)	1,285	13%
FM	- Front - Medium (30-60)	2,708	27%
FH	- Front - High (60-80)	997	10%
FVH	- Front - Very High (80-90)	87	1%
Total Forward Light		**5,077**	**51%**
BL	- Back - Low (0-30)	1,259	13%
BM	- Back - Medium (30-60)	2,654	26%
BH	- Back - High (60-80)	960	10%
BVH	- Back - Very High (80-90)	71	1%
Total Back Light		**4,944**	**49%**
UL	- Up Light - Low (90-100)	1	0%
UH	- Up Light - High (100-180)	14	0%
Total Up Light		**15**	**0%**
Total Lumens		**10,035**	**100%**

LEDMPAL150-4K (15,131 Lumens , Type V Distribution)

BUG Rating: B3-U2-G3

Zone		Lumens	%
FL	- Front - Low (0-30)	1,836	12%
FM	- Front - Medium (30-60)	4,134	27%
FH	- Front - High (60-80)	1,655	11%
FVH	- Front - Very High (80-90)	128	1%
Total Forward Light		**7,754**	**51%**
BL	- Back - Low (0-30)	1,747	12%
BM	- Back - Medium (30-60)	3,936	26%
BH	- Back - High (60-80)	1,574	10%
BVH	- Back - Very High (80-90)	96	1%
Total Back Light		**7,353**	**49%**
UL	- Up Light - Low (90-100)	1	0%
UH	- Up Light - High (100-180)	24	0%
Total Up Light		**25**	**0%**
Total Lumens		**15,132**	**100%**

Foot Candles

5.0	
2.0	
1.0	
0.5	
0.2	
0.1	

Notes:

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