

Date:	Approved:
Type:	
Fixture:	
Project:	

15-50 Watt, Premium Multi-Purpose LED Area Luminaire LS-MPALPRO15-50



STANDARD



FEATURES

- Available in 3000k (warm white), 4000k (neutral white) and 5000k (cool white) color temperatures.*
- Long-life LEDs provide up to 372,000 hours of operation with at least 70% of initial lumen output (L₇₀).**
- Available models provide from 1,592 to 5,919 lumens, and from 110 to 125 lumens per watt (LPW).*
- Standard optic provides an IES roadway type V distribution, or a 7V (vertical) x 7H (horizontal) NEMA floodlight distribution.
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor > 90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Optional glare shields (full & half) & wire guards are available.
- Die cast aluminum housing with durable, dark bronze powder coat finish.
- Wireway enclosure is sealed with a water-tight, silicon rubber gasket.
- Easy installation in new construction or retrofit applications.

* Contact factory for other color temperatures and lumen packages.

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

WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperature to 45°C (-4°F to 113°F).
- IP66 rated for ingress protection.
- DLC premium approved.
- Rated for 3G vibration.
- Lens is IK 8 rated for protection from external impacts.
- Salt fog tested for 1,000 hours (ASTM B117). After salt fog testing, paint rated at 9 per ASTM D1654-05 scratch test.
- Complies with FCC Part 15, class B.
- Complies with EN61000-4-5, surge immunity protection (2kV).
- 5-year warranty of all electronics and housing.

MOUNTING OPTIONS

- Aluminum die-cast knuckle-mount option is installed on a junction box. Includes ½" NPS stem with locking nut.
- Yoke-mount option provides secure attachment to flat surfaces.

ORDERING INFORMATION

Example: LS-MPALPRO15-K-3K

Series	Mounting Options	Color Temperature	Accessories (Order Separately)
LS-MPALPRO15	K Knuckle Mount	3K 3000k	LS-MPALPRO15-FGS Full Glare Shield, 15W LS-MPALPRO15-HGS Half Glare Shield, 15W
LS-MPALPRO30	Y Yoke Mount	4K 4000k	LS-MPALPRO15-WG Wire Guard, 15W Full LS-MPALPRO30-FGS Glare Shield, 30W Half
LS-MPALPRO50		5K 5000k	LS-MPALPRO30-HGS Glare Shield, 30W LS-MPALPRO30-WG Wire Guard, 30W Full LS-MPALPRO50-FGS Glare Shield, 50W Half LS-MPALPRO50-HGS Glare Shield, 50W LS-MPALPRO50-WG Wire Guard, 50W

ELECTRICAL DATA

Model	Color Temperature	CRI ¹	Luminaire Lumens	Luminaire Watts	Lumens Per Watt	Input Voltage ²	Input Current (A)			Power Factor	THD ³	L ₇₀ Hours ⁴
							120V	240V	277V			
LS-MPALPRO15-3K	3000k	> 80	1,592	14	110	120-277	0.12	0.06	0.05	> 90%	< 20%	372,000
LS-MPALPRO15-4K	4000k	> 80	1,603	14	111	120-277	0.12	0.06	0.05	> 90%	< 20%	372,000
LS-MPALPRO15-5K	5000k	> 80	1,624	14	113	120-277	0.12	0.06	0.05	> 90%	< 20%	372,000
LS-MPALPRO30-3K	3000k	> 80	3,450	30	114	120-277	0.25	0.13	0.11	> 90%	< 20%	372,000
LS-MPALPRO30-4K	4000k	> 80	3,520	30	116	120-277	0.25	0.13	0.11	> 90%	< 20%	372,000
LS-MPALPRO30-5K	5000k	> 80	3,624	30	119	120-277	0.25	0.13	0.11	> 90%	< 20%	372,000
LS-MPALPRO50-3K	3000k	> 80	5,626	47	119	120-277	0.39	0.20	0.17	> 90%	< 20%	372,000
LS-MPALPRO50-4K	4000k	> 80	5,743	47	121	120-277	0.39	0.20	0.17	> 90%	< 20%	372,000
LS-MPALPRO50-5K	5000k	> 80	5,919	47	125	120-277	0.39	0.20	0.17	> 90%	< 20%	372,000

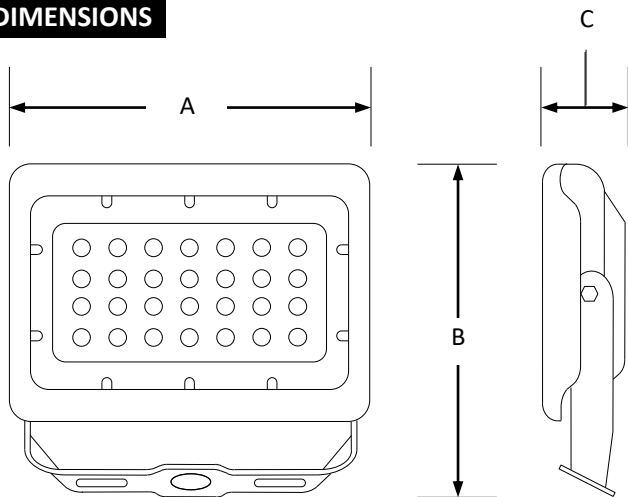
¹ Color rendering index.

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.

DIMENSIONS



Weight & Dimensions	A	B	C	Weight (lbs)
15W	4 ¾"	5 ¾"	1 ½"	1.1
30W	7 ¼"	7"	1 ⅝"	2.5
50W	8 ½"	8"	1 ⅞"	3.6

EFFECTIVE PROJECTED AREAS (EPA's)

15W

Front = 0.05 s.f. (knuckle) / 0.06 s.f. (yoke)

Side = 0.07 s.f. (knuckle & yoke)

Face = 0.20 s.f. (knuckle) / 0.23 s.f. (yoke)

30W

Front = 0.12 s.f. (knuckle) / 0.10 s.f. (yoke)

Side = 0.15 s.f. (knuckle) / 0.09 s.f. (yoke)

Face = 0.55 s.f. (knuckle) / 0.42 s.f. (yoke)

50W

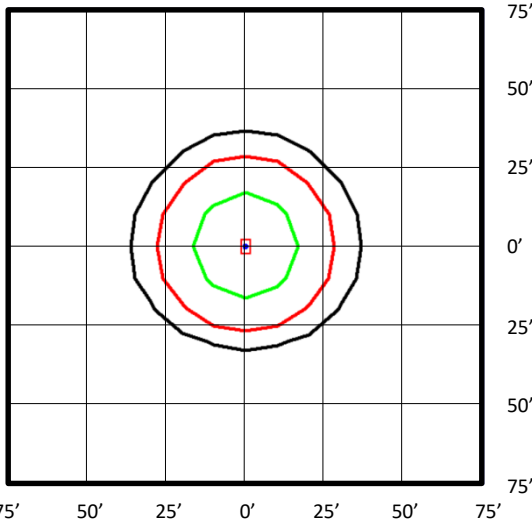
Front = 0.15 s.f. (knuckle) / 0.13 s.f. (yoke)

Side = 0.18 s.f. (knuckle) / 0.13 s.f. (yoke)

Face = 0.73 s.f. (knuckle) / 0.57 s.f. (yoke)

PHOTOMETRIC DATA

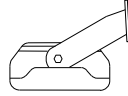
LS-MPALPRO15-3K (1,592 Lumens, Type V Distribution)



Foot Candles

- 5.0
- 2.0
- 1.0
- 0.5
- 0.2
- 0.1

Luminaire Orientation:

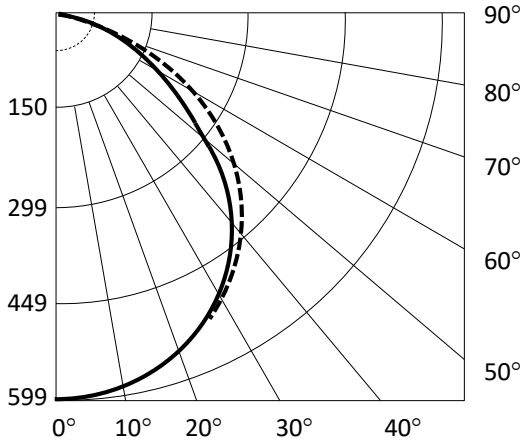


Notes:

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

BUG Rating: B1-U0-G0

Zone	Lumens	%
FL - Front - Low (0-30)	232	15%
FM - Front - Medium (30-60)	432	27%
FH - Front - High (60-80)	109	7%
FVH - Front - Very High (80-90)	3	0%
Total Forward Light	776	49%
BL - Back - Low (0-30)	236	15%
BM - Back - Medium (30-60)	450	28%
BH - Back - High (60-80)	126	8%
BVH - Back - Very High (80-90)	5	0%
Total Back Light	816	51%
UL - Up Light - Low (90-100)	0	0%
UH - Up Light - High (100-180)	0	0%
Total Up Light	0	0%
Total Lumens	1,592	100%



NEMA Floodlight Type Data

Field Angles:

- Horizontal 144°
- Vertical 152°

NEMA Type:

- Horizontal 7H
- Vertical 7V

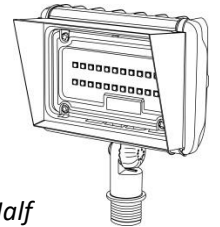
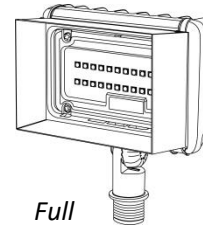
Luminaire Orientation:



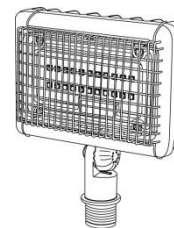
Maximum Candela = 599

- Horizontal
- - - Vertical

Shields

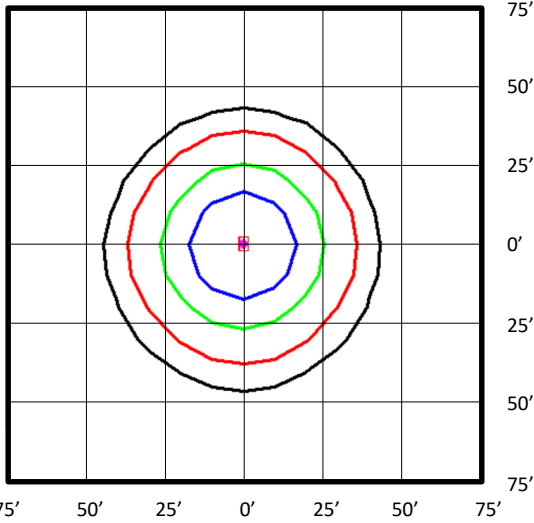


Wire Guards



PHOTOMETRIC DATA

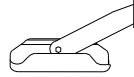
LS-MPALPRO30-3K (3,450 Lumens, Type V Distribution)



Foot Candles

- 5.0
- 2.0
- 1.0
- 0.5
- 0.2
- 0.1

Luminaire Orientation:

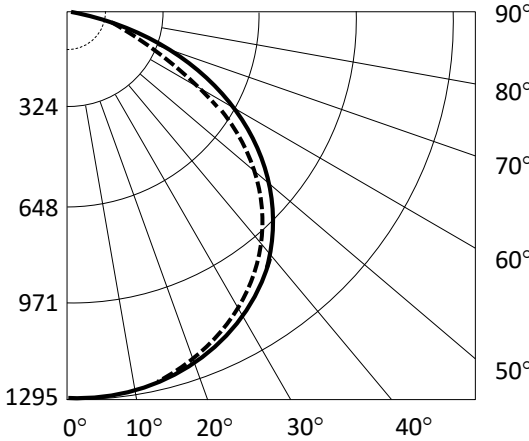


Notes:

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

BUG Rating: B2-U2-G0

Zone	Lumens	%
FL - Front - Low (0-30)	516	15%
FM - Front - Medium (30-60)	1,017	29%
FH - Front - High (60-80)	255	7%
FVH - Front - Very High (80-90)	8	0%
Total Forward Light	1,796	52%
BL - Back - Low (0-30)	501	15%
BM - Back - Medium (30-60)	927	27%
BH - Back - High (60-80)	205	6%
BVH - Back - Very High (80-90)	6	0%
Total Back Light	1,639	47%
UL - Up Light - Low (90-100)	2	0%
UH - Up Light - High (100-180)	14	0%
Total Up Light	16	0%
Total Lumens	3,450	100%



NEMA Floodlight Type Data

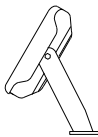
Field Angles:

- Horizontal 148°
- Vertical 147°

NEMA Type:

- Horizontal 7H
- Vertical 7V

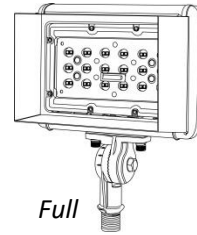
Luminaire Orientation:



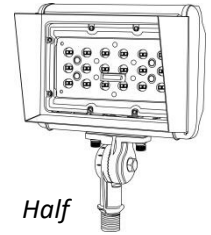
Maximum Candela = 1295

- Horizontal
- - - Vertical

Shields

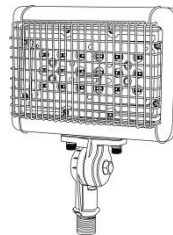


Full



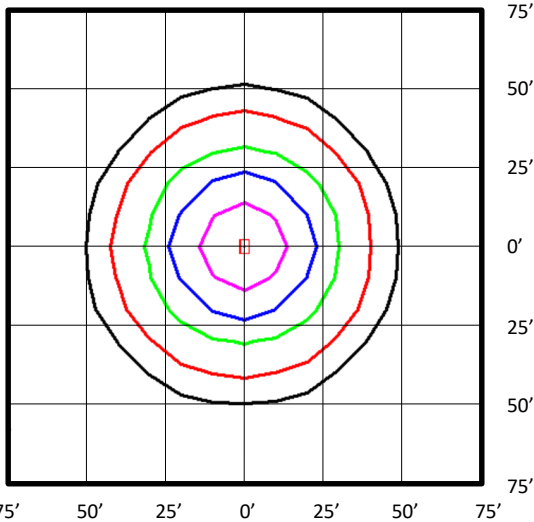
Half

Wire Guards



PHOTOMETRIC DATA

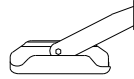
LS-MPALPRO50-3K (5,626 Lumens, Type V Distribution)



Foot Candles

- 5.0
- 2.0
- 1.0
- 0.5
- 0.2
- 0.1

Luminaire Orientation:



Notes:

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

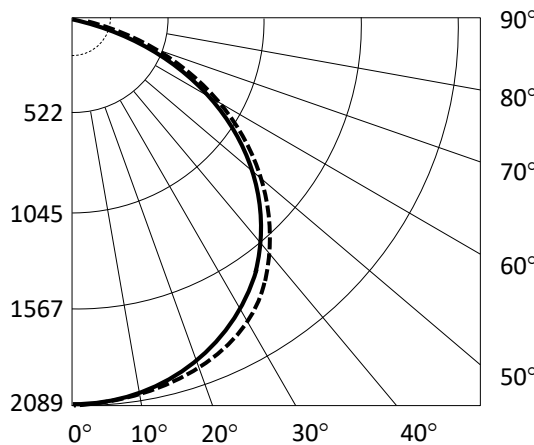
BUG Rating: B2-U2-G1

Zone	Lumens	%
FL - Front - Low (0-30)	821	15%
FM - Front - Medium (30-60)	1,551	28%
FH - Front - High (60-80)	405	7%
FVH - Front - Very High (80-90)	12	0%
Total Forward Light	2,788	50%

BL - Back - Low (0-30)	824	15%
BM - Back - Medium (30-60)	1,583	28%
BH - Back - High (60-80)	400	7%
BVH - Back - Very High (80-90)	11	0%
Total Back Light	2,818	50%

UL - Up Light - Low (90-100)	2	0%
UH - Up Light - High (100-180)	18	0%
Total Up Light	20	0%

Total Lumens	5,626	100%
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NEMA Floodlight Type Data

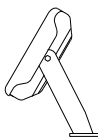
Field Angles:

- Horizontal 148°
- Vertical 150°

NEMA Type:

- Horizontal 7H
- Vertical 7V

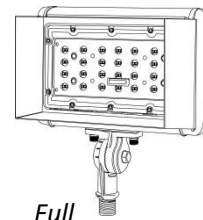
Luminaire Orientation:



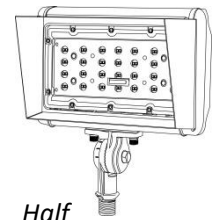
Maximum Candela = 2089

- Horizontal
- - - Vertical

Shields



Full



Half

Wire Guards

