

JGMPAL 240-280

240-280 Watt, Premium Multi-Purpose LED Area Luminaire



Project:	
Type:	
Catalog #:	

STANDARD



The JGMPAL series is a group of premium 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 JGMPAL 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) color temperatures.*
- Long-life LEDs provide 372,000 hours of operation with at least 70% of initial lumen output (L_{70}).**
- Available models provide from 27,944 to 36,542 lumens, and from 117 to 131 lumens per watt (LPW).*
- IES roadway photometric distributions include types II-V.
- NEMA floodlight distributions include very narrow (3H x 3V), medium narrow (4H x 4V), medium wide (5H x 5V) & very wide (7H x 7V).
- Universal 120-277 AC voltage (50-60Hz) is standard.
- Power factor > 0.90.
- Total harmonic distortion < 20%.
- Color rendering index > 80.
- Optional glare shields (full & half) & wire guards are available.
- Optional NEMA photocell installation kit provides watertight photocell attachment to driver enclosure clover.
- Die cast aluminum housing with durable, dark bronze powder coat finish—at least 2 mils thick on all surfaces—and a heat-resistant polycarbonate lens.
- Driver enclosure is sealed with a water-tight, silicon rubber gasket.
- Effective projected areas (EPA's) are:
 - Front = 0.33 square feet
 - Side = 0.49 square feet
 - Face = 2.14 square feet
- Easy installation in new construction or retrofit applications.

* Contact factory for other color temperatures and lumen packages.

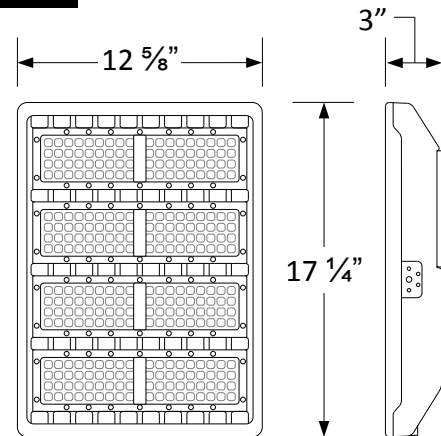
** L_{70} hours are IES TM-21-11 calculated hours.



WARRANTY & LISTINGS

- cULus listed for wet locations in ambient temperatures from -20°C to 45°C (-4°F to 113°F).
- IP66 rated for ingress protection.
- DLC premium approved.
- Flicker-free per IEEE1789-2015 (no observable adverse effects of flicker at 100% light output level).
- Rated for 3G vibration.
- Lens is IK 9 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 (6kV).
- 5-year warranty of all electronics and housing.

DIMENSIONS



Weight: 11.7 lbs. (240W) & 11.9 lbs. (280W)

ORDERING INFORMATION

Example: JGMPAL 240-4K + JGMPAL -YK-240/280 + JGMPAL 240/280 -FGS + JGMPAL 240/280 -WG

Model	Color Temperature	Mounting Brackets (Order Separately)	Shields, Wire Guards & NEMA Photocell Kit (Order Separately)
JGMPAL 240	4K = 4000k	JGMPAL -YK-240/280 = Yoke Mounting Bracket, 240 – 280W	JGMPAL 240/280 -FGS = Full Glare Shield, 240 – 280W
JGMPAL 280	5K = 5000k	JGMPAL -TR-80/280 = Trunnion Mounting Bracket, 80 – 280W	JGMPAL 240/280 -HGS = Half Glare Shield, 240 – 280W
		JGMPAL -ARM-80/280 = Arm Mounting Bracket, 80 – 280W	JGMPAL 240/280 -WG = Wire Guard, 240 – 280W
		JGMPAL -SF-80/280 = Slip-Fitter Mounting Bracket, 80 – 280W	JGMPAL -PCKIT-80/280 = NEMA Photocell Installation Kit, 80 – 280W

FME Lighting | 877-234-8460 | info@fmelighting.com

Specifications and dimensions subject to change without notice.

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ELECTRICAL DATA

Model	Color Temp.	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				
IES Roadway Distributions ⁵													
	JGMPAL240 -4K-T2	4000k	> 80	30,714	239	128.5	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -5K-T2	5000k	> 80	31,093	239	130.1	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -4K-T3	4000k	> 80	29,589	239	123.8	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -5K-T3	5000k	> 80	29,926	239	125.2	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -4K-T4	4000k	> 80	30,439	239	127.4	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -5K-T4	5000k	> 80	30,751	239	128.7	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -4K-T5	4000k	> 80	27,944	239	116.9	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -5K-T5	5000k	> 80	28,410	239	118.9	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	LEDMPAL280-4K-T2	4000k	> 80	35,139	279	125.9	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000
	LEDMPAL280-5K-T2	5000k	> 80	35,678	279	127.9	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000
	LEDMPAL280-4K-T3	4000k	> 80	34,424	279	123.4	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000
	LEDMPAL280-5K-T3	5000k	> 80	34,907	279	125.1	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000
	LEDMPAL280-4K-T4	4000k	> 80	35,243	279	126.3	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000
	LEDMPAL280-5K-T4	5000k	> 80	35,516	279	127.3	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000
LEDMPAL280-4K-T5	4000k	> 80	32,546	279	116.7	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000	
LEDMPAL280-5K-T5	5000k	> 80	32,956	279	118.1	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000	
NEMA Floodlight Distributions ⁶													
	JGMPAL240 -4K-VN	4000k	> 80	31,106	239	130.2	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -5K-VN	5000k	> 80	31,357	239	131.2	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -4K-MN	4000k	> 80	31,071	239	130.0	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -5K-MN	5000k	> 80	31,344	239	131.1	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -4K-MW	4000k	> 80	30,937	239	129.4	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -5K-MW	5000k	> 80	31,243	239	130.7	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -4K-VW	4000k	> 80	27,944	239	116.9	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	JGMPAL240 -5K-VW	5000k	> 80	28,410	239	118.9	120-277	1.99	1.00	0.86	> 90%	< 20%	372,000
	LEDMPAL280-4K-VN	4000k	> 80	36,166	279	129.6	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000
	LEDMPAL280-5K-VN	5000k	> 80	36,542	279	131.0	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000
	LEDMPAL280-4K-MN	4000k	> 80	36,016	279	129.1	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000
	LEDMPAL280-5K-MN	5000k	> 80	36,347	279	130.3	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000
	LEDMPAL280-4K-MW	4000k	> 80	35,849	279	128.5	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000
	LEDMPAL280-5K-MW	5000k	> 80	36,224	279	129.8	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000
LEDMPAL280-4K-VW	4000k	> 80	32,546	279	116.7	120-277	2.33	1.16	1.01	> 90%	< 20%	372,000	
LEDMPAL280-5K-VW	5000k	> 80	32,956	279	118.1	120-277	2.33	1.16	1.01	> 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.

⁵ T2 = type II, T3 = type III, T4 = type IV, and T5 = type V.

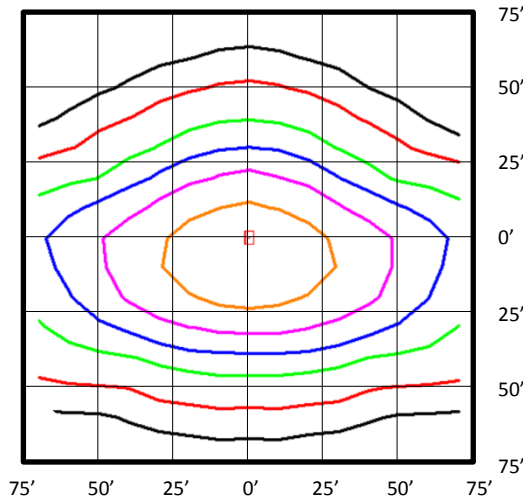
⁶ VN = very narrow, MN = medium narrow, MW = medium wide, and VW = very wide.

JGMPAL 240-280

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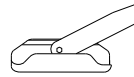
JGMPAL240-4K-T2 (30,714 Lumens, Type II Distribution)



Foot Candles



Luminaire Orientation:



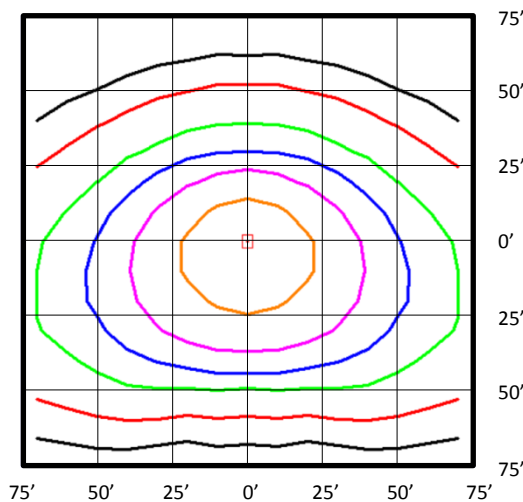
Notes:

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

BUG Rating: B4-U0-G4

Zone	Lumens	%
FL - Front - Low (0-30)	3,643	12%
FM - Front - Medium (30-60)	10,507	34%
FH - Front - High (60-80)	5,495	18%
FVH - Front - Very High (80-90)	419	1%
Total Forward Light	20,063	65%
BL - Back - Low (0-30)	2,421	8%
BM - Back - Medium (30-60)	5,020	16%
BH - Back - High (60-80)	2,955	10%
BVH - Back - Very High (80-90)	255	1%
Total Back Light	10,651	35%
UL - Up Light - Low (90-100)	0	0%
UH - Up Light - High (100-180)	0	0%
Total Up Light	0	0%
Total Lumens	30,714	100%

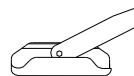
JGMPAL240-4K-T3 (29,589 Lumens, Type III Distribution)



Foot Candles



Luminaire Orientation:



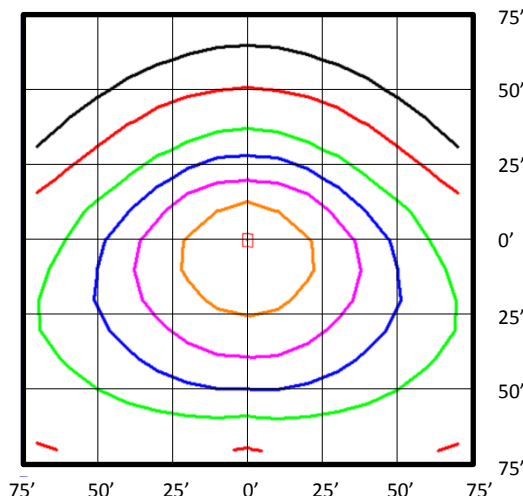
Notes:

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

BUG Rating: B4-U0-G4

Zone	Lumens	%
FL - Front - Low (0-30)	3,329	11%
FM - Front - Medium (30-60)	9,480	32%
FH - Front - High (60-80)	5,766	19%
FVH - Front - Very High (80-90)	460	2%
Total Forward Light	19,035	64%
BL - Back - Low (0-30)	2,613	9%
BM - Back - Medium (30-60)	5,147	17%
BH - Back - High (60-80)	2,613	9%
BVH - Back - Very High (80-90)	181	1%
Total Back Light	10,554	36%
UL - Up Light - Low (90-100)	0	0%
UH - Up Light - High (100-180)	0	0%
Total Up Light	0	0%
Total Lumens	29,589	100%

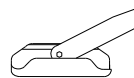
JGMPAL240-4K-T4 (30,439 Lumens, Type IV Distribution)



Foot Candles



Luminaire Orientation:



Notes:

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

BUG Rating: B2-U0-G3

Zone	Lumens	%
FL - Front - Low (0-30)	3,676	12%
FM - Front - Medium (30-60)	9,633	32%
FH - Front - High (60-80)	6,996	23%
FVH - Front - Very High (80-90)	937	3%
Total Forward Light	21,242	70%
BL - Back - Low (0-30)	2,566	8%
BM - Back - Medium (30-60)	4,215	14%
BH - Back - High (60-80)	2,185	7%
BVH - Back - Very High (80-90)	232	1%
Total Back Light	9,197	30%
UL - Up Light - Low (90-100)	0	0%
UH - Up Light - High (100-180)	0	0%
Total Up Light	0	0%
Total Lumens	30,439	100%

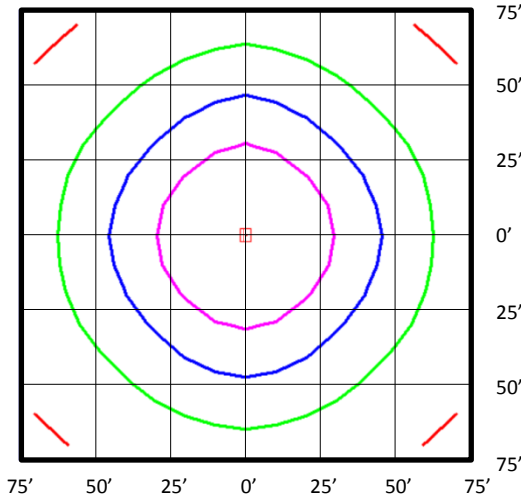
JGMPAL 240-280

240-280 Watt, Premium Multi-Purpose LED Area Luminaire



PHOTOMETRIC DATA – IES Roadway Distributions (continued)

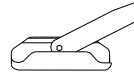
JGMPAL240-4K-T5 (27,944 Lumens, Type V Distribution)



Foot Candles



Luminaire Orientation:



Notes:

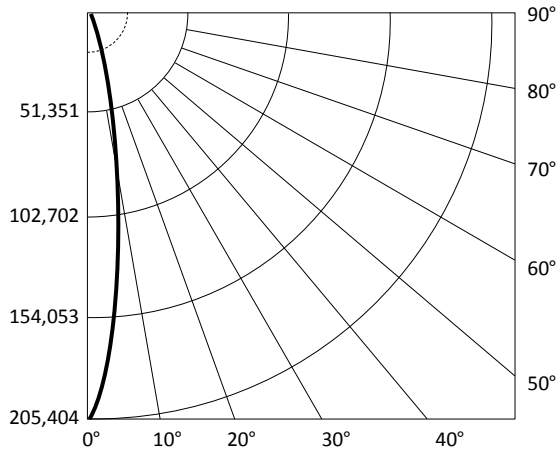
- Isofootcandle plots depict initial footcandles at grade.
- Gridlines represent units of mounting height of 25 feet.

BUG Rating: B3-U0-G3

Zone	Lumens	%
FL - Front - Low (0-30)	1,381	5%
FM - Front - Medium (30-60)	5,510	20%
FH - Front - High (60-80)	6,265	22%
FVH - Front - Very High (80-90)	959	3%
Total Forward Light	14,115	51%
BL - Back - Low (0-30)	1,361	5%
BM - Back - Medium (30-60)	5,353	19%
BH - Back - High (60-80)	6,116	22%
BVH - Back - Very High (80-90)	999	4%
Total Back Light	13,829	49%
UL - Up Light - Low (90-100)	0	0%
UH - Up Light - High (100-180)	0	0%
Total Up Light	0	0%
Total Lumens	27,944	100%

PHOTOMETRIC DATA – NEMA Floodlight Distributions

JGMPAL 240-4K-VN (31,106 Lumens, Very Narrow)



Maximum Candela = 205,404

—— Horizontal
----- Vertical

NEMA Floodlight Data

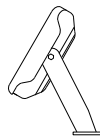
Field Angles:

- Horizontal 36°
- Vertical 38°

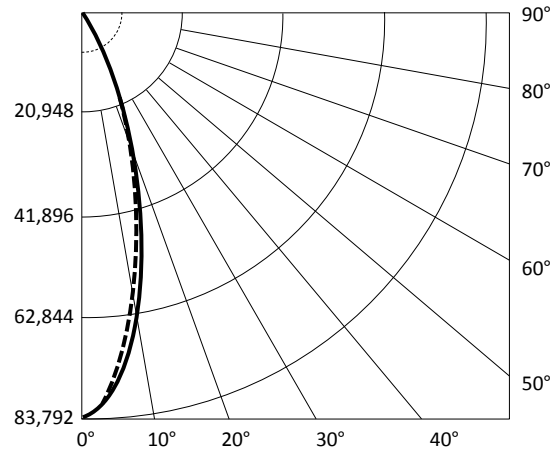
NEMA Type:

- Horizontal 3H
- Vertical 3V

Luminaire Orientation:



JGMPAL240-4K-MN (31,071 Lumens, Medium Narrow)



Maximum Candela = 83,792

—— Horizontal
----- Vertical

NEMA Floodlight Data

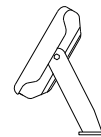
Field Angles:

- Horizontal 55°
- Vertical 57°

NEMA Type:

- Horizontal 4H
- Vertical 4V

Luminaire Orientation:



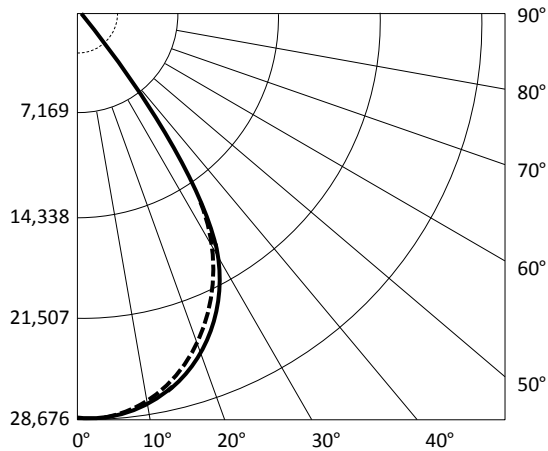
JGMPAL 240-280

240-280 Watt, Premium Multi-Purpose LED Area Luminaire



PHOTOMETRIC DATA – NEMA Floodlight Distributions (continued)

JGMPAL 240-4K-MW (30,937 Lumens, Medium Wide)



Maximum Candela = 28,676

— Horizontal
- - - Vertical

NEMA Floodlight Data

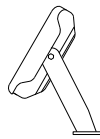
Field Angles:

- Horizontal 84°
- Vertical 84°

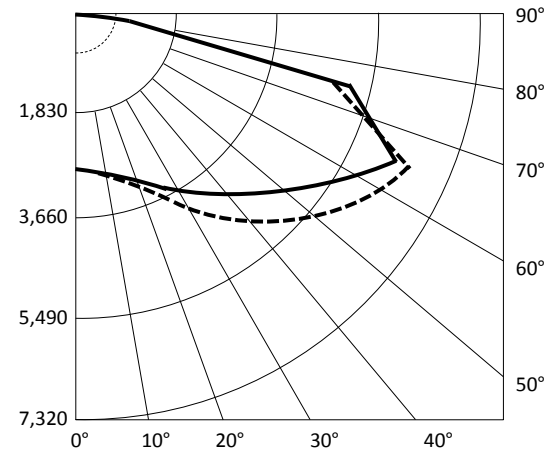
NEMA Type:

- Horizontal 5H
- Vertical 5V

Luminaire Orientation:



JGMPAL 240-4K-VW (27,944 Lumens, Very Wide)



Maximum Candela = 7,320

— Horizontal
- - - Vertical

NEMA Floodlight Data

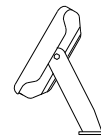
Field Angles:

- Horizontal 164°
- Vertical 173°

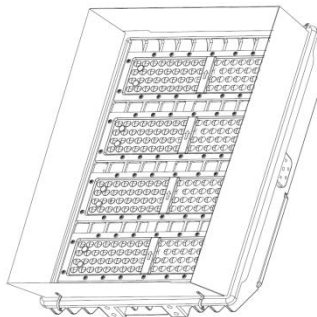
NEMA Type:

- Horizontal 7H
- Vertical 7V

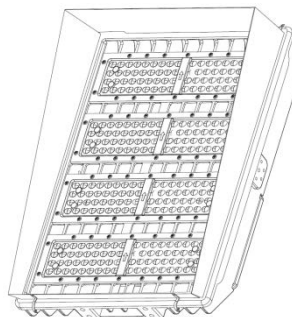
Luminaire Orientation:



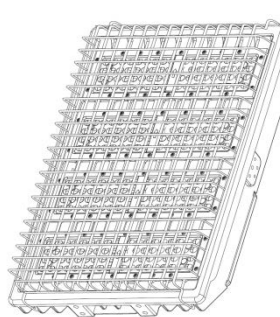
SHIELDS, WIRE GUARDS & NEMA PHOTOCELL INSTALLATION KIT



Full Shield
(JGMPALPRO240/280 -FGS)

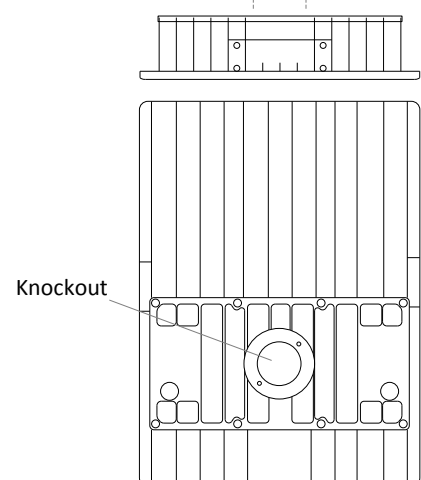
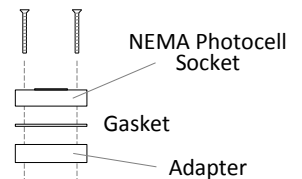


Half Shield
(JGMPALPRO240/280 -HGS)

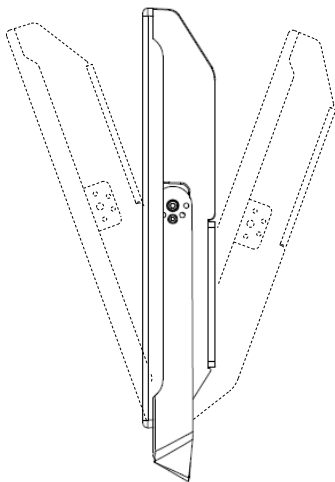
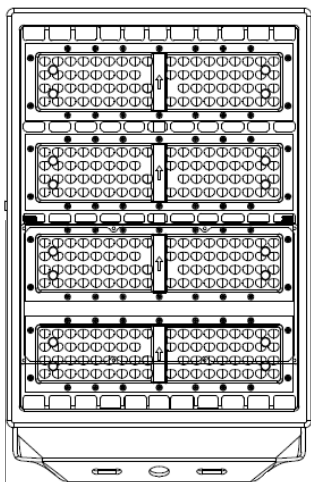


Wire Guard
(JGMPALPRO240/280 -WG)

NEMA Photocell Installation Kit (JGMPALPRO -PCKIT-80/280)

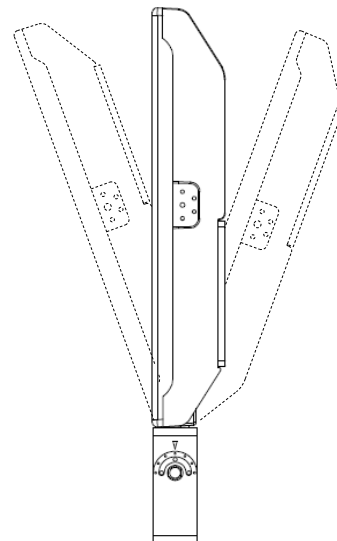
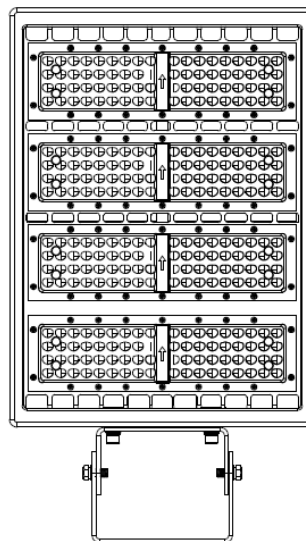


MOUNTING ACCESSORIES



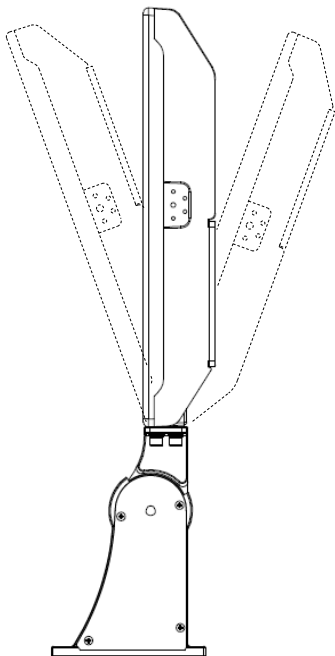
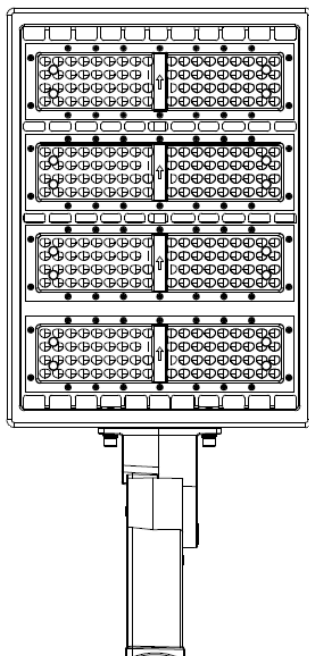
Yoke Mount

JGMPAL-YK-240/280



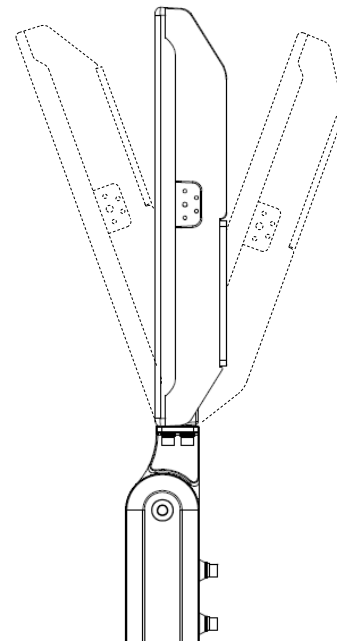
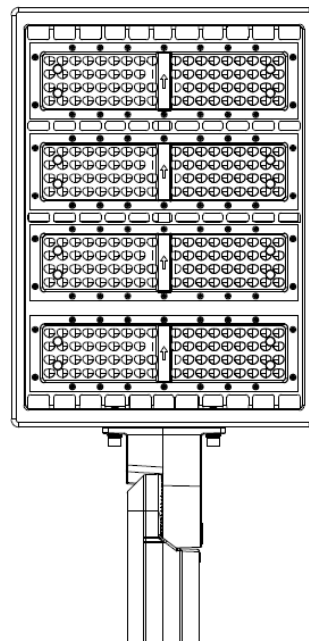
Trunnion Mount

JGMPAL-TR-80/280



Adjustable Arm Mount

JGMPAL-ARM-80/280



Slip-Fitter Mount

JGMPAL-SF-80/280

All mounting accessories are adjustable up to 90° in both directions.