

MPL

IP66 | IK09 | WET

3G
Vibration
RatedDLC
PREMIUM

FCC

cULus

MULTIPURPOSE AREA LIGHT

- **MPL** series is a complete family of low profile, multipurpose area luminaires that provide an easy solution for most outdoor illumination applications.

- ANSI 4000K, 5000K CCT, >80 CRI.

- **LUMENS: 80-140W:** 9,800 to 18,400 lumens
240-280W: 27,900 to 36,500 lumens

- **EFFICACY:** Up to 118 lm/W.

- **PROJECTED LUMEN MAINTENANCE:**
L70 @ >54,000 hrs

- **OPERATING TEMP:**
-4°F to 113°F (-20°C to 45°C)



APPLICATION: The **MPL** is ideal for walkways, building complexes, landscape, facades, monuments, security, signage, loading docks, and a wide variety of other large, general site lighting applications.

CONFIGURATIONS

SERIES	MODEL ¹	COLOR TEMP	INPUT	MOUNTING	OPTIONS
MPL	80	WT40 (4000K)	120-277V	YM (yoke mount)	FGS (full glare shield)
	100	WT50 (5000K)		TR (trunnion)	HGS (half glare shield)
	140			ARM (arm)	WG (wireguard)
	240			SF (slip-fitter)	PCKIT ² (photocell kit)
	280			WM (wall mount)	T5 (type 5 distribution)
				WM90 (90° wall mount)	
				BH-D (double bullhorn)	
				BH-T (triple bullhorn)	
				BH-Q (quad bullhorn)	

NOTE 1: Type 3 distribution is standard.

NOTE 2: NEMA photocell installation kit provides watertight photocell attachment to driver enclosure clover.

TECHNICAL INFORMATION

EXTERNAL:

- Die-cast aluminum housing with durable, dark bronze powder coat finish, > 2 mm on all surfaces.
- Heat resistant polycarbonate lens.
- Fully gasketed for IK09 impact resistance and IP66 rating.
- Driver enclosure is sealed with a water-tight, silicon rubber gasket.

ELECTRICAL:

- Universal 120-277 AC voltage (50-60Hz) is standard.
- Total harmonic distortion < 20%.

OPTIONAL:

- Half glare shield, Full glare shield, wire guard.

EFFECTIVE PROJECTED AREAS (EPA):

80-140W:

- Front = 0.24 s.f.
- Side = 0.29 s.f.
- Face = 1.10 s.f.

240-280W:

- Front = 0.32 s.f.
- Side = 0.45 s.f.
- Face = 1.91 s.f.

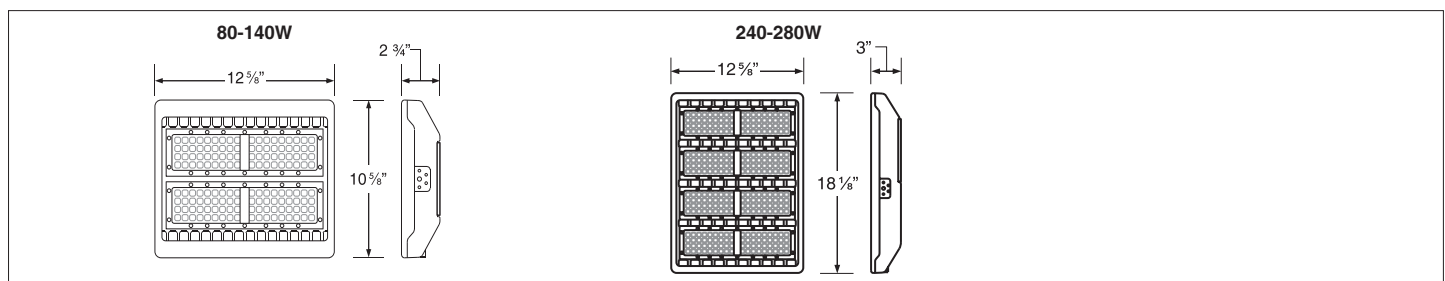
MOUNTING:

- Multiple mounting options include yoke (YM), trunnion (TM), arm (AM), slip fitter (SM) and wall mount (WM).
- Easy installation in new construction or retrofit applications.

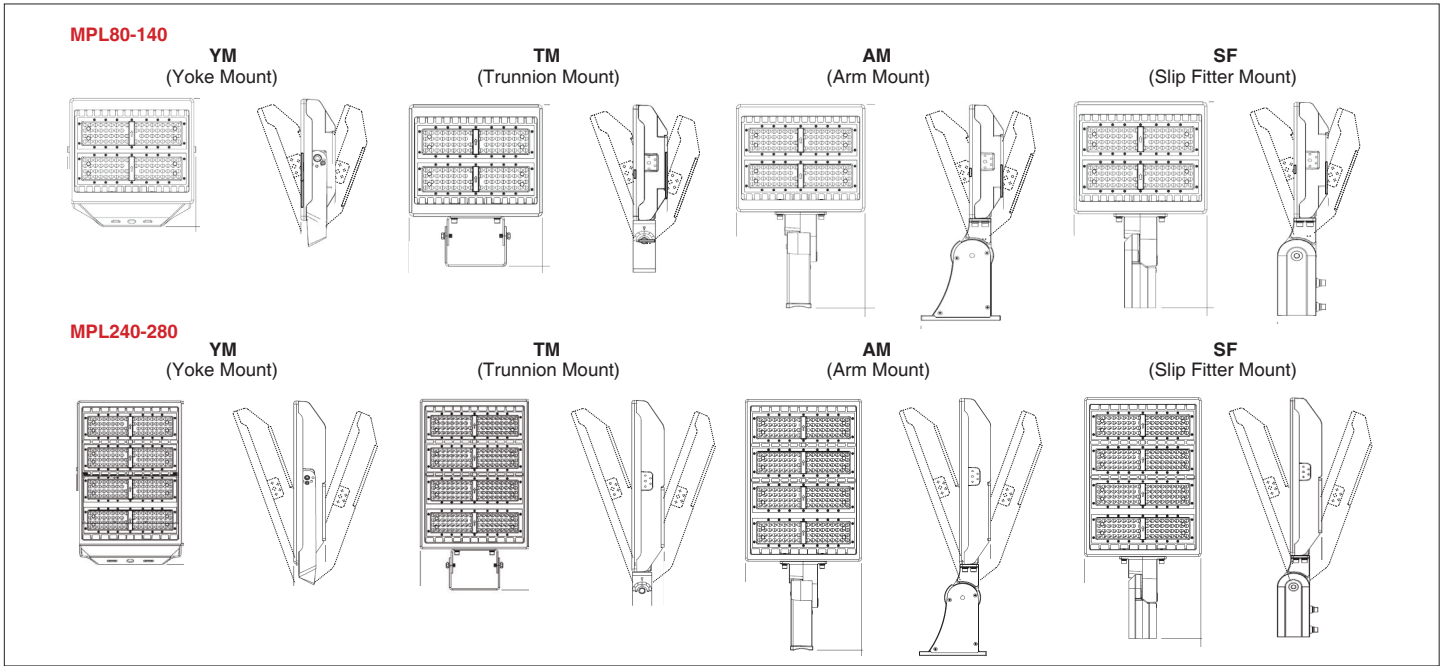
WEIGHT: **80W:** 8.2 lbs / 3.71 kg
100W: 10.8 lbs / 4.89 kg
140W: 11 lbs / 4.98 kg
240W: 11.7 lbs / 5.30 kg
280W: 11.9 lbs / 5.39 kg

WARRANTY: 5 year warranty, see website for full warranty details.

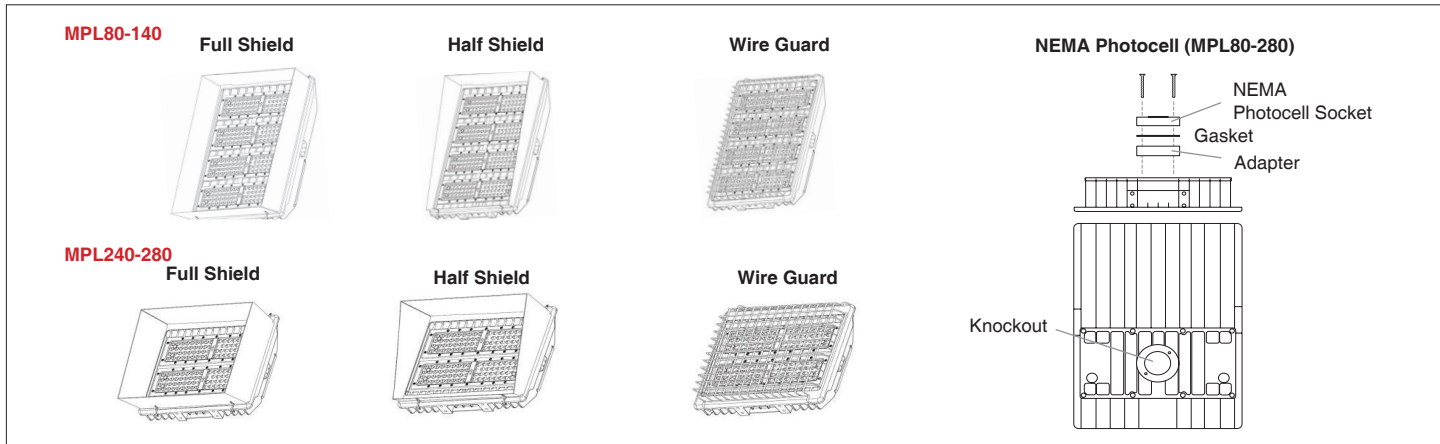
DIMENSIONS



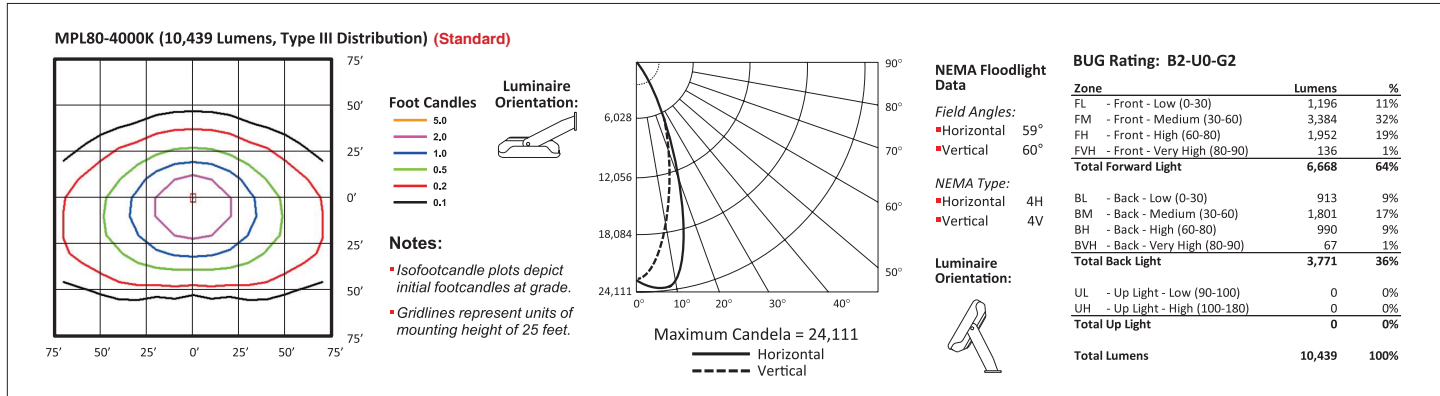
MOUNTING OPTIONS



SHIELDS, WIRE GUARDS & NEMA PHOTOCELL INSTALLATION KIT

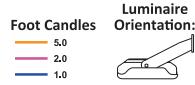
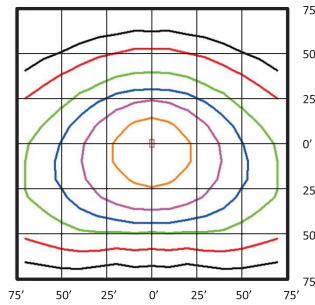


PHOTOMETRICS

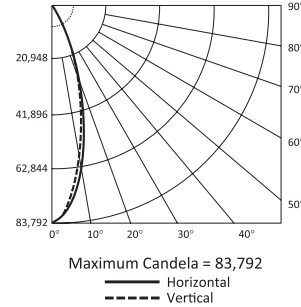


PHOTOMETRICS

MPL240-4000K (29,589 Lumens, Type III Distribution) (Standard)

**Notes:**

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

**NEMA Floodlight Data**

Field Angles:

- Horizontal 55°
- Vertical 57°

NEMA Type:

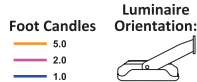
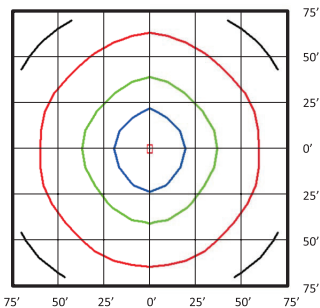
- Horizontal 4H
- Vertical 4V

Luminaire Orientation:

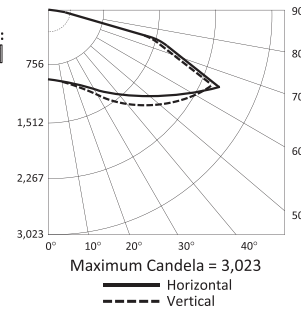
**BUG Rating: B4-U0-G4**

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%

MPL80-4000K (9,816 Lumens, Type V Distribution)

**Notes:**

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

**NEMA Floodlight Data**

Field Angles:

- Horizontal 156°
- Vertical 172°

NEMA Type:

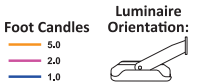
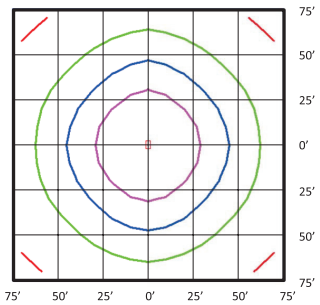
- Horizontal 7H
- Vertical 7V

Luminaire Orientation:

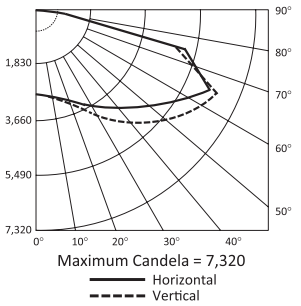
**BUG Rating: B3-U0-G3**

Zone	Lumens	%
FL - Front - Low (0-30)	456	5%
FM - Front - Medium (30-60)	1,929	20%
FH - Front - High (60-80)	2,319	24%
FVH - Front - Very High (80-90)	266	3%
Total Forward Light	4,970	51%
BL - Back - Low (0-30)	449	5%
BM - Back - Medium (30-60)	1,852	19%
BH - Back - High (60-80)	2,250	23%
BVH - Back - Very High (80-90)	295	3%
Total Back Light	4,846	49%
UL - Up Light - Low (90-100)	0	0%
UH - Up Light - High (100-180)	0	0%
Total Up Light	0	0%
Total Lumens	9,816	100%

MPL240-4000K (27,944 Lumens, Type V Distribution)

**Notes:**

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

**NEMA Floodlight Data**

Field Angles:

- Horizontal 164°
- Vertical 173°

NEMA Type:

- Horizontal 7H
- Vertical 7V

Luminaire Orientation:

**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%

ENERGY CHART

MODEL	CONSUMPTION WATTAGE	COLOR TEMP	EFFICACY	INPUT CURRENT			LUMEN OUTPUT	CRI	L70 (hrs.)
				120V	240V	277V			
MPL80-WT40	80W	4000K	121 lm/W	0.68	0.34	0.29	9816	>80	54,000
MPL80-WT50	80W	5000K	123 lm/W	0.68	0.34	0.29	10008	>80	54,000
MPL100-WT40	100W	4000K	117 lm/W	0.84	0.42	0.36	11834	>80	54,000
MPL100-WT50	100W	5000K	119 lm/W	0.84	0.42	0.36	12084	>80	54,000
MPL140-WT40	140W	4000K	116 lm/W	1.18	0.59	0.51	16438	>80	54,000
MPL140-WT50	140W	5000K	118 lm/W	1.18	0.59	0.51	16687	>80	54,000
MPL240-WT40	240W	4000K	117 lm/W	1.99	1.00	0.86	27944	>80	54,000
MPL240-WT50	240W	5000K	118 lm/W	1.99	1.00	0.86	28410	>80	54,000
MPL280-WT40	280W	4000K	116 lm/W	2.33	1.16	1.01	32546	>80	54,000
MPL280-WT50	280W	5000K	118 lm/W	2.33	1.16	1.01	32956	>80	54,000