

FLOOD LIGHT(MFD12)



DESCRIPTION

MFD12 is a 36-in-1 powerful LED flood light. It is designed to be a versatile product with simple lines. It not only provides three selectable beam angles, but also 4 levels of lumen output and 3 selectable CCTs are available, which greatly improves the flexibility of the product and effectively reduces the number of SKUs and the difficulty of selection. MFD12 also provides a variety of installation methods, making it an ideal choice for a variety of general applications. It is suitable for display products, lighting corridors, building exteriors, billboards and other building floodlighting, as well as landscape lighting in parks, squares, playgrounds and other places.

SPECIFICATION FEATURES

Construction

- As the main part of the lamp, die-cast aluminum provides excellent heat dissipation management, effectively prolonging the life of the lamp and improving the efficiency of the LED.
- Fully sealed tempered glass to extend the durability of the fixture.
- The housing is completely sealed, providing excellent protection against moisture and environmental contaminants.
- Low profile, 1.5G vibration rated compact design minimizes wind load requirements.

Optics

- Expandable lumen package from 1,640 to 21,960 lumens.
- There are three selectable beam angles of 90°, 75°, 55° and a very wide/medium wide/wide light range.
- Precision designed individual optical lenses provide the best combination of vertical and horizontal lighting for better uniformity while increasing visual comfort.
- The heat-resistant and impact-resistant toughened glass maximizes light extraction while obtaining a great night appearance.

LED Module

- Light engines are available in color selectable version, the CCT can be changed to three CCTs (3500K, 4000K, 5000K).
- CRI ≥ 80.

Electrical

- Universal 120-277V AC or 277-480V AC input voltage.
- 0-10V dimming driver with 10%-100% dimming range.
- PF > 0.9, THD < 15%.
- Each model can be selectable four watts : 100%, 80%, 60%, 40%.
- Operating temperature range: -40°C to +45°C (-40°F to +113°F).

Control

- Photocell optional.

Installation

- 1/2" NPS Knuckle, Slipfitter, Trunnion and Yoke are all available.

Lifespan

- Estimated 50,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.



30W

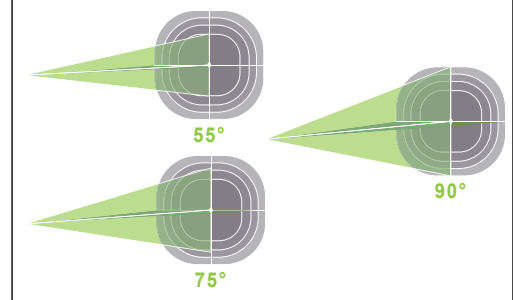


60W&90W



120W&150W

PHOTOMETRICS



Certifications

- UL CUL wet location listed.
- DesignLights Consortium™ Qualified.
Note: DesignLights Consortium™ Qualified and classified for DLC Premium (all lumen packages), refer to www.designlights.org for details.

Warranty

- Five-year limited warranty.

Note

- Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C (±5°C). Specifications subject to change without notice.

STRUCTURAL DESIGN

Built-in dusk-to-dawn photocell
Ensures that our floodlights only turn on when darkness is detected. That helps the fixture last longer — and saves money over that long life. You can turn the photocell on or off with a simple dip switch.



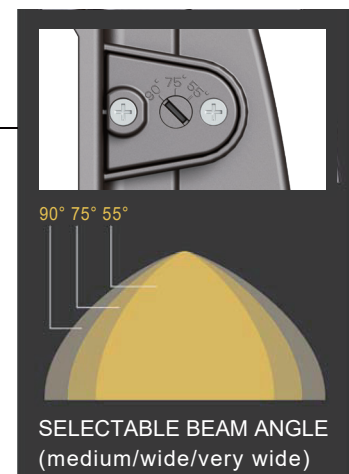
CCT AND WATTAGE FIELD SELECTABLE

This fixture features selectable lumen output and color temperature, allowing on-site adjustments to match specific lighting needs.

Wattage selection range:

30W-24W-18W-12W / 60W-48W-36W-24W
90W-72W-54W-36W / 120W-96W-72W-48W
150W-120W-90W-60W

CCT selectable: 3000K, 4000K, 5000K.



SELECTABLE BEAM ANGLE
(medium/wide/very wide)

PERFORMANCE DATA

MFD12 30W																			
SETTING	SYSTEM WATTS	3000K(80CRI)						4000K(80CRI)						5000K(80CRI)					
		90°/6H6V		75°/6H6V		55°/5H5V		90°/6H6V		75°/6H6V		55°/5H5V		90°/6H6V		75°/6H6V		55°/5H5V	
		LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)
MFD12 30W	30W	4080	136	3870	129	3720	124	4500	150	4260	142	4140	138	4200	140	4020	134	3870	129
	24W	3400	142	3210	134	3070	128	3720	155	3520	147	3400	142	3480	145	3280	137	3210	134
	18W	2640	147	2460	137	2370	132	2860	159	2710	151	2620	146	2680	149	2550	142	2460	137
	12W	1800	150	1710	143	1640	137	1990	166	1870	156	1820	152	1870	156	1770	148	1710	143

MFD12 60W																			
SETTING	SYSTEM WATTS	3000K(80CRI)						4000K(80CRI)						5000K(80CRI)					
		90°/6H6V		75°/6H6V		55°/5H5V		90°/6H6V		75°/6H6V		55°/5H5V		90°/6H6V		75°/6H6V		55°/5H5V	
		LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)
MFD12 60W	60W	8250	138	7740	129	7430	124	9130	152	8500	142	8250	138	8560	143	8060	134	7740	129
	48W	6830	142	6420	134	6150	128	7560	158	7040	147	6830	142	7090	148	6680	139	6420	134
	36W	5310	148	4990	139	4790	133	5880	164	5480	152	5310	148	5520	153	5190	144	4990	139
	24W	3690	154	3470	145	3330	139	4090	171	3810	159	3690	154	3830	160	3610	151	3470	145

MFD12 90W																			
SETTING	SYSTEM WATTS	3000K(80CRI)						4000K(80CRI)						5000K(80CRI)					
		90°/6H6V		75°/6H6V		55°/5H5V		90°/6H6V		75°/6H6V		55°/5H5V		90°/6H6V		75°/6H6V		55°/5H5V	
		LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)
MFD12 90W	90W	12000	133	11620	129	11150	124	13280	148	12750	142	12380	138	12460	138	12090	134	11620	129
	72W	9960	138	9650	134	9260	129	11030	153	10590	147	10280	143	10340	144	10040	140	9650	134
	54W	7690	143	7450	138	7150	132	8520	158	8180	152	7940	147	7990	148	7750	144	7450	138
	36W	5350	149	5180	144	4970	138	5930	165	5690	158	5520	154	5560	155	5400	150	5180	144

MFD12 120W																			
SETTING	SYSTEM WATTS	3000K(80CRI)						4000K(80CRI)						5000K(80CRI)					
		90°/6H6V		75°/6H6V		55°/5H5V		90°/6H6V		75°/6H6V		55°/5H5V		90°/6H6V		75°/6H6V		55°/5H5V	
		LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)
MFD12 120W	120W	16140	135	15740	131	15100	126	17860	149	17270	144	16770	140	16750	140	16380	137	15750	131
	96W	13540	141	13210	138	12680	132	14990	156	14500	151	14070	147	14060	147	13740	143	13210	138
	72W	10460	145	10200	142	9790	136	11580	161	11200	156	10870	151	10860	151	10620	148	10210	142
	48W	7280	152	7100	148	6820	142	8060	168	7800	162	7570	158	7560	158	7390	154	7110	148

MFD12 150W																			
SETTING	SYSTEM WATTS	3000K(80CRI)						4000K(80CRI)						5000K(80CRI)					
		90°/6H6V		75°/6H6V		55°/5H5V		90°/6H6V		75°/6H6V		55°/5H5V		90°/6H6V		75°/6H6V		55°/5H5V	
		LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)	LUMENS (lm)	LPW (lm/W)
MFD12 150W	150W	19840	132	19530	130	18700	125	21960	146	21430	143	20450	136	20600	137	20320	135	19200	128
	120W	16640	139	16370	136	15450	129	18410	153	17970	150	17150	143	17270	144	17040	142	16100	134
	90W	12890	143	12680	141	1190	133	14270	159	13920	155	13290	148	13380	149	13200	147	12470	139
	60W	8830	147	8680	145	8200	137	9770	163	9530	159	9100	152	9160	153	9040	151	8540	142

MULTIPLE MOUNTING OPTIONS

The Single fixture can be compatible with different installation methods. For example: simply remove the Knuckle joint and install the Trunnion bracket, without the need for any additional waterproof measures.



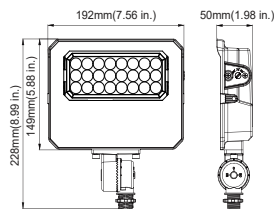
ELECTRICAL DATA

Number Of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	450	30	120	0.25
		30	208	0.14
		30	240	0.13
		30	277	0.11
1	1060	60	120	0.50
		60	208	0.29
		60	240	0.25
		60	277	0.22
1	810	90	120	0.75
		90	208	0.43
		90	240	0.38
		90	277	0.32
		90	347	0.26
		90	480	0.19
1	510	120	120	1.00
		120	208	0.58
		120	240	0.50
		120	277	0.43
		120	347	0.35
		120	480	0.25
1	580	150	120	1.25
		150	208	0.72
		150	240	0.63
		150	277	0.54
		150	347	0.43
		150	480	0.31

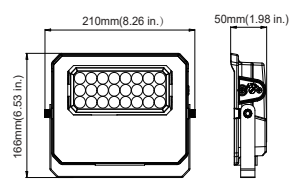
DIMENSION

Unit: mm/inch

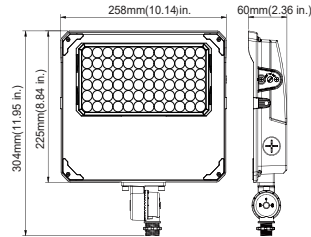
30W(Knuckle Mount)



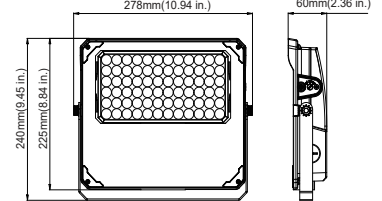
30W(Trunnion Mount)



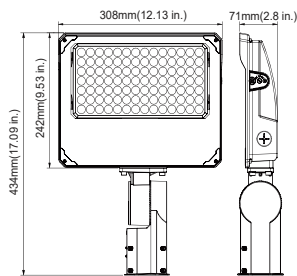
60W&90W(Knuckle Mount)



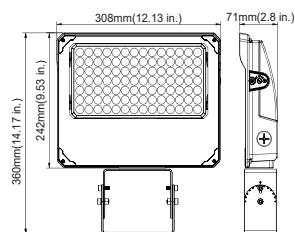
60W&90W(Trunnion Mount)



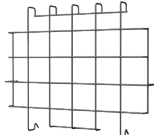
120W&150W(Slipfitter Mount)



120W&150W(Yoke Mount)



ACCESSORIES(Optional)

	
Wire Guard	Knuckle Assembly Supporter

ORDERING GUIDE

Example: MFD12 60W 27V DDK YYYYYY

Fixture Type	Wattage	Voltage	CCT	Finish	Photocell	CCT and Wattage Selectable	Mounting	Beam Angle	Internal Code
MFD12 Flood Light series	30W 30Watts 60W 60Watts 90W 90Watts 120W 120Watts 150W 150Watts	27V 120-277V 48V⁴ 277-480V	DDK³ Field-selectable color temperature	D Dark Bronze B Black W White	P With Photocell	AD With selectment dial	TR¹ Trunnion KN¹ Knuckle YK² Yoke SP² Slipfitter	Blank Seletable beam angle	Blank Alphanumeric

Note : 1. 30W/60W/90W only suitable for knuckle and trunnion mount.

2. 120W/150W only suitable for slipfitter and yoke mount.

3. CCT selectable (3000K/4000K/5000K).

4. 277-480V only suitable for 90W, 120W, 150W.