

FLOOD LIGHT(MFD08)



DESCRIPTION

The MFD08 luminaire is a high performance LED lighting solution designed with optical versatility and a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, watertight LED driver compartment and high performance aluminum heat sinks. Markets include parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways.



SPECIFICATION FEATURES

Construction

- Housing, electrical compartment and fitter are all made from die case aluminum that is pre-treated and powder-coated to meet the most rugged industry standards.
- Door frame features an integral accessory channel for the mounting of optional light control accessories.
- Vented housing isolates LED module from driver, maximizing product life and performance
- Door frame seals to housing with a continuous extruded silicone gasket.

Optics

- Optics(NEMA Type): 7H*6V or 4H*4V(4H*4V only suitable for 135W, 200W, 250W,350W).
- Scalable Lumen Packages from 1,950 to 48,000 Lumens.
- Provides the best combination of vertical and horizontal illumination while reducing light behind the poles.
- High performance acrylic optic securely attached to internal heat sink for maximum thermal dissipation.

Electrical

- Universal 120-277 VAC or 347-480 VAC input voltage.
- Both drivers have a power factor >90%, THD <20%, and an expected life of 100,000 hours.

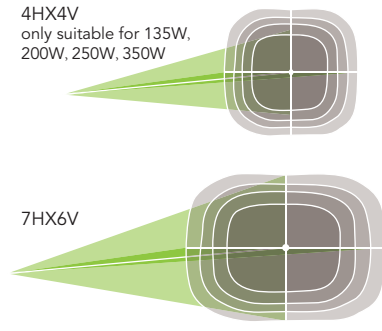
Lifespan

- Estimated 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

Warranty

- Five-year warranty.

PHOTOMETRICS



ACCESSORIES

Photocell

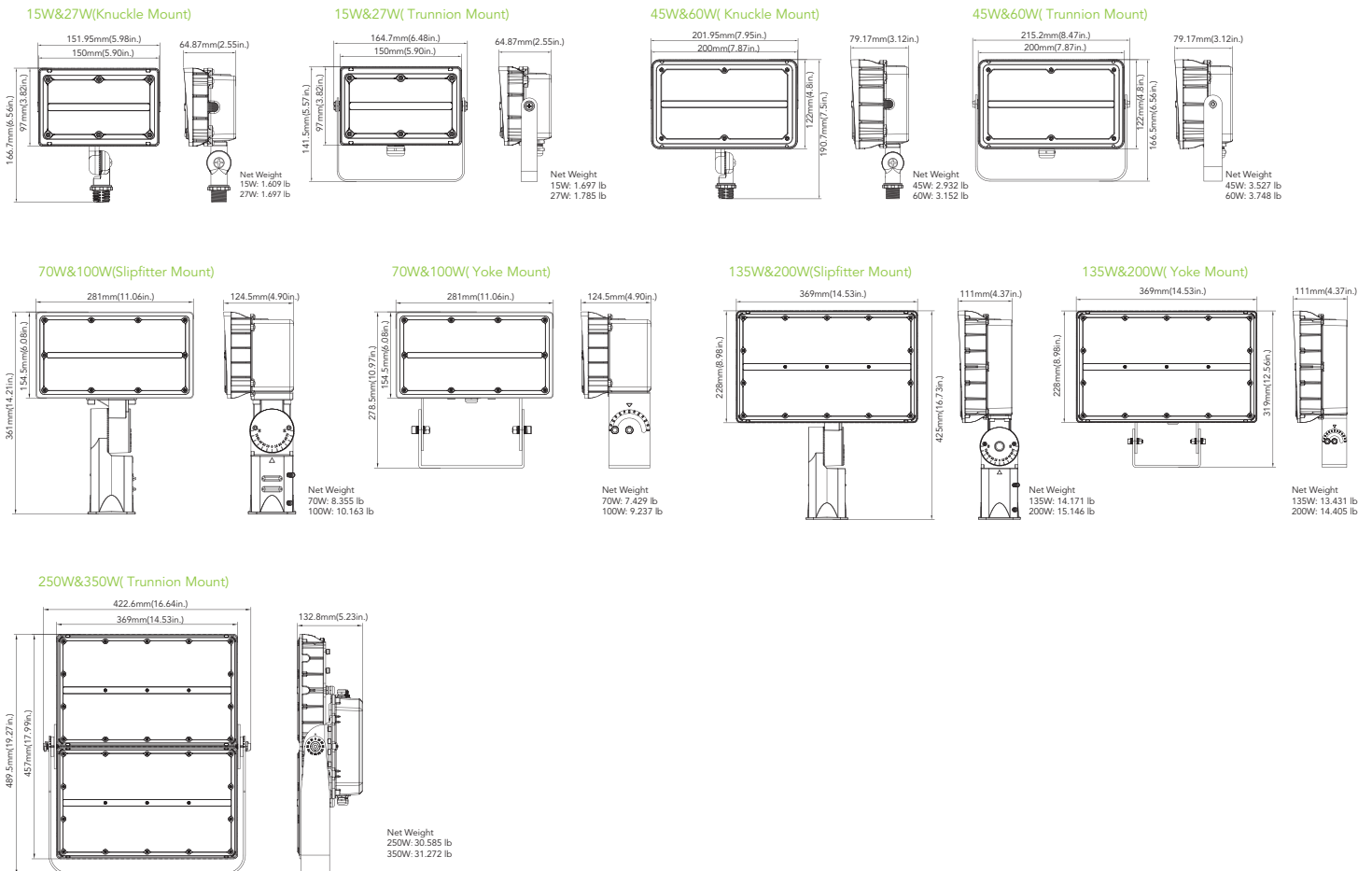
No. PC-JL-120-277V

USE: Photocell is field installed or pre-installed in factory by requesting



DIMENSIONS

unit: mm/inch



PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	DIST. TYPE	CRI	LUMENS (3000K)	LPW (3000K)	LUMENS (4000K)	LPW (4000K)	LUMENS (5000K)	LPW (5000K)
15W	120-277V	7Hx6V	70	1950lm	130 lm/W	2000lm	133 lm/W	2000lm	133 lm/W
27W	120-277V	7Hx6V	70	3500lm	130 lm/W	3600lm	133 lm/W	3600lm	133 lm/W
45W	120-277V	7Hx6V	70	5550lm	123 lm/W	5650lm	126 lm/W	5650lm	126 lm/W
60W	120-277V	7Hx6V	70	7250lm	121 lm/W	7450lm	124 lm/W	7450lm	124 lm/W
60W	347-480V	7Hx6V	70	7500lm	125 lm/W	7600lm	127 lm/W	7600lm	127 lm/W
70W	120-277V	7Hx6V	70	8700lm	124 lm/W	8900lm	127 lm/W	8900lm	127 lm/W
70W	347-480V	7Hx6V	70	9100lm	130 lm/W	9300lm	133 lm/W	9300lm	133 lm/W
90W	347-480V	7Hx6V	70	12000lm	133 lm/W	12400lm	138 lm/W	12400lm	138 lm/W
100W	120-277V	7Hx6V	70	13100lm	131 lm/W	13300lm	133 lm/W	13300lm	133 lm/W
135W	120-277V/347-480V	4Hx4V	70	17500lm	130 lm/W	18000lm	133 lm/W	18000lm	133 lm/W
200W	120-277V/347-480V	4Hx4V	70	25300lm	127 lm/W	26200lm	131 lm/W	26200lm	131 lm/W
135W	120-277V/347-480V	7Hx6V	70	17500lm	130 lm/W	18000lm	133 lm/W	18000lm	133 lm/W
200W	120-277V/347-480V	7Hx6V	70	25300lm	127 lm/W	26200lm	131 lm/W	26200lm	131 lm/W
250W	120-277V/347-480V	4Hx4V	70	33700lm	135 lm/W	34500lm	138lm/W	34500lm	138lm/W
250W	120-277V/347-480V	7Hx6V	70	33700lm	135 lm/W	34500lm	138lm/W	34500lm	138lm/W
350W	120-277V/347-480V	4Hx4V	70	46900lm	134 lm/W	48000lm	137 lm/W	48000lm	137 lm/W
350W	120-277V/347-480V	7Hx6V	70	46900lm	134 lm/W	48000lm	137 lm/W	48000lm	137 lm/W

ELECTRICAL DATA

Number Of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	250	15	120	0.13
		15	208	0.07
		15	240	0.06
		15	277	0.05
1	430	27	120	0.23
		27	208	0.13
		27	240	0.11
		27	277	0.10
1	770	45	120	0.38
		45	208	0.22
		45	240	0.19
		45	277	0.16
1	920	60	120	0.50
		60	208	0.29
		60	240	0.25
		60	277	0.22
1	1600	60	347	0.17
		60	480	0.13
1	1750	70	120	0.58
		70	208	0.34
		70	240	0.29
		70	277	0.25
1	1850	70	347	0.20
		70	480	0.15
1	2600	100	120	0.83
		100	208	0.48
		100	240	0.42
		100	277	0.36
2	2400	90	347	0.26
		90	480	0.19
2	3500	135	120	1.13
		135	208	0.65
		135	240	0.56
		135	277	0.49
		135	347	0.39
		135	480	0.28
2	5000	200	120	1.67
		200	208	0.96
		200	240	0.83
		200	277	0.72
		200	347	0.58
		200	480	0.42
1	6500	250	120	2.08
		250	208	1.20
		250	240	1.04
		250	277	0.90
		250	347	0.72
1	5600	250	480	0.52
		350	120	2.92
		350	208	1.68
		350	240	1.46
		350	277	1.26
		350	347	1.01
1	5600	350	480	0.73

EPA

Item							
	1	2 @90°	2 @120°	2@180°	3 @90°	3 @120°	4 @90°
70W/100W	0.2885	0.6097	0.7475	0.577	0.8982	0.8196	0.8982
135W/200W	0.3868	0.8125	0.9973	0.7736	1.1993	1.0874	1.1993
250W/350W	0.536	1.061	1.278	1.072	1.597	1.803	1.597

ORDERING GUIDE

Example: MFD0845W27V50KYYYYYY

Fixture Type	Wattage	Voltage	CCT	Dimmable	Finish	Photocell (Option)	Nema	Mounting	Internal Code
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
MFD08 Flood Light series	15 15W 27 27W 45 45W 60 60W 70 70W 90 90W 100 100W 135 135W 200 200W 250 250W 350 350W	27V 120-277V 48V 347-480V	30K 3000K 40K 4000K 50K 5000K	D 1-10VDIM Blank NO DIM	D Dark Bronze B Black W White	P0 With Photocell Blank Without Photocell	B76 7HX6V B44 4HX4V	TR Trunnion Mount KN Knuckle Mount YK Yoke SP Slipfitter Mount	Blank Alphanumeric

Note: 1. 15W,27W,45W,60W only suitable for non dimming.
 2. 70W with dimming and non dimming options.
 3. 90W,100W,135W,200W,250W,350W only suitable for dimming.
 4. Only 60W,70W,90W,135W,200W,250W,350W suitable for 347-480V input voltage.
 5. 4H*4V only suitable for 135W, 200W, 250W, 350W

MOUNTING

1/2" Knuckle Mount (15W/27W/45W/60W)



Trunnion Mount (15W/27W/45W/60W/250W/350W)



Yoke Mount(70W/100W/135W/200W)



Slipfitter Mount(70W/100W/135W/200W)



DLC Model NO.

SYSTEM WATTS	VOLTAGE	CCT	DLC NO.	DLC Classification
15W	120-277V	3000K	MFD0815W27V30K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		3500K	MFD0815W27V35K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		4000K	MFD0815W27V40K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		5000K	MFD0815W27V50K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
27W	120-277V	3000K	MFD0827W27V30K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		3500K	MFD0827W27V35K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		4000K	MFD0827W27V40K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		5000K	MFD0827W27V50K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
45W	120-277V	3000K	MFD0845W27V30K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		3500K	MFD0845W27V35K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		4000K	MFD0845W27V40K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		5000K	MFD0845W27V50K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
60W	120-277V	3000K	MFD0860W27V30K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		3500K	MFD0860W27V35K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		4000K	MFD0860W27V40K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		5000K	MFD0860W27V50K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
60W	347-480V	3000K	MFD0860W48V30K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		3500K	MFD0860W48V35K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		4000K	MFD0860W48V40K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
		5000K	MFD0860W48V50K[D,B,W][PO,Blank]B76[KN,TR][X,Blank]	Premium
70W	120-277V	3000K	MFD0870W27V30K[D,B,W][PO,Blank]B76[YK,TR][X,Blank]	Premium
		3500K	MFD0870W27V35K[D,B,W][PO,Blank]B76[YK,TR][X,Blank]	Premium
		4000K	MFD0870W27V40K[D,B,W][PO,Blank]B76[YK,TR][X,Blank]	Premium
		5000K	MFD0870W27V50K[D,B,W][PO,Blank]B76[YK,TR][X,Blank]	Premium
70W	120-277V	3000K	MFD0870W27V30K[D,B,W][PO,Blank]B76[YK,TR][X,Blank]	Premium
		3500K	MFD0870W27V35K[D,B,W][PO,Blank]B76[YK,TR][X,Blank]	Premium
		4000K	MFD0870W27V40K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		5000K	MFD0870W27V50K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
70W	347-480V	3000K	MFD0870W48V30K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		3500K	MFD0870W48V35K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		4000K	MFD0870W48V40K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		5000K	MFD0870W48V50K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
100W	120-277V	3000K	MFD08100W27V30K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		3500K	MFD08100W27V35K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		4000K	MFD08100W27V40K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		5000K	MFD08100W27V50K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
90W	347-480V	3000K	MFD0890W48V30K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		3500K	MFD0890W48V35K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		4000K	MFD0890W48V40K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		5000K	MFD0890W48V50K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
135W	120-277V/347-480V	3000K	MFD08135W[27V,48V]30K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		3500K	MFD08135W[27V,48V]35K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		4000K	MFD08135W[27V,48V]40K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		5000K	MFD08135W[27V,48V]50K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
200W	120-277V/347-480V	3000K	MFD08200W[27V,48V]30K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		3500K	MFD08200W[27V,48V]35K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		4000K	MFD08200W[27V,48V]40K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium
		5000K	MFD08200W[27V,48V]50K[D,B,W][PO,Blank]B76[YK,SP][X,Blank]	Premium