

Specifications

Construction:

- Rugged one-piece, die-cast aluminum housing with durable dark bronze power coat finish secures the thermally conductive LED panel and electrical chamber
- Low profile, 3G vibration rated compact design minimizes wind load requirements.
- Housing is completely sealed against moisture and environmental contaminants.

Optics:

- Light engines are available in standard 3000K, 4000 K and 5000 K (70 CRI) configurations.
- Scalable Lumen Packages from 5,450 to 40,800 Lumens
- LED drivers are mounted to removable tray assembly for ease of maintenance.
- Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.
- For the ultimate level of spill light control, an optional house-side shield accessory can be field or factory installed.
- The optics can conform to dark sky requirement.
- Optics create consistent distributions with the scalability to meet customized application requirements

Electrical:

- Universal 120-277 VAC or 347-480 VAC input voltage
- Standard with 0-10V dimming driver(s)
- THD: ≤20%
- Power Factor: ≥90%

Controls:

- Optional Photocell

Ambient Temperature:

- Ambient operating temperature -40° C to 45° C (-40° F to 113° F).

Installation:

- Yoke, slipfitter and wall mount are available

Lifespan:

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

Finish:

- It's available in black or optional dark bronze, silvery gray or white.



Black



Dark Bronze



Silver Gray



White



Small Size:
40W/70W/100W

Medium Size:
150W/200W

Large Size:
250W/300W



Warranty:

Mester warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. (For more information visit: <http://www.mesterleds.com/resources/warranty/>)

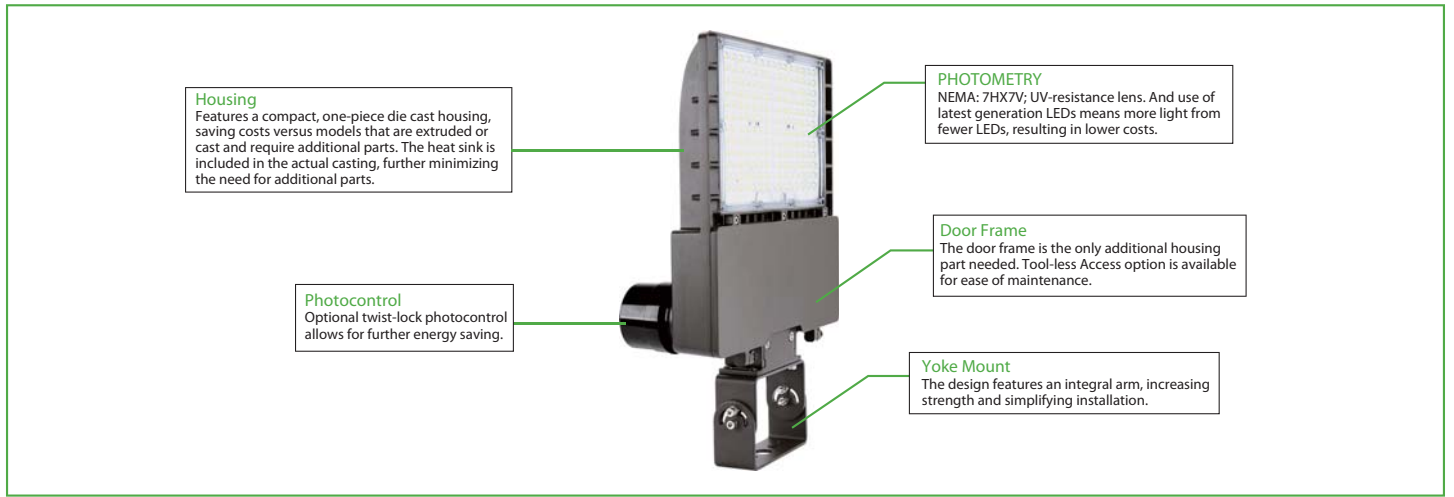
Note:

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.

Applications:

Facade, Wall Washing, Landscape lighting, Poster board lighting, Building lighting.





PERFORMANCE DATA

			4000K(70CRI)		5000K(70CRI)	
SYSTEM WATTS	VOLTAGE	NEMA	LUMENS	LPW	LUMENS	LPW
40W	120-277V	7Hx7V	5600lm	140 lm/W	5720lm	143 lm/W
45W	347-480V	7Hx7V	6120lm	136 lm/W	6210lm	138 lm/W
70W	120-277V	7Hx7V	9730lm	139 lm/W	9800lm	140 lm/W
75W	347-480V	7Hx7V	10200lm	136 lm/W	10350lm	138 lm/W
100W	120-277V	7Hx7V	13800lm	138 lm/W	13900lm	139 lm/W
150W	120-277V	7Hx7V	20500lm	137 lm/W	20800lm	139 lm/W
	347-480V	7Hx7V	21000lm	140 lm/W	21000lm	140 lm/W
200W	120-277V	7Hx7V	25500lm	128 lm/W	26000lm	130 lm/W
	347-480V	7Hx7V	25500lm	128 lm/W	26000lm	130 lm/W
250W	120-277V	7Hx7V	34750lm	139 lm/W	35250lm	141 lm/W
	347-480V	7Hx7V	34750lm	139 lm/W	35250lm	141 lm/W
300W	120-277V	7Hx7V	40500lm	135 lm/W	41000lm	137 lm/W
	347-480V	7Hx7V	41500lm	138 lm/W	42000lm	140 lm/W

ELECTRICAL DATA

Number Of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	980	40	120	0.33
		40	208	0.19
		40	240	0.17
		40	277	0.14
		45	347	0.13
		45	480	0.09
1	1720	70	120	0.58
		70	208	0.34
		70	240	0.29
		70	277	0.25
		75	347	0.22
		75	480	0.16
1	2450	100	120	0.83
		100	208	0.48
		100	240	0.42
		100	277	0.36
1	3900	150	120	1.25
		150	208	0.72
		150	240	0.63
		150	277	0.54
		150	347	0.43
		150	480	0.31
1	5100	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	6400	250	120	2.08
		250	208	1.20
		250	240	1.04
		250	277	0.90
		250	347	0.72
		250	480	0.52
1	6000	300	120	2.50
		300	208	1.44
		300	240	1.25
		300	277	1.08
		300	347	0.86
		300	480	0.63

MOUNTING

- Heavy duty aluminum trunnion easily adapted to many surfaces and allows easy fixture aiming angles.
- Wall Mount available for direct wall mounting and J-box mounting
- Optional for cast aluminum slipfitter mounting adapter

Mounting Options



Slipfitter Mount
An optional cast aluminum mast arm adapter secures fixture head to nominal 2"(2-3/8"O.D. pipe size) horizontal steel tenon arm.

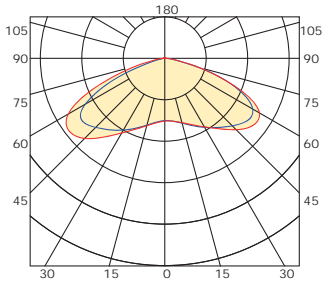


Yoke Mount
Die-cast aluminum trunnion is easily adapted to many surfaces and allows easy fixture aiming angles.



Wall Mount
Wall Mount is easy to install for direct wall mounting with 1/2' conduit wiring or standard J-box mounting

PHOTOMETRICS



DIMENSION

unit: inch/mm

Mounting Option	40W/70W/100W	150W/200W	250W/300W
Slipfitter Mount	 536.14mm(21.106in.) 215mm(8.465in.) 320.89mm(12.638in.) 62.5mm(2.46in.) 56mm(2.2in.) 49mm(1.93in.) Net Weight: 40W: 7.903lb 70W: 8.234lb 100W: 8.653lb	 385mm(15.16in.) 311mm(12.25in.) 600.15mm(23.63in.) 85mm(3.35in.) 62.5mm(2.46in.) 85mm(3.35in.) Net Weight: 150W: 11.629lb 200W: 12.181lb	 807mm(31.77in.) 311mm(12.25in.) 591.7mm(23.3in.) 62.5mm(2.46in.) 56mm(2.2in.) 85mm(3.35in.) Net Weight: 250W: 16.109lb 300W: 17.974lb
Yoke Mount	 433.43mm(17.07in.) 215mm(8.465in.) 320.89mm(12.638in.) 50mm(1.97in.) 62.5mm(2.46in.) 56mm(2.2in.) 51mm(2in.) 95mm(3.74in.) Net Weight: 40W: 7.099lb 70W: 7.429lb 100W: 7.848lb	 385mm(15.16in.) 311mm(12.25in.) 497.44mm(19.58in.) 59mm(2.3in.) 62.5mm(2.46in.) 138mm(5.43in.) Net Weight: 150W: 10.824lb 200W: 11.376lb	 704.25mm(27.73in.) 311mm(12.25in.) 591.7mm(23.3in.) 50mm(1.97in.) 62.5mm(2.46in.) 56mm(2.2in.) 51mm(2in.) 95mm(3.74in.) Net Weight: 250W: 15.304lb 300W: 17.169lb
Wall Mount	 488.47mm(19.232in.) 215mm(8.465in.) 320.89mm(12.638in.) 79mm(3.11in.) 176.91mm(6.96in.) 203mm(7.99in.) 90mm(3.54in.) 62.5mm(2.46in.) 56mm(2.2in.) 165.1mm(6.5in.) Net Weight: 40W: 10.299lb 70W: 10.631lb 100W: 11.049lb	 554.48mm(21.83in.) 385mm(15.16in.) 311mm(12.25in.) 600.15mm(23.63in.) 85mm(3.35in.) 62.5mm(2.46in.) 85mm(3.35in.) 152mm(5.98in.) 122mm(4.8in.) 165.1mm(6.5in.) 203mm(7.99in.) Net Weight: 150W: 14.026lb 200W: 14.577lb	 729.3mm(29.9in.) 311mm(12.25in.) 591.7mm(23.3in.) 77mm(3.03in.) 176.91mm(6.96in.) 203mm(7.99in.) 90mm(3.54in.) 62.5mm(2.46in.) 56mm(2.2in.) 165.1mm(6.5in.) Net Weight: 250W: 18.505lb 300W: 20.371lb

ORDERING GUIDE

Example:MFD07 100W 27V XXK Y Y Y Y Y

Fixture Type	Wattage	Voltage	CCT	CRI	Finish	Photocell (Option)	Nema	Mounting	Surge Protection (Option)
MFD07 Flood Light Series	40 40W 45 45W 70 70W 75 75W 100 100W	27V 120-277V 48V 347-480V	40K 4000K 50K 5000K	B 70CRI	D Dark Bronze B Black W White SG Silver Gray	P0 120-277V Photocell P3 347V Photocell P4 480V Photocell Blank Without Photocell	B77 7Hx7V	YK Yoke Mount SP Slipfitter Mount WM Wall Mount	S Surge protection (Blank) No Surge protection

Note: 1. 100W is limited to 120-277V input only.
 2. The Watt is 40W when the voltage is 120-277V, while when it is 347-480V, the watt is 45W.
 3. The Watt is 70W when the voltage is 120-277V, while when it is 347-480V, the watt is 75W.
 4. While installing photocell on flood light, the horizontal elevation angle should not exceed 15°.

Example:MFD07 150W 27V XXK Y Y Y Y Y

Fixture Type	Wattage	Voltage	CCT	CRI	Finish	Photocell (Option)	Nema	Mounting
MFD07 Flood Light Series	150 150W 200 200W 250 250W 300 300W	27V 120-277V 48V 347-480V	40K 4000K 50K 5000K	B 70CRI	D Dark Bronze B Black W White SG Silver Gray	P0 120-277V Photocell P3 347V Photocell P4 480V Photocell Blank Without Photocell	B77 7Hx7V	YK Yoke Mount SP Slipfitter Mount WM Wall Mount

ADDITIONAL MOUNTING ACCESSORIES

POLE BRACKET • For mounting one fixture on an existing pole

	<p>4\"/></p> <p>No. 4SQ-SP-D Finish: Dark Bronze USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16\"/></p>		<p>4\"/></p> <p>NO. 4SQ-SP-D Finish: Dark Bronze USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8\"/></p>
	<p>5\"/></p> <p>No. 5SQ-SP-D Finish: Dark Bronze USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16\"/></p>		<p>5\"/></p> <p>NO. 5SQ-SP-D Finish: Dark Bronze USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8\"/></p>
	<p>Pole Bracket accessories-Tenon & Yoke Adaptor NO. SP-TR-D Finish: Dark Bronze USE: The 2-3/8\"/></p>		

WALL BRACKET • Attaches to any flat surface • Provides wiring access

Mid-Pole tenon Bracket

	<p>90\"/></p> <p>NO. WM-SP-D Finish: Dark Bronze USE: The 90\"/></p>		<p>2-3/8\"/></p> <p>NO. SQ-SP-D Finish: Dark Bronze USE: 2-3/8\"/></p>
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ADDITIONAL MOUNTING ACCESSORIES

Round External Mount Horizontal Tenon - To mount 2/3/4 fixtures on a existing pole			
	<p>Double 90° Horizontal Tenon Adaptor NO. R60-SP2-90-D Finish:Dark Bronze USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally</p>		<p>Triple 120° Horizontal Tenon Adaptor NO. R60-SP3-120-D Finish:Dark Bronze USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally</p>
	<p>Double 180° Horizontal Tenon Adaptor NO. R60-SP2-180-D Finish:Dark Bronze USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Two fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally</p>		<p>Quad 90° Horizontal Tenon Adaptor NO. R60-SP4-90-D Finish:Dark Bronze USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Four fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally</p>
	<p>Triple 90° Horizontal Tenon Adaptor NO. R60-SP3-90-D Finish:Dark Bronze USE:The Bracket is designed to mount over 2-3/8" (60mm) O.D. vertical tenon. Three fixtures can be mounted to the Round External Mount Horizontal Tenon and adjusted horizontally</p>		

DLC Model NO.

SYSTEM WATTS	VOLTAGE	CCT	DIST. TYPE	DLC NO.	DLC Classification
150W	120-277V	4000K	7Hx7V	MFD07150W27V40KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Premium
		5000K	7Hx7V	MFD07150W27V50KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Premium
	347-480V	4000K	7Hx7V	MFD07150W48V40KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Premium
		5000K	7Hx7V	MFD07150W48V50KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Premium
200W	120-277V	4000K	7Hx7V	MFD07200W27V40KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Standard
		5000K	7Hx7V	MFD07200W27V50KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Standard
	347-480V	4000K	7Hx7V	MFD07200W48V40KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Standard
		5000K	7Hx7V	MFD07200W48V50KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Standard
300W	120-277V	4000K	7Hx7V	MFD07300W27V40KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Premium
		5000K	7Hx7V	MFD07300W27V50KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Premium
	347-480V	4000K	7Hx7V	MFD07300W48V40KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Premium
		5000K	7Hx7V	MFD07300W48V50KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Premium