



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 1-10V 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



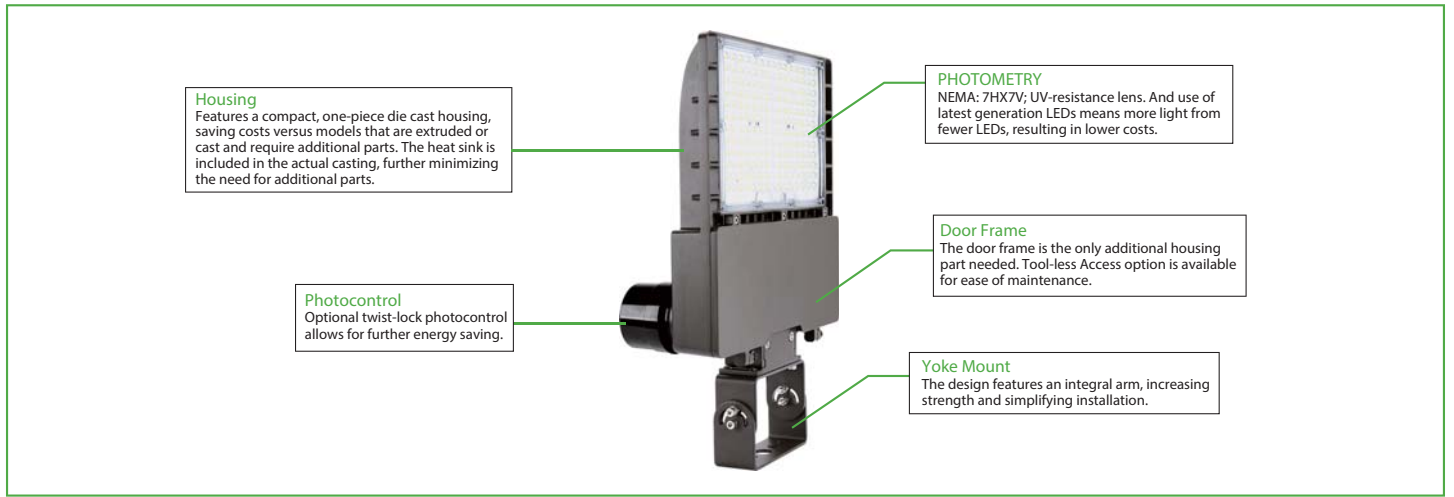
Note:

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 2-3/8" O.D. horizontal steel tenon arm.

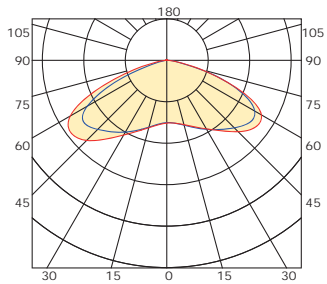


Yoke Mount
Die-cast aluminum trunnion is easily adapted to many surfaces and allows easy fixture aiming angles.



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

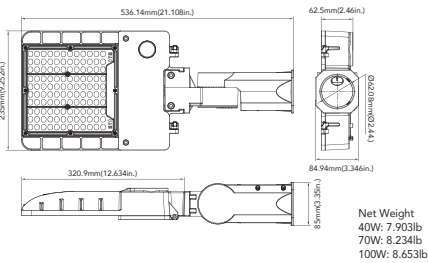
PHOTOMETRICS



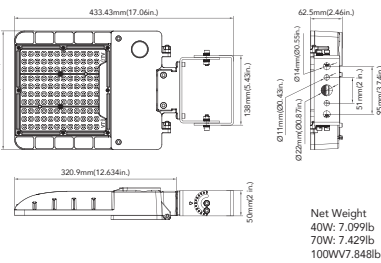
DIMENSION

unit: inch/mm

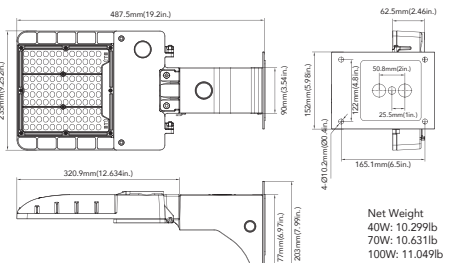
40W/70W/100W (Slipfitter Mount)



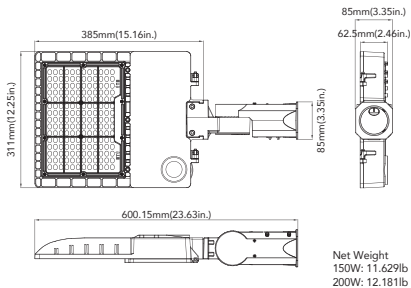
40W/70W/100W (Yoke Mount)



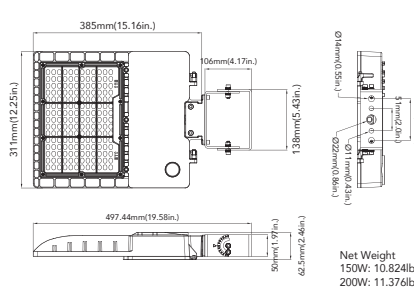
40W/70W/100W (Wall Mount)



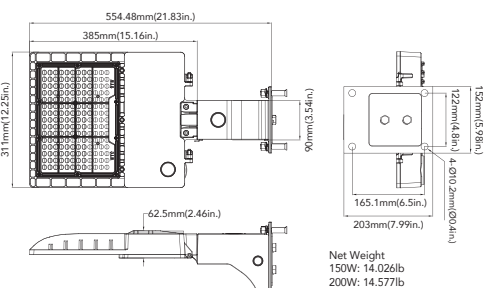
150W/200W (Slipfitter Mount)



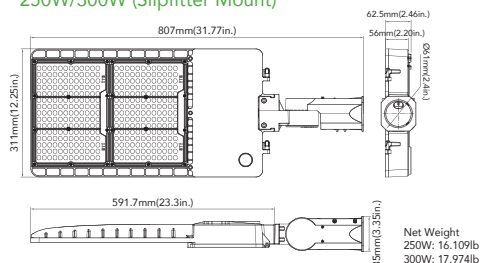
150W/200W (Yoke Mount)



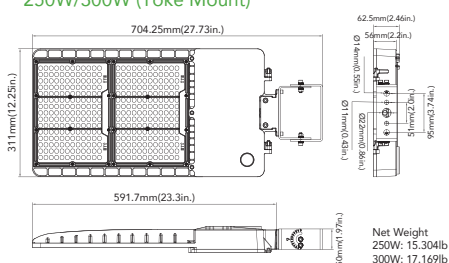
150W/200W (Wall Mount)



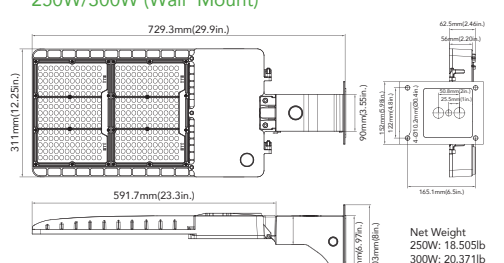
250W/300W (Slipfitter Mount)



250W/300W (Yoke Mount)



250W/300W (Wall Mount)



ORDERING GUIDE

Example: MFD07 100W 27V XXX YYYYYY

Fixture Type	Wattage	Voltage	CCT	CRI	Finish	Photocell (Option)	Nema	Mounting	Surge Protection (Option)	
MFD07 Flood Light Series	40 40W	27V 120-277V	40K 4000K	B 70CRI	D Dark Bronze	P0 120-277V Photocell	B77 7Hx7V	YK Yoke Mount	S Surge protection	
	45 45W		48V 347-480V							50K 5000K
	70 70W									
	75 75W									
	100 100W									

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 XXX YYYYYY

Fixture Type	Wattage	Voltage	CCT	CRI	Finish	Photocell (Option)	Nema	Mounting	
MFD07 Flood Light Series	150 150W	27V 120-277V	40K 4000K	B 70CRI	D Dark Bronze	P0 120-277V Photocell	B77 7Hx7V	YK Yoke Mount	
	200 200W		48V 347-480V						50K 5000K
	250 250W								WM Wall Mount
	300 300W								

ADDITIONAL MOUNTING ACCESSORIES

POLE BRACKET • For mounting one fixture on an existing pole			
	<p>4" Square Pole Mount with 2-3/8" O.D. Tenon NO. 4SQ-SP-D Finish: Dark Bronze USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.</p>		<p>4" Round Pole Mount with 2-3/8" O.D. Tenon NO. 4RQ-SP-D Finish: Dark Bronze USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.</p>
	<p>5" Square Pole Mount with 2-3/8" O.D. Tenon NO. 5SQ-SP-D Finish: Dark Bronze USE: For use with square, non-tapered steel and aluminum poles. Furnished with four 5/16" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.</p>		<p>5" Round Pole Mount with 2-3/8" O.D. Tenon NO. 5RQ-SP-D Finish: Dark Bronze USE: For use with Round, non-tapered steel and aluminum poles. Furnished with three 3/8" hex head stainless-steel bolts. Vertical tenon measures 2-3/8" O.D., and is made of steel tubing. Fixtures mounted to this bracket can be adjusted both vertically and horizontally.</p>
	<p>Pole Bracket Accessories - Angle-Adjustment Adapter NO. SOA-ALDA Finish: Dark Bronze USE: Durable brackets are engineered to provide versatile mounting options. These arms are made from rugged die-cast aluminum. They allow optimal positioning of the light fixture to maximize the lighting effectiveness vertically and horizontally.</p>		<p>Pole Bracket accessories - Tenon & Yoke Adaptor NO. SP-TR-D Finish: Dark Bronze USE: The 2-3/8" OD Tenon Mount Adaptor for Yoke Fixtures is designed to mount MESTER light fixtures that are equipped with a yoke mount onto a 2-3/8" OD tenon. It may be utilized with the Mester Flood Light Series of light fixtures.</p>
WALL BRACKET • Attaches to any flat surface • Provides wiring access		Mid-Pole tenon Bracket	
	<p>90° Wall Mount Bracket with 2-3/8" O.D. Tenon NO. WM-SP-D Finish: Dark Bronze USE: The 90° wall mount bracket with 2-3/8" tenon attaches an MESTER floodlight to almost any surface: wall, roof, or wood pole. Provides wiring access and abuilt-in 2-3/8" O.D. tenon to mount a fixture with our adjustable slipfitter. Suggested 3/8" diameter bolts for mounting. Mounting holes are spaced 3-1/4" apart.</p>		<p>2-3/8" OD Horizontal Tenon Mid-Pole Bracket NO. SQ-SP-D Finish: Dark Bronze USE: 2-3/8" OD Horizontal Tenon Mid-Pole Bracket is designed to mount light fixture that is equipped with a adjustable slipfitter onto a 2-3/8" OD horizontal tenon</p>

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
40W	120-277V	4000K	7Hx7V	MFD0740W27V40KB[D,B,W,SG][Blank,P0]B77[TR,SP,WM,YK]	Premium
		5000K	7Hx7V	MFD0740W27V50KB[D,B,W,SG][Blank,P0]B77[TR,SP,WM,YK]	Premium
70W	120-277V	4000K	7Hx7V	MFD0770W27V40KB[D,B,W,SG][Blank,P0]B77[TR,SP,WM,YK]	Premium
		5000K	7Hx7V	MFD0770W27V50KB[D,B,W,SG][Blank,P0]B77[TR,SP,WM,YK]	Premium
100W	120-277V	4000K	7Hx7V	MFD07100W27V40KB[D,B,W,SG][Blank,P0]B77[TR,SP,WM,YK]	Premium
		5000K	7Hx7V	MFD07100W27V50KB[D,B,W,SG][Blank,P0]B77[TR,SP,WM,YK]	Premium
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
250W	120-277V	4000K	7Hx7V	MFD07250W27V40KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Premium
		5000K	7Hx7V	MFD07250W27V50KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Premium
	347-480V	4000K	7Hx7V	MFD07250W48V40KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Premium
		5000K	7Hx7V	MFD07250W48V50KB[D,B,W,SG][Blank,P0,P3,P4]B77[TR,SP,WM,YK]	Premium
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

