

AREA LIGHT(MAL04)

Applications:

Auto dealerships, parking lots, walkways, roadways, campuses, facade lighting, grocery stores and other public areas.



Specifications

Construction:

- Rugged one-piece, die-cast aluminum housing 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 (IP65).

Optics:

- Available in IES Type III, IV, V distributions
- Light engines are available in standard 4000 K and 5000 K (70 CRI) configurations.
- Scalable Lumen Packages from 5,360 to 41,700 Lumens replaces up to 1000W Metal Halide.
- 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.

Electrical:

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

Controls:

- Optional occupancy sensor
- Optional Photocell

Ambient Temperature:

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

Warranty:

- 5 Year Warranty

Installation:

- Suitable for mounting heights ranging from 26-40' in area lighting applications
- Round pole Square pole slipfitter Trunnion and wall mount are available

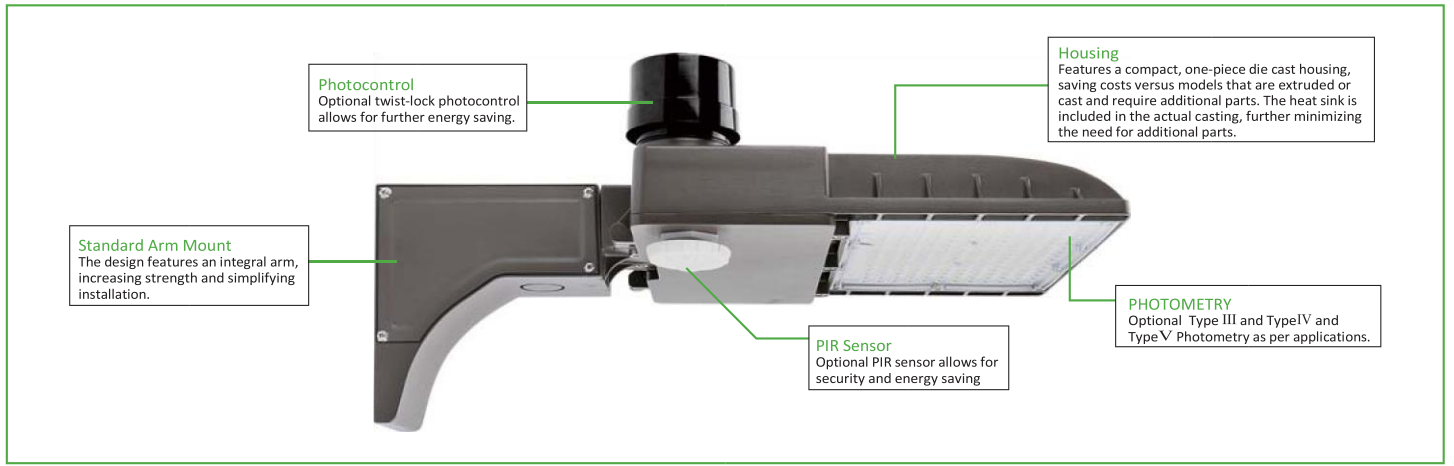
Lifespan:

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

Finish:

- Standard color is dark bronze. Also available in black, silvery gray, or white. and application. conditions at $25^{\circ}\text{C}(\pm 5^{\circ}\text{C})$ specifications subject to





Performance Data






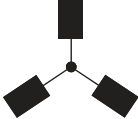

			4000K(70CRI)		5000K(70CRI)	
SYSTEM WATTS	VOLTAGE	DIST. TYPE	LUMENS	LPW	LUMENS	LPW
40W	120-277V	3	5400lm	lm/W	5500lm	lm/W
	120-277V	4	5360lm	lm/W	5480lm	lm/W
	120-277V	5	5600lm	lm/W	5720lm	lm/W
45W	347-480V	3	5900lm	lm/W	6000lm	lm/W
	347-480V	4	5850lm	lm/W	5940lm	132lm/W
	347-480V	5	6120lm	lm/W	6210lm	lm/W
70W	120-277V	3	9400lm	lm/W	9500lm	lm/W
	120-277V	4	9310lm	lm/W	9450lm	lm/W
	120-277V	5	9730lm	lm/W	9800lm	lm/W
75W	347-480V	3	9800lm	lm/W	10000lm	lm/W
	347-480V	4	9750lm	lm/W	9900lm	lm/W
	347-480V	5	10200lm	lm/W	10350lm	lm/W
100W	120-277V	3	13300lm	lm/W	13400lm	lm/W
	120-277V	4	13200lm	lm/W	13300lm	lm/W
	120-277V	5	13800lm	lm/W	13900lm	lm/W
150W	120-277V/347-480V	3	20000lm	lm/W	20100lm	lm/W
	120-277V/347-480V	4	19800lm	lm/W	20000lm	lm/W
	120-277V/347-480V	5	20700lm	lm/W	20900lm	lm/W
200W	120-277V/347-480V	3	24700lm	lm/W	25000lm	lm/W
	120-277V/347-480V	4	24600lm	lm/W	24800lm	lm/W
	120-277V/347-480V	5	25800lm	lm/W	26000lm	lm/W
250W	120-277V/347-480V	3	33600lm	lm/W	34000lm	lm/W
	120-277V/347-480V	4	33250lm	lm/W	33750lm	lm/W
	120-277V/347-480V	5	34750lm	lm/W	35250lm	lm/W
300W	120-277V/347-480V	3	40000lm	lm/W	40200lm	lm/W
	120-277V/347-480V	4	39600lm	lm/W	39900lm	lm/W

	120-277V/347-480V	5	41400lm	lm/W	41700lm	lm/W
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ELECTRICAL DATA

Number Of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	980	40	120	1.25
		40	208	0.72
		40	240	0.63
		40	277	0.54
		45	347	0.43
1	1720	45	480	0.31
		70	120	1.25
		70	208	0.72
		70	240	0.63
		70	277	0.54
1	2450	75	347	0.43
		75	480	0.31
		100	120	1.25
		100	208	0.72
		100	240	0.63
1	3900	100	277	0.54
		150	120	1.25
		150	208	0.72
		150	240	0.63
		150	277	0.54
1	5100	150	347	0.43
		150	480	0.31
		200	120	1.25
		200	208	0.72
		200	240	0.63
1	6400	200	277	0.54
		200	347	0.43
		200	480	0.31
		250	120	1.25
		250	208	0.72
1	6000	250	240	0.63
		250	277	0.54
		250	347	0.43
		250	480	0.31
		300	120	1.25
1	6000	300	208	0.72
		300	240	0.63
		300	277	0.54
		300	347	0.43
		300	480	0.31

EPA OF AREA LIGHT

Item	 1	 2 @90°	 2 @120°	 2@180°	 3 @90°	 3 @120°	 4 @90°
40W/70W/100W	0.3413	0.5929	0.7983	0.6826	1.0239	1.0499	1.0239
150W/200W	0.423	0.735	0.873	0.846	1.158	1.185	1.158
250W/300W	0.4759	0.7889	1.0581	0.9518	1.2648	1.3711	1.2648

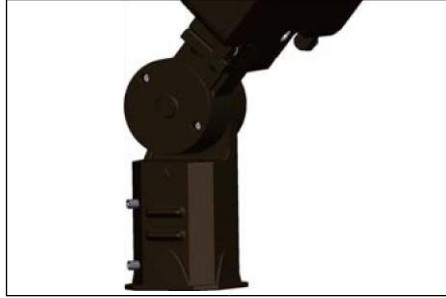
MOUNTING

- Standard versatile mounting arm accommodates multiple drilling patterns as well as square and round poles
- Wall Mount available for direct wall mounting and J-box mounting
- Optional for cast aluminum slipfitter mounting adapter Compatible with standard Tenon mounts

Mounting Options



Arm Mount (4" and 5" Square and Round poles)
Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.

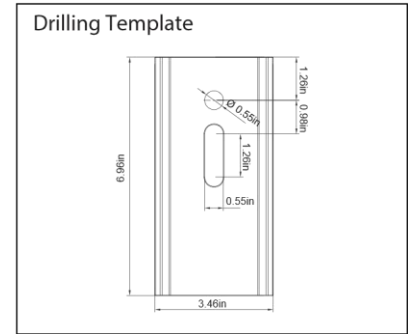
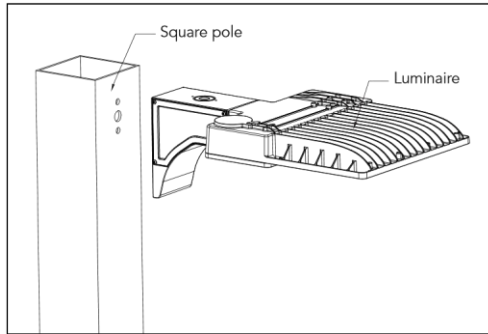
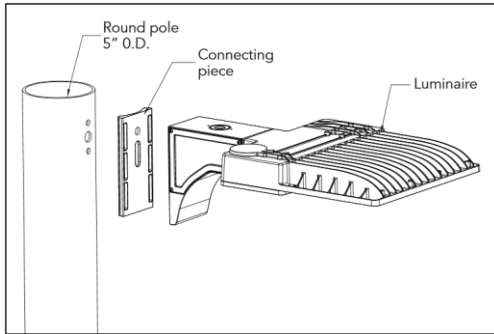


Slipfitter Mount
An optional cast aluminum mast arm adapter secures fixture head to nominal 2"(2-3/8"O.D. pipe size) horizontal steel tenon arm.



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

Mounting Dimensions



PHOTOMETRICS

Complete set of optical systems to meet every site lighting requirement. These systems provide remarkable flexibility in precisely matching light distribution patterns to specific site requirements.

Type 3:

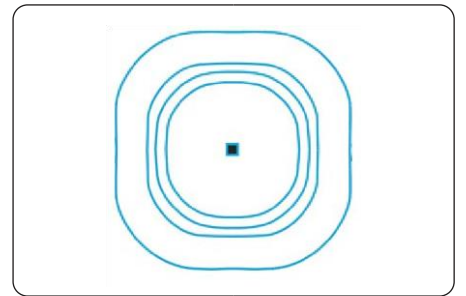
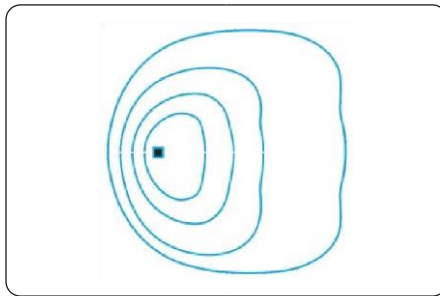
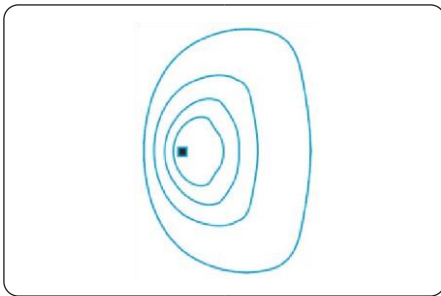
Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern which can extend pole spacings.

Type 4:

Type 4 is suitable for applications where light is primarily required forward with minimal backlight. Typical installations include perimeter poles.

Type 5:

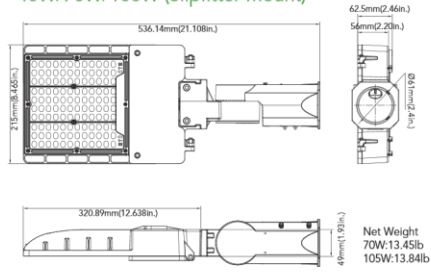
Type 5 optics produce a symmetrical square distribution pattern that distributes light equally on all sides of the luminaire. Type 5 luminaires is universal for most area lighting applications



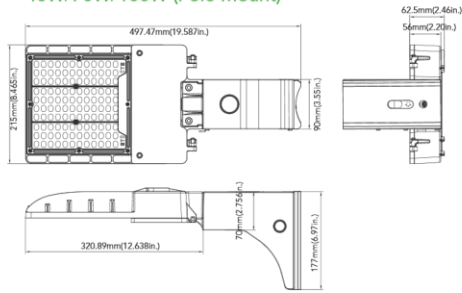
DIMENSION unit:

inch/mm

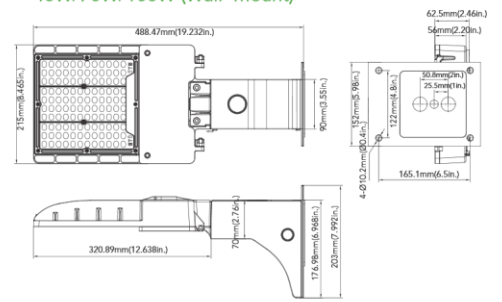
40W/70W/100W (Slipfitter Mount)



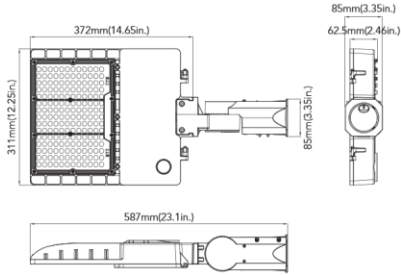
40W/70W/100W (Pole Mount)



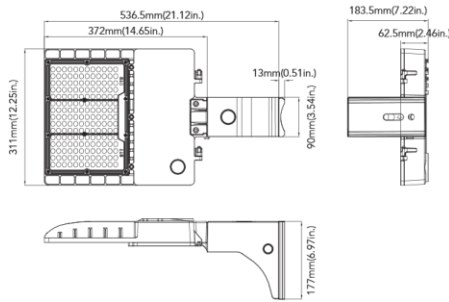
40W/70W/100W (Wall Mount)



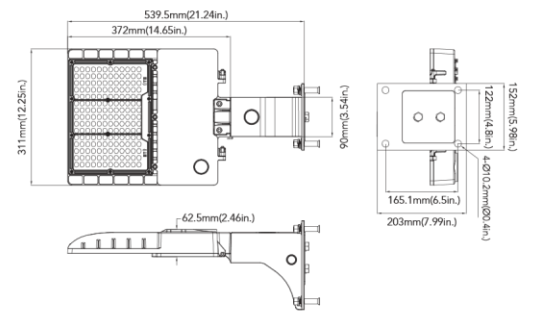
150W/200W (Slipfitter Mount)



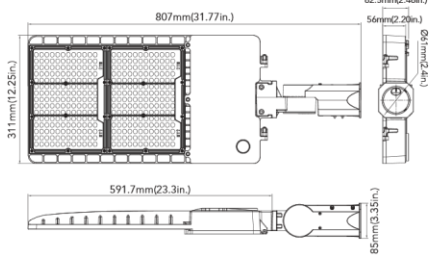
150W/200W (Pole Mount)



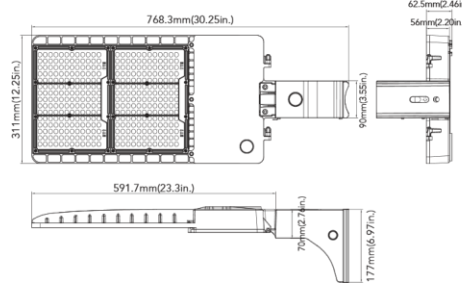
150W/200W (Wall Mount)



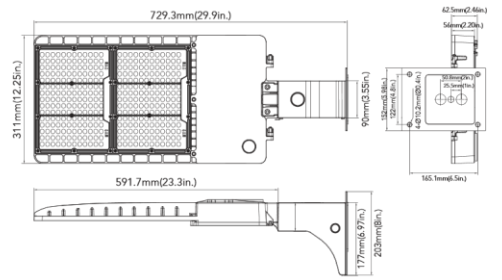
250W/300W (Slipfitter Mount)



250W/300W (Pole Mount)



250W/300W (Wall Mount)



ORDERING GUIDE

Example: MAL04 100W 27V XXK Y Y Y Y Y

Fixture Type	Wattage	Voltage	CCT	Finish	Photocell (Option)	Sensor (Option)	Mounting	Photometry	Surge Protection (Option)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MAL04 Area Light Series	40 40W 45 45W 70 70W 75 75W 100 100W	27V 120-277V 48V 347-480V	40K 4000K 50K 5000K	D Dark Bronze B Black W White SG Silver Gray	P0 120-277V Photocell P3 347V Photocell P4 480V Photocell Blank Without Photocell	M With 120-277V Sensor Blank Without Sensor	SQ Square Pole Mount SP Slipfitter Mount WM Wall Mount	T3 TYPE III Photometry T4 TYPE IV Photometry T5 TYPE V Photometry	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.






Example: MAL04 150W 27V XXK Y Y Y Y Y

Fixture Type	Wattage	Voltage	CCT	Finish	Photocell (Option)	Sensor (Option)	Mounting	Photometry
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
MAL04 Area Light Series	150 150W 200 200W 250 250W 300 300W	27V 120-277V 48V 347-480V	40K 4000K 50K 5000K	D Dark Bronze B Black W White SG Silver Gray	P0 120-277V Photocell P3 347V Photocell P4 480V Photocell Blank Without Photocell	M With 120-277V Sensor Blank Without Sensor	SQ Square Pole Mount SP Slipfitter Mount WM Wall Mount	T3 TYPE III Photometry T4 TYPE IV Photometry T5 TYPE V Photometry

ADDITIONAL MOUNTING ACCESSORIES

POLE BRACKET



• For mounting one fixture on an existing pole

 <p>183.6</p>	<p>4" Square Pole Mount with 2-3/8" O.D. Tenon No. 45Q-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>222.5</p>	<p>4" Round Pole Mount with 2-3/8" O.D. Tenon NO. 45QR-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>183.6</p>	<p>5" Square Pole Mount with 2-3/8" O.D. Tenon No. 55Q-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>222.5</p>	<p>5" Round Pole Mount with 2-3/8" O.D. Tenon NO. 55QR-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>154.5±1mm(6.08 in.) 91.801 63mm(2.48in.)</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>102±1 227.2 mm(7.76 in.) 60 mm (2 3/8 in.) 49.1mm 7.751</p>	<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 built-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>185 mm(7.28in.) 60 100 100 100 100</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 an adjustable slipfitter onto a 2-3/8" OD horizontal tenon</p>
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Round External Mount Horizontal Tenon - To mount 2/3/4 fixtures on a existing pole

 <p>184 60 63.5 mm(2.5in.) 7.751</p>	<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>184 60 63.5 mm(2.5in.) 7.751</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>184 60 63.5 mm(2.5in.) 7.751</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>184 60 63.5 mm(2.5in.) 7.751</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>184 60 63.5 mm(2.5in.) 7.751</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>		