

## 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.

### 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 14,200 to 51,000 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 1-10V dimming driver(s)
- THD: ≤20%
- Power Factor: ≥90%

### Controls:

- Optional occupancy sensor
- Optional Photocell

### Ambient Temperature:

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

### Installation:

- Suitable for mounting heights ranging from 26-50' in area lighting applications
- Round pole, Square pole, slipfitter and wall mount are available
- The design can be operated by one person to install the whole lamp

### 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

Medium Size: 100W/150W/200W



Large Size: 240W/300W/350W



### Certifications:

- DesignLights Consortium™ Qualified.
- ULcUL wet location listed.

Note: DesignLights Consortium™ Qualified and classified for DLC Standard (all lumen packages), refer to [www.designlights.org](http://www.designlights.org) for details.

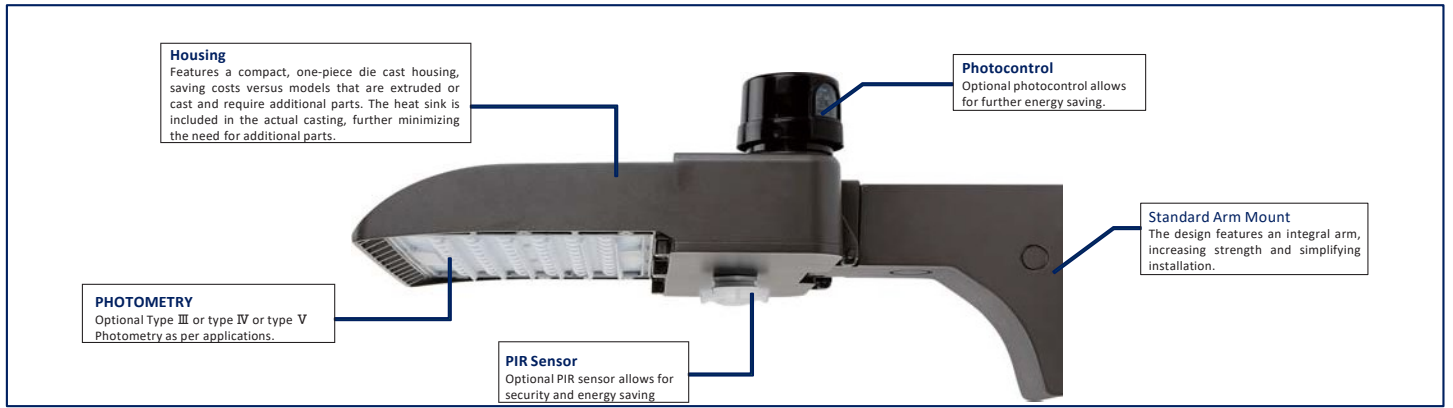
### Note:

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:

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





## PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	DIST.TYPE	4000K(70CRI)		5000K(70CRI)	
			LUMENS	LPW	LUMENS	LPW
100W	120-277V/347-480V	3	14200lm	142 lm/W	14200lm	142 lm/W
	120-277V/347-480V	4	14200lm	142 lm/W	14200lm	142 lm/W
	120-277V/347-480V	5	14800lm	148 lm/W	14800lm	148 lm/W
150W	120-277V/347-480V	3	21200lm	141 lm/W	21200lm	141 lm/W
	120-277V/347-480V	4	21200lm	141 lm/W	21200lm	141 lm/W
	120-277V/347-480V	5	22200lm	148 lm/W	22200lm	148 lm/W
200W	120-277V/347-480V	3	28000lm	140 lm/W	28000lm	140 lm/W
	120-277V/347-480V	4	28000lm	140 lm/W	28000lm	140 lm/W
	120-277V/347-480V	5	28800lm	144 lm/W	28800lm	144 lm/W
240W	120-277V/347-480V	3	34000lm	142 lm/W	34000lm	142 lm/W
	120-277V/347-480V	4	34000lm	142 lm/W	34000lm	142 lm/W
	120-277V/347-480V	5	35500lm	148 lm/W	35500lm	148 lm/W
300W	120-277V/347-480V	3	42500lm	142 lm/W	42500lm	142 lm/W
	120-277V/347-480V	4	42500lm	142 lm/W	42500lm	142 lm/W
	120-277V/347-480V	5	43700lm	146 lm/W	43700lm	146 lm/W
350W	120-277V/347-480V	3	50000lm	143 lm/W	50000lm	143 lm/W
	120-277V/347-480V	4	50000lm	143 lm/W	50000lm	143 lm/W
	120-277V/347-480V	5	51000lm	146 lm/W	51000lm	146 lm/W

## ELECTRICAL DATA

Number Of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	2600	100	120	0.83
		100	208	0.48
		100	240	0.42
		100	277	0.36
		100	347	0.29
		100	480	0.21
1	3850	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	6300	240	120	2.00
		240	208	1.15
		240	240	1.00
		240	277	0.87
		240	347	0.69
		240	480	0.50
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
1	5800	350	120	2.92
		350	208	1.68
		350	240	1.46
		350	277	1.26
		350	347	1.01
		350	480	0.73

# EPA OF AREA LIGHT

Item							
	1	2 @90°	2 @120°	2@180°	3 @90°	3 @120°	4 @90°
100W/150W/200W	0.4418	0.7145	0.8813	0.8836	1.0548	1.0135	1.0548
240W/300W/350W	0.5614	0.8471	1.105	1.1228	1.294	1.2503	1.294

## BUG

SYSTEM WATTS	VOLTAGE	DIST. TYPE	B	U	G
100W	120-277V/347-480V	3	2	0	2
150W	120-277V/347-480V	3	3	0	3
200W	120-277V/347-480V	3	3	0	3
240W	120-277V/347-480V	3	3	0	4
300W	120-277V/347-480V	3	3	0	4
350W	120-277V/347-480V	3	3	0	5

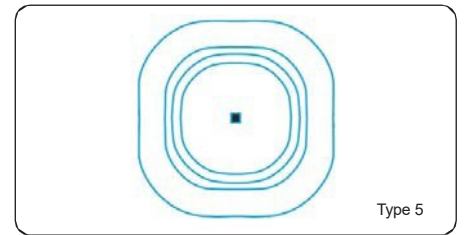
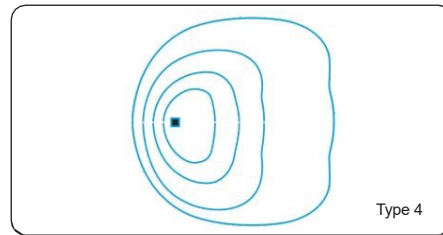
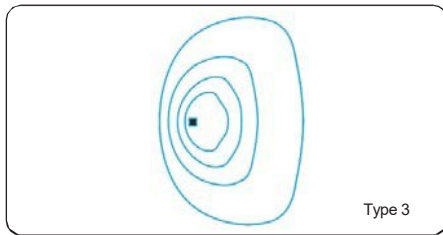
## PHOTOMETRICS

Mester offers a 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 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 is suitable for applications where light is primarily required forward with minimal backlight. Typical installations include perimeter poles.

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



## 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 more MESTER mounting adaptors such as Tenon, suits for various application)

### 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.

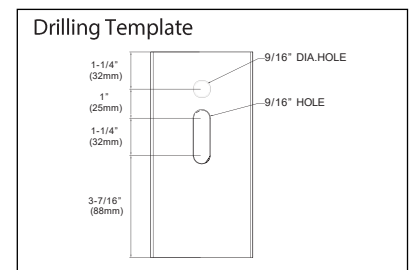
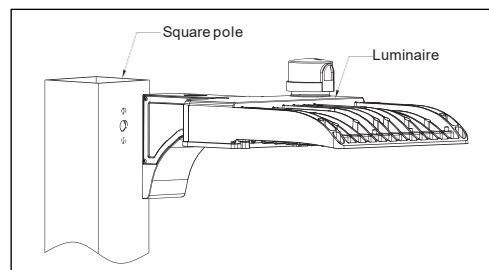
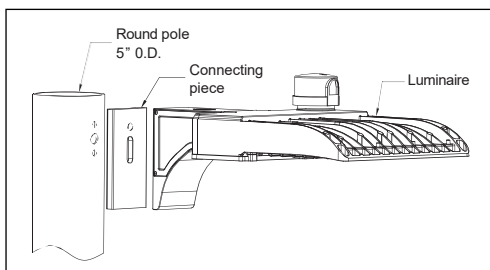


**Slipfitter Mount**  
An optional cast aluminum mast arm adapter secures fixture head to nominal 2-3/8" O.D. horizontal steel tenon arm.



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

### Mounting Dimensions



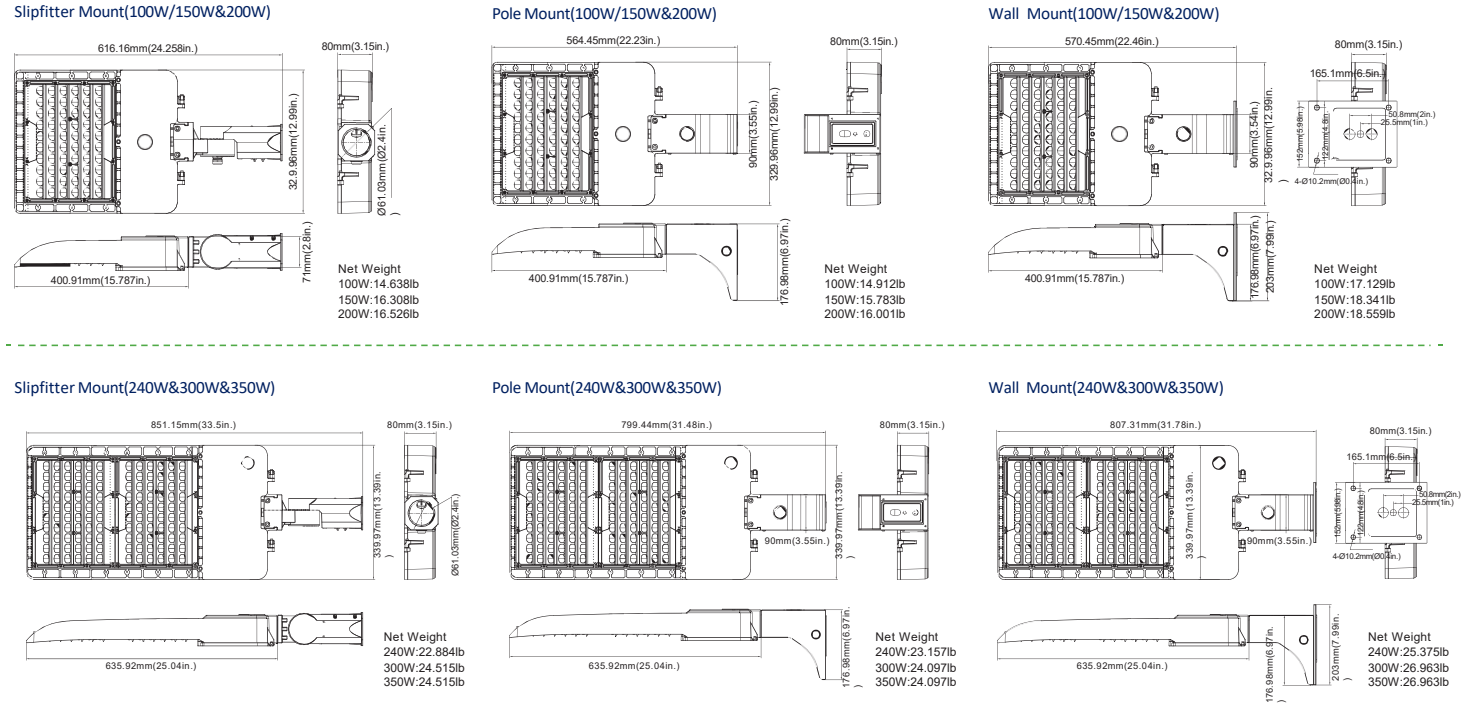
# EXTERNAL SHIELDS

AL06 series features a backlight control which provides reduced pixilation and increased visual comfort without compromising performance. External Glare Shield: sold separately or as an accessory.



## DIMENSION

unit: inch/mm







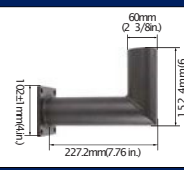
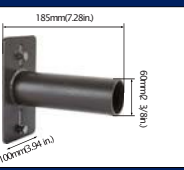
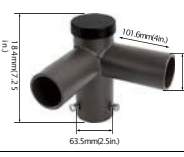
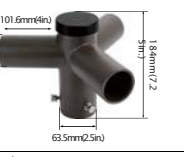





## ORDERING GUIDE

Example: MAL06 150W 27V XXKYYYYY

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"/>
<b>MAL06</b> Area Light Series	<b>100</b> 100W <b>150</b> 150W <b>200</b> 200W <b>240</b> 240W <b>300</b> 300W <b>350</b> 350W	<b>27V</b> 120-277V <b>48V</b> 347-480V	<b>40K</b> 4000K <b>50K</b> 5000K	<b>D</b> Dark Bronze <b>B</b> Black <b>W</b> White <b>SG</b> Silver Gray	<b>P0</b> 120-277V Photocell <b>P3</b> 347V Photocell <b>P4</b> 480V Photocell <b>Blank</b> Without Photocell	<b>M</b> With 120-277V Sensor <b>Blank</b> Without Sensor	<b>SQ</b> Square Pole Mount <b>SP</b> Slipfitter Mount <b>WM</b> Wall Mount	<b>T3</b> TYPE III Photometry <b>T4</b> TYPE IV Photometry <b>T5</b> TYPE V Photometry

# ADDITIONAL MOUNTING ACCESSORIES

POLE BRACKET			
• For mounting one fixture on an existing pole			
	<p><b>4" Square Pole Mount with 2-3/8" O.D. Tenon</b>                      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><b>4" Round Pole Mount with 2-3/8" O.D. Tenon</b>                      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><b>5" Square Pole Mount with 2-3/8" O.D. Tenon</b>                      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><b>5" Round Pole Mount with 2-3/8" O.D. Tenon</b>                      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><b>Pole Bracket Accessories—Angle-Adjustment Adapter</b>                      NO. SQA-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><b>Pole Bracket accessories-Tenon &amp; Yoke Adaptor</b>                      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		Mid-Pole tenon Bracket	
<p>• Attaches to any flat surface                      • Provides wiring access</p>			
	<p><b>90° Wall Mount Bracket with 2-3/8" O.D. Tenon</b>                      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><b>2-3/8" OD Horizontal Tenon Mid-Pole Bracket</b>                      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>
Round External Mount Horizontal Tenon - To mount 2/3/4 fixtures on a existing pole			
	<p><b>Double 90° Horizontal Tenon Adaptor</b>                      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><b>Triple 120° Horizontal Tenon Adaptor</b>                      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><b>Double 180° Horizontal Tenon Adaptor</b>                      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><b>Quad 90° Horizontal Tenon Adaptor</b>                      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><b>Triple 90° Horizontal Tenon Adaptor</b>                      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>		