

# Area Light AL02



## Applications:

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

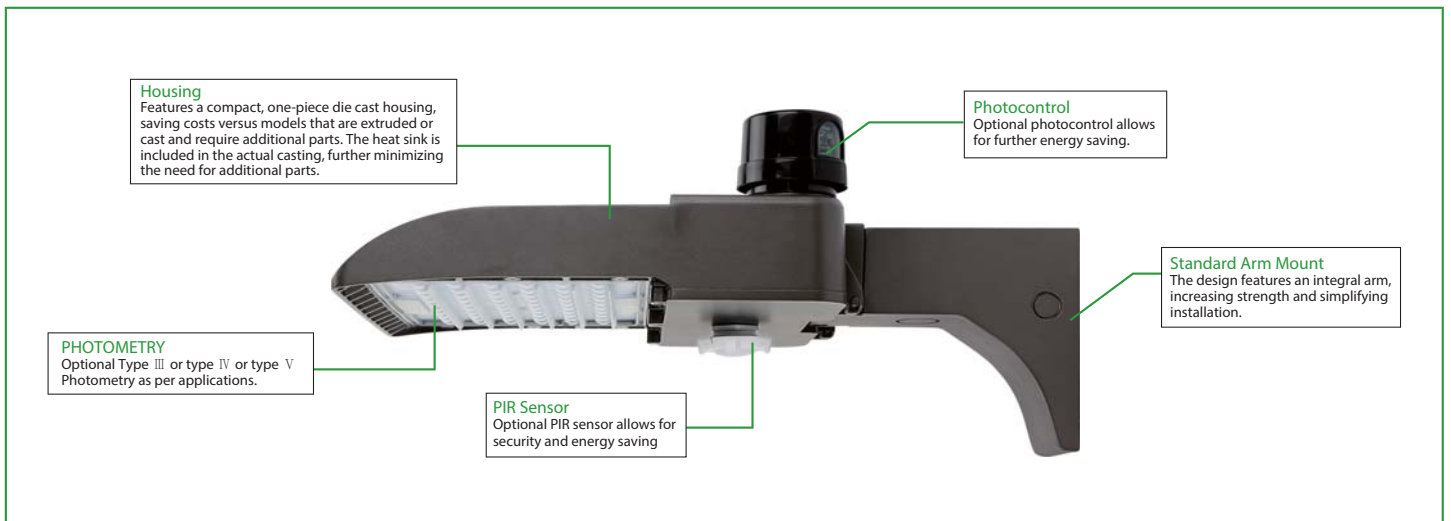
## Features

- The one piece die-cast aluminum housing with UV resistant polycarbonate optical lens, outstanding corrosion protection.
- Lumen output 19500-51000lm with efficacy to 146lm/W.
- Various distribution patterns including Type III and Type IV and Type V
- Suitable for mounting heights ranging from 26-40' in area lighting applications
- Round pole, Square pole, slipfitter and wall mount
- Optional for photocell. Increase energy savings with bi-level motion sensor
- Voltage is 120-277V / 347V-480V and support 0-10V dimmable
- Fixtures are IP66 rated and suitable for use in ambients from -40°C to 45 °C (-40 °F to 113 °F).
- Expected service life is over 100,000 hrs and 5 year limited warranty
- UL Wet location listed and DLC premium qualified

Medium Size: 150W/200W








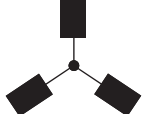

Large Size: 250W/300W/350W



# PERFORMANCE DATA

SYSTEM WATTS	DIST. TYPE	4000K(70CRI)					5000K(70CRI)				
		LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G
150W	3	19500lm	130 lm/W	3	1	2	19700lm	131 lm/W	3	1	2
	4	18800lm	125 lm/W	3	2	3	18800lm	125 lm/W	3	2	3
	5	21000lm	140 lm/W	4	1	2	21150lm	141 lm/W	4	1	2
200W	3	26000lm	130 lm/W	3	1	2	26200lm	131 lm/W	3	1	2
	4	25000lm	125 lm/W	3	2	3	25000lm	125 lm/W	3	2	3
	5	27000lm	135 lm/W	4	1	2	27200lm	136 lm/W	4	1	2
250W	3	33000lm	132 lm/W	4	1	3	33250lm	133 lm/W	4	1	3
	4	30000lm	120 lm/W	4	2	3	30500lm	122 lm/W	4	2	3
	5	35000lm	140 lm/W	5	1	2	35250lm	141 lm/W	5	1	2
300W	3	39000lm	130 lm/W	4	1	3	39300lm	131 lm/W	4	1	3
	4	36000lm	120 lm/W	4	2	4	37000lm	123 lm/W	4	2	4
	5	42000lm	140 lm/W	5	1	2	42300lm	141 lm/W	5	1	2
350W	3	50000lm	143 lm/W	4	1	3	50000lm	143 lm/W	4	1	3
	4	49000lm	140 lm/W	4	2	4	49000lm	140 lm/W	4	2	4
	5	51000lm	146 lm/W	5	1	2	51000lm	146 lm/W	5	1	2

# EPA OF AREA LIGHT

Item							
	1	2 @90°	2 @120°	2@180°	3 @90°	3 @120°	4 @90°
150W/200W	0.4418	0.7145	0.8813	0.8836	1.0548	1.0135	1.0548
250W/300W/350W	0.5614	0.8471	1.105	1.1228	1.294	1.2503	1.294

# ELECTRICAL DATA

Number Of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
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	1.25
		200	208	0.72
		200	240	0.63
		200	277	0.54
		200	347	0.43
		200	480	0.31
1	6400	250	120	1.25
		250	208	0.72
		250	240	0.63
		250	277	0.54
		250	347	0.43
		250	480	0.31
1	6000	300	120	1.25
		300	208	0.72
		300	240	0.63
		300	277	0.54
		300	347	0.43
		300	480	0.31
1	6200	350	120	1.25
		350	208	0.72
		350	240	0.63
		350	277	0.54
		350	347	0.43
		350	480	0.31

# 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.

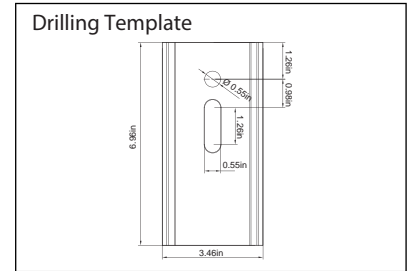
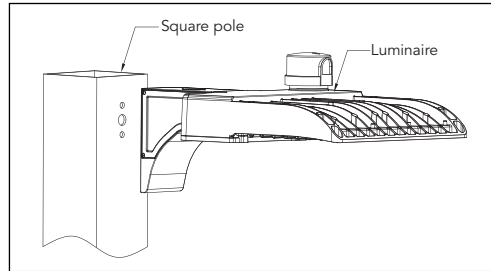
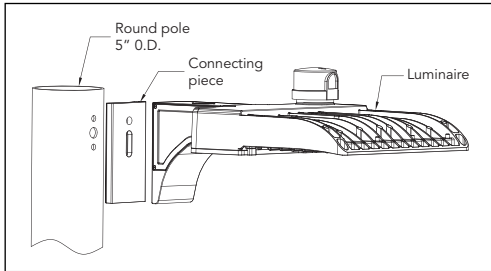


**Slipfitter Mount**  
An optional cast aluminum mast arm adapter secures fixture head to nominal 2"(2-3/8" O.D. pipe size) horizontal steel tenon arm.



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

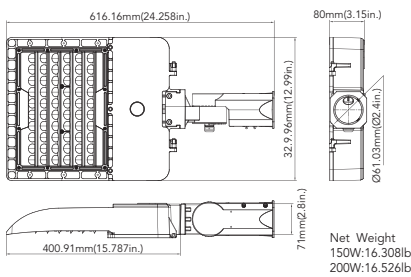
## Mounting Dimensions



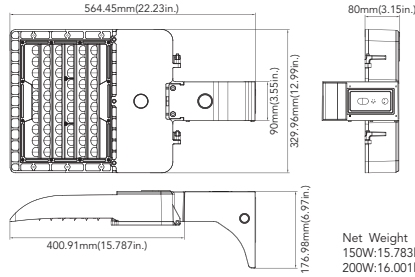
# DIMENSION

unit: inch/mm

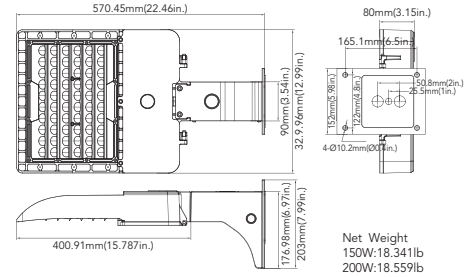
### Slipfitter Mount(150W&200W)



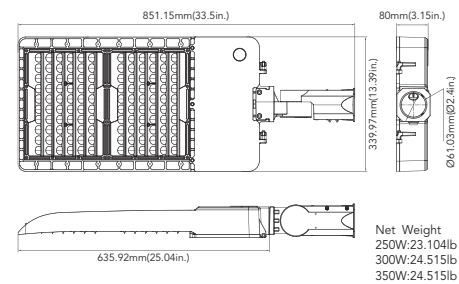
### Pole Mount(150W&200W)



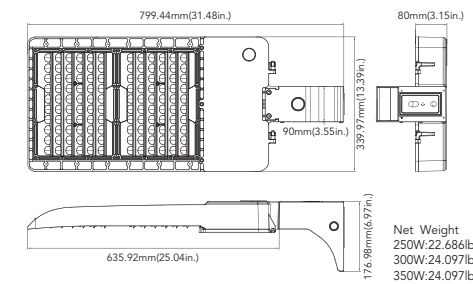
### Wall Mount(150W&200W)



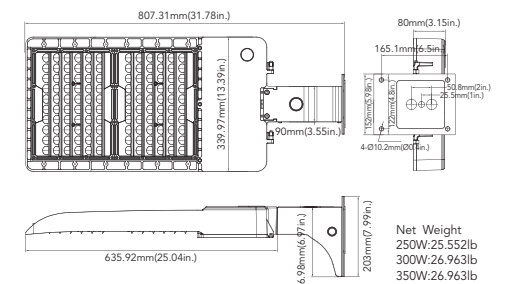
### Slipfitter Mount(250W&300W&350W)



### Pole Mount(250W&300W&350W)



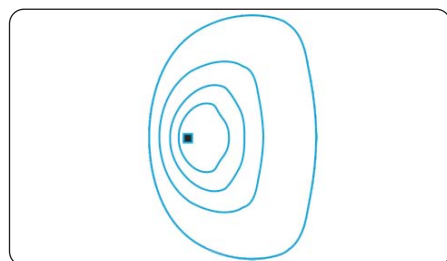
### Wall Mount(250W&300W&350W)



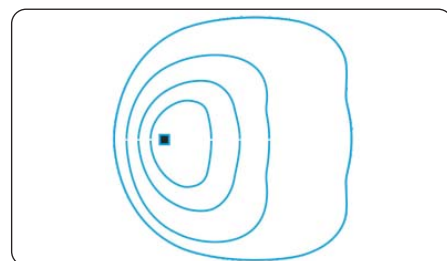
# PHOTOMETRICS

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.

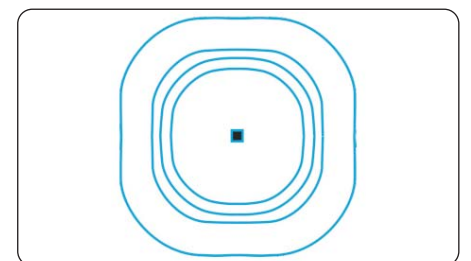
**Type 3:**  
Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern which can extend pole spacings.



**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



# ORDERING GUIDE

Example: MAL02 150W 27V XXK YYY YYY

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>MAL02</b> Area Light Series	<b>150</b> 150W <b>200</b> 200W <b>250</b> 250W <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>M4</b> With 347-480V 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

Note: Input voltage may vary depends on photocell(sensor) configuration

## 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. 4QR-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. 5QR-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-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 • Attaches to any flat surface • Provides wiring access

	<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 a 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>
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### 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>		

# BACKLIGHT CONTROL ACCESSORIES

<p><b>Backlight Control</b>          NO. SC-AL01-100W-BA          USE: It will reduce the light spill behind the pole.          Finish: Black          Only suitable for 70W and 105W.</p>	<p><b>Backlight Control</b>          NO. SC-AL01-150W-BA          USE: It will reduce the light spill behind the pole.          Finish: Black          Only suitable for 150W to 300W.</p>

## DLC Model NO.

SYSTEM WATTS	VOLTAGE	CCT	DIST. TYPE	DLC NO.	DLC Classification
150	120-277V	4000K	3	MAL02150W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		5000K	3	MAL02150W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		4000K	5	MAL02150W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
		5000K	5	MAL02150W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
	347-480V	4000K	3	MAL02150W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M][SQ,SP,WM]T3	Premium
		5000K	3	MAL02150W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M][SQ,SP,WM]T3	Premium
		4000K	5	MAL02150W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
		5000K	5	MAL02150W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
200W	120-277V	4000K	3	MAL02200W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		5000K	3	MAL02200W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		4000K	5	MAL02200W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
		5000K	5	MAL02200W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
	347-480V	4000K	3	MAL02200W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M][SQ,SP,WM]T3	Premium
		5000K	3	MAL02200W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M][SQ,SP,WM]T3	Premium
		4000K	5	MAL02200W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
		5000K	5	MAL02200W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
250W	120-277V	4000K	3	MAL02250W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		5000K	3	MAL02250W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		4000K	5	MAL02250W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
		5000K	5	MAL02250W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
	347-480V	4000K	3	MAL02250W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T3	Premium
		5000K	3	MAL02250W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T3	Premium
		4000K	5	MAL02250W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
		5000K	5	MAL02250W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
300W	120-277V	4000K	3	MAL02300W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		5000K	3	MAL02300W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T3	Premium
		4000K	5	MAL02300W27V40K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
		5000K	5	MAL02300W27V50K[D,B,W,SG][Blank,P0][Blank,M][SQ,SP,WM]T5	Premium
	347-480V	4000K	3	MAL02300W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T3	Premium
		5000K	3	MAL02300W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T3	Premium
		4000K	5	MAL02300W48V40K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium
		5000K	5	MAL02300W48V50K[D,B,W,SG][Blank,P3,P4][Blank,M4][SQ,SP,WM]T5	Premium