

DATA SHEET: AREA LIGHT GENERATION-2 (PT-MAL02)

The PATRIOT Areal Light Generation-2 (MAL02) is the ideal lighting solution for illuminating auto dealerships, parking lots, walkways, roadways, campuses, facade lighting, grocery stores and other public areas.

Our LED Areal Light Generation-2 (MAL02) are backed with our industry-leading more than 100,000-hour rated lamp life and 10-year warranty. See Ordering Model table below for our BAA compliant products. Contact us for pricing or more information.

PRODUCT BENEFITS

- 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.
- 5 years limited warranty (10yrs optional).
- UL Wet location and DLC premium qualified.

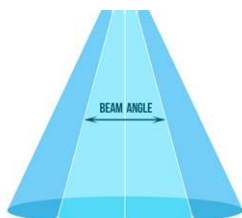
Medium Size: 150W/200W



Large Size: 250W/300W/350W

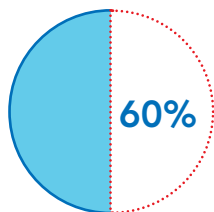


BEAM ANGLE



Patriot LED Light Distribution

CAN DECREASE ENERGY USAGE BY



vs. Similar Fluorescent Lamps

WARRANTY



Our Industry-Leading 10-Year Limited Warranty Guarantees Unsurpassed Quality

APPLICATIONS

- Auto dealerships.
- Parking lots.
- Walkways.
- Roadways.
- Campuses.
- Facade lighting.
- Grocery stores and other public areas.



ORDERING MODEL

Fixture Type	WATTAGE	VOLTAGE	CCT	FINISH	PHOTOCELL (OPTION)	SENSOR (OPTION)	MOUNTING	PHOTOMETRY
PT-MAL02 Patriot Area Light Series	150 150W	27V	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 M4 = With 347-480V Sensor Blank = Without Sensor	SQ = Square Pole Mount SP = Slipfitter Mount WM = Wall Mount	T3 TYPE Photometry T4 TYPE Photometry T5 TYPE Photometry
	200 200W							
	250 250W	120-277V						
	300 300W	48V						
	350 350W							

Product Code: Example








PT-MAL02 150W 27V XXK Y Y Y Y Y

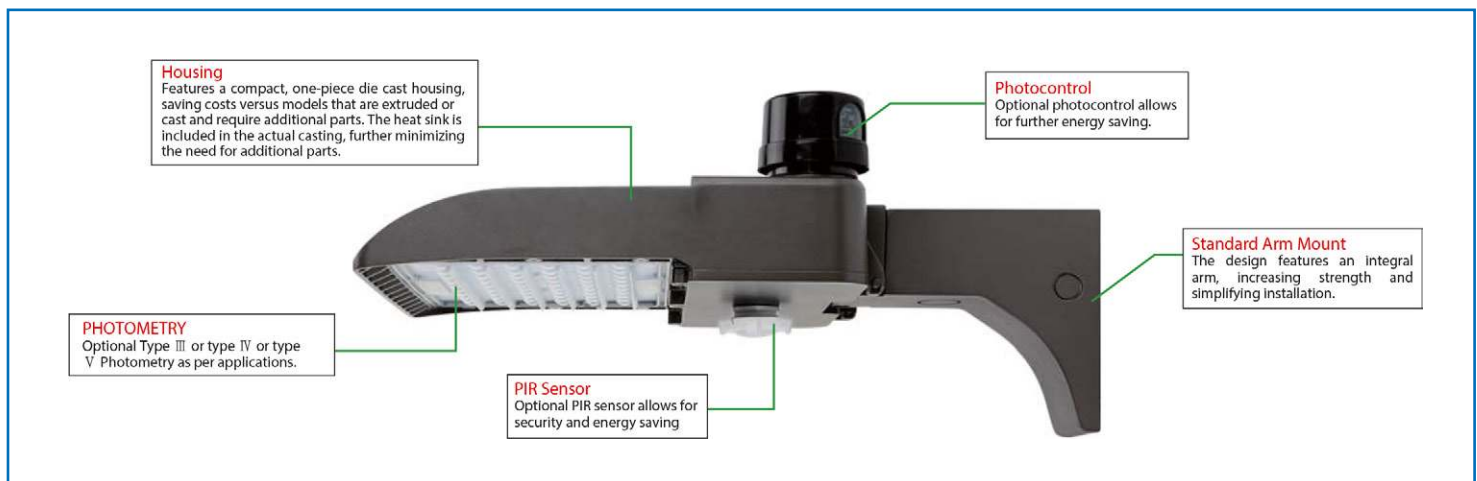
Note: Input voltage may vary depends on photocell(sensor) configuration

PRODUCT SPECIFICATION

Product No.	BAA/TAA Option*	Watts	DIST. TYPE	4000K (70CRI)					5000K (70CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
PT-MAL02 150W 27V XXX YYYYYY	Yes	150W	3	19500lm	130 lm/W	3	1	2	19700lm	131 lm/W	3	1	2
	Yes		4	18800lm	125 lm/W	3	2	3	18800lm	125 lm/W	3	2	3
	Yes		5	20000lm	133 lm/W	4	2	2	20000lm	133 lm/W	4	2	2
PT-MAL02 200W 27V XXX YYYYYY	Yes	200W	3	26000lm	130 lm/W	3	1	2	26200lm	131 lm/W	3	1	2
	Yes		4	25000lm	125 lm/W	3	2	3	25000lm	125 lm/W	3	2	3
	Yes		5	26600lm	133 lm/W	4	2	2	26600lm	133 lm/W	4	2	2
PT-MAL02 250W 27V XXX YYYYYY	Yes	250W	3	32000lm	128 lm/W	4	2	3	32500lm	130 lm/W	4	2	3
	Yes		4	3000lm	120 lm/W	4	2	4	30500lm	122 lm/W	4	2	4
	Yes		5	33500lm	134 lm/W	5	2	2	34000lm	136 lm/W	5	2	2
PT-MAL02 300W 27V XXX YYYYYY	Yes	300W	3	38000lm	127 lm/W	4	2	3	39000lm	130 lm/W	4	2	3
	Yes		4	36000lm	120 lm/W	4	2	4	37000lm	123 lm/W	4	2	4
	Yes		5	41000lm	137 lm/W	5	2	2	41500lm	138 lm/W	5	2	2
PT-MAL02 350W 27V XXX YYYYYY	Yes	350W	3	50000lm	143 lm/W	4	2	3	50000lm	143 lm/W	4	2	3
	Yes		4	49000lm	140 lm/W	4	2	4	49000lm	140 lm/W	4	2	4
	Yes		5	51000lm	146 lm/W	5	2	2	51000lm	146 lm/W	5	2	2

EPA OF AREA LIGHT

Item							
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	0.54
		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.

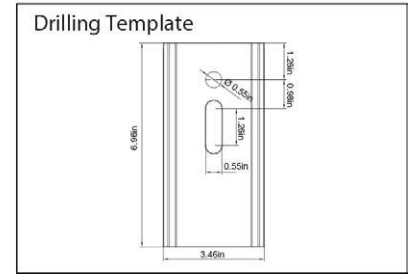
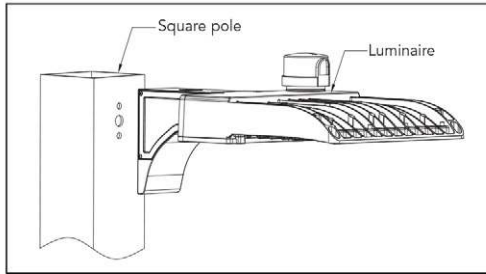
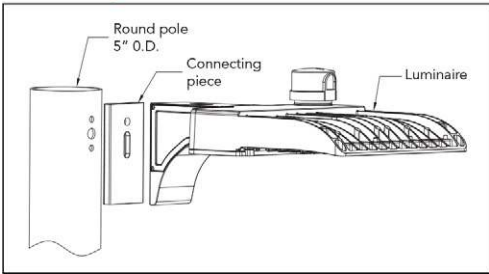


Slipfitter Mount
An optional cast aluminum mast arm adapter secures fixture head to nominal 2"(2-3/8" O.D. pipe size) horizontal steel tenon arm.



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

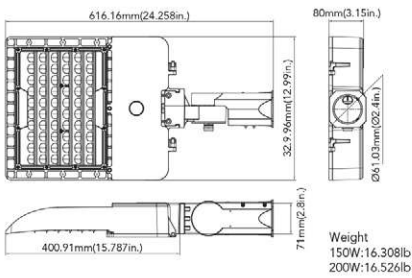
Mounting Dimensions



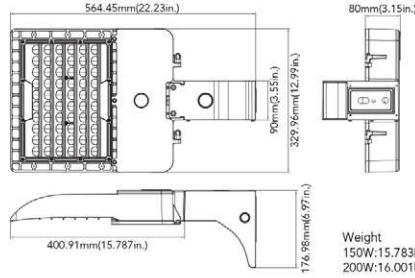
DIMENSION

unit: inch/mm

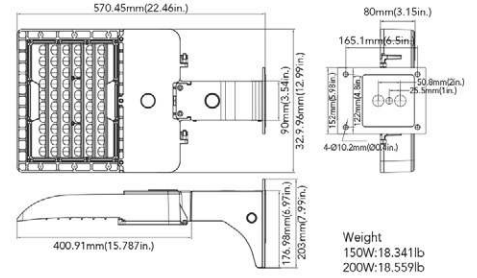
Slipfitter Mount(150W&200W)



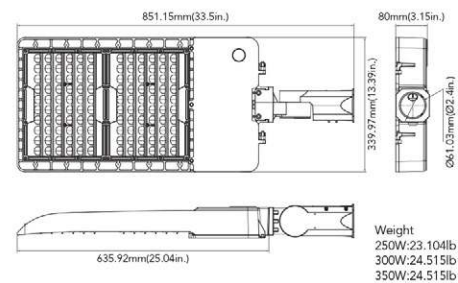
Pole Mount(150W&200W)



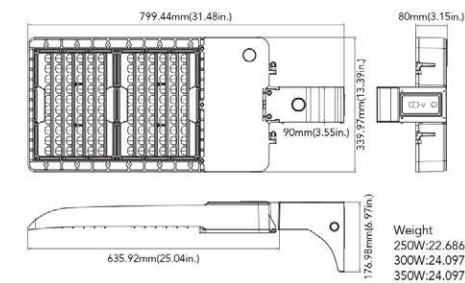
Wall Mount(150W&200W)



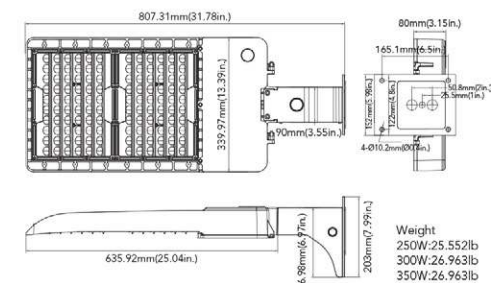
Slipfitter Mount(250W&300W&350W)



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



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

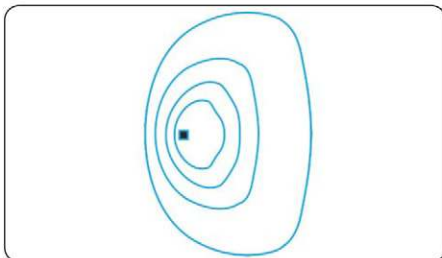


PHOTOMETRICS

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.

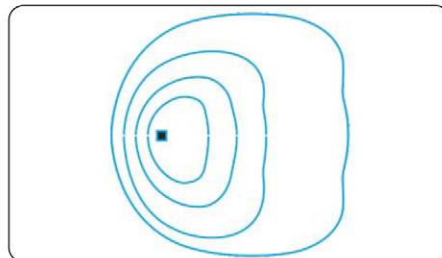
Type 3:

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



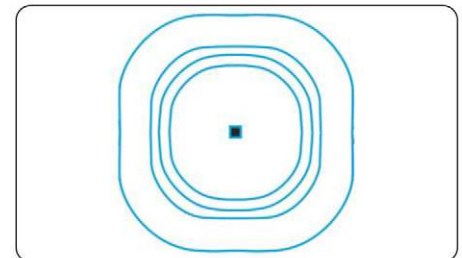
Type 4:

Type 4 is suitable for applications where light is primarily required forward, and minimal backlight is



Type 5:

Type 5 optics produce a symmetrical square pattern that distributes light equally on all sides of the luminaire. Type 5 luminaires





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. 4SOR-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. 5SOR-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-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 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>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>
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>		