

DATA SHEET: AREA LIGHT GENERATION-2

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

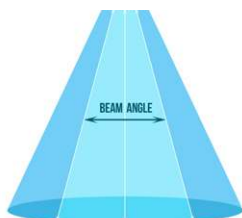
Our LED Areal Light Generation-2 are backed with our industry-leading more than 100,000-hour rated lamp life and 10-year warranty. See Ordering Model table below for our BAA compliant products. Contact us for pricing or more information.

PRODUCT BENEFITS

- The one piece die-cast aluminum housing with UV resistant polycarbonate optical lens, outstanding corrosion protection.
- Voltage is 120-277V & 347/480V.
- Suitable for mounting heights ranging from 18-36' in area lighting applications.
- Lumen output from 9000-40000lm with efficacy up to 130lm/W.
- Round pole and square pole mounting, direct wall mounting, slipfitter mounting options available.
- Long lasting with lifespan 100,000 hrs.
- Fixtures are IP66 rated and suitable for use in ambients from -40°C to 45°C(-40°F to 113°F).
- Various distribution patterns including Type III and Type IV and Type V.
- UL Wet location listed and DLC qualified.
- Limited Warranty: 5 years (10yrs optional)

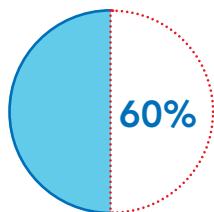


BEAM ANGLE



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 (XXK)	FINISH (Y)	PHOTOCELL (OPTION) (Y)	SENSOR (OPTION) (Y)	MOUNTING (Y)	PHOTOMETRY (Y)	SURGE PROTECTION (Y)
PT-MAL = Area Light	70 70W 75 75W 105 105W 110 110W	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 M4 = With 347-480V Sensor Blank = Without Sensor	SQ = Square Pole Mount SP = Slipfitter Mount WM = Wall Mount	T3 TYPE III Photometry T5 TYPE V Photometry	S = Surge protection (Blank) = No Surge protection
Product Code: Example									
PT-MAL 105W 27V XXK Y Y Y Y Y Y									

ORDERING MODEL








Fixture Type (AL)	WATTAGE	VOLTAGE	CCT (XXK)	FINISH (Y)	PHOTOCELL (OPTION) (Y)	SENSOR (OPTION) (Y)	MOUNTING (Y)	PHOTOMETRY (Y)
PT-AL Area Light	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 M4 = With 347-480V 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
Product Code: Example								
PT-AL 105W 27V XXK YYYYYY								

Note: The Watt is 70W when the voltage is 120-277V, while when it is 347/480V, the watt is 75W.
The Watt is 105W when the voltage is 120-277V, while when it is 347/480V, the watt is 110W.

PRODUCT SPECIFICATION

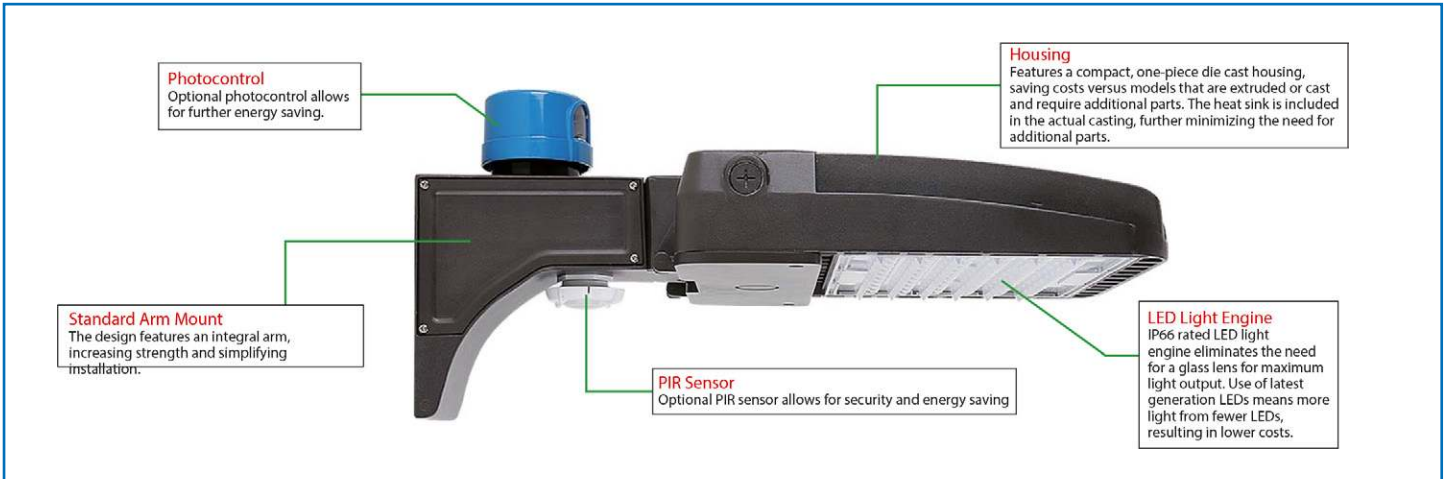
Product No.	BAA/TAA Option*	Watts	DIST. TYPE	4000K (70CRI)					5000K (70CRI)				
				Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
PT-MAL 70W 27V XXK YYYYYY	Yes	70W	3	9000lm	129 lm/W	2	3	2	9000lm	129 lm/W	2	3	2
	Yes		5	9500lm	136 lm/W	3	3	1	9500lm	136 lm/W	3	3	1
PT-MAL 105W 27V XXK YYYYYY	Yes	105W	3	13400lm	128 lm/W	3	2	2	13400lm	128 lm/W	3	1	2
	Yes		5	13400lm	128 lm/W	3	2	1	13400lm	128 lm/W	3	2	2
PT-MAL 150W 27V XXK YYYYYY	Yes	150W	3	20000lm	133 lm/W	3	2	2	20000lm	133 lm/W	3	2	2
	Yes		4	19000lm	126 lm/W	3	2	3	19000lm	126 lm/W	3	2	3
	Yes		5	20500lm	137 lm/W	4	2	2	21000lm	140 lm/W	4	2	2
PT-MAL 200W 27V XXK YYYYYY	Yes	200W	3	24500lm	123 lm/W	3	2	2	24500lm	123 lm/W	3	2	3
	Yes		4	23500lm	118 lm/W	3	2	3	23500lm	118 lm/W	3	2	3
	Yes		5	24500lm	123 lm/W	4	2	2	24500lm	123 lm/W	4	2	2
PT-MAL 250W 27V XXK YYYYYY	Yes	250W	3	33000lm	132 lm/W	4	2	3	33000lm	132 lm/W	4	2	3
	Yes		4	32000lm	128 lm/W	4	2	4	32000lm	128 lm/W	4	2	4
	Yes		5	35000lm	140 lm/W	5	2	2	36500lm	146 lm/W	5	2	2
PT-MAL 300W 27V XXK 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	36000lm	120 lm/W	4	2	4
	Yes		5	40000lm	133 lm/W	5	2	2	40000lm	133 lm/W	5	2	2

EPA OF AREA LIGHT

Item							
	1	2 @90°	2 @120°	2 @180°	3 @90°	3 @120°	4 @90°
70W/105W	0.626	0.705	0.971	0.981	0.982	0.975	0.982
150W/200W	0.667	0.742	1.162	1.165	1.167	1.163	1.167
250W/300W	0.847	0.996	1.629	1.634	1.636	1.632	1.636

ELECTRICAL DATA

Number Of Drivers	Driver Current (Amps)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	1750	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	2600	105	120	0.88
		105	208	0.50
		105	240	0.44
		105	277	0.38
		110	347	0.32
		110	480	0.23
1	3800	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	4900	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	208	1.04
		250	277	0.90
		250	347	0.72
		250	480	0.52
2	7700	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

- 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.

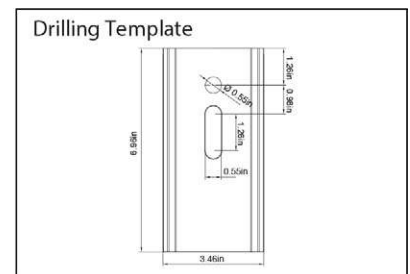
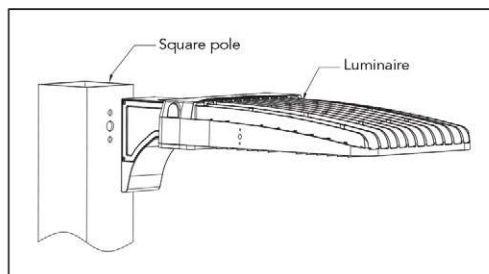
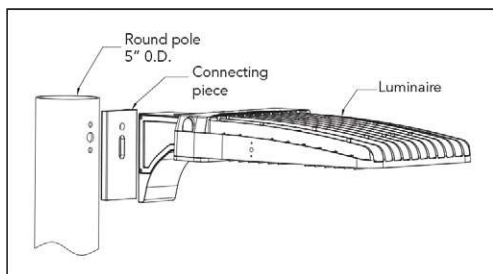


Slipfitter Mount
An optional cast aluminum mast arm adapter secures fixture head to nominal 2"(2-3/8" O.D. pipe size) horizontal steel tenon arm.



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

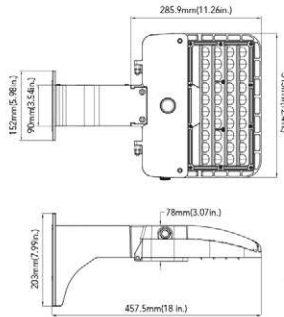
Mounting Dimensions



DIMENSION

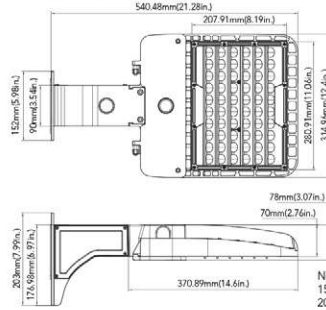
unit: inch/mm

70W&105W (Wall Mount)



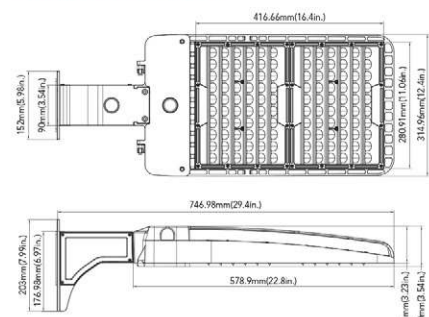
Net Weight
70W:13.45lb
105W:13.84lb

150W&200W (Wall Mount)



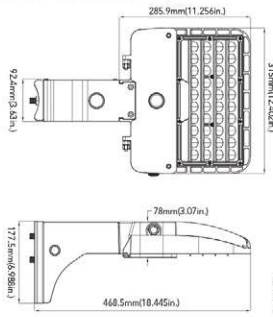
Net Weight
150W:18.12lb
200W:19.02lb

250W&300W (Wall Mount)



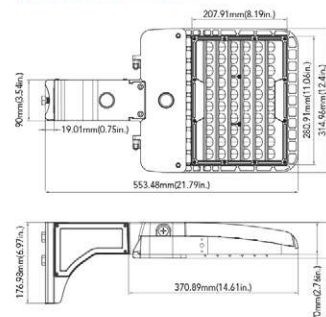
Net Weight
250W:28.63lb
300W:29.36lb

70W&105W (Pole Mount)



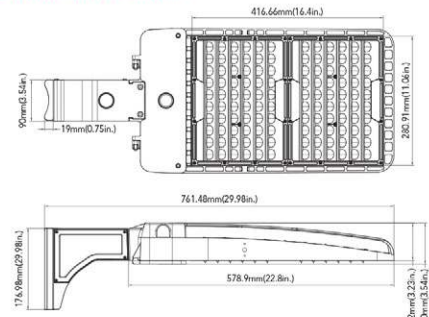
Net Weight
70W:11.8lb
105W:11.98lb

150W&200W (Pole Mount)



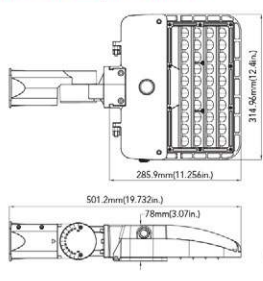
Net Weight
150W:16.47lb
200W:17.38lb

250W&300W (Pole Mount)



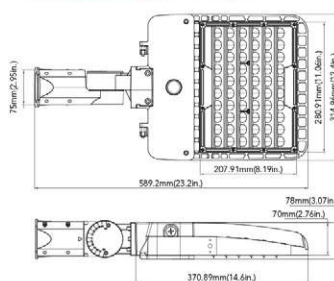
Net Weight
250W:26.99lb
300W:27.72lb

70W&105W (Slipfitter Mount)



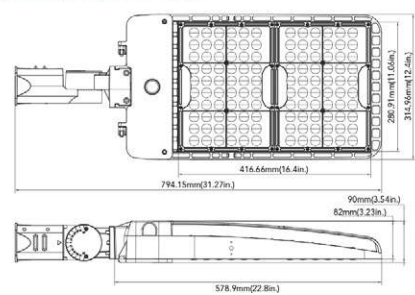
Net Weight
70W:11lb
105W:11.40lb

150W&200W (Slipfitter Mount)



Net Weight
150W:15.70lb
200W:16.60lb

250W&300W (Slipfitter Mount)

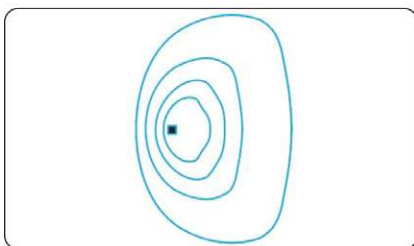


Net Weight
250W:26.26lb
300W:26.96lb

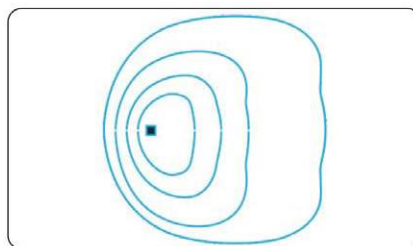
PHOTOMETRICS

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.

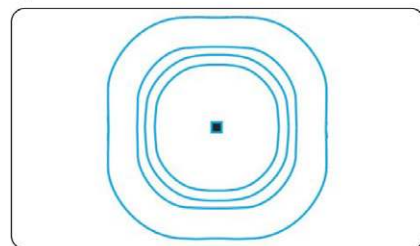
Type 3:
Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back



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. 4SQR-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. 5SQR-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 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 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>		