

SPECIFICATIONS

Construction

- The rugged, one-piece die-cast aluminum housing features a complete heat sink that optimizes heat dissipation through convection cooling management.
- 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 II, III, IV, V distributions
- Light engines are available in adjustable color temperature (3000K, 4000K, 5000K) configurations.
- Scalable lumen packages from 6,600 to 61,000 Lumens replaces up to 1000W Metal Halide.
- Optics are precisely designed to shape the distribution, maximizing efficiency and application spacing.
- The optics can conform to dark sky requirements.

Electrical

- Universal 120-277V AC or 347-480V AC input voltage
- 10KA (@120-277V) or 20KA (@347-480V) surge protection
- Standard with 0-10V dimming driver for 10% to 100% dimming capability.
- Power adjustable: 100%, 80%, 60%, 40%
- THD: ≤ 20%
- Power Factor: ≥ 90%

Controls

- PIR Photocell Twist-Lock Top.
- Integrated Microwave Bi-Level Dimming and Motion Detection.
- Shorting Cap for Manual Switch or Timer Control.

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, slip fitter, wall mount, and yoke mounts are available.
- The design can be operated by one person to install the whole fixture.

Lifespan

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

Finish

- Available in Black, or optional Dark Bronze, Silver Grey, or White.



Black



Dark Bronze



Silver Grey



White

Certifications



MOUNTING

- Standard versatile mounting arm accommodates multiple drilling patterns as well as square and round poles



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.



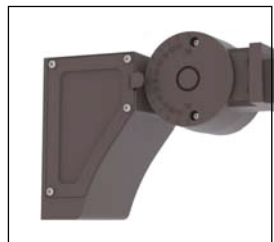
Wall Mount

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



Yoke Mount

Die-cast aluminum trunnion is easily adapted to many surfaces and allows easy fixture aiming angles.



Adjustable Arm Mount

Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.

Medium Size: 100W/140W/180W
 EPA = 0.60



Large Size: 250W/300W/400W
 EPA = 0.80



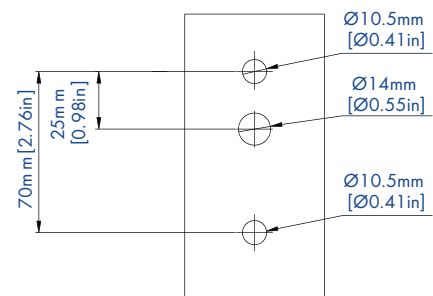
CONTROLS

Twist-Lock Photocell

ANT-5-4T Motion Sensor/Dimmer



DRILLING TEMPLATE



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.

PERFORMANCE DATA

MAL08100W									
SETTING	SYSTEM WATTS	DIST. TYPE	CRI	3000K		4000K		5000K	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	100W	3	70	14500lm	145 lm/W	15800lm	158 lm/W	15000lm	150 lm/W
80%	80W	3	70	12000lm	150 lm/W	13000lm	163 lm/W	12500lm	156 lm/W
60%	60W	3	70	9300lm	155 lm/W	10000lm	167 lm/W	9600lm	160 lm/W
40%	40W	3	70	6400lm	160 lm/W	6800lm	170 lm/W	6560lm	164 lm/W
MAL08140W									
SETTING	SYSTEM WATTS	DIST. TYPE	CRI	3000K		4000K		5000K	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	140W	3	70	20000lm	147 lm/W	23000lm	164 lm/W	21000lm	150 lm/W
80%	120W	3	70	18000lm	150 lm/W	20000lm	167 lm/W	18500lm	154 lm/W
60%	90W	3	70	13800lm	153lm/W	15200lm	169 lm/W	14200lm	158 lm/W
40%	60W	3	70	9400 lm	157 lm/W	10300lm	172 lm/W	9700 lm	162 lm/W
MAL08180W									
SETTING	SYSTEM WATTS	DIST. TYPE	CRI	3000K		4000K		5000K	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	180W	3	70	24800lm	138 lm/W	27000lm	150 lm/W	25200lm	140 lm/W
80%	144W	3	70	20200lm	140 lm/W	22000lm	153 lm/W	20600lm	143 lm/W
60%	108W	3	70	15300lm	142 lm/W	16800lm	156 lm/W	15700lm	145 lm/W
40%	72W	3	70	10500lm	146 lm/W	11500lm	160 lm/W	10800lm	150 lm/W
MAL08250W									
SETTING	SYSTEM WATTS	DIST. TYPE	CRI	3000K		4000K		5000K	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	250W	3	70	33500lm	134 lm/W	37000lm	148 lm/W	34500lm	138 lm/W
80%	200W	3	70	27500lm	138 lm/W	30400lm	152 lm/W	28400lm	142 lm/W
60%	150W	3	70	21300lm	142 lm/W	23200lm	155 lm/W	21800lm	145 lm/W
40%	100W	3	70	14500lm	145 lm/W	16000lm	160 lm/W	14800lm	148 lm/W
MAL08300W									
SETTING	SYSTEM WATTS	DIST. TYPE	CRI	3000K		4000K		5000K	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	300W	3	70	41000lm	137 lm/W	45000lm	150 lm/W	42000lm	140 lm/W
80%	240W	3	70	33600lm	140lm/W	37000lm	154 lm/W	34600lm	144 lm/W
60%	180W	3	70	26000lm	144 lm/W	28600lm	159 lm/W	26600lm	148 lm/W
40%	120W	3	70	18000lm	150 lm/W	20000lm	167 lm/W	18500lm	154 lm/W
MAL08400W									
SETTING	SYSTEM WATTS	DIST. TYPE	CRI	3000K		4000K		5000K	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	400W	3	70	N/A	N/A	60500lm	151 lm/W	60000lm	150 lm/W
80%	360W	3	70	N/A	N/A	56000lm	156 lm/W	55000lm	153 lm/W
60%	320W	3	70	N/A	N/A	51000lm	159 lm/W	50000lm	156 lm/W
40%	300W	3	70	N/A	N/A	47000lm	162 lm/W	46000lm	159 lm/W

B.U.G. RATINGS & ELECTRICAL DATA

SYSTEM WATTS	VOLTAGE	DIST.TYPE	B	U	G
100W	120-277V/347-480V	2	3	0	3
		3	3	0	3
		4	3	0	2
		5	4	0	2
140W	120-277V/347-480V	2	3	0	3
		3	3	0	3
		4	3	0	3
		5	4	0	2
180W	120-277V/347-480V	2	4	0	3
		3	3	0	3
		4	3	0	3
		5	4	0	2
250W	120-277V/347-480V	2	4	0	4
		3	4	0	4
		4	4	0	3
		5	5	0	3
300W	120-277V/347-480V	2	5	0	4
		3	4	0	4
		4	4	0	4
		5	5	0	4
400W	120-277V/347-480V	2	5	0	4
		3	5	0	5
		4	5	0	5
		5	5	0	4

Number Of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	850	100	120	0.83
		100	208	0.48
		100	240	0.42
		100	277	0.36
	2520	100	347	0.29
		100	480	0.21
1	1200	140	120	1.17
		140	208	0.67
		140	240	0.58
		140	277	0.51
		140	347	0.40
		140	480	0.29
1	960	180	120	1.50
		180	208	0.87
		180	240	0.75
		180	277	0.65
		180	347	0.52
		180	480	0.38
1	1200	250	120	2.08
		250	208	1.20
		250	240	1.04
		250	277	0.90
		250	347	0.72
		250	480	0.52
1	1500	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	1460	400	120	3.33
		400	208	1.92
		400	240	1.67
		400	277	1.44
		400	347	1.15
		400	480	0.83

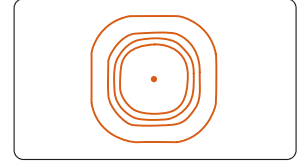
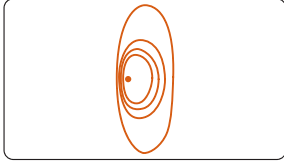
PHOTOMETRICS

Type 2 optics are ideal for applications where there is a need to space the luminaires farther apart along a road or pathway. The light distribution pattern is optimized for elongated areas, allowing for greater pole spacing without sacrificing lighting quality.

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.

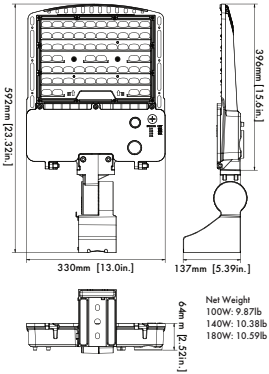
Type 4 is suitable for applications where light is primarily required forward with minimal backlight. Typical installations include perimeter poles.

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

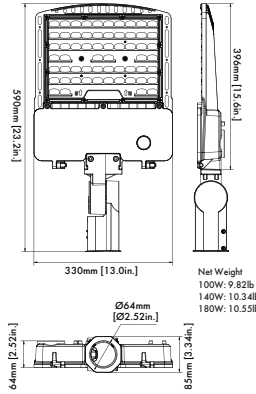


DIMENSIONS

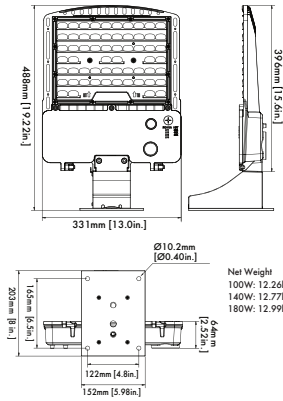
100W/140W/180W
(Adjustable Square Mount)



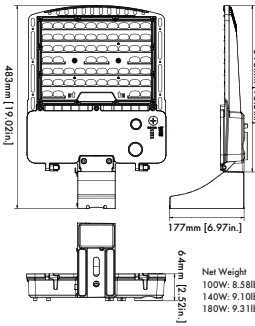
100W/140W/180W
(Slipfitter Mount)



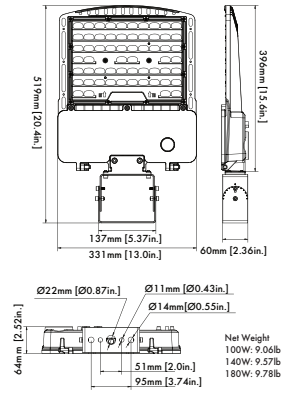
100W/140W/180W
(Wall Mount)



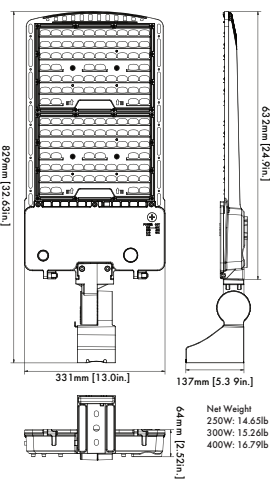
100W/140W/180W
(Pole Mount)



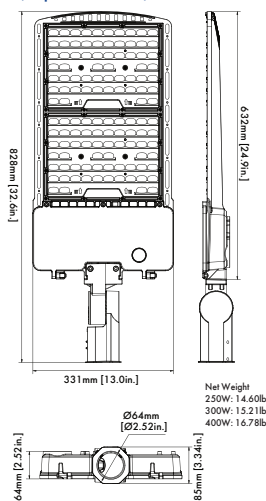
100W/140W/180W
(Yoke Mount)



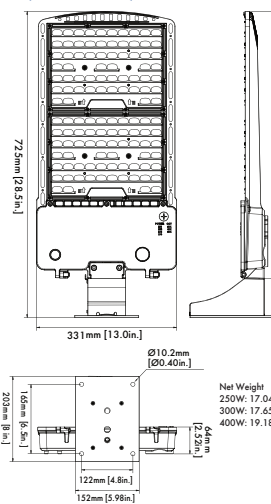
250W/300W/400W
(Adjustable Square Mount)



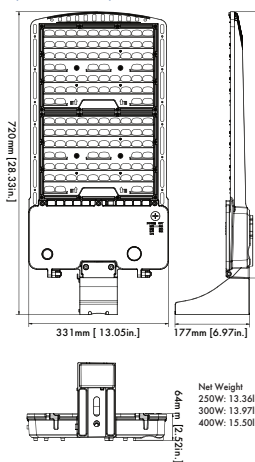
250W/300W/400W
(Slipfitter Mount)



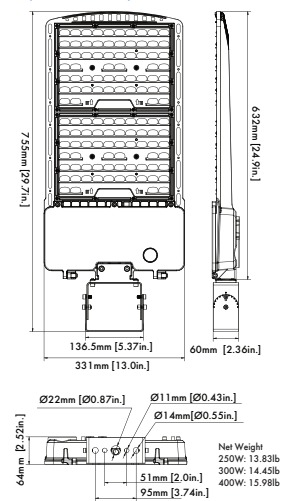
250W/300W/400W
(Wall Mount)



250W/300W/400W
(Pole Mount)



250W/300W/400W
(Yoke Mount)



ORDERING GUIDE

AVPL -

LUMINAIRE	WATTAGE	CCT	VOLTAGE	OPTICS	MOUNTING	FINISH	PHOTOCELL	SENSOR
MAL-08	100W 1200mA	DDK ADJUSTABLE COLOR TEMP	120-277V VOLTAGE SENSING	TYPE II 	SQ SQUARE POLE	DARK BRONZE	P0 120-277V	TPC PHOTOCELL
	140W 1200mA		347-480V VOLTAGE SENSING	TYPE III 	SP SLIP FITTER	BLACK	P3 347V	ANT-5-4T MOTION SENSOR/ DIMMER
	180W 960mA			TYPE IV 	WM WALL	WHITE	P4 480V	
	250W 1200mA			TYPE V 	YM YOKE	SILVER GREY	BLANK NONE	
	300W 1500mA				SQA ADJUSTABLE SQUARE			
	400W 1500mA							