AREA LIGHT(MAL08)

Specifications

Construction:

- The rugged, one-piece die-cast aluminum housing features a complete heat sink hat 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 III, IV, V distributions
- Light engines are available in adjustable color temperature (3000K&4000K&5000K) configurations.
- Scalable Lumen Packages from 20,000 to 45,000 Lumens replaces up to 1000W Metal Halide.
- Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.
- The optics can conform to dark sky requirement.

Electrical:

- Universal 120-277 VAC or 347-480 VAC input voltage
- Standard with 0-10V dimming driver
- Power adjustable: 100%, 80%, 60%, 40%.
- THD: ≤20%
- Power Factor: ≥90%

Controls:

- · Optional occupancy sensor
- Optional Photocell

Ambient Temperature:

• Ambient operating temperature -40° C to 40° C (-40 $\mathbb F$ to 104 $\mathbb F$).

Installation

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

Lifespan:

 $\bullet\,$ 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.









White

Medium Size: 100W/140W/180W



Large Size: 250W/300W









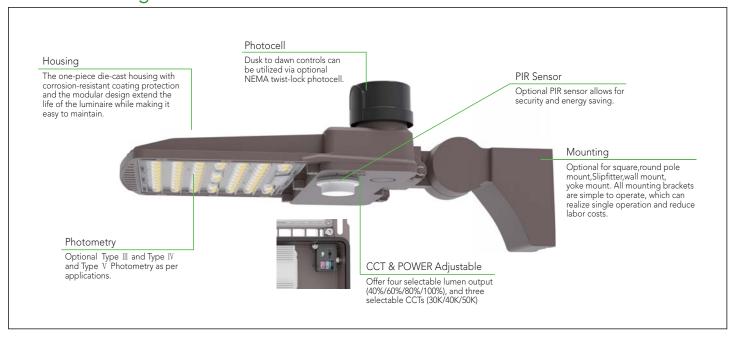
Certifications:

· UL wet location listed

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 $^{\circ}\mathrm{C}$ (±5 $^{\circ}\mathrm{C}$) specifications subject to change without notice.

Structural Design



PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	DIST.TYPE	CRI	LUMENS (3000K)	LPW (3000K)	LUMENS (4000K)	LPW (4000K)	LUMENS (5000K)	LPW (5000K)
100W	120-277V/347-480V	3	70	14200lm	142 lm/W	15800lm	158 lm/W	14600lm	146 lm/W
140W	120-277V/347-480V	3	70	20000lm	143 lm/W	22000lm	157 lm/W	20500lm	146 lm/W
180W	120-277V/347-480V	3	70	24000lm	133 lm/W	26500lm	147 lm/W	25000lm	139 lm/W
250W	120-277V/347-480V	3	70	33500lm	134 lm/W	37000lm	148 lm/W	35000lm	140 lm/W
300W	120-277V/347-480V	3	70	40000lm	133 lm/W	45000lm	150 lm/W	42000lm	140 lm/W

ADJUSTABLE LUMEN OUTPUT TABLE

				140W		180W		250W		300W	
SETTING	DIST.TYPE	SYSTEM WATTS	LUMENS (5000K)								
100%	3	100	14600	140	20500	180	25000	250	34000	300	42000
80%	3	80	12000	110	16500	155	22000	190	28000	240	36000
60%	3	60	9000	85	13500	125	19000	140	22000	180	28500
40%	3	40	6000	60	10000	95	14800	95	15300	120	20000

ELECTRICAL DATA

Number Of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
		100	120	0.83
	1200	100	208	0.48
1	1200	100	240	0.42
'		100	277	0.36
	2520	100	347	0.29
	2320	100	480	0.21
		140	120	1.17
		140	208	0.67
1	1200	140	240	0.58
'	1200	140	277	0.51
		140	347	0.40
		140	480	0.29
		180	120	(Amps) 0.83 0.48 0.42 0.36 0.29 0.21 1.17 0.67 0.58 0.51 0.40 0.29 1.50 0.87 0.75 0.65 0.52 0.38 2.08 1.20 1.04 0.90 0.72 0.52 2.50 1.44 1.25 1.08 0.86
		180	208	0.87
1	960	180	240	0.75
'	960	180	277	(Amps) 0.83 0.48 0.42 0.36 0.29 0.21 1.17 0.67 0.58 0.51 0.40 0.29 1.50 0.87 0.75 0.65 0.52 0.38 2.08 1.20 1.04 0.90 0.72 0.52 2.50 1.44 1.25 1.08 0.86
		180	347	
		180	480	0.38
		250	120	2.08
		250	208	1.20
1	1200	250	240	(Amps) 0.83 0.48 0.42 0.36 0.29 0.21 1.17 0.67 0.58 0.51 0.40 0.29 1.50 0.87 0.75 0.65 0.52 0.38 2.08 1.20 1.04 0.90 0.72 0.52 2.50 1.44 1.25 1.08 0.86
'	1200	250	277	0.90
		250	347	0.72
		250	480	(Amps) 0.83 0.48 0.42 0.36 0.29 0.21 1.17 0.67 0.58 0.51 0.40 0.29 1.50 0.87 0.75 0.65 0.52 0.38 2.08 1.20 1.04 0.90 0.72 0.52 2.50 1.44 1.25 1.08 0.86
		300	120	2.50
		300	208	1.44
1	1500	300	240	1.25
1	1500	300	277	1.08
		300	347	0.86
		300	480	0.63

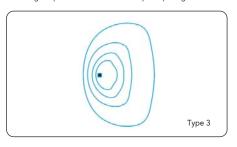
PHOTOMETRICS

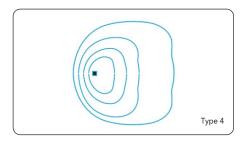
Mester offers a complete set of optical systems to meet every site lighting requirement. These systems provide remarkable flexibility in precisely matching light distribution patterns to specific site requirements.

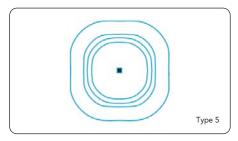
Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern which can extend pole spacings.

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
- 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



Yoke Mount

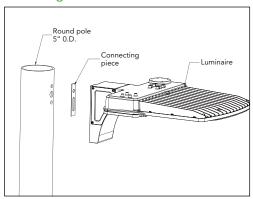
Die-cast aluminum trunnion is easily adapted to many surfaces and allows easy fixture aiming angles.

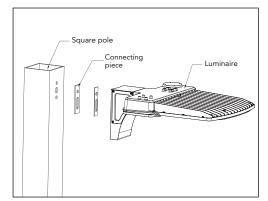


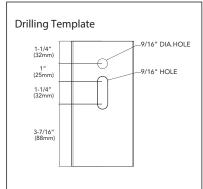
Adjustable Arm Mount

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

Mounting Dimensions

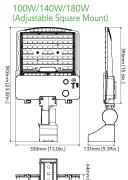




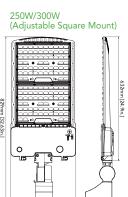


DIMENSION

unit: inch/mm

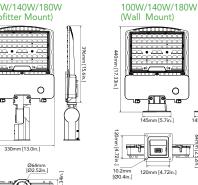




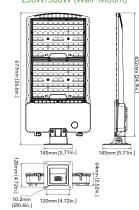


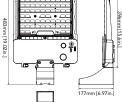
100W/140W/180W (Slipfitter Mount)

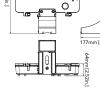




250W/300W (Wall Mount) 250W/300W (Slipfitter Mount)





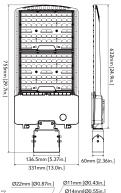


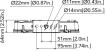
100W/140W/180W

(Pole Mount)

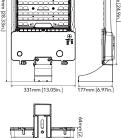
100W/140W/180W (Yoke Mount)

250W/300W (Yoke Mount)









ORDE	RING	GUIDI	E			Example: MAL08 140W 27V XXK Y Y Y Y Y					
Fixture Type	Wattage	Voltage	ССТ	Finish	Photocell (Option)	Sensor (Option)	Mounting	Photometry	CCT and Power Adjustable	Internal Code	
MAL08	100 100W	27V 120-277V	DDK¹	D Dark Bronze	P0 120-277V Photocell	M With Sensor	SQ Square Pole Mount	T3 TYPE Ⅲ	AD¹	Blank	
Area Light Series	140 140W	48V 347-480V	Adjustable color	B Black	P3 347V Photocell	Blank Without Sensor	SP Slipfitter Mount	T4 TYPE IV	With adjustment dial Blank	Alphanumeric	
	180 180W		temperature	W White	P4 480V Photocell		WM Wall Mount	T5 TYPE V	Without adjustment dial		
	250 250W			SG Silver Gray	Blank Without Photocell		YK Yoke Mount	Without a	vvitriout adjustment diai		
	300 300W						SQA Adjustable Square Mount				

Note: CCT adjustable(3000K/4000K/5000K) and power adjustable(100%, 80%, 60%, 40%).

ADDITIONAL MOUNTING ACCESSORIES

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

