

## Specifications

### Construction:

- Rugged one-piece, die-cast aluminum housing secures the thermally conductive LED panel and electrical chamber
- 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 standard 4000 K and 5000 K (70 CRI) configurations.
- Scalable Lumen Packages from 5,360 to 42,000 Lumens replaces up to 1000W Metal Halide.
- Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.
- For the ultimate level of spill light control, an optional house-side shield accessory can be field or factory installed.
- 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(s)
- THD: ≤20%
- Power Factor: ≥90%

### Controls:

- Optional occupancy sensor
- Optional Photocell

### Ambient Temperature:

- Ambient operating temperature -40° C to 45° C (-40° F to 113° F).

### Installation:

- Suitable for mounting heights ranging from 26-40' in area lighting applications
- Round pole, Square pole, slipfitter and wall mount are available
- The design can be operated by one person to install the whole lamp

### Lifespan:

- 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.



Black      Dark Bronze      Silver Gray      White

### Certifications:

- UL wet location listed and DLC qualified

Small Size: 40W/70W/100W



Medium Size: 150W/200W



Large Size: 250W/300W



### Warranty:

CLS warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

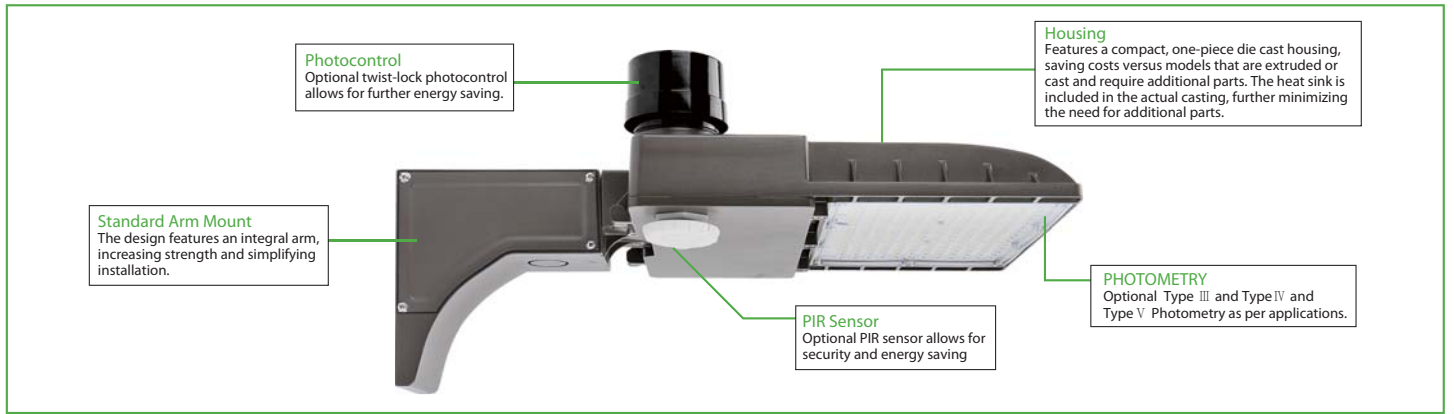
### Note:

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.

## Applications:

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










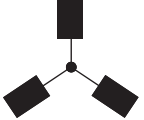

## PERFORMANCE DATA

SYSTEM WATTS	VOLTAGE	DIST. TYPE	4000K(70CRI)		5000K(70CRI)	
			LUMENS	LPW	LUMENS	LPW
40W	120-277V	3	5400lm	135 lm/W	5500lm	138 lm/W
	120-277V	4	5360lm	134 lm/W	5480lm	137 lm/W
	120-277V	5	5600lm	140 lm/W	5720lm	143 lm/W
45W	347-480V	3	5900lm	131 lm/W	6000lm	133 lm/W
	347-480V	4	5850lm	130 lm/W	5940lm	132lm/W
	347-480V	5	6120lm	136 lm/W	6210lm	138 lm/W
70W	120-277V	3	9500lm	136 lm/W	9600lm	137 lm/W
	120-277V	4	9310lm	133 lm/W	9450lm	132 lm/W
	120-277V	5	9730lm	139 lm/W	9800lm	140 lm/W
75W	347-480V	3	9800lm	131 lm/W	10000lm	133 lm/W
	347-480V	4	9750lm	130 lm/W	9900lm	132 lm/W
	347-480V	5	10200lm	136 lm/W	10350lm	138 lm/W
100W	120-277V	3	13500lm	135 lm/W	13800lm	138 lm/W
	120-277V	4	13200lm	132 lm/W	13300lm	133 lm/W
	120-277V	5	13800lm	138 lm/W	13900lm	139 lm/W
150W	120-277V	3	20500lm	137 lm/W	20800lm	139 lm/W
	347-480V	3	21000lm	140 lm/W	21300lm	143 lm/W
	120-277V/347-480V	4	19800lm	132 lm/W	20000lm	133 lm/W
	120-277V	5	20500lm	137 lm/W	20800lm	139 lm/W
	347-480V	5	21000lm	140 lm/W	21000lm	140 lm/W
200W	120-277V/347-480V	3	25500lm	128 lm/W	26000lm	130 lm/W
	120-277V/347-480V	4	24600lm	123 lm/W	24800lm	124 lm/W
	120-277V/347-480V	5	25500lm	128 lm/W	26000lm	130 lm/W
250W	120-277V/347-480V	3	34000lm	136 lm/W	34500lm	138 lm/W
	120-277V/347-480V	4	33250lm	133 lm/W	33750lm	135 lm/W
	120-277V/347-480V	5	34750lm	139 lm/W	35250lm	141 lm/W
300W	120-277V	3	40500lm	135 lm/W	41000lm	137 lm/W
	347-480V	3	41500lm	138 lm/W	42000lm	140 lm/W
	120-277V/347-480V	4	39600lm	132 lm/W	39900lm	133 lm/W
	120-277V	5	40500lm	135 lm/W	41000lm	137 lm/W
	347-480V	5	41500lm	138 lm/W	42000lm	140 lm/W

## ELECTRICAL DATA

Number Of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)		CURRENT (Amps)
1	980	40	120		0.33
		40	208		0.19
		40	240		0.17
		40	277		0.14
		45	347		0.13
		45	480		0.09
1	1720	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	2450	100	120		0.83
		100	208		0.48
		100	240		0.42
		100	277		0.36
		150	120		1.25
1	3900	150	208		0.72
		150	240		0.63
		150	277		0.54
		150	347		0.43
		150	480		0.31
		200	120		1.67
1	5100	200	208		0.96
		200	240		0.83
		200	277		0.72
		200	347		0.58
		200	480		0.42
		250	120		2.08
1	6400	250	208		1.20
		250	240		1.04
		250	277		0.90
		250	347		0.72
		250	480		0.52
		300	120		2.50
1	6000	300	208		1.44
		300	240		1.25
		300	277		1.08
		300	347		0.86
		300	480		0.63

# EPA OF AREA LIGHT

Item							
	1	2 @90°	2 @120°	2@180°	3 @90°	3 @120°	4 @90°
40W/70W/100W	0.3413	0.5929	0.7983	0.6826	1.0239	1.0499	1.0239
150W/200W	0.423	0.735	0.873	0.846	1.158	1.185	1.158
250W/300W	0.4759	0.7889	1.0581	0.9518	1.2648	1.3711	1.2648

# BUG

SYSTEM WATTS	VOLTAGE	DIST. TYPE	B	U	G
40W	120-277V	3	1	0	1
45W	347-480V	3	1	0	1
70W	120-277V	3	2	0	2
75W	347-480V	3	2	0	2
100W	120-277V	3	2	0	2
150W	120-277V/347-480V	3	3	0	3
200W	120-277V/347-480V	3	3	0	3
250W	120-277V/347-480V	3	4	0	4
300W	120-277V/347-480V	3	4	0	4

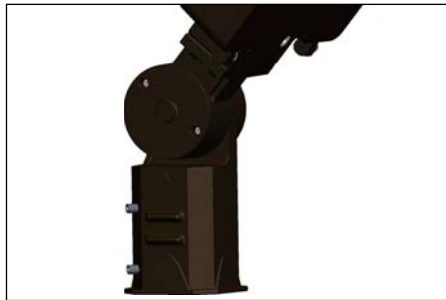
# MOUNTING

- 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.

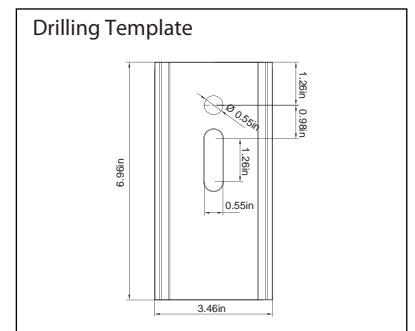
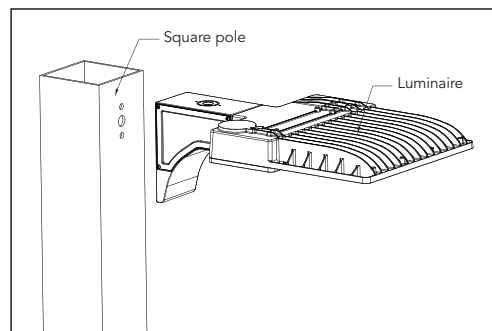
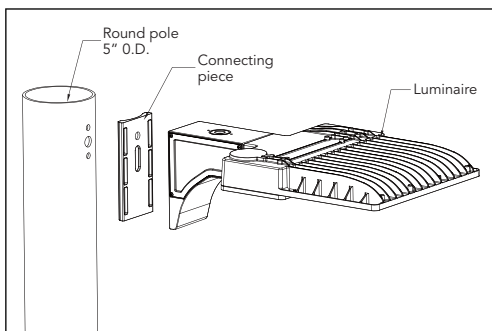


**Slipfitter Mount**  
An optional cast aluminum mast arm adapter secures fixture head to nominal 2"(2-3/8" O.D. pipe size) horizontal steel tenon arm.



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

## Mounting Dimensions



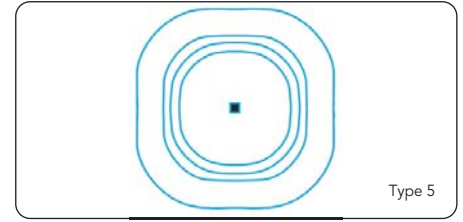
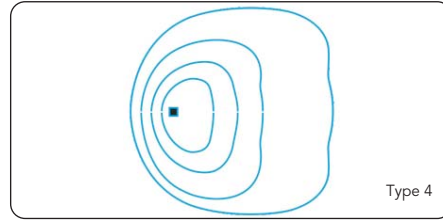
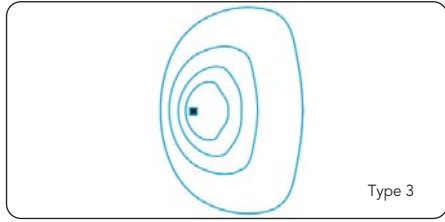
# PHOTOMETRICS

We 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.

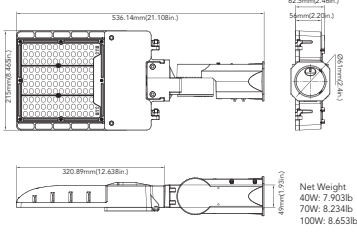
Type 5 optics produce a symmetrical square distribution pattern that distributes light equally on all sides of the luminaire. Type 5 luminaires is universal for most area lighting applications



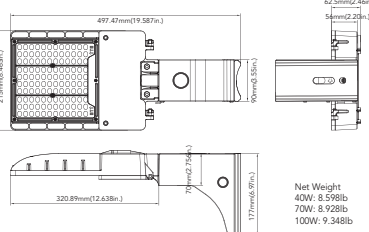
## DIMENSION

unit: inch/mm

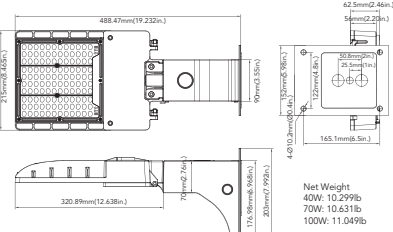
### 40W/70W/100W (Slipfitter Mount)



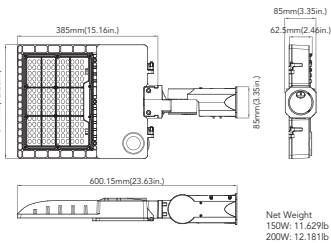
### 40W/70W/100W (Pole Mount)



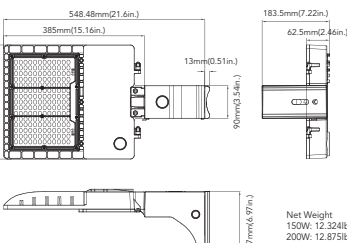
### 40W/70W/100W (Wall Mount)



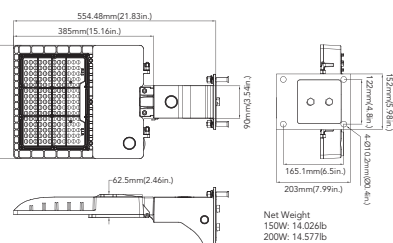
### 150W/200W (Slipfitter Mount)



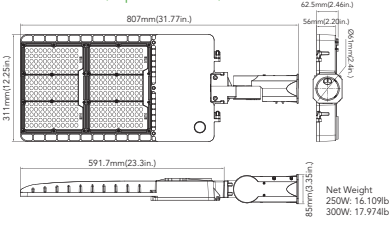
### 150W/200W (Pole Mount)



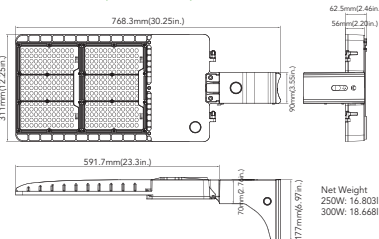
### 150W/200W (Wall Mount)



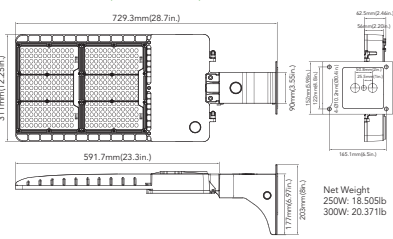
### 250W/300W (Slipfitter Mount)



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



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



## ORDERING GUIDE

Example: CLSMAL04 100W 27V XXK Y Y Y Y Y

Fixture Type	Wattage	Voltage	CCT	Finish	Photocell (Option)	Sensor (Option)	Mounting	Photometry	Surge Protection (Option)
<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"/>	<input type="checkbox"/>
CLSMAL04 Area Light Series	40 40W	27V 120-277V	40K 4000K	D Dark Bronze	P0 120-277V Photocell	M With 120-277V Sensor	SQ Square Pole Mount	T3 TYPE III Photometry	S Surge protection
	45 45W	48V 347-480V	50K 5000K	B Black	P3 347V Photocell	Blank Without Sensor	SP Slipfitter Mount	T4 TYPE IV Photometry	(Blank) No Surge protection
	70 70W			W White	P4 480V Photocell		WM Wall Mount	T5 TYPE V Photometry	
	75 75W			SG Silver Gray	Blank Without Photocell				
	100 100W								

Note: 1. 100W is limited to 120-277V input only.  
2. The Watt is 40W when the voltage is 120-277V, while when it is 347-480V, the watt is 45W.  
3. The Watt is 70W when the voltage is 120-277V, while when it is 347-480V, the watt is 75W.

Example: CLSMAL04 150W 27V XXK Y Y Y Y Y

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"/>
CLSMAL04 Area Light Series	150 150W	27V 120-277V	40K 4000K	D Dark Bronze	P0 120-277V Photocell	M With 120-277V Sensor	SQ Square Pole Mount	T3 TYPE III Photometry
	200 200W	48V 347-480V	50K 5000K	B Black	P3 347V Photocell	Blank Without Sensor	SP Slipfitter Mount	T4 TYPE IV Photometry
	250 250W			W White	P4 480V Photocell		WM Wall Mount	T5 TYPE V Photometry
	300 300W			SG Silver Gray	Blank Without Photocell			

# DLC Model NO.

SYSTEM WATTS	VOLTAGE	CCT	DIST.TYPE	DLC NO.	DLC Classification
300W	120-277V	4000K	3	MAL04300W27V40K[D,B,W,SG][Blank,P0,P3,P4][Blank,M][SQ,SP,WM]T3	Premium
		5000K	3	MAL04300W27V50K[D,B,W,SG][Blank,P0,P3,P4][Blank,M][SQ,SP,WM]T3	Premium