

## SPECIFICATIONS

### Construction:

- Thermally conductive LED panel and electrical chamber are securely housed within a durable one-piece die-cast aluminum enclosure.
- 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 CCT Selectable, 3000K, 4000K, and 5000K.
- Scalable Lumen Packages from 9,600 to 60,500 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
- 10KA(@120-277V) or 20KA(@480V) surge protection
- Standard with 1-10V dimming driver(s) from 10% to 100%
- Power adjustable: 100%, 80%, 60%, 40%.
- THD: ≤20%
- Power Factor: ≥90%

### Controls:

- Optional occupancy sensor or Microwave sensor.
- Optional NEMA 3-pin photocell or 7-pin photocell (Wall Mount Bracket Only)

### Ambient Temperature:

- Ambient operating temperature -40°F to 113°F.
- The ambient temperature of 400W is: -40°F to 104°F.

### Installation:

- Mounting heights ranging from 26-50ft in area lighting applications.
- Round pole, Square pole, slipfitter, wall mount and Trunnion are available.

### Lifespan:

- Estimated 70,000-hour LED lifespan based
- on IES LM-80 results and TM-21 calculations

Project:	Date
Type:	
Model:	

Medium Size: 140W



Large Size: 300W / 400W



### Finish:

			
Black RAL9011	Dark Bronze RAL8019	Silver RAL7045	White RAL9016

## ORDER INFORMATION

EXAMPLE: BAL-WS300-Y-CCTS-3M-SF-BK



Series	Wattage Selectable	Voltage	CCT	Optics	Mounting	Sensor options	Back-light Shield	Finish
BAL Area Light	<b>WS140</b> (140W / 120W / 90W / 60W)	<b>Y</b> 120-277V	<b>CCTS</b> (Color Temp. Selectable) 3000K / 4000K / 5000K	<b>2M</b>	<b>SF</b> Slip Fitter	<b>Blank</b> No sensor	<b>Blank</b> No shield	<b>BK**</b> Black
				<b>3M</b>	<b>TR</b> Trunnion	<b>MS</b> Motion Sensor	<b>BS</b> Back-light Shield	<b>WH**</b> White
	<b>WS300</b> (300W / 240W / 180W / 120W)	<b>HV</b> 480V	<b>CCTS</b> (Color Temp. Selectable) 4000K / 5000K*	<b>4M</b>	<b>WM</b> Wall Mount	<b>MW</b> Microwave Sensor	<b>FBS</b> Full Back-light Shield	<b>BZ</b> Bronze
	<b>WS400*</b> (400W / 360W / 320W / 300W)			<b>5M</b>	<b>ADJ</b> Adjustable Arm Mount	<b>PPC</b> Plug & play photocell	<b>BCS</b> Back-light control Shield	<b>SV**</b> Silver
					<b>DA</b> Direct Arm Mount			
					<b>DA-PC</b> Direct Arm w/ Photocell			
					<b>DA-PC4</b> Direct Arm w/ Photocell (480VAC)			

Enter configuration:

\*\* Special Order / \* 400W CCT Selectable 40K / 50K Only

Dimensions and values shown are nominal. LuminosoLED continually works to improve products and reserves the right to make changes which may alter the performance or appearance of products.

PERFORMANCE DATA

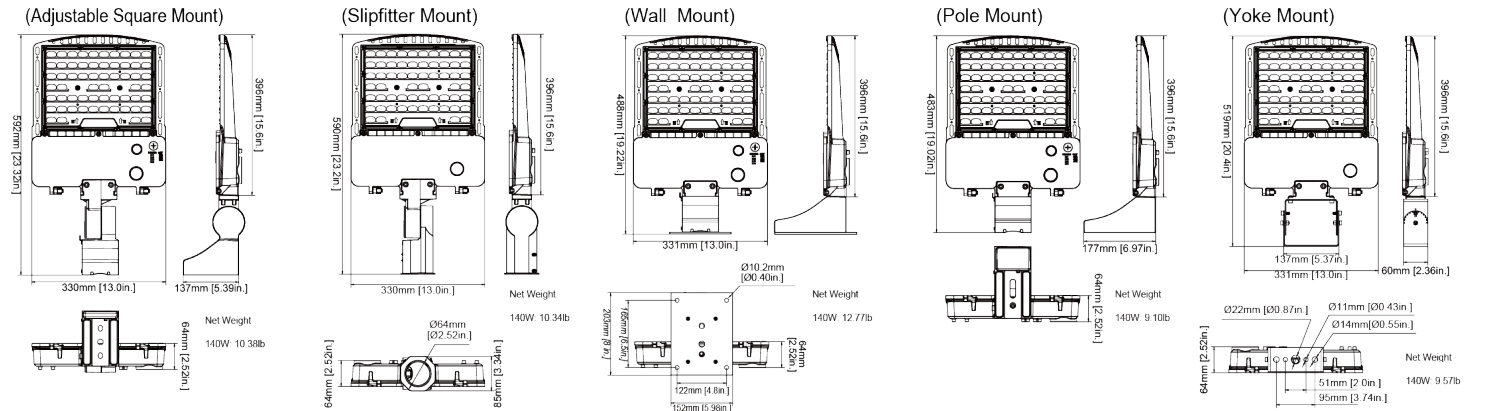
BAL-140W									
SETTING	SYSTEM WATTS	DIST.TYPE	CRI	3000K		4000K		5000K	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	140W	2	70	20,000lm	147 lm/W	23,000lm	164 lm/W	21,000lm	150 lm/W
		3	70	20,000lm	147 lm/W	23,000lm	164 lm/W	21,000lm	150 lm/W
		4	70	20,000lm	147 lm/W	23,000lm	164 lm/W	21,000lm	150 lm/W
		5	70	21,000lm	150 lm/W	23,500lm	168 lm/W	21,500lm	154 lm/W
80%	120W	2	70	18,000lm	150 lm/W	20,000lm	167 lm/W	18,500lm	154 lm/W
		3	70	18,000lm	150 lm/W	20,000lm	167 lm/W	18,500lm	154 lm/W
		4	70	18,000lm	150 lm/W	20,000lm	167 lm/W	18,500lm	154 lm/W
		5	70	18,500lm	154 lm/W	20,500lm	171 lm/W	19,000lm	158 lm/W
60%	90W	2	70	13,800lm	153 lm/W	15,200lm	169 lm/W	14,200lm	158 lm/W
		3	70	13,800lm	153 lm/W	15,200lm	169 lm/W	14,200lm	158 lm/W
		4	70	13,800lm	153 lm/W	15,200lm	169 lm/W	14,200lm	158 lm/W
		5	70	14,000lm	156 lm/W	15,600lm	172 lm/W	14,500lm	161 lm/W
40%	60W	2	70	9,400lm	157 lm/W	10,300lm	172 lm/W	9,700lm	162 lm/W
		3	70	9,400lm	157 lm/W	10,300lm	172 lm/W	9,700lm	162 lm/W
		4	70	9,400lm	157 lm/W	10,300lm	172 lm/W	9,700lm	162 lm/W
		5	70	9,600lm	160 lm/W	10,500lm	175 lm/W	10,000lm	167 lm/W

BAL-300W									
SETTING	SYSTEM WATTS	DIST.TYPE	CRI	3000K		4000K		5000K	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	300W	2	70	41,000lm	137 lm/W	45,000lm	150 lm/W	42,000lm	140 lm/W
		3	70	41,000lm	137 lm/W	45,000lm	150 lm/W	42,000lm	140 lm/W
		4	70	41,000lm	137 lm/W	45,000lm	150 lm/W	42,000lm	140 lm/W
		5	70	42,500lm	142 lm/W	46,000lm	153 lm/W	43,500lm	145 lm/W
80%	240W	2	70	33,600lm	140 lm/W	37,000lm	154 lm/W	34,500lm	144 lm/W
		3	70	33,600lm	140 lm/W	37,000lm	154 lm/W	34,500lm	144 lm/W
		4	70	33,600lm	140 lm/W	37,000lm	154 lm/W	34,500lm	144 lm/W
		5	70	34,500lm	144 lm/W	38,000lm	158 lm/W	35,500lm	148 lm/W
60%	180W	2	70	26,000lm	144 lm/W	28,600lm	159 lm/W	26,600lm	148 lm/W
		3	70	26,000lm	144 lm/W	28,600lm	159 lm/W	26,600lm	148 lm/W
		4	70	26,000lm	144 lm/W	28,600lm	159 lm/W	26,600lm	148 lm/W
		5	70	26,600lm	148 lm/W	29,700lm	165 lm/W	27,500lm	153 lm/W
40%	120W	2	70	18,000lm	150 lm/W	20,000lm	167 lm/W	18,500lm	154 lm/W
		3	70	18,000lm	150 lm/W	20,000lm	167 lm/W	18,500lm	154 lm/W
		4	70	18,000lm	150 lm/W	20,000lm	167 lm/W	18,500lm	154 lm/W
		5	70	18,500lm	154 lm/W	20,800lm	173 lm/W	19,000lm	158 lm/W

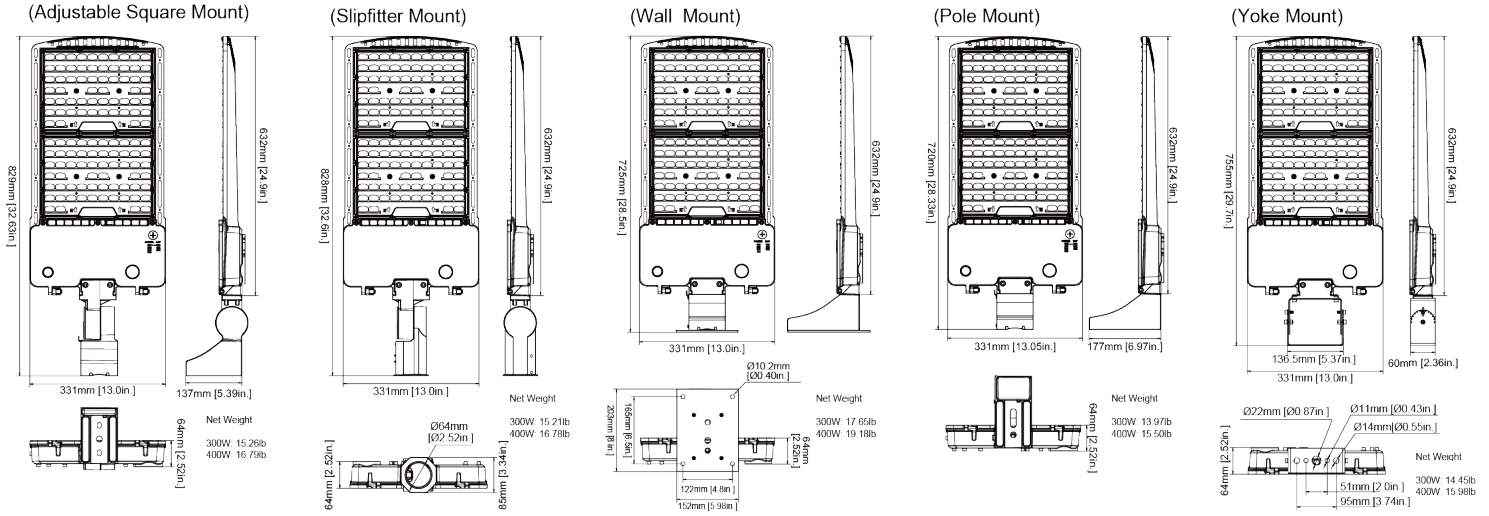
BAL-400W							
SETTING	SYSTEM WATTS	DIST. TYPE	CRI	4000K		5000K	
				LUMENS	LPW	LUMENS	LPW
LV1	400W	2	70	60,500lm	151 lm/W	60,000lm	150 lm/W
		3	70	60,500lm	151 lm/W	60,000lm	150 lm/W
		4	70	60,500lm	151 lm/W	60,000lm	150 lm/W
		5	70	61,000lm	153 lm/W	60,800lm	152 lm/W
LV2	360W	2	70	56,000lm	156 lm/W	55,000lm	153 lm/W
		3	70	56,000lm	156 lm/W	55,000lm	153 lm/W
		4	70	56,000lm	156 lm/W	55,000lm	153 lm/W
		5	70	56,500lm	157 lm/W	55,500lm	154 lm/W
LV3	320W	2	70	51,000lm	159 lm/W	50,000lm	156 lm/W
		3	70	51,000lm	159 lm/W	50,000lm	156 lm/W
		4	70	51,000lm	159 lm/W	50,000lm	156 lm/W
		5	70	51,500lm	161 lm/W	50,500lm	159 lm/W
LV4	300W	2	70	47,000lm	162 lm/W	46,000lm	159 lm/W
		3	70	47,000lm	162 lm/W	46,000lm	159 lm/W
		4	70	47,000lm	162 lm/W	46,000lm	159 lm/W
		5	70	47,500lm	164 lm/W	46,500lm	160 lm/W

BAL-140W

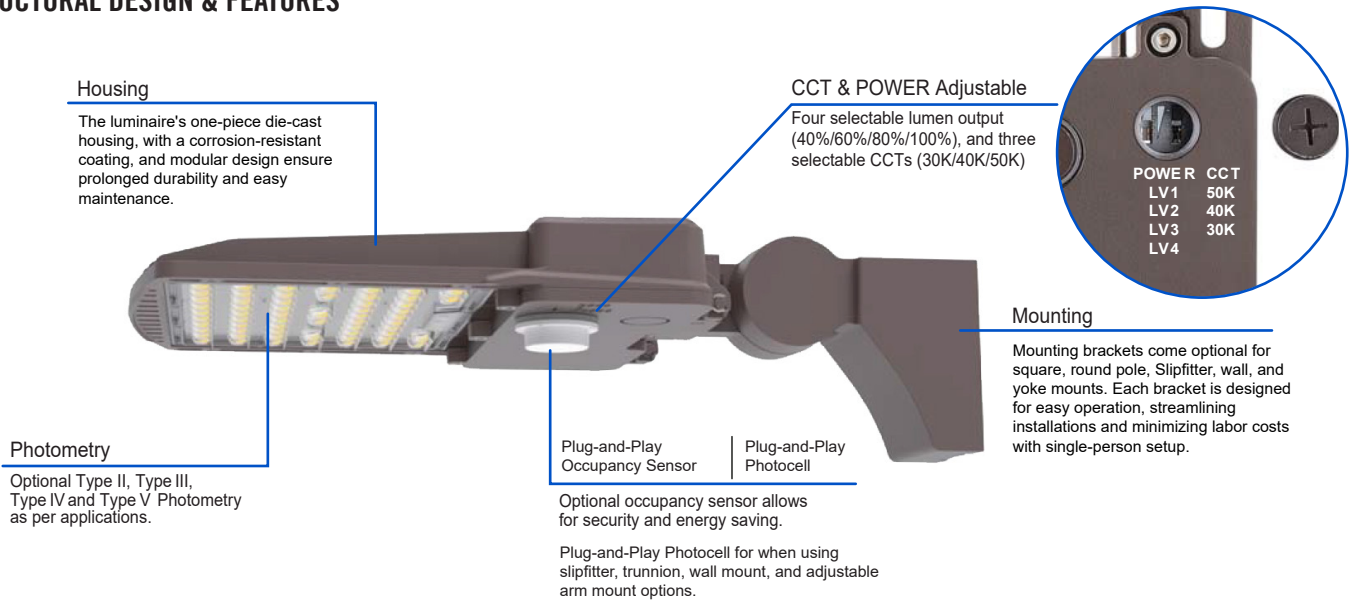
DIMENSIONS



BAL-300W / 400W



## STRUCTURAL DESIGN & FEATURES



## MOUNTING OPTIONS

- 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 Luminoso LED mounting adaptors such as Tenon, suits for various application)



**Arm Mount**  
(4" and 5" Square and Round poles)  
The installation of the versatile mounting arm is straightforward, and it can easily be utilized with existing poles for retrofitting purposes.



**Slipfitter Mount**  
A cast aluminum mast arm adapter is available as an option to securely attach the fixture head to a horizontal steel tenon arm with a nominal 2-3/8" O.D. dimension.



**Wall Mount**  
The Wall Mount option offers easy installation for direct wall mounting, accommodating either 1/2" conduit wiring or standard J-box mounting.

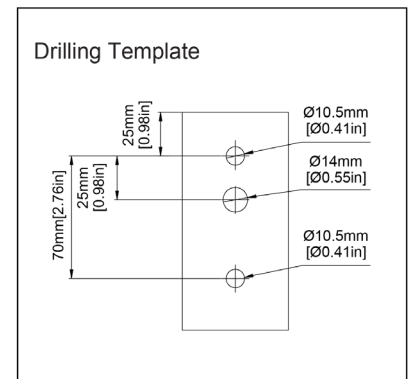
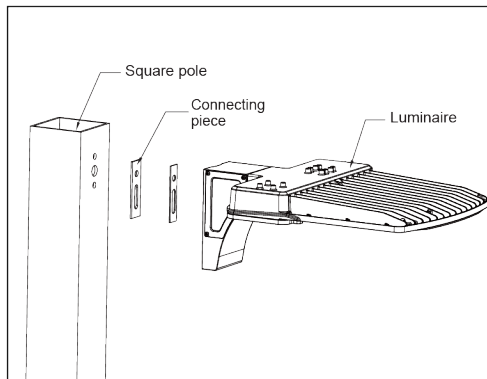
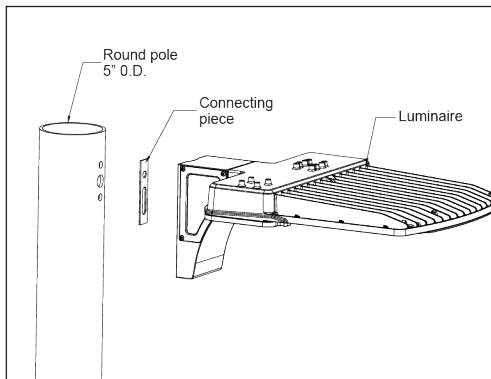


**Trunnion Mount**  
The die-cast aluminum trunnion is highly adaptable to various surfaces and facilitates effortless adjustment of fixture aiming angles.






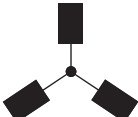



**Adjustable Arm Mount**  
The versatile mounting arm, designed for standard use, offers straightforward installation and compatibility with existing poles for retrofitting applications.

## MOUNTING DIMENSIONS



EPA (Area Light)

Item							
	1	2 @90°	2 @120°	2@180°	3 @90°	3 @120°	4 @90°
140W	0.3632	0.6849	0.8861	0.7264	1.0481	1.2078	1.0481
300W/400W	0.4758	0.8091	1.059	0.9516	1.2849	1.3923	1.2849

PHOTOMETRICS

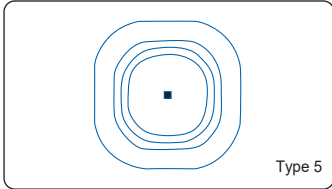
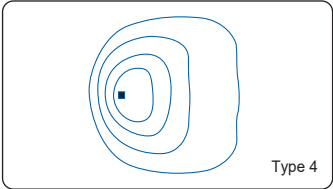
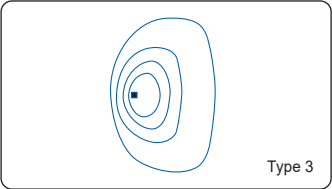
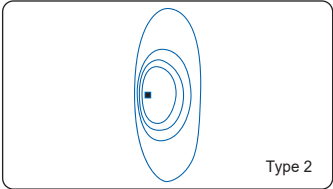
Luminoso LED provides a comprehensive range of optical systems, catering to diverse site lighting needs. Offering exceptional flexibility, these systems enable precise customization of light distribution patterns to perfectly align with specific site requirements.

Type 2 optics are optimal for scenarios requiring luminaires to be spaced at greater intervals along roads or pathways. Designed for elongated areas, these optics offer an optimized light distribution pattern, allowing increased pole spacing without compromising lighting quality.

Type 3 optics generate an asymmetrical light pattern, directing the majority of light forward and evenly on both sides of the luminaire. When arranged in a back-to-back configuration, it forms a rectangular pattern, effectively extending pole spacings.

Type 4 optics are ideal for applications where forward light is predominantly needed with minimal backlight. Common installations include perimeter poles and similar setups.

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.



Back Shield / Motion Sensor Accessories

					
External Glare Back Shield		External Glare Full Visor		Back Light Control Shield	
					
Plug-and-Play PIR Sensor PIR sensor: MSANT12VPH01		Plug-and-Play Microwave Sensor Microwave sensor: MSANT12VMH01		NEMA Photocell 3 pin NEMA Type: MS-PSUNVB1 3 pin NEMA Type(480V): JL-207F 7 pin NEMA Type: JL-241C	
					
Plug-and-Play Photocell Photocell: ANT-5-4T-PC					