

SPECIFICATIONS

Project:	Date
Type:	
Model:	

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

Medium Size: 140W



Large Size: 300W / 400W



Finish:



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

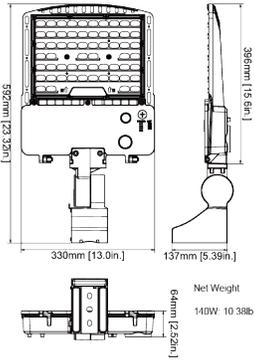
BAL-300W									
SETTING	SYSTEM WATTS	DIST.TYPE	CRI	3000K		4000K		5000K	
				LUMENS	LPW	LUMENS	LPW	LUMENS	LPW
100%	300W	2	70	41,000lm	137 lm/W	45,000lm	150 lm/W	42,000lm	140 lm/W
		3	70	41,000lm	137 lm/W	45,000lm	150 lm/W	42,000lm	140 lm/W
		4	70	41,000lm	137 lm/W	45,000lm	150 lm/W	42,000lm	140 lm/W
		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

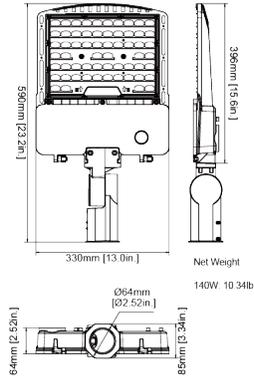
BAL-140W

DIMENSIONS

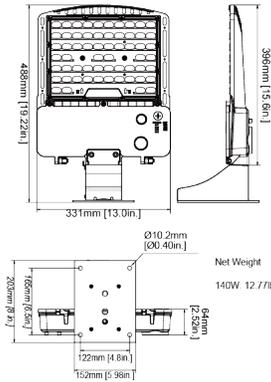
(Adjustable Square Mount)



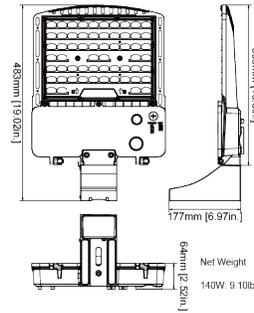
(Slipfitter Mount)



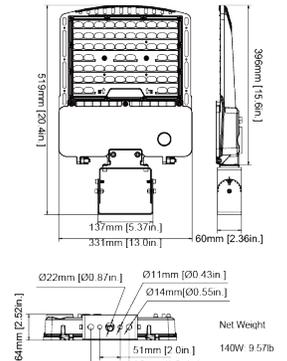
(Wall Mount)



(Pole Mount)

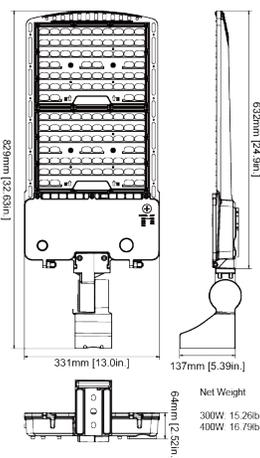


(Trunnion Mount)

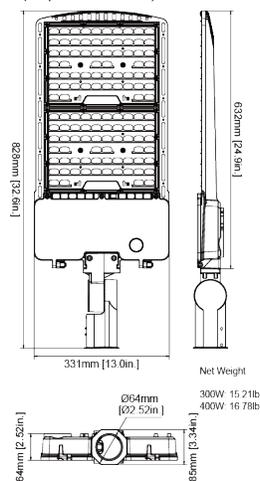


BAL-300W / 400W

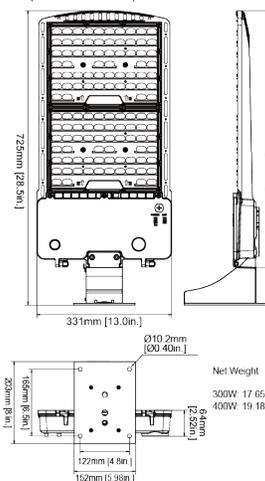
(Adjustable Square Mount)



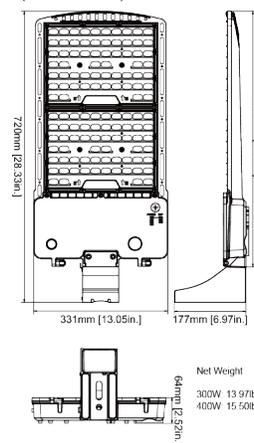
(Slipfitter Mount)



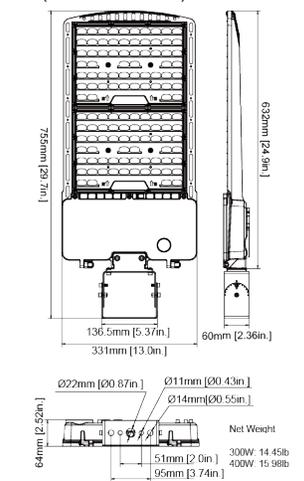
(Wall Mount)



(Pole Mount)



(Trunnion Mount)



STRUCTURAL DESIGN & FEATURES

Housing
The luminaire's one-piece die-cast housing, with a corrosion-resistant coating, and modular design ensure prolonged durability and easy maintenance.

CCT & POWER Adjustable
Four selectable lumen output (40%/60%/80%/100%), and three selectable CCTs (30K/40K/50K)

Mounting
Mounting brackets come optional for square, round pole, Slipfitter, wall, and yoke mounts. Each bracket is designed for easy operation, streamlining installations and minimizing labor costs with single-person setup.

Photometry
Optional Type II, Type III, Type IV and Type V Photometry as per applications.

Plug-and-Play Occupancy Sensor
Optional occupancy sensor allows for security and energy saving.

Plug-and-Play Photocell
Plug-and-Play Photocell for when using slipfitter, trunnion, wall mount, and adjustable arm mount options.

POWER	CCT
LV1	50K
LV2	40K
LV3	30K
LV4	

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.

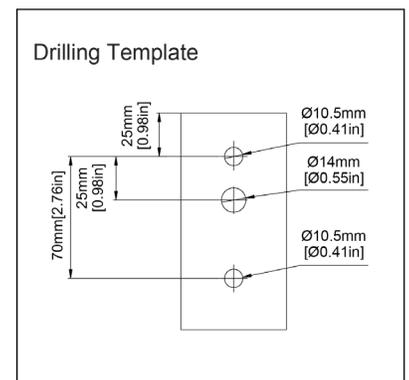
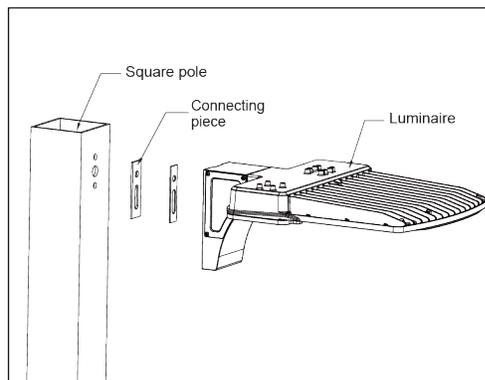
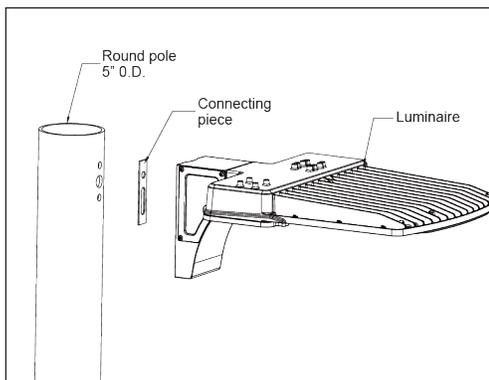


Trunnion Mount
The die-cast aluminum trunnion is highly adaptable to various surfaces and facilitates effortless adjustment of fixture aiming angles.



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

MOUNTING DIMENSIONS



PHOTOMETRICS

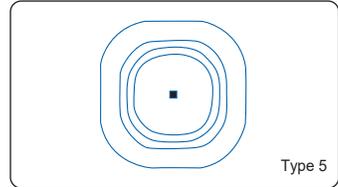
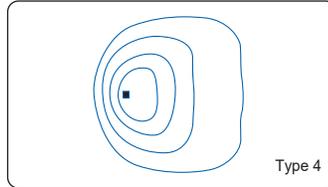
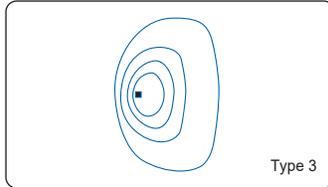
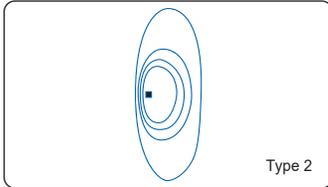
Luminoso LED provides a comprehensive range of optical systems, catering to diverse site lighting needs. Offering exceptional flexibility, these systems enable precise customization of light distribution patterns to perfectly align with specific site requirements.

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.

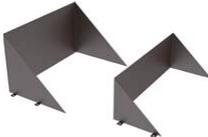
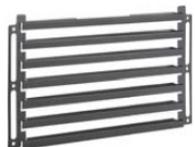
Type 3 optics generate an asymmetrical light pattern, directing the majority of light forward and evenly on both sides of the luminaire. When arranged in a back-to-back configuration, it forms a rectangular pattern, effectively extending pole spacings.

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

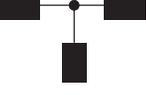
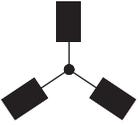
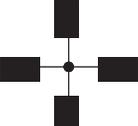
Type 5 optics produce a symmetrical square distribution pattern that distributes light equally on all sides of the luminaire. Type 5 luminaires is universal for most area lighting applications.



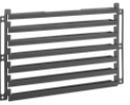
Back Shield / Motion Sensor Accessories

				
<p>External Glare Back Shield</p>		<p>External Glare Full Visor</p>		<p>Back Light Control Shield</p>
				<p><i>ONLY available with Direct Arm Mount</i></p>
<p>Plug-and-Play PIR Sensor PIR sensor: MSANT12VPH01</p>	<p>Plug-and-Play Microwave Sensor Microwave sensor: MSANT12VMH01</p>	<p>NEMA Photocell 3 pin NEMA Type: MS-PSUNVB1 3 pin NEMA Type(480V): JL-207F 7 pin NEMA Type: JL-241C</p>		
				
<p>Plug-and-Play Photocell Photocell: ANT-5-4T-PC</p>				

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

EPA (with Glare Shields)

Model	Photo	Description	EPA
BS-150		Small Size External Glare Shield	0.312
BS-300		Large Size External Glare Shield	0.4991
FBS-150		Small Size External Glare Full Visor	0.1851
FBS-300		Large Size External Glare Full Visor	0.3632
BCS		House Side Shield	0.0233