

BLX-II-TS LED Specifications

Wildlife Certified

Area - Site - Commercial - Outdoor



BLX-II-4 Bolt On Arm Mount Shown

The new BOW LX II LED Series continues the unique contemporary design inspired by the sleek styling of the BOW family. Separating the extruded aluminum driver housing and the individual die-cast aluminum linear LED engines: optimize the life of the LEDs and the Driver(s); and maximizes the lumen output of the fixture. The adjustable knuckle allows for up to 50° degrees of vertical adjustment for putting the light exactly where you need it.

Each of the individual LED light engines come with 32 LEDs; for a max total of 256 LEDs. Our Turtle Safe and Wildlife Certified LEDs operates at 590nm. Sixteen optical distribution patterns are available.

The BOW LX II LED Series offers an impressive output of up to 32,000 lumens with a wattage package reaching up to 405 watts, delivering an average efficiency of 85 lumens per watt. With integrated controls, the BOW LX II ensures optimal lighting coverage while minimizing energy consumption.

A durable polyester powder coat finish is guaranteed for five years; and is available in standard or custom colors.

The BOW LX II LED series is an exceptional choice for auto dealerships, shopping centers, commercial parking lots and general area lighting.

Project Name:

Catalog Number:

Type:

Date:

Location:

The Wildlife Lighting Program was developed by the Department of the Interior's U.S. Fish and Wildlife Service and the Florida Fish and Wildlife Conservation Commission to address light pollution issues in ecologically sensitive areas while ensuring human safety and security.



MODEL	OPTICS		LEDs	CURRENT	WAVELENGTH
BLX-II-3	T1 Type 1	T5 Type 5	96LD	3 350mA	TS 590nm
BLX-II-4	T2 Type 2	T5W Type 5 Wide	128LD	5 530mA	
BLX-II-6	T3 Type 3	T5WW Type 5			
	T3R Type 3 Round	Extra Wide	192LD		
	T3W Type 3 Wide	T5LG Type 5 Low Glare			
BLX-II-8	T3LG Type 3 Low Glare	FN Flood Narrow	256LD		
	T4A Type 4	FM Flood Medium			
	T4 Type 4	FW Flood Wide			
	T4LG Type 4 Low Glare				

VOLTAGE	MOUNTING	FINISH	CONTROL OPTIONS	SHIELD OPTIONS	OPTIONS	
UNV 120-277V	PT Post Top	WM Wall Mount BLX-III-3 & BLX-III-4 Only	BZ Bronze	PCR-120 PCR-208 PCR-240 PCR-277 PCR-347 PCR-480 Photocell & Receptacle	CLS Backside cutoff shield	RPP-3" RPP-4" RPP-5" Round Pole Plate Adaptor
8 347V	MA Mast Arm Fitter	AWM Adjustable Wall Mount BLX-III-3 & BLX-III-4 Only	BK Black	7PINPER 7 Pin Photo Receptacle w/shorting cap Requires Dimming Driver	RCLS Rightside cutoff shield	DS Decorative Shroud
5 480V	KM Knuckle Mount	BAWP Bolt-On Arm Wall Plate *BLX-III-3 & BLX-III-4 only	GY Grey	DIM 0-10v Dimming Driver	LCLS Leftside cutoff shield	ROT-R Rotated Optics Right Side
	BOA Bolt-On Arm	BAWP-XL Bolt-On Arm Wall Plate-XL *BLX-III-6 & BLX-III-8 only	SBK Smooth	DTO Dim to Off Driver	BHS House shield	ROT-L Rotated Optics Left Side
	AM Arm Mount Extended arm is needed for the BLX-III-6 & BLX-III-8 in D9, T9, T120 & QD configurations *extended arm sold separately		WH White	WSP6-L2 WSP6-L3 WSP6-L7 8' Mounting Height 9-20' Mounting Height 21-40' Mounting Height		UPMA-S Universal Square Pole Mount Adaptor *Not available with BLX-II-8
	TM Trunnion Mount		SWH Smooth	WSC-8 WSC-20 WSC-40 8' Mounting Height 9-20' Mounting Height 21-40' Mounting Height		UPMA-R Universal Round Pole Mount Adaptor *Not available with BLX-II-8
			GP Graphite	*The WSC option will require (1) FSIR 100 remote for programming		BBG Bird Spikes
			GY Grey	TL7 7-PIN Twist-lock Wireless Control		BAA Buy America(n) Act Compliant
			SL Silver Metallic	Z10 or Z18 Zhaga 4 Pin Receptacle		BABA Build America Buy American
			ZFP Zinc-Free Primer Coat	VVC Visionaire Wireless Control		
			CC Custom Color	20kA		

Housing

The LED light engines are constructed of heavy-duty, die-cast aluminum, with external heat radiating fins.

Driver Compartment

The separate driver housing is constructed of extruded aluminum, with vented cast aluminum end covers and stainless steel fasteners; for easy access to the LED driver(s); allowing for cooler operation and longer driver life. One-piece gaskets are utilized throughout the fixture for weather tight operation.

Thermal Management

The BOW LX II Series provides excellent overall thermal management by maximizing the fixture's heat sink capabilities. This enables the BOW LX II Series to withstand higher ambient temperatures and drive currents without degrading LED life.

The L70 test determines the point in an LEDs life when it reaches 70 percent of its initial output. The BOW LX II Series LEDs have been determined to last a minimum of 100,000 hours in 25°C environments when driven at 350 mA.

Optical System

The highest lumen output, LEDs are utilized in the BOW LX II Series. Available with 16 IES distribution patterns. LED light engines come in multiples of 32 LEDs.

- LED Wavelength 590nm

Quali-Guard® Finish

The finish is a Quali-Guard® textured, chemically pretreated through a multiple-stage washer, electrostatically applied, thermoset polyester powder coat finish, with a minimum of 3-5 mils thickness. Finish is oven-baked at 400 °F to promote maximum adherence and finish hardness.

- All finishes are available in standard and custom colors.
- Optional Zinc-Free Primer - Recommended within three miles of the ocean
- Finish is guaranteed for five (5) years.

Mounting

An adjustable knuckle slip fits over a 2 3/8" Tenon, and allows for up to 50° degrees of vertical adjustment in 10° degree increments from horizontal, as well as full side to side adjustment with the knuckle mount.

The Bolt-On Arm (BOA) utilizes a 2 piece cleat system for easy installation. A Round Pole Plate Adaptor (RPP) is required for mounting to round poles.

- Mast Arm Fitter fits over a 2 3/8" tenon.
- Post Top fits over a 2 3/8" tenon and is adjustable up to 45°.
- Trunnion Mount is adjustable up to 50°
- Adjustable Wall Mount
- Bolt-On Arm Wall Plate
- Bolt-On Arm Wall Plate-XL

Electrical Assembly

The BOW LX II Series is supplied with a choice of 350, 530 mA high-performance LED drivers, that accept 120v thru 480v, 50 Hz to 60 Hz, input.

- Rated for -40°C to +55°C operations.
- Power factor of 90%.
- THD less than or equal to 20%
- 20 kA surge protector supplied as standard.
- 0-10v Dimming Driver supplied as standard.

Warranty

Five (5) year Limited Warranty on entire system, including finish. For full warranty information, please visit VisionaireLighting.com.

Options

- Wattstopper Plus
- Wattstopper FSP-211 Motion Sensor/Control
- Photocell & Receptacle
- 7 Pin Photo Receptacle
- Dimming Driver
- Dim To Off Driver
- Wireless Controls
- Zhaga 4 Pin Receptacle
- Round Pole Plate Adapter
- Universal Pole Mount Adapter
- Decorative Shroud
- Rotated Optics
- Cut-off Louver Shield
- Bird Spikes
- BAA / BABA

Listings

- BOW LX II Series is UL listed, suitable for wet locations
- Meets ANSI C136.31-2010 3G Vibration Standards
- Powder Coated Tough™
- IP-66 Rated
- IDA Certification
- Certified Wildlife Lighting



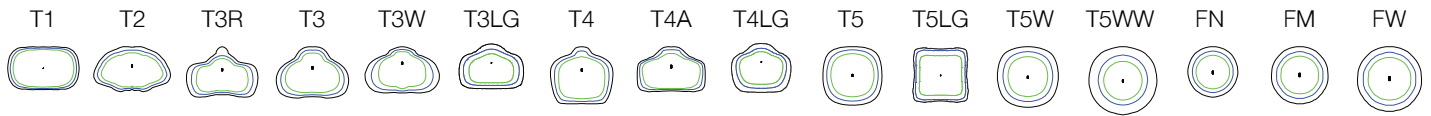
3000K or lower must be selected with a fixed mount for IDA certification.
Fixed mount must be selected for IDA dark sky certification.

Motion Sensor Default Settings

FSP - 211	High Mode	Low Mode	Time Delay	Cut Off Delay	Sensitivity	Hold Off Setpoint	Photocell On/Off	Ramp Up Time	Fade Down Time
WSC - Default	10V	1V	5 Minutes	1 Hour	Maximum	4ft	Disabled	Disabled	Disabled
WSC Range	0-10V	0-9.8V	5-30 Minutes	1-5	Low, Med, Max	1-250FC	1-250FC	1-60 Dec	1-60Dec

* Settings can be field modified with the FSIR-100 Programming remote

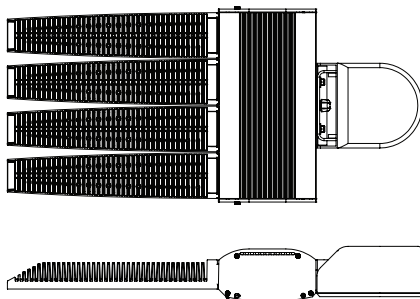
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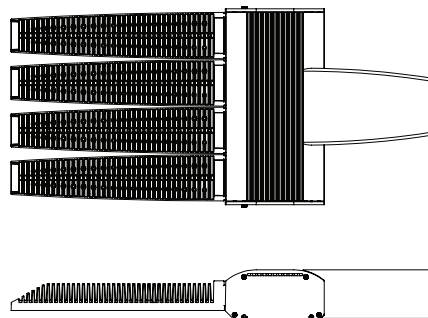
Dimensions

Post Top		Mast Arm		Knuckle Mount		Bolt-On Arm		Trunnion		Adjustable Wall Mount	
Width: BLX-II-3	15"	Width: BLX-II-3	15"	Width: BLX-II-3	15"	Width: BLX-II-3	15"	Width: BLX-II-3	15"	Width: BLX-II-3	15"
BLX-II-4	17"	BLX-II-4	17"	BLX-II-4	17"	BLX-II-4	17"	BLX-II-4	17"	BLX-II-4	17"
BLX-II-6	28"	BLX-II-6	28"	BLX-II-6	28"	BLX-II-6	28"	BLX-II-6	28"	BLX-II-6	28"
BLX-II-8	33"	BLX-II-8	33"	BLX-II-8	33"	BLX-II-8	33"	BLX-II-8	33"	BLX-II-8	33"
Depth: BLX-II-3	36"	Depth: BLX-II-3	36"	Depth: BLX-II-3	37"	Depth: BLX-II-3	34"	Depth: BLX-II-3	33"	Depth: BLX-II-3	33"
BLX-II-4	36"	BLX-II-4	36"	BLX-II-4	37"	BLX-II-4	34"	BLX-II-4	33"	BLX-II-4	33"
BLX-II-6	36"	BLX-II-6	36"	BLX-II-6	37"	BLX-II-6	34"	BLX-II-6	33"	BLX-II-6	33"
BLX-II-8	36"	BLX-II-8	36"	BLX-II-8	37"	BLX-II-8	34"	BLX-II-8	33"	BLX-II-8	33"
Height: BLX-II-3	6"	Height: BLX-II-3	5"	Height: BLX-II-3	5"	Height: BLX-II-3	5"/9"	Height: BLX-II-3	5"	Height: BLX-II-3	5"/8"
BLX-II-4	6"	BLX-II-4	5"	BLX-II-4	5"	BLX-II-4	5"/9"	BLX-II-4	5"	BLX-II-4	5"/8"
BLX-II-6	6"	BLX-II-6	5"	BLX-II-6	5"	BLX-II-6	5"/9"	BLX-II-6	5"	BLX-II-6	5"/8"
BLX-II-8	6"	BLX-II-8	5"	BLX-II-8	5"	BLX-II-8	5"/9"	BLX-II-8	5"	BLX-II-8	5"/8"

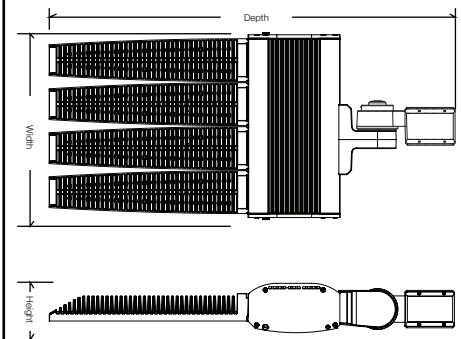
Post Top



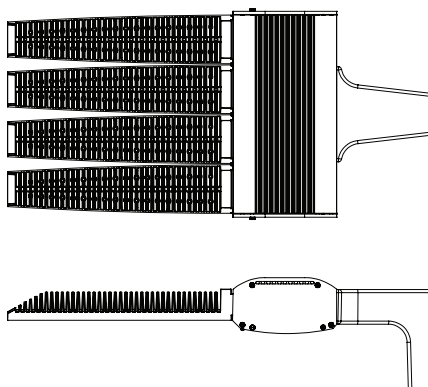
Mast Arm



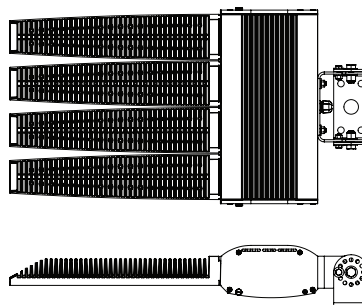
Knuckle Mount



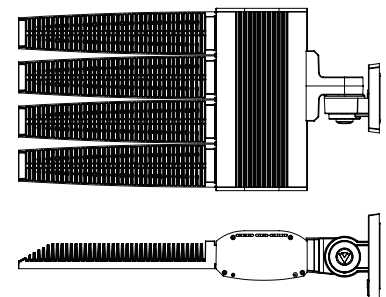
Bolt-On Arm



Trunnion Mount



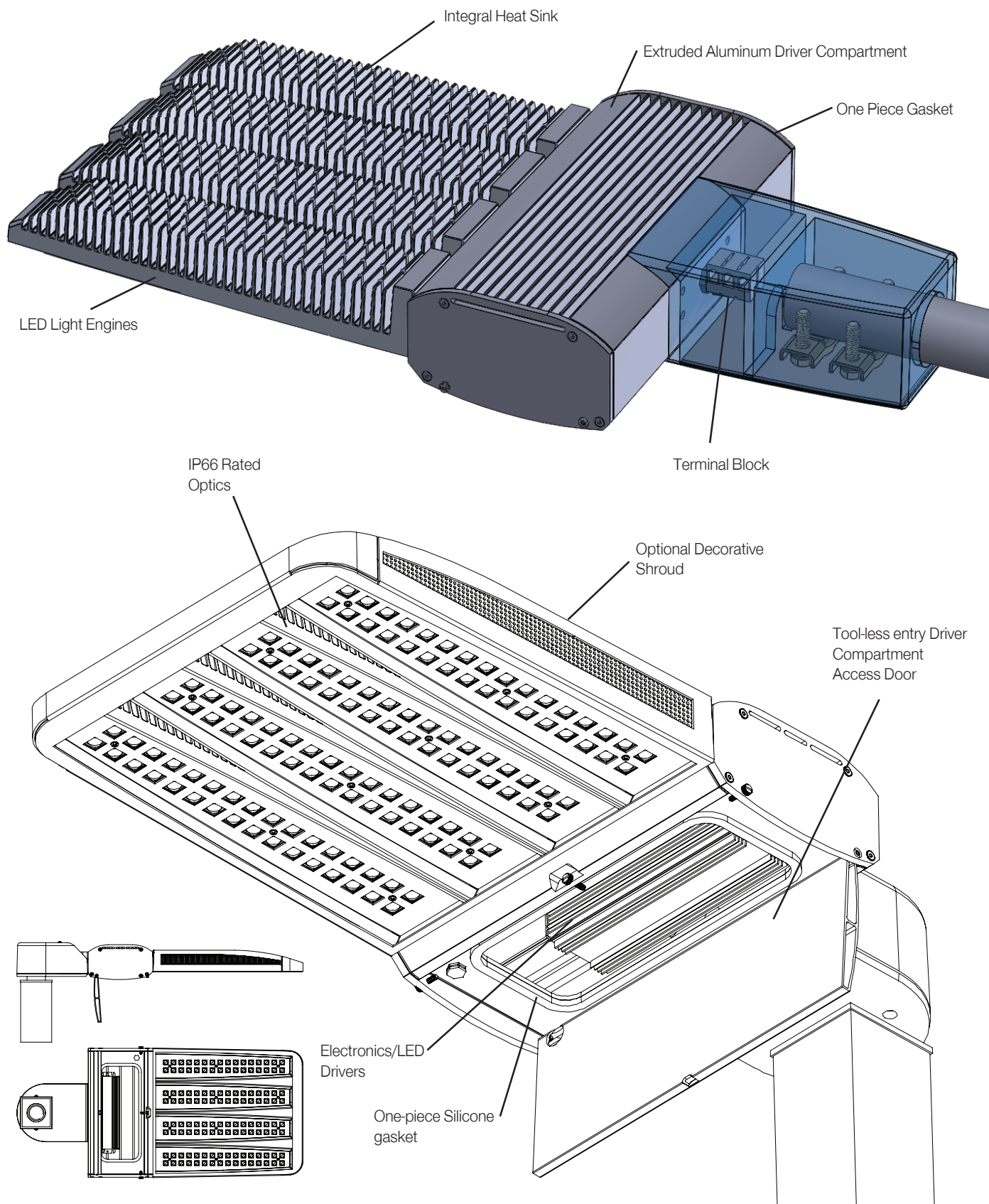
Adjustable Wall Mount



BLX-II - ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
BLX-II-3-96LD-3	98.6	0.82	0.47	0.41	0.36	0.28	0.21
BLX-II-3-96LD-5	152.1	1.27	0.73	0.63	0.55	0.44	0.32
BLX-II-4-128LD-3	131.5	1.10	0.63	0.55	0.47	0.38	0.27
BLX-II-4-128LD-5	202.8	1.69	0.97	0.84	0.73	0.58	0.42
BLX-II-6-192LD-3	197.2	1.64	0.95	0.82	0.71	0.57	0.41
BLX-II-6-192LD-5	304.1	2.53	1.46	1.27	1.10	0.88	0.63
BLX-II-8-256LD-3	262.9	2.19	1.26	1.10	0.95	0.76	0.55
BLX-II-8-256LD-5	405.5	3.38	1.95	1.69	1.46	1.17	0.84
ELECTRICAL LOAD DATA IS ESTIMATED							

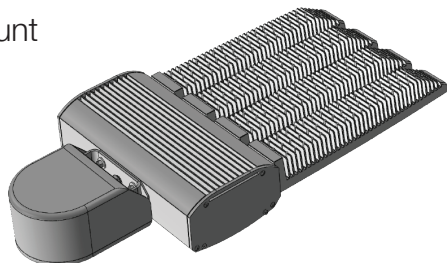
BLX-II EPA Data				
Tilt Deg.	BLX-II-3	BLX-II-4	BLX-II-6	BLX-II-8
0	.7	.7	.8	1.1
10	.71	.9	1.2	1.6
20	1.02	1.3	1.8	2
30	1.32	1.7	2.4	3.1
40	1.62	2.1	3	3.9
50	1.86	2.4	3.4	4.5
Weight				
BLX-II	45 LBS	54 LBS	68 LBS	96 LBS

BLX Features



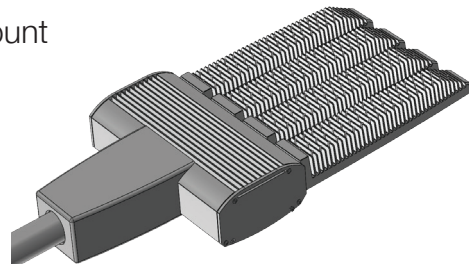
BLX-II Mounting Options

Post Top Mount



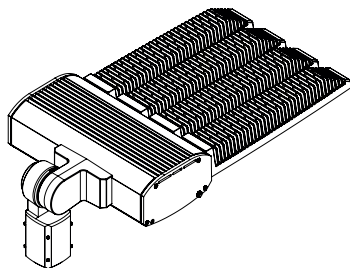
Post Top fits over a 2" - 2-3/8" tenon and is adjustable up to 45 degrees.

Mast Arm Mount



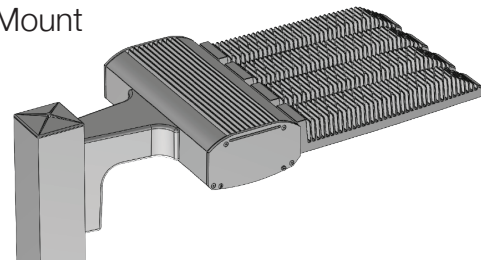
Mast Arm Fitter fits over a 2" - 2-3/8" tenon.

Knuckle Mount



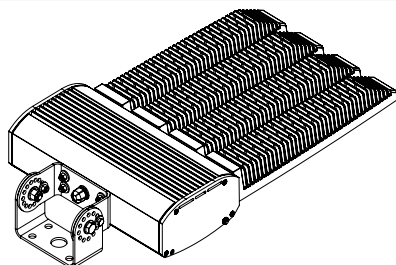
An adjustable knuckle slip fits over a 2-3/8" Tenon, and allows for up to 50 degrees of vertical adjustment in 10 degree increments from horizontal, as well as full side to side adjustment with the knuckle mount.

Bolt-On Arm Mount



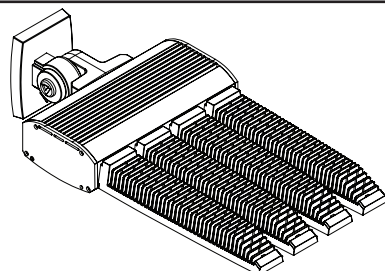
The Bolt -On Arm (BOA) utilizes a 2 piece cleat system for easy installation. A Round Pole Plate Adaptor (RPP) is required for mounting to round poles.

Trunnion Mount



Trunnion Mount is adjustable up to 50 degrees.

Adjustable Wall Mount



Adjustable Wall Mount allows for up to 50 degrees of vertical adjustment in 10-degree increments.

WATTSTOPPER PLUS

FSP-600 Series

The FSP-600 series by Wattstopper PLUS is an integrated luminaire level lighting controller and sensor for indoor/outdoor lighting applications that require networked wireless control. The FSP-600 is designed to integrate directly into exterior, high bay, parking garage, and general site lighting solutions. It is a passive infrared (PIR) sensor and closed loop photosensor.

The FSP-600 series design intends to reduce installer labor time and make on-site start up easy for technicians.

Once commissioned and paired to a Wattstopper PLUS network, the devices can measure both motion and daylight contribution in order to automatically switch or dim lighting. It also provides the ability to communicate to other fixtures in the space without any front-end devices.

The Wattstopper PLUS FSP-600 series is available in a few different options including: internal, external straight nipple, and external drop nipple. Sensor lens options sold separately and should be ordered based on designed mounting height and desired finish.

FSP-621



FSP-200 Series

The FSP-200 series sensors provide multi-level control based on motion and/or daylight contribution. They control 0-10 VDC LED drivers or dimming ballasts, as well as non-dimming ballasts and, with an FSP-Lx Lens, are rated for wet and cold locations. All control parameters are adjustable via a wireless configuration tool capable of storing and transmitting sensor profiles. The FSP-200 series is available in two different voltage configurations adding flexibility to your fixture design or project.

Typically, the sensor ramps lighting On to the selected High mode level when motion is detected and the ambient light level is below the hold off setpoint. After the sensor stops detecting movement and the time delay elapses, lights fade to the Low mode level. If there is no motion during the subsequent cut off time delay, the lights will turn Off. For dusk to dawn control, the integral photocell can switch the lights On and Off based on the ambient light level so that lighting remains on overnight even without motion detection.

Initial setup and subsequent sensor adjustments are made using a Wireless Handheld Configuration Tool (FSIR-100). This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cut off and more. The FSIR-100 is also used to initiate automatic calibration of the FSP-2x1B ambient light level setpoint. The setpoint is used to hold the controlled lighting off or at a low level when there is sufficient daylight. The wireless tool stores up to six sensor parameter profiles to speed configuration of multiple sensors.

FSP-211



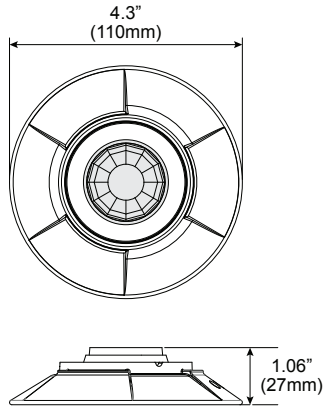
FSP-221



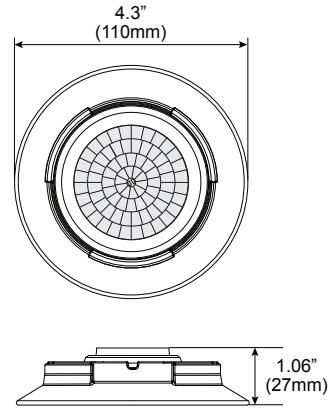
Lens with Shroud Dimensions

The FSP-Lx-S models include a shroud, which blocks high-angle light coming from the fixture, to improve photocell performance. With the shroud attached, the dimensions for all three lenses are identical

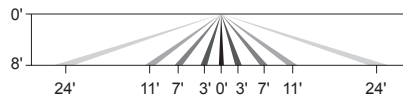
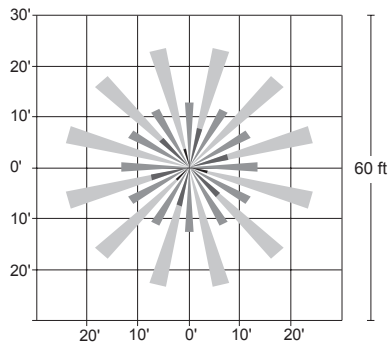
FSP-L2-S and FSP-L3-S



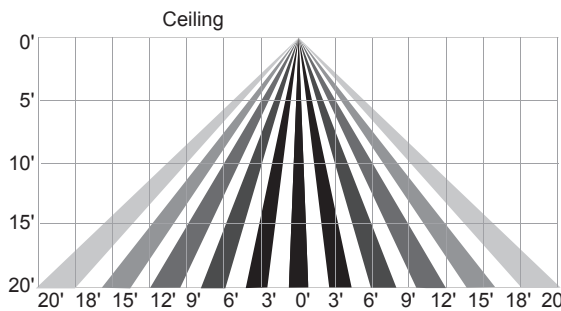
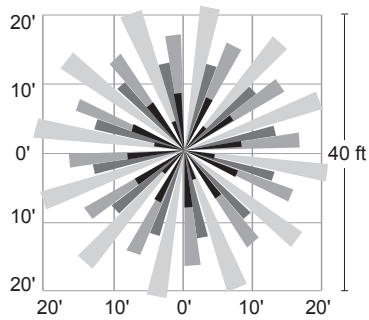
FSP-L7-S



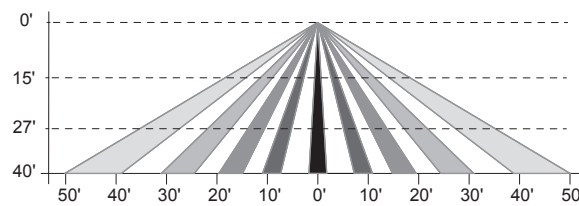
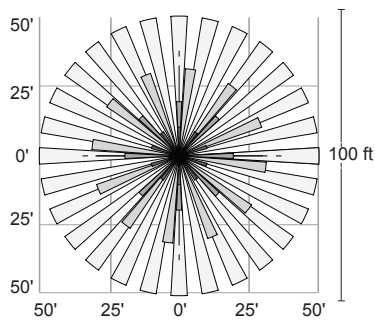
COVERAGE



FSP-L2 top and side coverage patterns



FSP-L3 top and side coverage patterns



FSP-L7 top and side coverage patterns

TS AMBER LUMENS																			
MODEL	# LEDs	Current (mA)	T1	T2	T3R	T3	T3W	T3LG	T4	T4A	T4LG	T5	T5LG	T5W	T5WW	FN	FM	FW	WATTS
BLX-II-3	96LD	350	8182	7846	7647	7551	7735	7817	7665	8165	7829	8064	7871	7418	7078	8046	8168	8388	98.6
		530	12386	11877	11577	11432	11710	11834	11604	12360	11852	12208	11916	11229	10715	12181	12365	12698	152.1
BLX-II-4	128LD	350	10801	10357	10096	9969	10211	10320	10119	10778	10335	10646	10391	9792	9344	10622	10783	11073	131.5
		530	16352	15680	15283	15091	15458	15623	15319	16317	15646	16116	15730	14824	14145	16080	16324	16762	202.8
BLX-II-6	192LD	350	15878	15225	14840	14654	15010	15170	14875	15844	15193	15650	15275	14395	13736	15614	15851	16277	197.2
		530	24037	23049	22466	22184	22723	22966	22518	23985	22999	23691	23124	21791	20794	23638	23996	24641	304.1
BLX-II-8	256LD	350	20739	19886	19383	19140	19605	19814	19428	20694	19844	20440	19951	18801	17940	20394	20704	21260	262.9
		530	31395	30105	29344	28975	29680	29996	29412	31328	30040	30943	30202	28462	27159	30874	31342	32184	405.5

EFFICACY (LM/W) TS																			
MODEL	# LEDs	Current (mA)	T1	T2	T3R	T3	T3W	T3LG	T4	T4A	T4LG	T5	T5LG	T5W	T5WW	FN	FM	FW	WATTS
BLX-II-3	96LD	350	83	80	78	77	78	79	78	83	79	82	80	75	72	82	83	85	98.6
		530	81	78	76	75	77	78	76	81	78	80	78	74	70	80	81	83	152.1
BLX-II-4	128LD	350	82	79	77	76	78	78	77	82	79	81	79	74	71	81	82	84	131.5
		530	81	77	75	74	76	77	76	80	77	79	78	73	70	79	81	83	202.8
BLX-II-6	192LD	350	81	77	75	74	76	77	75	80	77	79	77	73	70	79	80	83	197.2
		530	79	76	74	73	75	76	74	79	76	78	76	72	68	78	79	81	304.1
BLX-II-8	256LD	350	79	76	74	73	75	75	74	79	75	78	76	72	68	78	79	81	262.9
		530	77	74	72	71	73	74	73	77	74	76	74	70	67	76	77	79	405.5

BUG TS																																														
MODEL	# LEDs	Current (mA)	T1		T2		T3R		T3		T3W		T3LG		T4		T4A		T4LG		T5		T5LG		T5W		T5WW		FN		FM		FW													
			B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G	B	U	G											
BLX-II-3	96LD	350	3	0	3	2	0	2	2	0	2	1	0	2	1	0	2	2	0	2	2	0	2	0	1	2	0	1	2	0	1	2	0	1	2	0	1	2								
		530	4	0	4	3	0	3	3	0	3	2	0	2	2	0	2	3	0	3	3	0	3	2	0	2	2	0	2	3	0	3	3	0	3	4	0	4	0	1	3	0	1			
BLX-II-4	128LD	350	4	0	4	3	0	3	2	0	2	2	0	2	2	0	2	2	0	2	2	0	2	1	0	1	2	0	2	3	0	3	2	0	2	3	0	3	0	1	4	0	1	3	0	1
		530	4	0	4	3	0	3	3	0	3	2	0	2	3	0	3	3	0	3	3	0	3	2	0	2	3	0	3	2	0	2	4	0	4	0	1	4	0	1	4	0	1			
BLX-II-6	192LD	350	4	0	4	3	0	3	3	0	3	2	0	2	3	0	3	3	0	3	3	0	3	2	0	2	3	0	3	2	0	2	4	0	4	0	1	4	0	1	4	0	1			
		530	5	0	5	3	0	3	4	0	4	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	4	0	4	0	1	4	0	1	4	0	1	4	0	1			
BLX-II-8	256LD	350	4	0	4	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	2	0	2	3	0	3	2	0	2	4	0	4	0	1	4	0	1	4	0	1			
		530	5	0	5	4	0	4	4	0	4	3	0	3	4	0	4	3	0	3	3	0	3	3	0	3	3	0	3	4	0	4	0	1	4	0	1	4	0	1	4	0	1			

