

BSX-II LED Specifications

Area - Site - Commercial - Outdoor



BSX-II-4 Bolt On Arm Mount Shown

The new BSX-II 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.

Each of the individual LED light engines come with 16 LEDs; for a max total of 64 LEDs. Choose between 2700, 3000, 3500, 4000 or 5000 Kelvin temperature of the LEDs. Seventeen optical distribution patterns are available.

The BSX-II Series offers an impressive output of up to 32,000 lumens with a wattage package reaching up to 242 watts, delivering an average efficiency of 139 lumens per watt. With integrated controls, the BSX-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 BSX-II series is an exceptional choice for shopping centers, schools, office buildings, and general area lighting.

Project Name:

Catalog Number:

Type:

Date:

Location:

MODEL	OPTICS		LEDs	CURRENT	CCT
BSX-II-2	T1 Type 1	T5 Type 5	32LD	3 350mA	27K7 27K8 27K9 2700K 70, 80, & 90 CRI
BSX-II-3	T2 Type 2	T5W Type 5 Wide	48LD	5 530mA	30K7 30K8 30K9 3000K 70, 80, & 90 CRI
BSX-II-4	T3 Type 3	T5WW Type 5	64LD	7 700mA	35K7 35K8 35K9 3500K 70, 80, & 90 CRI
	T3R Type 3 Round	Extra Wide		10 1050mA	40K7 40K8 40K9 4000K 70, 80, & 90 CRI
	T3W Type 3 Wide	T5LG Type 5 Low Glare		12 1200mA	50K7 50K8 50K9 5000K 70, 80, & 90 CRI
	T3LG Type 3 Low Glare	FN Flood Narrow			
	T4 Type 4	FM Flood Medium			
	T4A Type 4	FW Flood Wide			
	Automotive				
	T4FT Type 4 Forward Throw				
	T4LG Type 4 Low Glare				

VOLTAGE	MOUNTING	FINISH	CONTROL OPTIONS	SHIELD OPTIONS	OPTIONS
UNV 120-277V	PT Post Top	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	BK Black	PC-120 PC-208 PC-240 PC-277 Button Type Photocell	RCLS Rightside cutoff shield	DS Decorative Shroud
5 480V	KM Knuckle Mount	GY Grey	7PINPER 7 Pin Photo Receptacle w/shorting cap Requires Dimming Driver	LCLS Leftside cutoff shield	UPMA-S Universal Square Pole Mount Adaptor
	BOA Bolt-On Arm	SBK Smooth Black	DIM 0-10v Dimming Driver No Controls	BHS House shield	UPMA-R Universal Round Pole Mount Adaptor
	TM Trunnion Mount	WH White	DTO Dim to Off Driver		ROT-R Rotated Optics Right Side
	WM Wall Mount	SWH Smooth White	WSP6-L2 WSP6-L3 WSP6-L7 8' Mounting Height 9-20' Mounting Height 21-40' Mounting Height		ROT-L Rotated Optics Left Side
	AWM Adjustable Wall Mount	GP Graphite	WSC-8 WSC-20 WSC-40 8' Mounting Height 9-20' Mounting Height 21-40' Mounting Height		BBG Bird Spikes
		GY Grey	*The WSC option will require (1) FSIR 100 remote for programming		BAA Buy America(n) Act Compliant
		SL Silver Metallic	TL7 7-PIN		BABA Build America Buy American
		ZFP Zinc-Free Primer Coat	Twist -lock Wireless Control		
		CC Custom Color	Z10 or Z18 Zhaga 4 Pin Receptacle		
			VWC Visionaire Wireless Control		

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 gasketing is utilized throughout the fixture for weather tight operation.

Thermal Management

- The BSX-II Series provides excellent overall thermal management by maximizing the fixture's heat sink capabilities. This enables the BOW SX 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 BSX-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 17 IES distribution patterns. LED light engines come in multiples of 1 LEDs.
- CRI values are 70, 80 or 90.
- CCT values are 2700K, 3000K, 3500K, 4000K, 5000K

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.
- A round extruded 6" aluminum, Bolt -On Arm (BOA) with an in-pole nut plate. A Round Pole Plate Adapter (RPP) is required for mounting to round poles.
- A cast wall mount plate is available for wall mount applications.

Electrical Assembly

- The BSX-II Series is supplied with a choice of 350, 530, 700, 1050, or 1200 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 kV 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

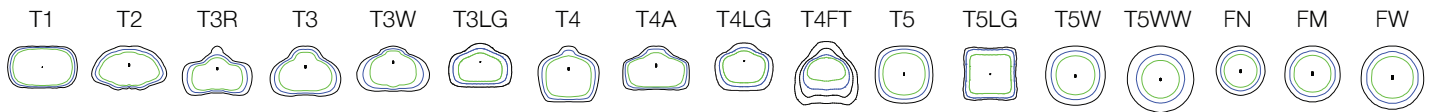
- Wattstopper Plus
- Wattstopper FSP-211 Motion Sensor/Control
- Photocell & Receptacle
- Button Type Photocell
- 7 Pin Photo Receptacle
- Dimming Driver
- Dim To Off Driver
- Wireless Controls
- Zhaga 4 Pin Receptacle
- Round Pole Plate Adapter
- Universal Pole Mount Adapter
- Decorative Shroud
- Rotated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

Listings

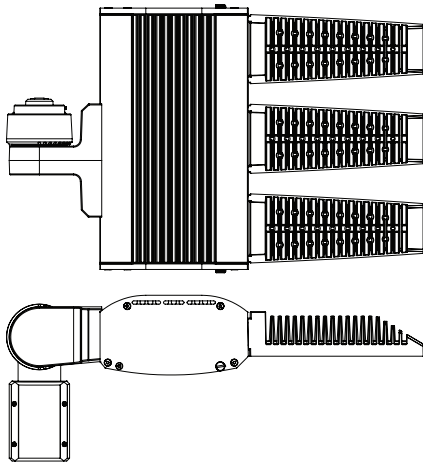
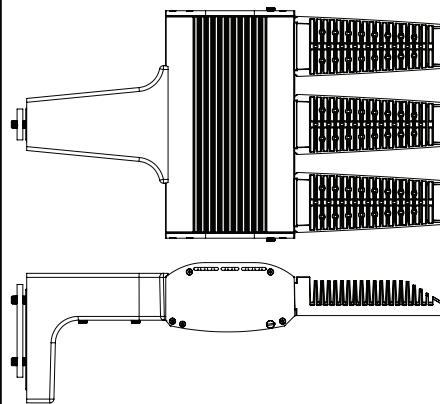
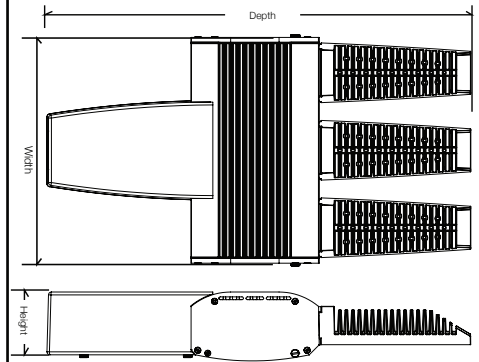
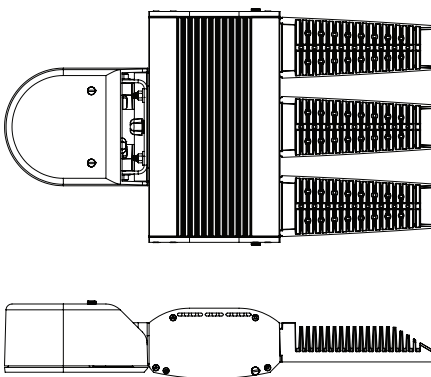
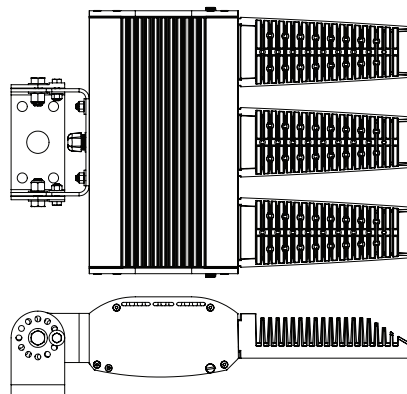
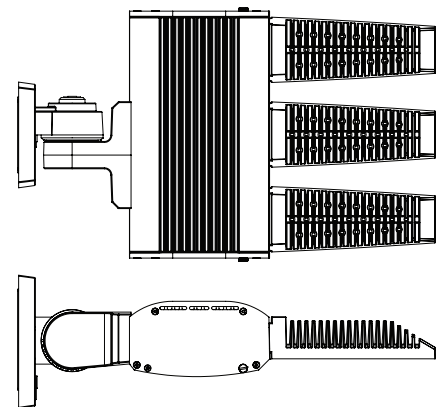
- BSX-II Series is UL listed, suitable for wet locations
- Meets ANSI C136.31-2010 3G Vibration Standards
- Powder Coated Tough™
- IP-66 Rated
- IDA Certification
- Pangealink



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

Photometric Optical Summary**Dimensions**

Knuckle Mount		Bolt-On Arm		Mast Arm		Post Top		Trunnion Mount		Adjustable Wall Mount	
Width:	BSX-II-2 15"	Width:	BSX-II-2 15"	Width:	BSX-II-2 15"	Width:	BSX-II-2 15"	Width:	BSX-II-2 15"	Width:	BSX-II-2 14"
	BSX-II-3 15"		BSX-II-3 15"		BSX-II-3 15"		BSX-II-3 15"		BSX-II-3 15"		BSX-II-3 15"
	BSX-II-4 17"		BSX-II-4 17"		BSX-II-4 17"		BSX-II-4 17"		BSX-II-4 17"		BSX-II-4 17"
Depth:	BSX-II-2 29"	Depth:	BSX-II-2 27"	Depth:	BSX-II-2 28"	Depth:	BSX-II-2 27"	Depth:	BSX-II-2 25"	Depth:	BSX-II-2 25"
	BSX-II-3 29"		BSX-II-3 27"		BSX-II-3 28"		BSX-II-3 27"		BSX-II-3 25"		BSX-II-3 25"
	BSX-II-4 29"		BSX-II-4 27"		BSX-II-4 28"		BSX-II-4 27"		BSX-II-4 25"		BSX-II-4 25"
Height:	BSX-II-2 5"	Height:	BSX-II-2 9"	Height:	BSX-II-2 5"	Height:	BSX-II-2 5"	Height:	BSX-II-2 5"	Height:	BSX-II-2 8"
	BSX-II-3 5"		BSX-II-3 9"		BSX-II-3 5"		BSX-II-3 5"		BSX-II-3 5"		BSX-II-3 8"
	BSX-II-4 5"		BSX-II-4 9"		BSX-II-4 5"		BSX-II-4 5"		BSX-II-4 5"		BSX-II-4 8"

Knuckle Mount**Bolt-On Arm****Mast Arm****Post Top Mount****Trunnion Mount****Adjustable Wall Mount**

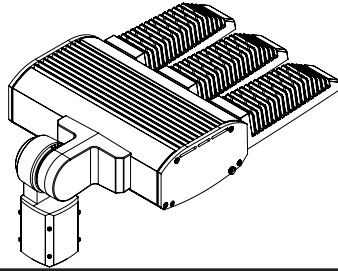
BSX-II EPA Data			
Tilt Deg.	BSX-2	BSX-3	BSX-4
0	.58	.58	.58
10	.58	.62	.77
20	.62	.82	1.02
30	.76	1.02	1.28
40	.9	1.2	1.53
50	1.01	1.36	1.75

BSX-II Weight		
BSX-2	BSX-3	BSX-4
16 LBS	21 LBS	26 LBS

BSX-II - ELECTRICAL LOAD (A)							
Ordering Nomenclature	System Watts	120	208	240	277	347	480
BSX-II-T5-32LD-3	33	0.27	0.16	0.14	0.12	0.09	0.07
BSX-II-T5-32LD-5	51	0.42	0.24	0.21	0.18	0.15	0.11
BSX-II-T5-32LD-7	70	0.58	0.34	0.29	0.25	0.20	0.15
BSX-II-T5-32LD-10	105	0.87	0.50	0.44	0.38	0.30	0.22
BSX-II-T5-32LD-12	121	1.01	0.58	0.50	0.44	0.35	0.25
BSX-II-T5-48LD-3	49	0.41	0.24	0.21	0.18	0.14	0.10
BSX-II-T5-48LD-5	76	0.63	0.37	0.32	0.27	0.22	0.16
BSX-II-T5-48LD-7	102	0.85	0.49	0.42	0.37	0.29	0.21
BSX-II-T5-48LD-10	157	1.31	0.76	0.66	0.57	0.45	0.33
BSX-II-T5-48LD-12	181	1.51	0.87	0.75	0.65	0.52	0.38
BSX-II-T5-64LD-3	66	0.55	0.32	0.27	0.24	0.19	0.14
BSX-II-T5-64LD-5	101	0.85	0.49	0.42	0.37	0.29	0.21
BSX-II-T5-64LD-7	136	1.13	0.65	0.57	0.49	0.39	0.28
BSX-II-T5-64LD-10	210	1.75	1.01	0.87	0.76	0.60	0.44
BSX-II-T5-64LD-12	242	2.01	1.16	1.01	0.87	0.70	0.50

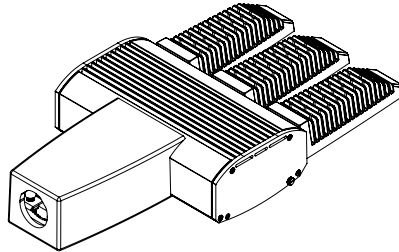
BSX-II Mounting Options

Knuckle Mount



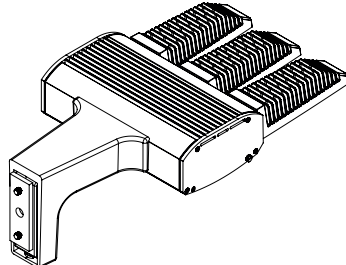
An adjustable knuckle slip fits over a 2 3/8" Tenon, and allows for up to 50° degrees of vertical adjustment in 10° degree increments from horizontal, as well as full side to side adjustment with the knuckle mount.

Mast Arm Mount



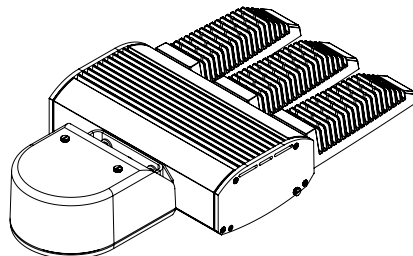
Mast Arm (MA) Fitter fits over a 2" - 2-3/8" tenon and supplied with terminal block as standard.

Arm Mount



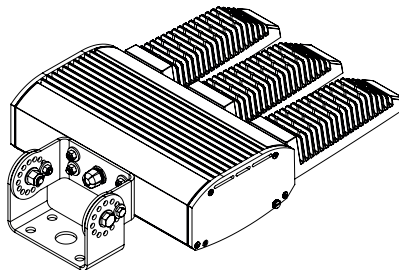
The Bolt -On Arm (BOA) utilizes a 2 piece cleat system for easy installation. A Round Pole Plate Adaptor (RPP) is required for mounting to round poles.

Post Top Mount



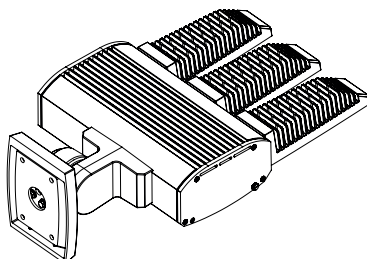
Post Top fits over a 2 3/8" tenon and is adjustable up to 45°.

Trunnion Mount



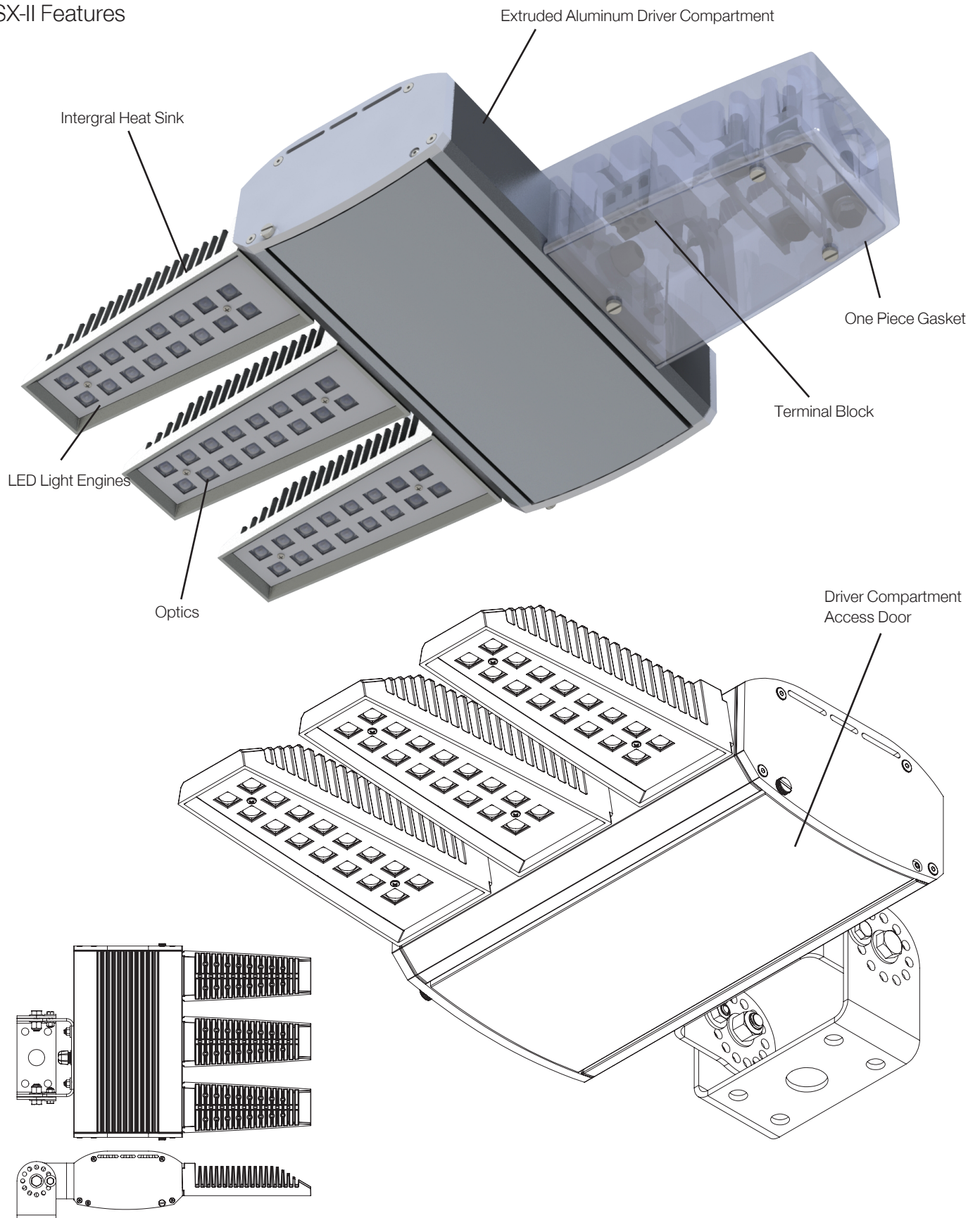
Trunnion Mount is adjustable up to 50°.

Wall Mount



Wall Mount (WM). Not supplied with terminal block.

BSX-II Features



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



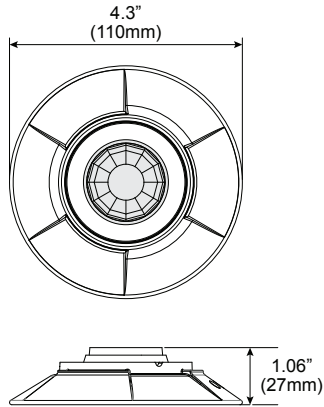
FSP-221



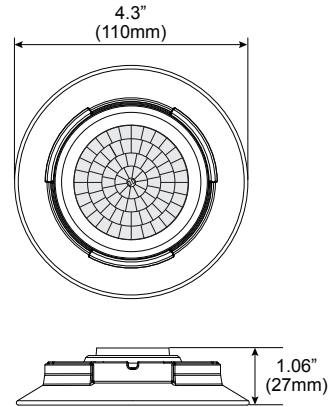
Lens with Shroud Dimensions

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

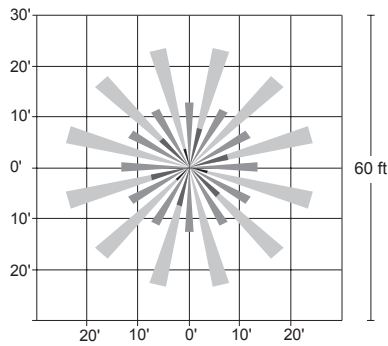
FSP-L2-S and FSP-L3-S



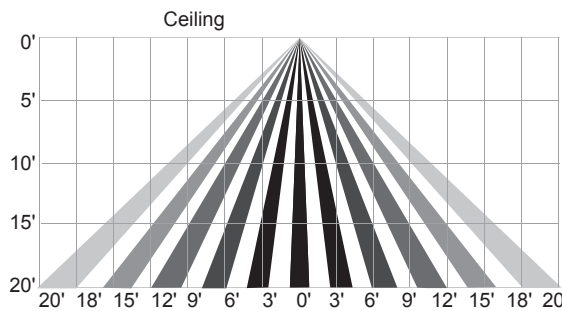
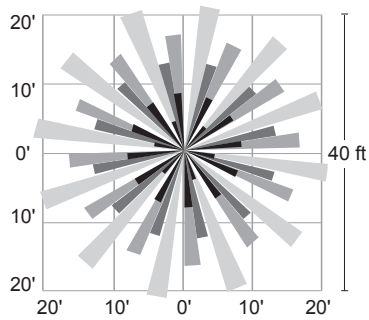
FSP-L7-S



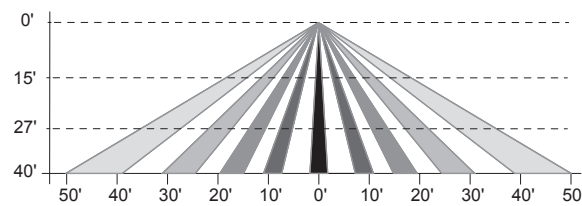
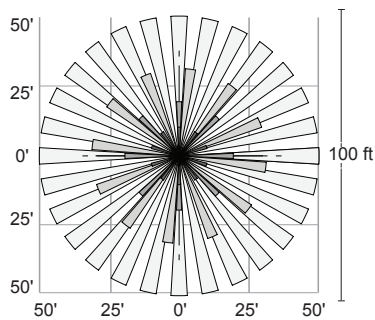
COVERAGE



FSP-L2 top and side coverage patterns



FSP-L3 top and side coverage patterns



FSP-L7 top and side coverage patterns

BSX-II LED SPECIFICATIONS / Forward Optics																											
Led Count	Current & Watts	Distribution Type	70CRI																								
			27K					30K					35K					40K					50K				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
32LD	350 mA (32.9W)	T1	4894	3	0	3	149	5098	3	0	3	155	5098	3	0	3	155	5054	3	0	3	154	5320	3	0	3	162
		T2	4693	1	0	2	143	5101	2	0	2	155	5101	2	0	2	155	5074	2	0	2	154	5323	2	0	2	162
		T3R	4574	1	0	2	139	4972	1	0	2	151	4972	1	0	2	151	4946	1	0	2	150	5189	2	0	2	158
		T3	4517	1	0	1	137	4910	1	0	1	149	4910	1	0	1	149	4884	1	0	1	149	5124	1	0	1	156
		T3W	4627	1	0	1	141	5029	1	0	1	153	5029	1	0	1	153	5002	1	0	1	152	5248	1	0	1	160
		T3LG	4676	1	0	1	142	5083	1	0	1	155	5083	1	0	1	155	5039	1	0	1	153	5304	1	0	1	161
		T4	4585	1	0	1	140	4984	1	0	1	152	4984	1	0	1	152	4957	1	0	1	151	5201	1	0	1	158
		T4A	4884	1	0	1	149	5308	1	0	1	162	5308	1	0	1	162	5280	1	0	1	161	5540	1	0	1	169
		T4LG	4683	1	0	1	142	5090	1	0	1	155	5090	1	0	1	155	5046	1	0	1	154	5312	1	0	1	162
		T4FT	4942	1	0	2	150	5157	1	0	2	157	5157	1	0	2	157	5103	1	0	2	155	5372	1	0	2	163
		T5	4824	2	0	1	147	5243	3	0	1	160	5243	3	0	1	160	5215	3	0	1	159	5472	3	0	1	166
		T5LG	4708	2	0	1	143	5118	2	0	1	156	5118	2	0	1	156	5074	2	0	1	154	5341	3	0	1	163
		T5W	4437	2	0	2	135	4823	3	0	2	147	4823	3	0	2	147	4797	3	0	2	146	5033	3	0	2	153
		T5WW	4234	2	0	1	129	4602	3	0	2	140	4602	3	0	2	140	4577	3	0	2	139	4802	3	0	2	146
		FN	4813	3	0	1	146	5231	3	0	1	159	5231	3	0	1	159	5204	3	0	1	158	5459	3	0	1	166
		FM	4886	3	0	1	149	5311	3	0	1	162	5311	3	0	1	162	5282	3	0	1	161	5542	3	0	1	169
		FW	5017	2	0	1	153	5226	2	0	1	159	5226	2	0	1	159	5181	2	0	1	158	5453	2	0	1	166
32LD	530 mA (50.7W)	T1	7409	3	0	3	146	7717	3	0	3	152	7717	3	0	3	152	7651	3	0	3	151	8053	3	0	3	159
		T2	7104	2	0	2	140	7722	2	0	2	152	7722	2	0	2	152	7681	2	0	2	152	8059	2	0	2	159
		T3R	6925	2	0	2	137	7527	2	0	2	148	7527	2	0	2	148	7487	2	0	2	148	7855	2	0	2	155
		T3	6836	1	0	2	135	7432	1	0	2	147	7432	1	0	2	147	7393	1	0	2	146	7756	1	0	2	153
		T3W	7004	1	0	2	138	7613	1	0	2	150	7613	1	0	2	150	7573	1	0	2	149	7945	1	0	2	157
		T3LG	7079	2	0	1	140	7694	2	0	2	152	7694	2	0	2	152	7628	2	0	2	150	8029	2	0	2	158
		T4	6941	2	0	2	137	7544	2	0	2	149	7544	2	0	2	149	7504	2	0	2	148	7873	2	0	2	155
		T4A	7393	1	0	1	146	8036	2	0	1	159	8036	2	0	1	159	7993	2	0	1	158	8386	2	0	1	165
		T4LG	7089	2	0	1	140	7706	2	0	1	152	7706	2	0	1	152	7639	2	0	1	151	8041	2	0	1	159
		T4FT	7482	1	0	2	148	7807	1	0	2	154	7807	1	0	2	154	7726	1	0	2	152	8132	2	0	2	160
		T5	7302	3	0	1	144	7937	3	0	1	157	7937	3	0	1	157	7895	3	0	1	156	8283	3	0	1	163
		T5LG	7127	3	0	1	141	7747	3	0	1	153	7747	3	0	1	153	7681	3	0	1	152	8085	3	0	1	159
		T5W	6717	3	0	2	133	7301	3	0	2	144	7301	3	0	2	144	7262	3	0	2	143	7619	3	0	2	150
		T5WW	6409	3	0	2	126	6967	3	0	2	137	6967	3	0	2	137	6929	3	0	2	137	7270	3	0	2	143
		FN	7286	3	0	1	144	7919	4	0	1	156	7919	4	0	1	156	7877	4	0	1	155	8265	4	0	1	163
		FM	7396	3	0	1	146	8040	4	0	1	159	8040	4	0	1	159	7997	4	0	1	158	8390	4	0	1	166
		FW	7595	3	0	1	150	7911	3	0	1	156	7911	3	0	1	156	7843	3	0	1	155	8255	3	0	1	163
32LD	700 mA (67.9W)	T1	9600	3	0	3	141	9999	3	0	3	147	9999	3	0	3	147	9913	3	0	3	146	10434	4	0	4	154
		T2	9205	2	0	2	135	10005	3	0	3	147	10005	3	0	3	147	9952	3	0	3	146	10442	3	0	3	154
		T3R	8972	2	0	2	132	9752	2	0	3	144	9752	2	0	3	144	9701	2	0	3	143	10177	2	0	3	150
		T3	8860	2	0	2	130	9630	2	0	2	142	9630	2	0	2	142	9579	2	0	2	141	10050	2	0	2	148
		T3W	9075	2	0	2	134	9864	2	0	2	145	9864	2	0	2	145	9812	2	0	2	144	10294	2	0	2	152
		T3LG	9172	2	0	2	135	9969	2	0	2	147	9969	2	0	2	147	9884	2	0	2	145	10404	2	0	2	153
		T4	8993	2	0	2	132	9775	2	0	2	144	9775	2	0	2	144	9723	2	0	2	143	10201	2	0	2	150
		T4A	9579	2	0	1	141	10412	2	0	1	153	10412	2	0	1	153	10357	2	0	1	152	10866	2	0	1	160
		T4LG	9185	2	0	2	135	9984	2	0	2	147	9984	2	0	2	147	9898	2	0	2	146	10419	2	0	2	153
		T4FT	9694	2	0	3	143	10115	2	0	3	149	10115	2	0	3	149	10010	2	0	3	147	10537	2	0	3	155
		T5	9461	3	0	2	139	10284	3	0	2	151	10284	3	0	2	151	10229	3	0	2	151	10732	3	0	2	158
		T5LG	9235	3	0	1	136	10038	3	0	2	148	10038	3	0	2	148	9952	3	0	2	146	10475	3	0	2	154
		T5W	8703	3	0	2	128	9459	3	0	3	139	9459	3	0	3	139	9409	3	0	3	138	9872	3	0	3	145
		T5WW	8304	3	0	2	122	9026	3	0	2	133	9026	3	0	2	133	8978	3	0	2	132	9420	3	0	2	139
		FN	9440	4	0	1	139	10261	4	0	1	151	10261	4	0	1	151	10207	4	0	1	150	10708	4	0	1	158
		FM	9583	4	0	1	141	10417	4	0	1	153	10417	4	0	1	153	10361	4	0	1	153	10871	4	0	1	160
		FW	9841	3	0	1	145	10250	3	0	1	151	10250	3	0	1	151	10162	3	0	1	150	10696	3	0	1	157
32LD	1050 mA (104.8W)	T1	13586	4	0	4	130	14151	4	0	4	135	14151	4	0	4	135	14029	4	0	4	134	14768	4	0	4	141
		T2	13028	3	0	3	124	14161	3	0	3	135	14161	3	0	3	135	14085	3	0	3	134	14778	3	0	3	141
		T3R	12698	3	0	3	121	13803	3	0	3	132	13803	3	0	3	132	13729	3	0	3	131	14404	3	0	3	137
		T3	12539	2	0	2	120	13629	2	0	2	130	13629	2	0	2	130	13557	2	0	2	129	14223	2	0	2	136
		T3W	12844	2	0	3	123	13961	2	0	3	133	13961	2	0	3	133	13886	2	0	3	133	14569	2	0	3	139
		T3LG	12981	3	0	2	124	14109	3	0	2	135	14109	3	0	2	135	13988	3	0	2	133	14724	3	0	3	141
		T4	12728	3	0	3	121	13835	3	0	3	132	13835	3	0	3	132	13761	3	0	3	131	14438	3	0	3	138
		T4A	13557																								

BSX-II LED SPECIFICATIONS / Forward Optics																											
Led Count	Current & Watts	Distribution Type	27K												30K												
			70CRI												35K												
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
48LD	350 mA (49.3W)	T1	7233	3	0	3	147	7533	3	0	3	153	7533	3	0	3	153	7469	3	0	3	152	7862	3	0	3	159
		T2	6935	2	0	2	141	7539	2	0	2	153	7539	2	0	2	153	7498	2	0	2	152	7867	2	0	2	160
		T3R	6760	2	0	2	137	7348	2	0	2	149	7348	2	0	2	149	7309	2	0	2	148	7668	2	0	2	156
		T3	6675	1	0	2	135	7256	1	0	2	147	7256	1	0	2	147	7217	1	0	2	146	7572	1	0	2	154
		T3W	6837	1	0	2	139	7432	1	0	2	151	7432	1	0	2	151	7393	1	0	2	150	7756	1	0	2	157
		T3LG	6910	2	0	1	140	7511	2	0	2	152	7511	2	0	2	152	7447	2	0	2	151	7839	2	0	2	159
		T4	6776	2	0	2	137	7365	2	0	2	149	7365	2	0	2	149	7326	2	0	2	149	7686	2	0	2	156
		T4A	7217	1	0	1	146	7845	2	0	1	159	7845	2	0	1	159	7803	2	0	1	158	8187	2	0	1	166
		T4LG	6921	2	0	1	140	7522	2	0	1	153	7522	2	0	1	153	7458	2	0	1	151	7850	2	0	1	159
		T4FT	7304	1	0	2	148	7621	1	0	2	155	7621	1	0	2	155	7542	1	0	2	153	7939	2	0	2	161
		T5	7129	3	0	1	145	7749	3	0	1	157	7749	3	0	1	157	7707	3	0	1	156	8086	3	0	1	164
		T5LG	6958	3	0	1	141	7563	3	0	1	153	7563	3	0	1	153	7498	3	0	1	152	7893	3	0	1	160
		T5W	6557	3	0	2	133	7127	3	0	2	145	7127	3	0	2	145	7089	3	0	2	144	7438	3	0	2	151
		T5WW	6257	3	0	2	127	6801	3	0	2	138	6801	3	0	2	138	6765	3	0	2	137	7097	3	0	2	144
		FN	7113	3	0	1	144	7731	4	0	1	157	7731	4	0	1	157	7690	4	0	1	156	8068	4	0	1	164
		FM	7220	3	0	1	146	7848	4	0	1	159	7848	4	0	1	159	7807	4	0	1	158	8190	4	0	1	166
		FW	7414	3	0	1	150	7723	4	0	1	157	7723	4	0	1	157	7656	3	0	1	155	8059	3	0	1	163
48LD	530 mA (76.0W)	T1	10949	4	0	4	144	11404	4	0	4	150	11404	4	0	4	150	11306	4	0	4	149	11901	4	0	4	157
		T2	10499	3	0	3	138	11412	3	0	3	150	11412	3	0	3	150	11351	3	0	3	149	11909	3	0	3	157
		T3R	10234	3	0	3	135	11123	3	0	3	146	11123	3	0	3	146	11064	3	0	3	146	11608	3	0	3	153
		T3	10105	2	0	2	133	10984	2	0	2	144	10984	2	0	2	144	10925	2	0	2	144	11462	2	0	2	151
		T3W	10351	2	0	2	136	11251	2	0	2	148	11251	2	0	2	148	11191	2	0	2	147	11741	2	0	2	154
		T3LG	10461	2	0	2	138	11371	3	0	2	150	11371	3	0	2	150	11273	3	0	2	148	11866	3	0	2	156
		T4	10257	2	0	2	135	11149	3	0	3	147	11149	3	0	3	147	11090	3	0	3	146	11635	3	0	3	153
		T4A	10926	2	0	1	144	11876	2	0	2	156	11876	2	0	2	156	11813	2	0	2	155	12393	2	0	2	163
		T4LG	10476	2	0	2	138	11387	2	0	2	150	11387	2	0	2	150	11290	2	0	2	148	11884	2	0	2	156
		T4FT	11057	2	0	3	145	11537	2	0	3	152	11537	2	0	3	152	11417	2	0	3	150	12018	2	0	3	158
		T5	10792	3	0	2	142	11730	3	0	2	154	11730	3	0	2	154	11668	3	0	2	153	12241	3	0	2	161
		T5LG	10533	3	0	2	139	11449	3	0	2	151	11449	3	0	2	151	11351	3	0	2	149	11948	3	0	2	157
		T5W	9926	3	0	3	131	10789	3	0	3	142	10789	3	0	3	142	10732	3	0	3	141	11259	3	0	3	148
		T5WW	9472	3	0	2	125	10295	3	0	3	135	10295	3	0	3	135	10241	3	0	3	135	10744	3	0	3	141
		FN	10767	4	0	1	142	11704	4	0	1	154	11704	4	0	1	154	11641	4	0	1	153	12214	4	0	1	161
		FM	10931	4	0	1	144	11881	4	0	1	156	11881	4	0	1	156	11818	4	0	1	155	12399	4	0	1	163
		FW	11224	3	0	1	148	11691	3	0	1	154	11691	3	0	1	154	11590	3	0	1	152	12200	3	0	1	160
48LD	700 mA (101.9W)	T1	14187	4	0	4	139	14776	4	0	4	145	14776	4	0	4	145	14649	4	0	4	144	15420	4	0	4	151
		T2	13604	3	0	3	133	14786	3	0	3	145	14786	3	0	3	145	14708	3	0	3	144	15431	3	0	3	151
		T3R	13260	3	0	3	130	14413	3	0	3	141	14413	3	0	3	141	14336	3	0	3	141	15041	3	0	3	148
		T3	13093	2	0	2	128	14231	2	0	2	140	14231	2	0	2	140	14156	2	0	2	139	14852	2	0	2	146
		T3W	13411	2	0	3	132	14578	2	0	3	143	14578	2	0	3	143	14500	2	0	3	142	15213	2	0	3	149
		T3LG	13554	3	0	2	133	14733	3	0	3	145	14733	3	0	3	145	14606	3	0	2	143	15375	3	0	3	151
		T4	13290	3	0	3	130	14446	3	0	3	142	14446	3	0	3	142	14369	3	0	3	141	15075	3	0	3	148
		T4A	14156	2	0	2	139	15387	3	0	2	151	15387	3	0	2	151	15305	3	0	2	150	16058	3	0	2	158
		T4LG	13574	2	0	2	133	14755	3	0	2	145	14755	3	0	2	145	14628	3	0	2	144	15398	3	0	2	151
		T4FT	14326	2	0	3	141	14949	2	0	3	147	14949	2	0	3	147	14793	2	0	3	145	15572	2	0	3	153
		T5	13982	4	0	2	137	15198	4	0	2	149	15198	4	0	2	149	15117	4	0	2	148	15961	4	0	2	156
		T5LG	13648	4	0	2	134	14834	4	0	2	146	14834	4	0	2	146	14707	4	0	2	144	15481	4	0	2	152
		T5W	12861	4	0	3	126	13980	4	0	3	137	13980	4	0	3	137	13905	4	0	3	136	14589	4	0	3	143
		T5WW	12272	4	0	3	120	13340	4	0	3	131	13340	4	0	3	131	13269	4	0	3	130	13921	4	0	3	137
		FN	13951	4	0	1	137	15164	4	0	1	149	15164	4	0	1	149	15084	4	0	1	148	15825	5	0	1	155
		FM	14163	4	0	1	139	15394	5	0	1	151	15394	5	0	1	151	15312	5	0	1	150	16065	5	0	1	158
		FW	14543	3	0	1	143	15147	4	0	1	149	15147	4	0	1	149	15017	3	0	1	147	15808	4	0	1	155
48LD	1050 mA (157.2W)	T1	20078	4	0	4	128	20913	5	0	5	133	20913	5	0	5	133	20733	5	0	5	132	21824	5	0	5	139
		T2	19253	3	0	3	122	20927	3	0	4	133	20927	3	0	4	133	20816	3	0	4	132	21839	3	0	4	139
		T3R	18766	3	0	3	119	20398	3	0	3	130	20398	3	0	3	130	20290	3	0	3	129	21287	3	0	4	135
		T3	18530	3	0	3	118	20142	3	0	3	128	20142	3	0	3	128	20035	3	0	3	127	21020	3	0	3	134
		T3W	18981	3	0	3	121	20632	3	0	3	131	20632	3	0	3	131	20522	3	0	3	131	21531	3	0	3	137
		T3LG	19183	3	0	3	122	20851	3	0	3	133	20851	3	0	3	133	20672	3	0	3	132	21760	3	0	3	138
		T4	18810	3	0	3	120	20445	3	0	3	130	20445	3</													

BSXIII LED SPECIFICATIONS / Forward Optics																											
Led Count	Current & Watts	Distribution Type	70CRI																								
			27K					30K					35K					40K					50K				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
64LD	350 mA (65.7W)	T1	9354	3	0	3	142	9743	3	0	3	148	9743	3	0	3	148	9659	3	0	3	147	10168	4	0	4	155
		T2	8970	2	0	2	136	9750	3	0	3	148	9750	3	0	3	148	9698	3	0	3	148	10175	3	0	3	155
		T3R	8743	2	0	2	133	9503	2	0	3	145	9503	2	0	3	145	9453	2	0	3	144	9917	2	0	3	151
		T3	8633	2	0	2	131	9384	2	0	2	143	9384	2	0	2	143	9334	2	0	2	142	9793	2	0	2	149
		T3W	8843	2	0	2	135	9612	2	0	2	146	9612	2	0	2	146	9561	2	0	2	145	10031	2	0	2	153
		T3LG	8937	2	0	2	136	9715	2	0	2	148	9715	2	0	2	148	9631	2	0	2	147	10138	2	0	2	154
		T4	8763	2	0	2	133	9525	2	0	2	145	9525	2	0	2	145	9475	2	0	2	144	9940	2	0	2	151
		T4A	9334	2	0	1	142	10146	2	0	1	154	10146	2	0	1	154	10092	2	0	1	154	10588	2	0	1	161
		T4LG	8951	2	0	2	136	9729	2	0	2	148	9729	2	0	2	148	9645	2	0	2	147	10153	2	0	2	154
		T4FT	9446	2	0	3	144	9857	2	0	3	150	9857	2	0	3	150	9754	2	0	3	148	10268	2	0	3	156
		T5	9220	3	0	2	140	10021	3	0	2	152	10021	3	0	2	152	9968	3	0	2	152	10458	3	0	2	159
		T5LG	8999	3	0	1	137	9781	3	0	2	149	9781	3	0	2	149	9697	3	0	2	148	10208	3	0	2	155
		T5W	8480	3	0	2	129	9218	3	0	3	140	9218	3	0	3	140	9169	3	0	3	139	9620	3	0	3	146
		T5WW	8092	3	0	2	123	8796	3	0	2	134	8796	3	0	2	134	8749	3	0	2	133	9179	3	0	2	140
		FN	9199	4	0	1	140	9999	4	0	1	152	9999	4	0	1	152	9946	4	0	1	151	10435	4	0	1	159
		FM	9339	4	0	1	142	10151	4	0	1	154	10151	4	0	1	154	10097	4	0	1	154	10593	4	0	1	161
		FW	9589	3	0	1	146	9988	3	0	1	152	9988	3	0	1	152	9902	3	0	1	151	10423	3	0	1	159
64LD	530 mA (101.4W)	T1	14161	4	0	4	140	14750	4	0	4	145	14750	4	0	4	145	14623	4	0	4	144	15392	4	0	4	152
		T2	13579	3	0	3	134	14760	3	0	3	146	14760	3	0	3	146	14681	3	0	3	145	15403	3	0	3	152
		T3R	13235	3	0	3	131	14386	3	0	3	142	14386	3	0	3	142	14310	3	0	3	141	15013	3	0	3	148
		T3	13069	2	0	2	129	14206	2	0	2	140	14206	2	0	2	140	14130	2	0	2	139	14825	2	0	2	146
		T3W	13387	2	0	3	132	14551	2	0	3	144	14551	2	0	3	144	14474	2	0	3	143	15185	2	0	3	150
		T3LG	13530	3	0	2	133	14706	3	0	3	145	14706	3	0	3	145	14580	3	0	2	144	15347	3	0	3	151
		T4	13266	3	0	3	131	14420	3	0	3	142	14420	3	0	3	142	14343	3	0	3	141	15048	3	0	3	148
		T4A	14130	2	0	2	139	15359	3	0	2	152	15359	3	0	2	152	15278	3	0	2	151	16029	3	0	2	158
		T4LG	13550	2	0	2	134	14728	3	0	2	145	14728	3	0	2	145	14601	3	0	2	144	15370	3	0	2	152
		T4FT	14300	2	0	3	141	14922	2	0	3	147	14922	2	0	3	147	14766	2	0	3	146	15543	2	0	3	153
		T5	13957	4	0	2	138	15171	4	0	2	150	15171	4	0	2	150	15090	4	0	2	149	15832	4	0	2	156
		T5LG	13623	4	0	2	134	14807	4	0	2	146	14807	4	0	2	146	14680	4	0	2	145	15453	4	0	2	152
		T5W	12838	4	0	3	127	13954	4	0	3	138	13954	4	0	3	138	13860	4	0	3	137	14562	4	0	3	144
		T5WW	12250	4	0	3	121	13315	4	0	3	131	13315	4	0	3	131	13244	4	0	3	131	13896	4	0	3	137
		FN	13926	4	0	1	137	15137	4	0	1	149	15137	4	0	1	149	15056	4	0	1	149	15796	5	0	1	156
		FM	14137	4	0	1	139	15366	5	0	1	152	15366	5	0	1	152	15284	5	0	1	151	16036	5	0	1	158
		FW	14516	3	0	1	143	15120	3	0	1	149	15120	3	0	1	149	14990	3	0	1	148	15779	4	0	1	156
64LD	700 mA (135.9W)	T1	18348	4	0	4	135	19111	4	0	4	141	19111	4	0	4	141	18946	4	0	4	139	19944	4	0	4	147
		T2	17594	3	0	3	129	19124	3	0	3	141	19124	3	0	3	141	19022	3	0	3	140	19957	3	0	3	147
		T3R	17149	3	0	3	126	18640	3	0	3	137	18640	3	0	3	137	18541	3	0	3	136	19453	3	0	3	143
		T3	16934	3	0	3	125	18406	3	0	3	135	18406	3	0	3	135	18308	3	0	3	135	19208	3	0	3	141
		T3W	17345	3	0	3	128	18854	3	0	3	139	18854	3	0	3	139	18753	3	0	3	138	19675	3	0	3	145
		T3LG	17530	3	0	3	129	19055	3	0	3	140	19055	3	0	3	140	18891	3	0	3	139	19865	3	0	3	146
		T4	17189	3	0	3	126	18683	3	0	3	137	18683	3	0	3	137	18584	3	0	3	137	19498	3	0	3	143
		T4A	18309	3	0	2	135	19901	3	0	2	146	19901	3	0	2	146	19795	3	0	2	146	20768	3	0	2	153
		T4LG	17556	3	0	2	129	19083	3	0	2	140	19083	3	0	2	140	18919	3	0	2	139	19914	3	0	2	147
		T4FT	18528	3	0	3	136	19334	3	0	3	142	19334	3	0	3	142	19132	3	0	3	141	20139	3	0	4	148
		T5	18084	4	0	2	133	19656	4	0	2	145	19656	4	0	2	145	19552	4	0	2	144	20513	4	0	2	151
		T5LG	17651	4	0	2	130	19186	4	0	2	141	19186	4	0	2	141	19021	4	0	2	140	20022	4	0	2	147
		T5W	16634	4	0	3	122	18080	4	0	3	133	18080	4	0	3	133	17984	4	0	3	132	18868	4	0	3	139
		T5WW	15872	4	0	3	117	17252	4	0	3	127	17252	4	0	3	127	17161	4	0	3	126	18004	4	0	3	132
		FN	18043	5	0	1	133	19612	5	0	1	144	19612	5	0	1	144	19508	5	0	1	144	20467	5	0	1	151
		FM	18317	5	0	1	135	19910	5	0	1	147	19910	5	0	1	147	19804	5	0	1	146	20777	5	0	1	153
		FW	18809	4	0	1	138	19591	4	0	1	144	19591	4	0	1	144	19422	4	0	1	143	20444	4	0	1	150
64LD	1050 mA (209.6W)	T1	25968	5	0	5	124	27047	5	0	5	129	27047	5	0	5	129	26815	5	0	5	128	28226	5	0	5	135
		T2	24901	4	0	4	119	27066	4	0	4	129	27066	4	0	4	129	26922	4	0	4	128	28245	4	0	4	135
		T3R	24271	3	0	4	116	26381	4	0	4	126	26381	4	0	4	126	26241	4	0	4	125	27531	4	0	4	131
		T3	23966	3	0	3	114	26050	3	0	3	124	26050	3	0	3	124	25911	3	0	3	124	27185	3	0	3	130
		T3W	24549	3	0	3	117	26684	3	0	4	127	26684	3	0	4	127	26542	3	0	4	127	27846	3	0	4	133
		T3LG	24810	3	0	3	118	26968	3	0	3	129	26968	3	0	3	129	26736	3	0	3	128	28143	4	0	3	134
		T4	24327	3	0																						