

BSX-II ARRAY LED Specifications

Shown with optional Decorative Shroud



Project Name:

Catalog Number:

Type:

The **BSX-II Array** 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.

The BSX-II Array LED fixture is offered with lumen packages ranging from 5,000 - 35,000. Choose between 3000, 4000 or 5000 Kelvin temperature of the LEDs.

The **BSX-II Array** is an exceptional choice and the new standard for roadway lighting applications, bringing LED technology with long life and low maintenance.

Ordering Information

MODEL	OPTICS	LUMENS	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS	OPTIONS
BSX-II-2	T1 Type 1	5L 10L 15L	3K 3000K	UNV 120-277V	PT Post Top	GY Grey	PCR-120 PCR-208 PCR-240 PCR-277 PCR-347 PCR-480 Photocell & Receptacle	DIM 0-10v Dimming Driver No Controls
BSX-II-3	T2 Type 2	20L 25L	4K 4000K	8 347V	MA Mast Arm Fitter	SL Silver Metallic	WSC-8 Motion Sensor 8' Mounting Height	WSC-20 Motion Sensor 9-20' Mounting Height
BSX-II-4	T3 Type 3	30L 35L	5K 5000K	5 480V	KM Knuckle Mount	BK Black	PER 5PINPER 7PINPER 3, 5, or 7 Pin Photo Receptacle w/shorting cap Requires Dimming Driver	WSC-40 Motion Sensor 21-40' Mounting Height
	T3L Type 3 Long				BOA Bolt-On Arm	SBK Smooth Black		*The WSC option will require (1) FSIR 100 remote for programming
	T4 Type 4				TM Trunnion Mount	WH White		
	T4A Type 4 Automotive				WM Wall Mount	SWH Smooth White		
	T4L Type 4 Long				AWM Adjustable Wall Mount	BZ Bronze	DS Decorative Shroud	
	T5LR Type 5 Long Round					GP Graphite	UPMA-S Universal Square Pole Mount Adaptor	ROT-R Rotated Optics Right Side
	T5LS Type 5 Long Square					CC Custom Color	UPMA-R Universal Round Pole Mount Adaptor	ROT-L Rotated Optics Left Side
	T5SR Type 5 Short Round							VWC Visionaire Wireless Controls * Consult Factory

Features & Specifications

BSX-II ARRAY

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 BOW SX-II ARRAY Series provides excellent overall thermal management by maximizing the fixture's heat sink capabilities. This enables the BOW SX-II ARRAY 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 SX-II ARRAY 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 SX-II Series. IES distribution Types 1, 2, 3, 4, 4A, 4L, T5LR, T5LS, and T5SR are available. LED light engines come in multiples of 32 LED Arrays.
- CRI values are 70.

New LED Array Technology

- 4 Diodes now replace a single Led chip and operate at 25% of the drive current allowing for higher efficiency, less heat and longer life. (10 Year Warranty)
- More LEDs at a lower drive current provides a more comfortable visual effect.

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 millimeter thickness. Finish is oven-baked at 400 °F to promote maximum adherence and finish hardness.
- All finishes are available in standard and custom colors.
- 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

Electrical Assembly

- The BOW SX-II ARRAY Series is supplied with a choice of 350, 530, 700, or 1050 mA, 1200 mA and 1400 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

- Ten (10) year Limited Warranty on electrical components
- Five (5) year on finish. For full warranty information, please visit visionairelighting.com.

Options

- Photocell & Receptacle
- Photo Receptacle
- Round pole plate adaptor
- Motion Sensor
- Pole Mounted Motion Sensor
- Universal Pole Mount Adaptor
- Decorative Shroud
- Wireless Controls
- Rotated Optics

Listings

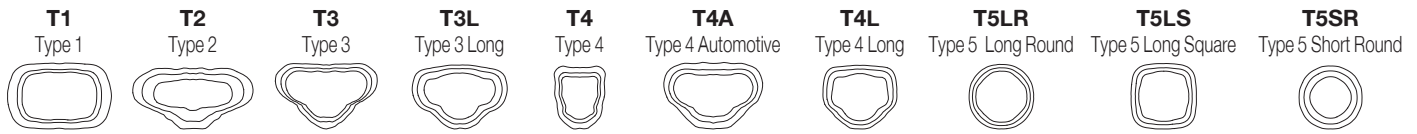
- BOW SX-II ARRAY Series is UL listed, suitable for wet locations
- Meets ANSI C136.31-2010 3G Vibration Standards
- Powder Coated Tough™
- IP-66 Rated for the Driver Compartment
- DLC Listed
- IDA Certification
- Pangealink



DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org/>
3000K must be selected with a fixed mount for IDA certification.
Fixed mount must be selected for IDA dark sky certification.

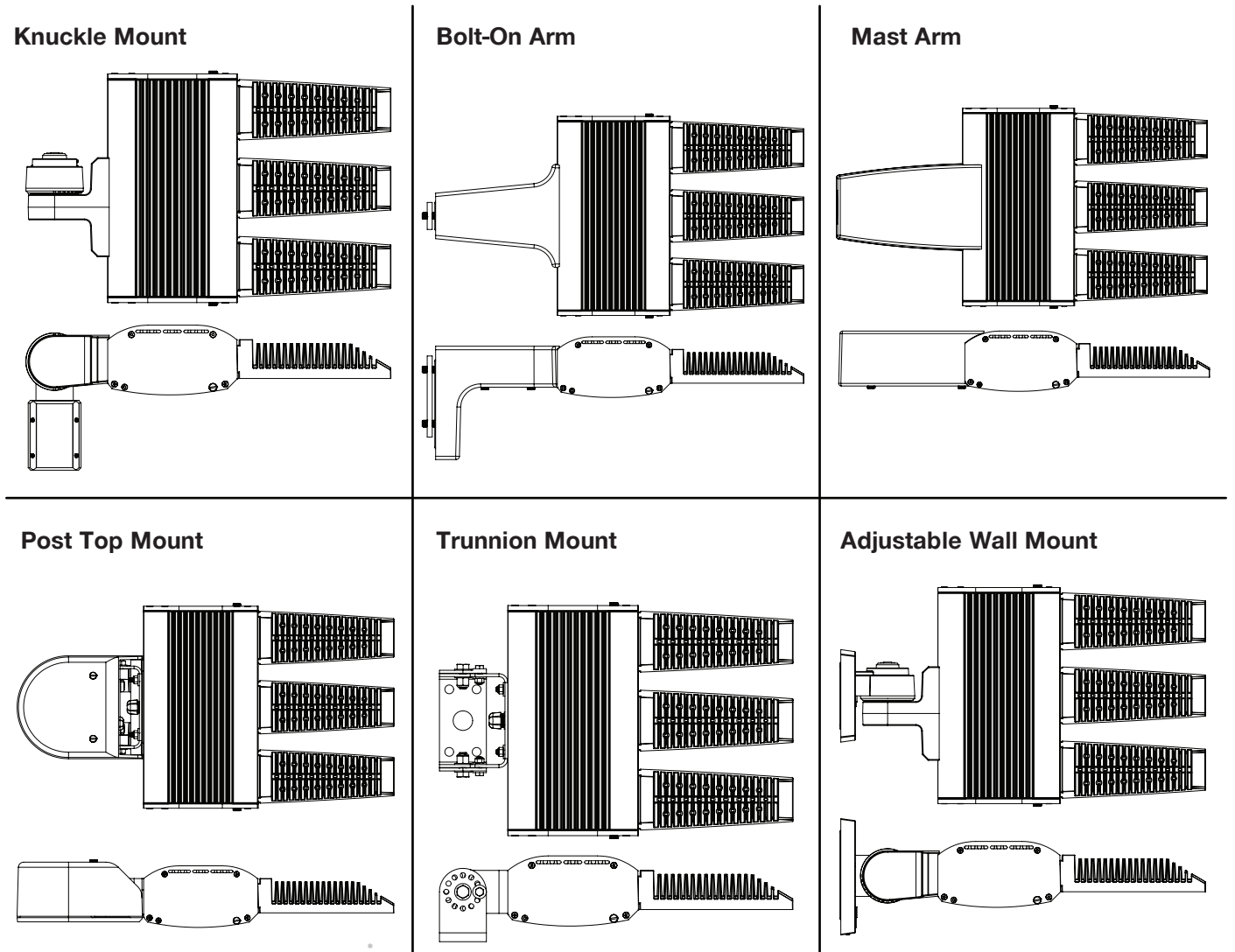
BSX-II ARRAY LED Specifications

Photometric Optical Summary



Dimensions

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



LED Specifications **BSX-II ARRAY**

BSX-II ARRAY - 3K LUMEN DATA													
Lumens	Current	LEDs	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Watts
5L	350	32AR BSX-II-2	4752	4744	4645	4647	4640	4642	4699	4763	4581	4759	33
10L	700		9021	9006	8818	8820	8809	8811	8920	9042	8696	9033	68
15L	1050		13180	13159	12884	12886	12871	12873	13032	13210	12706	13198	102
20L	1050	48AR BSX-II-3	20065	20032	19613	19615	19593	19595	19840	20111	19342	20092	152
25L	1200		22359	22323	21856	21858	21834	21836	22109	22411	21554	22390	172
30L	1200	64AR BSX-II-4	29432	29384	28770	28772	28740	28742	29102	29499	28372	29473	230
35L	1400		33133	33079	32388	32390	32355	32357	32761	33209	31940	33179	263
BSX-II ARRAY - 4K LUMEN DATA													
Lumens	Current	LEDs	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Watts
5L	350	32AR BSX-II-2	5263	5254	5144	5146	5139	5141	5204	5275	5073	5270	33
10L	700		9990	9974	9765	9767	9755	9757	9878	10013	9630	10004	68
15L	1050		14596	14572	14268	14270	14253	14255	14432	14629	14071	14616	102
20L	1050	48AR BSX-II-3	22220	22184	21720	21722	21698	21700	21971	22271	21420	22251	152
25L	1200		24761	24721	24204	24206	24180	24182	24483	24818	23870	24796	172
30L	1200	64AR BSX-II-4	32593	32540	31860	31862	31828	31830	32228	32668	31420	32638	230
35L	1400		36692	36632	35867	35869	35830	35832	36280	36776	35371	36743	263
BSX-II ARRAY - 5K LUMEN DATA													
Lumens	Current	LEDs	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Watts
5L	350	32AR BSX-II-2	5263	5254	5144	5146	5139	5141	5204	5275	5213	5270	33
10L	700		9990	9974	9765	9767	9755	9757	9878	10013	9630	10004	68
15L	1050		14596	14572	14268	14270	14253	14255	14432	14629	14071	14616	102
20L	1050	48AR BSX-II-3	22220	22184	21720	21722	21698	21700	21971	22271	21420	22251	152
25L	1200		24761	24721	24204	24206	24180	24182	24483	24818	23870	24796	172
30L	1200	64AR BSX-II-4	32593	32540	31860	31862	31828	31830	32228	32668	31420	32638	230
35L	1400		36692	36632	35867	35869	35830	35832	36280	36776	35371	36743	263

EPA Data			
Tilt Deg.	BSX-2	BSX-3	BSX-4
0	.58	.58	.59
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
Weight			
BSX-2	BSX-3	BSX-4	
16 LBS	21LBS	26 LBS	

BSX-II ARRAY LED Specifications

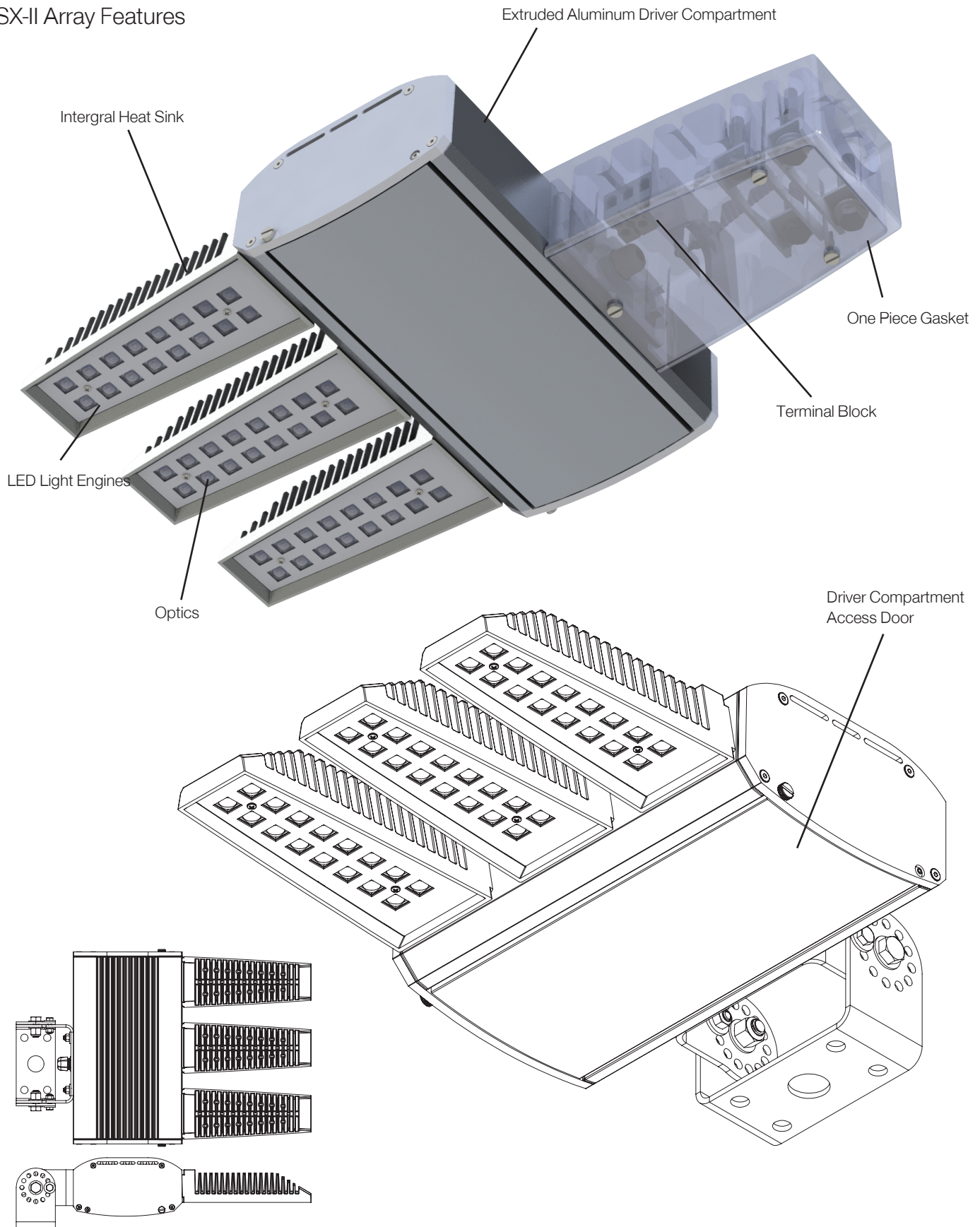
BSX-II ARRAY - 3K LUMEN PER WATT DATA													
Lumens	Current	LEDs	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Watts
5L	350	32AR BSX-II-2	144	144	141	141	141	141	142	144	139	144	33
10L	700		133	132	130	130	130	130	131	133	128	133	68
15L	1050		129	129	126	126	126	126	126	128	130	125	129
20L	1050	48AR BSX-II-3	132	132	129	129	129	129	131	132	127	132	152
25L	1200		130	130	127	127	127	127	129	130	125	130	172
30L	1200	64AR BSX-II-4	128	128	125	125	125	125	127	128	123	128	230
35L	1400		126	126	123	123	123	123	125	126	121	126	263
BSX-II ARRAY - 4K LUMEN PER WATT DATA													
Lumens	Current	LEDs	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Watts
5L	350	32AR BSX-II-2	159	159	156	156	156	156	158	160	154	160	33
10L	700		147	147	144	144	143	143	145	147	142	147	68
15L	1050		143	143	140	140	140	140	141	143	138	143	102
20L	1050	48AR BSX-II-3	146	146	143	143	143	143	145	147	141	146	152
25L	1200		144	144	141	141	141	141	142	144	139	144	172
30L	1200	64AR BSX-II-4	142	141	139	139	138	138	140	142	137	142	230
35L	1400		140	139	136	136	136	136	138	140	134	140	263
BSX-II ARRAY - 5K LUMEN PER WATT DATA													
Lumens	Current	LEDs	T1	T2	T3	T3L	T4	T4A	T4L	T5LR	T5LS	T5SR	Watts
5L	350	32AR BSX-II-2	159	159	156	156	156	156	158	160	158	160	33
10L	700		147	147	144	144	143	143	145	147	142	147	68
15L	1050		143	143	140	140	140	140	141	143	138	143	102
20L	1050	48AR BSX-II-3	146	146	143	143	143	143	145	147	141	146	152
25L	1200		144	144	141	141	141	141	142	144	139	144	172
30L	1200	64AR BSX-II-4	142	141	139	139	138	138	140	142	137	142	230
35L	1400		140	139	136	136	136	136	138	140	134	140	263

LED Specifications **BSX-II ARRAY**

BSX-II ARRAY - 3K BUG DATA																																	
LUMENS	Current	LEDs	T1			T2			T3			T3L			T4			T4L			T4A			T5SR			T5LR			T5LS			Watts
			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	
5L	350MA	32AR BSX-II-2	2	0	2	1	0	1	1	0	1	2	0	2	1	0	1	1	0	2	1	0	1	2	0	1	3	0	1	3	0	1	33
10L	700MA		3	0	3	2	0	2	2	0	2	3	0	3	2	0	2	2	0	2	2	0	2	3	0	1	3	0	2	3	0	2	68
15L	1050MA		4	0	4	3	0	3	2	0	2	3	0	3	3	0	3	3	0	3	2	0	2	3	0	2	4	0	3	4	0	2	102
20L	1050MA	48AR BSX-II-3	4	0	4	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	4	0	2	4	0	3	4	0	2	152
25L	1200MA		4	0	4	3	0	3	3	0	3	4	0	4	3	0	3	3	0	4	3	0	3	4	0	2	4	0	3	4	0	3	172
30L	1200MA	64AR BSX-II-4	5	0	5	4	0	4	3	0	4	4	0	4	3	0	4	4	0	4	4	0	3	5	0	3	5	0	4	5	0	3	230
35L	1400MA		5	0	5	4	0	4	3	0	4	4	0	5	4	0	4	4	0	5	4	0	3	5	0	3	5	0	4	5	0	4	263
BSX-II ARRAY - 4K BUG DATA																																	
LUMENS	Current	LEDs	T1			T2			T3			T3L			T4			T4L			T4A			T5SR			T5LR			T5LS			Watts
			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	
5L	350MA	32AR BSX-II-2	3	0	3	1	0	1	1	0	1	2	0	2	1	0	1	2	0	2	1	0	1	2	0	1	3	0	2	3	0	1	33
10L	700MA		3	0	3	2	0	2	2	0	2	3	0	3	2	0	2	3	0	3	2	0	2	3	0	2	3	0	2	3	0	2	68
15L	1050MA		4	0	4	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	4	0	2	4	0	3	4	0	2	102
20L	1050MA	48AR BSX-II-3	4	0	4	3	0	3	3	0	3	4	0	4	3	0	3	3	0	4	3	0	3	4	0	2	4	0	3	4	0	3	152
25L	1200MA		4	0	4	3	0	3	3	0	3	4	0	4	3	0	3	4	0	4	3	0	3	4	0	2	5	0	3	5	0	3	172
30L	1200MA	64AR BSX-II-4	5	0	5	4	0	4	3	0	4	4	0	5	4	0	4	4	0	5	4	0	3	5	0	3	5	0	4	5	0	4	230
35L	1400MA		5	0	5	4	0	4	4	0	4	4	0	5	4	0	4	4	0	5	4	0	4	5	0	3	5	0	4	5	0	4	263
BSX-II ARRAY - 5K BUG DATA																																	
LUMENS	Current	LEDs	T1			T2			T3			T3L			T4			T4L			T4A			T5SR			T5LR			T5LS			Watts
			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	
5L	350MA	32AR BSX-II-2	3	0	3	1	0	1	1	0	1	2	0	2	1	0	1	2	0	2	1	0	1	2	0	1	3	0	2	3	0	1	33
10L	700MA		3	0	3	2	0	2	2	0	2	3	0	3	2	0	2	3	0	3	2	0	2	3	0	2	3	0	2	3	0	2	68
15L	1050MA		4	0	4	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	3	0	3	4	0	2	4	0	3	4	0	2	102
20L	1050MA	48AR BSX-II-3	4	0	4	3	0	3	3	0	3	4	0	4	3	0	3	3	0	4	3	0	3	4	0	2	4	0	3	4	0	3	152
25L	1200MA		4	0	4	3	0	3	3	0	3	4	0	4	3	0	3	4	0	4	3	0	3	4	0	2	5	0	3	5	0	3	172
30L	1200MA	64AR BSX-II-4	5	0	5	4	0	4	3	0	4	4	0	5	4	0	4	4	0	5	4	0	3	5	0	3	5	0	4	5	0	4	230
35L	1400MA		5	0	5	4	0	4	4	0	4	4	0	5	4	0	4	4	0	5	4	0	4	5	0	3	5	0	4	5	0	4	263

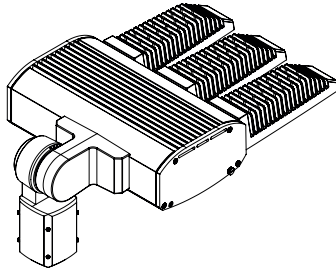
BSX-II Array LED Array Specifications

BSX-II Array Features



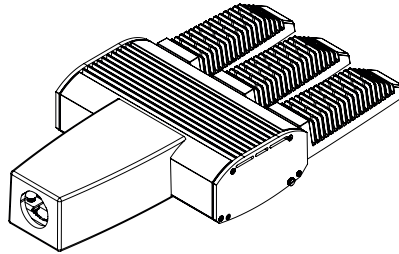
BSX-II Array Mounting Options

Knuckle Mount



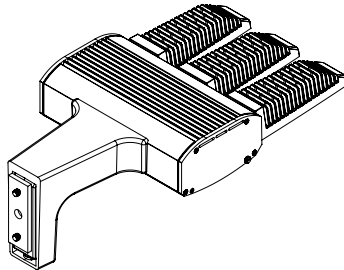
An adjustable knuckle slip fits over a 2 3/8" Tenon, and allows for up to 50° degrees of vertical adjustment in 10° degree increments from horizontal, as well as full side to side adjustment with the knuckle mount.

Mast Arm Mount



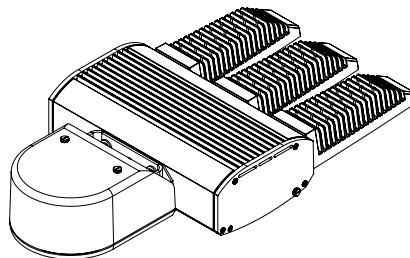
Mast Arm (MA) Fitter fits over a 2" - 2-3/8" tenon and supplied with terminal block as standard.

Bolt-on Arm



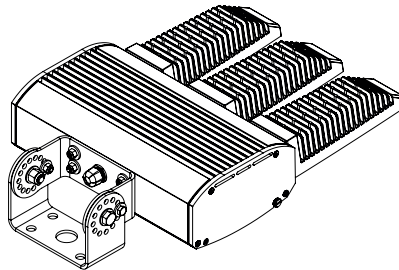
The Bolt-On Arm (BOA) utilizes a 2 piece cleat system for easy installation. A Round Pole Plate Adaptor (RPP) is required for mounting to round poles.

Post Top Mount



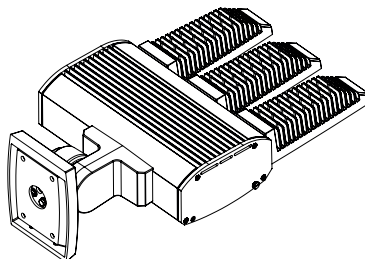
Post Top fits over a 2 3/8" tenon and is adjustable up to 45°.

Trunnion Mount



Trunnion Mount is adjustable up to 50°.

Wall Mount



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