

BLB LED Specifications

Garage - Ceiling - Commercial - Industrial - Indoor



The new BOW Low Bay LED Luminaire from Visionaire uses innovative heat-sinking with all aluminum construction and cutting edge LED technology to deliver a wide range of light output that replaces 250W to 1000W HID and four to eight lamp T5/T8 high intensity fluorescent fixtures for Low Bay applications. Choose from 2 or 4 independent die-cast light engines with up to 1200 mA drivers.

Our sealed LED optics offer very uniform light distribution and are available in five distribution patterns of: Aisle Wide, Aisle Diffused, Symmetrical Narrow, Symmetrical Narrow Diffused, Symmetrical Medium, Symmetrical Medium Diffused, Symmetrical Wide and Symmetrical Wide Diffused. Choose from 2700, 3000, 3500, 4000, or 5000 Kelvin temperature of the LEDs.

Mounting options include chain or cable ready as standard, 1/2" threaded rod, and 3/4" conduit. Other options include Motion Sensors, Emergency battery pack and 10' & 15' cords.

2 or 4 die-cast light engines with external cooling fins, for maximum heat dissipation for long life of the LEDs. The drivers are open to the air for cooler operation. Temperature rated for -40° C to +65° C operations. Improved thermal management of the Light Bars, allows for up to 65°C ambient temperature ratings and -40°C minimum operating temperature; and over 100,000 hours of life at L70.

LED Technology

64 or 128 LEDs available in 350, 530, 700 or 1000mA ratings.

2700, 3000, 3500, 4000 or 5000 Kelvin temperature are available.

Project Name:

Catalog Number:

Type:

Date:

Location:

MODEL	OPTICS		LEDs	CURRENT	CCT
BLB-2	AW Aisle Wide	SM Symmetrical Medium 90°	64LD	3 350mA	27K7 27K8 27K9 2700K 70, 80, & 90 CRI
BLB-4	AD Aisle Diffused * 700mA or Lower	SMD Symmetrical Medium Diffused 90° * 700mA or Lower	128LD	5 530mA	30K7 30K8 30K9 3000K 70, 80, & 90 CRI
	SN Symmetrical Narrow 40°	SW Symmetrical Wide 120°		7 700mA	35K7 35K8 35K9 3500K 70, 80, & 90 CRI
	SND Symmetrical Narrow Diffused 40° * 700mA or Lower	SWD Symmetrical Wide Diffused 120° * 700mA or Lower		10 1050mA	40K7 40K8 40K9 4000K 70, 80, & 90 CRI
				12 1200mA	50K7 50K8 50K9 5000K 70, 80, & 90 CRI
VOLTAGE	MOUNTING	FINISH	CONTROL OPTIONS	OPTIONS	MOUNTING ACCESSORIES
UNV 120-277V	CBM Cable Mount * Cable Ordered Separately Hardware Not Included	WH White	DIM 0-10v Dimming Driver	WG Wire Guard	YH5 Y-Cable With Hook 5' Height
8 347V		GY Grey	DTO Dim to Off Driver	10CD 10' Cord	YH10 Y-Cable With Hook 10' Height
5 480V	CPM 1/2" Mount * Threaded Rod and Nuts Not Included	ZFP Zinc-Free Primer Coat	WSP6-L2 WSP6-L3 WSP6-L7 8' Mounting Height 9-20' Mounting Height 21-40' Mounting Height	15CD 15' Cord	YH15 Y-Cable With Hook 15' Height * To be ordered with CBM Mounting
	CDM 3/4" Conduit Mount * Conduit Not Included	CC Custom Color	WSC-8 WSC-20 WSC-40 8' Mounting Height 9-20' Mounting Height 21-40' Mounting Height * The WSC option will require (1) FSIR 100 remote for programming Z10 or Z18 Zhaga 4 Pin Receptacle VWC Visionaire Wireless Control EBPL Emergency Battery Pack	BBS Bird Spikes BAA Buy America(n) Act Compliant	HK Hook * To be ordered with 3/4" CDM Mount

Housing

The LED light engines are constructed of heavy-duty, die-cast aluminum, with external heat radiating fins. The driver compartment allows for easy access, cooler operation and longer life.

Thermal Management

The BOW Low Bay Series provides excellent overall thermal management by maximizing the fixture's heat sink capabilities. This enables the BOW Low Bay Series to withstand higher ambient temperatures and drive currents without degrading LED life. The BOW Low Bay Series has a low thermal resistance rating. The heat radiating fins create superior thermal management results.

The L70 test determines the point in an LEDs life when it reaches 70 percent of its initial output. The BOW Low Bay Series LEDs have been determined to last a minimum of 100,000 hours in 25°C environments when driven at 350 mA. See LED Data Chart for additional test results.

Optical System

The highest lumen output LEDs are utilized in the BLB Series. Distribution Types include Aisle Wide, Aisle Diffused, Symmetrical Narrow 40°, Symmetrical Narrow Diffused 40°, Symmetrical Medium 90°, Symmetrical Medium Diffused 90°, Symmetrical Wide 120° and Symmetrical Wide Diffused 120°. LED light assemblies come in multiples of 32 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.

• Finish is guaranteed for five (5) years.

Mounting

Available standard for:

- Cable Mount
- 1/2" Threaded Rod
- 3/4" Conduit
- Trunnion Mount

Electrical Assembly

The BOW Low Bay Series is supplied with a choice of 350, 530, 700, 1050 or 1200mA high-performance LED drivers that accept 120v thru 480v, 50 Hz to 60 Hz, input. Power factor of 90%.

Rated for -40 °C to +65 °C temperature operations.

10 kV surge protector supplied as standard.

5' Cord as standard.

• 0-10v Dimming Driver is standard.

Warranty

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

Options

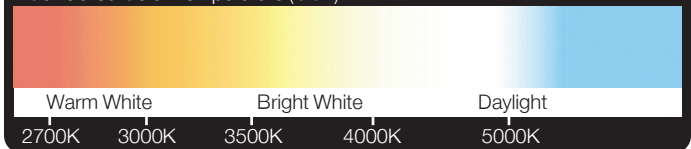
- Wattstopper Plus
- Motion Sensor/Control Wattstopper FSP-211
- Motion Sensor (On/Off)
- Wireless Control
- Emergency Battery Pack
- Wire Guard
- Cord 10' / 15'
- Dimming Leads
- BAA

Listings

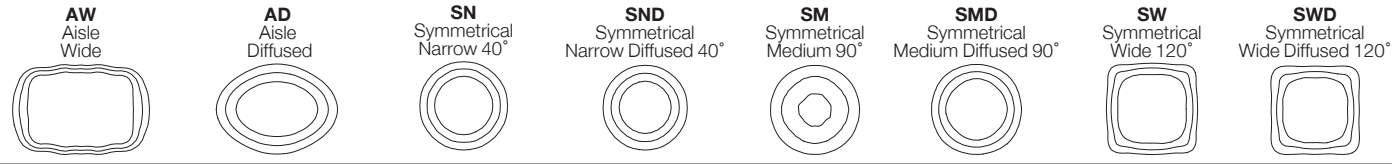
- UL/cUL listed UL 1598 Suitable for damp locations
- UL 8750 LED equipment in Lighting Products
- Powder Coated Tough™

**Light Color**

Correlated Color Temperature (CCT)



Photometric Optical Summary



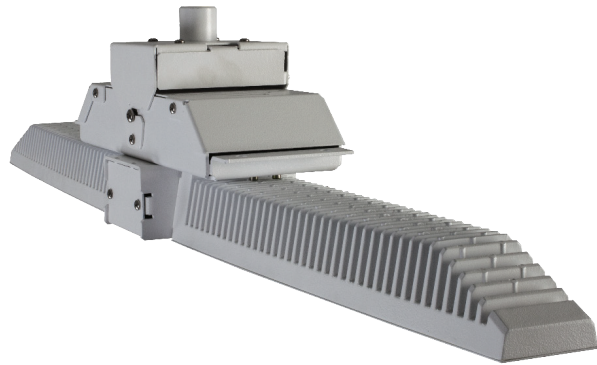
Dimensions

Width: BLB-2 40"
BLB-4 40"

Depth: BLB-2 6"
BLB-4 11"

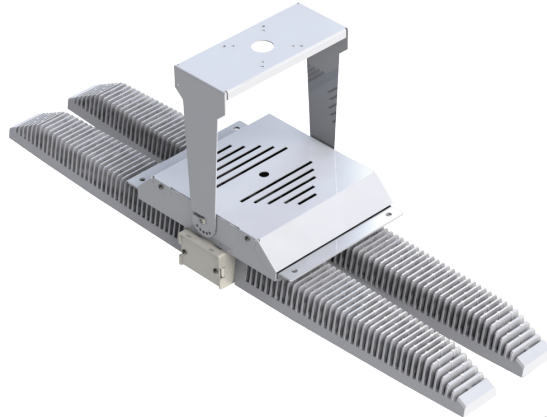
Height: BLB-2 5"
BLB-4 5"

BLB-2 3/4" Conduit Mount



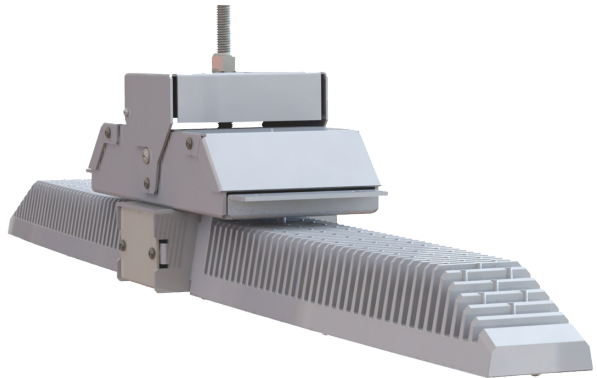
16LBS

BLB-4 Trunnion Mount



30LBS

BLB-2 1/2" Mount

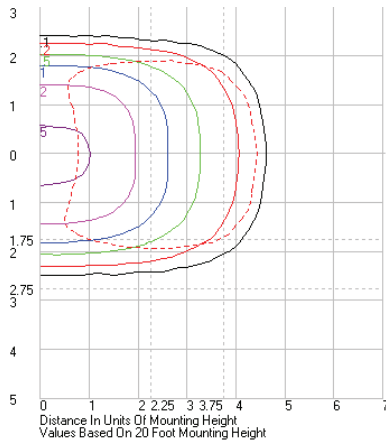
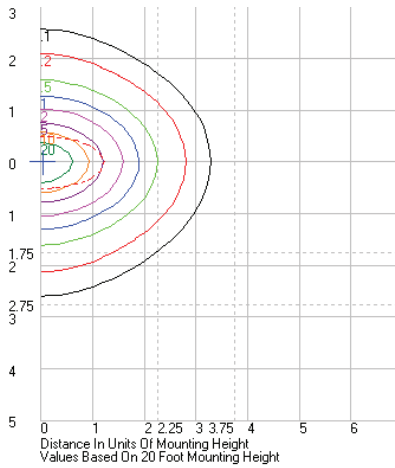
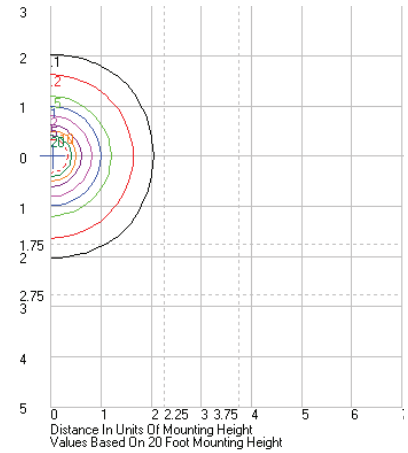
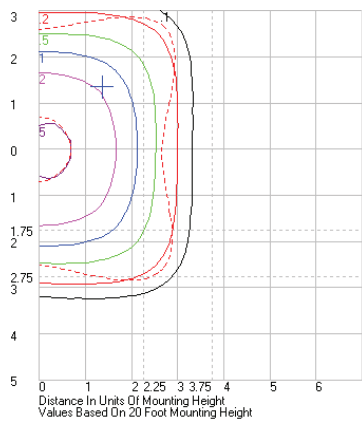
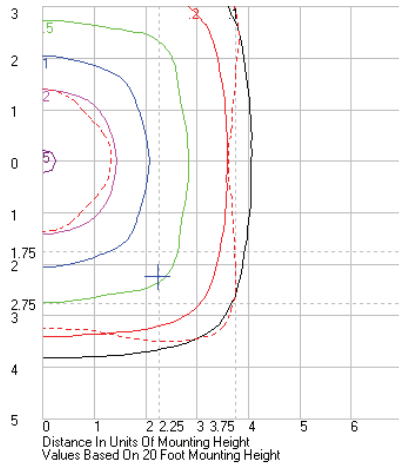


16LBS

BLB-4 Cable Mount



30LBS

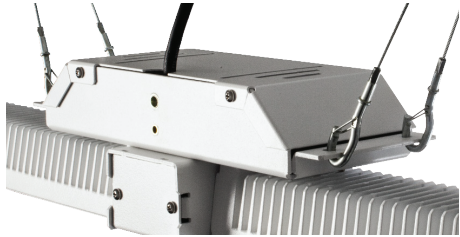
Photometrics/ISO Line**Aisle Wide****Aisle Diffused****Symmetrical Narrow 40°****Symmetrical Medium 90°****Symmetrical Wide 120°**

The BOW Low Bay series optical lens system enables LEDs to provide precise illumination where needed. Lenses are designed for commercial & industrial applications where mounting height, fixture spacing & light levels help determine lens selection. The following table outlines lens options and suggested application.

Optic Application Guide		
	Mounting Height	Space Type
Aisle Wide	15-25'	Isle with storage racks
Aisle Diffused	26+	Isle with storage racks
Symmetrical Narrow 40°	41'+	Open Floor Space
Symmetrical Medium 90°	26'-40	Open Floor Space
Symmetrical Wide 120°	15-25'	Open Floor Space

Mounting Options

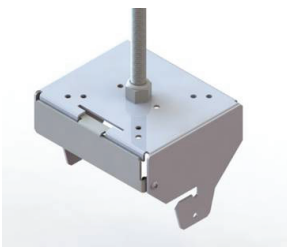
Cable Mount



Cable Mount

Available on with Bow Low Bay configurations
Y Cable With Hook to be ordered as a mounting accessory

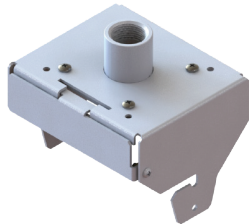
3/8" Threaded Rod Mount



3/8" Threaded Rod Mount

Available with Bow Low Bay size 2 and 4
Attaches to 3/8" threaded rod (Rod and hardware not included)

3/4" Conduit Mount



3/4" Conduit Mount

Available on with Bow Low Bay configurations
Attaches to 3/4" threaded conduit or hook (Conduit and hardware not included)

Mounting Accesories

Y-Cable With Hook



Y-Cable With Hook

Available on with Bow Low Bay configurations
Must order with Cable Mount option
Available in 5', 10' and 15'

Hook



Image as reference

Hook

Available on Bow Highbay configurations
Must order 3/4" Conduit Mount with the Hook for a Mounting Accessory

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



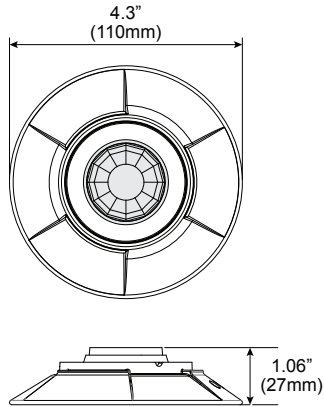
FSP-221



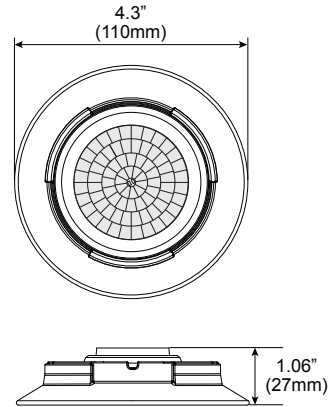
Lens with Shroud Dimensions

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

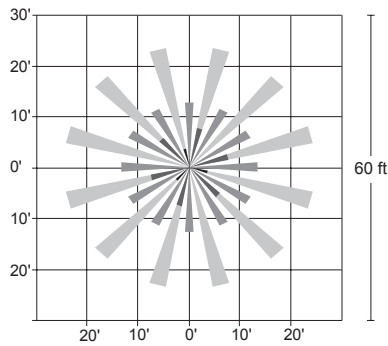
FSP-L2-S and FSP-L3-S



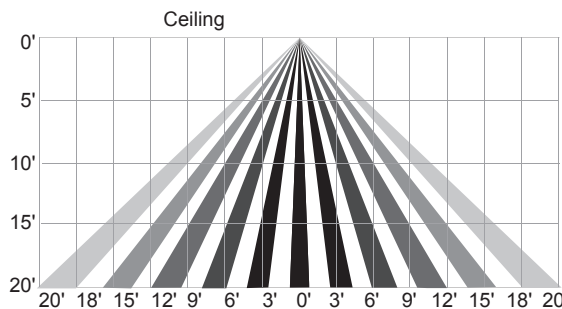
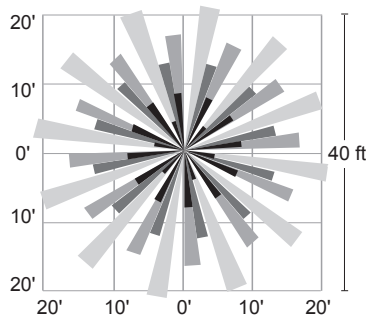
FSP-L7-S



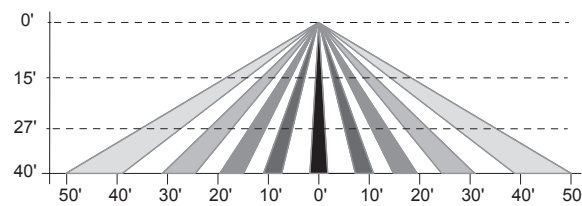
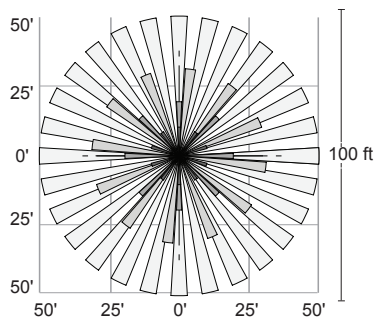
COVERAGE



FSP-L2 top and side coverage patterns

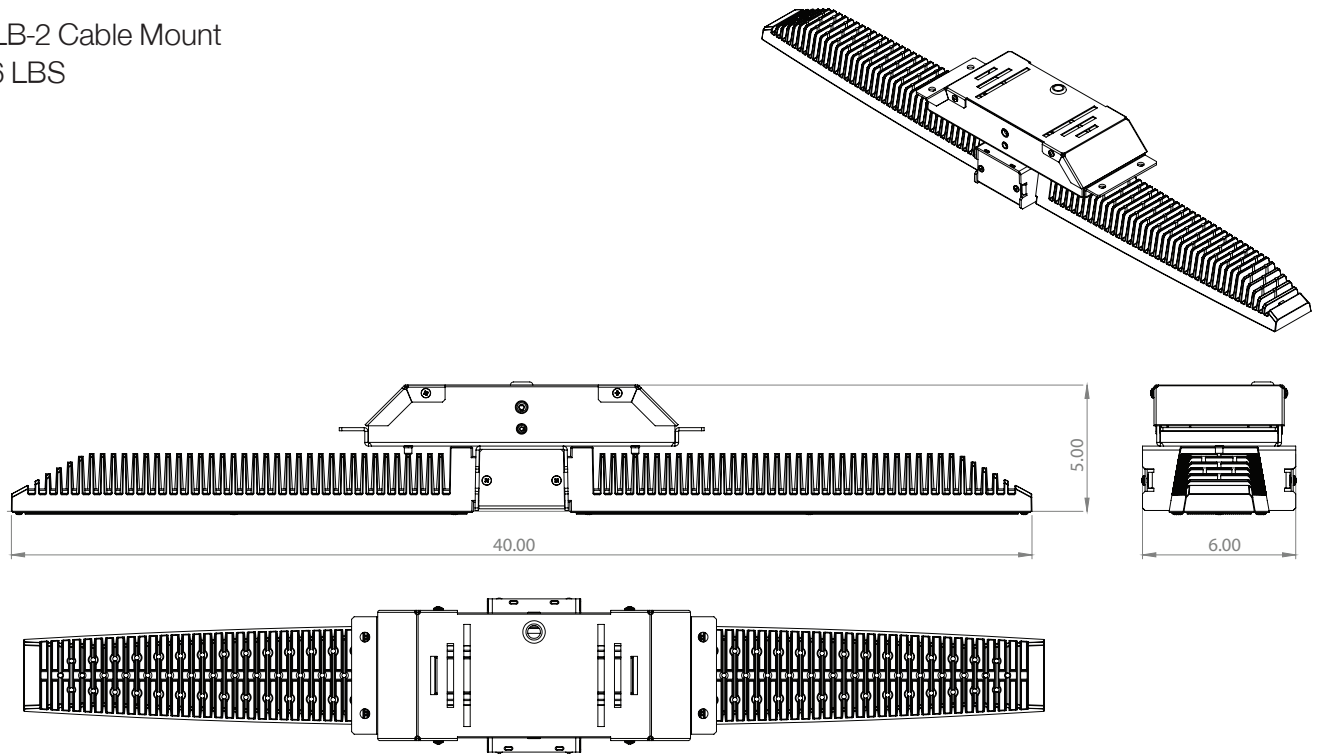


FSP-L3 top and side coverage patterns

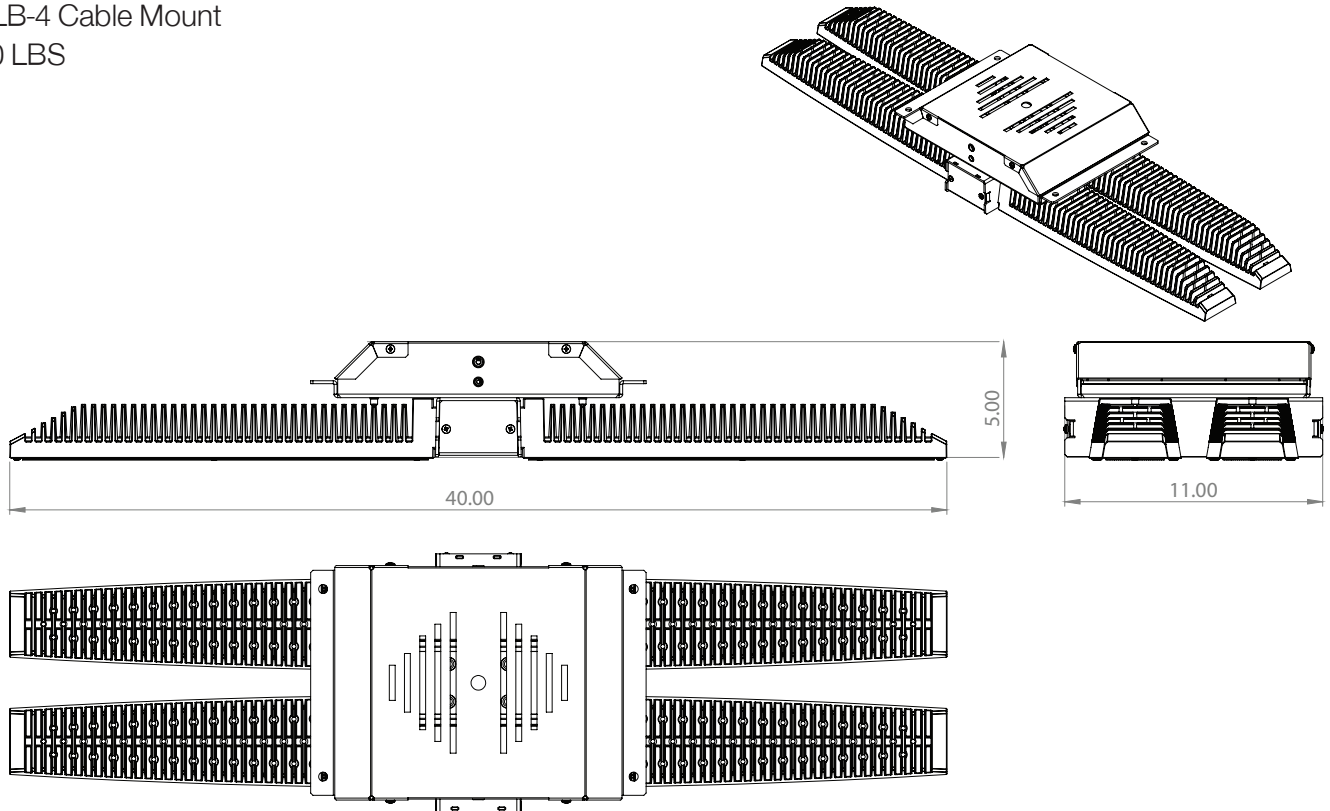


FSP-L7 top and side coverage patterns

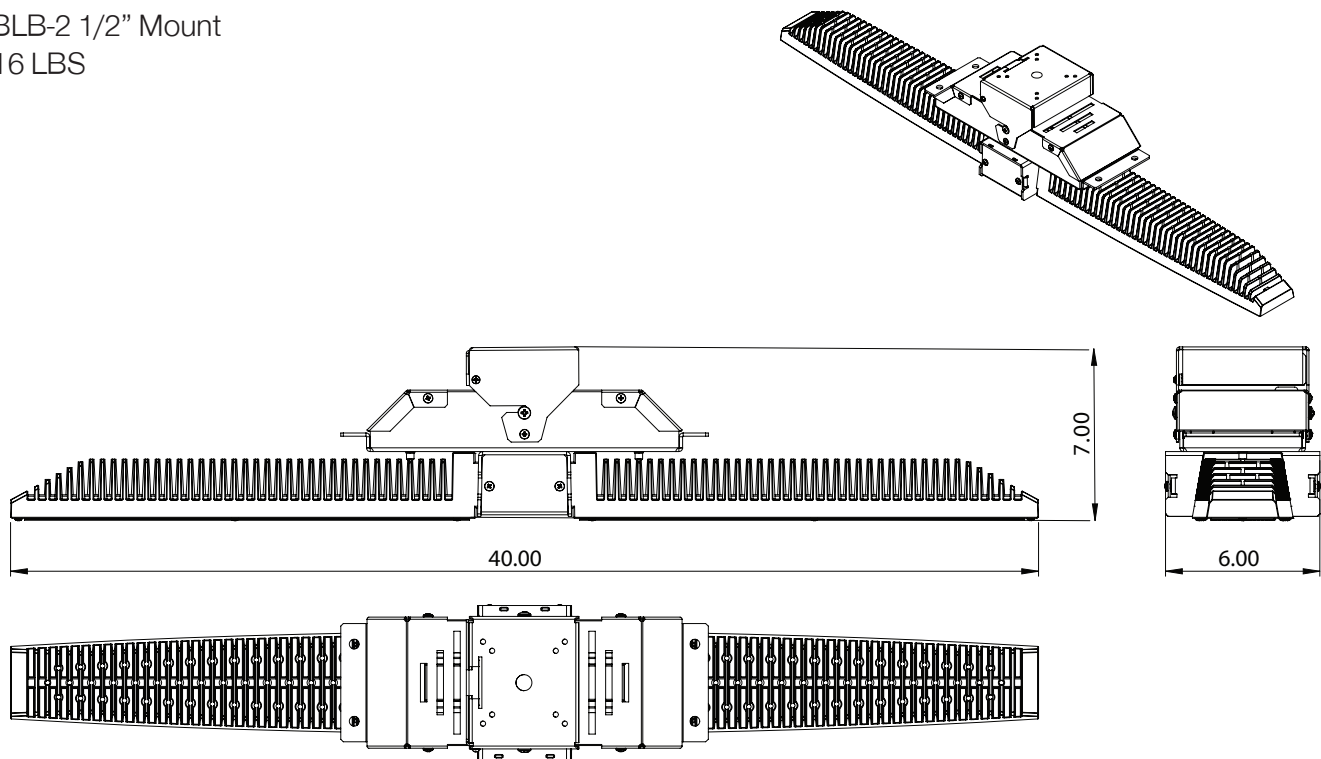
BLB-2 Cable Mount
16 LBS



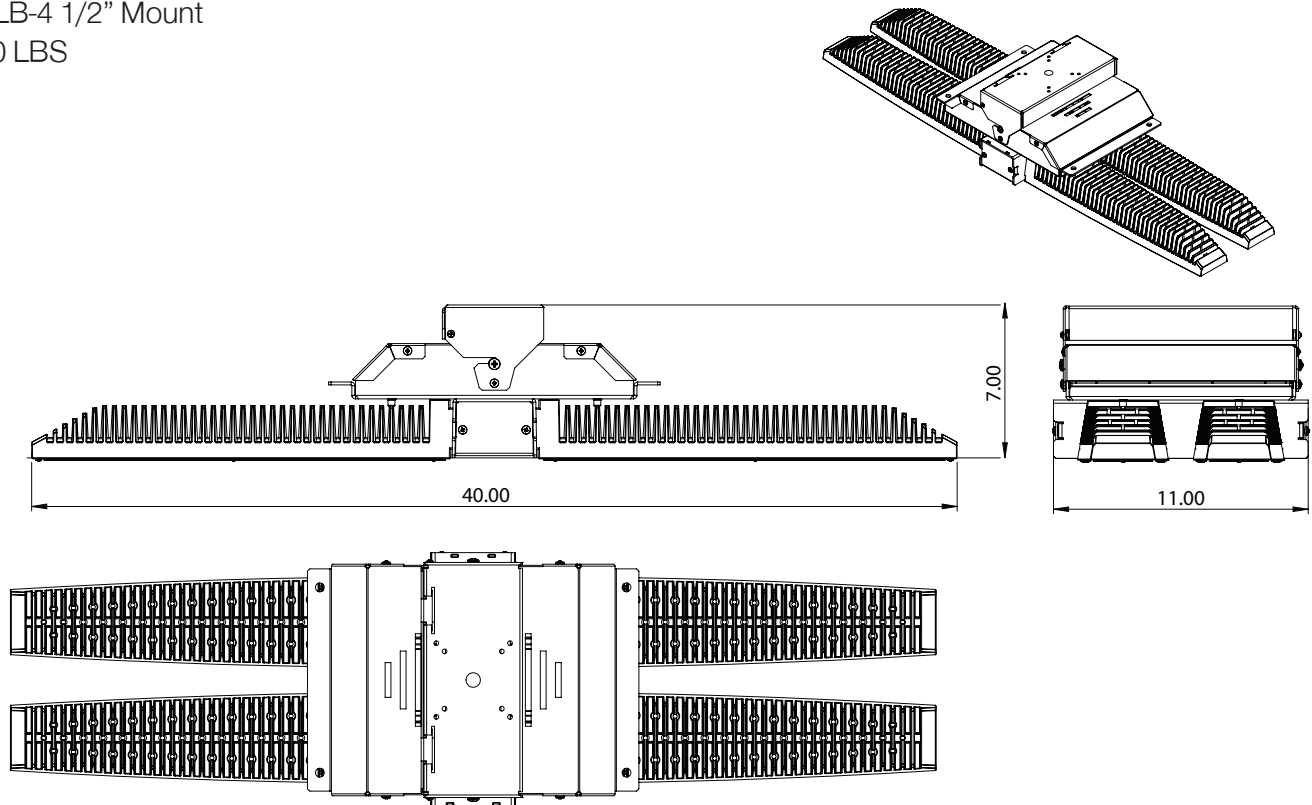
BLB-4 Cable Mount
30 LBS



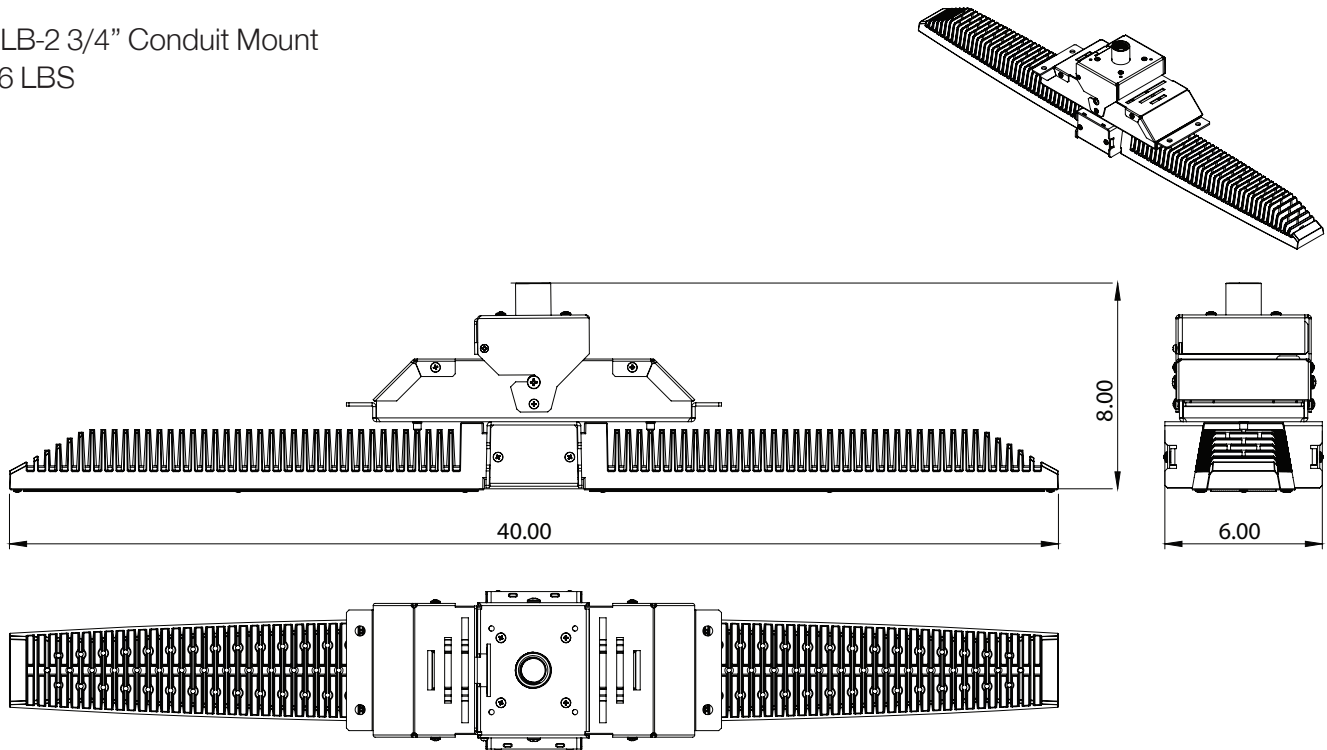
BLB-2 1/2" Mount
16 LBS



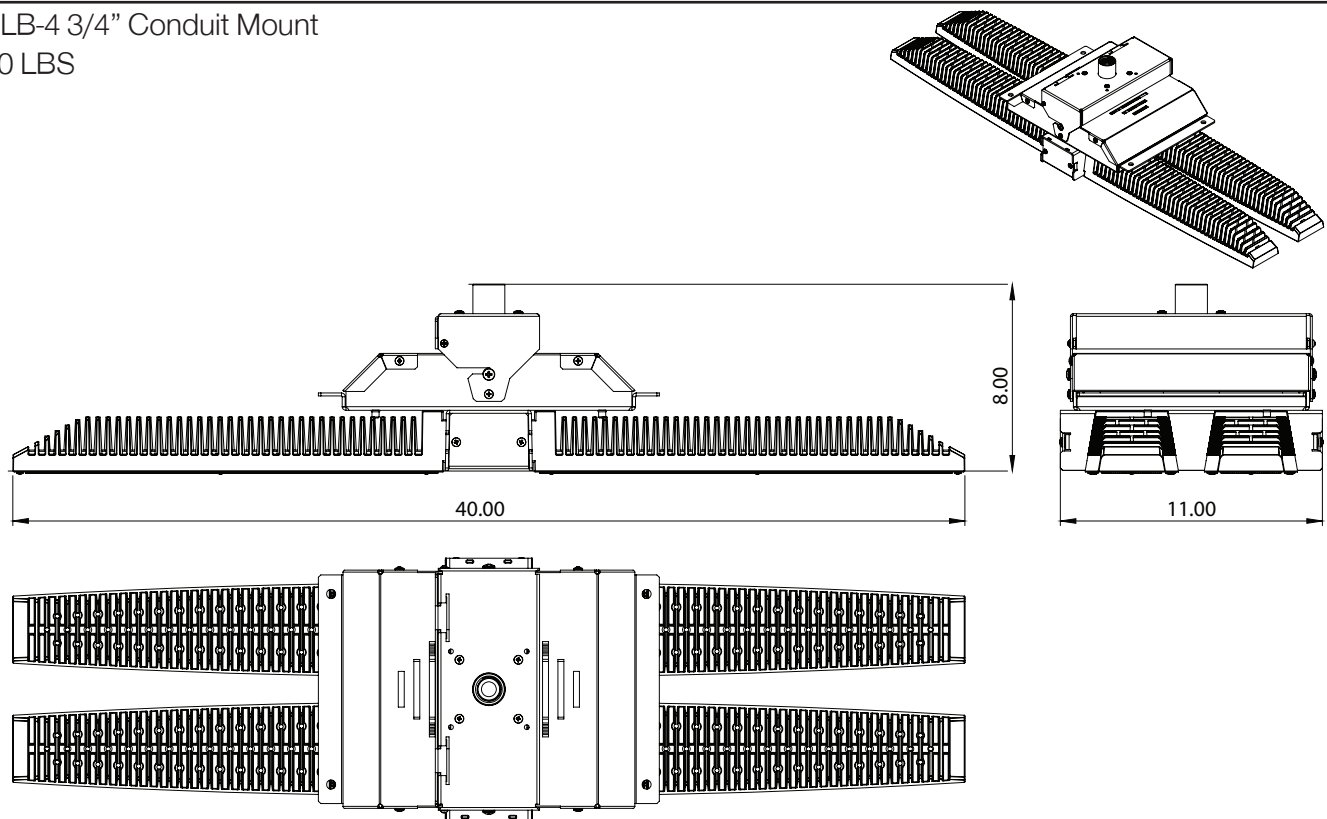
BLB-4 1/2" Mount
30 LBS



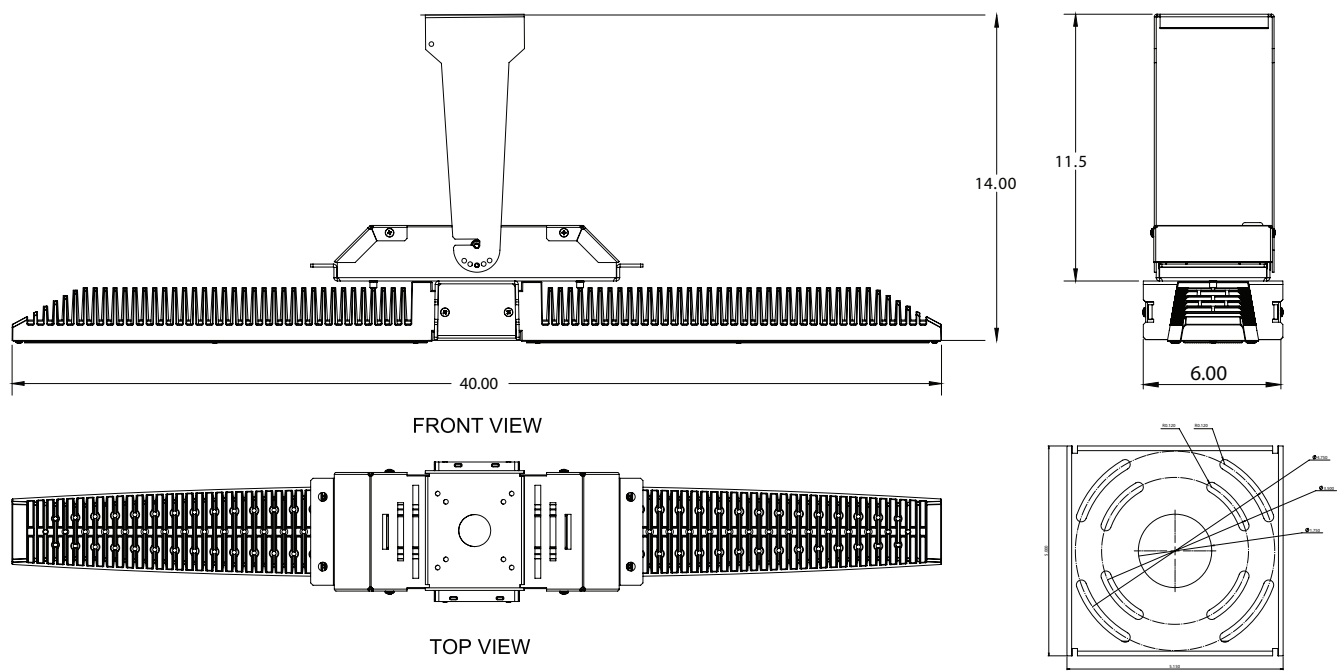
BLB-2 3/4" Conduit Mount
16 LBS



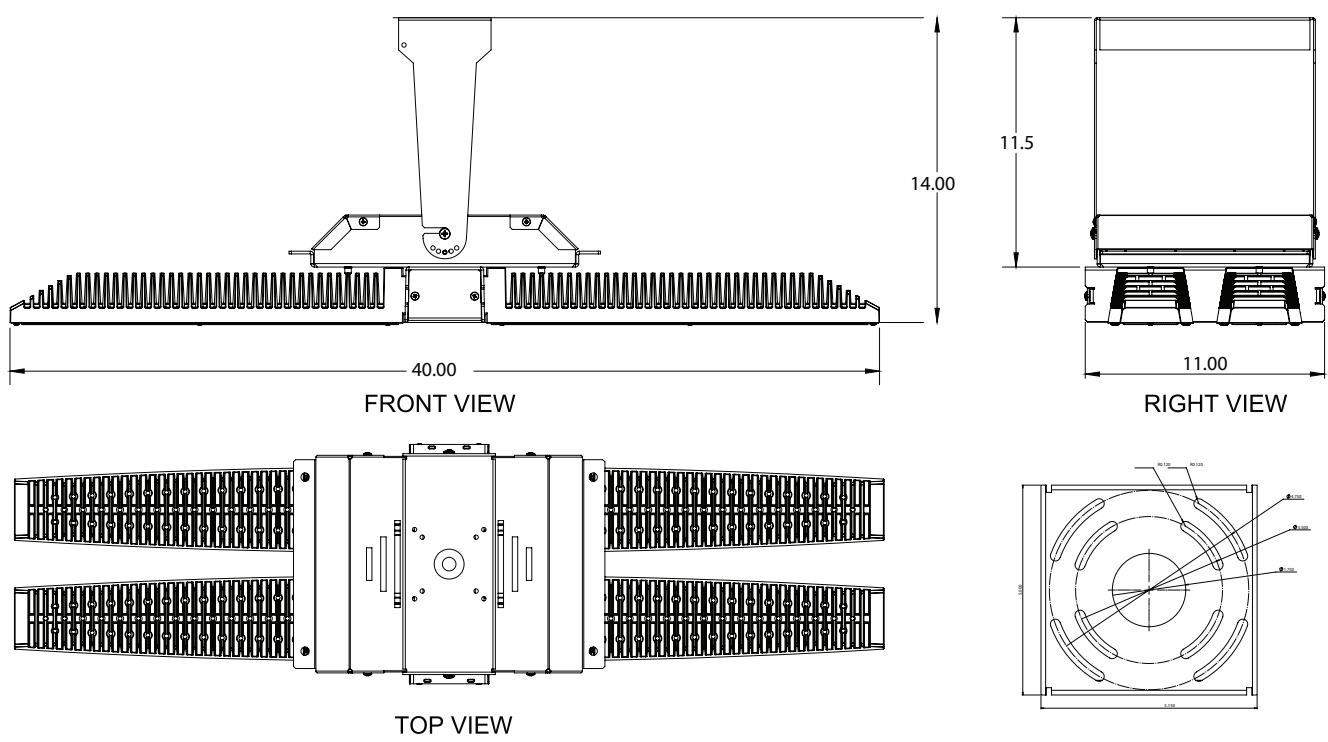
BLB-4 3/4" Conduit Mount
30 LBS



BLB-2 Trunnion Mount
16 LBS



BLB-4 Trunnion Mount
30 LBS



LUMENS 2700K 70CRI																			
MODEL	# LEDs	Current (mA)	AW	LPW	AD	LPW	SN	LPW	SND	LPW	SM	LPW	SMD	LPW	SW	LPW	SWD	LPW	WATTS
BLB-2	64LD	350	9315	142	9200	140	10044	153	9481	144	10045	153	8894	135	9212	140	8094	123	67
		530	13880	137	13710	135	14968	148	14129	139	14969	148	13254	131	13727	135	12061	119	101
		700	18068	133	17846	131	19483	143	18391	135	19485	143	17252	127	17988	131	15699	116	140
		1050	25711	123			27725	132			27727	132			25427	121			210
		1200	28316	117			30534	126			30537	126			28004	116			242
BLB-4	128LD	350	18592	141	18364	140	20049	153	18925	144	20050	153	17753	135	18387	140	16155	123	132
		530	27705	137	27366	135	29876	147	28201	139	29878	147	26455	130	27400	135	24073	119	203
		700	36063	133	35621	131	38889	143	36708	135	38891	143	34435	127	35665	131	31336	115	272
		1050	51318	122			55339	132			55343	132			50753	121			419
		1200	56518	117			60947	126			60951	126			55895	116			483

LUMENS 3000K 70CRI																			
MODEL	# LEDs	Current (mA)	AW	LPW	AD	LPW	SN	LPW	SND	LPW	SM	LPW	SMD	LPW	SW	LPW	SWD	LPW	WATTS
BLB-2	64LD	350	9702	148	9583	146	10462	159	9875	150	10463	159	9264	141	9595	146	8430	128	67
		530	14457	143	14280	141	15590	154	14716	145	15591	154	13805	136	14298	141	12562	124	101
		700	18819	138	18588	137	20293	149	19155	141	20294	149	17969	132	18611	137	16352	120	140
		1050	26779	128			28877	138			28879	138			26484	126			210
		1200	29493	122			31804	132			31806	132			29168	121			242
BLB-4	128LD	350	19365	147	19127	145	20882	159	19711	150	20884	159	18491	141	19151	146	16826	128	132
		530	28857	142	28503	141	31118	153	29373	145	31120	153	27555	136	28539	141	25074	124	203
		700	37562	138	37102	137	40505	149	38234	141	40508	149	35867	132	37148	137	32638	120	272
		1050	53451	128			57640	138			57644	138			52862	126			419
		1200	58868	122			63480	131			63485	131			58219	121			483

LUMENS 3500K 70CRI																			
MODEL	# LEDs	Current (mA)	AW	LPW	AD	LPW	SN	LPW	SND	LPW	SM	LPW	SMD	LPW	SW	LPW	SWD	LPW	WATTS
BLB-2	64LD	350	9702	148	9583	146	10462	159	9875	150	10463	159	9264	141	9595	146	8430	128	67
		530	14457	143	14280	141	15590	154	14716	145	15591	154	13805	136	14298	141	12562	124	101
		700	18819	138	18588	137	20293	149	19155	141	20294	149	17969	132	18611	137	16352	120	140
		1050	26779	128			28877	138			28879	138			26484	126			210
		1200	29493	122			31804	132			31806	132			29168	121			242
BLB-4	128LD	350	19365	147	19127	145	20882	159	19711	150	20884	159	18491	141	19151	146	16826	128	132
		530	28857	142	28503	141	31118	153	29373	145	31120	153	27555	136	28539	141	25074	124	203
		700	37562	138	37102	137	40505	149	38234	141	40508	149	35867	132	37148	137	32638	120	272
		1050	53451	128			57640	138			57644	138			52862	126			419
		1200	58868	122			63480	131			63485	131			58219	121			483

LUMENS 4000K 70CRI																			
MODEL	# LEDs	Current (mA)	AW	LPW	AD	LPW	SN	LPW	SND	LPW	SM	LPW	SMD	LPW	SW	LPW	SWD	LPW	WATTS
BLB-2	64LD	350	9650	147	9532	145	10406	158	9823	149	10407	158	9215	140	9544	145	8385	128	67
		530	14380	142	14204	140	15507	153	14638	144	15508	153	13731	135	14222	140	12495	123	101
		700	18718	138	18489	136	20185	149	19053	140	20187	149	17874	132	18512	136	16265	120	140
		1050	26637	127			28724	137			28726	137			26343	126			210
		1200	29336	121			31634	131			31637	131			29012	120			242
BLB-4	128LD	350	19262	147	19026	145	20771	158	19607	149	20773	158	18392	140	19049	145	16737	127	132
		530	28703	142	28352	140	30952	153	29217	144	30955	153	27408	135	28387	140	24941	123	203
		700	37362	137	36904	136	40290	148	38031	140	40293	148	35676	131	36950	136	32464	119	272
		1050	53167	127			57333	137			57337	137			52581	125			419
		1200	58555	121			63143	131			63147	131			57909	120			483

LUMENS 5000K 70CRI																			
MODEL	# LEDs	Current (mA)	AW	LPW	AD	LPW	SN	LPW	SND	LPW	SM	LPW	SMD	LPW	SW	LPW	SWD	LPW	WATTS
BLB-2	64LD	350	10125	154	10000	152	10918	166	10306	157	10919	166	9668	147	10013	152	8797	134	67
		530	15087	149	14902	147	16270	160	15357	151	16271	160	14406	142	14921	147	13110	129	101
		700	19639	145	19398	143	21177	156	19990	147	21179	156	18752	138	19422	143	17064	126	140
		1050	27946	133			30136	144			30138	144			27638	132			210
		1200	30778	127			33190	137			33192	137			30439	126			242
BLB-4	128LD	350	20209	154	19961	152	21792	166	20570	156	21794	166	19297	147	19986	152	17560	134	132
		530	30114	149	29745	147	32474	160	30653	151	32476	160	28755	142	29782	147	26167	129	203
		700	39199	144	38719	142	42270	156	39901	147	42273	156	37430	138	38767	143	34060	125	272
		1050	55781	133			60152	143			60156	144			55166	132			419
		1200	61433	127			66247	137			66251	137			60756	126			483