

# BOW HIGH BAY LED Specifications



Project Name:

Catalog Number:

Type:

The NEW Visionaire BOW High Bay LED Luminaire is designed to efficiently light any large interior space such as Factories, Aircraft Hangars, Warehouses, Distribution Centers, and many other large indoor spaces with mounting heights of up to 70'. It combines the innovative design of individual heat sinks with cutting edge LED technology; and makes an ideal replacement for conventional HID and fluorescent high bay systems. This series offers higher efficacy than others in the past and can be combined with options such as wireless controls and motion sensors for even increased energy savings and virtually no maintenance costs.

The 32 LED Light engines are die-cast aluminum with external heat radiating fins for maximum heat dissipation. This innovative design uses 2,4,6, or 8 light engines (64 to 256 LEDs) operating with 350, 530, 700 or 1050 mA drivers. The externally mounted IP-67 Drivers operate cooler for long life and increased output. 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.

Our sealed LED optics offer very uniform light distribution and are available in eight 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 3000, 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.

A full five year limited warranty is included on the entire system, including the polyester powder coat finish. The NEW Bow High Bay Series makes an excellent choice for many different market applications.

## Ordering Information

MODEL	OPTICS	LEDS	CURRENT	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS	OPTIONS	MOUNTING ACCESSORIES
<b>BHB-2</b>	<b>AW</b> Aisle Wide	<b>64LC</b>	<b>3</b> 350mA	<b>3K</b> 3000K	<b>UNV</b> 120-277V	<b>CBM</b> Cable Mount *Cable Ordered Separately Hardware Not Included	<b>WH</b> White	<b>WSC-8</b> Motion Sensor 8' Mounting Height	<b>VWC</b> Visionaire Wireless Controls *Consult Factory	<b>YH5</b> Y-Cable With Hook 5' Height
<b>BHB-4</b>	<b>AD</b> Aisle Diffused	<b>128LC</b>	<b>5</b> 530mA	<b>4K</b> 4000K	<b>8</b> 347V	<b>CPM</b> 1/2" Mount *Threaded Rod and Nuts Not Included	<b>GY</b> Grey	<b>WSC-20</b> Motion Sensor 9-20' Mounting Height	<b>EBPL</b> Emergency Battery Pack	<b>YH10</b> Y-Cable With Hook 10' Height
<b>BHB-6</b>	<b>SN</b> Symmetrical Narrow 40°	<b>192LC</b>	<b>7</b> 700mA	<b>5K</b> 5000K	<b>5</b> 480V	<b>CDM</b> 3/4" Conduit Mount *Conduit Not Included		<b>WSC-40</b> Motion Sensor *WSC options will require (1) FSIR 100 remote for programming	<b>WG</b> Wire Guard	<b>YH15</b> Y-Cable With Hook 15' Height *To be ordered with CBM Mounting
<b>BHB-8</b>	<b>SND</b> Symmetrical Narrow Diffused 40°	<b>256LC</b>	<b>10</b> 1050mA 1050mA not offered with AD, SND, SMD, & SWD					<b>MS-8</b> Motion Sensor 8' Mounting Height *Not available in 480V	<b>10CD</b> 10' Cord	<b>HK</b> Hook *To be ordered with 3/4" CDM Mount
	<b>SM</b> Symmetrical Medium 90°							<b>MS-20</b> Motion Sensor 9-20' Mounting Height *Not available in 480V	<b>15CD</b> 15' Cord	
	<b>SMD</b> Symmetrical Medium Diffused 90°							<b>MS-40</b> Motion Sensor 21-40' Mounting Height *Not available in 480V	<b>DIM</b> 0-10v Dimming Driver *Not Controls	
	<b>SW</b> Symmetrical Wide 120°									
	<b>SWD</b> Symmetrical Wide Diffused 120°									

# Features & Specifications

**BHB**

## Housing

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

The exposed driver(s) allow for easy access and allow for cooler operation and longer life.

## Thermal Management

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

## 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

Available standard for:

- Cable Mount
- 1/2" Mount
- 3/4" Conduit

## Electrical Assembly

The BOW High Bay Series is supplied with a choice of 350, 530, 700 or 1000 mA 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](http://visionairelighting.com).

## Options

- Motion Sensor/Control Watt Stopper FSP-211
- Motion Sensor (On/Off)
- Wireless Control
- Emergency Battery Pack
- Wire Guard
- Cord

## Listings









- IP66 Rated
- UL 8750 LED equipment in Lighting Products
- Powder Coated Tough™
- DLC Listed



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 for IDA certification.

# BOW HIGH BAY LED Specifications

## Photometric Optical Summary

AW	AD	SN	SND	SM	SMD	SW	SWD
Aisle Wide	Aisle Diffused	Symmetrical Narrow 40°	Symmetrical Narrow Diffused 40°	Symmetrical Medium 90°	Symmetrical Medium Diffused 90°	Symmetrical Wide 120°	Symmetrical Wide Diffused 120°
							

## Dimensions

**Width:** BHB-2 40"  
 BHB-4 40"  
 BHB-6 40"  
 BHB-8 40"

**Depth:** BHB-2 6"  
 BHB-4 11"  
 BHB-6 15.5"  
 BHB-8 20"

**Height:** BHB-2 19"  
 BHB-4 19"  
 BHB-6 19"  
 BHB-8 19"

**BHB-2 W/EBPL**



16LBS

**BHB-4 W/Motion Sensor**



30LBS

**BHB-6**



46LBS

**BHB-8**



59LBS

BHB 3K Lumen Data										
# LEDs	mA	Aisle Wide	Aisle Diffused	SN 40°	SND 40°	SM 90°	SMD 90°	SW 120°	SWD 120°	Watts
64	350	10710	9391	10735	8547	10054	8263	9356	7970	71
	530	15787	13842	15824	12599	14820	12180	13791	11749	109
	700	19452	17056	19498	15524	18261	15007	16992	14476	143
	1000	29327		29396		27531		25619		218
128	350	20286	17787	20334	16189	19044	15650	17721	15097	138
	530	30203	26482	30274	24104	28353	23301	26384	22477	220
	700	37653	33014	37741	30049	35347	29049	32892	28021	288
	1000	50619		50737		47518		44218		430
192	350	31698	27793	31772	25297	29757	24455	27690	23589	212
	530	44279	38824	44383	35337	41567	34161	38680	32952	314
	700	57491	50408	57626	45881	53970	44354	50222	42785	440
	1000	77022		77203		72305		67283		666
256	350	37969	33291	38058	30301	35643	29292	33168	28256	284
	530	51443	45105	51563	41054	48292	39688	44938	38283	423
	700	69029	60525	69191	55089	64801	53255	60300	51371	579
	1000	99237		99469		93159		86689		862
BHB 4K Lumen Data										
# LEDs	mA	Aisle Wide	Aisle Diffused	SN 40°	SND 40°	SM 90°	SMD 90°	SW 120°	SWD 120°	Watts
64	350	11274	9885	11300	8997	10583	8698	9848	8390	71
	530	16618	14571	16657	13262	15600	12821	14517	12367	109
	700	20476	17953	20524	16341	19222	15797	17887	15238	143
	1000	30871		30943		28980		26967		218
128	350	21354	18723	21404	17041	20046	16474	18654	15891	138
	530	31793	27876	31867	25372	29845	24528	27773	23660	220
	700	39635	34752	39728	31631	37207	30578	34623	29496	288
	1000	53283		53408		50019		46545		430
192	350	33366	29256	33445	26628	31323	25742	29147	24831	212
	530	46609	40867	46719	37197	43755	35959	40716	34686	314
	700	60517	53061	60659	48296	56811	46688	52865	45036	440
	1000	81076		81266		76110		70824		666
256	350	39967	35043	40061	31896	37519	30834	34913	29743	284
	530	54150	47479	54277	43215	50834	41776	47303	40298	423
	700	72662	63710	72832	57988	68212	56058	63474	54074	579
	1000	104460		104705		98062		91251		862
BHB 5K Lumen Data										
# LEDs	mA	Aisle Wide	Aisle Diffused	SN 40°	SND 40°	SM 90°	SMD 90°	SW 120°	SWD 120°	Watts
64	350	10818	9486	10844	8634	10156	8346	9451	8051	71
	530	15947	13940	15984	12726	14970	12303	13930	11867	109
	700	19649	17228	19695	15681	18445	15159	17164	14622	143
	1000	29623		29693		27809		25878		218
128	350	20491	17967	20539	16353	19236	15809	17900	15249	138
	530	30508	26750	30580	24347	28640	23537	26651	22704	220
	700	38033	33348	38123	30353	35704	29342	33224	28304	288
	1000	51130		51250		47998		44665		430
192	350	32018	28074	32093	25552	30057	24702	27970	23828	212
	530	44726	39216	44831	35694	41987	34506	39071	33285	314
	700	58072	50918	58208	46344	54515	44802	50729	43217	440
	1000	77800		77983		73035		67963		666
256	350	38352	33627	38442	30607	36003	29588	33503	28541	284
	530	51962	45561	52084	41469	48780	40088	45392	38670	423
	700	69726	61136	69890	55645	65456	53793	60910	51890	579
	1000	100239		100474		94100		87564		862

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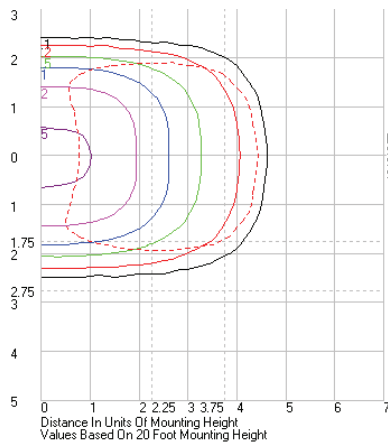
BHB 3K Lumen Per Watt Data										
# LEDs	mA	Aisle Wide	Aisle Diffused	SN 40°	SND 40°	SM 90°	SMD 90°	SW 120°	SWD 120°	Watts
64	350	151	132	151	120	142	116	132	112	71
	530	144	127	145	115	135	111	126	107	109
	700	136	119	136	108	128	105	119	101	143
	1000	135		135		126		118		218
128	350	147	129	147	117	138	113	128	109	138
	530	137	120	138	110	129	106	120	102	220
	700	131	115	131	104	123	101	114	97	288
	1000	118		118		111		103		430
192	350	150	131	150	119	140	115	131	111	212
	530	141	124	142	113	133	109	123	105	314
	700	131	115	131	104	123	101	114	97	440
	1000	116		116		109		101		666
256	350	134	117	134	107	126	103	117	99	284
	530	122	107	122	97	114	94	106	91	423
	700	119	105	120	95	112	92	104	89	579
	1000	115		115		108		101		862
BHB 4K Lumen Per Watt Data										
# LEDs	mA	Aisle Wide	Aisle Diffused	SN 40°	SND 40°	SM 90°	SMD 90°	SW 120°	SWD 120°	Watts
64	350	159	139	159	127	149	123	139	118	71
	530	152	133	152	121	143	117	133	113	109
	700	143	125	143	114	134	110	125	106	143
	1000	142		142		133		124		218
128	350	155	136	155	123	145	119	135	115	138
	530	145	127	145	115	136	111	126	108	220
	700	138	121	138	110	129	106	120	102	288
	1000	124		124		116		108		430
192	350	157	138	158	126	148	121	137	117	212
	530	149	130	149	119	140	115	130	111	314
	700	138	121	138	110	129	106	120	102	440
	1000	122		122		114		106		666
256	350	141	123	141	112	132	109	123	105	284
	530	128	112	128	102	120	99	112	95	423
	700	125	110	126	100	118	97	110	93	579
	1000	121		121		114		106		862
BHB 5K Lumen Per Watt Data										
# LEDs	mA	Aisle Wide	Aisle Diffused	SN 40°	SND 40°	SM 90°	SMD 90°	SW 120°	SWD 120°	Watts
64	350	152	134	153	122	152	121	142	117	71
	530	146	127	146	116	132	120	123	115	109
	700	137	120	138	110	124	113	116	109	143
	1000	136		136		123		115		218
128	350	148	130	149	118	132	119	123	115	138
	530	139	122	139	111	132	120	123	115	220
	700	132	116	132	105	139	111	130	107	288
	1000	119		119		122		113		430
192	350	151	132	151	121	157	124	146	120	212
	530	143	125	143	114	148	117	138	113	314
	700	132	116	132	105	137	109	127	105	440
	1000	117		117		121		113		666
256	350	135	118	135	108	140	111	130	107	284
	530	123	108	123	98	127	101	119	98	423
	700	120	106	121	96	125	99	116	96	579
	1000	116		117		121		112		862



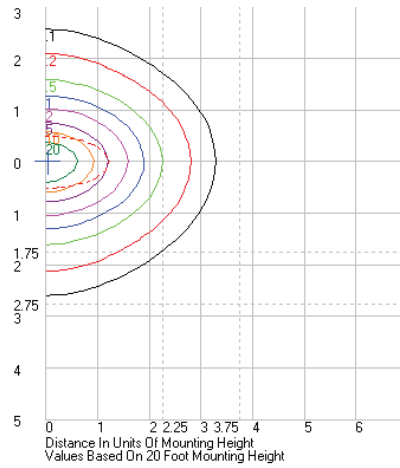
# BHB LED Specifications

## Photometrics/ISO Line

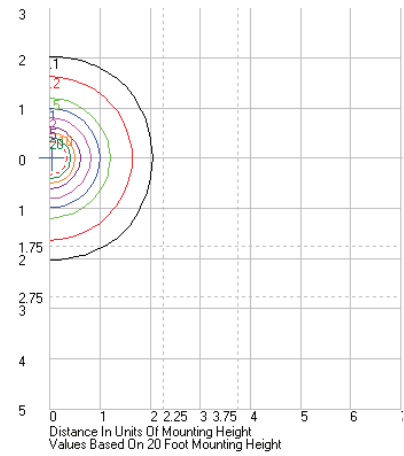
**Aisle Wide**



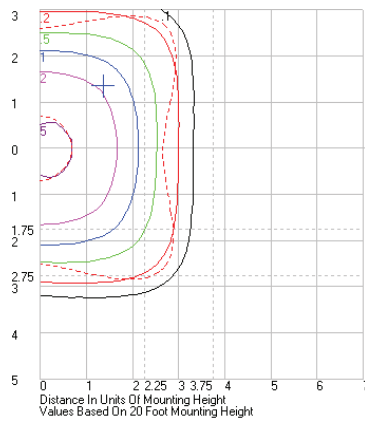
**Aisle Diffused**



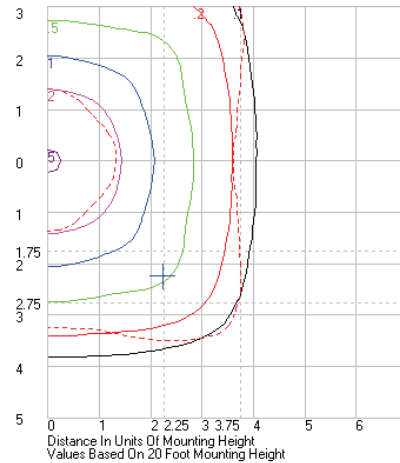
**Symmetrical Narrow 40°**



**Symmetrical Medium 90°**








**Symmetrical Wide 120°**



The BOW High 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

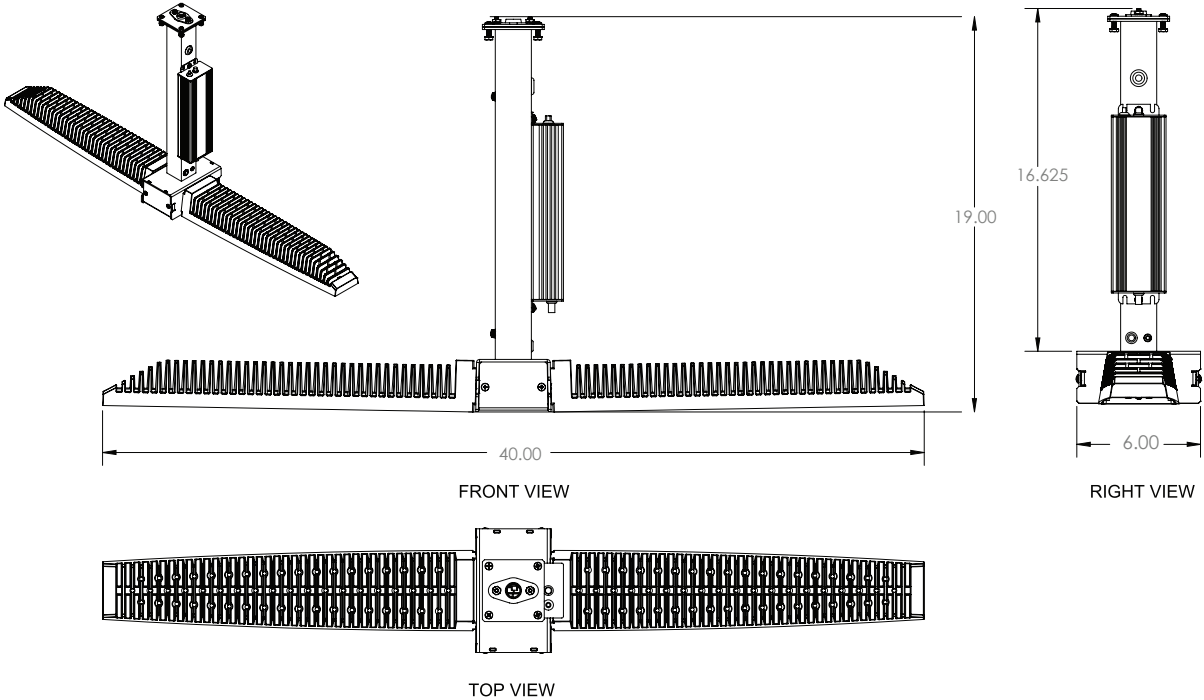
**Mounting Options**

<p>Cable Mount</p> 	<p>Cable Mount</p> <p>Available on with Bow High Bay configurations Y Cable / Hook to be ordered as a mounting accessory</p>
<p>1/2" Mount</p> 	<p>1/2" Mount</p> <p>Available on all Bow High Bay size configurations Attaches to 1/2" threaded rod (Rod and hardware not included)</p>
<p>3/4" Conduit Mount</p> 	<p>3/4" Conduit Mount</p> <p>Available on Bow High Bay configurations Attaches to 3/4" threaded conduit or hook (Conduit and hardware not included)</p>
<b>Mounting Accesories</b>	
<p>Y-Cable / Hook</p> 	<p>Y-Cable / Hook</p> <p>Available on with Bow Highbay configurations Must order with Cable Mount option Available in 5', 10' and 15'</p>
<p>Hook</p> 	<p>Hook</p> <p>Available on Bow Highbay configurations Must order 3/4" Conduit Mount with the Hook for a Mounting Accessory</p>

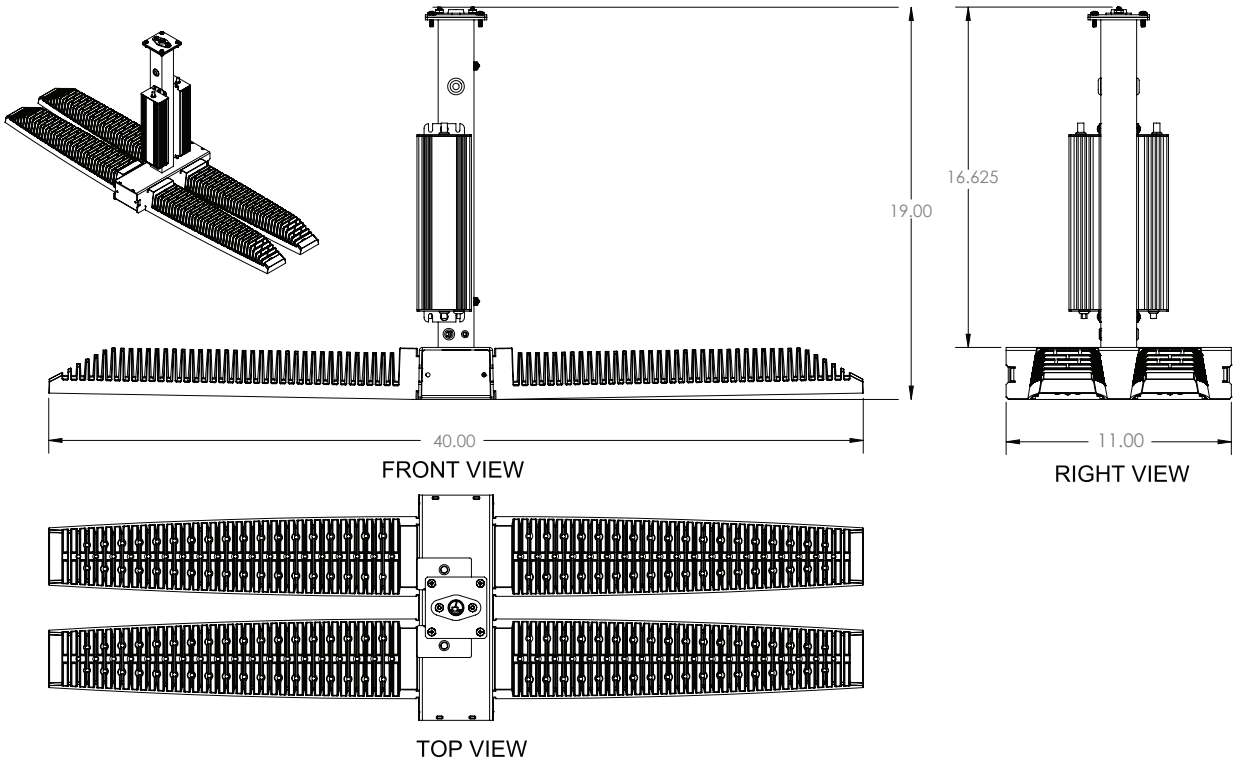


# BHB LED Specifications

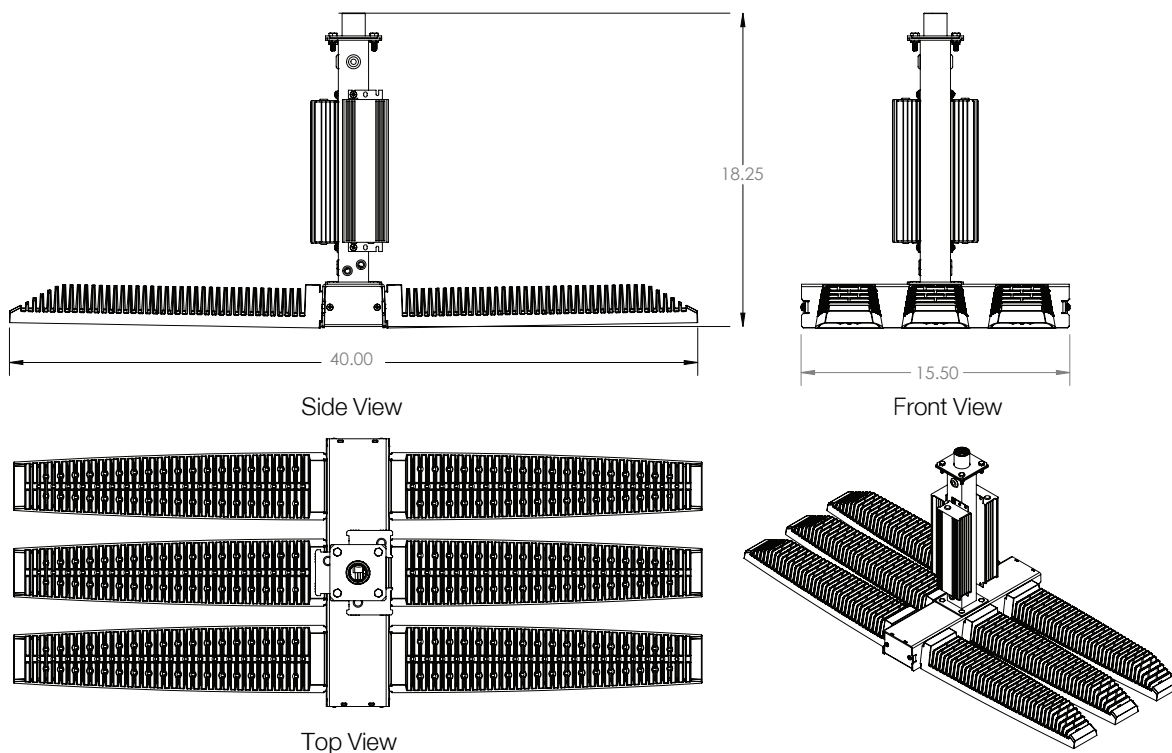
BHB-2



BHB-4



BHB-6



BHB-8

