Product #	Type	Date
Project Name		
Project Location	Pi	repared By

#### Construction

- Housing and lens frame are constructed from heavy-duty low copper die-cast aluminum. Material is structurally rigid and uniformly dissipates heat for longer lumen maintenance lifehours. Standard finish is black polyester powder coat paint. Other finishes are available upon request.
- Structurally rigid and robust yoke with pivot adjustment for unconstrained adjustment without large swing.
- All external hardware and components are made of corrosion resistance materials and protective finishes.
- Cleverly engineered heat sink allows natural air to flow between heat fins to optimize thermal management of the LEDs and Optics.
- Modular component assemblies allow for quick replacement.
- Choice of Power 450 or 600 watts.

### **Optical System**

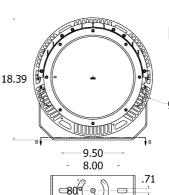
- Precisely designed modular TIR optics direct light where it is needed, reducing glare and spill light.
- Choice of optical beam distributions 15<sup>0</sup>, 30<sup>0</sup>, 60<sup>0</sup>, 90<sup>0</sup> or 120<sup>0</sup>
- Glare Control: Choice of external glare control accessories are available. Please select them from the catalog ordering guide.

#### **Product Applications**

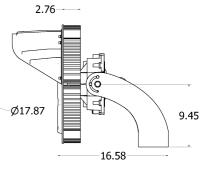
- Sports Stadium Lighting
- High Power Flood Lighting
- High Mast Lighting
- Very Narrow Flood Lighting
- Stay Cable Bridge Lighting
- Cold Environment Flood Lighting
- Vibration Resistant Flood Lighting



Fixture EPA: 2.40 sq. ft. Weight: 30 lbs.



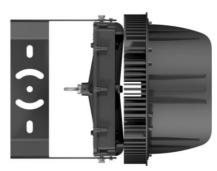
2.00 - -



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LED configuration shown for illustration purposes only.
Actual LED configuration may be different.





### **Electrical Components**

- LED light Engine: Designed and configured with SEOUL MJT5050 high power, high lumen, consistent CCT LEDs. These modules enable high quality standards and ensure warranty replacement. These LED Module are mounted directly to the highly conductive aluminum die-cast heat-sink. The LEDs operate below 85°C case temperature and deliver superior maintained illumination per LM80 L80 standards. Please refer to the LED Performance Data table for the targeted LED illumination life at 25°C to 50° C luminaire outside ambient temperature. The choice of color temperatures (3000K, 4000K and 5000K) are available to match your intended application.
- LED Drivers: UL/CSA recognized component to meet UL8750 & EN61347 (USR/CNR -E328335). Suitable for input power at 120-277VAC 50/60Hz. See Rated input power table for input voltage and current ratings.
- Power connection: A 6-foot long outdoor rated water and oil resistant cable shall be provided for electrical power and dimming data connections. Wiring is to be connected to the nearest outdoor rated IP66 junction box (By Others).

### Mounting

- Choice of two different mounting methods available (Please refer to the ordering guide)
- Adjustable Yoke mounting provides luminaire aiming adjustability for vertical or horizontal aiming.
- 2" Tenon Mount (SB-5) slip fitter adder to the yoke.

### **Dimming Controls**

Standard: Interface for 0 – 10V Dimming

#### Safety Compliance

- UL 1598 and CSA C22.2 NO. 250.0 standards.
- Suitable for indoor/outdoor wet (IP66) or damp location use
- Operating Temperature Range: -40 C° to 50 C°

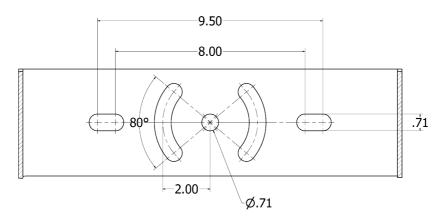
### Warranty

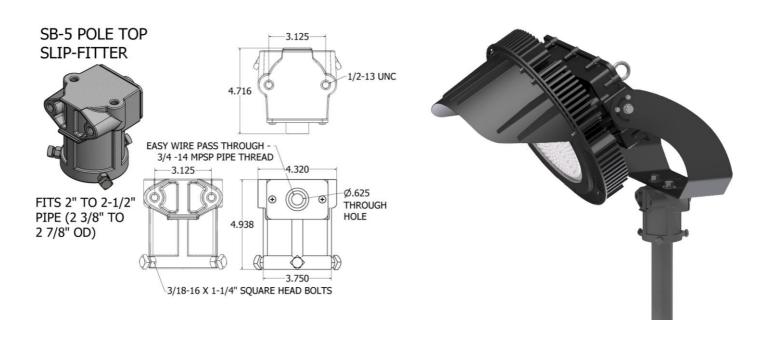
- Limited 5 years
- LED: LM80 60,500 hours at 50 C° ambient
- LED Driver: limited 5 years



## **Mounting Options**

Yoke Mounting Dimensions



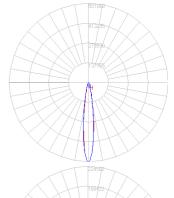




## **Product Specifications**

StarBeam LED sport lighter offers an all-star champion luminaire that is compatible with sports friendly lighting controls allowing complete dimming control of light levels. Our Technical team is available for support and integration for the latest lighting control systems.

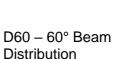
D15 - 15° Beam Distribution

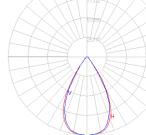


**Product Performance and Ratings** 

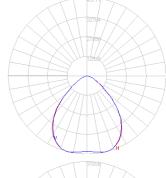
Model No →	SBL-450W	SBL-600W		
System Nominal Watts	450W	600W		
Delivered Lumen Output (5000K @ Tj 105C)				
15° Beam	47,400	62,994		
30° Beam	66,252	88,136		
60° Beam	66,952	89,066		
90° Beam	65,924	87,699		
120° Beam	67,737	90,113		
Input Voltage Options	100-277V OR 240-480V	100-277V OR 240-480V		
Ambient Temp. Range	-30 to 50 degree C	-30 to 50 degree C		
LED Color Temp. Range	3000K/4000K/5000K	3000K / 4000K / 5000K		
Light Beam Spread @ 50% of max. Cd.	15°/30°/60°/90°/ 120°	15°/30°/60°/90°/ 120°		
Housing/Enclosure IP Rating	IP66	IP66		
Physical Dimensions	17.87" Diameter X 10.35" Deep	17.87" Diameter X 10.35" Deep		
Equivalent Projected Area (EPA, SQ. FT)	2.4	2.4		
Weight	28.5 lb.	30 lb.		
Safety Certification	UL1598/CSA C22.2 #250; Outdoor Wet Location	UL1598/CSA C22.2 #250; Outdoor Wet Location		

D30 - 30° Beam Distribution





D90 - 90° Beam Distribution



D120 - 120° Beam Distribution

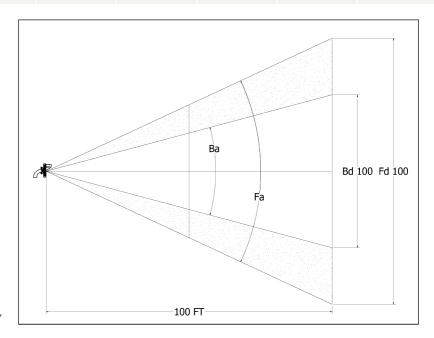


<sup>\*</sup> For 3000k, reduce lumens by 4% and for 4000K, reduce lumens by 2%

## **Photometric Application Data**

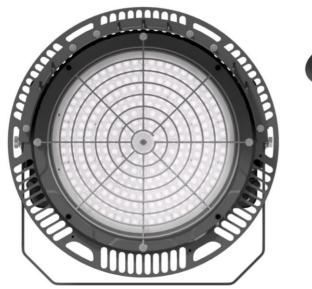
SBL 450W					
Performance Values	Optic D15	Optic D30	Optic D60	Optic D90	Optic D120
NEMA Classification	3HX3V	4HX4V	5HX5V	6HX6V	7HX7V
Maximum Center Candela Cd-max	414,644	168,804	77,508	32,858	23,795
Maximum Center Fc @100 ft - Fc100	41.46	16.88	7.75	3.29	2.38
Beam Angle @ 50% of Max. Fc - Ba degrees	14.5	31.7	58.5	88	114.6
Field Angle @ 10% of Max Fc - Fa degrees	31	62	80.5	128.2	156.5
Beam Diameter in feet @100 ft - Bd100	25.44	56.78	112.00	193.12	311.49
Field Diameter in feet @100 ft - Fd100	55.46	120.16	169.30	411.81	961.13
SBL 600W					
Performance Values	Optic D15	Optic D30	Optic D60	Optic D90	Optic D120
NEMA Classification	3HX3V	4HX4V	5HX5V	6HX6V	7HX7V
Maximum Center Candela Cd-max	551,060	224,562	103,110	43,711	31,655
Maximum Center Fc @100 ft - Fc100	55.11	22.46	10.31	4.37	3.17
Beam Angle @ 50% of Max. Fc - Ba degrees	14.5	31.7	58.5	88	114.6
Field Angle @ 10% of Max Fc - Fa degrees	31	62	80.5	128.2	156.5
Beam Diameter in feet @100 ft - Bd100	25.44	56.78	112.00	193.12	311.49
Field Diameter in feet @100 ft - Fd100	55.46	120.16	169.30	411.81	961.13

NOTE: SEE PHOTOMETRIC APPLICATION DATA FOR SPECIFIC BEAM INFORMATION





### **Accessories**



G - Wire Guard

V – Visor (with wire guard)



H - Hood

## **Ordering Guide**

		-	-[		-	-	
Model Number	LED Power (Watts)	CCT Color Temperature	Light Beam Distribution (FWHM)	Input voltage (VAC)	Lighting Controls	Mounting Options	Accessories
SBL	450	3K - 3000 K	D15 - 15° Beam	U - 120V-277V	ND - Non-Dimming	Y - Yoke	V - Standard Visor
	600	4K - 4000 K	D30 - 30° Beam	V1 - 347V	DM - 0-10 VDC Dimming Interface Only	SB5 - 2" Tenon Slipfitter	H - Hood
		5k-5000 K	D60 - 60° Beam	V2 - 480V			G - Wire Guard
		XK - Specify CCT or single Color*	D90 - 90° Beam				
			D120 - 120° Beam				

\*Requires minimum 50 quantity and will have a minimum 10-week lead-time.



	Revision Table			
Rev.	Description	Date		
-	Original Release	8/17/20		
Α	Removed SB2 and SB3 mounting options	10/23/24		

