

Product # _____ Type _____ Date _____
Project Name _____
Project Location _____ Prepared By _____

SBX LED Floodlight

Description

- The SBX is a professional lighting solution for sports field and high mast area lighting. With high lumen output, fewer fixtures are needed to achieve the same lighting effect, reducing purchase, installation, and commissioning costs.
- The professionally designed optics can target specific areas, minimizing glare and maintaining uniformity.
- The housing is made from low-copper die-cast aluminum. The yoke is made of ZAM/SPCC steel. The optic is made from high-transmittance PC material.
- The LED chips are equipped with high-level lightning protection.
- The installation angle can be infinitely adjusted through a rotatable mechanism.
- Supports standard yoke installation as well as horizontal and vertical clamp or tenon mount installations.

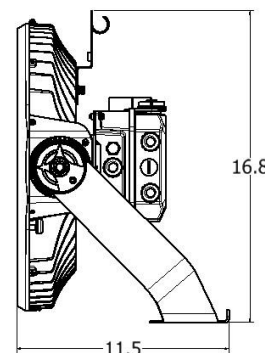
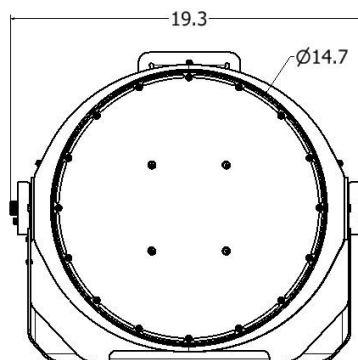
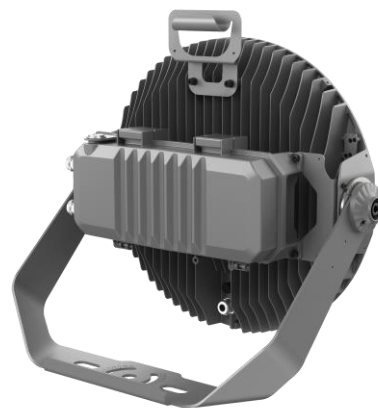
Optical System

- Precisely designed modular TIR optic to direct light where it is needed, reducing glare and spill light.
- Choice of optical beam distributions - 12°, 17°, 22°, 30°, 45°, or 60°.
- Glare Control: Optional visor available

Product Applications

- Sports Stadium Lighting
- Very Narrow Flood Lighting
- High Power Flood Lighting
- Stay Cable Bridge Lighting
- High Mast Lighting

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



EPA: 1.9 ft²
Weight: 29 lbs.

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Electrical Components

- **LED light Engine:** Designed and configured with either 3737 or 5050, 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. Please refer to the LED Performance Data table for the targeted LED illumination life at 25°C to 50° C luminaire outside ambient temperature. Color temperature of 5000K standard with optional 4000K. Color Rendering Index of Ra70 standard with optional Ra80.
- **LED Drivers:** UL/CSA recognized component to meet UL8750 & EN61347 (USR/CNR -E328335). Suitable for input power at 120-277VAC or 200-480VAC 50/60Hz. See Rated input power table for input voltage and current ratings.
- **Power connection:** Power and dimming connections are made into a terminal block inside the driver enclosure using provided cord grip or knock-outs.

Mounting

- Choice of 3 different mounting options:
- Adjustable Yoke mounting provides luminaire aiming adjustability for vertical or horizontal aiming.
- Slip Fitter
- Quick Clamp Adapter

Dimming Controls

- Standard: Interface for 0 – 10V Dimming

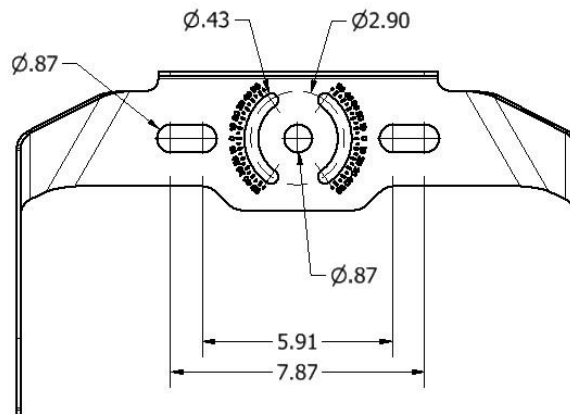
Safety Compliance

- UL/DLC listed.
- Suitable for indoor/outdoor wet (IP66) or damp location use.
- IK08 impact resistance
- Category of Corrosion C4(ISO 9223:2012)
- Operating Temperature Range: -30 C° to 45 C°

Warranty

- Limited 5 years
- LED: >67,000hrs L90B10 @ 25°C ambient
- LED Driver: limited 5 years

Yoke Mounting
Dimensions



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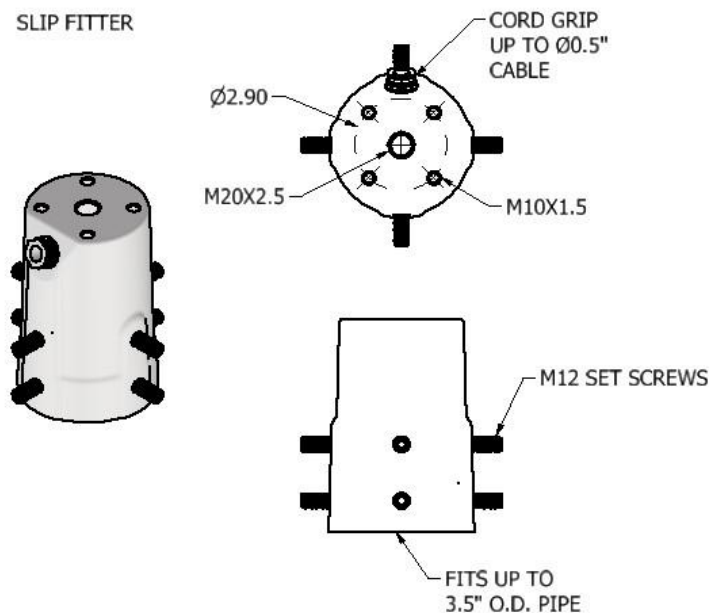


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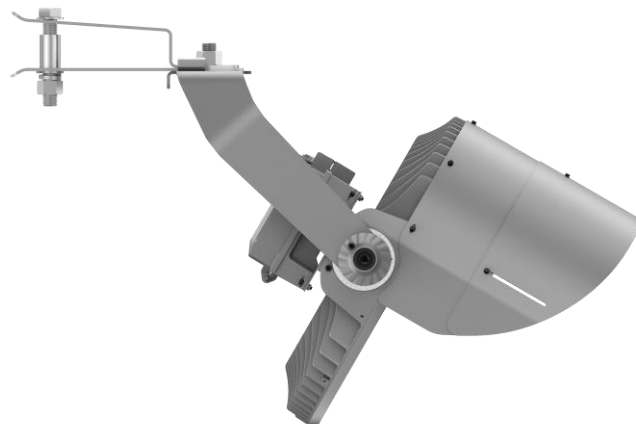
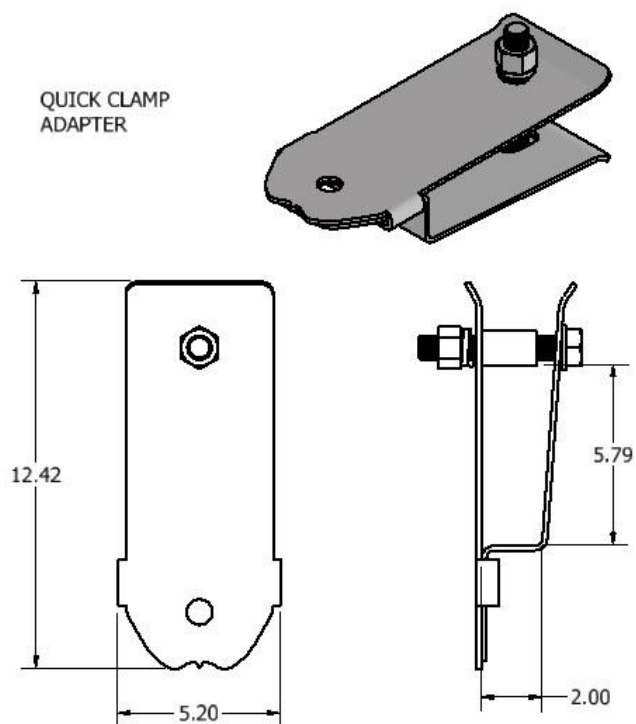
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Other Mounting Options

SLIP FITTER



QUICK CLAMP ADAPTER



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SBX LED Floodlight

Product Specifications

Product Performance and Ratings

Model No →	SBX-400	SBX-500	SBX-600
Nominal Wattage	400W	500W	600W
Delivered Lumen Output (5000K, 70Ra)			
12° Beam	68,794	83,864	97,858
17° Beam	68,818	83,893	97,892
22° Beam	74,054	90,276	105,340
30° Beam	72,883	88,849	103,674
45° Beam	70,768	86,271	100,666
60° Beam	72,936	88,914	103,750
Input Voltage Options	100-277V OR 240-480V		
Ambient Temp. Range	-30 to 45 °C		
LED Color Temp. Range	4000K / 5000K		
Light Beam Spread @ 50% of max. Cd.	12° / 17° / 22° / 30° / 45° / 60°		
Housing/Enclosure Rating	IP66 / IK08		
Physical Dimensions	16.77" H X 19.29" W X 11.46" D		
Equivalent Projected Area (EPA, SQ. FT)	1.9		
Weight	29 lbs		
Safety Certification	UL / DLC		

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Photometric Application Data

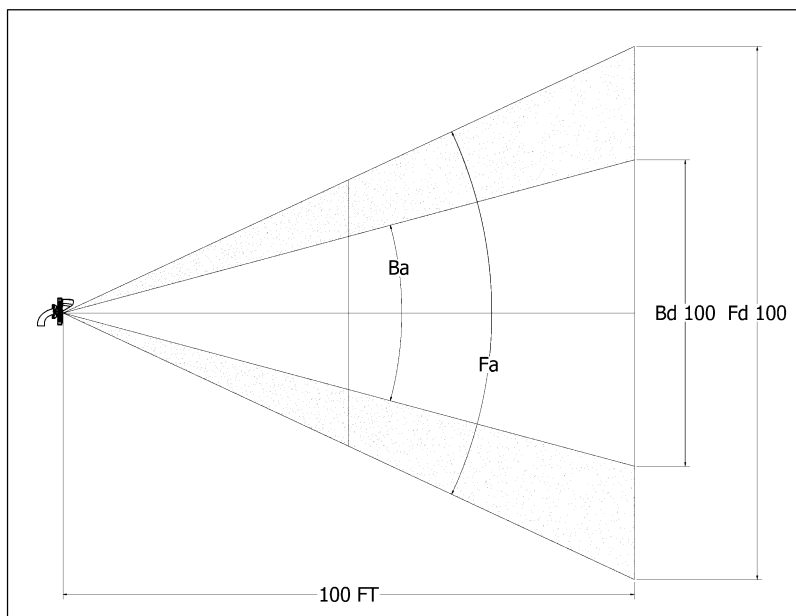
SBX 600W

Performance Values	D12	D17	D22	D30	D45	D60
NEMA Classification	2HX2V	3HX3V	5HX5V	4HX4V	5HX5V	5HX5V
Maximum Center Candela Cd-max	913,706	755,180	371,334	334,359	158,366	109,147
Maximum Center Fc @100 ft - Fc100	91.37	75.52	37.13	33.44	15.84	10.91
Beam Angle @ 50% of Max. Fc - Ba degrees	11.7	17.5	21.7	28	44.4	55.6
Field Angle @ 10% of Max Fc - Fa degrees	24.8	33.9	52.1	53.1	74.0	87.1
Beam Diameter in feet @100 ft - Bd100	20.49	30.78	38.33	49.86	81.61	105.44
Field Diameter in feet @100 ft - Fd100	43.97	60.95	97.76	99.93	150.70	190.11

Candela Multiplier

600W	1.000
500W	0.857
400W	0.703

NOTE: SEE PHOTOMETRIC APPLICATION DATA FOR SPECIFIC BEAM INFORMATION



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Accessories



V – Visor



A – Aiming Device

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Ordering Guide

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Model Number	LED Power (Watts)	CCT Color Temperature	Light Beam Distribution (FWHM)	Input voltage (VAC)	Lighting Controls	Mounting Options	Accessories
SBX	400	4K - 4000 K	D12 - 12° Beam	U - 120V-277V	ND - Non-Dimming	Y - Yoke	V - Visor
	500	5K - 5000 K	D17 - 17° Beam	V1 - 240V-480V	DM - 0-10 VDC Dimming	SF - Slip Fitter	A - Aiming Device
	600		D22 - 22° Beam			QC - Quick Clamp	
			D30 - 30° Beam				
			D45 - 45° Beam				
			D60 - 60° Beam				

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

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Revision Table

Rev.	Description	Date
-	Original Release	8/26/26

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