

XBAL, SBAM and SBAS LED Flood Bullets

Leading Specification Features

Crossover®
LED LIGHTING TECHNOLOGY



Marketing Positioning Statement

LSI's LED Bullets are available in 3 sizes and a choice of optics to meet your requirements. Mountable on grade, in trees or on structures, XBAL large flood bullets are available in FL 40°, NFL 25° and SP 10° distributions while SBAS small flood and SBAM medium flood bullets distribute light in a tightly controlled 4H x 4V flood and 3H x 3V spot distribution, respectively. They are designed to effectively accent landscape and architectural features, or illuminate flags, sculptures or signage. LED bullets are ruggedly constructed one-piece, die-cast aluminum with silicon gaskets resulting in a robust, well-sealed luminaire. Utilizing a variety of shield designs and optics, LED bullets provide precise uplight and downlight light control. Designed to perform, LSI LED bullets provide the ultimate in creativity and control in Landscape & Architectural lighting, and right at your fingertips.



Leading Specification Features

Low Total Cost of Ownership - Quick Payback

Annual Energy & Maintenance Savings	\$814 savings for (15) SBAS fixtures replacing (15) 50W PAR20 HID fixtures
	\$958 savings for (15) SBAM fixtures replacing (15) 75W PAR30 HID fixtures
	\$1,464 savings for (15) XBAL fixtures replacing (15) 150W PAR38 HID fixtures

Payback Analysis	ROI of 2.3 years for SBAS example
	ROI of 2.2 years for SBAM example
	ROI of 2.6 years for XBAL example
	Based upon 12 hour daily operation at \$.10kwh

Leading Selection of Light Output Options

Lumen Output	SBAM – 1140 lumens
	XBAL - Range of lumen outputs available by varying distribution patterns, drive currents and color temperature - Available lumen range of 1263 to 2646

LIGHT OUTPUT - XBAL										
		SP10			Lumens (Nominal) NFL25			FL40		
		NEMA Type	Lumens	LER	NEMA Type	Lumens	LER	NEMA Type	Lumens	Watts (Nominal)
Moon White	SS	3H x 3V	2129	101	4H x 3V	1592	76	4H x 4V	1636	21
	HO	3H x 2V	2612	93	4H x 3V	1981	70	4H x 4V	2396	28
Cool White	SS	3H x 3V	1936	94	4H x 4V	1814	89	4H x 4V	1773	21
	HO	3H x 3V	2646	97	4H x 4V	2253	82	4H x 4V	2287	28
Neutral White	SS	3H x 3V	1823	86	4H x 3V	1367	66	4H x 4V	1613	21
	HO	3H x 3V	2185	79	4H x 3V	1720	62	4H x 4V	2001	28
Warm White	SS	3H x 3V	1631	78	4H x 3V	1263	60	4H x 4V	1435	21
	HO	3H x 3V	1984	71	4H x 3V	1589	57	4H x 4V	1862	28

LED Chips are frequently updated therefore values may increase.

LIGHT OUTPUT - SBAM				
		Lumens	Watts	LPW
Cool White	SBAM	1140	15	74

LED Chips are frequently updated therefore values may increase.

LIGHT OUTPUT - SBAS				
		Lumens	Watts	LPW
Cool White	SBAS	778	11	69

LED Chips are frequently updated therefore values may increase.

Superior Control Technology	Variety of shield designs & optics - provide precise upright and downlight light control
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Distribution Options	SBAS – delivers a 3H x 3V spot distribution
	SBAM – delivers a 4H x 4V flood distribution
	XBAL – choice of FL40°, NFL25° or SP10° high performance distributions
	SBAS/SBAM – LED modules and lenses strategically mounted to distribute light in a tightly controlled beam pattern
	XBAL – LED module strategically mounted to interchangeable optical panels
	Puts light where needed and in the most efficient way possible

Drive Currents	SBAS – Super Saver (SS)
	SBAM – High Output (HO)
	XBAL - Choice of Super Saver (SS) or High Output (HO)

Color Rendering Index	Nominal CRI of 70 for 6000K or 5000K, 75 for 4700K and 80 for 4000K and 3500K facilitate recognition of specific colors of various objects to meet industry standards
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Color Temperature	SBAS/SBAM: Neutral white - 4700K
	XBAL: Moon white - 6000K for tree lighting, Cool white - 5000K, Neutral white - 4000K or Warm white - 3500K

Temperature Range	XBAL: -40°C to 40°C (-40°F to +104°F)
	SBAS/SBAM: -30° to +40°C (-22°F to +104°F)
	Suitable for a wide range of ambient temperatures

Input Voltage	Universal voltage (UE) 120V thru 277V
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Leading Specification Features

Speed & Ease of Installation

Mounting

SBAS/SBAM – ½” NPSM mounting arm standard

Mounting arm may be threaded into hubs in tree surface mounts, spikes, junction boxes or CFH style ballast enclosures

Adjustable mounting arm provides angle markings for accurate and easy aiming

XBAL - ½” NPSM mounting arm standard

Mounting arm may be threaded into hubs in tree surface mounts, spikes, junction boxes or CFH composite J-box

Mounting arm provides 200° + vertical range of motion to achieve desired aiming angles

360° horizontal range shields are also adjustable for further light control

Lightweight

SBAS - 3 pounds
SBAM – 5 pounds

XBAL – 7 pounds

Aids in installation time

Maintenance-Free

Once installed LED Flood Bullets are virtually maintenance free

Exceptional Reliability in an LED Landscape/Architectural Fixture

Housing

SBAS/SBAM – precision designed die-cast aluminum housing

Stainless steel hardware

Tempered glass lens and silicon gaskets

XBAL - One-piece die-cast aluminum, 360 alloy, low copper housing

Multi-radius round shape with .125” wall thickness

One-piece silicone gasket seals shield to housing

Superior Listings

SBAS/SBAM listed to UL8750

XBAL listed to UL1598, UL8750 and other U.S. and International safety standards

Suitable for wet locations

Finish

Finished with polyester powder coat finish

Provides durable protection from environmental conditions, corrosion and the elements

Resists cracking and peeling

Long-Life

SBAM/SBAS – Minimum 50,000 hours depending upon ambient temperature of the installation location

XBAL - Minimum 60,000 hours to 100,000 hours depending upon ambient temperature of installation location

Once installed LED bullets are virtually maintenance free

Warranty

Limited 5-year warranty

