

XSB Sterling® LED Area Lighting



Marketing Positioning Statement

The XSB LED Sterling high-lumen area light's one-piece die-cast aluminum housing contains patent pending angled optical modules providing exceptionally wide throw light distribution for unrivaled pole spacing. Fewer lighting assemblies results in lower installation costs for quicker payback. The XSB is the ideal replacement for 750W or 1000W HID with as little as 240W LED.

Leading Specification Features

- ❑ SmartTec™ Control Technology – “Industry First”
- ❑ Low Total Cost of Ownership
- ❑ Outstanding Uniformity & Visual Comfort
- ❑ Leading Selection of Light Output Options
- ❑ Unparalleled Speed & Ease of Installation
- ❑ Exceptional Reliability in an LED Area Light
- ❑ Enhances Architectural Styling of any Site



SmartTec™ Control Technology – Industry First

Thermal Management

LSI proprietary SmartTec heat dissipation system
Sensor in driver initiates temperature correction when ambient temperature exceeds rated temperature

Optional Integral Motion Sensor

Passive infrared motion sensor activates switching of luminaire light levels
High light level activated and increased to full bright upon detection of motion
Low light level (30% maximum drive current) is activated when target zone is absent of motion activity for ~ 2 minutes
Sensor has a detection cone of approximately 45°

Dimming (DIM)

Optional 0-10V Dimming enabled with controls by others

Bi-Level Switching (BLS)

Optional Low light level reduced to 30% of maximum drive current via 120V-277V control by others

Optional LSI wireless control and information systems

Low Total Cost of Ownership – Quick Payback

Annual Energy & Maintenance Savings

\$5,587 savings for (20) XSB Super Saver (SS) fixtures replacing (20) 750W MH fixtures
\$7,225 savings for (20) XSB High Output (HO) fixtures replacing (20) 1000W MH fixtures
\$5,684 savings for (20) XSB Very High Output (VHO) fixtures replacing (20) 1000W MH fixtures

Payback Analysis

ROI* of 4.6 years for SS replacement example
ROI* of 3.5 years for HO replacement example
ROI* of 4.5 years for VHO replacement example

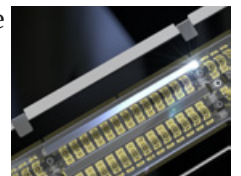
Based upon 12 hour daily operation at \$.10kwh

*ROI can be improved significantly through usage of LSI controls

Outstanding Uniformity & Visual Comfort

Industry Unique Zonal Optics

Patented and patent pending angled optical assemblies provide exceptionally wide throw for unrivaled pole spacing
Lens mounted perpendicular to LED light output and are angled to produce widest distribution with highest efficacy possible



Clear Tempered Optical Grade Glass Lens

Sealed to die-cast aluminum optical assemblies creating a super-tight IP67 protection

5 times more impact resistant than standard glass
Won't discolor, craze or cloud up like acrylic lenses
Cleans easily

Lumen Output

Wide range of lumen outputs available by varying the reflector types, drive currents and LED color temperature
Available lumen range of 11,400 to 42,200
Exceptional uniformity with full cutoff creates a brighter environment at lower light levels

Integral backlight cutoff minimizes light trespass

House side shield available for even more backlight cutoff

		Lumens (Nominal)						Watts (Nominal)		
		Type 5	Type 5X	Type AIX	Type FT	Type FTX	Type FTAX	5/5X/AIX	FT	FTX/FTAX
Cool White	SS	22600	25400	-	13700	24600	-	240	181	285
	HO	26400	31000	28800	16900	29200	29000	312	233	366
	VHO	-	42200	41300	-	-	35700	491	-	420
Neutral White	SS	18200	20700	-	11400	20900	-	240	181	285
	HO	22300	26100	24800	14000	24300	24600	312	233	366
	VHO	-	35200	35300	-	-	33600	491	-	420

LED Chips are frequently updated therefore values may increase.

Leading Selection of Light Output Options

Multitude of Distribution Patterns

Available in wide throw (Type 5 and Type FT) and extended wide throw (Type 5X, AIX, FTX, FTAX) distributions. FT-L, FT-R, FTX-L, FTX-R, FTAX-L and FTAX-R allow for D180° mounting configurations with factory set optics for front row automotive applications.

Application staff available to determine best distribution pattern
LM79 & LM80 reports available

Range of 168 thru 302 LEDs

181, 233, 240, 285, 312, 366, 420 or 491 watt choice
240 or 285 watt SS are ideal replacement for 750W MH
312 or 366 HO, 418 or 491 VHO are ideal replacement for 1000W MH

Color Rendering Index

CRI of 70 facilitates recognition of specific colors of various objects to meet industry standards

Color Temperature

Cool white - 5000°K provides bright and pleasing area lighting at reduced foot candle levels
Neutral white – 4000°K for a warmer color temperature

Temperature Range

-40°C to +50°C (-40°F to 122°F)
Suitable for use in a wide range of ambient temperatures

Three Drive Currents

SS, HO and VHO available
Expands available solutions for customer specific applications
SS is the most energy efficient, while higher drive currents can be utilized to drive for greater lumen output

Input Voltage

Universal voltage 120V thru 277V (50/60hz input): 347V-480V also available

Unparalleled Speed & Ease of Installation

Mounting

Mounting arm wiring access panel with safety lanyard utilizes a tool-less thumbscrew fastener
Die-cast aluminum gasketed mounting arm mounts to round or square pole
No round pole plate required
Standard fixture arm allows for 90° and 120° mounting configurations

Maintenance-Free

Once installed, the XSB is virtually maintenance free

Exceptional Reliability in an LED Area Light

Environmentally Responsible

With exceptional "green" technology, XSB is RoHS compliant
Greater than 80% recyclable by weight

Housing

One-piece die-cast aluminum housing contains four gasketed die-cast aluminum optical assemblies
Self-cleaning, maximum heat dissipation vertically oriented structural ribs
All hardware is stainless steel or electro-zinc plated steel
Drivers easily accessible by removing tethered access cover

Weather-tight	Fully enclosed weather tight wet-location housing Optical unit rated IP67 Fixture rated IP65
Gasketing	Luminaire optical assembly permanently sealed with robotically applied polyurethane All external seals for additional fasteners, options, etc. are EPDM or silicone rubber for robustness to pressure and temperature changes and environmental, aging and UV resistance Redundant fail-safe seals used in most areas for additional luminaire protection
Finish	LSI's DuraGrip [®] polyester powder coat - resists corrosion and is scratch and ding resistant Withstands extreme weather changes without cracking or peeling. Exhibits excellent durability and resistance to ultraviolet rays
Long-Life	Minimum 60,000 hours to 100,000 hours depending upon ambient temperature of installation location Up to 5X the lamp life expectancy of HID Complies with ANSI C136.31-2010 American National Standard for Roadway Lighting Equipment – Luminaire meets Vibration 3G Requirements Once installed, virtually maintenance free
Protection	IP67 on sealed optical assembly provides total dust ingress protection, temporary liquid submersion protection Driver components encased in potting material for moisture resistance IP65 rated fixture
Surge Protector	Two-stage surge protection including separate surge protection built into electronic driver Meets Location Category C Low Prevents damage to fixture due to unexpected "surge" or "swell" in AC Line Voltage
Pressure Stabilizing Vent/Breather	Equalizes pressure in fixture optical unit preventing pressure buildup due to ambient temperature changes, protecting gaskets and seals over the life of the fixture
Warranty	Limited 5-year warranty
Options/Accessories	Dimming (DIM) and bi-level switching (BLS) Integral motion sensor LSI integrated wireless control and information system House side shield Polycarbonate shield Twistlock photoelectric control receptacle
DLC	Selected versions of this product are on the DLC Qualified Products List (QPL). Consult the LSI website or the DLC QPL website at www.designlights.org for specific products listed.

Enhances Architectural Styling of any Site

Contemporary aesthetic design incorporating industry's first Zonal Optics with angled optical modules

Industry Unique Aluminum Housing Design



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