XGBM LED Area Lighting

Crossover®
GENERATION 3

Marketing Positioning Statement

XGBM LED Area Lighting couples industry leading LED Crossover technology with the conventional Greenbriar form. Incorporating top access for easy installation and driver access, the XGBM LW replaces up to 400W HID with 140W LED, and the XGBM HO LED replaces up to 1000W HID with 300W LED. Exceptional high-brightness LEDs result in both higher light levels and significant energy savings.

Leading Specification Features

▣ SmartTec™ Control Technology – "Industry First"

▣ Low Total Cost of Ownership - Quick Payback

▣ Outstanding Uniformity & Visual Comfort

▣ Leading Selection of Light Output Options

▣ Unparalleled Speed & Ease of Installation

▣ Exceptional Reliability in an LED Area Light

▣ Provides Conventional Styling for any Site

LSi **Industries™**
American Innovation Through Technology
A SmartVision® for the Future

SmartTec Control Technology - Industry First

Thermal Management

LSI proprietary SmartTec heat dissipation system

Fixture temperature lowered automatically when needed in imperceptible increments until safe operating temperature is reached

Finless heat sink design to more effectively dissipate heat over time

Optional Integral Motion (IMS)

Dims at 30% of maximum drive current when target zone is absent of motion activity for ~ 2 minutes

Bi-Level Switching (BLS)

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

Dimming (DIM)

Optional 0-10V Dimming enabled with controls by others

Optional LSI wireless control and information systems

Low Total Cost of Ownership – Quick Payback

Annual Energy & Maintenance Savings

$3,310 savings for (20) XGBM LED LW fixtures replacing (20) 400W MH fixtures

$6,052 savings for (20) XGBM LED SS fixtures replacing (20) 750W MH fixtures

$7,322 savings for (20) XGBM LED HO fixtures replacing (20) 1000W MH fixtures

Payback Analysis

ROI of 4.4 years for XGBM LED LW example above
ROI of 2.75 years for XGBM LED SS example above
ROI of 2.30 years for XGBM LED HO example above

Outstanding Uniformity & Visual Comfort

Clear Flat Optical Grade Tempered Glass Lens

Superior performance & value through sealed lens, precision reflectors and industry's best LEDs

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, LED quantities and drive currents

Wide lumen range of 11,290 to 31,810 available, providing a choice of lumen outputs for the customer's specific requirements

Creates a brighter environment at lower light levels

LIGHT OUTPUT - XGBM

		Lumens (Nominal)				Watts (Nominal)
		Type 3	Type 5	Type FT	Type FTA	
Cool White	LW	14080	13840	15020	16560	140
	SS	20180	18040	20700	23030	187
	HO	26750	25460	29070	31810	300
Neutral White	LW	11450	11290	12220	13470	136
	SS	16390	15170	17230	18750	188
	HO	22240	20550	23510	25410	288

Leading Selection of Light Output Options

Multitude of Distribution Patterns

Choice of type 3, 5, FT and FTA
  The optical unit can be field rotatable in 90° increments

By increasing drive currents from LW to SS or HO, light distribution patterns are enhanced with greater lumen output
Exceptional uniformity with full cutoff creates bright environment at lower light levels
Improved backlight cutoff minimizes light trespass
House side shield available for even more backlight cutoff
Application staff available to determine best distribution pattern
LM79 & LM80 reports available

136, 140, 187, 188, 288 or 300 watt choice
140W (LW) is ideal replacement for 400W MH
187W (SS) is ideal replacement for 750W MH
300W (HO) is 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 - 5250°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
Life expectation based on rated maximum, not on nighttime average

Three Drive Currents

Low Watt, Super Saver and High Output available
Expands available solutions for customer specific applications
LW and SS are the most energy efficient, while higher drive current can be utilized to drive for greater lumen output

Input Voltage

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

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Unparalleled Speed & Ease of Installation

Mounting

Tethered top-access cover provides ease of installation and allows for easy driver access
Four captive stainless-steel fasteners secure the gasketed top-access cover to the housing
Use with standard 5" 2-hole pattern steel round, square and round tapered poles (order round pole plates separately)

Maintenance-Free

Once installed, the XGBM is virtually maintenance free

Exceptional Reliability in an LED Area Light

American Made
All products designed and manufactured in the U.S.

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

American Innovation
American Made

Housing
Superior durability in a die-formed aluminum square housing
Excellent surface finishing and dimensional consistency
Optional color coordinated decals available to enhance site color scheme

Weather-tight
Fully enclosed weather tight wet-location housing contains prewired driver field connections
Optical unit rated IP67

Gasketing
Luminaire optical assembly permanently sealed with robotically applied polyurethane
All external seals for 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
Up to 100,000 hours of expected life equates to 11.4 years burning 24/7
5X the lamp life expectancy of HID
Once installed, virtually maintenance free

Protection
IP67 on sealed optical assembly provides total dust ingress protection, temporary liquid submersion protection

Surge Protector
Two-stage surge protection including separate surge protection built into electronic driver
Meets Scenario 1, 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

Button-Type Photocell	Dimming and bi-level switching
House side shield	Integral motion sensor
Round pole and wall mount plate	LSI integrated wireless control and information system
Terminal block for ease of wiring	
Decorative radius arm and upsweep bracket	

Provides Conventional Styling for any Site

Attractive/clean styling
Performance, energy efficiency and maintenance benefits of LED in a conventional housing design

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