

High-Performance LED Sports Lighting



CourtBlade (XARL)
LED Sports Lighting

lsi-industries.com



CourtBlade
(XARL)
LED Sports
Lighting

High Performance Sports Lighting Experience, Service and Innovation

With more than 35 years experience, focused exclusively on sports lighting, LSI Industries is recognized as one of the most experienced, respected and customer driven sports lighting suppliers in the industry.

As a result of highly personalized service, we can offer a complete line of innovative, high-performance, energy-efficient lighting solutions for indoor/outdoor tennis courts and other selected specialty sports applications. LSI Industries delivers the best lighting consultation expertise. We offer the right lighting solution for your sports venue to satisfy the player, spectator, community and environmental requirements.



LSI CourtBlade (XARL) LED Sports Lighting features

LSI's CourtBlade LED sports light is a game changer for court lighting applications. The low profile CourtBlade utilizes high performance LEDs and precise optics to produce superior levels of illumination and uniformity. Compared with typical HID court lighting systems, the energy load is reduced by 50%.

- High Performance, Full Cutoff LED
- Aerodynamic, Low-Profile Shape
- 50% Energy Reduction vs. 1000W Metal Halide
- 60,000 - 100,000 Hr Expected Life
- Direct Retrofit Mounting of LSI Courtsider® and Aerosystem® fixtures
- Matching Poles & Brackets Available
- Lightweight for Easy Installation (55 lbs.)
- Consistent lumen output over fixture life
- Instant On and Dimmable
- Optional wireless control available
- 5-Year Warranty
- Surge protection built-in
- Photometric Testing (3rd Party Tested)
- Glass lens over LED nodes vs Acrylic



Micro-Louver Optical System

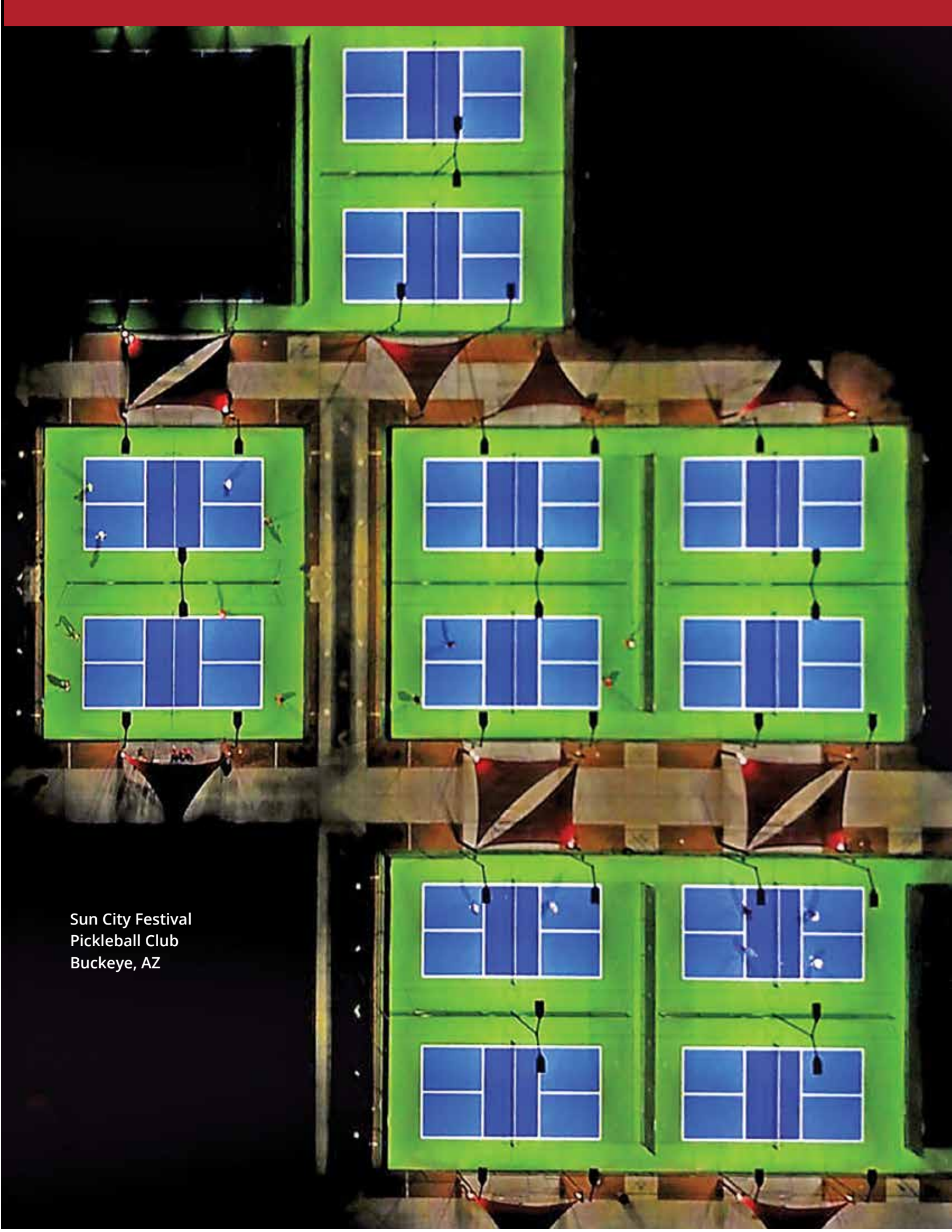


The CourtBlade fixture's innovative Micro-Louver optical system provides a controlled forward throw distribution with sharp backside cutoff.

The 3D product illustration (above) shows an enlarged section of 15 of the 266 total mid-power LED chips of the optical system. The system also contains a secondary highly specular anodized aluminum reflector for each LED, and a clear flat glass lens. The reflector projects light forward and laterally to illuminate the court surface and the vertical ball travel area above the court.

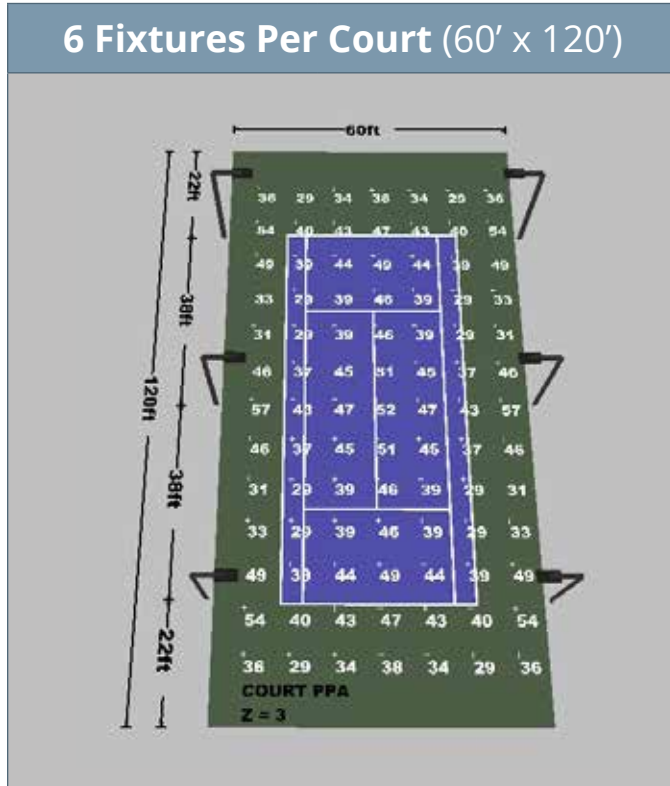
The reflector design also reduces direct glare from the fixture at normal viewing angles. The photometric performance is verified by a third party, independent testing laboratory (ITL Boulder).



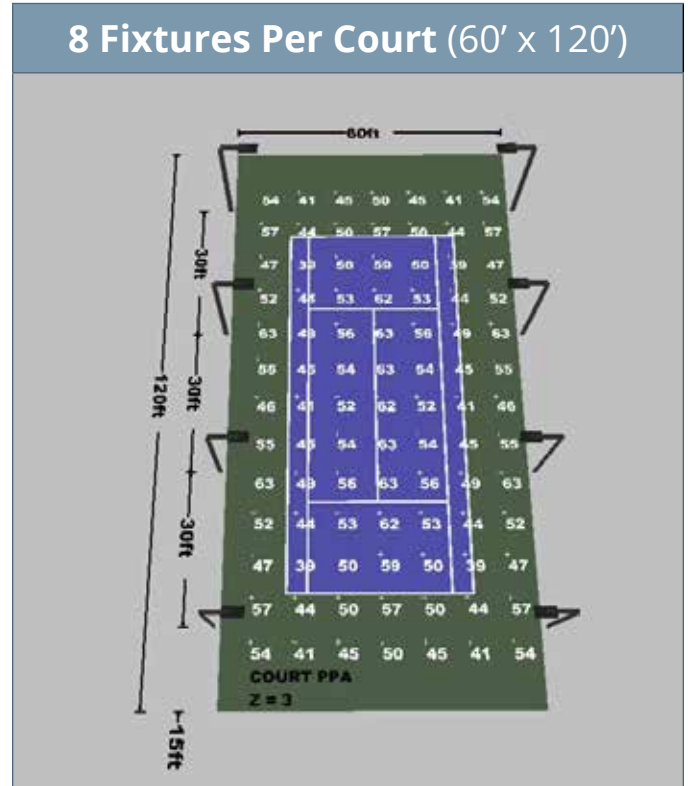


Sun City Festival
Pickleball Club
Buckeye, AZ

Standard Layouts



• 528 Watts	• 22' Mounting Height
• 58,977 Initial Lumens	• 0.9 Light Loss Factor (LLF)
Primary Playing Area (PPA) - 48' x 98'	
Average Maintained - 40.48 @ 3' above grade	
PPA Max : Min - 1.97	
PPA Coefficient of Variation (CV) - 0.19	
PPA Uniformity Gradient (UG) - 1.50	



• 528 Watts	• 22' Mounting Height
• 58,977 Initial Lumens	• 0.9 Light Loss Factor (LLF)
Primary Playing Area (PPA) - 48' x 98'	
Average Maintained - 50.99 @ 3' above grade	
PPA Max : Min - 1.62	
PPA Coefficient of Variation (CV) - 0.13	
PPA Uniformity Gradient (UG) - 1.32	

Configurations



LED Create-A-Court Configurator

Use the design configurator to locate the appropriate LED lighting design(s) for your court application based upon the selection of design parameters. The lighting design(s) are offered in the PDF file format for easy web viewing, transfer and printability. To access the Create-A-Court configurator, please scan the QR Code or visit:

www.lsi-industries.com/products/create-a-court-configurator.aspx



LSI CourtBlade (XARL) Specifications



DOE LIGHTING FACTS

Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program.

Visit www.lightingfacts.com for specific catalog strings.

LIGHT OUTPUT - XARL			
		Lumens (Nominal) Type FT	Watts (Nominal)
Cool White	HO	58977 ¹	528
Neutral White	HO	56960 ²	528

LED Chips are frequently updated therefore values may increase.

1 - Verified by ITL Report ITL 86921 (Available upon request)

2 - Verified by ITL Report ITL 86920 (Available upon request)

- **SMARTTEC™** – LSI drivers feature integral sensor which reduces drive current, when ambient temperatures exceed rated temperature.
- **ENERGY SAVING CONTROL OPTION** – DIM - 0-10 volt dimming enabled with controls by others.
- **EXPECTED LIFE** – Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.
- **LEDS** – Select high-brightness LEDs in Cool White (5000K), or Neutral White (4000K) color temperature, 70 CRI.
- **DISTRIBUTION/PERFORMANCE** – High performance, multi-faceted, reflector provides uniform Forward Throw (FT) distribution with sharp backlight cutoff. Photometric data is tested in accordance with IESNA guidelines
- **HOUSING** – One-piece, die-formed aluminum housing contains factory prewired driver in a gasketed, weather-resistant wiring compartment. Hinged wiring access door (with safety lanyard) located underneath. Fixture is IP65 rated.
- **OPTICAL UNIT** – Clear tempered optical-grade flat glass lens permanently sealed to weathertight aluminum optic frame (includes pressure-stabilizing breather).
- **MOUNTING** – The fixture is furnished with installed stainless steel, threaded mounting studs protruding from the rear of the housing. Stainless steel nuts and washers used to secure the fixture to the bracket are also included.
- **ELECTRICAL** – Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277VAC (50/60Hz input) and 347-480 VAC.
- **DRIVER** – Available in HO (High Output) drive current. Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can be easily accessed.
- **OPERATING TEMPERATURE** – -40°C to +50°C (-40°F to +122°F)
- **FINISH** – Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling.
- **WARRANTY** – LSI LED fixtures carry a limited 5-year warranty.
- **PHOTOMETRICS** – Please visit our web site at www.lsi-industries.com for detailed photometric data.
- **SHIPPING WEIGHT** – 55 lbs./24.9Kg (in carton)
- **LISTING** – UL listed to US and international safety standards. Suitable for wet locations

US patent D726,947 7,828,456 8,002,428 8,177,386 8,434,893 8,567,983 and US & Int'l. patents pending.

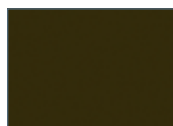
Finishes



Black



Green



Bronze



Platinum Plus



White



Graphite







Metallic Silver

All LED CourtBlade (XARL) components are finished with DuraGrip®, Courtsider Sports Lighting's revolutionary, superior, baked-on powder finishing process that produces an exceptionally attractive appearance. DuraGrip polyester finish withstands extreme weather changes without cracking or peeling. Finish is guaranteed for a full five years.

Ordering Information

Prefix	Distribution	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Options
XARL	FT Forward Throw	LED	HO High Output	CW Cool White (5000K) NW Neutral White (4000K)	UE Universal Voltage (120-277V) 347-480 Universal Voltage (347-480V)	BLK - Black GRN - Green BRZ - Bronze PLP - Platinum Plus WHT - White GPT - Graphite MSV - Metallic Silver	DIM 0-10V Dimming (from External Signal)

Typical Order Example: **XARL FT LED HO CW UE WHT**

Luminaire EPA Chart XARL (fixture & bracket)		
	Single	1.2
	D180°	2.4
	D70°	1.8
	Q90°	4.3

NOTE: House Side Shield adds to fixture EPA. Consult Factory.

Accessory Ordering Information	
Description	Order Number
XLCL-FT-HSS RM - External House Side Shield (Black only - rear mounted)	610098BLK ¹
FK120 - Single Fusing (120V)	FK120 ²
FK277 - Single Fusing (277V)	FK277 ²
DFK208,240 - Double Fusing (208V, 240V)	DFK208,240 ²
DFK480 Double Fusing (480V)	DFK480 ²
FK347 Single Fusing (347V)	FK347 ²

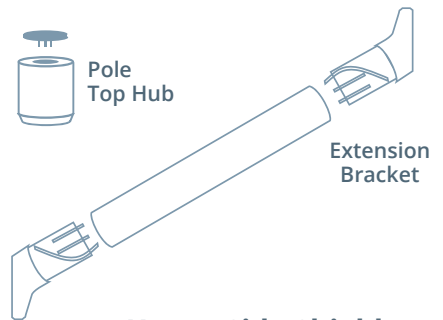
Accessories are field installed.

Electrical Requirements	
120V	4.6 amps
208V	2.6 amps
240V	2.3 amps
277V	2.0 amps
347V	1.6 amps
480V	1.2 amps

Bracket Ordering Information				
Bracket Designation	Bracket Type	Bracket Configuration	Length	Bracket Finish
BRKT - Extension Bracket ³	BO - Bolt On	S - Single	38"	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus GRN - Green WHT - White
BRKT - Pole Top Hub ^{4,5}	4ESF - External Slipfitter	S - Single D180 - Double D70 - Double D90 - Double Q90 - Quad Q70 - Quad	*	

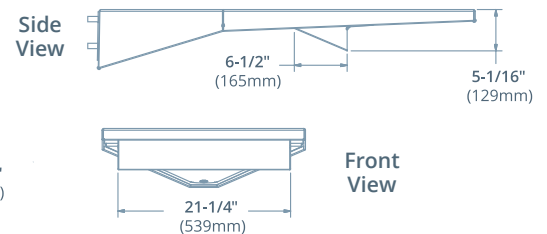
FOOTNOTES:

- 1 - House Side Shields add to fixture EPA. Consult factory.
- 2 - Fusing must be located in hand hole of pole.
- 3 - One extension bracket is required per fixture.
- 4 - Pole top hub will fit over 4" OD pole or 5" OD pole with 4" tenon.
- 5 - Cap is included with pole top hub.

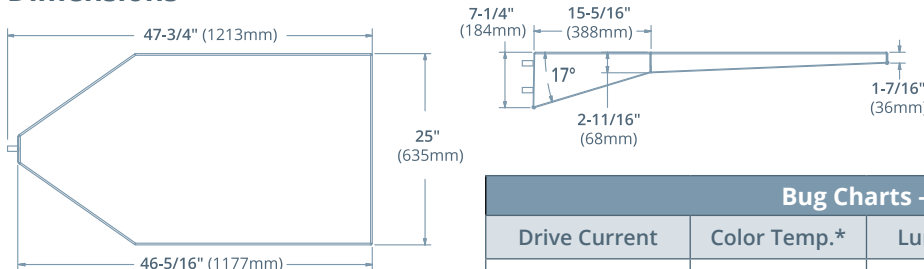


House Side Shields

Rear Mount (610098BLK)



Dimensions



Bug Charts - XARL- Type FT					
Drive Current	Color Temp.*	Lumens	Watts	LER	BUG Rating
HO High Output	CW	58,977	528	112	B5-U0-G4
	NW	56,960	528	108	B5-U0-G5

A proud member of **ASBA** (American Sports Builders Association) and **TIA** (Tennis Industry Association)



This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements. Fixtures comply with ANSI C136.31-2010 American National Standard for Roadway Lighting Equipment - Luminaire Vibration 1.5G requirements.



LSI Also Offers Specialized Lighting in Other Areas



Indoor Court Lighting

Our indoor sports lighting products provide high performance and energy efficiency. LSI's SXS2 indoor indirect LED lighting system offers the perfect combination of low energy consumption and high light output along with low maintenance and a long life. We have completed projects for a number of universities, municipalities, country clubs, and more.



Other Specialty Sports

Along with tennis, LSI Sports Lighting have experience in designing lighting systems for other outdoor activities, including basketball courts, volleyball courts, and skate parks. In the past, we have provided lighting systems for universities, recreation centers, municipalities, and private residences. With multiple fixtures to choose from, LSI can recommend the right product for your project.

