

# LED AREA LIGHTS - PATRIOT® (XPT3)

**Crossover®**  
LED LIGHTING TECHNOLOGY



US patent 7828456, 7952293, 8002428, 8177386 and CAN 2736757 and MX patent 29631 and ISRL 49679 and AUS 2008312668 and US & Int'l. patents pending

**SMARTTEC™ THERMAL CONTROL** - Sensors in both optical and driver enclosure reduce driver current when ambient temperatures exceed 50°C. Current is lowered in imperceptible 5% increments every 5 minutes until safe operating temperature is reached.

**OCCUPANCY SENSING (IMS)** - Optional integral passive infrared motion sensor activates switching of luminaire light levels. High level light is activated and increased to full bright in 1-2 seconds upon detection of motion. Low light level (30% maximum drive current) is activated when target zone is absent of motion activity for ~2 minutes and ramps down (10-15 seconds) to low level to allow eyes time to adjust. Sensor is located on the rear of optical assembly. Sensor optic has a detection cone of approximately 45°. Examples of detection - occurs 30' out from a 30' mounting height pole; occurs 20' out from a 20' mounting height pole.

**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 (5250°K nominal) or Neutral White (4100°K nominal) color temperature. 70 CRI (nominal)

**DISTRIBUTION/PERFORMANCE** - Type 3, 5 and FT. Exceptional uniformity with full cutoff creates bright environment at lower light levels. Improved backlight cutoff minimizes light trespass.

**HOUSING** - One-piece, die-cast aluminum in a multi-radiused, rectangular shape with mounting arm cast in as an integral part of the housing. All hardware is stainless steel or electro-zinc plated steel.

**OPTICAL UNIT** - Clear tempered optical grade flat glass lens sealed to die-cast aluminum door assembly. Secures to housing with stainless steel hinge bracket. Integral over-center latch allows easy tool-less access to driver. Optic provided with catch mechanism to limit door swing. One-piece extruded silicone gasket seals optical assembly against the housing.

**MOUNTING** - Use with 5" traditional drilling pattern. Integral cast mounting arm is flat for square pole applications. Use round pole adaptor (RPPC) to mount to round poles. RPPC must be ordered separately. Extruded 6" arm extension is available (but not required for 90° or 120° mounting configurations).

**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 (UE-50/60Hz input) and 347-480VAC. Optional twistlock photocell receptacle is available. Photocell must be ordered separately. Fixture Watts (nominal): 350mA - 144, 450mA - 188.

**DRIVER** - Available in 350mA and 450mA drive currents. (Drive currents are factory programmed). Components are fully encased in potting material for IP65 moisture resistance. Driver complies with FCC 47 CFR part 15 RFI/EMI standard.

**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** - Application layouts are available upon request. Contact LSI Applications Group at [lighting.apps@lsi-industries.com](mailto:lighting.apps@lsi-industries.com)

**SHIPPING WEIGHT (in carton)** - 56 lbs /25.4 Kg

**LISTING** - ETL listed to U.S. and Canadian safety standards. Suitable for wet locations.

**LED lighting facts®**  
A Program of the U.S. DOE

Light Output (Lumens)	15793
Watts	186.5
Lumens per Watt (Efficacy)	85

Color Accuracy Color Rendering Index (CRI)	68
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**Light Color**  
Correlated Color Temperature (CCT)

5320 (Daylight)

2700K 3000K 4500K 6500K

Warm White Bright White Daylight

LED Lumen Maintenance Projection at 25,000 Hours at 25°C Ambient*	94.32%
Warranty**	Yes

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.

\* Based on TM-21 projections for the light source.

\*\* See [www.lightingfacts.com/products](http://www.lightingfacts.com/products) for details.

Registration Number: KGGN-ZS3DX4 (11/5/2012)  
Model Number: XPT3 FT LED 128 450 CW UE  
Type: Outdoor area/roadway fixture

## LIGHT OUTPUT - XPT3

		# of LEDs	Lumens (Nominal)		
			Type 3	Type 5	Type FT
Cool White	350mA	128	12500	12100	13300
	450mA	128	14600	14400	15800
Neutral White	350mA	128	11700	11600	12600
	450mA	128	13400	13300	14700

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.

American Innovation



IP65



Also available in traditional light sources



Project Name \_\_\_\_\_ Fixture Type \_\_\_\_\_

Catalog # \_\_\_\_\_

01/21/14

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LSI INDUSTRIES INC.

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## LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XPT3 FT LED 128 450 CW UE WHT PCR**







Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish	Options
XPT3 - LED Patriot	3 - Type III 5 - Type V FT - Forward Throw <sup>1</sup>	LED	128	350 - 350mA 450 - 450mA	CW - Cool White NW - Neutral White	UE - Universal Voltage (120-277V)  347-480V	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	PCR - Photoelectric Control Receptacle <sup>2</sup> TB - Terminal Block IMS - Integral Motion Sensor

### NOTE:

1 - This is a non-field-rotatable optic. For retrofit applications in which the original metal halide product was rotated and LED version will require a non-standard orientation, consult factory.

2 - Photocell must be ordered separately - see Accessories.

## LUMINAIRE EPA CHART - XPT3

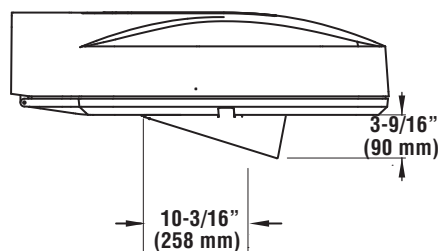
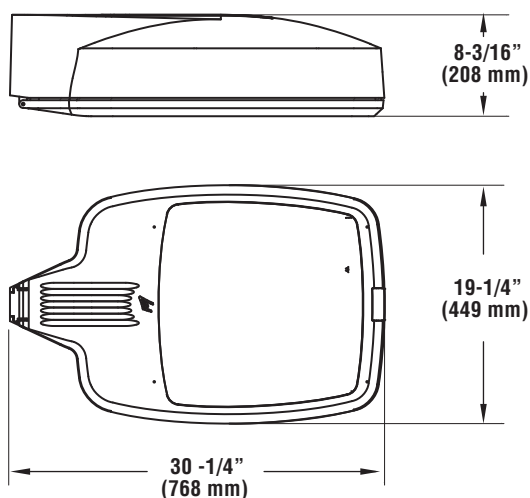
	<b>Single</b>	<b>1.5</b>
	<b>D180°</b>	<b>3.0</b>
	<b>D90°</b>	<b>2.3</b>
	<b>T90°</b>	<b>3.8</b>
	<b>TN120°</b>	<b>4.0</b>
	<b>Q90°</b>	<b>4.5</b>

**Note:** House Side Shield adds to fixture EPA. Consult Factory.

## ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number	Description	Order Number
PC120 - Photocell	122514+	XPT3 FT HSS RM - External House Side Shield - Rear Mount	520281BLK+++
PC208-277 - Photocell for 208V, 240V or 277V	122515+	XPT3 PLS - Polycarbonate Shield	92730
PC347 - Photocell	159516+	BKS-BO-WM-* - CLR - Wall Mount Plate	123111CLR
PC480 - Photocell	1225180+	BKA-BO-EC-6-CLR - Extension Arm	142862CLR
RPPC - Round Pole Plate	141940CLR	BKA-BO-RA-8-CLR - Radius Arm	169010CLR
FK120 - Single Fusing	FK120++	BKU-BO-S-19-CLR - Upsweep Bracket for Round and Square Poles	144191CLR
FK277 - Single Fusing	FK277++	<b>NOTES:</b>	
DFK208, 240 - Double Fusing	DFK208,240++	*Factory installed PCR option required. ++Fusing must be located in the hand hole of pole.	
DFK480 - Double Fusing	DFK480++	+++Black only. House Side Shields add to fixture EPA.	
FK347 - Single Fusing	FK347++		

## DIMENSIONS



**House Side Shield  
Rear Mounted (520281BLK)**