

LED AREA LIGHTS - CHALLENGER® MEDIUM (XCHM3)



US patent 7828456, 8002428 and CAN 2736757 & 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.

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 - Radiused, rectangular-shaped, aluminum housing with stainless steel or electro-zinc plated steel mounting hardware.

OPTICAL UNIT - Clear tempered optical grade flat glass lens sealed to aluminum housing creates an IP67 rated, sealed optical unit. Pressure stabilizing breather allows super-tight protection while preventing temperature cycling from building up internal pressures and vacuums that can stress optical unit seals. Patented integral single-blade heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture. Two stainless steel captive fasteners allow easy access to driver. One-piece extruded EPDM gasket seals optical assembly against housing.

MOUNTING - Use with 5" traditional drilling pattern. An extruded radius 8" arm is shipped standard and compatible with all fixture mounting configurations. The fixture may also be mounted to 3"-5" round poles using the round pole plate adaptor accessory (RPP2), which must be ordered separately.

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: 350 mA - 141, 450 mA - 187 nominal.

DRIVER - Available in 350mA and 450mA drive currents. (Drive currents are factory programmed). State-of-the-art driver technology designed specifically for LSI LED light sources provides unsurpassed system efficiency. Components are fully encased in potting material for IP65 moisture resistance. Driver complies with FCC 47 CFR part 15 RF/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, and is guaranteed for five full years. Standard colors include bronze, black, platinum plus, graphite, satin verde green, metallic silver and white. Meets requirements of ASTM B117 1000-hour salt fog and ASTM G155 1000-hour Xenon Arc UV tests (supersedes G53 UVB313).

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

SHIPPING WEIGHT (in carton) - 33 lbs./15Kg

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

LIGHT OUTPUT - XCHM3					
	# of LEDs	Lumens (Nominal)			
		Type 3	Type 5	Type FT	
Cool White	350 mA	128	12800	12100	13000
	450 mA	128	15200	14300	15500
Neutral White	350 mA	128	11700	11100	11700
	450 mA	128	13400	12200	14000

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



IP67

Also available in traditional light sources

Suitable for wet locations



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: **XCHM3 FT LED 128 450 CW UE WHT PCR**

Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish	Options
XCHM3 - LED Challenger Medium	3 - Type III 5 - Type V FT - Forward Throw	LED	128	350 - 350mA 450 - 450mA	CW - Cool White NW - Neutral White	UE - Universal Voltage (120-277) 347-480	BLK - Black BRZ - Bronze GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White	PCR - Photoelectric Control Receptacle ¹

NOTE:

1 - Photocell must be ordered separately - see Accessories.

LUMINAIRE EPA CHART - XCHM3

	Single	1.4
	D180°	2.9
	D90°	2.5
	T90°	4.0
	TN120°	4.1
	Q90°	5.1

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

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number	
PC120 - Photocell	122514+	XCHM3 HSS - House Side Shield for Type 3 and FT 496128BLK+++
PC208-277 - Photocell for 208V, 240V or 277V	122515+	BKS-BO-WM-* - CLR - Wall Mount Plate 123111CLR
PC347 - Photocell	159516+	BKA-BO-RA-8-CLR - Radius Arm 169010CLR
PC480 - Photocell	1225180+	SKU-BO-S-19-CLR - Upsweep Bracket for Round and Square Poles 144191CLR
RPP2 - Round Pole Plate	162914CLR	
FK120 - Single Fusing	FK120++	
FK277 - Single Fusing	FK277++	
DFK208, 240 - Double Fusing	DFK208,240++	
DFK480 - Double Fusing	DFK480++	
FK347 - Single Fusing	FK347++	

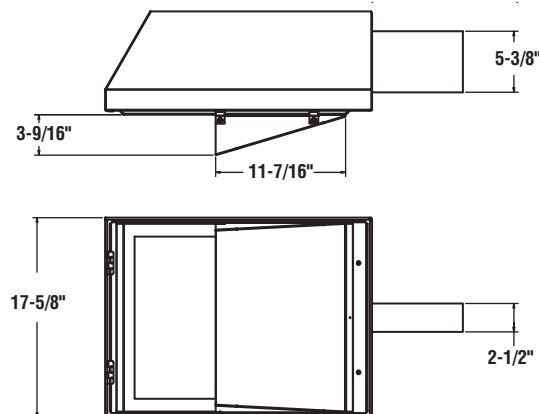
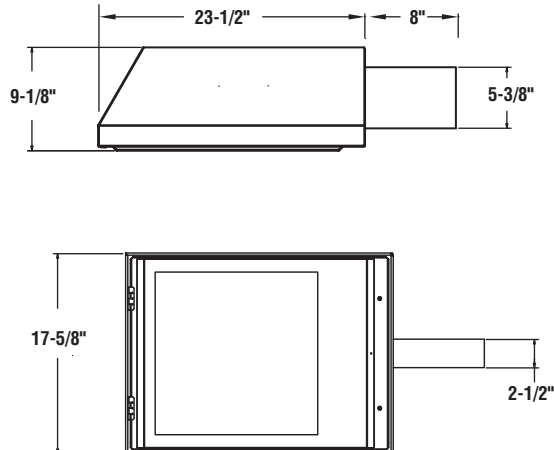
NOTES:

+Factory installed PCR option required.

++Fusing must be located in the hand hole of the pole.

+++Black only. House Side Shield adds to fixture EPA. Consult Factory.

DIMENSIONS



HOUSE SIDE SHIELD (496128BLK)