

# LED RETROFIT KIT FOR CHALLENGER® MEDIUM (XCHM3K)



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

**APPLICATIONS** - Converts Challenger Medium (CH2VM, CH2HM, CHVM and CHHM) from HID to LED light source.

**EASY RETROFIT** - Includes gasketed, hinged optical assembly with driver. Simply remove the existing door, HID ballast and reflector assembly, install the new hinged LED optic/door assembly, connect fixture supply leads to the driver and close the door.

**“GREEN” ENERGY-SAVING** - Reduces greenhouse gas emissions, slashes operating costs, extends life and eliminates costly lamp replacement and disposal involving mercury waste.

**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.

**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.

**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. 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 RFI/EMI standard.

**OPERATING TEMPERATURE** - -40°C to +50°C (-40°F to +122°F)

**FINISH** - Kits 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.

**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)** - 22 lbs./10Kg

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

LIGHT OUTPUT - XCHM3K					
	# 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.

American Innovation



IP67

# LED RETROFIT KIT FOR CHALLENGER® MEDIUM (XCHM3K)

## LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **XCHM3K FT LED 128 450 CW UE WHT**

Prefix	Distribution	Light Source	# of LEDs	Drive Current	Color Temperature	Input Voltage	Finish
XCHM3K - LED Retrofit Kit for 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

### NOTE:

XCHM3Ks will retrofit existing Challenger Medium fixtures with GR and TE options. However, due to no longer needing to relamp, the retrofit kits do not offer these options.

## ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number
FK120 - Single Fusing	FK120+
FK277 - Single Fusing	FK277+
DFK208, 240 - Double Fusing	DFK208,240+
DFK480 - Double Fusing	DFK480+
FK347 - Single Fusing	FK347+
XCHM3K HSS - House Side Shield for Type 3 and FT	496128BLK++

### NOTES:

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

++Black only. Housing side shields adds to fixture EPA. Consult Factory

## DIMENSIONS

