



# LED Retrofit Kits for Ceiling-Mounted Luminaires

Retrofitting round ceiling-mounted fixtures with efficient LED technology has never been easier. Fulham ThoroLED™ **Retrofit Kits** are available with either 7-inch or 9-inch round, dimmable light engines to fit most standard fixtures. All required hardware and instructions are included. As **cULus Classified Kits**, they are suited for either OEM (factory\*) or field retrofits. These kits are conveniently offered in a range of color temperatures.

- cULus Classified (field installable)
- Up to 3100 lm-Engine (9")
- Up to 1550 lm-Engine (7")
- 2700K-5000K @ 80 & 90CRI
- TRIAC Dimming (120V)
- 0-10V Dimming (UNV)
- 90 CRI for CA Title 24 available
- 50,000 Hr L70
- RoHS, FCC
- Suitable for retrofit rebates
- AC Input



Specifications	9" Engine Kit		7" Engine Kit	
Input Voltage (50/60Hz)	120VAC	120-277VAC (UNV)	120VAC	120-277VAC (UNV)
Dimming	TRIAC	0-10V	TRIAC	0-10V
Maximum Case Temperature (Tc)	90°C Module; 80°C Driver	90°C Module; 86°C Driver	90°C Module; 88°C Driver	90°C Module; 90°C Driver
Beam Angle	120°			
CRI	80 Standard, 90 Available			
Operating Ambient Temperature Range (Ta)	-31°F to + 113°F (-35°C to + 45°C)			
Estimated Lumen Maintenance (L70)	>50,000 hours at max Tc			
Color Consistency	Binning per ANSI C78.377-2008; 7 SDCM			
Maximum Screw Installation Torque	35 in-oz.			
Safety/Compliance	Class 2 Lighting System; cULus File # E365124; RoHS Compliant			
Warranty	5 years			






	9" Engine Kit	7" Engine Kit
	TKT120025RDXX-X1 TKMUNV021RDXX-X1 TKT120021RDXX-X1 TKMUNV025RDXX-X1	TKT120013RDXX-X1 TKMUNV013RDXX-X1
Nominal Input Power	25W/21W	13W
Max Lumen Output @ Full Power	2900/2325 lumens @ 4000K	1450 lumens @ 4000K
Overall Size	9" diameter x 1.75" height	7" diameter x 1.25" height
Weight	397 g	205 g
OEM Part Number for Light Engine Only (Available Separately as cURus component)	TET120025RDXX-X1 TEMUNV021RDXX-X1 TET120021RDXX-X1 TEMUNV025RDXX-X1	TET120013RDXX-X1 TEMUNV013RDXX-X1
OEM Part Number for LED Module Only (Available separately as cURus component)	TM80RD05XX201 TM64RD05XX201	TM40RD05XX201

Product Benefits	
Labor: Fewer Lamp Changes/ Replacements	Security: Bolt-down Construction Prevents Loss
Material: Longer LED System Life	Investment Protection: Keep Your Current Fixtures
Utility: Reduced Energy Costs	Environmentalism: Less Waste Disposal

**TK** ThoroLED Kit  
**T** Control\*  
 T = TRIAC  
 M = 0-10V  
**120** Input Voltage  
 120 = 120VAC  
 UNV = 120 ~ 277VAC  
**021** LED Module Rated Power  
 013 = 13WDC  
 021 = 21WDC  
 025 = 25WDC  
**RD** Round  
**30** Color Temperature  
 Standard: 30 = 3000K, 40 = 4000K  
 Custom: 27 = 2700K, 35 = 3500K, 50 = 5000K  
**0** Configuration  
 0 = Standard 80 CRI  
 1 = 90 CRI  
 2 = 80 CRI & Conformal Coating (Outdoor)  
 3 = 90 CRI & Conformal Coating (Outdoor)  
**1** Sequence / Generation

(PART NUMBERING KEY) \*TRIAC Dimmable available only in 120VAC Input, 0-10V Dimmable available only in Universal Input

**KIT INCLUDES:**

- LED Engine**:  or 
- Hardware**: 
- Required UL Classified Labels**:
  - LED MODULE # TKMUNV013HRXXX1
  - CAUTION - THIS LUMINAIRE HAS BEEN MODIFIED TO OPERATE LED LAMPS. DO NOT ATTEMPT TO INSTALL OR OPERATE FLUORESCENT LAMPS IN THIS LUMINAIRE.
  - REPLACEMENT INFORMATION: Replace Only With Fulham Electronic Co. Ltd. DRIVER MODEL # T1M1UNV0350-15L
- Installation Instructions**: 