



Catalog Number:	
Project:	
Comments:	
Prepared By:	Date:

## Description

The L-RETRO-T LED teardrop kit offers service professionals an economic, easy to install solution to safely upgrade HID luminaires to LED. Available in three output versions, the L-RETRO-T Retrofit Kit proves to be the perfect LED conversion solution for your next teardrop project.

## Retrofit Custom Optics



## Technical Specifications

**Input Voltage:** 120-277V or 347-480V

**Kit Contents:** The kit consists of a custom-designed aluminum panel with integrated LED circuit board, LED driver, 20kA surge suppressor, and all wiring and hardware required for installation. Installation of the kit to the existing fixture is accomplished via provided mounting screws.

**Power Supply:** A single wide range (120V to 277V), regulated DC power supply is included. The power supply is compliant with UL 1012 and 1310.

The power supply performance meets the following electrical characteristics: THD: Less than 20%. PF: Greater than 0.90 @ 277V.

**Color Temperature:** 2200K, 2700K, 3000K, 4000K (standard), 5000K.

**LED Lifetime:** All LED's are rated for a minimum of 100,000 hours of continuous operation at ambient temperatures from -40°F/-40°C to 120°F/50°C.

**Light Engine:** Each light engine consists of a total of 72 LEDs with acrylic optics. The LED board is mounted to a 0.125" thick aluminum disk that is customer fit to the existing fixture.

**Color Rendering Index (CRI):** Minimum of 80 or higher.

**Dimming:** 0-10V standard dimming capability.

**Surge Protection:** Thermally protected 20kA/ 40kV varistor type surge suppressor is included and meets ANSI C136.2-2015: Extreme Level. Also meets IEC61643-11 Class II / EN61643-11 Type 2, and US Dept of Energy MSSLC Model Spec for surge protection. The device is wired in series with the luminaire input power in order to interrupt power to the luminaire when consumed, protecting the LED power supply and circuit boards from additional electrical surges.

**Lumecon ETD™ System:** The enhanced thermal dissipation system engines are thermally bonded to provide maximum thermal dissipation to the exterior of the fixture to ensure long life. To protect the light engine panel from moisture and corrosion, the LED light engine panel is uniformly coated with a UV stabilized acrylic polymer resin that meets MIL and ASTM dielectric standards, UL, and IPC standards for flammability, moisture resistance and thermal shock.

**Certification Data:** ETL Listed to UL 1598C, CSA 22.2 No. 250.1 for Wet Locations. \*Full compliance and test documentation is available for TM-21, LM-79, LM-80, ETL Listing to UL1598C. All Components Passed 3G vibration @ 100K cycles, per ANSI C136.31-2018.

**DesignLights Consortium® (DLC) Qualified Product:** Unless noted, not all versions of this product may be DLC® qualified. For a complete list of Lumecon DLC® Qualified Products visit: [www.designlights.org](http://www.designlights.org).

**Manufacturing Origin:** US Manufactured and Assembled.

**Buy American:** Meets Buy American requirements within the ARRA.

**Warranty:** 10 Year L70 performance based warranty. For full warranty terms, please visit our website: [www.lumecon.com](http://www.lumecon.com)



### Ordering Information

L - RETRO - T Options / Ordering Example: L-RETRO-T-45-T2-27-1

Wattage	Distribution	Color Temperature	Voltage
45 - 45 Watts	T2 - Type II	22 - 2200K*	1 - 120v-277v
65 - 65 Watts	T3 - Type III	27 - 2700K	2 - 347v-480v
90 - 90 Watts	T4 - Type IV	30 - 3000K	
	T5 - Type V	40 - 4000K	
		50 - 5000K	
		* not DLC qualified	

### Options and Accessories

MS - Motion Sensor

### Performance Data

Model	Distribution Type	Watts	2200K		2700K		3000K		4000K		5000K	
			Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
L-RETRO-T-45	Type 2	45W	4,452	101	4,925	111	5,295	120	5,413	122	5,641	128
	Type 3	45W	4,602	104	5,901	115	5,449	123	5,596	127	5,831	132
	Type 4	45W	4,106	93	5,239	118	5,499	124	5,759	130	6,001	136
	Type 5	45W	4,779	108	5,287	120	5,337	121	5,812	131	6,519	137
L-RETRO-T-65	Type 2	65W	5,892	94	6,519	104	6,780	108	7,166	114	7,467	119
	Type 3	65W	6,091	97	6,739	108	7,213	115	7,408	118	7,944	127
	Type 4	65W	6,278	100	6,935	111	7,279	116	7,624	123	8,017	128
	Type 5	65W	6,326	101	6,780	112	7,279	116	7,693	123	8,017	128
L-RETRO-T-90	Type 2	90W	9,923	109	10,979	121	11,418	126	11,986	133	12,575	139
	Type 3	90W	10,259	113	11,350	125	12,147	134	12,400	138	13,378	148
	Type 4	90W	10,550	117	11,680	129	12,259	135	12,912	142	13,501	149
	Type 5	90W	10,605	118	11,813	130	12,224	135	12,877	143	13,500	149