



LUNERA LED LAMPS

Linear and U-Bent

Creating a Better T-LED Lamp

Lunera T-LED lamps unite innovations in design, materials and electronics to establish the benchmark for quality linear lamps. Our engineering breakthroughs make our lamps indistinguishable from the fluorescents they replace and are simple, safe, and certified.



Designed for Performance

Flexible PCB

We mount our LEDs on a Flexible PCB for greater reliability/safety and better thermal conduction.



Superior Ballast Compatibility

Lunera pioneered ballast driven LED lamps in the commercial space. Our linear lamps are tested for compatibility with over 200 ballasts including Instant-Start, Rapid-Start and Programmed Start types

High Performance

We select high performance LEDs and power them at less than 40% of their rated drive to improve efficacy and extend lamp life.



Broader Beam Spread

If it wasn't for the near full-spectrum light from the LEDs, the 330° beam spread of our lamps would make them imperceptible in the fixture compared to the fluorescent tubes we replace.

Maximum Illumination and Functionality

We've miniaturized the electronics package to minimize the size of the end cap, allowing the maximum length of the tube to be illuminated, while leaving room for integrated sensors, controllers, and communications electronics.

Better Glass

Our tubes are made of superior-grade toughened glass for better optical efficiency and have end-necking for added strength.

Unlike plastic LED tubes which commonly yellow or sag over time, our glass remains unchanged for the life of the lamp.

P.E.T. Shatter Guard is also available.

Engineered for Reliability & Quality

New

Universal Tombstone Technology (UTT)

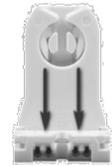
Line Driven (Type B) TLEDs are now the most common linear fluorescent upgrade, eclipsing ballast driven Type A).

Our **Line Driven TLEDs with Universal Tombstone Technology**, are the first double-ended LED linear lamps to receive UL Certification making them safe to install in both Shunted and Un-shunted sockets.

UTT simplifies the installation of our Line Driven T8 LEDs by eliminating the need to replace or rewire the tombstones sockets while eliminating a potential shock hazard during installation.



Un-Shunted
(used in 85% of fixtures with Instant-Start Ballasts)



Shunted
(used in 15% of fixtures with Rapid- or Programmed-Start Ballasts)

Thermal Fuse

New

Our **Ballast Driven TLED** linear lamps now come with an integrated **Thermal Fuse**, a reliability and safety feature that disables the lamp in the event of arcing or improperly wired ballasts, preventing it from overheating.

Retrofit Kits

New

For the lowest power or to meet the most stringent utility rebate or building code requirements, our T8 and T5HO LEDs are now available kitted with a custom LED driver.

DLC Listed



Lunera's linear lamps are DLC listed (when categories are available), qualifying them for **local utility rebates** which makes payback quick. Check the cut sheets to confirm a specific model is listed.



T8 LINEAR
DLC Listed
Socket Wiring
Thermal Fuse Protection
Universal Tombstone Technology
Dimmable
P.E.T. Shatterguard
Integrated Sensors
External Driver Kit

BALLAST DRIVEN			
2FT	3FT	4FT	8FT
Yes	No	Yes	Pending
Shunted or Un-Shunted			
Yes			
No			
Yes, ballast dependent			
Yes	Yes	Yes	
No			
		Yes	

LINE DRIVEN			
2FT	3FT	4FT	8FT
Yes	No	Yes	Pending
Shunted or Un-Shunted			
No			
Yes			
Yes, ballast dependent			
Yes	Yes	Yes	
Yes (2017)			
		Yes	

T8 U-BENT
DLC Listed
Socket Wiring
Thermal Fuse
Universal Tombstone Technology
Dimmable
P.E.T. Shatterguard
Integrated Sensors
External Driver Kit

22in (2" Gap)	22in (6" Gap)
No	
Shunted or Un-Shunted	
Yes	
No	
Yes, ballast dependent	
No	
No	
No	

22in (2" Gap)	22in (6" Gap)
No	
Shunted or Un-Shunted	
No	
No	
Yes, ballast dependent	
No	
No	
No	

T5HO LINEAR
DLC Listed
Socket Wiring
Dimmable
Universal Tombstone Technology
P.E.T. Shatterguard
Thermal Fuse
Integrated Sensors
External Driver Kit

2FT	4FT
Yes	Yes
Shunted or Un-Shunted	
No	
	Yes

T12 LINEAR
DLC Listed
Socket Wiring
Thermal Fuse
Universal Tombstone Technology
Dimmable
P.E.T. Shatterguard
Integrated Sensors
External Driver Kit

8FT
Pending
Shunted or Un-Shunted
Yes
No

8FT
Pending
Shunted or Un-Shunted
No
Yes
No
No
No
No