TSL Series

Linkable LED Strip Lights









DESCRIPTION

The TSL Series includes 2', 4' and 8' linkable LED strip lights designed to replace fluorescent strip lighting. The TSL Series delivers general ambient lighting in a variety of indoor settings, including schools, hospitals, stores and is the perfect choice for both new construction and retrofits. This high-efficacy luminaire is a cost effective solution that provides long-life, uniform illumination and is incredibly easy to install with its mounting clips and access door behind the unit.

SPECIFICATIONS

Construction

- · Steel housing in a white finish
- · Available in three lengths and four different lumen packages
 - 2' Unit, 20 Watts, 2918 lumens
 - 4' Unit, 24 Watts, 3255 lumens
 - 4' Unit, 32 Watts, 4181 lumens
 - 8' Unit, 64 Watts, 7943 lumens
- · Back access plate and snap-on mounting clips for easy installation

Optics/LEDs

- Polycarbonate lens that provides uniform illumination along the entire length of the luminaire with no visible LED pixilation
- General 120° distribution
- Efficacies up to 146 LPW maximize energy savings and utility rebates
- Available in 3500K, 4000K and 5000K CCT
- CRI of ≥80
- · L90 rated at 50,000 hours

Flectrical

- 120-277VAC, 50/60Hz
- 1-10V Dimming driver

Installation

- · Back access plate for ease of wiring without disassembling unit
- Snap-on mounting clips allow for ease of surface mount or cable mount for suspension installation (suspension kit sold separately)
- Several knockouts along the enclosure for flexibility in mounting
- Not suitable for installation in T-bar ceilings without field mounting modifications to be determined by installer

Options (Factory Installed)

- Battery Backup
 - Integral UL924 Listed battery pack provides 800 lumens and 90 minutes of emergency run time for path of egress
 - Rated for ambient temperatures of 0°C to 40°C (32°F to 104°F)

Accessories (Field Installed)

- Dimming sensor with daylight harvesting capability available for additional energy savings (TL-MSC) can be controlled via DIP switches or remote control (sold separately)
- Remote control for sensor (TL-MSC-REMOTE) allows for field programming
- · Cable and hook mount, 5' (TSL-CHK); two kits required for 8' units
- Linkable adaptor kit allows units to be linked end to end for continuous rows with seamless illumination, kit available for 4' or 8' units
 Max units linkable = TSL-4-24, 30 pcs @ 120VAC, 60 pcs @ 277VAC TSL-4-32, 22 pcs @ 120VAC, 44 pcs @ 277VAC TSL-8-64, 14 pcs @ 120VAC, 30 pcs @ 277VAC

TESTING & COMPLIANCE

- cULus Listed for Damp Locations (consult factory for UL Listed options)
- DesignLights Consortium® (DLC) PREMIUM Qualified
- Operating temperatures: -20°C to 40°C (-4°F to 104°F)

AVAILABLE WHILE SUPPLIES LAST



Specs At A Glance*							
Length	2'	2	8'				
Wattage (W)	20W	24W	32W	64W			
Lumens (Im)	2918	3255	4181	7943			
Efficacy (LPW)	146	130					
Distribution	General 120°						
ССТ	3500K, 4000K, 5000K						
CRI	≥80						
Input Voltage	120-277VAC, 50/60Hz						
Operating Temp	-20°C to 40°C (-4°F to 104°F)						
Certifications	UL Listed for Damp Locations, DLC PREMIUM						
Warranty	5 Years						
Weight	2.5 lbs 4.8 lbs 9 lbs						

^{*}Nominal Wattage. Tested at 5000K CCT

Note: Environment and application will affect actual performance. Typical values and 25°C (77°F) used for testing. Specifications subject to change without notice.

WARRANTY

• Five year warranty (Terms and Conditions apply)





Ordering Information (Example: TSL-4-32-4K-BB)

Series	Length/Wattage	ССТ	Options	Accessories ² (Field Installed)
TSL	2-20 = 2', 20W	35K = 3500K	BB¹ = Battery Backup	TL-MSC = Dimming occupancy sensor
	4-24 = 4', 24W	4K = 4000K		TL-MSC-REMOTE = Remote control for TL-MSC
	4-32 = 4', 32W	5K = 5000K		TSL-CHK³ = 5' Cable + hook kit
	8-64 = 8', 64W			TSL-L4 = Linkable adaptor and wire harness for 4' units
Notes:				TSL-L8 = Linkable adaptor and wire harness for 8' units

¹ Not compatible with linkable adaptor accessories (TSL-L4, TSL-L8)

Sensor Settings

By selecting the combination of the DIP switches, sensor data can be precisely set for each specific application.

ON		1	2		
1	ı	ON	ON	100%	_
	II	ON	OFF	75%	
	III	OFF	ON	50%	
OFF	IV	OFF	OFF	10%	

- Default setting with gray background

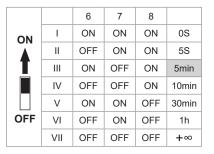
Detection area

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application. Default set at 100%.



Hold time

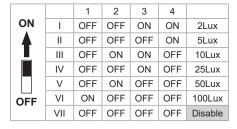
Refers to the time period the lamp remains at 100% illumination after no motion detected. Default set at 30 seconds.



Standby period

Refers to the time period the lamp remains at a low light level before it completely switches off in the long absence of people.

When set to $+\infty$ mode, the low light maintained until motion is detected. Default set to five minutes.



Daylight sensor

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold.

When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level. 50Lux, 30Lux: twilight operation, 10Lux, 5Lux: darkness operations only. Default set to disable.

Note - The daylight sensor is active only when lamp totally switches off.



Standby dimming level

The low light level you would like to have after the hold time in the long absence of people. Default set as 30%.



Occupancy Sensor

(Accessory TL-MSC)

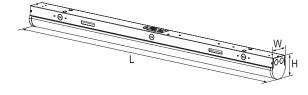
² Order as a separate line item; shipped in a separate box for field installation

³ Two kits are required for TSL-8 (8') units

Sensor Remote Settings (Remote Control TL-MSC-REMOTE)

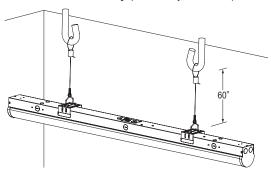
Button	Function					Remarks					
ON/ OFF	Constant ON/OFF	Press the "ON/OFF" button, the light goes to a constant on or constant off mode, sensor is disabled. Press "Reset" or "Auto Mode" button to quit from this mode.									
Reset	Reset	Press "Reset" button, all parameters can be set via DIP switch.								O Auto DII	
Auto Mode	Sensor Mode		Press "Auto Mode" button, the sensor will start to work and all parameter settings will remain the same as the previous status before the light was switched on/off.								
DIM Test	DIM Test	according t	Press "DIM Test" button, the 1-10Vdc dimming interface will be dimming automatically according to the dimming level you want, after 2s, the parameters of the sensor will be returned to the latest settings.								
Test (2s)	Test Mode	The sensor Detection s Hold time: Stand-by p Daylight se *This mode	The sensor will go to test mode: Detection sensitivity: 100% Hold time: 2 seconds Stand-by period: 0s Daylight sensor: Disable						Smin 10min 20min 30m	%	
QS1 QS2 QS3 QS4	Scene Mode		usted by	pressing	correspo			DIM level/daylight se test setting does n		SLux 15Lux 30Lux 50L	ux is is

Dimensions



Model	L	W	Н
TSL-2	24.0"	3.2"	3.5"
TSL-4	48.0"	3.2"	3.5"
TSL-8	96.0"	3.2"	3.5"

Cable + Hook Assembly (Accessory TSL-CHK)



Linkable Accessories



Kit includes translucent linkable adapter and wire harness. (TSL-L4 or TSL-L8)



Seamless illumination for continuous rows using linkable adapter kit. (TSL-L4 or TSL-L8)

