

### **Key Features**

- An aesthetically pleasing LED recessed troffer that's ideal for new construction or retrofit applications.
- Available in 2x2 & 2x4 models.
- Designed for 1" wide T-bars.
- Optional integrated motion sensor with daylight harvesting (Smart Blu™).
- Industry leading 10-Year warranty.

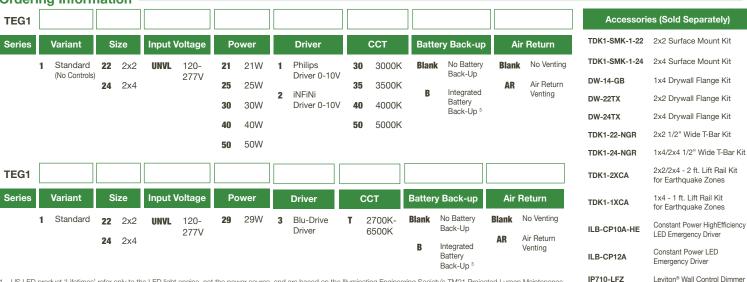
#### Electrical

- 120-277VAC input.<sup>2</sup>
- 0-10V dimming standard (Mark 7 interface).
- Operating temperature: -40°C to +40°C (-40°F to +104°F)

#### Mounting

- Easy to install in standard T-Grid ceilings.
- Accessory kit available for narrow grid, 1/2" wide T-bars.
- Surface mounting optional with mounting kit accessory (sold separately).
- Accessory kit available for earthquake zones.

## **Ordering Information**



US LED product 'Lifetimes' refer only to the LED light engine, not the power source, and are based on the Illuminating Engineering Society's TM21 Projected Lumen Maintenance methodology at a 25° C / 77° F ambient temperature. The lifetimes are solely meant to be a quide for expected LED degradation and not a warranty or predictive of their actual life which can be affected by ambient temperatures and other factors. Canadian 347VAC available upon request, but not DLC Listed.

Battery Back-Up Option [B] only available in 2x2 and 2x4 sizes



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Due to continued product improvements, product specifications are subject to change without notice. Please visit www.usled.com for the most updated product specifications.

#### Construction

- Housing is constructed of 22 gauge steel for exceptional durability.
- Pre-painted white finish is standard for the highest reflectance.
- Frosted ribbed acrylic lens is designed to maximize lumen output and minimize glare.
- Air return vents option available.

#### **Optics**

- Industry leading LEDs with 3000K, 3500K, 4000K, and 5000K CCT (minimum 80 CRI).
- Tunable white option available.
- Lumen Maintenance >161,000 hours (L70) 1

#### Warranty

· Backed by US LED's industry leading 10-year warranty.

Product Performa

Catalog Number

Project

Lumen Output	Up to 4,110 lumens
Efficacy	Up to 141 LPW
CRI	≥ 80 CRI
Available CCT	3500K, 4000K, 5000K or Tunable White (2700K-6500K)
Warranty	10-Year Warranty

Date

nce Summary

Type

#### **Product Overview**

The TEG architectural troffer is beautifully designed for applications that require lay-in troffers and is suitable for commercial, institutional and retail opportunities. The TEG features highly efficient low glare lighting, extreme power savings, along with low installation and maintenance costs. Its sleek profile, flexible design features, and simple mounting process make the TEG the perfect choice for schools, offices and many other projects needing a simple solution for T-Grid ceilings.

#### **Product Applications**

- Classrooms
- **Conference Rooms** 
  - Office Spaces
- Convenience Stores Retail Areas
- Hospitals
- · Health Care Facilities
- Hallways/Corridors Industrial/Warehouses · Commercial Spaces

#### **Product Certifications/Approvals**

- CSA Listed
- Complies with UL1598 and CSA 22.2
- DLC Premium Listed
- Suitable for indoor damp locations
- **RoHS** compliant

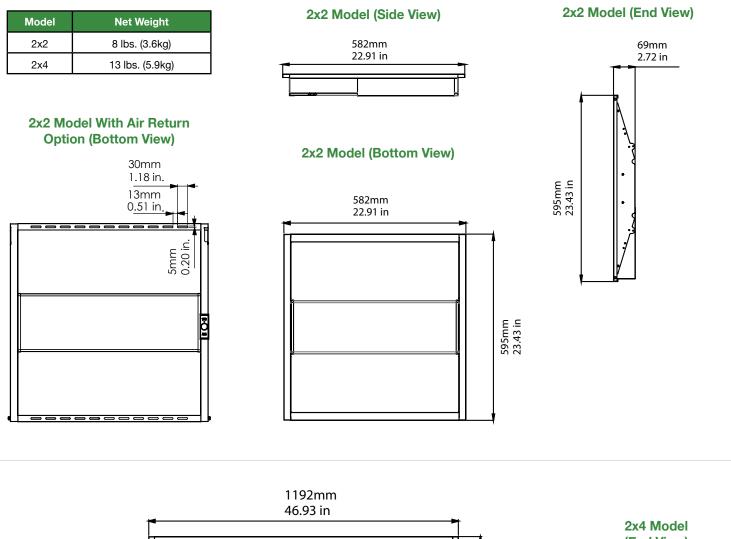


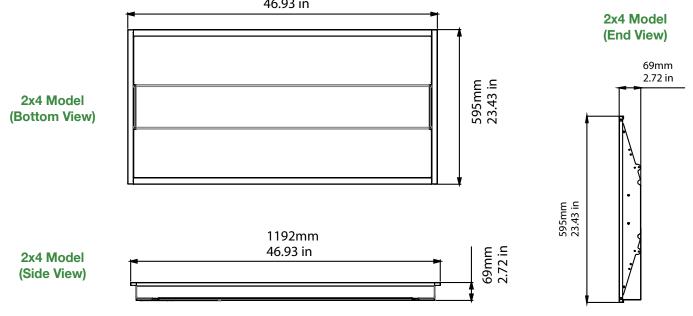
#### Example: TEG1-1-22-UNVL-25-1-50

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### **Dimensions**









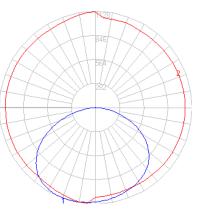
#### Performance Data

#### Luminaire Photometric Data

Model Number	TEG1-1-24-UNVL-25-1-50		
Issue Date	02/26/2019		
IESNA	LM-63-2002		
Lamp	LED		
Total Input Watts	24.7		
Total Lumens	3,520		
Efficacy	141 LPW		
Spacing Criterion	0°-180° = 1.28   90°-270° = 1.48		

#### **Zonal Lumen Summary**

Zone	Lumens	% Fixt
0-30	872.11	24.80
0-40	1444.16	41.00
0-60	2633.52	74.80
0-90	3518.30	100.00
0-180	3520.09	100.00



Model	System Level Power	Delivered Lumens	Efficacy	ССТ	L70 Calculate Life	L85 Calculate Life
TEG1-1-22-UNVL-25-1-30	25.0W	3,160L	126 LPW	3000K	161,000 Hours	75,000 Hours
TEG1-1-22-UNVL-25-1-35	25.0W	3,250L	130 LPW	3500K	161,000 Hours	75,000 Hours
TEG1-1-22-UNVL-25-1-40	25.0W	3,260L	131 LPW	4000K	161,000 Hours	75,000 Hours
TEG1-1-22-UNVL-25-1-50	25.0W	3,330L	133 LPW	5000K	161,000 Hours	75,000 Hours
TEG1-1-22-UNVL-30-1-30	31.3W	3,880L	124 LPW	3000K	161,000 Hours	75,000 Hours
TEG1-1-22-UNVL-30-1-35	31.3W	3,990L	128 LPW	3500K	161,000 Hours	75,000 Hours
TEG1-1-22-UNVL-30-1-40	31.3W	4,040L	129 LPW	4000K	161,000 Hours	75,000 Hours
TEG1-1-22-UNVL-30-1-50	31.3W	4,110L	131 LPW	5000K	161,000 Hours	75,000 Hours
TEG1-1-24-UNVL-25-1-30	24.7W	3,370L	135 LPW	3000K	161,000 Hours	75,000 Hours
TEG1-1-24-UNVL-25-1-35	24.7W	3,320L	135 LPW	3500K	161,000 Hours	75,000 Hours
TEG1-1-24-UNVL-25-1-40	24.7W	3,330L	137 LPW	4000K	161,000 Hours	75,000 Hours
TEG1-1-24-UNVL-25-1-50	24.7W	3,520L	141 LPW	5000K	161,000 Hours	75,000 Hours
TEG1-1-24-UNVL-30-1-30	30.5W	3,680L	120 LPW	3000K	161,000 Hours	75,000 Hours
TEG1-1-24-UNVL-30-1-35	30.5W	3,800L	125 LPW	3500K	161,000 Hours	75,000 Hours
TEG1-1-24-UNVL-30-1-40	30.5W	3,830L	126 LPW	4000K	161,000 Hours	75,000 Hours
TEG1-1-24-UNVL-30-1-50	30.5W	3,910L	128 LPW	5000K	161,000 Hours	75,000 Hours

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**Accessories** 

# TDK1-SMK-1-22 2x2 Surface Mount Kit TDK1-SMK-1-24 2x4 Surface Mount Kit

#### **Overview**

The TDK-SMK surface mount kits allow for US LED's TDK and TEG recessed lighting solutions to be field installed in plenum-less spaces. Designed for use on the surface of drywall or concrete ceilings, these surface mount kits are ideal for offices, educational facilities, healthcare facilities, and any other indoor applications where surface mount troffer installation is required. The TDK-SMK is available in 1x4, 2x2, or 2x4 configurations.

### **Key Features**

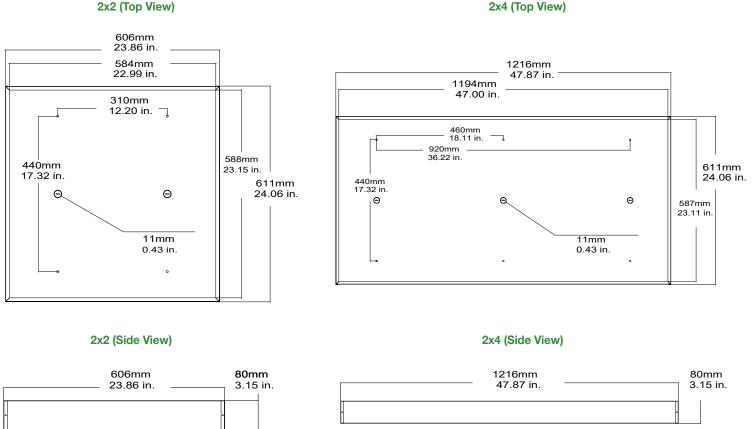
- Surface mounted kits that facilitate easy installation of recessed troffers in non-plenum spaces.
- Available in 1x4, 2x2, or 2x4 configurations.
- · Multiple knockouts offer flexible location for power feed.
- Extruded aluminum construction with white powder coat finish ensures maximum protection against potential rust.
- . Formed edges are smooth for safe handling while installing.
- Mounting holes provided for surface mounting to the ceiling.





2x4 (Top View)

#### **Specifications**







Always the Right Choice!



#### **Accessories**

# DW-14-GB 1x4 Drywall Flange Kit DW-22TX 2x2 Drywall Flange Kit DW-24TX 2x4 Drywall Flange Kit

#### Overview

Drywall flange kits act as T-Bar frames to support recessed troffer luminaires in wood, drywall, or plaster ceilings. From the room side, flange kits mimic the appearance of T-Bars in a baked white enamel finish.

#### Key Features

- 22 gauge steel, pre-painted white finish.
- All kits include: (2) side flanges, (2) end flanges, (4) corner brackets, and (8) thread cutting screws.

#### **Specifications**

- 1x4 Rough Opening: 48.66" x 12.74"
- 2x2 Rough Opening: 24.66" x 24.66"
- 2x4 Rough Opening: 48.66" x 24.74"

# TDK1-NGR-24 1x4/2x4 1/2" Wide T-Bar Kit TDK1-NGR-22 2x2 1/2" Wide T-Bar Kit

#### **Overview**

1/2" wide T-Bar brackets are designed to support recessed troffer luminaires on narrow (1/2" wide) T-Grids. Simple to install with 1/2" long sheet metal screws (not included).



## TDK1-2XCA 2 ft. Lift Rail Kit for Earthquake Zones (2x2/2x4) TDK1-1XCA 1 ft. Lift Rail Kit for Earthquake Zones (1x4)

#### Overview

The TDK1-2XCA-KIT and TDK1-1XCA-KIT are designed to allow you to attach an old fluorescent fixture to the T-Grid for added security as required by some local codes.



#### Accessories

### ILB-CP10A-HE - Constant Power High-Efficiency LED Emergency Driver

#### **Overview**

The ILB-CP10-HE from IOTA Engineering is

a UL Listed LED emergency driver for field

or factory installation that allows the same

LED fixture to be used for both normal and

emergency operation. In the event of a power

failure, the ILB-CP10-HE switches to the

emergency mode and operates the existing

fixture for 90 minutes. The unit contains a

battery, charger, and converter circuit in a

single enclosure and is available in different

mounting configurations for individual fixture

requirements. The ILB CP10-HE will operate an

LED array load at 10 watts with constant power

at a rated output voltage of 10V-60V.

**Key Features** 

- High-efficiency performance meets CA T20 battery charger efficiency standards.
- UL Listed (UL924/UL1310) for factory and field installations.
- Patented constant power design maintains illumination throughout the 90-minute runtime with no light degradation.
- Two-wire universal AC input.
- Output Class 2 compliant.
- Six mounting configurations available.
- · Long life high temperature Ni-Cad battery.
- Includes single-piece TBTS test switch and charge indicator accessory kit.
- Meets or exceeds all NEC, IBC, and Life Safety Code Emergency Lighting requirements.



Ways the Right Choice!

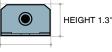
### **Specifications**

Input Voltage	(Universal) 120-277VAC. 50/60Hz
Input Rating (120V/277V)	
Output Voltage <sup>1</sup>	
Output Current	
Output Power	10 Watts (constant)
Max. AC Driver Output Current	3Adc
Power Factor	≥ 0.9 at 120VAC²
Surge Protection	Meets ANSI/IEEE C62.41.2-2002
Emergency Operation	90 minutes
Operating Temp	0° to 55° C
THD	
Battery	High Temp Nickel-Cadmium
	24 Hour Recharge
	7-10 Year Life Expectancy
Weight	(-A, -R) 4.0 lbs.
	(-B, -TM) 3.5 lbs.
	(-J, -R-J) 3.75 lbs.
Certifications	cUL Listed for factory and field installation
	CA T20 Appliance Efficiency Database
1. Max. output voltage in emergency mode is	

(mounting center 15.0") LENGTH: 15.37"

ILB-CP10-HE-A: 15.37" x 2.24" x 1.30"

MOUNTING CENTER: 15.0



1. Max. output voltage in emergency mode is 58.5 VDC with a + tolerance of 1.5 volts 2.  $PF \ge 0.85$  at 277VAC

#### **Emergency Lumen Performance - ILB-CP10-HE**

Approx. Luminaire Efficacy	Minute 1	Minute 45	Minute 90
100 lm/W	1000	1000	1000
110 lm/W	1100	1100	1100
120 lm/W	1200	1200	1200
130 lm/W	1300	1300	1300

TEG1 012420



### ILB-CP12A - Constant Power LED Emergency Driver

The ILB-CP12 from IOTA Engineering is a UL

Listed and Classified LED emergency driver

that allows the same LED fixture to be used

for both normal and emergency operation.

In the event of a power failure, the ILB-CP12

switches to the emergency mode and operates

the existing fixture for 90 minutes. The unit

contains a battery, charger, and converter

circuit in a single can and is available in different

mounting configurations for individual fixture

requirements. The ILB-CP12 will operate an

LED array load at 12 watts with constant power

at a rated output voltage of 10V-60V.

#### Overview

**Key Features** 

- UL Listed (UL924/UL1310) for factory and field installations.
- Patented constant power design maintains illumination throughout the 90-minute runtime with no light degradation.
- Two-wire universal AC input.
- Output Class 2 compliant.
- Six mounting configurations available.
- Long life high temperature Ni-Cad battery.
- Includes single-piece TBTS test switch and charge indicator accessory kit.
- Meets or exceeds all NEC, IBC, and Life Safety Code Emergency Lighting requirements.

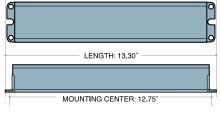


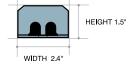
Ways the Right Choice!

### **Specifications**

Input Voltage	(Universal) 120-277VAC 50/60Hz
Input Rating (120V/277V)	
Output Voltage <sup>1</sup>	
Output Current	
Output Power	
Max. AC Driver Output Current	
Power Factor	
Emergency Operation	
Operating Temp	
THD	
Battery	
	24 Hour Recharge
	7-10 Year Life Expectancy
Weight	(-A, -R) 4.0 lbs.
Ŭ	(-B, -TM) 3.5 lbs.
	(-J, -R-J) 3.75 lbs.
Certifications	
	field installation
1. Max. output voltage in emergency mode is	

ILB-CP12-A: 13.3" x 2.375" x 1.5" (mounting center 12.75")





1. Max. output voltage in emergency mode is 58.5 VDC with a + tolerance of 1.5 volts

#### **Emergency Lumen Performance - ILB-CP12**

Approx. Luminaire Efficacy	Minute 1	Minute 45	Minute 90
100 lm/W	1200	1200	1200
110 lm/W	1320	1320	1320
120 lm/W	1440	1440	1440
130 lm/W	1560	1560	1560

TEG1 012420

#### Accessories

## IP710-LFZ - Leviton® Wall Control Slide Dimmer

#### **Overview**

Leviton offers many products that will help lower electrical costs and add convenience to everyday living. By simply replacing standard switches with dimmers reduces energy consumption and extends bulb life. IllumaTech Preset Dimmers feature a low-profile fluid slide bar movement for fine adjustment of light levels or fan speeds that's accompanied by an easy-to-use ON/OFF preset switch. The switch provides quick ON/OFF control without disturbing your favorite pre-selected settings. Most feature a built-in LED locater light, as well.

### **Specifications**

Switch Type: Single-Pole & 3-Way Style Name: IllumaTech Type: Electro-Mechanical Load Type: Electronic 0-10VDC 0-10VDC LED Power Supply Load Rating: 1200VA Voltage: 120/277 Volt AC 60Hz Action: Standard ON/OFF Protection: Radio/TV Filter Color: White Ivory Light Almond Standards and Certifications: UL/CSA

#### Key Features -

- 1200VA, 120/277 Volt AC 60Hz
- Single-Pole & 3-Way
- IllumaTech Preset Electro-Mechanical Electronic 0-10VDC LED Power
- Supply Dimmer White face assembled on device. Ivory and Light Almond available.





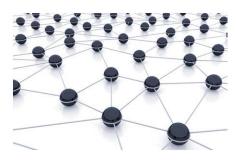




Smart Blu™ Bluetooth Lighting Control



Simple, Affordable, and Effective Bluetooth Lighting Control iOS and Android Compatible APP



SMART BLU<sup>™</sup> is a wireless lighting control system that utilizes Bluetooth 4.0 Mesh Network technology to transmit lighting control data from a smartphone to Lights & Switches (**Nodes**). Nodes cooperate in the transmission of data to ensure integrity.

SMART BLU<sup>™</sup> enables significant power and maintenance savings for LED lighting through simple automation processes while allowing for individual freedom to adjust as necessary.

Mesh Networks (**Zones**) can range from 1 to 100 Nodes maximum. Buildings may be divided into many different Zones with each having it's own distinct encryption and QR Code. For example, a School may have classrooms, corridors, gym and offices



divided into Zones. An Office Tower could have each floor divided into open area, perimeter offices, meeting rooms and reception Zones.

Nodes consist of Lights, Switches, & Gateways. Lights may include onboard motion detectors and daylight photo sensors.

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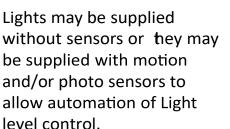
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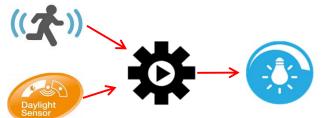


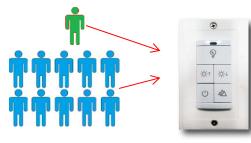
## Smart Blu<sup>™</sup> Bluetooth Lighting Control (Cont.)



Lights may be offered in <u>one</u> color (monodimmable) or in <u>two</u> colors (2-chanrel dimmable). 2-channel Lights may be color-tuned anywhere from very warm to very cool.

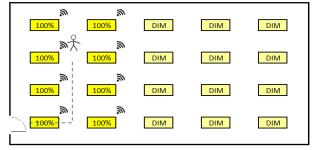


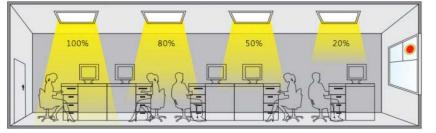




Lights may be controlled individually or in Groups. They can be set to operate automatically via sensors and/or respond to manual switches or smartphones.

Lights may also be linked such that if one Light motion sensor is tripped, all other Lights in the Group respond in unison thus making the whole space appear lit and less foreboding.





Daylight Harvesting is taking advantage of natural light that enters an interior space through windows by

adjusting artificial lighting to save power. SMART BLU<sup>™</sup> can dim Lights closest to windows lower than Lights further away from windows.



Smart Blu™ Bluetooth Lighting Control (Cont.)



A R I Automation Defaults

SMART BLU<sup>™</sup> incorporates Motion and Photo detectors. Motion detectors sense the presence of people and Photo detectors measure light levels. When enabled, these detectors can automatically make light level adjustments within a space without requiring manual adjustments by the occupants. The idea is to Automatically provide the right amount of light when it is needed and to dim or shut lights Off when it is not. The purpose of making automatic adjustments is to **save on energy and maintenance costs**.

SMART BLU<sup>™</sup> allows you to set Automation Defaults (Brightness, and Motion/Photo Detectors) for individual Lights or Groups of Lights. These may be disabled by choosing static Scenes via the APP or from physical Switches.

Automation Defaults may be set in two different sections of the APP; "Lights" and "Groups". **NOTE: If you set an Automation Default in one** section, then alter the settings in another section, the LAST settings you make will be expressed by the system.

An Automation icon vill appear in the following sections where it applies.



Scenes may becreated with Groups and/or Individual Lights by adjusting brightness levels and color temperature (if available). Consider meeting rooms or classrooms when presentations are given and you wish to dim the light to view a smartboard or TV but still wish to provide light on the presenter.

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