



Always the Right Choice!

TDK

LED Troffer Retrofit Kit



Key Features

- An aesthetically pleasing LED recessed troffer ideal for new construction or retrofit applications; 1x4 and 2x4 models.
- Designed for 1" wide T-bars.
- Optional integrated motion sensor with daylight harvesting (Smart Blu™).
- BAA-compliant model available.

Electrical

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

Mounting

- Lightweight and easy to install in standard T-Grid ceilings.
- Accessory kit available for 1/2" wide T-bars.
- Surface mounting optional with mounting kit accessory (sold separately).

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 Ten-Year Warranty.

| Project | Date |
|---------|------|
|---------|------|

| Catalog Number | Type |
|----------------|------|
|----------------|------|

Product Performance Summary

| | |
|----------------------|--|
| 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 | Ten-Year Warranty |

Product Overview

The TDK retrofit kit easily and efficiently converts existing fluorescent troffers to LED technology. The LED technology ensures long-term performance and will reduce energy consumption. By utilizing the existing fixture housing, the lensed kit comes completely assembled right out of the box to quickly perform the change out in minutes without disturbing the ceiling.

Product Applications

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

Product Certifications

- CSA Listed
- Complies with UL1598 and CSA 22.2
- Suitable for indoor damp locations
- BAA/TAA Compliant
- RoHS compliant



Example: TDK1-1-22-UNVL-25-1-50

Ordering Information

| Series | Variant | Size | Input Voltage | Power | Driver | CCT | EM Back-up | Air Return | Compliance |
|--------|--------------------------|--------|---------------|--|------------------------|----------|------------|------------|---|
| TDK1 | 1 Standard (No Controls) | 14 1x4 | UNVL 120-277V | 21 21W | 1 Philips Driver 0-10V | 30 3000K | Blank None | Blank None | BAA Buy-American Act Compliant ⁴ |
| | | 24 2x4 | | 25 25W | | 35 3500K | | | |
| | 2 iNFINi Driver 0-10V | 30 30W | 40 4000K | BU Integrated Battery Back-Up ³ | AR Air Return Venting | | | | |
| | | 40 40W | 50 5000K | | | | | | |
| | | 50 50W | | | | | | | |

| Series | Variant | Size | Input Voltage | Power | Driver | CCT | EM Back-up | Air Return | Compliance |
|--------|------------|--------|---------------|--------|--------------------|--|------------|------------|---|
| TDK1 | 1 Standard | 14 1x4 | UNVL 120-277V | 29 29W | 3 Blu-Drive Driver | T 2700K-6500K | Blank None | Blank None | BAA Buy-American Act Compliant ⁴ |
| | | 24 2x4 | | 30 30W | | BU Integrated Battery Back-Up ³ | | | |

| Accessories | |
|--------------|---|
| TDK-SMK-1-14 | 1x4 Surface Mount Kit |
| TDK-SMK-1-24 | 2x4 Surface Mount Kit |
| DW-14-GB | 1x4 Drywall Flange Kit |
| DW-24TX | 2x4 Drywall Flange Kit |
| TDK1-24-NGR | 1x4/2x4 1/2" Wide T-Bar |
| TDK1-2XCA | 2x4 - 2 ft. Lift Rail for Earthquake Zones |
| TDK1-1XCA | 1x4 - 1 ft. Lift Rail Kit for Earthquake Zones |
| ILB-CP10A-HE | Constant Power High Efficiency LED Emergency Driver |
| ILB-CP12A | Constant Power LED Emergency Driver |
| IP710-LFZ | Leviton® Wall Control Dimmer |

1. 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 guide for expected LED degradation and not a warranty or predictive of their actual life, which can be affected by ambient temperatures and other factors.

2. Canadian 347VAC available upon request, but not DLC Listed.

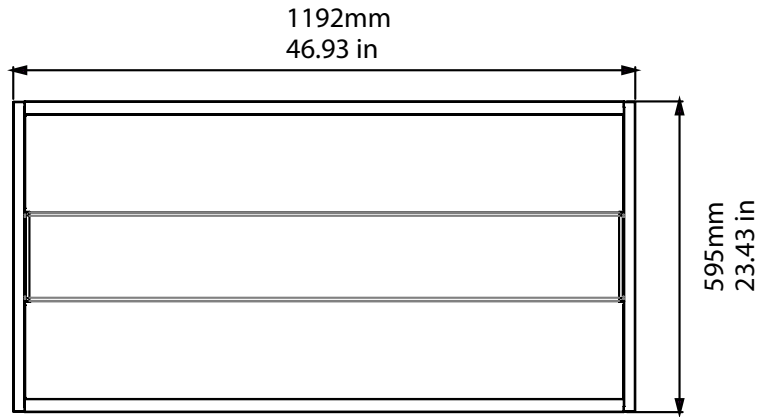
3. Battery Back-Up Option [B] only available in 2x4 sizes.

4. BAA-compliant TDK in-stock configurations are subject to change at any time. Please contact our customer service team for the most recent list of stocked configurations.

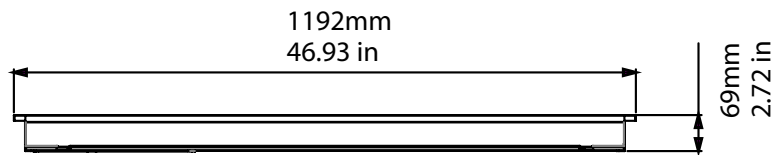
Dimensions

| Model | Net Weight |
|-------|-----------------|
| 1x4 | 9 lbs. (4.1kg) |
| 2x4 | 13 lbs. (5.9kg) |

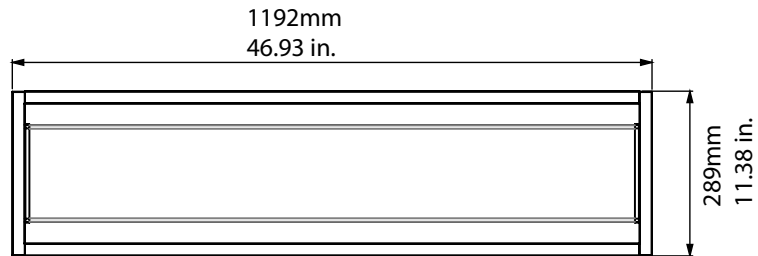
1x4 & 2x4 Models (Bottom View)



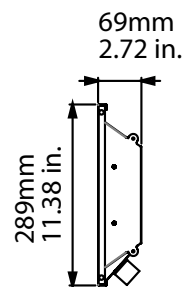
2x4 Model (Side View)



1x4 Model (Bottom View)



1x4 Model (End View)



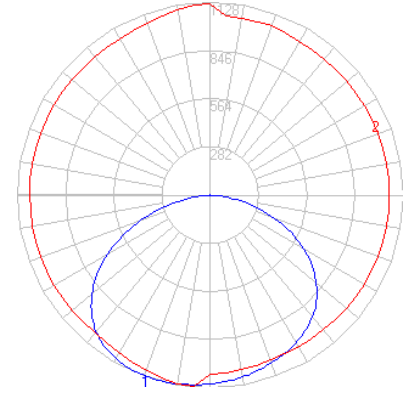
Performance Data

Luminaire Photometric Data

| | |
|-------------------|---|
| Model Number | TDK1-1-24-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 | 143 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 | CCT | L70 Calculate Life | L85 Calculate Life |
|------------------------|--------------------|------------------|----------|-------|--------------------|--------------------|
| TDK1-1-14-UNVL-25-1-30 | 25.3W | 3,220L | 125 LPW | 3000K | 161,000 Hours | 75,000 Hours |
| TDK1-1-14-UNVL-25-1-35 | 25.3W | 3,230L | 129 LPW | 3500K | 161,000 Hours | 75,000 Hours |
| TDK1-1-14-UNVL-25-1-40 | 25.3W | 3,390L | 135 LPW | 4000K | 161,000 Hours | 75,000 Hours |
| TDK1-1-14-UNVL-25-1-50 | 25.3W | 3,320L | 132 LPW | 5000K | 161,000 Hours | 75,000 Hours |
| TDK1-1-14-UNVL-30-1-30 | 30.6W | 3,760L | 123 LPW | 3000K | 161,000 Hours | 75,000 Hours |
| TDK1-1-14-UNVL-30-1-35 | 30.6W | 3,870L | 126 LPW | 3500K | 161,000 Hours | 75,000 Hours |
| TDK1-1-14-UNVL-30-1-40 | 30.6W | 3,910L | 128 LPW | 4000K | 161,000 Hours | 75,000 Hours |
| TDK1-1-14-UNVL-30-1-50 | 30.6W | 3,980L | 130 LPW | 5000K | 161,000 Hours | 75,000 Hours |
| TDK1-1-24-UNVL-25-1-30 | 24.7W | 3,370L | 135 LPW | 3000K | 161,000 Hours | 75,000 Hours |
| TDK1-1-24-UNVL-25-1-35 | 24.7W | 3,320L | 135 LPW | 3500K | 161,000 Hours | 75,000 Hours |
| TDK1-1-24-UNVL-25-1-40 | 24.7W | 3,330L | 137 LPW | 4000K | 161,000 Hours | 75,000 Hours |
| TDK1-1-24-UNVL-25-1-50 | 24.7W | 3,520L | 141 LPW | 5000K | 161,000 Hours | 75,000 Hours |
| TDK1-1-24-UNVL-30-1-30 | 30.5W | 3,680L | 120 LPW | 3000K | 161,000 Hours | 75,000 Hours |
| TDK1-1-24-UNVL-30-1-35 | 30.5W | 3,800L | 125 LPW | 3500K | 161,000 Hours | 75,000 Hours |
| TDK1-1-24-UNVL-30-1-40 | 30.5W | 3,830L | 126 LPW | 4000K | 161,000 Hours | 75,000 Hours |
| TDK1-1-24-UNVL-30-1-50 | 30.5W | 3,910L | 128 LPW | 5000K | 161,000 Hours | 75,000 Hours |

Accessories

TDK-SMK-1-14 1x4 Surface Mount Kit

TDK-SMK-1-22 2x2 Surface Mount Kit

TDK-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.

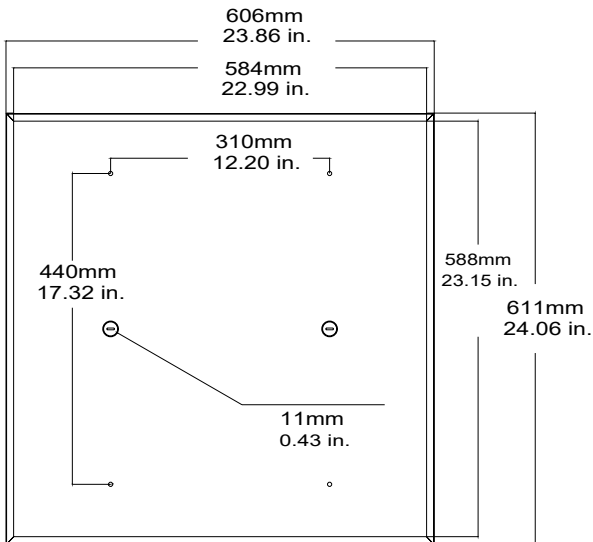
Key Features

- 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.

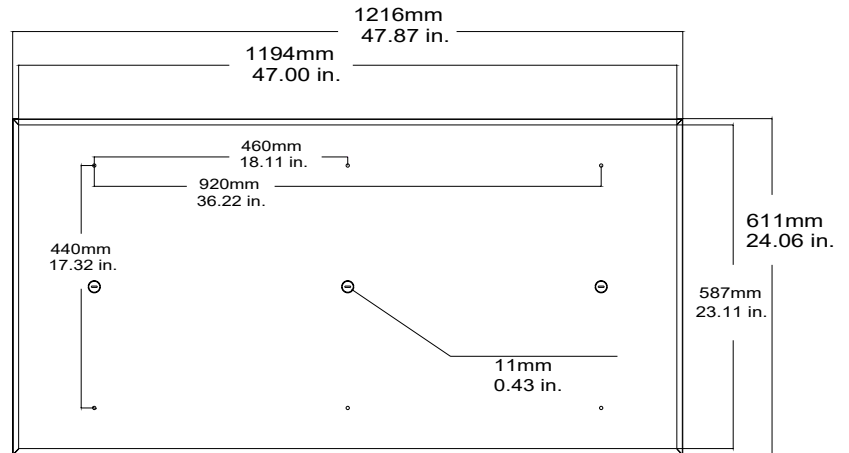


Specifications

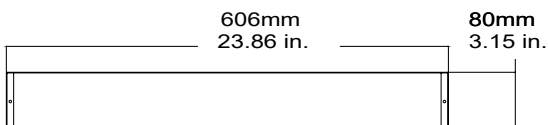
2x2 (Top View)



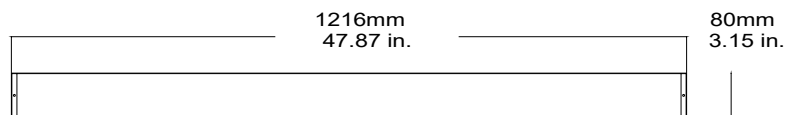
2x4 (Top View)



2x2 (Side View)



2x4 (Side View)



Accessories

DW-14-GB 1x4 Drywall Flange Kit

DW-22TX 2x2 Drywall Flange Kit

DW-24TX 2x4 Drywall Flange Kit

Overview

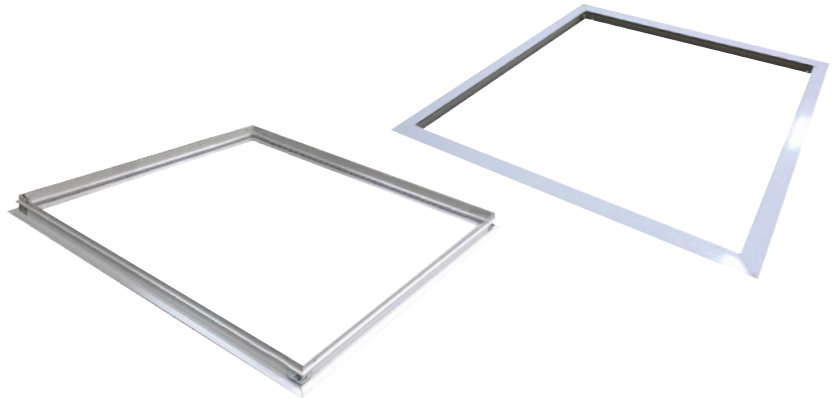
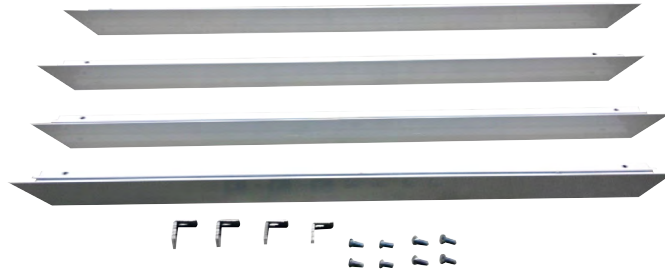
Drywall flange kits act as T-Bar frames to support recessed troffer luminaires in wood, drywall, or plaster ceilings. From the room side, flange kits mimic the appearance of T-Bars in a baked white enamel finish.

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"

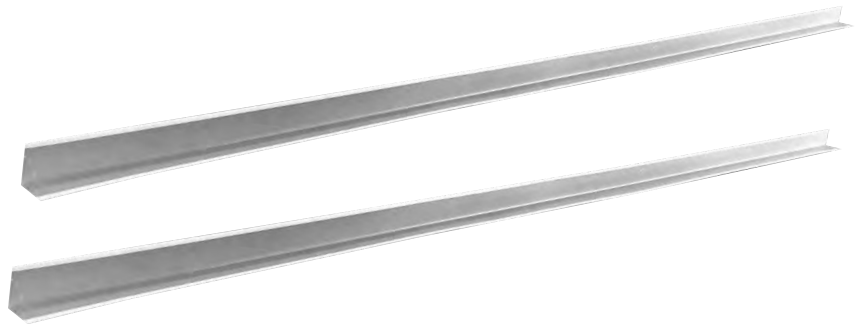


TDK1-NGR-24 1x4/2x4 1/2" Wide T-Bar Kit

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.



ILB-CP12A - Constant Power LED Emergency Driver

Overview

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.

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.

