

TCK

LED Recessed Troffer Retrofit Kit



Key Features

- Energy-efficient LED retrofit kit for existing recessed fluorescent luminaires.
- Available in 2x2 or 2x4 models.
- One-piece kit facilitates easier installation right out of the box.

Electrical

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

Mounting

- Installs in existing recessed troffers without disturbing the ceiling mounting.
- 12" tether included for safe handling during kit installation.

Construction

- Pre-painted white finish is highly reflective and optimized for uniform light distribution.
- Polycarbonate diffusing lens covers are designed to maximize lumen output and minimize glare.

Optics

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

Warranty

- Backed by National LED's 7-year warranty.

Ordering Information

TCK1												
Series	Variant	Size		Input Voltage		Power		Driver	CCT			
	1	Standard	22	2x2	UNVL	120-277V	18	18W	2	iNFiNi Driver 0-10V	30	3000K
			24	2x4			25	25W			35	3500K
							30	30W			40	4000K
											50	5000K

Size/Power Combinations

Size	Available Power
2x2	18W, 25W
2x4	25W, 30W

1. 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.

Project	Date
Catalog Number	Type

Product Performance Summary

Lumen Output	Up to 4,050 lumens
Efficacy	Up to 140 LPW
CRI	≥ 80 CRI
Available CCT	3000K, 3500K, 4000K or 5000K
Warranty	7-Year Warranty

Product Overview

The TCK LED retrofit kit is the perfect solution for converting existing 2x2 or 2x4 fluorescent recessed troffers to highly efficient LED technology. With improved quality of light, this one-piece kit instantly refreshes any space and delivers the energy savings you're looking for. The TCK has been thoughtfully engineered to facilitate easier installation right out of the box. The TCK can also be ordered with diffusing lens covers for parabolic troffers.

Product Applications

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

Product Certifications/Approvals

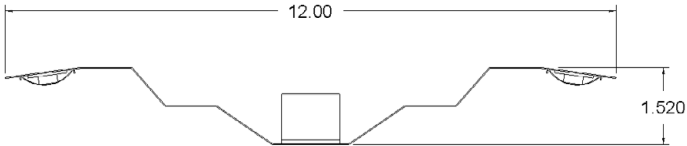
- CSA Listed
- Complies with UL1598 and CSA 22.2
- DLC Premium Listed
- Suitable for indoor damp locations
- RoHS compliant



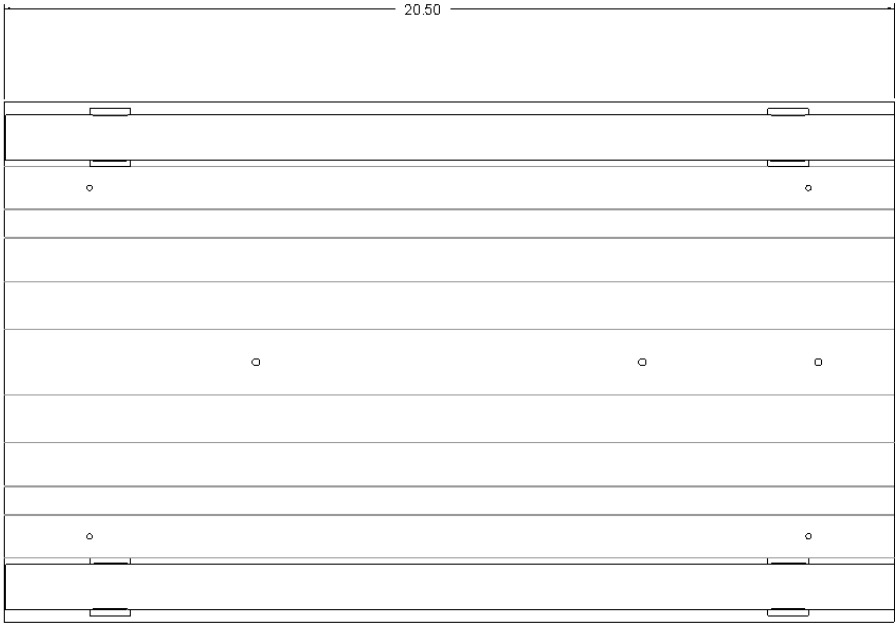
Example: TCK1-1-22-UNVL-18-2-50

Dimensions

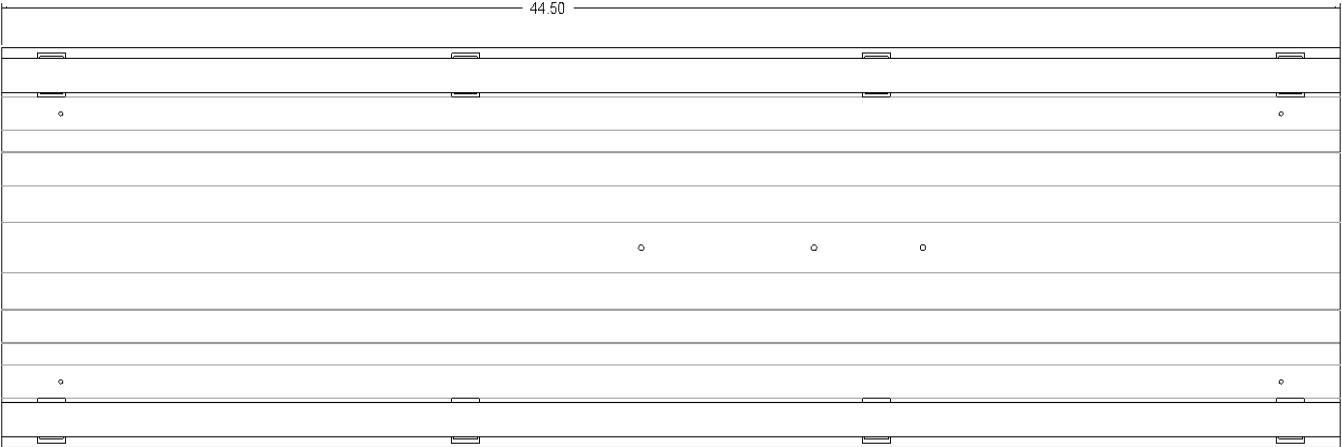
Model	Net Weight
2x2	2.2 lbs. (0.9kg)
2x4	4.0 lbs. (1.8kg)



Top View
(2x2 Model)



Top View
(2x4 Model)



Performance Data ²

Model	System Level Power	Delivered Lumens	Efficacy	CCT	L70 Calculate Life	L85 Calculate Life
TCK1-1-2-UNVL-18-2-30	18.5W	2,300L	124 LPW	3000K	161,000 Hours	75,000 Hours
TCK1-1-2-UNVL-18-2-35	18.5W	2,330L	126 LPW	3500K	161,000 Hours	75,000 Hours
TCK1-1-2-UNVL-18-2-40	18.5W	2,360L	127 LPW	4000K	161,000 Hours	75,000 Hours
TCK1-1-2-UNVL-18-2-50	18.5W	2,410L	130 LPW	5000K	161,000 Hours	75,000 Hours
TCK1-1-2-UNVL-25-2-30	25.2W	3,080L	122 LPW	3000K	161,000 Hours	75,000 Hours
TCK1-1-2-UNVL-25-2-35	25.2W	3,090L	123 LPW	3500K	161,000 Hours	75,000 Hours
TCK1-1-2-UNVL-25-2-40	25.2W	3,100L	123 LPW	4000K	161,000 Hours	75,000 Hours
TCK1-1-4-UNVL-25-2-30	24.5W	3,150L	129 LPW	3000K	161,000 Hours	75,000 Hours
TCK1-1-4-UNVL-25-2-35	24.5W	3,190L	130 LPW	3500K	161,000 Hours	75,000 Hours
TCK1-1-4-UNVL-25-2-40	24.5W	3,220L	131 LPW	4000K	161,000 Hours	75,000 Hours
TCK1-1-4-UNVL-25-2-50	24.5W	3,300L	135 LPW	5000K	161,000 Hours	75,000 Hours
TCK1-1-4-UNVL-30-2-30	30.0W	3,750L	125 LPW	3000K	161,000 Hours	75,000 Hours
TCK1-1-4-UNVL-30-2-35	30.0W	3,790L	126 LPW	3500K	161,000 Hours	75,000 Hours
TCK1-1-4-UNVL-30-2-40	30.0W	3,830L	128 LPW	4000K	161,000 Hours	75,000 Hours
TCK1-1-4-UNVL-30-2-50	30.0W	3,920L	131 LPW	5000K	161,000 Hours	75,000 Hours

². Performance data is for conversion kit installed in a retrofitted fixture with prismatic diffuser and without the TCK diffuser.