



# **Led Human Centric Troffer Retrofit Kit 2X2**

**Draft Version**



## Healthy Natural Light For People In Any Indoor Environment

ABOVE ALL Human Centric LED Light Troffer Retrofit Kit is specially designed to create comfortable, healthy, and natural light for people. Ideal for nursing home residences, office workers, retail shoppers, patients in hospitals, children and adults in schools and any people in pursuit of a high quality healthy natural lighting environment. The Human Centric Troffer Retrofit Kit utilizes 2.4G RF dimming which is a true non flicker technology to maintain eye health. The intelligent software tools enable the user to schedule and manage the Human Centric LED Troffer Retrofit Kit to provide dynamic natural color temperature to fit circadian rhythm.

The ABOVE ALL Human Centric Troffer Retrofit Kit can be easily installed like any other fixture without need for additional wiring and can be controlled by a remote control, smart-phone, or tablet with the available APP. The Human Centric Troffer Retrofit Kit can be set to automatically adjust the Kelvin temperature to mimic the natural light throughout the day with the preset natural lighting scene. As time moves forward throughout each day the Kelvin temperature changes as well. The ABOVE ALL Human Centric LED Troffer Retrofit Kit is designed to bring that same subtle Kelvin change throughout the day to your indoor environment. Many studies can be cited that conclude that natural light is healthy light and the Human Centric LED Troffer Retrofit Kit brings that healthy light to your indoor applications.

## Create Your Own Comfort

Choose from one of many preset scenes such as Sunrise/ Sunset which brings a rich warm glow of light that brightens over a short period as the color cools. Or choose the “Best Light for Reading” scene which produces a very bright 4100K, or the “Best Light for Working Under” whether typing on the laptop or knitting a new blanket this scene generates a cool 5000K and turns the intensity way up. The “Night Light” scene creates a very faint glow that leaves enough light for one to find their way at night without too much light to interfere with one’s rest. A “Home Theater” scene with theater like illumination to enjoy your favorite film. The energy saving “Day Light Harvesting” scene utilizes the camera on your smart phone or tablet to set the ideal light level. As natural sunlight supplies the foot candles the Human Centric Troffer Retrofit Kit dims the Troffer Retrofit Kit accordingly. As the sun sets the Troffer Retrofit Kit brighten so the foot candles are maintained. Create your own scenes that effect Kelvin, light intensity or dimming level over a duration of time. Make the scenes to create the mood that suits you. Control a single fixture, a single room or all the Troffer Retrofit Kit in home or office, a whole hospital floor or just a small area. The dimming range is from 1% to 100%, the Kelvin adjustment from 2700K to 6500K and can be adjusted any time or create programmable preset scenes to suit your needs.

## PERFORMANCE DATA

### LUMEN OUTPUT

Lumen values are measured by third party certified laboratories performed in accordance with IESNA LM-79-08 as well as Lighting Facts listed.

Watts	Lumen Output	AC Input 120V	Measured Watts	CRI	Dist. Type	LPW
18W	1830	0.17A	18W	>80	N/A	102
25W	2550	0.23A	25W	>80	N/A	102
32W	3250	0.29A	32W	>80	N/A	102

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the LED troffer retrofit kit in a 77°F ambient, (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

### Lumen Ambient Temperature (LAT) Multipliers

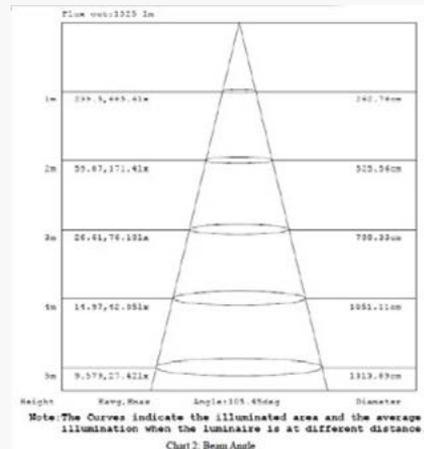
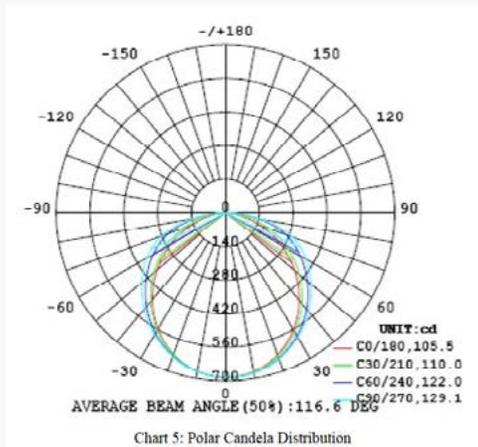
Use these factors to determine relative lumen output for average ambient temperature from -4-104°F (-20-40°C)

Ambient		Multiplier
Celsius	Fahrenheit	
0	32	1.02
10	50	1.01
20	68	1.00
25	77	1.00
30	86	1.00
40	104	0.99

Operating Hours	0	10,000	15,000	25,000	85,000
	Lumen Maintenance Factor	1.0	0.98(L98)	0.96(L96)	0.92(L92)

### Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory.



# 18W

## CONTROL OPTIONS

- Adjustable Color Temperature(2700~6500K)
- 2.4G RF Dimming, "True No Flicker"
- Fade-in dimming
- Programmable preset CTs and scenes
- Remote Controller and APP controller
- Dynamic natural color temperature curve

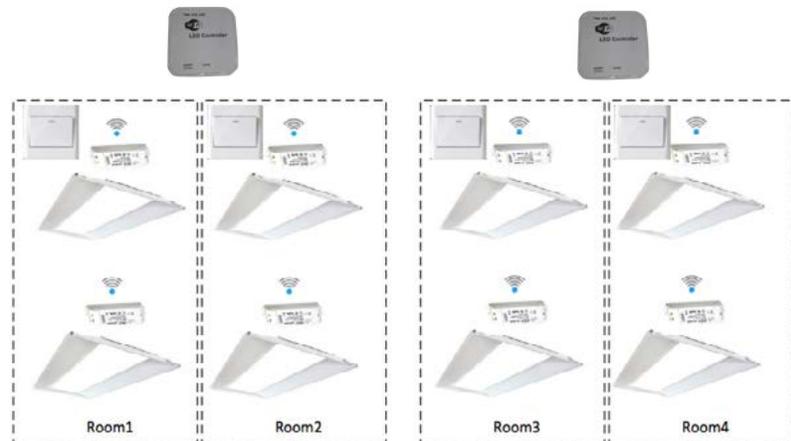
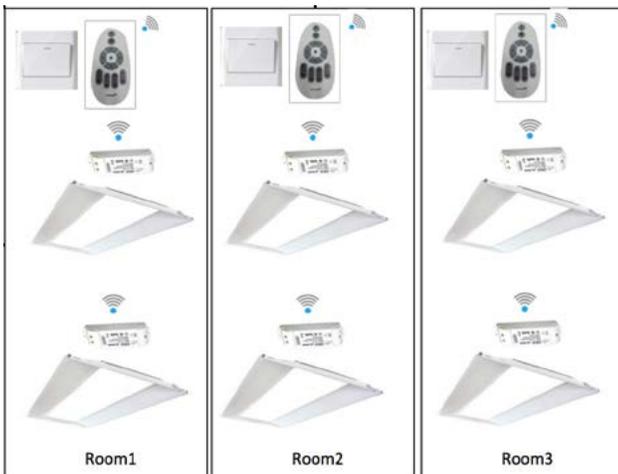


### Application Remote Controller Control System

- ON/OFF with wall switch or remote controller
- 2.4G RF Dimming and CT control with remote controller

### Wi-Fi Gateway Centric Control System

- ON/OFF with wall switch or remote controller
- Dynamic CT control by gateway



### Wi-Fi + Tablet Control System

- Scene control by tablet
- 2.4G RF Dimming and CT control with remote controller



## PRODUCT SPECIFICATIONS

### ELECTRICAL SYSTEM

- Input Voltage: 120-277V
- 50/60Hz
- 2.4G RF dimming, CCT changing from 2700K-6500K
- Class II drivers
- Minimum Ambient -20°C, maximum 40°C
- Power Factor: > 0.98 at full load
- Total Harmonic Distortion: < 20% at full load

System Wattage	Max THD (%)	Power Factor	Power Efficiency	Replaces/ Equiv.(FL)
18W	20	>0.98	85%	2 F17T8
25W	20	>0.98	85%	3 F17T8
32W	20	>0.98	85%	4 F17T8

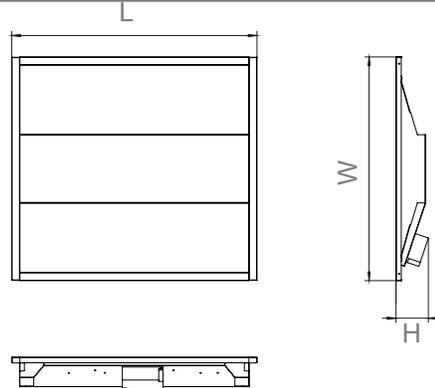
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### CERTIFICATIONS AND QUALIFICATIONS

- ETL in process
- Suitable for dry or damp locations
- RoHS compliant

## SPECIFICATION

2X2  
 Length: 22.56"  
 Width: 20.59"  
 Height: 2.97"  
 Max. Weight: 12 lbs



### Ordering Information

**Example: TRK22G18ACT**

Troffer Retrofit Kit	Dimension	Dimmable	Watts	All Color Temperatures
TRK	22- 2'x2'	G - 2.4G RF Dimmable	18 - 18 Watts 25 - 25 Watts 32 - 32 Watts	ACT - 2700K - 6500K

Notice:

1. Standard Finish as White.
2. Special Order as other finish color - Ask Customer Service for Details.

### Warranty

Five year limited warranty. Full warranty terms located at [www.abovealllighting.com/warrantystatements](http://www.abovealllighting.com/warrantystatements)

**Note:** Specifications subject to change without notice.