



SLTR - LED TROFFER RETROFIT KIT

Project:	
Type:	
Note:	

DESCRIPTION

The Starco SLTR LED Troffer Retrofit Kit combines high efficiency (150 LPW) with versatility, offering 4 power settings and 5 selectable CCT options. Built with durable aluminum housing and a frosted PMMA lens, it delivers soft, uniform illumination ideal for modern spaces. UL listed for damp locations and featuring a 0-10V dimming driver, this kit ensures energy savings, long-lasting performance, and easy integration into existing fixtures.



SPECIFICATION FEATURES

Construction & Materials

- Luminaire housing are die formed of 22 code gauge prime cold rolled steel
- Extruded acrylic lens features linear prisms
- Extruded aluminum heatsink maximizes LED lifetime and optimal performance
- Light weight design allows for a less obtrusive installation

Electrical System

- High efficiency driver
- Input Voltage: 120-277V, 50/60Hz
- Operating Temperature: -20°C (-4°F) to 50°C (122°F)
- 0-10V Continuous dimming
- Power Factor: >0.90
- Total Harmonic Distortion: <15%
- Wireless Driver Standby (Off State) Power: >1W

Optical System

- High impact acrylic optics provides even distribution
- Frosted lens provides maximum glare reduction

LED

- CRI: 80+, 90+
- Color Selectable 2700K/3000K/3500K/4000K/5000K
- Color Tunable Range: 3000K to 5000K
- Reported L₃₀ Lifetime: 101,000 hours @25°C
- Reported L₇₀ Lifetime: 349,000 hours @25°C

Warranty

- 10 Years

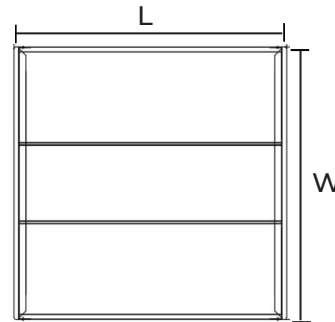
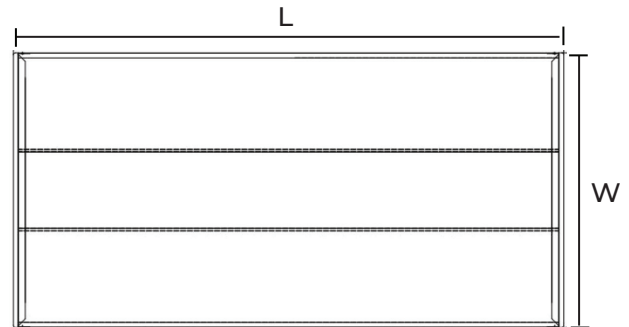
Control & Networking

- Integrated sensor
- Integrated Wireless BLE Sensor
- Integrated Wireless BLE Driver
- Internet/Cloud base remote programming control

Certification

- UL & cUL;
- DLC Premium;

DIMENSION



Model	L	W	H	Weight
1x4	47-3/4" 1213mm	11-3/4" 298mm	2-1/2" 63.5mm	9.8lbs
2x2	23-3/4" 603mm	23-3/4" 603mm	2-1/2" 63.5mm	10.0lbs
2x4	47-3/4" 1213mm	23-3/4" 603mm	2-1/2" 63.5mm	16.5lbs



ORDER INFORMATION

SLTR LED TROFFER RETROFIT KIT

Example: SLTR-24-17/20/30/35-CS-80-SD-HE

SLTR	Size	Wattage	CCT	CRI	Driver	Efficacy
SLTR=LED Troffer Retrofit Kit	14=1x4 22=2x2 24=2x4	15=15W 20=20W 30=30W 35=35W 15/17/20/30= 15/17/20/30W 17/20/30/35= 17/20/30/35W	CS=CCT Selectable 3000K/3500K/ 4000K/5000K/6500K	80=80CRI 90=90CRI 95=95CRI	SD=Standard Driver CCT Selectable, 0-10V Dim	HE=High Efficacy 150 LPW

Options	
<p>Standard Accessories</p> <p>Emergency Inverters EMD-10=10W Emergency Inverter Pack EMD-20=20W Emergency Inverter Pack</p> <p>Dimmers LVDC-A019=Rotary 0-10V Dimmer</p> <p>Switches WMS=Wired 0-10V switch with motion sensor WOS=Wired 0-10V switch</p>	<p>Wireless Accessories</p> <p>Sensors CAP=AC powered wireless PIR motion & light sensor CAM=AC powered wireless microwave motion & light sensor CF=DC powered dual channel PIR motion & daylight sensor</p> <p>Switches CIV=Wireless 4 button switch CTV=Wireless 5 button switch ECV=Wireless 8 button switch MOV=Wireless 1 button switch with motion sensor OSC=Wireless 1 button switch</p> <p>Gateway & Extenders ECHO=Beacon & range extender LINCC=Gateway with ethernet & RTC</p> <p>Emergency Inverters EMDW-10=10W Emergency Inverter Wireless Pack EMDW-20=20W Emergency Inverter Wireless Pack</p>

Emergency Battery Pack Options - Field Installable

Battery Model Number	Wattage	Runtime(minutes)	Lumen Output	Other
EMD(W)-10	10W	90	1300-1500	Self Diagnostic
EMD(W)-20	20W	90	2600-3000	Self Diagnostic

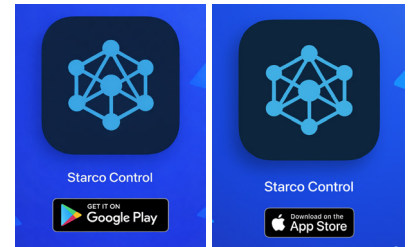
How does the control platform works?

1. Install the SLTR troffer retrofit kit with integrated smart sensor or wireless driver
2. Install the wireless self-powered wall switches
3. With Starco app, pair the troffers with the wall switches and any additional stand-alone sensors
4. Customize the sensor settings and fixture schedules as needed

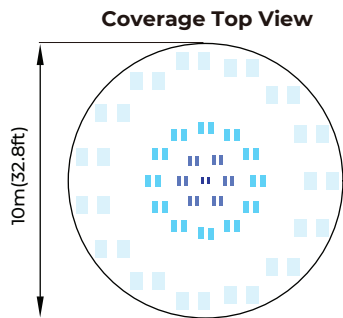
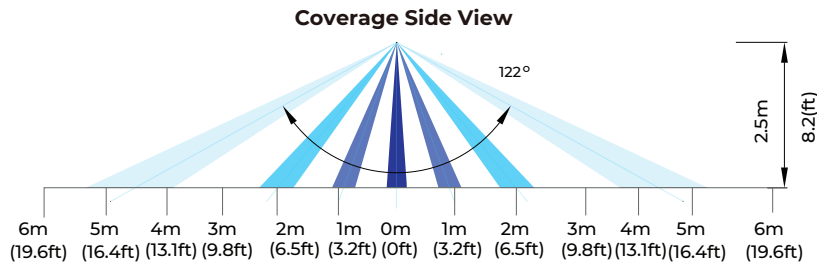


CF Sensor

Bluetooth Wireless Occupancy & Daylight In-Fixture Sensor



Sensor Coverage

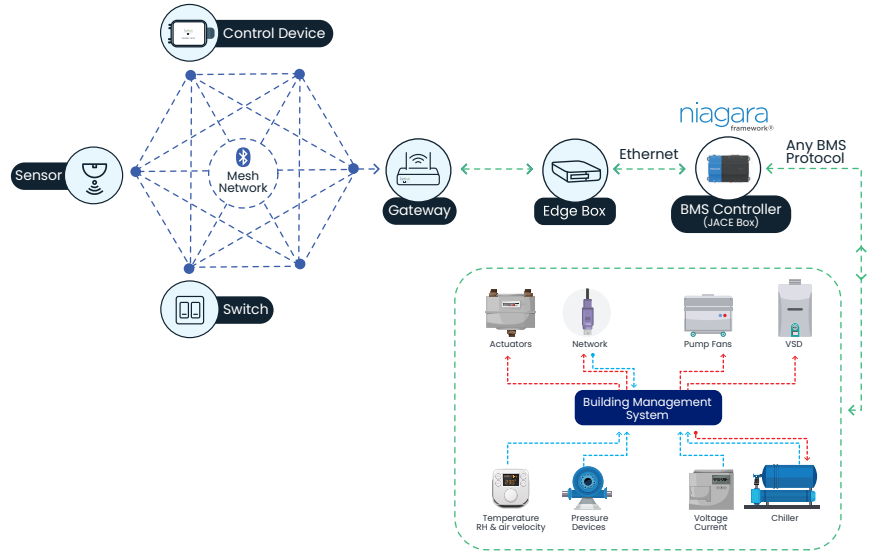


Bluetooth Mesh Features

- **Communication Performance** - Flood management protocols along with optimized communication strategies enable high reliability and performance within the mesh network and to edge interface devices like mobile and web UI.
- **Update Performance** - Unique advertisement based update mechanisms capable of securely updating thousands of devices simultaneously in a couple hours while maintain reliable functionality and performance of the mesh network.
- **Security** - Multi-level security achieved using different keys for device commissioning, communicating within mesh and cloud communication.
- **Time synchronization** - Cloud or real time clock centralized devices provide most cost-effective and reliable time clock management to maintain proper schedules.

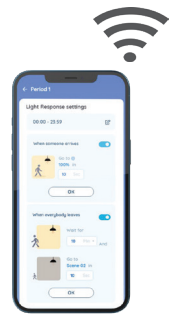
BMS Intergration

- Starco Control ecosystem leverages the Niagara framework to intergrate with any of the 120+ BMS protocols.
- Very simple to connect as plugging the two systems into a common Ethernet network.
- All data can be shared and BMS can monitor and control the lighting system.
- Adding OpendADR gateway, the customer can take advantage of any current or future utility demand response programs including peak pricing, capacity bidding and direct laod control



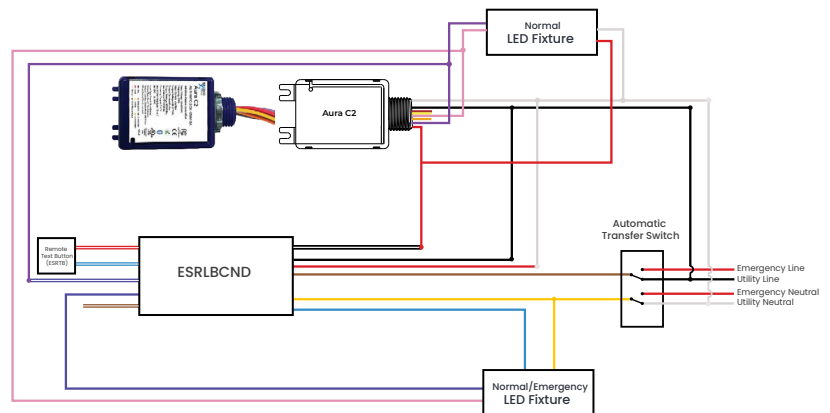
Mobile App

- For commission, configuration and controlling lighting networks including device replacement feature that makes commission easier.
- Setting up schedules, scenes and animations for individual devices or groups or zones
- Always get the latest features and improvements using OTA updates for devices
- Safe and reliable communication with AES 128-bit encryption and ensure safety using 4-digit code



Emergency Lighting Control

- UL924 Listed Aura C1/C2 provides transfer operation during a power outage.
- When there is power outage, the controller will receive power from the emergency source via the ATS. The AC/DC power supply will turn OFF due to power outage and the 0-10V input channel of the controller will not sense any voltage. When the controller detects this, it switches over to Emergency Mode where the fixtures will be lit at 100% intensity for 90 mins.
- The BLE wireless Emergency Inverter interfaces with a battery and LED driver to provide much more than just self-test functionality. It can provide emergency testing reports through the mobile app and also provide fault notifications as soon as one is detect



Radial AF10 - Wire description		
Line (Black)	12VDC (Yellow)	0-10V DIM1+ (Purple)
Neutral (White)	DIM- (Pink)	0-3V Sensor input (Brown)
Load (Red)	0-10V DIM2+ (Orange)	

ESRLBCND - Wire description		
Feedback/Dimmer Contacts	Remote Test Input	
NO (White/Violet)	White/Red	Normal Hot (Black)
C (Violet)	White/Blue	Normal Switched Hot (White/Black)
N/C (White/Brown)		Normal Neutral (Red)
		Emergency Neutral (Yellow)
		Emergency Hot (Brown)
		Emergency Hot to Load (Blue)



High Efficacy

Model	Wattage	CCT	Size	Lumen Output
SLTR-14-15-CS-80-SD-HE	15	3000K	1x4	1950
SLTR-14-15-CS-80-SD-HE	15	3500K	1x4	2000
SLTR-14-15-CS-80-SD-HE	15	4000K	1x4	2050
SLTR-14-15-CS-80-SD-HE	15	5000K	1x4	2100
SLTR-14-15-CS-80-SD-HE	15	6500K	1x4	2150
SLTR-14-20-CS-80-SD-HE	20	3000K	1x4	2800
SLTR-14-20-CS-80-SD-HE	20	3500K	1x4	2850
SLTR-14-20-CS-80-SD-HE	20	4000K	1x4	2900
SLTR-14-20-CS-80-SD-HE	20	5000K	1x4	2950
SLTR-14-20-CS-80-SD-HE	20	6500K	1x4	3000
SLTR-14-30-CS-80-SD-HE	30	3000K	1x4	3950
SLTR-14-30-CS-80-SD-HE	30	3500K	1x4	4000
SLTR-14-30-CS-80-SD-HE	30	4000K	1x4	4050
SLTR-14-30-CS-80-SD-HE	30	5000K	1x4	4150
SLTR-14-30-CS-80-SD-HE	30	6500K	1x4	4200
SLTR-22-15-CS-80-SD-HE	15	3000K	2x2	1950
SLTR-22-15-CS-80-SD-HE	15	3500K	2x2	2000
SLTR-22-15-CS-80-SD-HE	15	4000K	2x2	2050
SLTR-22-15-CS-80-SD-HE	15	5000K	2x2	2100
SLTR-22-15-CS-80-SD-HE	15	6500K	2x2	2150
SLTR-22-20-CS-80-SD-HE	20	3000K	2x2	2800
SLTR-22-20-CS-80-SD-HE	20	3500K	2x2	2850
SLTR-22-20-CS-80-SD-HE	20	4000K	2x2	2900
SLTR-22-20-CS-80-SD-HE	20	5000K	2x2	2950
SLTR-22-20-CS-80-SD-HE	20	6500K	2x2	3000
SLTR-22-30-CS-80-SD-HE	30	3000K	2x2	3950
SLTR-22-30-CS-80-SD-HE	30	3500K	2x2	4000
SLTR-22-30-CS-80-SD-HE	30	4000K	2x2	4050
SLTR-22-30-CS-80-SD-HE	30	5000K	2x2	4150
SLTR-22-30-CS-80-SD-HE	30	6500K	2x2	4200
SLTR-24-20-CS-80-SD-HE	20	3000K	2x4	2800
SLTR-24-20-CS-80-SD-HE	20	3500K	2x4	2850
SLTR-24-20-CS-80-SD-HE	20	4000K	2x4	2900
SLTR-24-20-CS-80-SD-HE	20	5000K	2x4	2950
SLTR-24-20-CS-80-SD-HE	20	6500K	2x4	3000
SLTR-24-30-CS-80-SD-HE	30	3000K	2x4	3950
SLTR-24-30-CS-80-SD-HE	30	3500K	2x4	4000
SLTR-24-30-CS-80-SD-HE	30	4000K	2x4	4050
SLTR-24-30-CS-80-SD-HE	30	5000K	2x4	4150
SLTR-24-30-CS-80-SD-HE	30	6500K	2x4	4200
SLTR-24-35-CS-80-SD-HE	35	3000K	2x4	4760
SLTR-24-35-CS-80-SD-HE	35	3500K	2x4	4900
SLTR-24-35-CS-80-SD-HE	35	4000K	2x4	5000
SLTR-24-35-CS-80-SD-HE	35	5000K	2x4	5150
SLTR-24-35-CS-80-SD-HE	35	6500K	2x4	5200

CCT & CRI Scaling Data

CRI	CCT	OUTPUT	CRI	CCT	OUTPUT	CRI	CCT	OUTPUT
80	5000K	101%	90	5000K	95%	95	5000K	89%
	4000K	100%		4000K	94%		4000K	88%
	3500K	98%		3500K	92%		3500K	87%
	3000K	95%		3000K	90%		3000K	86%
	2700K	94%		2700K	89%		2700K	85%