

Selectable LED Troffer Retrofit Kit

Wattages: 14W,17W,20W,28W ; 20W,28W,34W,41W



WATT/5CCT
FIELD-ADJUSTABLE

The Selectable Troffer Retrofit Kit LED Lighting Series can be widely used for Indoor Excellent for Offices, Hallways, Multipurpose Rooms , Office Buildings, Conference Rooms,super market, store and many other applications.

Lighting controls meet design lights consortium (DLC) networked lighting control system technical requirements, LLLC, Energy Monitoring and High End Trim function.



Features:

- Energy efficient: save up to 80% in energy costs
- High lumen output
- Mercury-free
- Instant-on light
- 50,000 hours at 70% lumen maintenance rated life
- CCT:3000-6500K
- 12Vdc auxiliary dimming
- The 0-10V Dimming type is continuous
- Compatible with most Lutron and Leviton dimmers

Packaging information:

❖ **14RTFD14172028W27-5CCT:**
1266MMX325MMX123MM(2Pcs/CTN)
(49.84" X12.80" X4.84")

❖ **22RTFD14172028W27-5CCT:**
652MMX635MMX133MM(2Pcs/CTN)
(25.67" X25.0" X5.24")

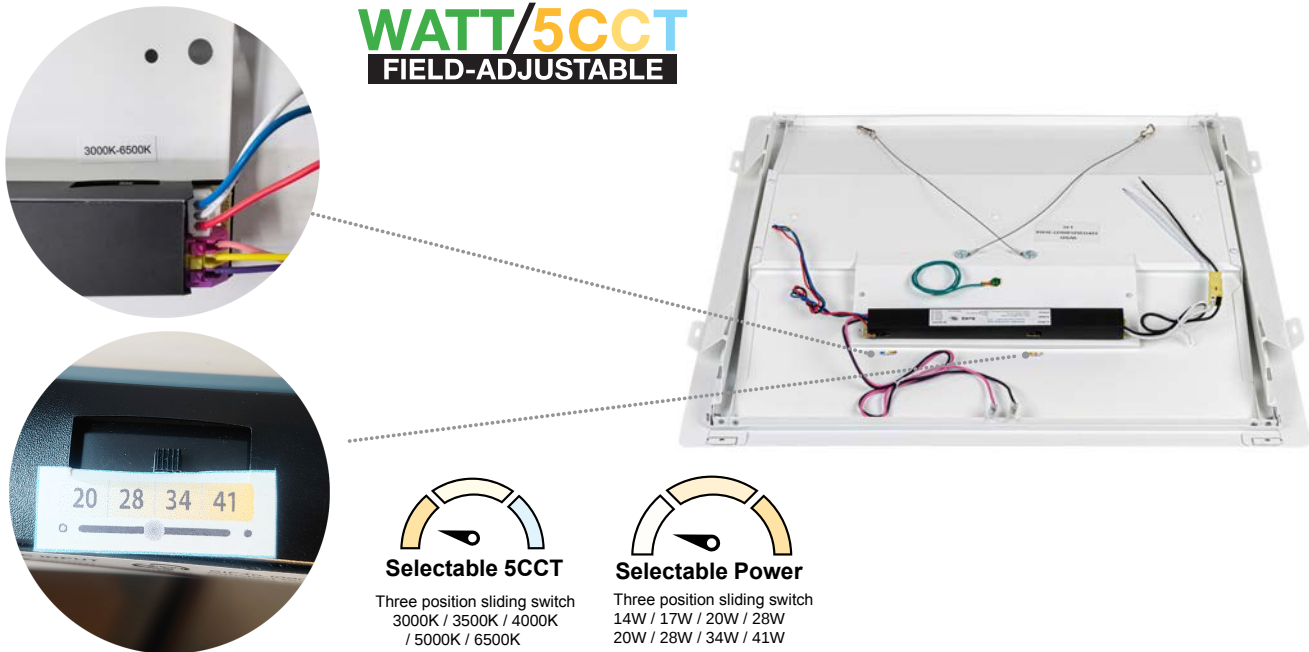
❖ **24RTFD20283441W27-5CCT:**
1269MMX635MMX133MM(2Pcs/CTN)
(49.96" X25.0" X5.24")

SPECIFICATION			
TYPE	14RTFD14172028W27-5CCT	22RTFD14172028W27-5CCT	24RTFD20283441W27-5CCT
WATTAGE	14W/17W/20W/28W	14W/17W/20W/28W	20W/28W/34W/41W
LUMEN	1924 lm/2391 lm/2771 lm/3751 lm	2016 lm/2390 lm/2734 lm/3740 lm	3316 lm/4539 lm/5256 lm/6305 lm
EFFICACY	> 140 lm/W		
CCT	3000K,3500K,4000K,5000K,6500K		
CRI	> 80		
INPUT VOLTAGE	AC120-277V		
LIGHTING ANGLE	113°		
FACTORY SETTINGS	28W & 4000K		41W & 4000K
LED TYPE	SMD2835		
PF	> 0.98		
DRIVER EFFICIENCY	> 90%		
PROTECTION LEVEL	Damp		
LIFE TIME	> 50000 hours		
OPERATING TEMPERATURE	-20°C~-50°C(-4°F~122°F)		
WARRANTY	5 year limited		

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Control Module:



Multiple sensor solutions ready

- Quick and easy in-field installation of sensors.
- Integrated occupancy and daylight controls.

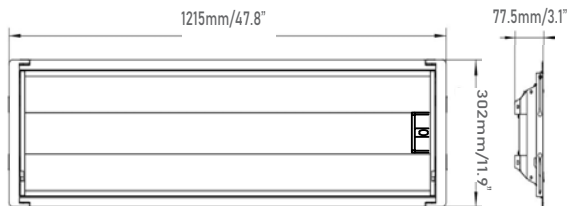


The sensor receptacle is pre-embedded in the profile frame.

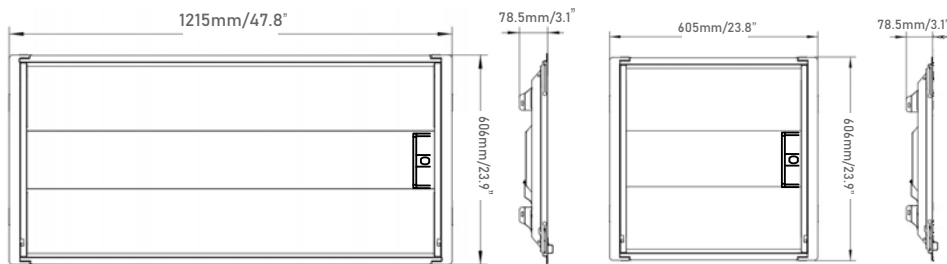
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DIMENSION:



1X4 feet



2X4 feet

2X2 feet

Specifications:

Troffer-14/22/24

Length: 1215MM/605MM/1215MM
(47.8" / 23.8" / 47.8")

Width: 302MM/606MM/606MM
(11.9" / 23.9" / 23.9")

Depth: 77.5MM/78.5MM/78.5MM
(3.1" / 3.1" / 3.1")

Net Weight: 6.90/7.21/11.33 (lbs)

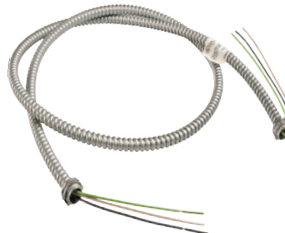
Mounting:

❖ Embedded installation.

ACCESSORIES: (SOLD SEPARATELY)



WSD-EML08W27-XX
WSD-EML15W27-XX
WSD-EML20W27-XX
8W/15W/20W Emergency Backup Battery LED Driver



6FTPRWG-3/8-3PIN / 6FTPRWG-3/8-5PIN
6FTPRWG-3/8-6PIN
6FT 3/8 inch Metal Flexible Conduit

CONTROL (SOLD SEPARATELY)



Bluetooth®
NLC-BT-PIR-SR-001
PIR Bluetooth
Microwave Sensor For
Silvair Systems
(Silvair Bluetooth)



Bluetooth®
NLC-BT-PIR-GE-001
PIR Bluetooth
Microwave Sensor For
GEBC Systems
(GEBC Bluetooth)



NLC-PIR-SQ-001
Bi-Level PIR Infrared
Sensor



RC100
(With NL C-PIR-SQ-001 use)
Remote Controller



BRI-WS20 -GE
4-Button Wireless Wall Switch
(Can only be used for
NLC-BT-PIR-GE-001)

ORDERING INFORMATION:

14RTFD14172028W27-5CCT-E[Blank,M]

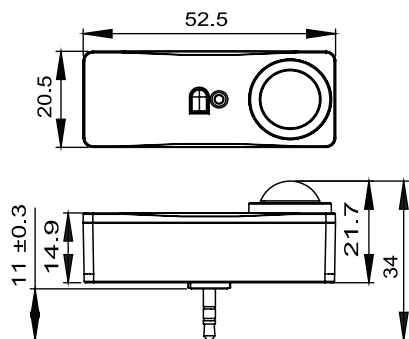
14	RTFD	14172028W	27	5CCT	E
SIZE	PRODUCT	POWER	VOLTAGE	CCT	CONTROL
14 - (1X4feet) 22 - (2X2feet) 24 - (2X4feet)	RTFD LED Troffer Retrofit Kit	14172028/20283441 14W/17W/20W/28W 20W/28W/34W/41W	27 AC120-277V	5CCT 3000K/3500K/4000K /5000K/6500K	M (Motion Sensor)

Sensor Based LED TROFFER LIGHT

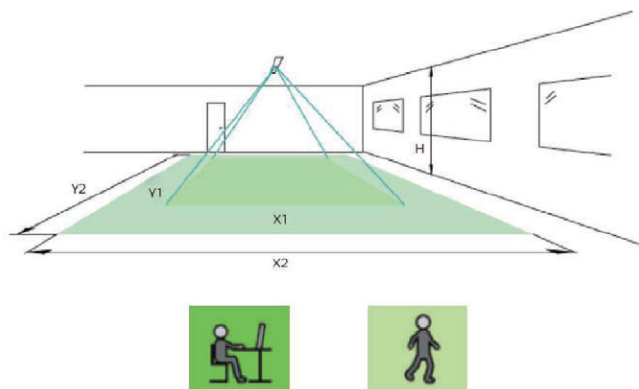
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DIMENSION



COVERAGE



Height H	Minor Movement		Major Movement	
	Y1	X1	Y2	X2
8'/2.4m	10'/2.9m	9'/2.7m	15'/4.5m	9'/2.9m
10'/3m	12'/3.6m	11'/3.4m	18'/5.4m	12'/3.6m

Note: Longer dimension of detection area (Y1, Y2) is parallel to longer dimension.

NLC-BT-PIR-SR-001

Plug and Play Network BLE Nodes and Sensor

The NLC-BT-PIR-SR-001 uses PIR motion detector architecture and passive infrared (PIR) technology for improved detection coverage for high bay applications.

FEATURES

- Bluetooth to 0-10V signal converter, Bluetooth mesh network.
- Built-in 20mA 0-10V signal output.
- Mesh network, which has a much longer control distance, transmits received signals to neighboring devices.
- All devices on 0-10V line are broadcast controlled by mobile application
- In typical outdoor environment, the typical range for wireless communication is 60m.
- Actual range is dependent on field installation.
- Available with Magnetic reset (Touch the top part of sensor for 5 seconds).
- On-board antenna.

SPECIFICATION

NETWORK BLE MESH	Yes
DAYLIGHT HARVESTING	Yes
MICROWAVE MOTION SENSOR	Yes
MOTION SENSOR	Passive infrared sensor
OPERATING VOLTAGE	10-14V DC
OPERATING CURRENT	>50mA
SINKING CURRENT	max. 25mA
CONTROL OUTPUT	0-10V
RADIO FREQUENCY	2.4GHz ± 75MHz
DETECTION ANGLE	360 °
PROGRAMMING	Silvair iOS App (IOS or Android)
CYBERSECURITY	UL
MOUNTING HEIGHT	12ft Max.
MAX BLUETOOTH RANGE	200ft
SAFETY	cULus Listed
FCC	FCC
OPERATING TEMP.	-20°C - +60°C
IP RATING	IP20
WARRANTY	5 year limited

COMMISSIONING

Silvair iOS App or Android makes it easy to pair devices, create groups, set scenes/schedules, customize dimming levels, and adjust high trim based on application needs.

Silvair App



iOS

Operation Instruction:

https://youtu.be/8KWPK7z_Tng

Android:

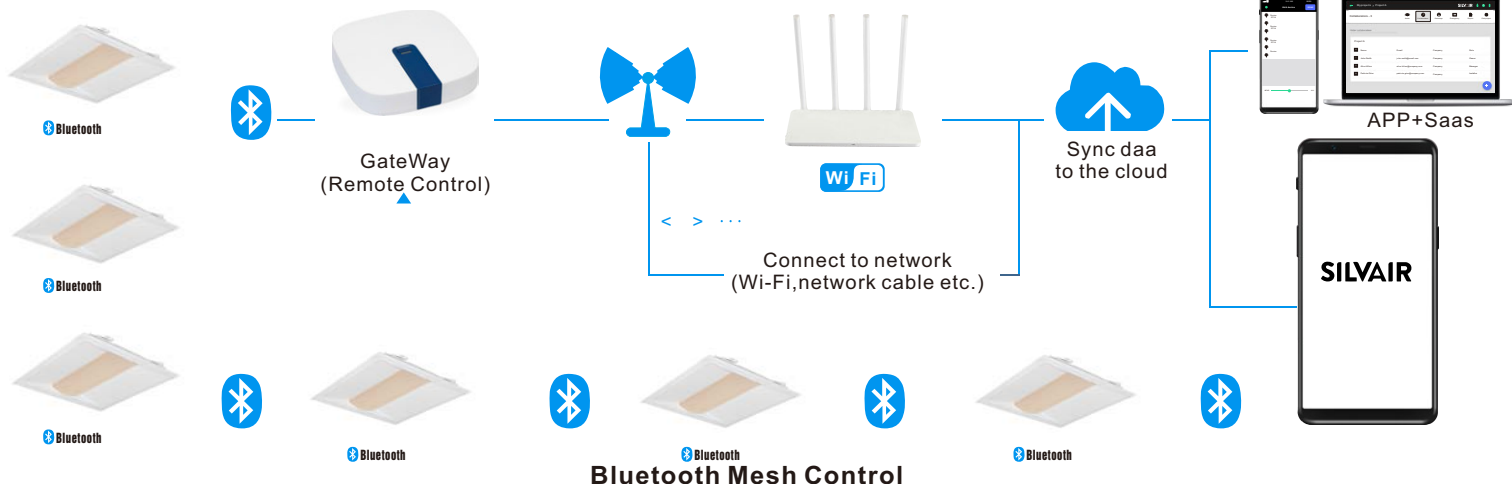
When using silvair, you can search for silvair in Android Google play to download and install it

Please scan and download the app:

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GateWay Remote Control



Functions:

The Silvair Gateway enables the following functions in the Silvair web app: • Scheduling (available by default)

- Scheduling changes in scenes and lighting control scenarios (for example occupancy sensing, daylight harvesting) for specific times or days.

• Energy and occupancy monitoring (additional paid service)

- Visualizing energy use and occupancy via the Silvair web app.
- Downloading energy and occupancy via the Silvair web app and cloud-based API.

• Remote monitoring and control (additional paid service)

- Low-latency monitoring of the status of devices in the network via API.
- Low-latency control of devices in the network via API.

• System diagnostics

- Monitoring of the status of Bluetooth mesh networks.
- Remote troubleshooting of networking issues.

Features:

- Future-proof Linux operating system.
- Simple commissioning using the Silvair Commissioning tools.
- Automatic connection to the Silvair cloud.
- Secure provisioning with secure IDs and encrypted keys.
- High level of hardware and software security (secure boot and encrypted file system can only be accessed with the management platform).
- Automatic security updates.
- Prompt releases of OS updates and fixes to vulnerabilities.
- Low-latency transfer of network, luminaire, and sensor status data to the Silvair cloud.
- Schedule caching.
- Automatic remote firmware updates.
- Display of gateway and network performance metrics (requires the Silvair web app).

INDUSTRIAL GATEWAY

SGW-101

Smart Engineering Gateway

The Silvair Gateway connects Bluetooth mesh networks that have been commissioned using the Silvair Commissioning tools to the Silvair cloud. This allows the scheduling of events and delivery of services based on the data generated by these networks.

SPECIFICATION

POWER SUPPLY	4.5–5.5 V DC, 2 A Power over Ethernet 36–57 V DC (IEEE 802.3af)
OPERATING SYSTEM	Ubuntu Core
PROCESSOR	i.MX6ULL (Y2), 32-bit ARM 800 MHz
MEMORY	512 MB DDR3L SDRAM 8GB eMMC
COMMUNICATION PROTOCOLS	Bluetooth mesh (2.4 GHz Bluetooth Low Energy) Wi-Fi 802.11a/b/g/n/ac (2.4/5 GHz) 4G LTE Cat 1 with 2G/3G (only for Cascade-500-W and Cascade-500-X gateways)
PORTS	1 x RJ45 10/100 Ethernet 1 x USB 2.0 Type-A 2 x external dipole antenna, 5 dBi (only for Cascade-500-W and Cascade-500-X gateways)
REQUIRED AMBIENT TEMPERATURE	0°C to 60°C 32°F to 140°F
ENCLOSURE DIMENSIONS	127 mm x 127 mm x 30 mm (5 inch x 5 inch x 1.2 inch)
MOUNTING POSITION	Wall or surface mounted. As close to the geometrical center of the lighting network as possible, but as far as possible from potential sources of interference.
SECURITY	Secure boot with encrypted operating system Secure communication with the Silvair Cloud over Internet (TLS) Secure communication with devices over qualified Bluetooth mesh

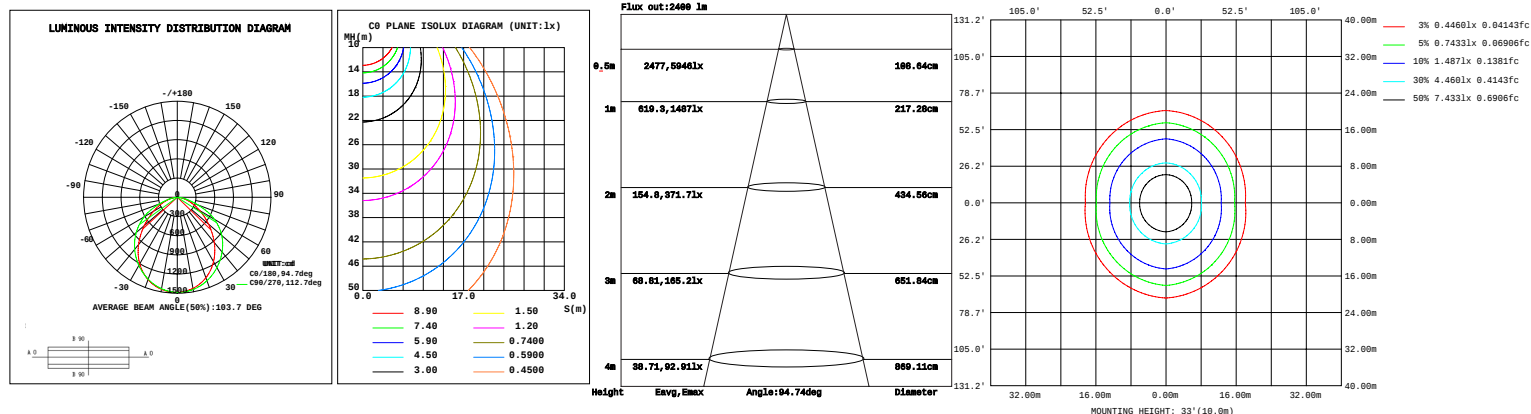
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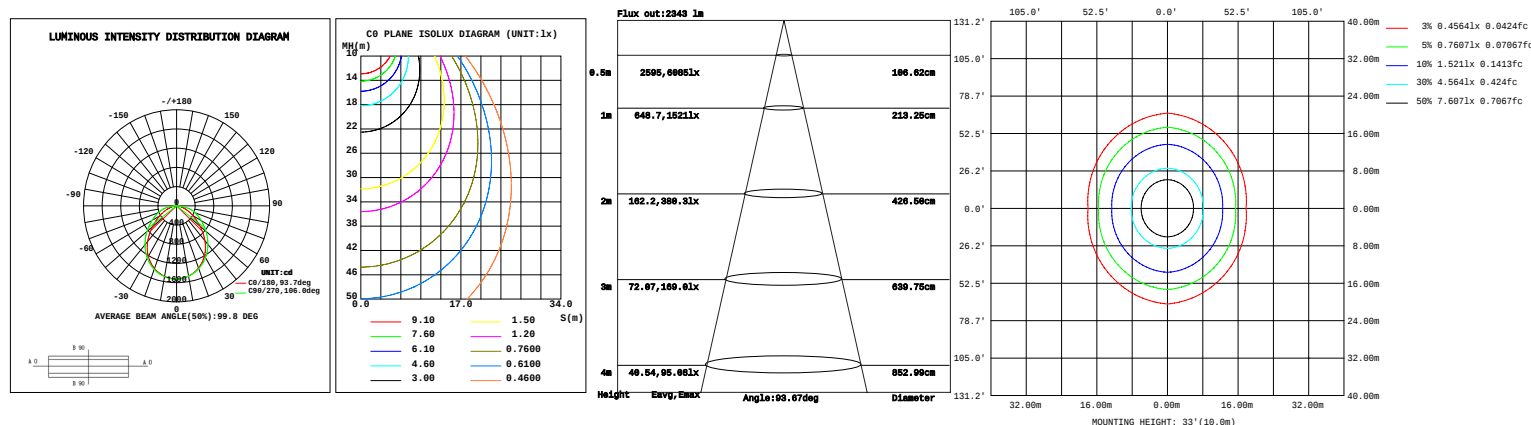
PHOTOMETRICS:

For complete IES files, please visit our website.

14RTFD14172028W27-5CCT (28W&3500K)



22RTFD14172028W27-5CCT (28W&3500K)



24RTFD20283441W27-5CCT (41W&3500K)

