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

WATT/5CCT
FIELD-ADJUSTABLE

1X4 FT

2X4 FT

2X2 FT

The Sensor Based LED Troffer 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.

UL CERTIFIED E498222 | POWER Selectable | CCT Selectable | FIVE YEAR LIMITED WARRANTY

Features:

· Energy efficient: save up to 80% in energy costs

· High lumen output

· Mercury-free

· Instant-on light

· 5 years manufacturer warranty

· Compatible with most Lutron and Leviton dimmers

· **12Vdc auxiliary dimming**

· **The 0-10V Dimming type is continuous**

Packaging information:

❖**14TRF14172028W27-5CCT:**
1230MMX307MMX113MM(2Pcs/CTN)
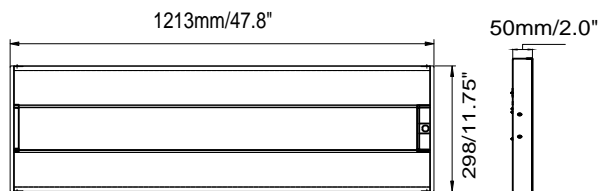(48.43" X12.09" X4.45")

❖**22TRF14172028W27-5CCT:**
620MMX620MMX123MM(2Pcs/CTN)
(24.41" X24.41" X4.84")

❖**24TRF20283441W27-5CCT:**
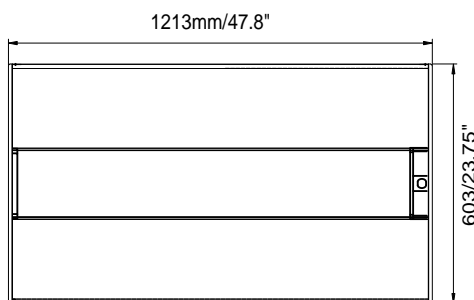1230MMX620MMX123MM(2Pcs/CTN)
(48.43" X24.41" X4.84")

SPECIFICATION		
TYPE	14TRF14172028W27-5CCT	22TRF14172028W27-5CCT	24TRF20283441W27-5CCT
WATTAGE	14W/17W/20W/28W	14W/17W/20W/28W	20W/28W/34W/41W
LUMEN	1896 lm/2363 lm/2752lm/3702lm	1979 lm/2452 lm/2844lm/3845lm	3390 lm/4629 lm/5375lm/6442lm
EFFICACY	> 140 lm/W		
CCT	3000K,3500K,4000K,5000K,6500K		
CRI	> 80		
INPUT VOLTAGE	AC120-277V		
LIGHTING ANGLE	119°		
FACTORY SETTINGS	28W & 4000K		41W & 4000K
LED TYPE	SMD2835		
WARRANTY	5 year limited		
PF	> 0.98		
DRIVER EFFICIENCY	> 90%		
PROTECTION LEVEL	Damp		
LIFE TIME	> 50000 hours		
OPERATING TEMPERATURE	-20℃~50℃(-4°F~122°F)		

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

DIMENSION:

1213mm/47.8"
298/11.75"
50mm/2.0"

1X4 feet

1213mm/47.8"
603/23.75"
54mm/2.13"

2X4 feet

603mm/23.75"
603/23.75"
54mm/2.13"
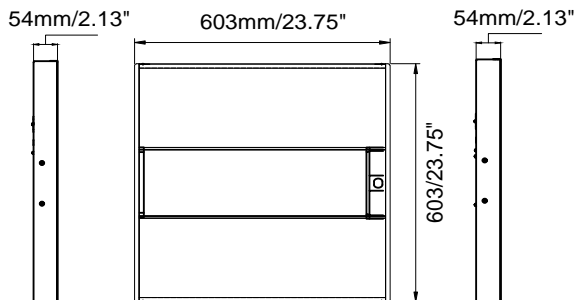
2X2 feet

Specifications:

Troffer-14/22/24

Length: 1213MM/603MM/1213MM
(47.8"/23.75"/47.8")

Width: 298MM/603MM/603MM
(11.75"/23.75"/23.75")

Depth: 50MM/54MM/54MM
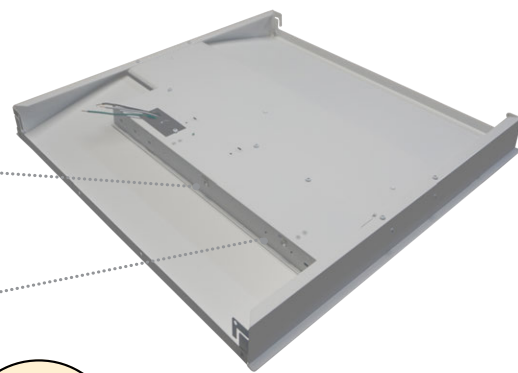(2.0"/2.13"/2.13")

Weight: 7.7/6.8/11.4(lbs)

Mounting:
❖ Embedded installation.

CONTROL MODULE:

20 28 34 41

3000K-6500K

WATT/5CCT
FIELD-ADJUSTABLE

Selectable 5CCT
Three position sliding switch
3000K / 3500K / 4000K /
5000K / 6500K

Selectable Power
Three position sliding switch
14W / 17W / 20W / 28W
20W / 28W / 34W / 41W

Multiple sensor solutions ready

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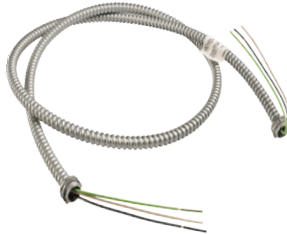
• Integrated occupancy and daylight controls.

Receptacle cover

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

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

ACCESSORIES: (SOLD SEPARATELY)

SB-EML08W27-XX
SB-EML15W27-XX
SB-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-0 0 1 use)
Remote Controller

BRI-WS204-GE
4-Button Wireless Wall Switch
(Can only be used for NLC-BT-PIR-GE-001)

ACCESSORIES: (ACCESSORIES NEED TO PURCHASED SEPARATELY)

SB-TF22FRAME-W
2X2 feet SURFACE MOUNT KIT

SB-TF24FRAME-W
2X4 feet SURFACE MOUNT KIT

SB-TF14FRAME-W
1X4 feet SURFACE MOUNT KIT

SNOWBALL
LIGHTING INCORPORATED

Sensor Based LED TROFFER LIGHT

SIGMALUX
COMMERCIAL LIGHTING

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

ORDERING INFORMATION:

EXAMPLE:

14TRF14172028W27-5CCT-E[Blank,BLE,EC,M,ECM]

14	TRF	14172028W	27	5CCT	E
SIZE	**PRODUCT**	**POWER**	**VOLTAGE**	**CCT**	**CONTROL**

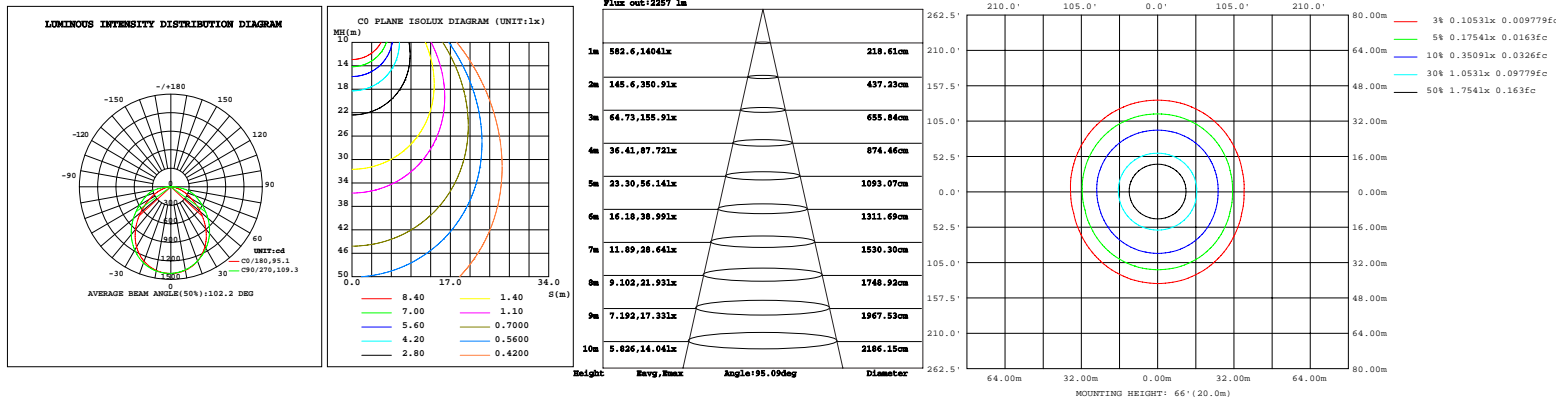| SIZE	PRODUCT	POWER	VOLTAGE	CCT	CONTROL
14 - (1X4feet) **22** - (2X2feet) **24** - (2X4feet)	**TRF** Led Troffer Light	**14172028/20283441** 14W/17W/20W/28W 20W/28W/34W/41W	**27** AC120-277V	**5CCT** 3000K/3500K/4000K /5000K/6500K	**BLE**(Bluetooth) **EC**(Emergency) **M**(Motion Sensor) **ECM**(Emergency+ Motion Sensor)

PHOTOMETRICS:

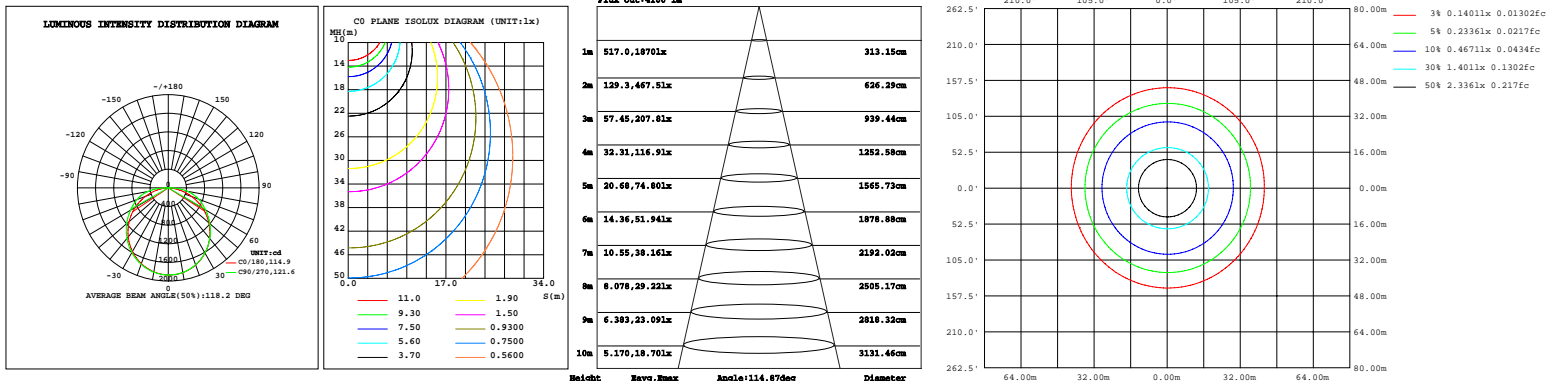*For complete IES files, please visit our website.*

14TRF14172028W27-5CCT (28W&3500K)
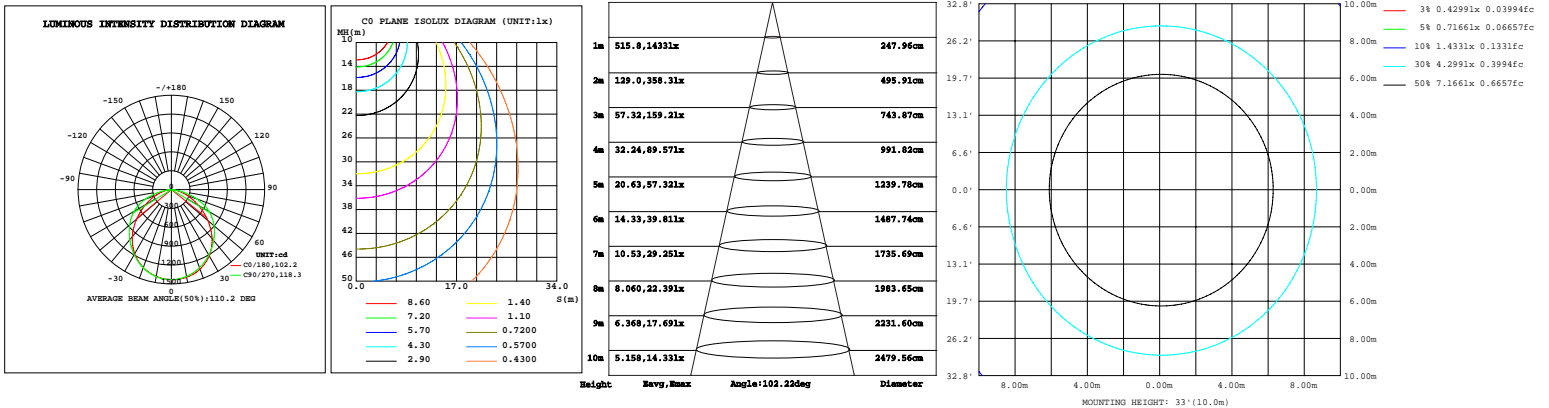
22TRF14172028W27-5CCT (28W&3500K)

24TRF20283441W27-5CCT (41W&3500K)

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

Bluetooth®

DIMENSION

52.5
20.5
11 ±0.3
14.9
21.7
34

COVERAGE

Y2 Y1 X1 X2 H

Height	Minor Movement		Major Movement	
H	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.
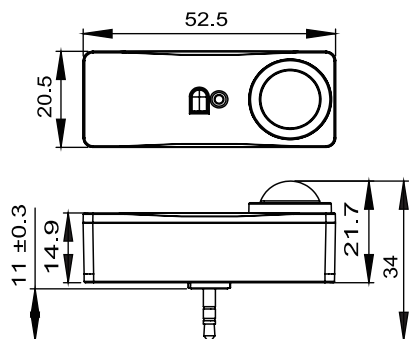
NLC-BT-PIR-SR-001
Plug and Play Network BLE Nodes and Sensor

The NLC-BT-PIR-SR-001 uses PIR motion detectorarchitecture and passive infrared (PIR) technology for improved detection coverage for high bay applications.
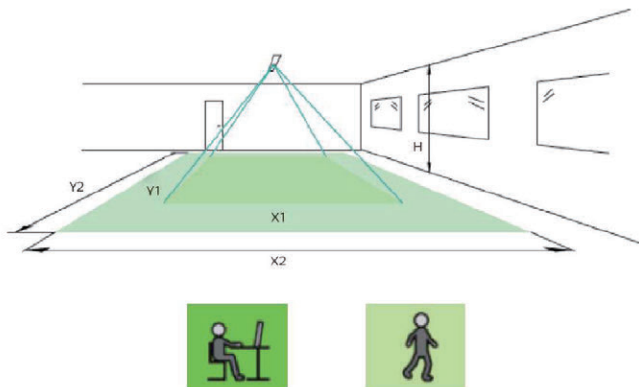
FEATURES
- Bluetooth to 0-10V signal converter, Bluetooth mesh network.
- Built-in 20mA 0-10V signal output.
- Mesh network, which has a much longer control distance, transmits received signals to neighboring devices.
- All devices on 0-10V line are broadcastcontrolled by mobile application
- In typical 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 sensorfor 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 °
PRORGRAMMING	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
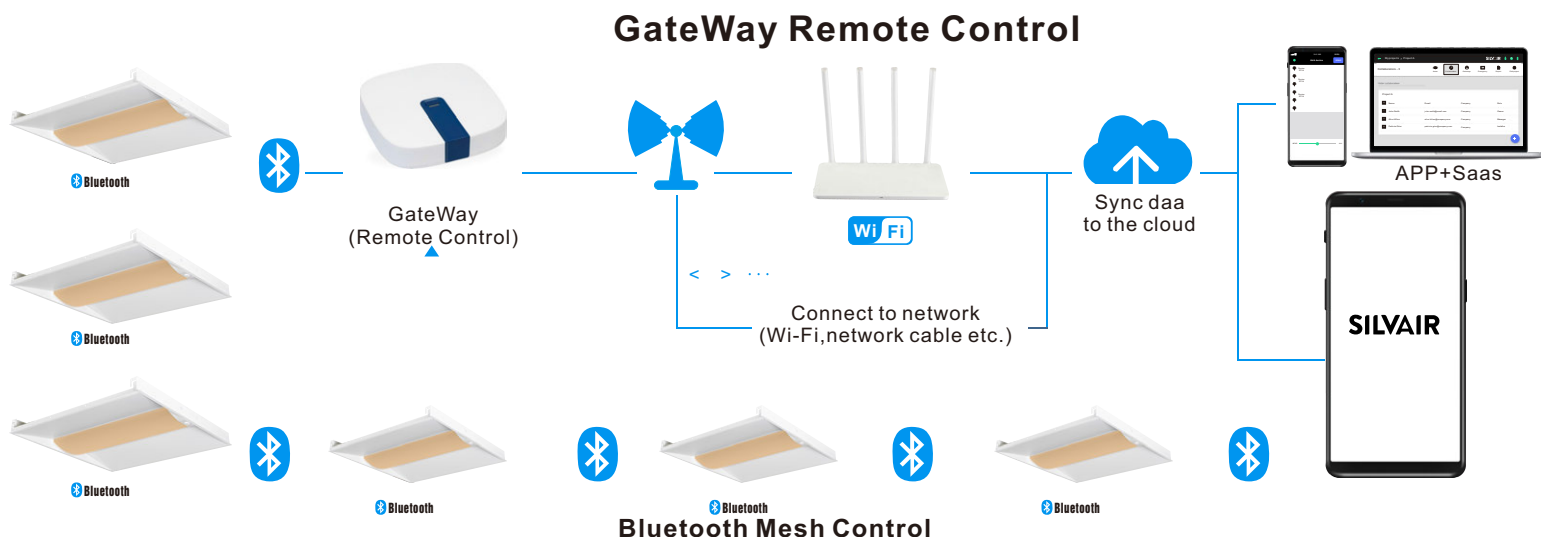

Please scan and download the app:

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

Sensor Based LED TROFFER LIGHT

SNOWBALL LIGHTING INCORPORATED

SIGMALUX COMMERCIAL LIGHTING

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

GateWay Remote Control

GateWay
(Remote Control)

Wi Fi

Connect to network
(Wi-Fi,network cable etc.)

Sync daa
to the cloud

APP+Saas

SILVAIR

Bluetooth

Bluetooth Mesh Control

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.

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.
● Energyand 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).

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