



PART # \_\_\_\_\_

JOB NAME \_\_\_\_\_

TYPE \_\_\_\_\_

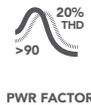


TRV

TRF

Our Troffer Retrofit Kits have an easy-to-install, multi-piece design. Packed with features including color and wattage selectability, OEM Lutron drivers and controls, and more.

- Compatible Control Systems
  - Lutron EcoSystem Digital Control – dims down to 1%
  - Lutron 3-Wire Phase Control – dims down to 1%
  - Lutron Vive and Athena (AWN) wireless systems
  - 10V and Bluetooth (BLE)
- Choose from a volumetric or a flat panel design in 1x4, 2x2, & 2x4 sizes
- Emergency battery back up available



ORDERING EXAMPLES - SEE PN BUILDER (PG.2) FOR ALL OPTIONS

PART #	DESCRIPTION	PAGE #
RP-TRF-2X4-24W-40K-AWN-OCC2-TAA	2X4 FLAT PANEL RETROFIT KIT W/ AWN RF WITH OCCUPANCY/VACANCY/DAYLIGHT SENSOR	2
RP-TRF-2X4-30W-40K-3W-EMG1-TAA	2X4 PANEL RETROFIT KIT W/ 3-WIRE CONTROL AND EMERGENCY BATTERY BACKUP	2
RP-TRF-2X4-30W-40K-E1-TAA	2X4 FLAT PANEL RETROFIT KIT W/ E1 CONTROL	2
RP-TRF-2X4-40W-40K-10V-TAA	2X4 FLAT PANEL RETROFIT KIT W/ 10V CONTROL	5
RP-TRF-2X4-40W-40K-10V-OCC-TAA	2X4 FLAT PANEL RETROFIT KIT W/ 10V CONTROL AND PIR OCCUPANCY SENSOR	5
RP-TRF-2X4-40W-40K-BLE-OCCBT-TAA	2X4 FLAT PANEL RETROFIT KIT W/ BLE CONTROL AND PIR OCCUPANCY SENSOR	5



A GOOD OR SERVICE IS TAA-COMPLIANT IF MANUFACTURED OR SUBSTANTIALLY TRANSFORMED IN THE UNITED STATES OR MANUFACTURED IN A TAA-DESIGNATED COUNTRY. A TAA-DESIGNATED COUNTRY IS A NATION WITH WHICH THE U.S. MAINTAINS A TRADE AGREEMENT AND REGARDS AS A RELIABLE OR ACCEPTABLE PROCUREMENT SOURCE.



PART NUMBER BUILDER - SEE ORDERING GUIDES ON PGS. 3 & 4 FOR MORE DETAILS

MFR	PRODUCT	SIZE	WATTAGE	CCT	DIMMING/CONTROL	OPTION 1	OPTION 2	LISTING
RP								
TRV,TRF	1X4 2X2	16W, 20W, 24W	35K, 40K, 50K	E1, 3W	N/A	EMG	TAA	
					N/A			
					OCC - PIR OCCUPANCY SENSOR			
		24W	35K, 40K, 50K	10V	OCCBT - NLC W/ PIR OCCUPANCY SENSOR			
					OCC1 - RF ONLY			
					OCC2 - RF WITH OCCUPANCY/VACANCY/DAYLIGHT SENSOR			
16W, 20W, 24W	35K, 40K, 50K	VIVE, AWN	N/A					
			N/A					
			OCC - PIR OCCUPANCY SENSOR					
TRV,TRF	2X4	24W, 30W, 40W	35K, 40K, 50K	E1, 3W	N/A	EMG	TAA	
					N/A			
					OCC - PIR OCCUPANCY SENSOR			
		40W	35K, 40K, 50K	10V	OCCBT - NLC W/ PIR OCCUPANCY SENSOR			
					OCC1 - RF ONLY			
					OCC2 - RF WITH OCCUPANCY/VACANCY/DAYLIGHT SENSOR			
24W, 30W, 40W	35K, 40K, 50K	VIVE, AWN	N/A					
			N/A					
			OCC - PIR OCCUPANCY SENSOR					

### LUTRON CONTROLS

#### VIVE



- Provides wireless control
- Available with or without occupancy sensing
- Integrate directly into existing Lutron Vive control system

#### ATHENA (AWN)



- Provides wireless control
- Available with or without occupancy sensing
- Integrate directly into existing Lutron Athena control system
- Recommended for grouping multiple floors and buildings on one system

FOR MORE INFORMATION SCAN BELOW



FOR MORE INFORMATION SCAN BELOW





### ORDERING GUIDE - E1 DRIVER

PART #	SIZE	WATTAGE	LUMENS
RP-TRV-1X4-16W-40K-E1-TAA	1X4	16	2000
RP-TRV-1X4-20W-40K-E1-TAA	1X4	20	2500
RP-TRV-1X4-24W-40K-E1-TAA	1X4	24	3000
RP-TRV-2X2-16W-40K-E1-TAA	2X2	16	2000
RP-TRV-2X2-20W-40K-E1-TAA	2X2	20	2500
RP-TRV-2X2-24W-40K-E1-TAA	2X2	24	3000
RP-TRV-2X4-24W-40K-E1-TAA	2X4	24	3000
RP-TRV-2X4-30W-40K-E1-TAA	2X4	30	3750
RP-TRV-2X4-40W-40K-E1-TAA	2X4	40	5000
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RP-TRF-1X4-16W-40K-E1-TAA	1X4	16	2000
RP-TRF-1X4-20W-40K-E1-TAA	1X4	20	2500
RP-TRF-1X4-24W-40K-E1-TAA	1X4	24	3000
RP-TRF-2X2-16W-40K-E1-TAA	2X2	16	2000
RP-TRF-2X2-20W-40K-E1-TAA	2X2	20	2500
RP-TRF-2X2-24W-40K-E1-TAA	2X2	24	3000
RP-TRF-2X4-24W-40K-E1-TAA	2X4	24	3000
RP-TRF-2X4-30W-40K-E1-TAA	2X4	30	3750
RP-TRF-2X4-40W-40K-E1-TAA	2X4	40	5000

### ORDERING GUIDE - 3W DRIVER

PART #	SIZE	WATTAGE	LUMENS
RP-TRV-1X4-16W-40K-3W-TAA	1X4	16	2000
RP-TRV-1X4-20W-40K-3W-TAA	1X4	20	2500
RP-TRV-1X4-24W-40K-3W-TAA	1X4	24	3000
RP-TRV-2X2-16W-40K-3W-TAA	2X2	16	2000
RP-TRV-2X2-20W-40K-3W-TAA	2X2	20	2500
RP-TRV-2X2-24W-40K-3W-TAA	2X2	24	3000
RP-TRV-2X4-24W-40K-3W-TAA	2X4	24	3000
RP-TRV-2X4-30W-40K-3W-TAA	2X4	30	3750
RP-TRV-2X4-40W-40K-3W-TAA	2X4	40	5000
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RP-TRF-1X4-16W-40K-3W-TAA	1X4	16	2000
RP-TRF-1X4-20W-40K-3W-TAA	1X4	20	2500
RP-TRF-1X4-24W-40K-3W-TAA	1X4	24	3000
RP-TRF-2X2-16W-40K-3W-TAA	2X2	16	2000
RP-TRF-2X2-20W-40K-3W-TAA	2X2	20	2500
RP-TRF-2X2-24W-40K-3W-TAA	2X2	24	3000
RP-TRF-2X4-24W-40K-3W-TAA	2X4	24	3000
RP-TRF-2X4-30W-40K-3W-TAA	2X4	30	3750
RP-TRF-2X4-40W-40K-3W-TAA	2X4	40	5000

### ORDERING GUIDE - 10V DRIVER

PART #	SIZE	WATTAGE	LUMENS
RP-TRV-1X4-24W-40K-10V-TAA	1X4	24	3000
RP-TRV-2X2-24W-40K-10V-TAA	2X2	24	3000
RP-TRV-2X4-40W-40K-10V-TAA	2X4	40	5000
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RP-TRF-1X4-24W-40K-10V-TAA	1X4	24	3000
RP-TRF-2X2-24W-40K-10V-TAA	2X2	24	3000
RP-TRF-2X4-40W-40K-10V-TAA	2X4	40	5000

### ORDERING GUIDE - 10V W/ OCC

PART #	SIZE	WATTAGE	LUMENS
RP-TRV-1X4-24W-40K-10V-OCC-TAA	1X4	24	3000
RP-TRV-2X2-24W-40K-10V-OCC-TAA	2X2	24	3000
RP-TRV-2X4-40W-40K-10V-OCC-TAA	2X4	40	5000
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RP-TRF-1X4-24W-40K-10V-OCC-TAA	1X4	24	3000
RP-TRF-2X2-24W-40K-10V-OCC-TAA	2X2	24	3000
RP-TRF-2X4-40W-40K-10V-OCC-TAA	2X4	40	5000



### ORDERING GUIDE - BLE

PART #	SIZE	WATTAGE	LUMENS
RP-TRV-1X4-24W-40K-BLE-OCCBT-TAA	1X4	24	3000
RP-TRV-2X2-24W-40K-BLE-OCCBT-TAA	2X2	24	3000
RP-TRV-2X4-40W-40K-BLE-OCCBT-TAA	2X4	40	5000
RP-TRF-1X4-24W-40K-BLE-OCCBT-TAA	1X4	24	3000
RP-TRF-2X2-24W-40K-BLE-OCCBT-TAA	2X2	24	3000
RP-TRF-2X4-40W-40K-BLE-OCCBT-TAA	2X4	40	5000

### ORDERING GUIDE - VIVE RF ONLY

PART #	SIZE	WATTAGE	LUMENS
RP-TRV-1X4-16W-40K-VIVE-OCC1-TAA	1X4	16	2000
RP-TRV-1X4-20W-40K-VIVE-OCC1-TAA	1X4	20	2500
RP-TRV-1X4-24W-40K-VIVE-OCC1-TAA	1X4	24	3000
RP-TRV-2X2-16W-40K-VIVE-OCC1-TAA	2X2	16	2000
RP-TRV-2X2-20W-40K-VIVE-OCC1-TAA	2X2	20	2500
RP-TRV-2X2-24W-40K-VIVE-OCC1-TAA	2X2	24	3000
RP-TRV-2X4-24W-40K-VIVE-OCC1-TAA	2X4	24	3000
RP-TRV-2X4-30W-40K-VIVE-OCC1-TAA	2X4	30	3750
RP-TRV-2X4-40W-40K-VIVE-OCC1-TAA	2X4	40	5000
RP-TRF-1X4-16W-40K-VIVE-OCC1-TAA	1X4	16	2000
RP-TRF-1X4-20W-40K-VIVE-OCC1-TAA	1X4	20	2500
RP-TRF-1X4-24W-40K-VIVE-OCC1-TAA	1X4	24	3000
RP-TRF-2X2-16W-40K-VIVE-OCC1-TAA	2X2	16	2000
RP-TRF-2X2-20W-40K-VIVE-OCC1-TAA	2X2	20	2500
RP-TRF-2X2-24W-40K-VIVE-OCC1-TAA	2X2	24	3000
RP-TRF-2X4-24W-40K-VIVE-OCC1-TAA	2X4	24	3000
RP-TRF-2X4-30W-40K-VIVE-OCC1-TAA	2X4	30	3750
RP-TRF-2X4-40W-40K-VIVE-OCC1-TAA	2X4	40	5000

### ORDERING GUIDE - VIVE W/ OCC

PART #	SIZE	WATTAGE	LUMENS
RP-TRV-1X4-16W-40K-VIVE-OCC2-TAA	1X4	16	2000
RP-TRV-1X4-20W-40K-VIVE-OCC2-TAA	1X4	20	2500
RP-TRV-1X4-24W-40K-VIVE-OCC2-TAA	1X4	24	3000
RP-TRV-2X2-16W-40K-VIVE-OCC2-TAA	2X2	16	2000
RP-TRV-2X2-20W-40K-VIVE-OCC2-TAA	2X2	20	2500
RP-TRV-2X2-24W-40K-VIVE-OCC2-TAA	2X2	24	3000
RP-TRV-2X4-24W-40K-VIVE-OCC2-TAA	2X4	24	3000
RP-TRV-2X4-30W-40K-VIVE-OCC2-TAA	2X4	30	3750
RP-TRV-2X4-40W-40K-VIVE-OCC2-TAA	2X4	40	5000
RP-TRF-1X4-16W-40K-VIVE-OCC2-TAA	1X4	16	2000
RP-TRF-1X4-20W-40K-VIVE-OCC2-TAA	1X4	20	2500
RP-TRF-1X4-24W-40K-VIVE-OCC2-TAA	1X4	24	3000
RP-TRF-2X2-16W-40K-VIVE-OCC2-TAA	2X2	16	2000
RP-TRF-2X2-20W-40K-VIVE-OCC2-TAA	2X2	20	2500
RP-TRF-2X2-24W-40K-VIVE-OCC2-TAA	2X2	24	3000
RP-TRF-2X4-24W-40K-VIVE-OCC2-TAA	2X4	24	3000
RP-TRF-2X4-30W-40K-VIVE-OCC2-TAA	2X4	30	3750
RP-TRF-2X4-40W-40K-VIVE-OCC2-TAA	2X4	40	5000



### ORDERING GUIDE - AWN RF ONLY

PART #	SIZE	WATTAGE	LUMENS
RP-TRV-1X4-16W-40K-AWN-OCC1-TAA	1X4	16	2000
RP-TRV-1X4-20W-40K-AWN-OCC1-TAA	1X4	20	2500
RP-TRV-1X4-24W-40K-AWN-OCC1-TAA	1X4	24	3000
RP-TRV-2X2-16W-40K-AWN-OCC1-TAA	2X2	16	2000
RP-TRV-2X2-20W-40K-AWN-OCC1-TAA	2X2	20	2500
RP-TRV-2X2-24W-40K-AWN-OCC1-TAA	2X2	24	3000
RP-TRV-2X4-24W-40K-AWN-OCC1-TAA	2X4	24	3000
RP-TRV-2X4-30W-40K-AWN-OCC1-TAA	2X4	30	3750
RP-TRV-2X4-40W-40K-AWN-OCC1-TAA	2X4	40	5000
RP-TRF-1X4-16W-40K-AWN-OCC1-TAA	1X4	16	2000
RP-TRF-1X4-20W-40K-AWN-OCC1-TAA	1X4	20	2500
RP-TRF-1X4-24W-40K-AWN-OCC1-TAA	1X4	24	3000
RP-TRF-2X2-16W-40K-AWN-OCC1-TAA	2X2	16	2000
RP-TRF-2X2-20W-40K-AWN-OCC1-TAA	2X2	20	2500
RP-TRF-2X2-24W-40K-AWN-OCC1-TAA	2X2	24	3000
RP-TRF-2X4-24W-40K-AWN-OCC1-TAA	2X4	24	3000
RP-TRF-2X4-30W-40K-AWN-OCC1-TAA	2X4	30	3750
RP-TRF-2X4-40W-40K-AWN-OCC1-TAA	2X4	40	5000

### ORDERING GUIDE - AWN W/ OCC

PART #	SIZE	WATTAGE	LUMENS
RP-TRV-1X4-16W-40K-AWN-OCC2-TAA	1X4	16	2000
RP-TRV-1X4-20W-40K-AWN-OCC2-TAA	1X4	20	2500
RP-TRV-1X4-24W-40K-AWN-OCC2-TAA	1X4	24	3000
RP-TRV-2X2-16W-40K-AWN-OCC2-TAA	2X2	16	2000
RP-TRV-2X2-20W-40K-AWN-OCC2-TAA	2X2	20	2500
RP-TRV-2X2-24W-40K-AWN-OCC2-TAA	2X2	24	3000
RP-TRV-2X4-24W-40K-AWN-OCC2-TAA	2X4	24	3000
RP-TRV-2X4-30W-40K-AWN-OCC2-TAA	2X4	30	3750
RP-TRV-2X4-40W-40K-AWN-OCC2-TAA	2X4	40	5000
RP-TRF-1X4-16W-40K-AWN-OCC2-TAA	1X4	16	2000
RP-TRF-1X4-20W-40K-AWN-OCC2-TAA	1X4	20	2500
RP-TRF-1X4-24W-40K-AWN-OCC2-TAA	1X4	24	3000
RP-TRF-2X2-16W-40K-AWN-OCC2-TAA	2X2	16	2000
RP-TRF-2X2-20W-40K-AWN-OCC2-TAA	2X2	20	2500
RP-TRF-2X2-24W-40K-AWN-OCC2-TAA	2X2	24	3000
RP-TRF-2X4-24W-40K-AWN-OCC2-TAA	2X4	24	3000
RP-TRF-2X4-30W-40K-AWN-OCC2-TAA	2X4	30	3750
RP-TRF-2X4-40W-40K-AWN-OCC2-TAA	2X4	40	5000



FIELD ADJUSTABLE CONTROL OPTIONS

SIMPLE LIGHTING CONTROL



-OCC

PASSIVE INFRARED AND DAYLIGHT HARVESTING OCCUPANCY SENSOR  
IR12 REMOTE (SUBJECT TO CHANGE)



NETWORK LIGHTING CONTROL



-OCCBT

SILVAIR-READY PASSIVE INFRARED AND DAYLIGHT HARVESTING OCCUPANCY SENSOR  
SILVAIR APP



SIMPLY REMOVE THE CAP AND PLUG IN THE SENSOR



BLUETOOTH CONTROL

USE BLUETOOTH CONTROLS TO CONNECT TROFFERS TO YOUR PHONE AND/OR WALL SWITCH



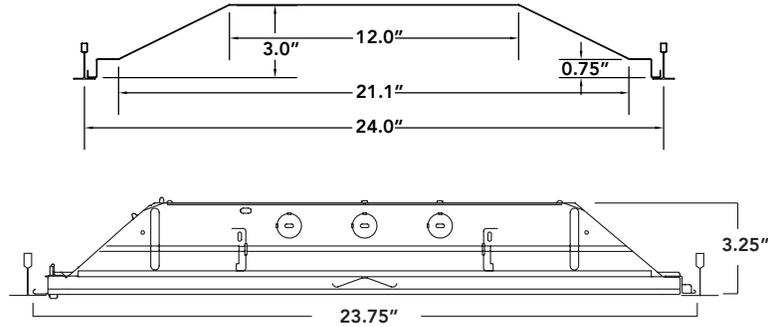
FLEXWATT LUMENS @ 4000K

SIZE	POSITION 1	POSITION 2	POSITION 3
2X2	16W (2000LM)	20W (2500LM)	24W (3000LM)
2X4	24W (3000LM)	30W (3750LM)	40W (5000LM)



FIT COMPATIBILITY

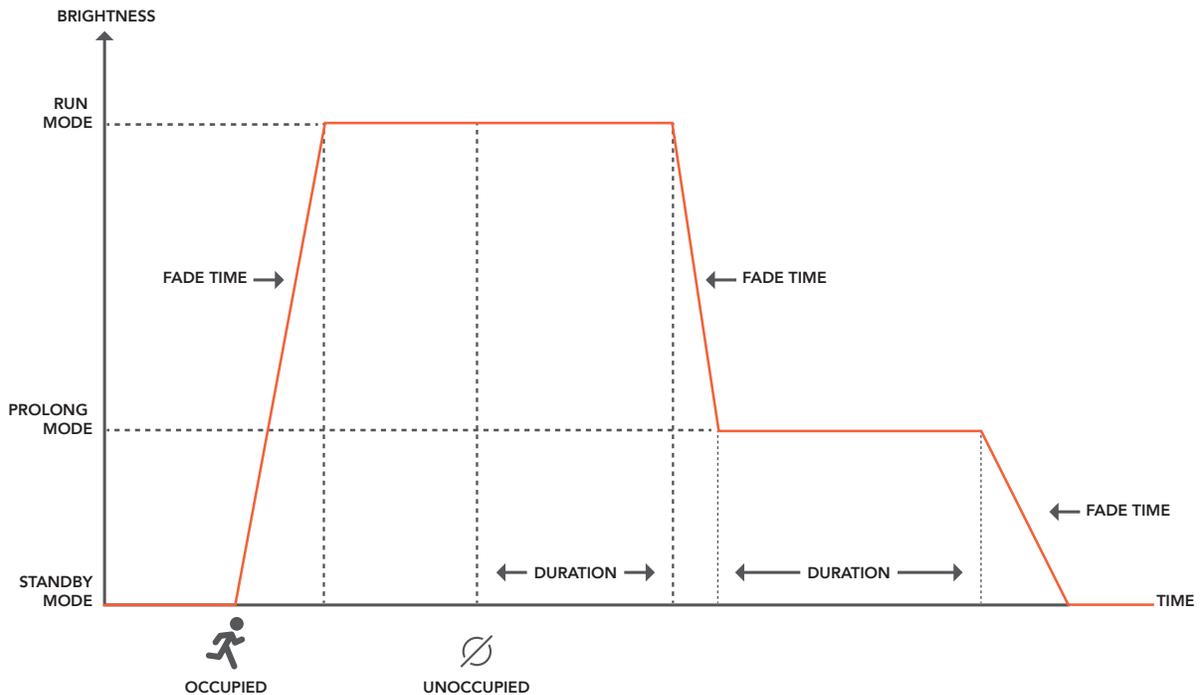
The Troffer Retrofit Kit was designed to upgrade recessed 1x4, 2x2, and 2x4 fixtures, including parabolic and lensed troffers from most major manufacturers. Example fixture dimensional requirements below. Trial installation is recommended before placing an order.



LIGHTING CONTROL SCENARIOS

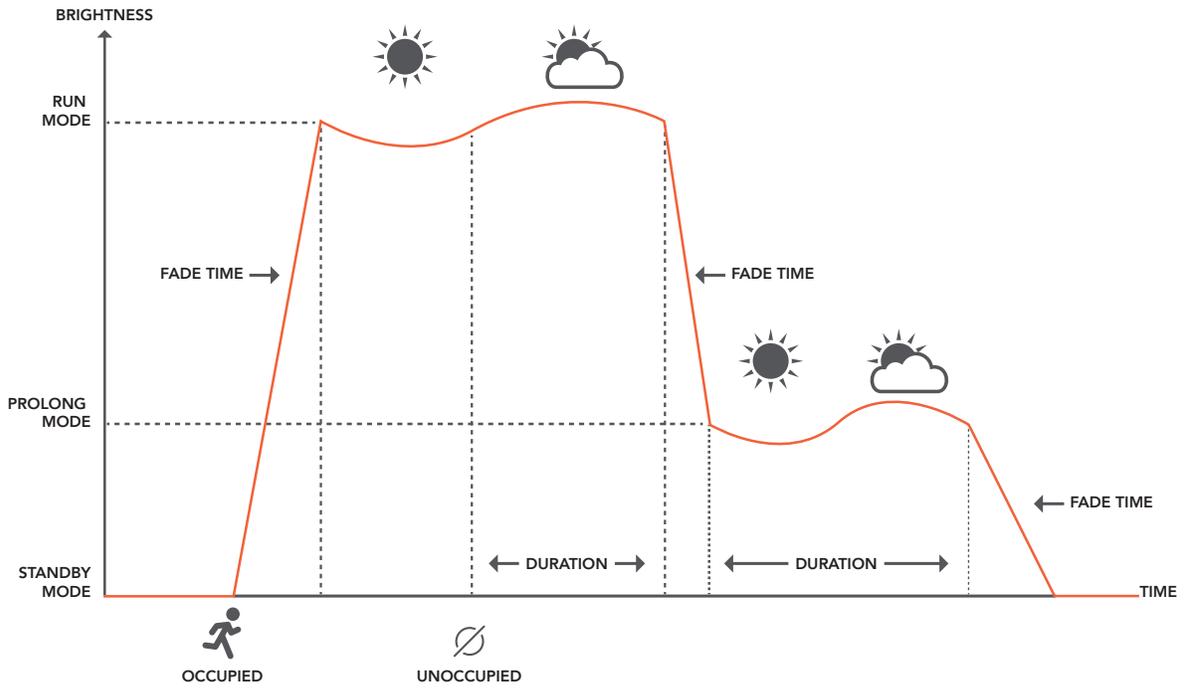
Multiple lighting control scenarios are available once the Bluetooth mesh sensor is provisioned. Within scenario, duration, fade time and target brightness can be configured at any time with the Silvoir app available on iOS, Android, and web.

EXAMPLE OCCUPANCY SCENARIO

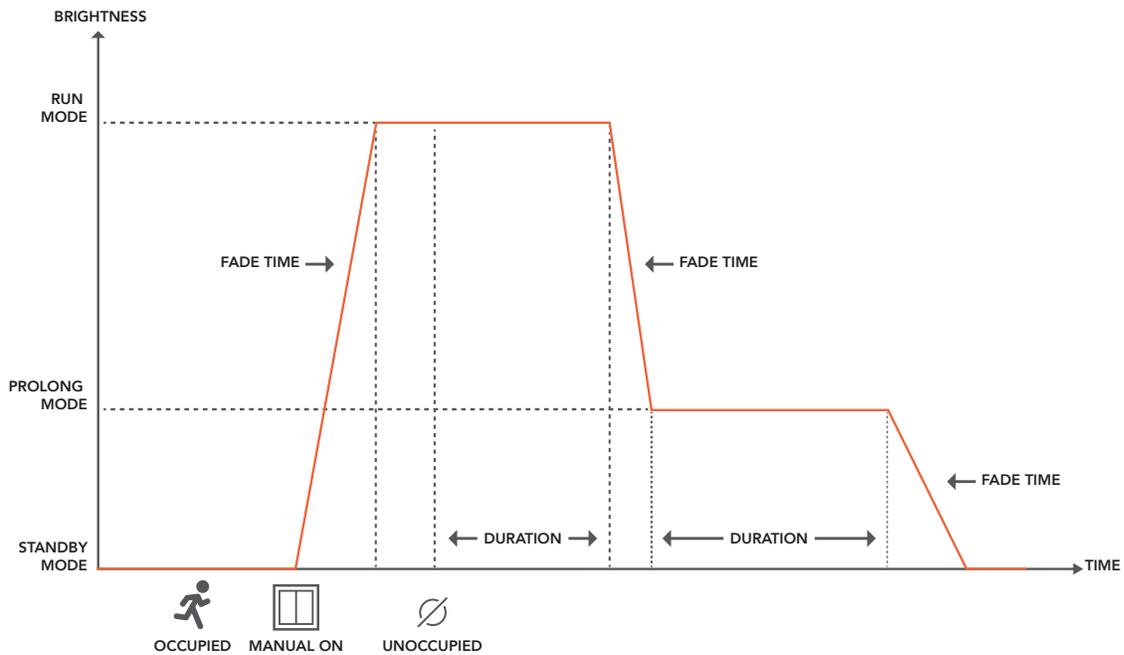




EXAMPLE OCCUPANCY SCENARIO W/ DAYLIGHT HARVESTING

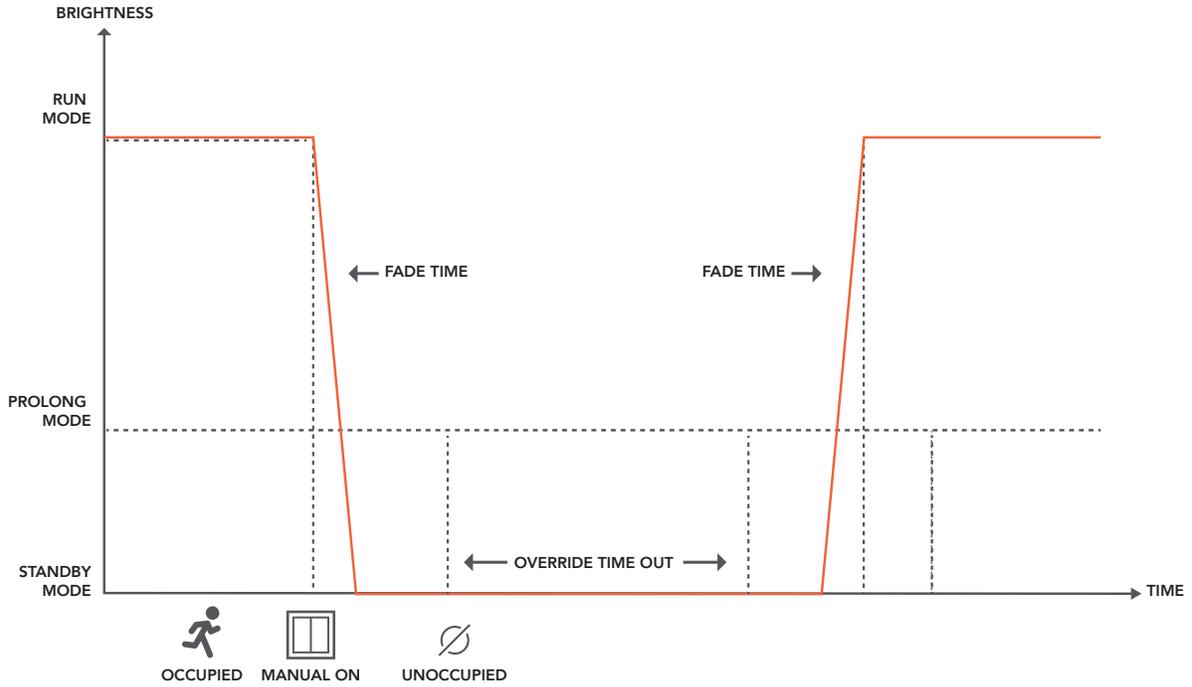


EXAMPLE VACANCY SCENARIO





EXAMPLE OCCUPANCY SCENARIO W/ MANUAL OVERRIDE



## PASSIVE INFRARED AND DAYLIGHT HARVESTING OCCUPANCY SENSOR

### ATTRIBUTES

ADDING **-OCC** TO THE TROFFER RETROFIT KIT PART NUMBER UPGRADES THE FIXTURE W/ A FACTORY INSTALLED **SIMPLE CONTROL** UTILIZING A PASSIVE INFRARED SENSOR. IT ALSO COMES EQUIPPED W/ A DAYLIGHT HARVESTING SENSOR TO DIM AND/OR TURN OFF THE FLAT PANEL WHEN THE SPACE IS UNOCCUPIED OR SURROUNDING NATURAL LIGHT LEVELS ARE HIGH.



<b>DETECTION TECHNOLOGY</b>	PASSIVE INFRARED (PIR)
<b>DETECTION TYPE</b>	OCCUPANCY
<b>SENSOR POWER</b>	12VDC
<b>GROUPABLE</b>	NO
<b>NETWORK LIGHTING CONTROL</b>	NO
<b>COMMISSIONING METHOD</b>	IR REMOTE
<b>REMOTE</b>	IR12 -SUBJECT TO CHANGE
<b>DAYLIGHT HARVESTING</b>	YES
<b>HI OR LOW TRIM</b>	NO
<b>BI-LEVEL DIMMING</b>	YES
<b>NETWORK TECHNOLOGY</b>	NONE
<b>INSTALLATION TYPE</b>	AUDIO JACK (EXTERNAL)
<b>DLC LISTED</b>	YES

### IR12 REMOTE - SUBJECT TO CHANGE



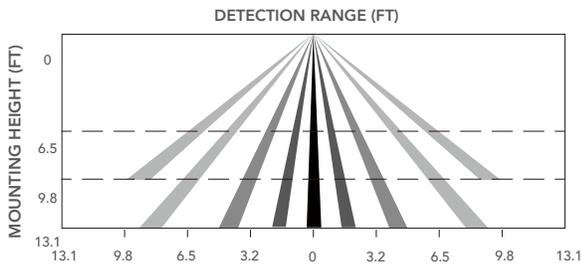
- Permanent ON/OFF Function
- Dim+/-
- Sensor Mode
- Reset Function
- Ambient Learn
- Test Mode

FOR MORE INFORMATION ON THE IR12 REMOTE SCAN BELOW

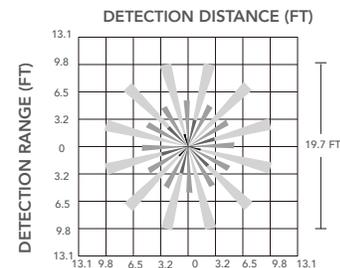


### DETECTION PATTERN / -OCC

#### CEILING MOUNTING



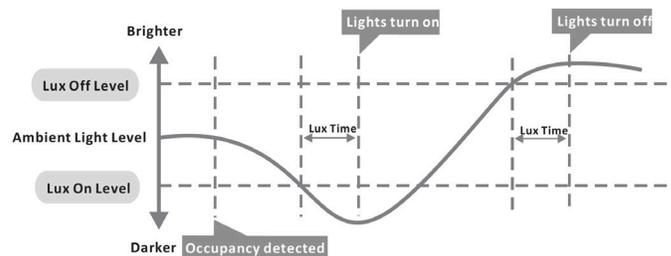
#### WALL MOUNTING



### DAYLIGHT HARVESTING / -OCC

Sensor detects the difference between natural light and artificial light (lamp) from behind the diffuser, switch on automatically (even w/o movements) when the ambient light is below the target value, and switch off automatically whenever the artificial light is not required (ambient light meets target level).

**NOTE** LUX-OFF SAMPLING TIME - 30S. LUX-ON SAMPLING TIME - 10S. LUX-ON FUNCTION WILL ONLY OPERATE WITHOUT MOTION WHEN STANDBY IS SET TO + ∞.



## SILVAIR-READY PASSIVE INFRARED AND DAYLIGHT HARVESTING OCCUPANCY SENSOR

ADDING **-OCCBT** TO THE TROFFER RETROFIT KIT PART NUMBER UPGRADES THE FIXTURE W/ A FACTORY INSTALLED **NETWORK LIGHTING CONTROL**. ONCE CONNECTED THROUGH THE SILVAIR APP, THE BLUETOOTH PASSIVE INFRARED SENSOR AND DAYLIGHT HARVESTING TECHNOLOGY CAN MAXIMIZE ENERGY SAVINGS.



### ATTRIBUTES

<b>DETECTION TECHNOLOGY</b>	PASSIVE INFRARED (PIR)
<b>DETECTION TYPE</b>	OCCUPANCY / VACANCY
<b>SENSOR POWER</b>	12VDC
<b>GROUPABLE</b>	YES
<b>NETWORK LIGHTING CONTROL</b>	YES
<b>COMMISSIONING METHOD</b>	SILVAIR APP + IR REMOTE FOR RANGE SETTING
<b>REMOTE</b>	N/A
<b>DAYLIGHT HARVESTING</b>	YES
<b>HI OR LOW TRIM</b>	YES
<b>BI-LEVEL DIMMING</b>	YES
<b>NETWORK TECHNOLOGY</b>	BLUETOOTH
<b>INSTALLATION TYPE</b>	AUDIO JACK (EXTERNAL)
<b>DLC LISTED</b>	YES + DLC NLC

### SILVAIR APP



SILVAIR IS A SOFTWARE AND COMMISSIONING APP THAT CONNECTS AND CONTROLS LIGHTING FIXTURES USING BLUETOOTH MESH TECHNOLOGY.

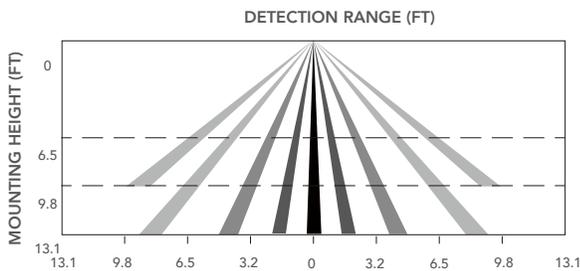


FOR MORE INFORMATION ON THE SILVAIR APP SCAN BELOW OR SEE PG. 11

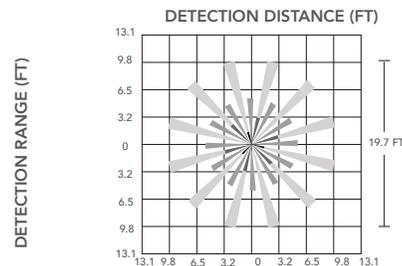


### DETECTION PATTERN / -OCCBT

#### CEILING MOUNTING



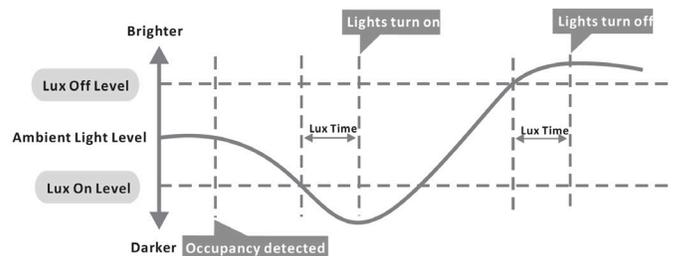
#### WALL MOUNTING

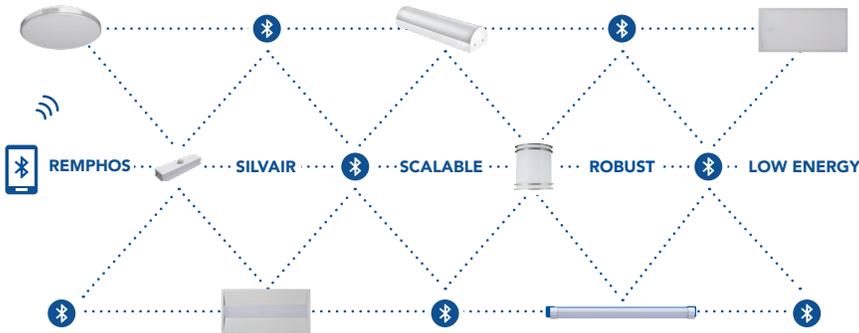


### DAYLIGHT HARVESTING / -OCCBT

Sensor detects the difference between natural light and artificial light (lamp) from behind the diffuser, switch on automatically (even w/o movements) when the ambient light is below the target value, and switch off automatically whenever the artificial light is not required (ambient light meets target level).

**NOTE** LUX-OFF SAMPLING TIME - 30S. LUX-ON SAMPLING TIME - 10S. LUX-ON FUNCTION WILL ONLY OPERATE WITHOUT MOTION WHEN STANDBY IS SET TO + ∞.





## WHAT IS SILVAIR?

Silvaair is a software and commissioning app that connects and controls lighting fixtures using Bluetooth mesh technology.

## HOW DOES IT CONNECT?

Silvaair can be set up in advance through the cloud and the Silvaair portal. It can also be commissioned in the field with the IOS app.

## DOWNLOAD SILVAIR APPS



MOBILE APP Apple App Store  
or  
WEB APP [platform.silvaair.com](http://platform.silvaair.com)

