

## LED VOLUMETRIC RETROFIT

WATT AND CCT SELECTABLE WITH SENSOR SOCKET

PROJECT:	
CATALOG #	
TYPE:	DATE:

### DESCRIPTION

Combining top-tier efficiency with a refined, architectural design, the LED Volumetric Troffer Retrofit delivers the same high performance as a new fixture while allowing for quick and cost-effective upgrades to existing troffers.

The Volumetric Troffer Retrofit with Sensor Socket brings advanced lighting control and energy savings to retrofit applications. Optional occupancy sensing and daylight harvesting (via a pluggable sensor, sold separately) automatically reduce energy use, with adjustable settings tailored to each space.

Setup is simple through the LiteSmart mobile app, providing Bluetooth® control for grouping, dimming, and custom scene creation—all managed directly from a mobile device. For larger projects, commissioning is seamless with the IR Programming feature using the SCR054 control (sold separately).

Installation is fast and tool-light, fitting directly into existing 1'x4', 2'x2', and 2'x4' grid troffers without the need to remove the housing. Each room or group of fixtures can be configured through LiteSmart or controlled locally via a Bluetooth wall switch.

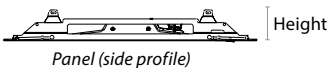


### FEATURES

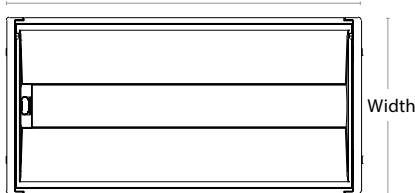
- 5 Selectable watts & CCT
- DLC 5.1 Premium
- 0-10 V dimming standard
- Compatible with emergency battery backup options
- 100,000-hour rated life
- 10-year warranty
- TAA Compliant
- Compatible with LiteSmart Bluetooth wall switches for local control
- Optional pluggable sensor enables occupancy sensing and daylight harvesting
- Optional IR Programming feature using the SCR054 control (sold separately)

### DIMENSIONS / WEIGHT

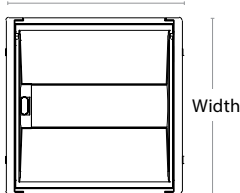
Part	Length	Width	Height	Weight
VRT4S	47.83"	23.85"	2.87"	9.17 Lbs.
VRT2S	23.85"	23.85"	2.87"	5.62 Lbs.
VRT1S	47.83"	11.88"	2.87"	7.82 Lbs.



Length



Length



### APPLICATIONS

- Drop ceilings

### MARKETS

- Healthcare
- Hospitals
- Offices
- Retail
- Schools
- Warehouses

### CERTIFICATIONS



## ORDERING INFORMATION

**Life (@L70):** 100,000 hours

**Warranty:** 10 years

### PERFORMANCE

**Operating temp:** -4°F to 113°F (-20°C to 45°C)

**Efficacy (LPW):** 125

**CRI:** 82

### ELECTRICAL

**Input voltage:** 120-277V

**Input frequency:** 50/60Hz

**PF:** ≥ .95

**THD:** ≤20%

**Surge protection:** ANSI C82.77 compliant

**Dimming:** 0-10V

**Aux. Power Tap:** 12V

**Whip/Cord:** N/A

**Optional Sensor:** Microwave, PIR, and Bluetooth options

### OPTICAL

**Beam:** 115°

**Lens:** Polycarbonate

**UGR:** 22

### PHYSICAL

**Finish:** Powder Coat

**Color:** White

**Housing:** Painted Steel

### INDUSTRY STANDARDS/RATINGS

**IP:** 20

**IK:** N/A

**Location:** Damp

**IC:** Yes

**UL:** No

**ETL:** Yes

**FCC:** Yes

**RoHS:** Yes

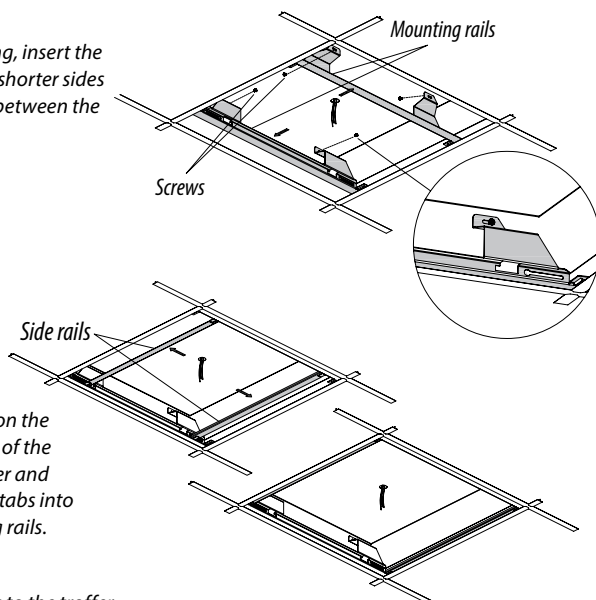
**DLC:** 5.1 Premium

**TAA:** Compliant

## PRODUCT OVERVIEW AND INSTALLATION

### STANDARD GRID CEILING MOUNTING

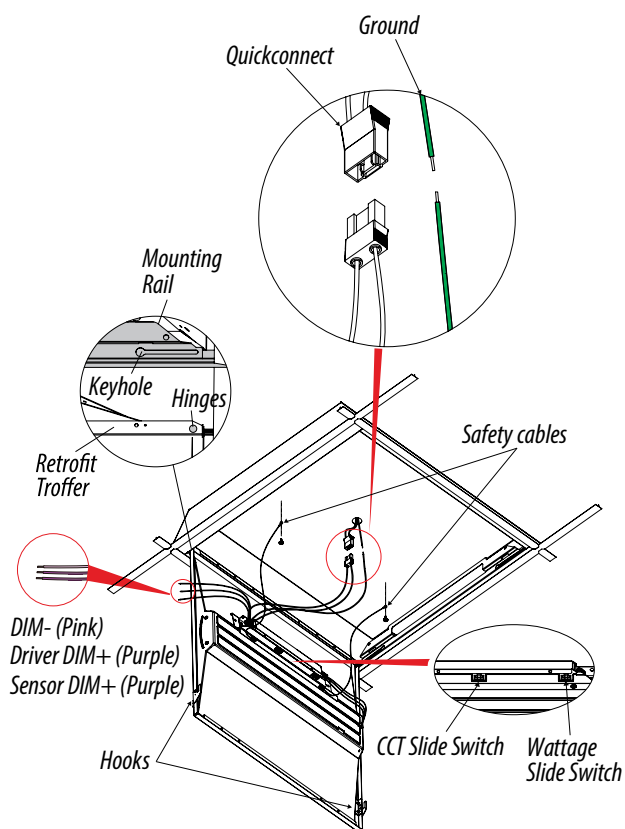
Standard ceiling mounting, insert the (2) mounting rails on the shorter sides of the troffer. Slide them between the troffer and t-grid.



Next, insert the side rails on the remaining opposite sides of the troffer, between the troffer and t-grid, and insert the end tabs into the slots on the mounting rails.

Secure the mounting rails to the troffer using the included self-drilling screws.

### RETROFIT WIRING



## ORDERING INFORMATION





Listed below are the max wattage and lumens for each model number.

Part	Description	Size	Watts	Volts	CCT	Lumens
VRT4S	LED Volumetric Troffer Retrofit Watt/CCT Selectable With Sensor Socket	2 x 4	25   30   40   45   50	120-277	3000   3500   4000   5000   6000	3125   3750   5000   5625   6250
VRT2S	LED Volumetric Troffer Retrofit Watt/CCT Selectable With Sensor Socket	2 x 2	18   20   25   30   36	120-277	3000   3500   4000   5000   6000	2250   2500   3125   3750   4500
VRT1S	LED Volumetric Troffer Retrofit Watt/CCT Selectable With Sensor Socket	1 x 4	18   20   25   30   36	120-277	3000   3500   4000   5000   6000	2250   2500   3125   3750   4500






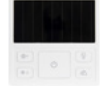


**Disclaimer:** Specifications are subject to change without notice. While Litetronics makes every effort to ensure accuracy, we do not guarantee the completeness or reliability of the information provided. For the most current product data, please visit [www.litetronics.com](http://www.litetronics.com).

## ACCESSORIES

### Accessories - Emergency Battery Backup

Ordering Code	Image	Description	Usage
EB10		10W Emergency Battery Backup	Supplies battery backup to an individual fixture for up to 90 minutes. <u>Must be ordered with EBCM or EBAM indicator module. Field installed.</u>
EBCM		Ceiling-mounted Indicator Module	This Ceiling-mounted Indicator Module (EBCM) can be used with one of Litetronics' emergency battery backup products (EB10, EB10N or EB20) to provide a visual confirmation of the operational status of the EBB unit. This module is typically used in grid ceiling applications where it is recess mounted in a panel adjacent to the fixture.
EBAM		Adhesive-mounted Indicator Module	This Adhesive-mounted Indicator Module (EBAM) must be used with one of Litetronics' emergency battery backup products (EB10, EB10N or EB20) to provide a visual confirmation of the operational status of the EBB unit. This module is typically used in open ceiling or drywall ceiling applications where the module is applied to the side of the fixture, mounting kit, or a nearby structural element.
TR01		Test Remote Control	Used for testing and demonstrating the functionality of EB10 emergency battery backup integrated products. <ul style="list-style-type: none"> <li>Only one remote required per area, building or site as necessary.</li> </ul>

### Accessories - Bluetooth Sensor, Control and Switch Accessory

Ordering Code	Image	Description	Usage
SC010		Pluggable Bluetooth PIR Sensor with IR	This sensor enables wireless control of fixtures, or groups of fixtures, through the LiteSmart mobile app.
BCM01		Pluggable Bluetooth Control Module with IR	Designed to work in conjunction with an SC010-equipped fixture. Provides Bluetooth wireless control for additional fixtures through the LiteSmart mobile app without requiring each fixture to have its own PIR sensor. Enables cost-effective control of multiple fixtures within the same space.
SCR054		Remote Control	Used to Commission LiteTronics "Next Generation" LiteSmart IR-Enabled sensors.
SC013		Pluggable PIR Sensor	Provides PIR motion sensing and IR communication for occupancy detection and control of individual fixtures. Does not include Bluetooth capability or LiteSmart app connectivity. Can be programmed through remote control SCR053.
SCR053		Remote Control for plug-in PIR Microwave sensors	Used to adjust sensor settings after installation, from the ground. (For SC013)
BCS02		Solar Bluetooth control switch	Control functionality of the fixture; on/off, dimming, daylight harvesting and scene selection with solar power.
BCS03*		Bluetooth button battery powered wall switch	Used to control functionality of the fixture; on/off, dimming, daylight harvesting and scene selection. Dimensions: 1-1/4" width x 2 5/8" height x 1/2" depth.
BCS05*		Bluetooth 7 Button AC Powered Wall Switch 120-277V	AC powered wall switch used to control functionality of the fixture; on/off, dimming and scene selection.

**Note:** Switches don't have CCT or wattage selectable capability.

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## WIRELESS CONTROL

The LED Volumetric Retrofit Troffer uses Bluetooth technology for a completely wireless connection to your smart phone or remote wall switch.



*Set up and manage your space with LiteSmart.*

*Use the remote switch for everyday control.*



**LITESMART**  
by Litetronics

LiteSmart is a mobile app that enables total management of lighting systems at the touch of your fingers. Within the app, all Smart LED Volumetric Troffer functionality can be set up and controlled, including power, dimming, grouping, scene creation and time scheduling. Adjustments can also be made to the occupancy sensor and daylight harvesting settings, then implemented across an entire group in seconds.

### BENEFITS

- Total control over your lighting system
- Quick and easy changes that can be implemented in seconds across a group of fixtures
- Further energy reduction via occupancy sensing, daylight harvesting and max wattage control
- Ability to create custom scenes based on specific needs, such as presentations
- Time scheduling that sets hours of operation per day

### NETWORK CAPABILITIES

- Unlimited admins and guests can be added to each network
- Each network supports up to 100 fixtures
- Individual fixtures can belong to up to 32 groups
- Up to 127 scenes can be created from one network
- Up to 10 switches can be created from one network



## WIRELESS SWITCH

Part #BCS02,  
BCS03 or BCS05

The Bluetooth control switch comes in handy for the daily occupants of a space. This switch, which can be wall mounted, enables quick adjustments to be made to a specific group of fixtures. Features include on/off, dimming, daylight harvesting and scene selection. The switch must be set up through the LiteSmart mobile app, but can then function on it's own within any space.

### BENEFITS

- Control over key functions for a specific group of lights
- Adjustments are quick and easy, and create an optimized space for a variety of needs
- Further reduce energy via daylight harvesting function, or disable daylight harvesting for full brightness
- Ability to choose between custom scenes based on specific needs within the space

### SWITCH CAPABILITIES

- Enable/disable auto daylight harvesting
- Brighten/dim a group or turn on/off the entire group of fixtures
- Program up to 3 scenes per switch

## HAVE QUESTIONS?

Our Customer Service team can help. Call us at 800-860-3392 or send an email to [customerservice@litetronics.com](mailto:customerservice@litetronics.com)

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