LITETRONICS®

LED SMART VOLUMETRIC TROFFER
with Integrated Programmable Controls

DESCRIPTION

The LED Smart Volumetric Troffer brings a new level of control and convenience to interior grid ceiling applications. Equipped with an on-board sensor that supports both occupancy sensing and daylight harvesting, this LED luminaire is the ultimate energy reduction tool. And while this functionality comes standard out of the box, it can be fully customized with just a few taps to your mobile device. Our new mobile app, LiteSmart, enables fixtures in a space to be grouped together and function as one; they can be turned on/off, dimmed, or programmed based on your schedule. Settings
can be adjusted and pushed live in seconds. Custom scene configurations can also be created to meet the various
needs of the space.

Installation is simple and quick; this LED panel upgrade fits seemlessly into all standard 2' x 4', 2' x 2' or 1' x 4' grid
ceiling layouts. Once installation is complete, all functionality can be set up via LiteSmart, then controlled through the app or a wireless remote switch.

The LED Smart Volumetric Troffer delivers up to 125 lumens per watt (LPW) over the course of it's 100,000-hour rated life. It ensures long-term energy savings over traditional fluorescent bulbs and ballasts, as well as eliminates routine maintenance, making it perfect for updating existing grid ceiling layouts or implementing in new construction.Furthermore, it's backed by an industry-leading 10-year warranty, guaranteeing peace of mind for the life of your fixture.

FEATURES

- Wireless control via mobile app or bluetooth wall switch (optional)
- Daylight harvesting
- Occupancy sensing
- 100,000-hour rated life
- 10-year warranty
- Suitable for damp locations
- Continuous dimming
- DLC Premium
- Compatible with Emergency Battery Backup

APPLICATIONS

- Drop/grid ceilings
- Fluorescent troffer replacements

MARKETS

- Schools and universities
- Offices and municipal buildings
- Healthcare facilities and hospitals

CERTIFICATIONS

DLC LISTED PREMIUM™   ETL LISTED US   FC FEDERAL COMMUNICATIONS COMMISSION · USA ·   RoHS Compliant

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SPECIFICATIONS

Life (@L70): 100,000 hours (@L70)
Warranty: 10 years

PERFORMANCE

Operating temp: -4°F to 113°F (-20°C to 45°C)
Efficacy (LPW): 125 LPW
CRI: 80

ELECTRICAL

Input voltage: 120-277V
Input frequency: 50/60Hz
PF: ≥.95
THD: N/A
Surge protection: ANSI C82.77 compliant
Dimming: Continuous dimming (0-100%)
Minimum dimming: N/A
Aux. Voltage: No
Driver CL: N/A
Whip/Cord: No
Sensor: Bluetooth for Daylight & Motion Sensing

OPTICAL

Beam: N/A
Lens: Polycarbonate Frosted
UGR: N/A

PHYSICAL

Finish: Smooth
Color: White
Housing: Painted Steel

INDUSTRY STANDARDS/RATINGS

IP: N/A
IK: N/A
Location: Damp
IC: Yes
UL/ETL: ETL
FCC: Yes
RoHS: Yes
DLC: 5.1 Premium

MOUNTING

Standard: T-bar grid (drop ceilings)
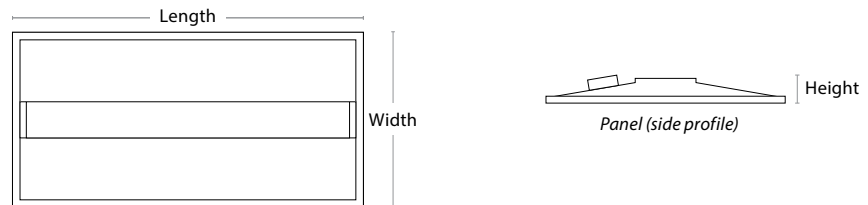**Wiring access:** 1/2" trade size knockouts

ACCESSORIES
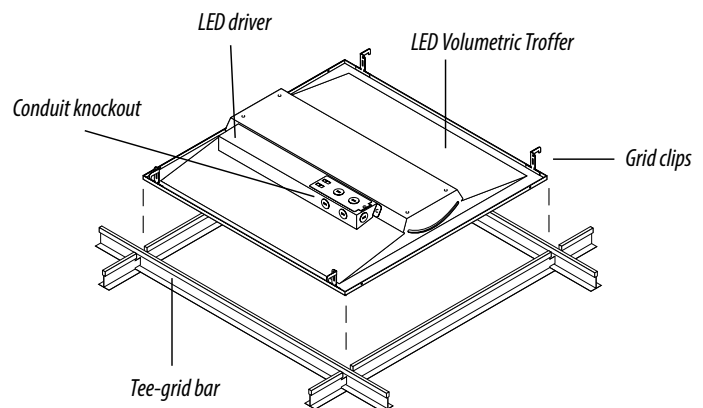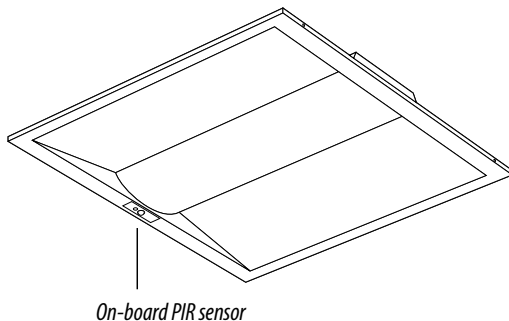
Bluetooth Contol Switch
Surface Mounting Kit
Drywall Mounting Kit
Suspension Mounting Kit

DIMENSIONS / WEIGHT

ORDER#	SIZE	LENGTH	WIDTH	HEIGHT
VLT435N	2' x 4'	47.75"	23.75"	2.875"
VLT440N	2' x 4'	47.75"	23.75"	2.875"
VLT450N	2' x 4'	47.75"	23.75"	2.875"
VLT235N	2' x 2'	23.75"	23.75"	2.875"
VLT240N	2' x 2'	23.75"	23.75"	2.875"
VLT250N	2' x 2'	23.75"	23.75"	2.875"
VLT135N	1' x 4'	47.75"	11.9"	2.875"
VLT140N	1' x 4'	47.75"	11.9"	2.875"
VLT150N	1' x 4'	47.75"	11.9"	2.875"

Length
Width
Height
Panel (side profile)

PRODUCT OVERVIEW AND INSTALLATION

On-board PIR sensor

LED driver
LED Volumetric Troffer
Conduit knockout
Grid clips
Tee-grid bar

ORDERING INFORMATION

2' X 2'

MODEL #	DESCRIPTION	WATTAGE	CCT	LUMENS
VLT235N	2X2 LED Smart Volumetric Troffer | 36W | 3500K	36	3500	4,500
VLT240N	2X2 LED Smart Volumetric Troffer | 36W | 4000K	36	4000	4,500
VLT250N	2X2 LED Smart Volumetric Troffer | 36W | 5000K	36	5000	4,500

2' X 4'

MODEL #	DESCRIPTION	WATTAGE	CCT	LUMENS
VLT435N	2X4 LED Smart Volumetric Troffer | 50W | 3500K	50	3500	6,250
VLT440N	2X4 LED Smart Volumetric Troffer | 50W | 4000K	50	4000	6,250
VLT450N	2X4 LED Smart Volumetric Troffer | 50W | 5000K	50	5000	6,250

1' X 4'

MODEL #	DESCRIPTION	WATTAGE	CCT	LUMENS
VLT135N	1X4 LED Smart Volumetric Troffer | 36W | 3500K	36	3500	4,500
VLT140N	1X4 LED Smart Volumetric Troffer | 36W | 4000K	36	4000	4,500
VLT150N	1X4 LED Smart Volumetric Troffer | 36W | 5000K	36	5000	4,500

BLUETOOTH CONTROL SWITCHES

MODEL #	DESCRIPTION	USAGE
BCS01	Bluetooth control switch (batteries needed)	Used to control functionality of the fixture; on/off, dimming, daylight harvesting and scene selection.
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.

BCS02   BCS03

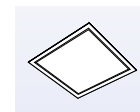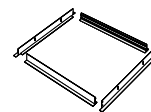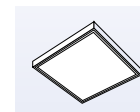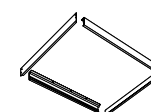Note: Switches don't have CCT selectable capability.

DRYWALL MOUNT KIT

MODEL #	DESCRIPTION	USAGE	OUTSIDE DIMENSIONS
FPAM224	2x4 Drywall Mount Kit	Recess mount 2x4 Panels in ceiling surfaces	47.85" x 23.94" x 2.44"
FPAM222	2x2 Drywall Mount Kit	Recess mount 2x2 Panels in ceiling surfaces	24.07" x 23.94" x 2.44"
FPAM221	1x4 Drywall Mount Kit	Recess mount 1x4 Panels in ceiling surfaces	47.85" x 11.97" x 2.44"

SURFACE MOUNT KIT

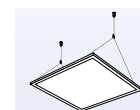| MODEL #	DESCRIPTION	USAGE	OUTSIDE DIMENSIONS
PTAM204	2x4 Surface Mount Kit	Surface mount 2x4 Panels to ceiling surfaces	47.85" x 23.94" x 3.1875"
PTAM202	2x2 Surface Mount Kit	Surface mount 2x2 Panels to ceiling surfaces	24.07" x 23.94" x 3.1875"
PTAM301	1x4 Surface Mount Kit	Surface mount 1x4 Panels to ceiling surfaces	47.85" x 11.97" x 3.1875"

SUSPENSION MOUNT KIT

MODEL #	DESCRIPTION	USAGE	WEIGHT RATING	DISTANCE FROM CEILING
PTAM214	2x4 Suspension Mount Kit	Suspend 2x4 Panels from ceiling	25 lbs	4.45'
PTAM212	2X2 Suspension Mount Kit	Suspend 2x2 Panels from ceiling	25 lbs	4.45'
PTAM211	1X4 Suspension Mount Kit	Suspend 1x4 Panels from ceiling	25 lbs	4.45'

Cable Length is 5'

EMERGENCY BATTERY BACKUP

MODEL #	DESCRIPTION	USAGE
EB10N	10W Emergency Battery Backup	Supplies battery backup to an individual fixture for up to 90 minutes. Must be ordered with EBCM or EBAM indicator module.
EBCM	Ceiling-mounted Indicator Module	In grid ceiling applications, this unit connects to the EB10 and is recess mounted in an adjacent panel where it displays the unit's current status of operation.
EBAM	Adhesive-mounted Indicator Module	In drywall/open ceiling applications, this unit connects to the EB10 and is mounted via adhesive, where it displays the unit's current status of operation.

EB10N

EBAM

EBCM

WIRELESS CONTROL

The LED Smart Volumetric 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 LED Smart Volumetric Troffer functionality can be set up and controlled; on/off, 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
- BLE 485 module for communication with BMS with open source 4 RS ports

Download on the App Store

GET IT ON Google Play

WIRELESS SWITCH
Part # BCS02 or BCS03

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