



## VOLUMETRIC SELECTABLE TROFFER

### PRODUCT OVERVIEW

SCAN OR  
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## FEATURES

- Ultra-shallow 2.1" depth ideal for low plenum spaces, with a matte white post-paint finish for uniform, indirect illumination.
- Supports grid, flange, and surface mounting for easy installation in diverse applications.
- Available in 1x4, 2x2, and 2x4 sizes, with field-selectable or factory-set lumen outputs ranging from 2,600-7,400 lumens.
- Field-selectable or factory-set CCT options (3500K, 4000K, and 5000K)
- Delivers up to 150 lm/W efficacy, >80 CRI, and supports integrated wireless control options for enhanced energy savings.
- Calculated L70 >100,000 hours, ambient temperature range of -4°F to 104°F, 0-10V Dimmable Driver (100%-10%)
- Buy American Act (BAA) option available
- DLC® Premium qualified and ETL listed, backed by a 5-year standard warranty (10-year optional)

## CERTIFICATIONS



## SPECIFICATIONS

### CONSTRUCTION

Steel housing white finish body for rigidity, durability and ease of installation. Matte white post paint finish for uniform indirect illumination. Designed to achieve maximum performance and improved aesthetics.

### ELECTRICAL

Class 2 LED light engine for high efficacy and long life. Calculated L70 > 100,000 hrs. LED Lumen Maintenance Estimates based on TM-21 projections for the light source at 25°C ambient. Power Factor > 0.90. Standard 120-277 Vac 0-10V dimmable (10%-100%) with optional 347 Vac step down transformer. Optional emergency battery backups available to meet critical life safety lighting requirements. Lumen and CCT Selectable fixtures allow for ease of adjustment with switches located on top side of driver. Lumen Selectable fixtures ship at the highest lumen output. CCT Selectable fixtures ship at 4000K.

### INSTALLATION

VST fits into standard 9/16" & 15/16" T-grid ceiling. Optional Flange Kit (FLGK) for recessed drywall mounting & Surface Mount (SM) to ceiling mount options available. Access plate installed on top of fixture for easy hardwire power connections. Optional factory installed power flex conduit whip (MC) available to reduce electrical installation time.

## DIGITAL NAVIGATION

Explore the spec sheet through the links below

[ORDERING GUIDE](#)[CONTROLS](#)[QUICK SHIP](#)[OPTIONS](#)[LED SYSTEMS TABLE](#)[LINE DRAWINGS](#)[AMBIENT TEMP. RANGE](#)[PHOTOMETRIC DATA](#)

## SUITABLE APPLICATIONS

- Education
- Retail
- Healthcare
- Grocery Store
- Commercial Office
- Storage Facility

### OPTICS

Standard high transmission PMMA frosted polycarbonate lens. Field removable lens for easy access to LED boards, drivers and maintenance.

### CONTROLS

Factory installed Advanced and Basic sensor options available to maximize energy savings. Sensors are installed integral to the fixture body. Please see more information below on Page 3. Inquire with manufacturer for additional controls options, including customer supplied items.

### CERTIFICATIONS

ETL Listed to US and Canadian safety standards. Suitable for insulation contact with Type IC rated. Suitable for damp locations. Title 24 Compliant with sensor option; see local ordinance for qualification information. DLC (DesignLights Consortium) Premium Qualified. Please refer to the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm specific product qualifications.

### WARRANTY

5 Year Warranty Standard; 10 Year Warranty Optional ([Terms and Conditions apply](#)).



# VOLUMETRIC SELECTABLE TROFFER

## ORDERING GUIDE

PART #

Example: VST24-7L-U-CCTS-NURO

SERIES	LUMENS	DRIVER	CCT	BAA	ALT DRIVERS
VST14 1' x 4' Volumetric Troffer	2L/3L/4L Lumen Selectable 2L 2,000 lm 3L 3,000 lm 4L 4,000 lm	U 120-277V	CCTS CCT Selectable 35K/40K/50K 35 3500K 40 4000K 50 5000K	BLANK None BAA <sup>5</sup> BAA Compliant	BLANK None SR <sup>4</sup> Sensor-Ready Driver BLD <sup>4,7</sup> Bi-Level Dimming Driver DIM1 <sup>4</sup> 1% Dimming Driver
VST22 2' x 2' Volumetric Troffer	2L/3L/4L Lumen Selectable 2L 2,000 lm 3L 3,000 lm 4L 4,000 lm				
VST24 2' x 4' Volumetric Troffer	2L/3L/4L Lumen Selectable 4L/5L/6L Lumen Selectable 5L/6L/7L Lumen Selectable 2L 2,000 lm 3L 3,000 lm 4L 4,000 lm 5L 5,000 lm 6L 6,000 lm 7L 7,000 lm				

EMERGENCY	CONTROLS OPTIONS	STEP DOWN	CORD	WARRANTY
BLANK None EM5 5W LED Factory Installed Battery Backup EM5/HE <sup>1</sup> 5W LED Factory Installed Battery Backup EM7 7W LED Factory Installed Battery Backup EM7/HE <sup>1</sup> 7W LED Factory Installed Battery Backup EM10 10W LED Factory Installed Battery Backup EM10/HE <sup>1</sup> 10W LED Factory Installed Battery Backup EM10/HE/SD <sup>1</sup> 10W LED Factory Installed Self-Diagnosing Battery Backup EM12 12W LED Factory Installed Battery Backup	ADVANCED BLANK None NURO <sup>5,8</sup> NUROAir Integrated Bluetooth Groupable Sensor ESMC <sup>4,5</sup> EasySense Grouping Sensor VDO <sup>3,4</sup> Lutron Vive Daylight & Occupancy Sensor VRF <sup>3,4</sup> Lutron Vive Radio Frequency Only AWN <sup>3,4</sup> Lutron Athena Wireless Node RF Only AWNS <sup>3,4</sup> Lutron Athena Wireless Node with Sensor	BLANK None SD347 <sup>2</sup> 347V Step Down Transformer	BLANK 5 Year MCx/yW Metal Conduit (x = Length; 6,10,15) (y = # of conductors; 3,4,5,6)	BLANK 5 Year 10YR <sup>6</sup> 10 Year

### SHIP WITH ACCESSORIES

NURO-SW-3B-BA-BL-WP-V1	NUROAir Bluetooth 3-Key Wireless Battery Powered Wall Switch
NURO-SW-5B-BA-BL-WP-V1	NUROAir Bluetooth 5-Key Wireless Battery Powered Wall Switch
NURO-SW-7B-AC-BL-WP-V1	NUROAir Bluetooth 7-Key Line Voltage (AC 120-277V) Powered Wall Switch
ESMC/VWS/DR	EasySense Dual Rocker Wireless Wall Switch
+VSTxx SM	Surface Mount Kit (xx=size, 14, 22, or 24)
FLGKxx	Flange Mount Kit

### FOOTNOTES

<sup>1</sup> CEC Title 20 Compliant  
<sup>2</sup> Does not qualify for DLC

<sup>3</sup> Must be used with SR Sensor Ready Driver  
<sup>4</sup> Not compatible with the Lumen selectable and CCT selectable functions

<sup>5</sup> Easily Controlled via Mobile Phone with Bluetooth App  
<sup>6</sup> Contact factory for more details  
<sup>7</sup> Will not work with the stepdowns or sensors  
<sup>8</sup> Must be ordered with dedicated Lumen Output



## VOLUMETRIC SELECTABLE TROFFER



### QUICK SHIP ITEMS

PRODUCT	DESCRIPTION	DLC LISTING
VTK22-2L/3L/4L-U-CCTS	Volumetric Troffer Kit 2x2, Lumen Selectable -2,465 - 3,190 - 3,770lm, CCT Selectable -35-40-50K	Premium
VTK24-3L/4L/5L-U-CCTS	Volumetric Troffer Kit 2x4, Lumen Selectable -3,190 - 3,770 - 4,640lm, CCT Selectable -35-40-50K	Premium

### QUICK SHIP ACCESSORIES

NURO-SW-3B-BT-BLE-WP-V1 NUROAir Bluetooth 3-Key Wireless Battery Powered Wall Switch

NURO-SW-5B-BT-BLE-WP-V1 NUROAir Bluetooth 5-Key Wireless Battery Powered Wall Switch

NURO-SW-7B-AC-BLE-WP-V1 NUROAir Bluetooth 7-Key Line Voltage (AC 120-277V) Powered Wall Switch

ESMC/WVS/DR EasySense Dual Rocker Wireless Wall Switch

+VSTxx SM Surface Mount Kit (xx=size, 14, 22, or 24)

FLGKxx Flange Mount Kit

### FOOTNOTES

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<sup>5</sup> Easily Controlled via Mobile Phone with Bluetooth App

<sup>2</sup> Does not qualify for DLC

<sup>4</sup> Not compatible with the Lumen selectable and CCT selectable functions

<sup>6</sup> Contact factory for more details

<sup>7</sup> Will not work with the stepdowns or sensors

<sup>8</sup> Must be ordered with dedicated Lumen Output

LED SYSTEMS INFORMATION	3500K		4000K		5000K		Watts <sup>2</sup>
	Model Numbers	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy
VST14-2L/3L/4L-U-CCTS	2594/3098/3629	134/130/125	2715/3243/3834	145/142/137	2632/3143/3653	136/132/126	19/24/29
VST14-2L-U-XX	2594	134	2715	145	2632	136	19
VST14-3L-U-XX	3098	130	3243	142	3143	132	24
VST14-4L-U-XX	3629	125	3834	137	3653	126	29
VST22-2L/3L/4L-U-CCTS	2614/3114/3627	136/133/126	2781/3313/3909	150/146/141	2696/3212/3790	140/137/131	19/24/29
VST22-2L-U-XX	2614	136	2781	150	2696	140	19
VST22-3L-U-XX	3114	133	3313	146	3212	137	24
VST22-4L-U-XX	3627	126	3909	141	3790	131	29
VST24-2L/3L/4L-U-CCTS	2858/3266/3910	132/129/125	3045/3480/4172	146/143/138	2959/3381/4036	137/134/129	22/25/31
VST24-4L/5L/6L-U-CCTS	4307/4774/5474	130/127/123	4598/5097/5843	144/141/136	4451/4935/5628	134/131/126	33/38/45
VST24-5L/6L/7L-U-CCTS	5872/6508/6805	132/128/123	6264/6942/7379	146/142/139	6058/6714/7064	136/132/128	45/51/55
VST24-2L-U-XX	2858	132	3045	146	2959	137	22
VST24-3L-U-XX	3266	129	3480	143	3381	134	25
VST24-4L-U-XX	3910	125	4172	138	4036	129	31
VST24-5L-U-XX	4774	127	5097	141	4935	131	38
VST24-6L-U-XX	5474	123	5843	136	5628	126	45
VST24-7L-U-XX	6805	123	7379	139	7064	128	55

<sup>1</sup>Values are nominal, see IES file for more detail

<sup>2</sup>Electrical data at 25C (77F). Actual wattage may differ by +/-10%

## ADVANCED CONTROLS OPTIONS

## NUROAir by ILLUMUS

## NURO

NUROAir Integrated Sensor is the optimal groupable controls lighting solution. With main features such as Passive Infared (PIR), Occupancy, and Daylight Harvesting - this flexibility makes the NUROAir Integrated Sensor ideal for tailoring lighting to specific space needs, optimizing both ambiance and efficiency. The NUROAir App, available for download on iOS and Google Play Store, offers a user-friendly interface for customization of your space. Through the app, users can configure sensor settings such as the Light Output, CCT output, Hold Time, Standby Time/Level, High/Low End Trim, set schedules, and control lighting groups or zones, all from a mobile or tablet device.



POWERED BY ILLUMUS® BRANDS



[Click Here or Scan Code  
to Learn More About](#)

**NUROAir Bluetooth Controls**

## EASYSENSE

## ESMC

EasySense sensor combines occupancy sensing, daylight harvesting and institutional tuning in one compact solution. This is an ideal control for any Commercial application. Each device allows you to turn on/off occupancy and/or daylight harvesting functions as well as set the full light output, background light level, occupancy prolong time, occupancy grace fading time & occupancy time out/hold time. It can be easily controlled via the Philips MasterConnect Bluetooth App on a mobile phone.



## ESMC/WWS/DR

Optional Wireless / Batteryless Dual Rocker Wall Switch. Up to 100ft range. Functions include: On/Off, dimming and setting of (2) scenes for full room control.

## Specifications:

- Wireless
- ZigBee®
- Batteryless
- 30-100ft Range
- Dual Rocker

## Functions:

- 1. On (Hold to brighten up)
- 2. Off (Hold to dim down)
- 3. Scene 1
- 4. Scene 2

## ADVANCED CONTROLS OPTIONS (Continued)

## LUTRON

## VDO

Vive DFCSJ-OEM-OCC integral fixture control sensor with daylight & occupancy. Vive provides intuitive programming allowing for maximum flexibility with wireless communication & sensing as desired. Provided with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information.



## VRF

Vive DFCSJ-OEM-RF integral fixture control with Radio Frequency (RF) communication. Vive provides intuitive programming allowing for maximum flexibility with wireless communication as desired. Provided with factory installed components only. Lutron system provided by others. Sensor must be used in conjunction with Pico Switch/Dimmer. Cannot be used in conjunction with mechanical on/off power switch. Contact factory for more information.



## AWN

Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system. Enables individual wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring. All drivers on the link are controlled as a single zone. Provided with factory installed components only. Lutron Athena system provided by others.



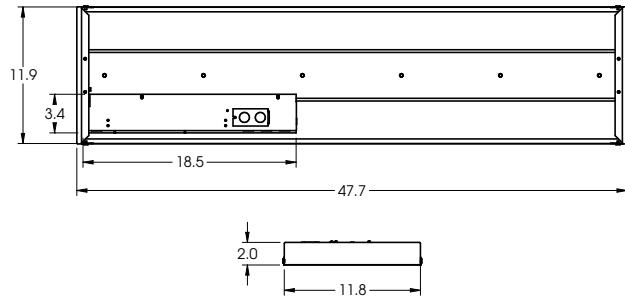
## AWNS

Athena wireless node with a sensor that enables simple, digital control of individual light fixtures in an Athena control system. Provides wireless control of the fixture and includes a passive infrared (PIR) sensor for occupancy and a daylight sensor. Enables individual wireless control of each fixture in an Athena control system. Accommodates zone and control changes without rewiring. All drivers on the link are controlled as a single zone. Provided with factory installed components only. Lutron Athena system provided by others.

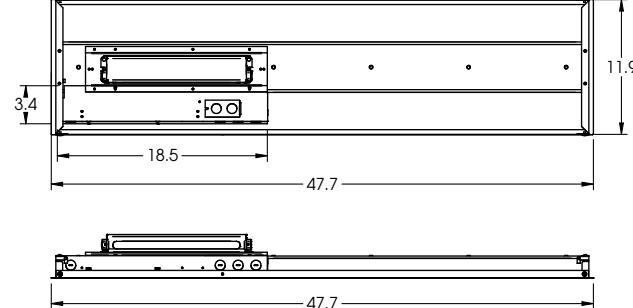


## LINE DRAWINGS

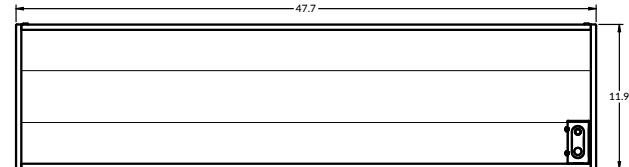
## VST14



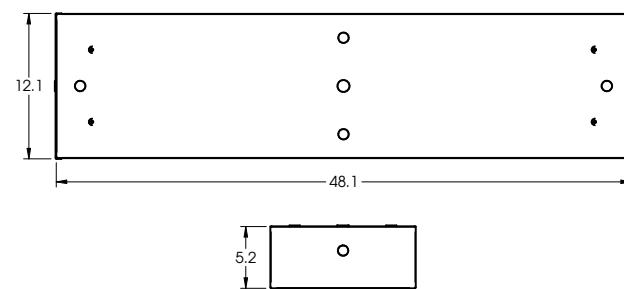
## VST14 with EM10



## VST14 with ESMC

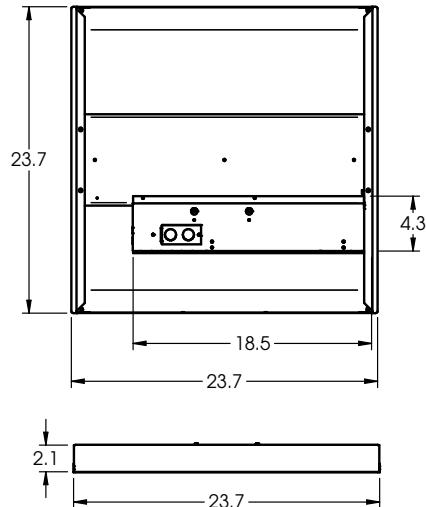


## VST14 with Surface Mount

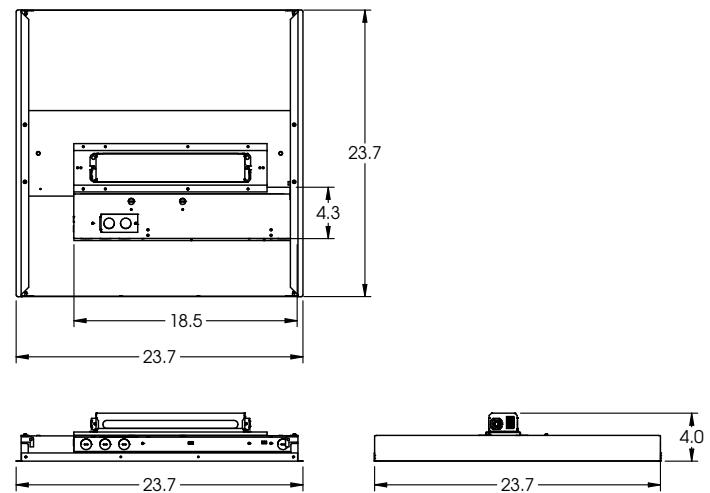


## LINE DRAWINGS CONTINUED

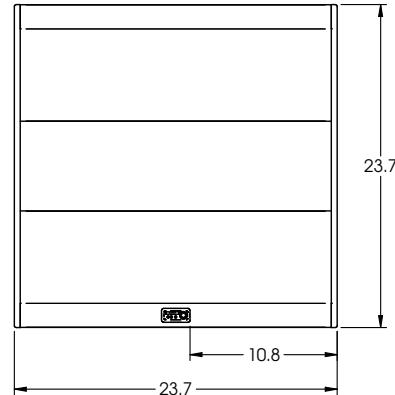
VST22



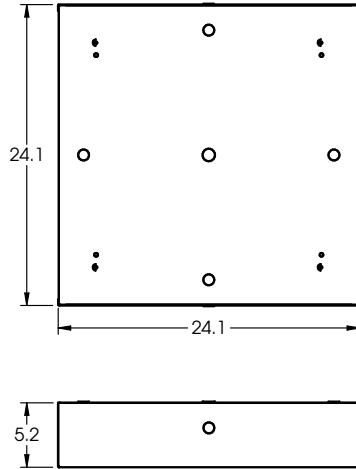
VST22 with EM10



VST22 with ESMC

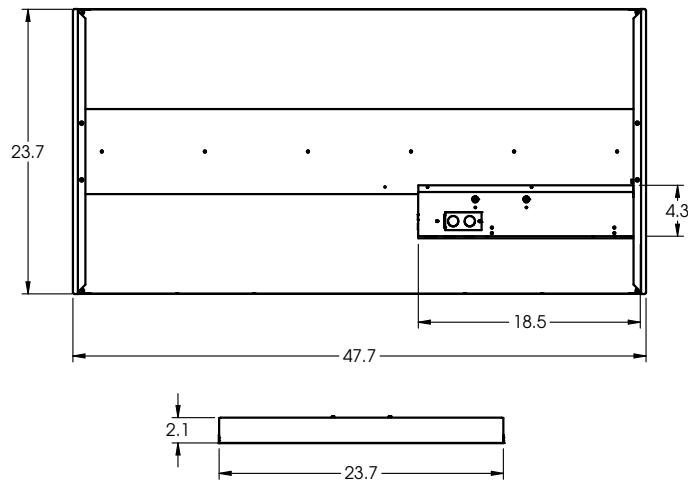


VST22 with Surface Mount

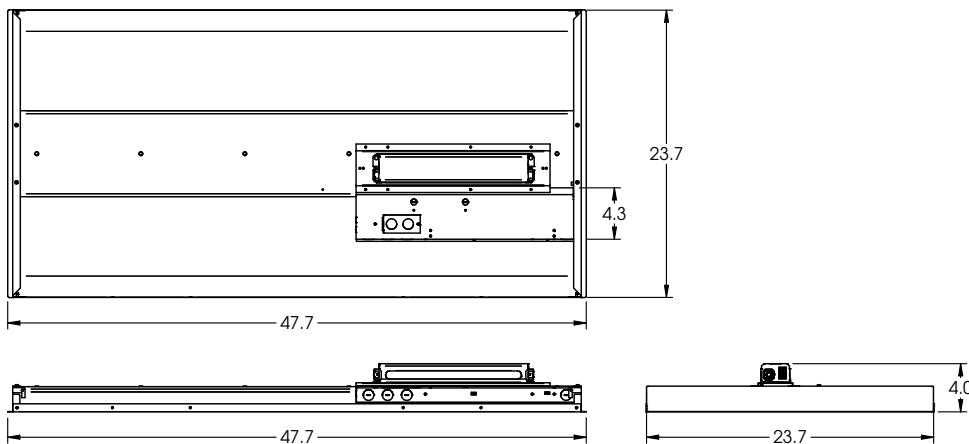


## LINE DRAWINGS CONTINUED

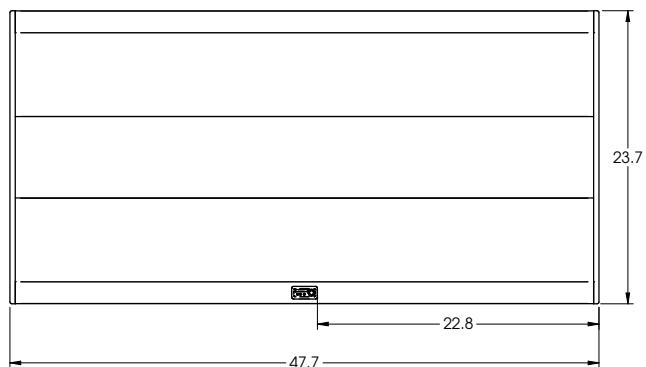
## VST24



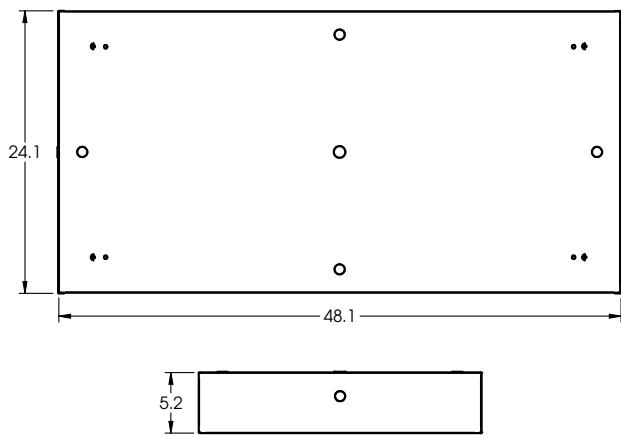
## VST24 with EM10



## VST24 with ESMC



## VST24 with Surface Mount



## PHOTOMETRIC DATA

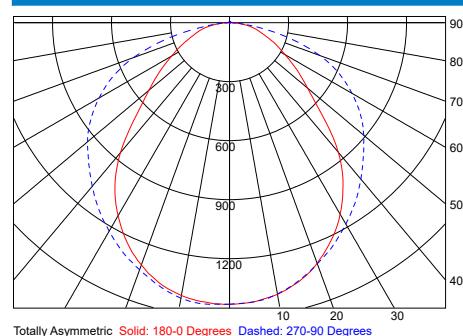
## LUMINAIRE DATA

Part Number	VST14-2L/3L/4L-U-CCTS
Description	1x4 Volumetric Selectable Troffer, 4000lm, 4000K
Fixture Lumens (lm)	3,834 lm
Wattage (W)	27.9 W
Efficacy (lm/W)	137 lm/W
Mounting	Recessed

## ZONAL LUMEN SUMMARY

Zone	Lumens (lm)	% Fixture
0° - 40°	1,774	46%
0° - 60°	3,032	79%
0° - 90°	3,923	99%
90° - 180°	11	1%
0° - 180°	3,834	100%

## CANDELA PLOT



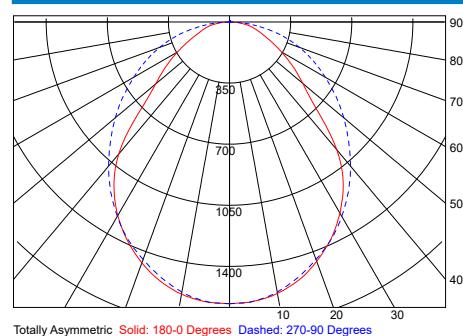
## LUMINAIRE DATA

Part Number	VST22-2L/3L/4L-U-CCTS
Description	2x2 Volumetric Selectable Troffer, 4000lm, 4000K
Fixture Lumens (lm)	3,910 lm
Wattage (W)	27.7 W
Efficacy (lm/W)	141 lm/W
Mounting	Recessed

## ZONAL LUMEN SUMMARY

Zone	Lumens (lm)	% Fixture
0° - 40°	1,947	50%
0° - 60°	3,179	81%
0° - 90°	3,898	99%
90° - 180°	11	1%
0° - 180°	3,910	100%

## CANDELA PLOT



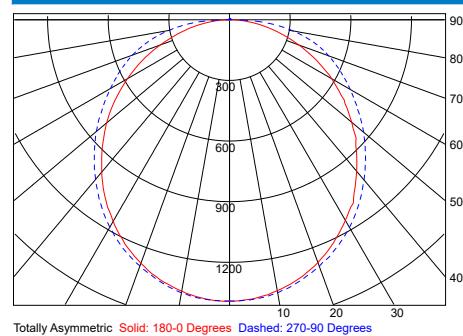
## LUMINAIRE DATA

Part Number	VST24-2L/3L/4L-U-CCTS
Description	2x4 Volumetric Selectable Troffer
Fixture Lumens (lm)	4,172 lm
Wattage (W)	30.3 W
Efficacy (lm/W)	138 lm/W
Mounting	Recessed

## ZONAL LUMEN SUMMARY

Zone	Lumens (lm)	% Fixture
0° - 40°	1,757	42%
0° - 60°	3,117	75%
0° - 90°	4,161	99%
90° - 180°	12	1%
0° - 180°	4,172	100%

## CANDELA PLOT



## LUMINAIRE DATA

Part Number	VST24-4L/5L/6L-U-CCTS
Description	2x4 Volumetric Selectable Troffer
Fixture Lumens (lm)	5,844 lm
Wattage (W)	42.8 W
Efficacy (lm/W)	136 lm/W
Mounting	Recessed

## ZONAL LUMEN SUMMARY

Zone	Lumens (lm)	% Fixture
0° - 40°	2,462	42%
0° - 60°	4,365	75%
0° - 90°	5,827	99%
90° - 180°	17	1%
0° - 180°	5,844	100%

## CANDELA PLOT

