



FEATURES

- Highly Versatile Volumetric Selectable Troffer
 2.1" Depth for Shallow Plenum Applications
 Matte White Post Paint Finish for Uniform Indirect Illumination
- Shallow Depth Design for Low Plenum Applications

- Grid, Flange, & Surface Mounting Options
 1'x4', 2'x2', and 2'x4' Sizes
 Field Selectable or Factory Set Lumen Output - 2,600 - 7,400 Lumens Delivered Lumen Range
- Field Selectable or Factory Set CCT
 3500K, 4000K, & 5000K CCT

 Integrated Wireless Controls Options
 High Efficacy—Up to 150 lm/W
 > 80 Color Rendering index (CRI)

- 0-10V Dimmable Driver (100%-10%)
- 120-277V Universal Voltage
- Bi-Level & 1% Dimming Driver Options
- Calculated L70 >100,000hrs
- Ambient Temperature Range (-4F to 104F)
 5 Year Warranty (std); 10 Year Warranty Optional
- ETL Listed
- DesignLights Consortium® Premium Qualified Luminaire





















SUITABLE APPLICATIONS

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

ORDERING GUIDE:

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	SERIES	LUMENS (select one)	DRIVER	ССТ	WARRANTY
VST14	1'x4' Volumetric Troffer	2L/3L/4L - Lumen Selectable 2L 3L 4L	U 120-277V	CCTS - CCT Selectable 35K - 40K - 50K 35 40 50	(Blank) 5YR 10YR 10YR
VST22	2'x2' Volumetric Troffer	2L/3L/4L - Lumen Selectable 2L 3L 4L			
VST24	2'x4' Volumetric Troffer	2L/3L/4L - Lumen Selectable 2L 3L 4L			
		4L/5L/6L - Lumen Selectable 4L 5L 6L			
		5L/6L/7L - Lumen Selectable 5L 6L 7L			
		DTIONS		CONTROLS	

OPTIONS			CONTROLS		
Factory Installed			Advanced		
SR ⁴	Sensor-Ready Driver	ESMC 4,5	EasySense Grouping Sensor		
BLD⁴	Bi-Level Dimming Driver	5E/2W/CL 3,4,5	Enlighted 5E Two Wire Connected Lighting (CL) Sensor		
DIM1⁴	1% Dimming Driver	5E/2W/IOT 3,4,5	Enlighted 5E Two Wire IOT Lighting (IOT) Sensor		
EM5	5W LED Factory Installed Battery Backup	VDO 3,4,5	Lutron Vive Daylight & Occupancy Sensor		
EM5/HE ¹	5W LED Factory Installed Battery Backup	VRF 3,4	Lutron Vive Radio Frequency Only		
EM7	7W LED Factory Installed Battery Backup	AWNR 3,4	Lutron Athena Wireless Node RF Only		
EM7/HE ¹	7W LED Factory Installed Battery Backup	AWNS 3,4,5	Lutron Athena Wireless Node with Sensor		
EM10	10W LED Factory Installed Battery Backup				
EM10/HE ¹	10W LED Factory Installed Battery Backup		Ship with Accessories		
EM10/HE/SD ¹	10W LED Factory Installed Self-Diagnosing Battery Backup	ESMC/WWS/DR ⁶	EasySense Dual Rocker Wireless Wall Switch		
EM12	12W LED Factory Installed Battery Backup	SM	Surface Mount Kit		
SD347 ²	347V Step Down Transformer	FLGK	Flange Mount Kit		
MCx/3W	Metal Conduit (x=ft), 3-wire				
MCx/4W	Metal Conduit (x=ft), 4-wire				
MCx/5W	Metal Conduit (x=ft), 5-wire				
MCx/6W	Metal Conduit (x=ft), 6-wire				

¹ CEC Title 20 Compliant ² Does not qualify for DLC

⁶ Requires Bluetooth enabled device for programming (provided by others)

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³ Must be used with SR Sensor Ready Driver

⁴ Not compatible with the Lumen selectable and CCT selectable functions

⁵ For 1x4 Version, Please Contact factory for availability





	SERIES	LUMENS (select one)	DRIVER	сст
VST14	1x4 Volumetric Troffer	2L/3L/4L - Lumen Selectable	U 120-277V	CCTS - CCT Selectable (3500K, 4000K, 5000K)
VST22	2x2 Volumetric Troffer	2L/3L/4L - Lumen Selectable		
VST24	2x4 Volumetric Troffer	2L/3L/4L - Lumen Selectable		
		4L/5L/6L - Lumen Selectable		
		5L/6L/7L - Lumen Selectable		

D SYSTEMS INFORMATION		350	00K	40	00K	50	00K	
Model Numbers	Fixed Model Numbers	Lumens	Efficacy	Lumens	Efficacy	Lumens	Efficacy	Watts
	VST14-2L-U-XX	2,594	134	2,715	145	2,632	136	19W
VST14-2L/3L/4L-U-CCTS	VST14-3L-U-XX	3,098	130	3,243	142	3,143	132	24W
	VST14-4L-U-XX	3,629	125	3,834	137	3,653	126	29W
	VST22-2L-U-XX	2,614	136	2,781	150	2,696	140	19W
VST22-2L/3L/4L-U-CCTS	VST22-3L-U-XX	3,114	133	3,313	146	3,212	137	24W
	VST22-4L-U-XX	3,627	126	3,909	141	3,790	131	29W
	VST24-2L-U-XX	2,858	132	3,045	146	2,959	137	22W
VST24-2L/3L/4L-U-CCTS	VST24-3L-U-XX	3,266	129	3,480	143	3,381	134	25W
	VST24-4L-U-XX	3,910	125	4,172	138	4,036	129	31W
	VST24-4L-U-XX	4,307	130	4,598	144	4,451	134	33W
VST24-4L/5L/6L-U-CCTS	VST24-5L-U-XX	4,774	127	5,097	141	4,935	131	38W
	VST24-6L-U-XX	5,474	123	5,843	136	5,628	126	45W
	VST24-5L-U-XX	5,872	132	6,264	146	6,058	136	45W
VST24-5L/6L/7L-U-CCTS	VST24-6L-U-XX	6,508	128	6,942	142	6,714	132	51W
	VST24-7L-U-XX	6,805	123	7,379	139	7,064	128	55W

¹Values are nominal, see IES file for more detail

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.

OPTICS

Standard high transmission PMMA frosted polycarbonate lens. Field removeable 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 to confirm specific product qualifications.

WARRANTY

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

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



ADVANCED CONTROLS OPTIONS

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) scences for full room control.

Specifications:

- Wireless
- ZigBee®
- yless 30-100ft Range
- BatterylessDual Rocker

Functions:

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



ENLIGHTED

5E/2W/CL

Bundled System with Enlighted 5E sensor (SU-5E-CL), Cable (CBL-5E-CU4-30N) and Sensor Ready SR Driver. Fixtures are controlled based on occupancy and ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. The Energy Manager provides data analysis for all data collected by the Enlighted Smart Sensors for energy, occupancy and environment. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)



5E/2W/IOT

Bundled System with Enlighted 5E sensor (SU-5E-IOT), Cable (CBL-5E-CU4-30N) and Sensor Ready SR Driver. Fixtures are controlled based on occupancy and ambient light. Includes individual lighting control plus connection to Enlighted Energy Manager. Energy Manager provides data analysis for all data collected by Enlighted Smart Sensors for energy, occupancy & environment. Additionally, the IOT functionality takes the data access and function beyond just lighting to a wide range of applications beyond the standard connected lighting controls. Provided with factory installed components only. Enlighted system provided by others. Contact factory for more information. (see image above)

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.



AWNR

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.



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.



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.

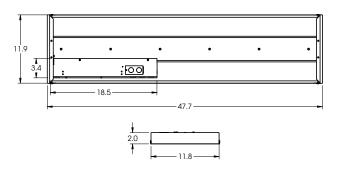


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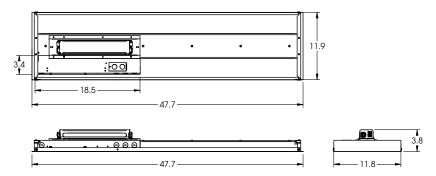


LINE DRAWINGS

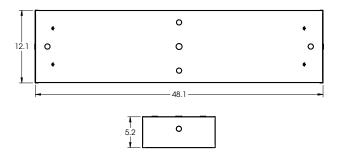
1x4 Dimensions



1x4 Dimensions with EM10



1x4 Dimensions with Surface Mount

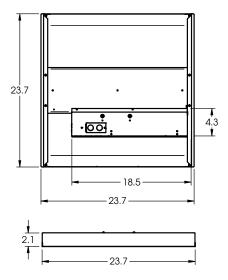


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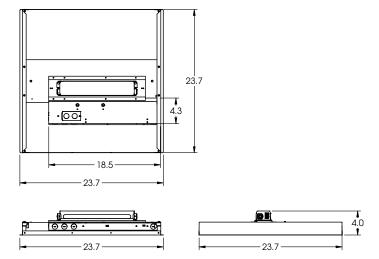


LINE DRAWINGS

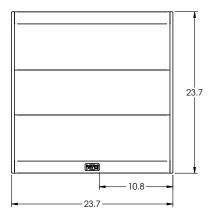
2x2 Dimensions



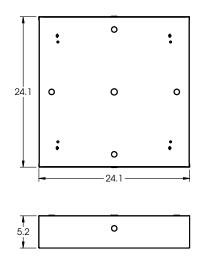
2x2 Dimensions with EM10



2x2 Dimensions with ESMC



2x2 Dimensions with Surface Mount

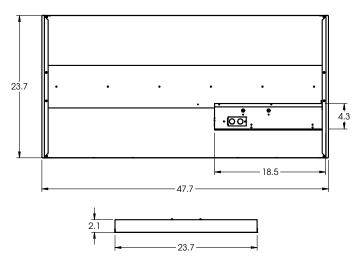


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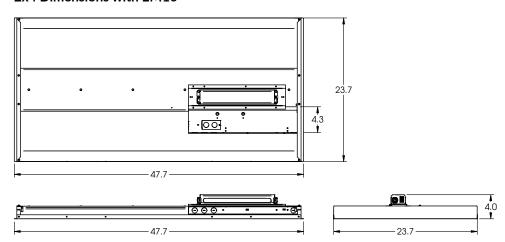


LINE DRAWINGS

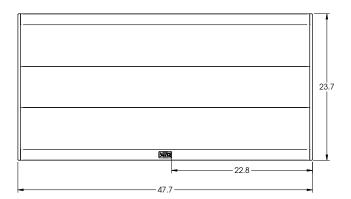
2x4 Dimensions



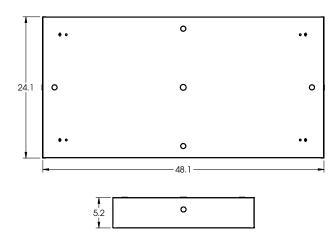
2x4 Dimensions with EM10



2x4 Dimensions with ESMC



2x4 Dimensions with Surface Mount

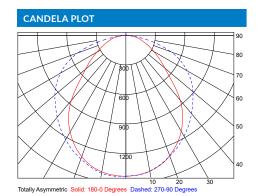




PHOTOMETRIC DATA

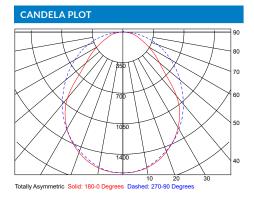
LUMINAIRE DATA	
Part Number	VST14-2L/3L/4L-U-CCTS
Description	1x4 Volumetric Selectable Troffer, 4000lm, 4000K
Fixture Lumens (Im)	3,834 lm
Wattage (W)	27.9 W
Efficacy (Im/W)	137 lm/W
Mounting	Recessed

ZONAL LUMEN SUMMARY				
Zone	Lumens (Im)	% 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%		



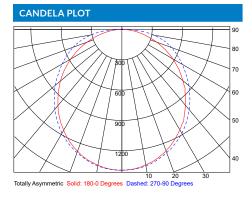
LUMINAIRE DATA		
Part Number	VST22-2L/3L/4L-U-CCTS	
Description	2x2 Volumetric Selectable Troffer, 4000lm, 4000K	
Fixture Lumens (Im)	3,910 lm	
Wattage (W)	27.7 W	
Efficacy (Im/W)	141 lm/W	
Mounting	Recessed	

	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%			



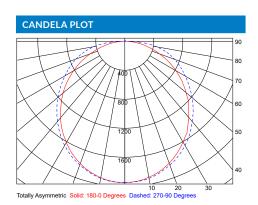
LUMINAIRE DATA	
Part Number	VST24-2L/3L/4L-U-CCTS
Description	2x4 Volumetric Selectable Troffer
Fixture Lumens (Im)	4,172 lm
Wattage (W)	30.3 W
Efficacy (lm/W)	138 lm/W
Mounting	Recessed

ZONAL LUMEN SUMMARY			
Zone	Lumens (Im)	% 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%	



LUMINAIRE DATA		
Part Number	VST24-4L/5L/6L-U-CCTS	
Description	2x4 Volumetric Selectable Troffer	
Fixture Lumens (Im)	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%		



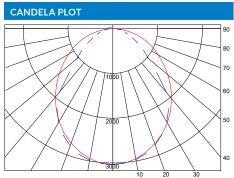
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PHOTOMETRIC DATA

LUMINAIRE DATA	MINAIRE DATA		
Part Number	VST24-5L/6L/7L-U-CCTS		
Description	2x4 Volumetric Selectable Troffer		
Fixture Lumens (Im)	7,380 lm		
Wattage (W)	53.0 W		
Efficacy (lm/W)	139 lm/W		
Mounting	Recessed		

ZONAL LUMEN SUMMARY			
Zone	Lumens (Im)	% Fixture	
0° - 40°	3,109	42%	
0° - 60°	5,512	75%	
0° - 90°	7,359	99%	
90° - 180°	21	1%	
0° - 180°	7,380	100%	



Totally Asymmetric Solid: 180-0 Degrees Dashed: 270-90 Degrees