Columbia LIGHTING

VSY12
VERSIFY™ 1'X2' ARCHITECTURAL EDGE-LIT

Versify

FEATURES

- Architectural styling in an edge-lit luminaire
- High efficiency acrylic lens featuring edge lit technology
- Ideal for offices, schools, medical, and public spaces
- Available in trendy matte black finish
- Stylish controls integration
- Wet location option available
- 2" overall depth, 2 ¼" with emergency battery pack option
- Surface mount kit available as an accessory
- Up to 140 lumens per watt

Matte Black Finish

Certification badges: CSAus, Built to UL 924 Standards, DLC LISTED, DLC LISTED PREMIUM, TAA (IN ACCORDANCE WITH THE TRADE AGREEMENTS ACT), UL Sanitation, ISO 5, CP Chicago Plenum, IP5X

CONTROLS TECHNOLOGY

SpectraSync Color Tuning Technology

NX WIRELESS | NX WIRED | NX CONNECT | OCCUPANCY SENSING | DAYLIGHT HARVESTING

Typical Dimensions and Weights

Sizes	(A) Length Inches (mm)	(B) Width Inches (mm)	(C) Height Inches (mm)	Weight lbs (kg)
1x2	23.75 (603)	11.75 (299)	2.00 (51)	10.0 (4.5)

SPECIFICATIONS

CONSTRUCTION
- Extruded aluminum side and center rails, cast aluminum end caps, cold-rolled steel driver enclosure
- Acrylic light guide and diffuser with custom frost for high efficacy without pixelation
- Rail and end cap surfaces are finished after fabrication with unique formula high-reflectivity matte white paint

INSTALLATION
- An access plate is furnished with each luminaire for fast wiring access without the necessity to open the fixture or wireway
- Luminaire fits recessed exposed Grid ceilings (G); four NEC compliant T-bar clips included
- Can be placed in Slot Grid (SG) style ceiling with regress ⅜" above ceiling plane
- A Flange Kit (FK) accessory is available for recessed hard ceiling applications
- Surface Mount (SM) accessory allows placement below ceiling plane

ELECTRICAL
- 60,000 hour LEDs at L80 for reduced maintenance
- 82 CRI standard or optional 90 CRI for color sensitive applications

CONTROLS
- Optional SpectraSync Tunable White solution integrates seamlessly into a variety of control systems
- NX Lighting Controls provides options for standalone and networked integrated sensor with wired or wireless connectivity for NX system deployments
- NX Connect is a standalone wireless deployment for room based applications using wireless enabled and battery operated devices
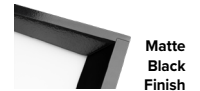
CERTIFICATIONS
- Emergency battery pack options are California Energy Commission (CEC) Title 20 Compliant
- IC label is standard for recessed products
- All luminaires are built to UL 1598 standards, and bear appropriate cCSAus labels
- CSA certified to UL 924 standards with battery pack or DTS (Dimming Bypass Module) options
- Damp Location label standard; Wet location Listing available
- UL Sanitation certified to NSF standards
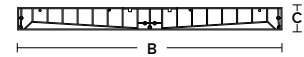
CERTIFICATIONS (CONTINUED)
- Adheres to LM79, LM80, and TM21 industry standards
- Tested in accordance with ISO 14644-1; suitable for ISO Class 5-9 positive and negative pressure clean rooms
- The DTS, Dimming Bypass Module, is for emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram.
- DLC® (DesignLights Consortium) Qualified, with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Product configurations not including battery packs or controls meet federal procurement law requirements under the Trade Agreements Act (FAR 52.225-11). See Buy America(n) Solutions

WARRANTY
- 5 year warranty

Current ▣

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DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

VSY12
VERSIFY™ 1'X2' ARCHITECTURAL EDGE-LIT

ORDERING GUIDE

Example: VSY12–35MLHEG–EDU

VSY12	–				G	–			–
Model	**CRI**		**Color Temp**	**Nominal Lumens [3]**	**Ceiling Type**		**Driver**	**Voltage**	

Model	CRI		Color Temp		Nominal Lumens [3]		Ceiling Type	Driver		Voltage	
VSY12 Versify 1'x2' Architectural Edge-Lit	**Blank** >80		**30**	3000K	**VWHE**	1440	**G** Grid [4]	**ED**	0-10V Dimming	**U**	120–277V
	9	>90	**35**	3500K	**MWHE**	1950		**ED1**	0-10V 1% Dimming	**347**	347V
			40	4000K	**LWHE**	2560		**EDD**	0-10V Dim-to-Off		
			50	5000K	**MLHE**	3290		**LUTH**	Hi-lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology [5, 6]		
			2765T	2700K–6500K SpectraSync™ Tunable White [1, 2]	**HLHE**	3635					
					VLHE	4410		**DALIP**	Powered by DALI [5]		

Options				–	Control Options [12]	

Options

ELL14	10W Emergency Battery Pack (CEC Title 20 compliant) Installed [2, 5, 7, 8]
ELL14ST	Emergency Battery Pack, 1400 Lumens, Self Test [2, 5, 7, 8]
ELL14H2	Emergency Battery Pack, 2-Hour Run Time [2, 5, 7, 8, 9]
DTS	Dimming Bypass Module [2, 5, 8, 10]
C388	3-Wire Flex
C488	4-Wire Flex
C588	5-Wire Flex
C688	6-Wire Flex
GLR	Fast Blow Fuse
CP	Chicago Plenum
WL	Wet Location [11]
MB	Matte Black Finish

Control Options [12]

NX Lighting Controls

Networked Wireless

NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor [2, 13, 14, 15]
NXWSM	NX Networked Wireless Enabled Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [2, 13, 15]

Networked Wired

NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor [2, 13, 14, 15]
NXESM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming [2, 13, 14, 15]

Independent Control

NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor [2, 5, 16, 17, 18, 20]

Other Lighting Controls

Networked Wireless

LVR	Lutron Vive Wireless DFCSJ-OEM-RF In-Fixture Control (RF only) [5, 18, 19, 20]
LVS	Lutron Vive Wireless DFCSJ-OEM-OCC In-Fixture Control with Daylight and Occupancy Sensing [5, 18, 19, 20]
AWNR	Lutron Athena Integral Fixture Control A-WN-DO1-RF-WH (RF only) [5, 15, 18, 21]
AWNS	Lutron Athena Integral Fixture Control A-WN-D01-OCC-WH with Daylight and Occupancy Sensing [5, 15, 18]

Independent Control

ODPG	Occupancy and Daylight Sensors w/ Grouping, Philips EasySense SNS200 [5, 18, 20]

ACCESSORY ORDERING GUIDE

Accessories

☐ FK12	1' × 2' Single Flange Kit (Shipped separately)
☐ KIT-VSY12 SM	VSY Surface Mount Kit (1'x2')

Notes:
1. Available with ED driver and 80 CRI only. Not available with MLHE, HLHE or VLHE lumen package
2. Combination of SpectraSync, NX and emergency battery pack in not available
3. Refer to performance tables for exact values and available lumen outputs for fixture size
4. For drywall, order G with flange kit accessory
5. Not available with 347V
6. Not available with VWHE lumen package
7. To determine lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
8. For compatibility with Dual-Lite Litegear inverters, contact lighting representative
9. Not available for use in Canada
10. For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram page 8.
11. Not available with Surface Mount Kit, Controls or Emergency Battery Pack

All Controls
12. Minimum ambient temperature: 0°C (32°F)

NX Lighting Controls Options
13. NX combined with SpectraSync is not available in 347V
14. Not compatible with Surface Mount Kit
15. Not available with LUTH or DALIP driver options
16. NX Connect devices can be configured using the NX Connect Mobile App, available in the Apple App Store
17. NX Connect devices are not compatible with NX Networked Wireless or Wired Options

Other Lighting Controls Options
18. Not available with SpectraSync
19. Vive is a trademark of Lutron Electronics Co., Inc.
20. Only available with DALIP driver option
21. When installing in a hard ceiling application room side mounting is suggested, please consult factory

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DELIVERED LUMENS

PRODUCT AVAILIBILITY 80 CRI			
Lumen Package	Lumens	Input Watts	LPW
VSY12-30VWHE	1407	11	126
VSY12-35VWHE	1442	11	129
VSY12-40VWHE	1466	11	131
VSY12-50VWHE	1428	11	128
VSY12-30MWHE	1905	15	125
VSY12-35MWHE	1952	15	128
VSY12-40MWHE	1985	15	130
VSY12-50MWHE	1985	15	130
VSY12-30LWHE	2501	19	130
VSY12-35LWHE	2563	19	133
VSY12-40LWHE	2607	19	135
VSY12-50LWHE	2607	19	135
VSY12-30MLHE	3209	24	131
VSY12-35MLHE	3288	24	135
VSY12-40MLHE	3344	24	137
VSY12-50MLHE	3344	24	137
VSY12-30HLHE	3551	27	134
VSY12-35HLHE	3636	27	137
VSY12-40HLHE	3699	27	140
VSY12-50HLHE	3699	27	140
VSY12-30VLHE	4306	33	132
VSY12-35VLHE	4413	33	135
VSY12-40VLHE	4487	33	137
VSY12-50VLHE	4275	32	133

PROJECTED LUMEN MAINTENANCE

Calculation Method	Ambient Temp	25,000 hrs	50,000 hrs	60,000 hrs *
TM-21-11	25C/77F	0.94	0.89	0.87
TM-21-21	25C/77F	0.94	0.88	0.86

* Lumen maintenance values calculated per TM-21 using six times the LM-80 test time for the LED and in-situ thermal testing of the luminaire.

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VERSIFY™ 1'X2' ARCHITECTURAL EDGE-LIT

NX LIGHTING CONTROLS

NX LIGHTING CONTROLS

Control Option Ordering Logic & Description			Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
NX Wireless	NXW	NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor	✓	✓	✓	–	–	✓	✓	✓		NXRM2-H
	NXWSM	NX Networked Wireless Enabled Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXSMP2-SMI
NX Wired	NXE	NX Wired Dual RJ45 SmartPORTS , without Sensor	✓	✓	✓	–	–	✓	✓	✓₁		NXDSP
	NXESM	NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth® Programming	✓	✓	✓	✓	✓	✓	✓	✓		NXDSP NXSMP2-SMI
NX Independent	NXCS	NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor	–	✓	–	✓	✓	✓	✓	✓₂		NXC-WIZ20

1 Requires NXBTC, order separately.

2 Requires use of NX Connect App available for download from Apple app store.

DEFAULT SETTINGS

NX Wirelss & Wired		
Occupancy Sensor	Enabled
Occupancy Sensor Sensitivity	7 Minutes
Occupancy Sensor Timeout	15 Minutes
Occupied Dim Level	100%
Unoccupied Dim Level	0% (OFF)
Daylight Sensor	Disabled
Bluetooth	Enabled
2.4GHz Wireless Mesh	Off
Passcode Factory Passcode: HubbN3T!	Enabled

NX Independent - NX Connect		
Settling/Dwell Time	5 sec
Hold Time	10 min
Group Hold Time	10 min
Grace Time	-
Strategy	Auto ON/OFF
Occupancy Sensitivity	5 (highest)
Occupancy Indicator	ON
Partial Off/Standby	0%
Background Level	50%
Task Level	100%
Daylight Harvesting	-
Low Ambient Output	250%
High Ambient Output	OFF

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VERSIFY™ 1'X2' ARCHITECTURAL EDGE-LIT

CONTROLS TECHNICAL SUPPORT

1-800-888-8006 (7:00 am–7:00 pm est)

APP INFORMATION

NX Lighting Controls App

The NX Lighting Controls App is a free to use mobile application for programming both an NX Lighting Controls System or Standalone Bluetooth Sensors. The mobile app allows you to configure devices, discover and setup wireless enabled luminaires and program your NX system settings.
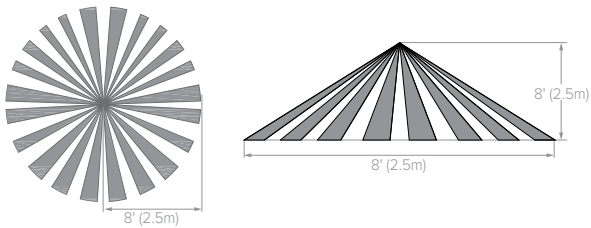
Android

Apple iOS

NX Connect App

The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.

Apple iOS

COVERAGE PATTERNS

NXWSM/NXESM (NXSMP2-SMI SENSOR)

8' (2.5m)

8' (2.5m)

8' (2.5m)

NXCS (NXC-WIZ20 SENSOR)

10' (3m)

18' (5.5m)

24' (7.3m)

Dark: Minor motion

White: Major motion

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OTHER LIGHTING CONTROLS

Control Option Ordering Logic & Description			Control Option Functionality								Control Option Components	
			Networkable	Grouping	Scheduling	Occupancy/ Motion	Daylight Harvesting	0-10V Dimming	On/Off Control	Bluetooth App Programming		
Other	ODPG	Occupancy sensing, daylight harvesting and task tuning in one device.[1]	–	√	–	√	√	√	√	√ [3]		SNS200
	LVR	The Vive integral fixture control is a radio frequency (RF) device that controls either Lutron EcoSystem or DALI drivers based on RF input from Pico remote controls, Radio Powr Savr wireless sensors, or Vive hubs. [2]	√	√	√	–	–	–	√	–		DFCSJ-OEM-RF
	LVS		√	√	√	√	√	–	√	–		DFCSJ-OEM-OCC
	AWNR	The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system. [3]	√	√	√	–	–	√	√	–		A-WN-D01-RF-WH
	AWNS		√	√	√	√	√	√	√	–		A-WN-D01-OCC-WH

1　Philips MasterConnect App required for field configuration.
2　Lutron Vive Hub required to enable Networking, Grouping and Scheduling.
3　Lutron Athena Hub required to enable Networking, Grouping and Scheduling.

Philips EasySense Controls (ODPG option) & Accessories:

- Occupancy sensing, daylight harvesting, task tuning and grouping in one device
- Standalone control or grouping to wireless switches[1]
- Uses Philips field apps for on site commissioning[2]
- Ability to create scenes for various room configurations
- Cost-effective solution for energy-savings and code-compliancy strategies
- DLC® Qualified: Listed on the QPL for Networked Lighting Controls. Please refer to the DLC website for specific product qualifications at www.designlights.org

1　Wireless switches only compatible with ODPG Philips EasySense
2　Requires android device or IR dongle.

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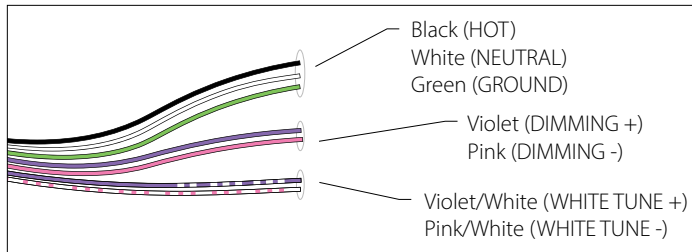## SPECTRASYNC™ COLOR TUNING TECHNOLOGY

Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.

SpectraSync
Color Tuning Technology

SPECTRASYNC COLOR TUNING TECHNOLOGY		
Mode	Kelvin Range	Description
Tunable White	2700K–6500K	Offers users the ability to tailor CCT to their personal preference, enhancing task visibility, material and colors or the aesthetics of the space

SpectraSync Tunable White
Requires two 0–10V controllers, one for intensity and one for CCT. Minimum 10% dimming.

Black (HOT)
White (NEUTRAL)
Green (GROUND)

Violet (DIMMING +)
Pink (DIMMING -)

Violet/White (WHITE TUNE +)
Pink/White (WHITE TUNE -)

SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

Controller Manufacturer Data
SpectraSync Tunable White was designed to be used with sinking style dimmers (provided by others) and is compatible with:
- NX Lighting Controls Room Controller (NXRC) and In-fixture Controllers (NXFM)
- Lutron: DVTV, DVSTV, and NFTV dimmers
- Wattstopper: ADF120277 and CD4BL (Titan) dimmers
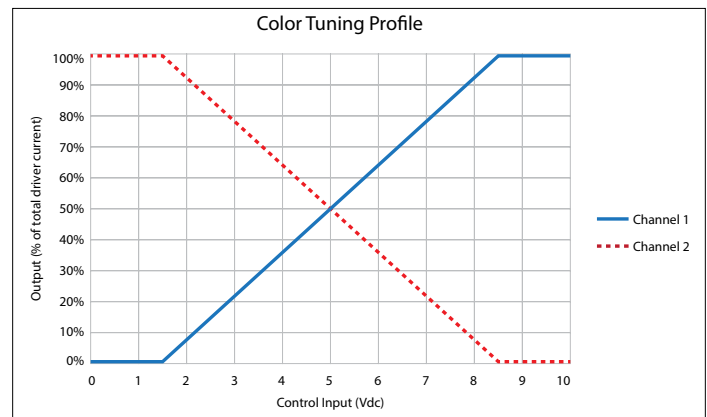
To enable scheduling and for use with NX wall control preset stations please refer to NX SpectraSync technical sheet.

Delivered Lumens, SpectraSync™

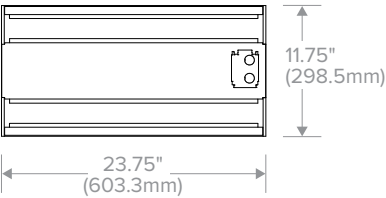| Lumen Output	Watts	2700		3000		3500		4000		5000		6500	
		Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
VWHE	11	1347	121	1407	126	1442	129	1466	131	1428	128	1426	128
MWHE	15	1823	120	1905	125	1952	128	1985	130	1985	130	1930	127
LWHE	19	2394	124	2501	130	2563	133	2607	135	2607	135	2535	131

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DIMENSIONS

GRID

Top view

11.75"
(298.5mm)

23.75"
(603.3mm)

Front view
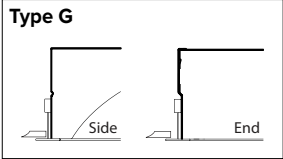
2"
(50.8mm)

Side view

23.75"
(603.3mm)
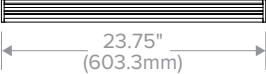
CEILING COMPATIBILITY

Type G
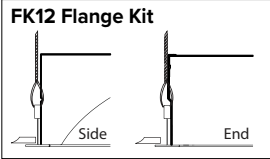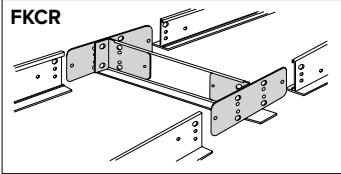
Side   End

For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.

FK12 Flange Kit

Side   End

For hard ceiling applications, order FK12 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.
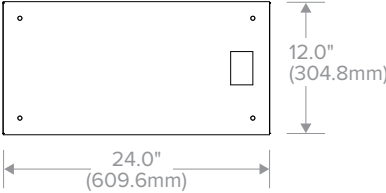
FKCR

For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK12 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK12 & (1) FKCR)

Row cut out dimensions using FK12s & FKCR adapters:
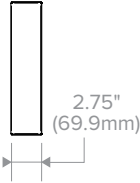Width 12⅜", Length [24" × (# in row)] + ⅜".
Example: (24" × 2) + 3/8" = 48⅜"

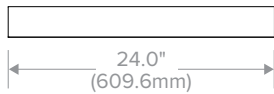**Flange kit cut out dimension for single unit only: 12⅜" × 24⅜"**

SURFACE MOUNT

Top view

12.0"
(304.8mm)

24.0"
(609.6mm)

Front view

2.75"
(69.9mm)

Side view

24.0"
(609.6mm)

PHOTOMETRY

VSY12-35MLHE-EDU

LUMINAIRE DATA

Test No.	19.00994
Description	Recessed Architectural Edge-Lit 1' x 2' LED with Acrylic Diffuser
Delivered Lumens	3288
Watts	24.43
Efficacy	135
Mounting	Recessed
Spacing Criterion	0° = 1.22 90° = 1.24

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–30	950	28.9
0–40	1540	46.8
0–60	2646	80.5
0–90	3288	100
0–180	3288	100

POLAR GRAPH

90
75
650
60
1300
0   15   30   45
Horiz 0-180
0.0 — 45.0 — 90.0
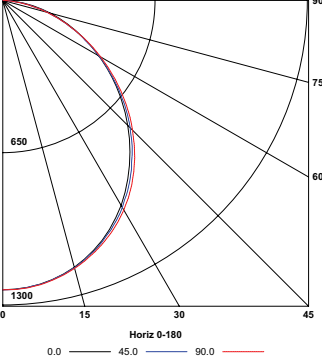
DTS WIRING DIAGRAM (0–10V DIMMING DRIVER SHOWN)

WHITE / BLUE
BLUE
BLACK
WHITE
RED
VIOLET
PINK

YELLOW (#5)
ORANGE
TEST
UTILITY POWER   EMERGENCY POWER
SMALL YELLOW (CAP)

WHITE
BLACK

DRIVER

PINK
VIOLET

WHITE/BLUE	Emergency Neutral
BLUE	Emergency Line
BLACK	Utility Line (Unswitched Hot)
WHITE	Utility Neutral
RED	Switched Hot
VIOLET	Dimming
PINK	Dimming

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