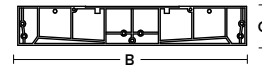


FEATURES

- 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 1/4" with emergency battery pack option
- Surface mount kit available as an accessory
- Up to 141 lumens per watt



Typical Dimensions and Weights				
Sizes	(A) Length Inches (mm)	(B) Width Inches (mm)	(C) Height Inches (mm)	Weight lbs (kg)
1x4	47.75 (1213)	11.75 (299)	2.00 (51)	10.0 (4.5)



CONTROLS TECHNOLOGY



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 3/8" 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](http://BuyAmerica(n).Solutions)

WARRANTY

- 5 year warranty

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: VSY14–35MLHEG–EDU

VSY14				G		
Model	CRI	Color Temp	Nominal Lumens ²	Ceiling Type	Driver	Voltage
VSY14 Verify 1'x4' Architectural Edge-Lit	Blank	>80	30 3000K	XWHE 2170	G Grid ³	ED 0-10V Dimming
	9	>90	35 3500K	VWHE 3195		ED1 0-10V 1% Dimming
			40 4000K	MWHE 3795		EDD 0-10V Dim-to-Off
			50 5000K	LWHE 4355		LUTH Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology ⁴
			2765T 2700K–6500K SpectraSync™ Tunable White ¹	MLHE 4845		DALIP Powered by DALI ⁴
				HLHE 5110		
				VLHE 6670		
				XLHE 8455		

Options	Control Options ¹⁰
ELL14 10W Emergency Battery Pack (CEC Title 20 compliant) Installed ^{4, 5, 6}	<u>NX Lighting Controls</u>
ELL14ST Emergency Battery Pack, 1400 Lumens, Self Test ^{4, 5, 6}	<u>Networked Wireless</u>
ELL14H2 Emergency Battery Pack, 2-Hour Run Time ^{4, 5, 6, 7}	NXW NX Networked Wireless Radio Module NXRM2 and Bluetooth Programming, without Sensor ^{11, 12, 13}
DTS Dimming Bypass Module ^{4, 6, 8}	NXWSM NX Networked Wireless Enabled Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming ^{11, 13}
C388 3-Wire Flex	<u>Networked Wired</u>
C488 4-Wire Flex	NXE NX Wired Dual RJ45 SmartPORTS , without Sensor ^{10, 11, 12, 13}
C588 5-Wire Flex	NXESM NX Wired Dual RJ45 SmartPORTS and Integral NXSMP2-SMI PIR Occupancy Sensor with Automatic Dimming Photocell and Bluetooth Programming ^{10, 11, 12, 13}
C688 6-Wire Flex	<u>Independent Control</u>
GLR Fast Blow Fuse	NXCS NX Connect NXC-WIZ20 Wireless Indoor Occupancy and Photocell Sensor ^{4, 14, 15, 16, 18}
CP Chicago Plenum	<u>Other Lighting Controls</u>
WL Wet Location ⁹	<u>Networked Wireless</u>
MB Matte Black Finish	LVR Lutron Vive Wireless DFCSJ-OEM-RF In-Fixture Control (RF only) ^{4, 16, 17, 18}
	LVS Lutron Vive Wireless DFCSJ-OEM-OCC In-Fixture Control with Daylight and Occupancy Sensing ^{4, 16, 17, 18}
	AWNRLutron Athena Integral Fixture Control A-WN-DO1-RF-WH (RF only) ^{4, 13, 16, 19}
	AWNS Add AWNS Lutron Athena Integral Fixture Control A-WN-DO1-OCC-WH with Daylight and Occupancy Sensing ^{4, 13, 16}
	<u>Independent Control</u>
	ODPG Occupancy and Daylight Sensors w/ Grouping, Philips EasySense SNS200 ^{4, 16, 18}

ACCESSORY ORDERING GUIDE

Accessories
<input type="checkbox"/> FK14 1' x 4' Single Flange Kit (Shipped separately)
<input type="checkbox"/> KIT-VSY14 SM VSY Surface Mount Kit (1'x4')

- Notes:
1 Available with ED driver and 80 CRI only. Not available with VLHE or XLHE lumen package
2 Refer to performance tables for exact values and available lumen outputs for fixture size
3 For drywall, order G with flange kit accessory
4 Not available with 347V
5 To determine lumen output in emergency mode, multiply the battery pack wattage by the fixture lumens per watt (LPW)
6 For compatibility with Dual-Lite Litegear inverters, contact lighting representative
7 Not available for use in Canada
8 For emergency circuit control loads including sensors and wireless systems CSA certified to UL 924. See wiring diagram.
9 Not available with Surface Mount Kit, Controls or Emergency Battery Pack
- All Controls**
10 Minimum ambient temperature: 0°C (32°F)
NX Lighting Controls Options
11 NX combined with SpectraSync is not available in 347V
12 Not compatible with Surface Mount Kit
13 Not available with LUTH or DALIP driver options
14 NX Connect devices can be configured using the NX Connect Mobile App, available in the Apple App Store
15 NX Connect devices are not compatible with NX Networked Wireless or Wired Options
Other Lighting Controls Options
16 Not available with SpectraSync
17 Vive is a trademark of Lutron Electronics Co., Inc.
18 Only available with DALIP driver option
19 When installing in a hard ceiling application room side mounting is suggested, please consult factory

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

DELIVERED LUMENS

PRODUCT AVAILABILITY 80 CRI			
LUMEN PACKAGE	LUMENS	INPUT WATTS	LPW
VSY14-30XWHE	2119	18	121
VSY14-35XWHE	2172	18	124
VSY14-40XWHE	2208	18	126
VSY14-50XWHE	2129	18	121
VSY14-30VWHE	3121	25	124
VSY14-35VWHE	3197	25	127
VSY14-40VWHE	3252	25	129
VSY14-50VWHE	3252	25	129
VSY14-30MWHE	3705	29	127
VSY14-35MWHE	3797	29	131
VSY14-40MWHE	3861	29	133
VSY14-50MWHE	3861	29	133
VSY14-30WLHE	4250	33	128
VSY14-35WLHE	4355	33	131
VSY14-40WLHE	4429	33	133
VSY14-50WLHE	4429	33	133
VSY14-30MLHE	4728	36	130
VSY14-35MLHE	4844	36	134
VSY14-40MLHE	4927	36	136
VSY14-50MLHE	4927	36	136
VSY14-30HLHE	4987	38	130
VSY14-35HLHE	5109	38	133
VSY14-40HLHE	5196	38	135
VSY14-50HLHE	5196	38	135
VSY14-30VLHE	6516	49	134
VSY14-35VLHE	6672	49	137
VSY14-40VLHE	6788	49	139
VSY14-50VLHE	6788	49	139
VSY14-30XLHE	8249	61	135
VSY14-35XLHE	8455	61	139
VSY14-40XLHE	7943	61	131
VSY14-50XLHE	7943	61	131

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.

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

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 Wireless & 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

VS^Y14

VERIFY™ 1'X4' ARCHITECTURAL EDGE-LIT

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

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



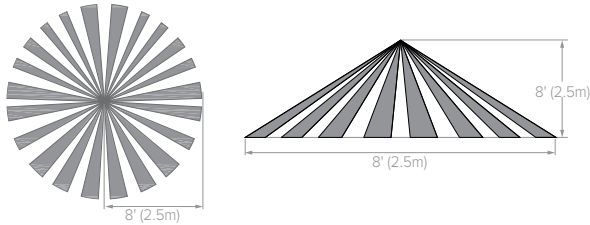
The NX Connect mobile App is a free to use mobile application for programming a NX Connect System. The mobile App allows you to discover, configure and share your NX Connect system.



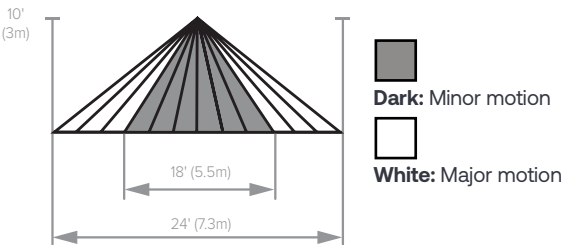
Apple iOS

COVERAGE PATTERNS

NXWSM/NXESM (NXSMP2-SMI SENSOR)



NXCS (NXC-WIZ20 SENSOR)



DATE:






LOCATION:

TYPE:

PROJECT:

CATALOG #:

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
	AWNDR	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 switches¹
- Uses Philips field apps for on site commissioning²
- Ability to create scenes for various room configurations
- Cost-effective solution for energy-savings and code-compliance 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.

SPECTRASync™ COLOR TUNING TECHNOLOGY

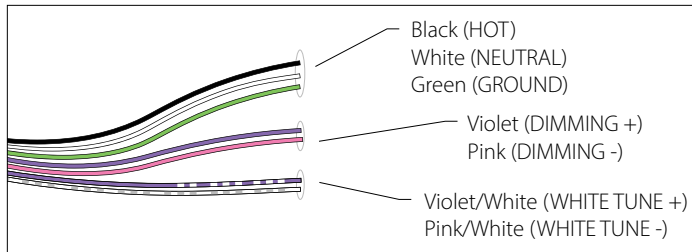
Control your space based on the needs of the application, specific activities throughout the day and preferences of the occupants with distinct SpectraSync™ Color Tuning Technologies.



SPECTRASync COLOR TUNING TECHNOLOGY		
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.

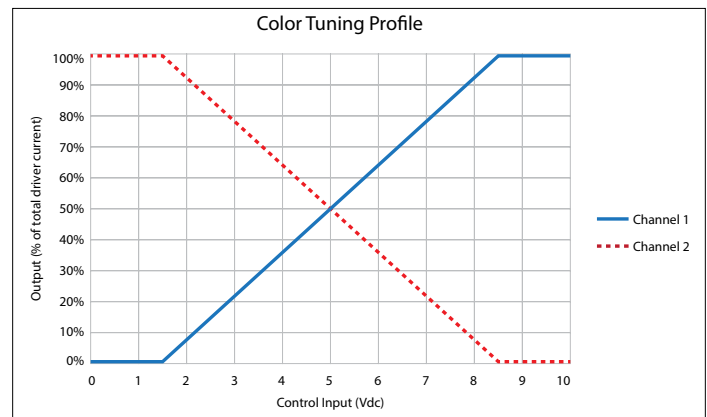


SpectraSync Tunable White luminaires are provided with two 0–10V circuits. The violet and pink circuit is for wiring to any qualified 0–10V controller for dimming. The violet/white and grey/white circuit is for wiring to any qualified 0–10V controller for Tunable White CCT control.

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: DDTV, 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
XWHE	18	2028	115	2119	121	2172	124	2208	126	2129	121	2147	122
VWHE	25	2986	119	3121	124	3197	127	3252	129	3252	129	3162	126
MWHE	29	3546	122	3705	127	3797	131	3861	133	3861	133	3755	129
LWHE	33	4067	122	4250	128	4355	131	4429	133	4429	133	4307	129
MLHE	36	4525	125	4728	130	4844	134	4927	136	4927	136	4791	132
HLHE	38	4772	124	4987	130	5109	133	5196	135	5196	135	5053	131

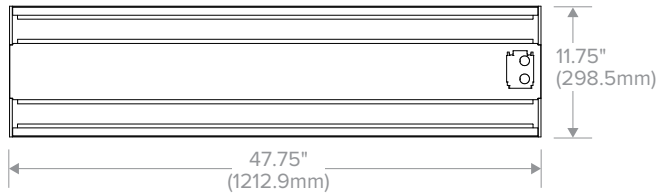
VSY14

VERIFY™ 1'X4' ARCHITECTURAL EDGE-LIT

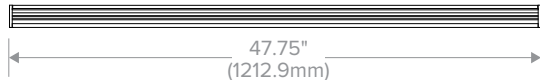
DIMENSIONS

GRID

Top view



Side view

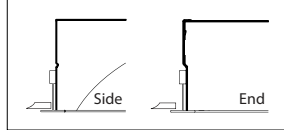


Front view



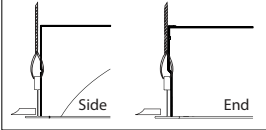
CEILING COMPATIBILITY

Type G



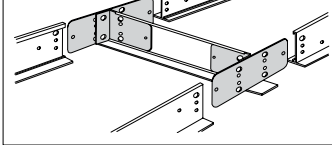
For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.

FK14 Flange Kit



For hard ceiling applications, order FK14 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.

FKCR



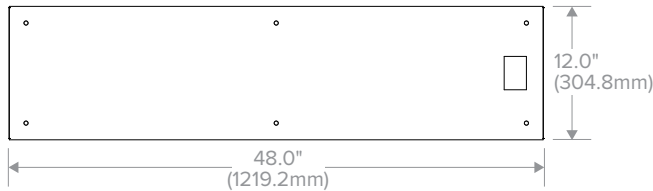
For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK14 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK14 & (1) FKCR)

Row cut out dimensions using FK14s & FKCR adapters:
Width 12 $\frac{3}{8}$ ", Length $[48" \times (\# \text{ in row})] + \frac{3}{8}"$.
Example: $(48" \times 2) + 3/8" = 96\frac{3}{8}"$

Flange kit cut out dimension for single unit only: 12 $\frac{3}{8}" \times 48\frac{3}{8}"$

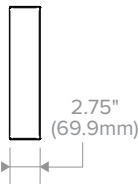
SURFACE MOUNT

Top view

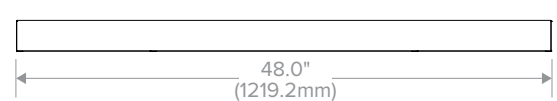


10, 11, 12, 13

Front view



Side view



PHOTOMETRY

VSY14-35MLHE-EDU

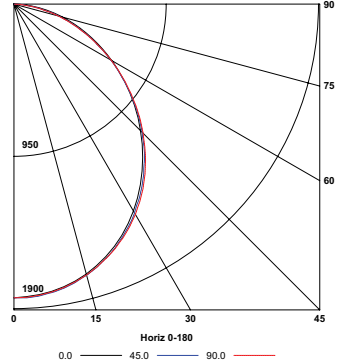
LUMINAIRE DATA

Test No.	19.01134
Description	Recessed Architectural Edge-Lit 1' x 4' LED with Acrylic Diffuser
Delivered Lumens	4844
Watts	36.27
Efficacy	134
Mounting	Recessed
Spacing Criterion	0° = 1.21 90° = 1.23

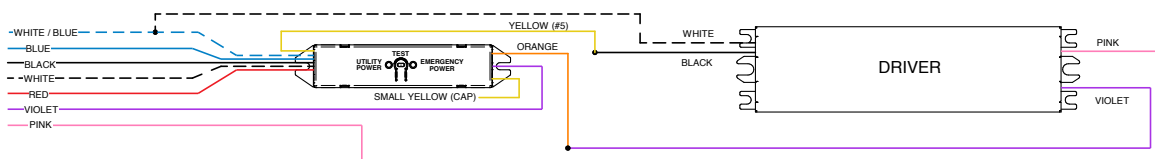
ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	1403	29.0
0-40	2272	46.9
0-60	3897	80.4
0-90	4844	100
0-180	4844	100

POLAR GRAPH



DTS WIRING DIAGRAM (0-10V DIMMING DRIVER SHOWN)



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