STRIP LIGHT LED

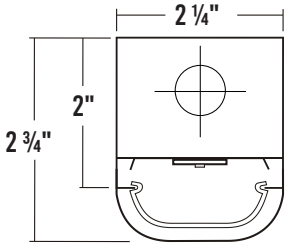
STW100

2¼" WIDE STRIP LUMINAIRE

JOB	
TYPE	
DATE	

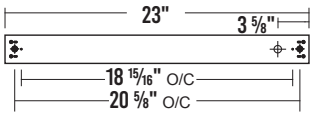
SURFACE/SUSPENDED/WALL MOUNTED LED LUMINAIRE

CROSS SECTION

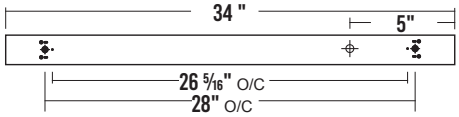


⊕ ⅞" K.O. ✦ 11⁄16" STEM MTG. K.O. • 3⁄16"MTG.HOLE ●- V-HOOK

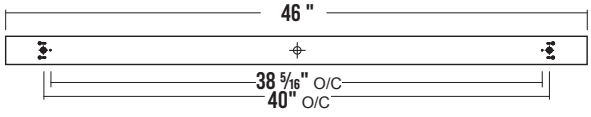
2' BACKPLATE

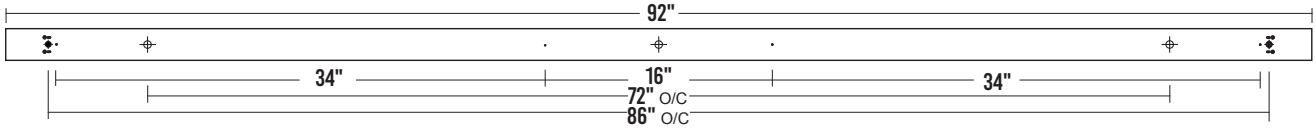


3' BACKPLATE



4' BACKPLATE





8' BACKPLATE

SPECIFICATIONS

CONSTRUCTION
- 22 gauge cold rolled steel housing
- End plates fastened to housing by sheet metal screws to assure rigidity

FINISH
- Baked white polyester finish
- Minimum reflectance 86%
- End plates - baked white powder coated finish / painted after fabrication

OPTICAL
- Frosted white acrylic lens

ELECTRICAL
- High efficiency drivers coupled with long-life LEDs
- Service life tested at 50,000 hours (L70)
- Universal voltage 120-277V, 50-60Hz (347V, 480V available)
- Power Factor (PF) ≥ 0.9
- Total Harmonic Distortion (THD) ≤ 20%

LISTING
- UL USA and Canada listed / suitable for damp locations

WARRANTY
- 5-year limited warranty
- 10-year limited warranty available

APPLICATIONS

Retail, Warehouse, Industrial, Office, Corridor, Stairwell, Parking, Structure, Assembly Line, Aisle Lighting

FEATURES

- 0-10V Dimming driver standard
- Supports California Title 24 compliance
- End caps may be used as couplings for seamless row mounting on surfaces

OPTIONS CONTACT CUSTOMER SERVICE FOR ADDITIONAL OPTIONS

- Controls
- Cord & Plug
- 14 gauge wire guard
- Custom housing colors
- Emergency battery pack
- Tunable white (2700K - 6500K)
- Customization available upon request
- Plug-in branch wiring connector system

CUSTOM COLORS

BLK - Matte Black | CS - Camaro Silver | BZ - Statuary Bronze

Variety of RAL colors available upon request.

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10141 Olney Street
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ORDERING INFORMATION

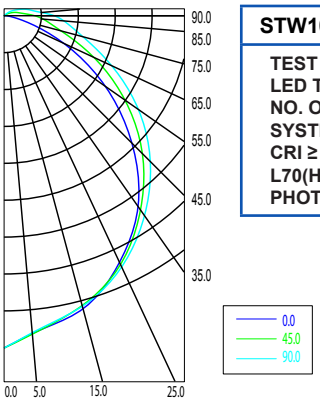
ADDITIONAL OPTIONS AVAILABLE. VISIT WWW.LALIGHTING.COM/RESOURCES FOR MORE INFORMATION

EXAMPLE: STW100-8-8L-FRWA-BPLSL1.5-DRDM-UNV-1/840

SERIES	NOMINAL LED LUMENS	NOMINAL LENGTH	COLOR	OPTICAL	CONTROLS	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROWS	CRI / CCT
STW100							**DRDM**	**UNV**	**1**	
STW100 • 2¼" Wide Lensed Strip	**1** 1000lm **2** 2000lm **3** 3000lm **4** 4000lm **5** 5000lm **High Efficacy** **1HE** 1000lm **2HE** 2000lm **3HE** 3000lm	**2L** • 2'	**(Blank)** • Standard White Housing **BLK** • Black Housing **BZ** • Bronze Housing	**FRA** • Frosted Acrylic **FRWA** • Frosted White Acrylic	**MS(xx)** • Motion Sensor • Lens Option **WLC(LEDRU)** • Wireless Control **WLC(AWNR-WH)** Lutron Athena wireless node (RF) **WLC(AWNS-WH)** Lutron Athena wireless node w/sensor Additional Lutron options on page (8) *Leave blank if not specified	**BPLSL1.5** • 1500 lm Emergency Battery Pack, Slim Casing *Leave Blank if Not Specified (See Electrical Options page for more information on Plug-In Branch Wiring and Cord/ Conduit Options)	**DRDM** • 0-10V Dimmable Driver	**UNV** • 120-277V, 50-60Hz	**1** • 1 LED Row	**830** • 80+CRI / 3000K **835** • 80+CRI / 3500K **840** • 80+CRI / 4000K **850** • 80+CRI / 5000K **8TW** • 80+CRI Tunable White 2700K-6500K *Contact customer service for additional CRI / CCT packages, including 90CRI*
	1.5 1500lm **3** 3000lm **4.5** 4500lm **6** 6000lm	**3L** • 3'								
	2 2000lm **4** 4000lm **6** 6000lm **8** 8000lm **10** 10000lm **High Efficacy** **2HE** 2000lm **4HE** 4000lm **6HE** 6000lm	**4L** • 4'								
	4 4000lm **8** 8000lm **12** 12000lm **16** 16000lm **20** 20000lm **High Efficacy** **4HE** 4000lm **8HE** 8000lm **12HE** 12000lm	**8L** • 8'								

Standard options for STW100 shown above. For additional options, including lumen packages, controls, lenses, switches, finishes, and more, visit www.lalighting.com/resources or contact customer service.

PHOTOMETRIC DATA



STW100-4-4L-FRWA-DRDM-UNV-1/840

TEST NO. = LA-T3632
LED TYPE = 56 LED MODULE
NO. OF MODULE = 1
SYSTEM WATT (W) = 26.7
CRI ≥ 80
L70(Hrs.) ≥ 50,000
PHOTOMETRY TYPE = C

ZONAL LUMEN SUMMARY

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	867	21.2	26.7
0-40	1401	34.3	43.1
0-60	2402	58.8	74.0
0-90	3077	75.3	94.7
90-120	158	3.9	4.9
90-150	172	4.2	5.3
90-180	172	4.2	5.3
0-180	3249	79.5	100.0

SPACING CRITERION

ALONG	ACROSS
1.13	1.17

Luminaire Output = 3248.86 lumens
Luminaire Efficacy = 121.68 lm/W
Luminaire Efficiency = 79.51%

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SYSTEM DATA

ADDITIONAL LUMEN PACKAGES AVAILABLE. CONTACT CUSTOMER SERVICE FOR MORE INFORMATION

2' - LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
1000 Lumens (Nominal)	STW100-1-2L-FRWA-DRDM-UNV-1/840	818	7.6	107.1 lm/W	-20°C / 35°C (-4°F / 95°F)	1-F17T8	LA-T3580
2000 Lumens (Nominal)	STW100-2-2L-FRWA-DRDM-UNV-1/840	1605	14.1	87.4 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F17T8 1-F24T5HO	LA-T3581
3000 Lumens (Nominal)	STW100-3-2L-FRWA-DRDM-UNV-1/840	2459	22.1	111.1 lm/W	-20°C / 35°C (-4°F / 95°F)	3-F17T8	*
4000 Lumens (Nominal)	STW100-4-2L-FRWA-DRDM-UNV-1/840	3255	27.2	119.3 lm/W	-20°C / 35°C (-4°F / 95°F)	4-F17T8 2-F24T5HO	*
5000 Lumens (Nominal)	STW100-5-2L-FRWA-DRDM-UNV-1/840	3982	32.6	121.9 lm/W	-20°C / 35°C (-4°F / 95°F)	4-F17T8 2-F24T5HO	*
2' - LED LUMEN PACKAGE	**NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE**	**DELIVERED LUMENS**	**SYSTEM WATTS**	**LUMINAIRE EFFICACY**	**AMBIENT TEMP.**	**FLUORESCENT EQUIVALENT**	**IES FILES**
1000 Lumens (Nominal)	STW100-1HE-2L-FRWA-DRDM-UNV-1/840	884	7.5	117.9 lm/W	-20°C / 35°C (-4°F / 95°F)	1-F17T8	*
2000 Lumens (Nominal)	STW100-2HE-2L-FRWA-DRDM-UNV-1/840	1572	12.3	127.0 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F17T8 1-F24T5HO	*
3000 Lumens (Nominal)	STW100-3HE-2L-FRWA-DRDM-UNV-1/840	2375	18.6	127.1 lm/W	-20°C / 35°C (-4°F / 95°F)	3-F17T8	*

3' - LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
1500 Lumens (Nominal)	STW100-2-3L-FRWA-DRDM-UNV-1/840	1365	9.2	148.5 lm/w	-20°C / 35°C (-4°F / 95°F)	1-F32T8	*
3000 Lumens (Nominal)	STW100-3-3L-FRWA-DRDM-UNV-1/840	2427	17.8	136.1 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F32T8 1-F54T5HO	LA-T3634
4500 Lumens (Nominal)	STW100-4.5-3L-FRWA-DRDM-UNV-1/840	3903	28.8	135.5 lm/W	-20°C / 35°C (-4°F / 95°F)	3-F32T8	*
6000 Lumens (Nominal)	STW100-8-3L-FRWA-DRDM-UNV-1/840	5026	39.0	128.6 lm/W	-20°C / 35°C (-4°F / 95°F)	4-F32T8 2-F54T5HO	*

4' - LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
2000 Lumens (Nominal)	STW100-2-4L-FRWA-DRDM-UNV-1/840	1654	13.4	123.3 lm/w	-20°C / 35°C (-4°F / 95°F)	1-F32T8	*
4000 Lumens (Nominal)	STW100-4-4L-FRWA-DRDM-UNV-1/840	3248	26.7	121.6 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F32T8 1-F54T5HO	LA-T3632
6000 Lumens (Nominal)	STW100-6-4L-FRWA-DRDM-UNV-1/840	5045	43.6	115.5 lm/W	-20°C / 35°C (-4°F / 95°F)	3-F32T8	*
8000 Lumens (Nominal)	STW100-8-4L-FRWA-DRDM-UNV-1/840	6585	51.1	128.7 lm/W	-20°C / 35°C (-4°F / 95°F)	4-F32T8 2-F54T5HO	*
10000 Lumens (Nominal)	STW100-10-4L-FRWA-DRDM-UNV-1/840	8055	61.4	131.0 lm/W	-20°C / 35°C (-4°F / 95°F)	4-F32T8 2-F54T5HO	*
4' - LED LUMEN PACKAGE	**NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE**	**DELIVERED LUMENS**	**SYSTEM WATTS**	**LUMINAIRE EFFICACY**	**AMBIENT TEMP.**	**FLUORESCENT EQUIVALENT**	**IES FILES**
2000 Lumens (Nominal)	STW100-2HE-4L-FRWA-DRDM-UNV-1/840	1788	13.5	132.0 lm/W	-20°C / 35°C (-4°F / 95°F)	1-F32T8	*
4000 Lumens (Nominal)	STW100-4HE-4L-FRWA-DRDM-UNV-1/840	3180	23.4	135.6 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F32T8 1-F54T5HO	*
6000 Lumens (Nominal)	STW100-6HE-4L-FRWA-DRDM-UNV-1/840	4804	36.4	132.0 lm/W	-20°C / 35°C (-4°F / 95°F)	3-F32T8	*

NOTE:
Actual performance may differ as a result of end-user environment and application.
Normal: This fixture has been tested and listed in accordance with UL Standards. L.A. Lighting certifies that it will operate safely when installed properly, and within an ambient temperature range from -20°C to 35°C. Additional lumen packages and color temperatures available.

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SYSTEM DATA

ADDITIONAL LUMEN PACKAGES AVAILABLE. CONTACT CUSTOMER SERVICE FOR MORE INFORMATION

8' - LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
4000 Lumens (Nominal)	STW100-4-8L-FRWA-DRDM-UNV-1/840	3398	25.7	131.9 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F32T8	*
8000 Lumens (Nominal)	STW100-8-8L-FRWA-DRDM-UNV-1/840	6673	52.6	126.6 lm/W	-20°C / 35°C (-4°F / 95°F)	4-F32T8 2-F54T5HO	LA-T3633
12000 Lumens (Nominal)	STW100-12-8L-FRWA-DRDM-UNV-1/840	10090	81.9	123.1 lm/W	-20°C / 35°C (-4°F / 95°F)	6-F32T8 3-F54T5HO	*
16000 Lumens (Nominal)	STW100-16-8L-FRWA-DRDM-UNV-1/840	13234	99.2	133.4 lm/W	-20°C / 35°C (-4°F / 95°F)	8-F32T8 4-F54T5HO	*
20000 Lumens (Nominal)	STW100-20-8L-FRWA-DRDM-UNV-1/840	16545	122.9	134.5 lm/W	-20°C / 35°C (-4°F / 95°F)	8-F32T8 4-F54T5HO	*
8' - LED LUMEN PACKAGE	**NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE**	**DELIVERED LUMENS**	**SYSTEM WATTS**	**LUMINAIRE EFFICACY**	**AMBIENT TEMP.**	**FLUORESCENT EQUIVALENT**	**IES FILES**
4000 Lumens (Nominal)	STW100-4HE-8L-FRWA-DRDM-UNV-1/840	3306	22.7	145.4 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F32T8	*
8000 Lumens (Nominal)	STW100-8HE-8L-FRWA-DRDM-UNV-1/840	6532	45.2	144.2 lm/W	-20°C / 35°C (-4°F / 95°F)	4-F32T8 2-F54T5HO	*
12000 Lumens (Nominal)	STW100-12HE-8L-FRWA-DRDM-UNV-1/840	9867	71.1	138.7 lm/W	-20°C / 35°C (-4°F / 95°F)	6-F32T8 3-F54T5HO	*

NOTE:
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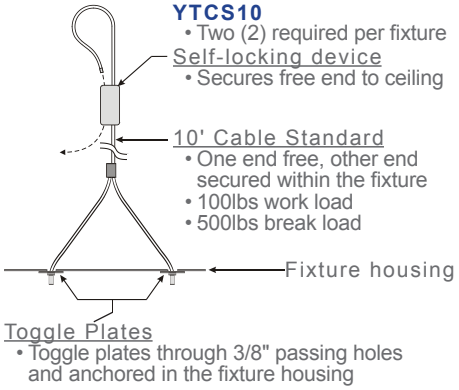
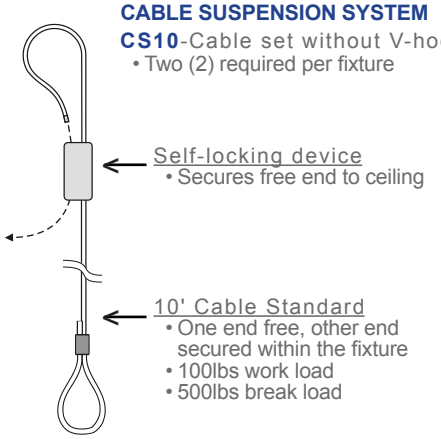
MOUNTING ACCESSORIES

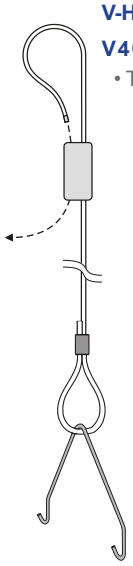
Y-TOGGLE-END / CABLE SUSPENSION SYSTEM

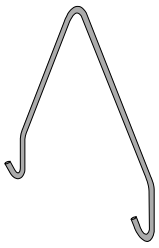


CABLE SUSPENSION SYSTEM



V-HOOK / CABLE SUSPENSION SYSTEM





V-HOOK

- Hooks install at end of fixture and in chain mount coupling tabs between fixtures when chain mounted in rows
- Two (2) required per fixture

FOR FIXTURE SERIES	CAT. NO
4" LEG HEIGHT (110/200/240/500) Series	V4

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MOUNTING ACCESSORIES

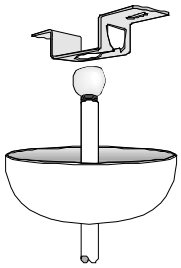
CHAIN MOUNT COUPLING

- Chain mount coupling with lift-up tabs for installation of V-Hooks when chain mounted
- Baked white enamel finish

CAT. NO.	FIXTURE SERIES
CMC-STW100	STW100 (only for 4ft & 8ft fixtures)

CANOPY SUSPENSION

- Ball-action joint provides a full circumferential 45° swivel action
- Canopy bowl turn-locks onto bracket
- Baked white enamel (other finishes available as specified)



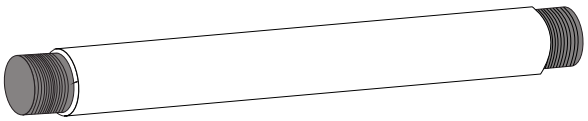
565

- Includes mounting bracket, turn-lock canopy bowl, and ball-action joint
- No power feed
- Minimum stem length 12”
- Maximum weight 50lbs per stem

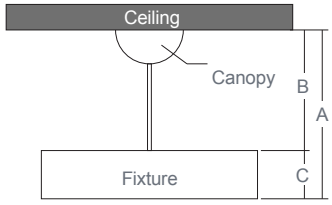
STEM (Specify Length)

- 3/8” IPS, nominal OD 5/8”
- Threaded 1” each end
- 2 lock nuts provided per stem
- Standard lengths: 6”, 12”, 18”, 24”, 30”, 36”, 48”
- Baked white enamel finish

Other lengths & finishes are available as specified



Stem Length Calculation



A = Distance from ceiling to bottom of fixture
B = Stem length
C = Height of fixture
Stem Length B = A - C

CANOPY / CABLE SUSPENSION SYSTEM

- Self-locking, one-step adjustable suspension device with canopies
- Provides full 360° rotation

433B

- Canopy with cable
- No power cord
- Cable length 48" and 96"
- Max. Weight 196 lbs.

433B-48 W

COLOR
W -White
B - Black

CABLE LENGTH
48 - 48 inches
96 - 96 inches
(Other lengths as specified)

444F

- Feed-in canopy with straight cord
- Includes power cord
- Cable length 48" and 96"
- Max. Weight 196 lbs

444F-48SW-2C

 # OF CIRCUITS
2C - Two circuits
LV - 0-10V dimming
Blank - One circuit

COLOR
W - White
B - Black

CORD TYPE
S - Straight cord

CABLE LENGTH
48 - 48 inches
96 - 96 inches
(Other lengths as specified)

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ELECTRICAL

PLUG-IN BRANCH WIRING CONNECTOR SYSTEM

- For wiring through fixture channel in single or multiple circuits
- Low-voltage for dimming available
- 12 gauge wire
- Quick connect plugs for easy installation
- Contact customer service for additional options

PIW1 LV

CONTROL WIRES

Blank	Leave blank if not specified
LV	Low Voltage for 0-10V or other controls

 # OF CIRCUITS

PIW1	One Circuit
PIW2	Two Circuits

CORD & PLUG

CP 515P 6 E

LOCATION

E	End of fixture
T	Top of fixture
A	Access Plate

LENGTH *Contact customer service for custom lengths*

6	6ft cord
10	10ft cord

PLUG

515P*	NEMA 5-15P, straight blade, 120V, 15A (For wet location applications if installed in a waterproof enclosure)
L515P	NEMA L5-15P, locking blade, 120V, 15A
L515PWL*	NEMA 4x L5-15P, wet location, locking blade, 120V 15A (Contact customer service to specify plug manufacturer)
L520P	NEMA L5-20P, locking blade, 120V, 20A
L715P	NEMA L7-15P, locking blade, 277V, 15A (For wet location applications if installed in a waterproof enclosure)
L715PWL*	NEMA 4x L7-15P, wet location, locking blade, 277V, 15A (Contact customer service to specify plug manufacturer)
L720P	NEMA L7-20P, locking blade, 277V, 20A
L820P	NEMA L8-20P, locking blade, 480V, 20A

CORD & PLUGS *Contact customer service for custom options*

CP	Cord 18 gauge 3-wire Black outer jacket JT type for 120-277V / ST type for 480V

**Consult local building codes for specific wet location installation requirements*

Los Angeles Lighting Mfg. Co.
Contact Us
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www.lalighting.com
10141 Olney Street
El Monte, CA 91731
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ELECTRICAL

CORD & FLEXIBLE CONDUIT OPTIONS

FLX 6 (2C) E

LOCATION

- **E** End of fixture
- **T** Top of fixture
- **A** Access Plate

 # OF CIRCUITS / CONTROLS

- **Blank** Leave Blank for One Circuit
- **2C** Two Circuits
- **3C** Three Circuits *(Flex conduit only)*
- **LV** Control Wires for Dimming

LENGTH *Contact customer service for custom lengths*

- **6** 6ft cord/conduit
- **10** 10ft cord/conduit

TYPE *Flexible conduit cannot be factory installed when fixture is rated for Wet Location*

- **FLX** 3/8" Aluminum flexible conduit
  1/2" Snap-in fittings on both sides
  Three conductors standard
- **C** Cord 18 gauge 3-wire
  Black outer jacket
  JT type for 120-277V / ST type for 480V

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LUTRON®

WIRELESS CONTROLS

How to Order

Pre-installed components are ordered by adding the part number to the luminaire:

GHL320-4-4L-FSW-PA- **WLC(FCJS0)** -DRDM-UNV-2/840

*Components marked with * are ordered separately*

Vive Systems

Vive PowPak Wireless Fixture Controls

WLC(FCJS0) - PowPak Wireless Fixture Control
- RF only. For use with 0-10V drivers.
- One fixture control per luminaire, typically end-mounted via 1/2" KO.

WLC(FCJS0S) - PowPak Wireless Fixture Control with Sensor
- RF with daylight/occupancy sensing. For use with 0-10V drivers.
- One fixture control per luminaire, typically end-mounted via 1/2" KO.
- Sensor must be installed separately.

WLC(FCJSE) - PowPak EcoSystem Wireless Fixture Control
- RF only. For use with Lutron EcoSystem drivers.
- One fixture control per luminaire, typically end-mounted via 1/2" KO.

WLC(FCJSES) - PowPak EcoSystem Wireless Fixture Control with Sensor
- RF with daylight/occupancy sensing. For use with Lutron EcoSystem drivers.
- One fixture control per luminaire, typically end-mounted via 1/2" KO.
- Sensor must be installed separately.

Vive PowPak Sensors

***FC-SENSOR - PowPak Occupancy/Daylight Sensor**
- For luminaires with existing PowPak Wireless Fixture Controls.
- Turns luminaire ON/OFF based on motion. Adjusts lumen output in response to ambient light.
- Recommended mounting height: 8-12ft

***FC-VSENSOR - PowPak Vacancy/Daylight Sensor**
- For luminaires with existing PowPak Wireless Fixture Controls.
- Turns luminaire OFF when area is vacant. Adjusts lumen output in response to ambient light.
- Recommended mounting height: 8-12ft.

Vive Integral Fixture Controls

WLC(VRF) - Vive Integral Wireless Fixture Control
- RF only. Requires controls-ready driver.
- One fixture control per luminaire, mounting location varies by luminaire.

WLC(VDO) - Vive Integral Wireless Fixture Control
- RF, plus daylight/occupancy sensing. Requires controls-ready driver.
- One fixture control per luminaire, mounting location varies by luminaire.
- Turns luminaire ON/OFF based on motion. Adjusts lumen output in response to ambient light.
- Coverage area at 9ft mounting height: Up to 300 sq.ft for major motions; 150 sq.ft. for minor motions.

Athena Wireless Nodes

Requires Athena-compatible drivers and Clear Connect Gateway - Type X

WLC(AWNR-WH) - Wireless Node (White)
- RF communication node. One per luminaire, integrally mounted.

WLC(AWNS-WH) - Wireless Node (White) with Sensor
- RF, plus daylight/occupancy sensing. One per luminaire, integrally mounted.

WLC(AWNR-BL) - Wireless Node (Black)
RF communication node. One per luminaire, integrally mounted.

WLC(AWNS-BL) - Wireless Node (Black) with Sensor
- RF, plus daylight/occupancy sensing. One per luminaire, integrally mounted.

WLC(AWNR-WH)
Athena Wireless Node

WLC(FCJS0)
PowPak Wireless Fixture Control

FC-SENSOR
PowPak Occupancy/Daylight Sensor

WLC(VDO)
Vive Integral Wireless Fixture Control

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