



SURFACE MOUNT MFF104

LED

SERIES 2FT, 4FT, 6FT, 8FT

4" WIDE METAL SIDED SURFACE/SUSPENSION MOUNTED

JOB	
TYPE	
DATE	

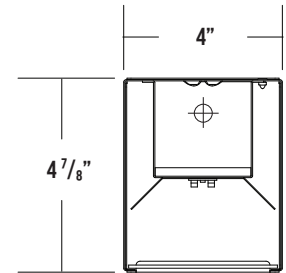
LALIGHTING.COM 626-454-8300

DIMENSIONS

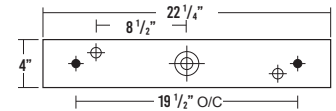


Two lenses with support bridge used for 6' and 8' lengths.

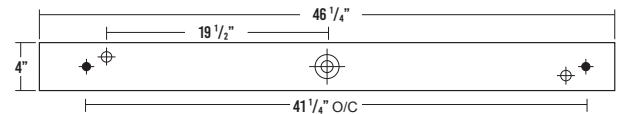
- 7/8" K.O.
- 2" K.O.
- 11/16" STEM MOUNTING K.O.



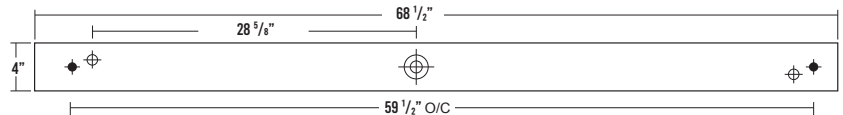
2-FT BACK PLATE



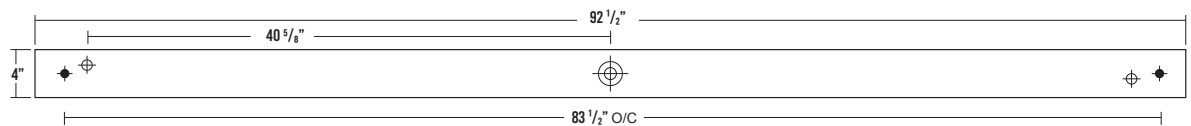
4-FT BACK PLATE



6-FT BACK PLATE



8-FT BACK PLATE



SPECIFICATIONS

CONSTRUCTION

- 22 gauge cold-rolled steel housing (2' and 4' lengths)
- 20 gauge cold-rolled steel housing (6' and 8' lengths)

FINISH

- Baked white powder coated finish
- Minimum reflectance 90%
- Welded and painted after fabrication

OPTICAL

- Flat frosted white acrylic lens

ELECTRICAL

- High efficiency drivers coupled with long-life LEDs
- Service life tested at 50,000 hours (L70)
- Universal voltage 120V~277V (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

- Office, Retail, Accent Lighting

FEATURES

- 0-10V Dimming driver standard
- Supports California Title 24 compliance

OPTIONS

- Controls
- Lens
- Custom housing colors
- Cord & plug
- Canopy / cable / stem suspension systems
- Emergency battery pack
- Tunable white (2700K - 6500K)
- Customization available upon request

CUSTOM COLORS

BLK - Matte Black

CS - Camaro Silver

BZ - Statuary Bronze

Variety of RAL colors available upon request.



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ORDERING INFORMATION

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

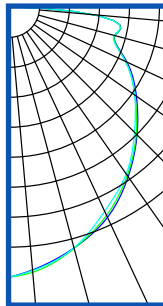
EXAMPLE: MFF104-4-4L-FFWA-BPL1.5-DRDM-UNV-1/840

SERIES	NOMINAL LED LUMENS	NOMINAL LENGTH	COLOR	OPTICAL	CONTROLS	ELECTRICAL	DRIVER	VOLTAGE	# OF LED ROWS	CRI / CCT
MFF104									1	
MFF104 • 4" Wide Metal Sided Surface/ Suspension Mounted	1 - 1000lm 2 - 2000lm 3 - 3000lm 4 - 4000lm High Efficacy 1HE - 1000lm 2HE - 2000lm 3HE - 3000lm	2L • 2ft	(Blank) • Standard White BLK • Matte Black BZ • Bronze CS • Camaro Silver	FFWA • Flat Frosted White Acrylic PA • Clear Prismatic Acrylic FFA • Frost Flat Acrylic Nom. 0.125 FPA2 • Frosted Prismatic Acrylic Nom. 0.125	WLC(AWNR-WH) Lutron Athena wireless node (RF) WLC(AWNS-WH) Lutron Athena wireless node w/ sensor Additional Lutron options on page (7)	BPLSL1.5 ¹ • Emergency Battery Pack • Slim Casing 1500 lm C(xx) • Cord 18 gauge 3-wire • Plug Options • NEMA Plug Type • Length of Cord • Location on the fixture *Leave blank if not specified	DRDM • 0-10V Dimming Driver DRSD • Step Dimming Driver DR2W • 2-Wire Phase Dimming Driver • Requires Specific Voltage callout	UNV • 120V-277V 120V • 120 Volt 277V • 277 Volt 347V • 347 Volt 480V • 480 Volt *Contact factory for additional voltage options	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
	2 - 2000lm 4 - 4000lm 6 - 6000lm 8 - 8000lm High Efficacy 2HE - 2000lm 4HE - 4000lm 6HE - 6000lm	4L • 4ft								
	3 - 3000lm 4 - 4000lm 6 - 6000lm 9 - 9000lm High Efficacy 3HE - 3000lm 4HE - 4000lm 6HE - 6000lm 9HE - 9000lm	6L • 6ft								
	4 - 4000lm 8 - 8000lm 12 - 12000lm 16 - 16000lm High Efficacy 4HE - 4000lm 8HE - 8000lm 12HE - 12000lm	8L • 8ft								
	Standard options for MFF104 shown above. For additional options, including lumen packages, controls, lenses, switches, finishes, and more, visit www.lalighting.com/resources or contact customer service.									
1 Battery not available for 2' luminaires										

PHOTOMETRIC DATA

MFF104-4-4L-FFWA-DRDM-UNV-1/840

TEST NO. = LA-T3606
 LED TYPE = 48 LED MODULE
 NO. OF MODULE = 2
 SYSTEM WATT (W) = 26.7
 CRI ≥ 80
 L70(Hrs.) ≥ 50,000
 PHOTOMETRY TYPE = C



ZONAL LUMEN SUMMARY

DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	612	16.9	21.8
0-40	1136	27.8	35.8
0-60	2080	50.9	65.6
0-90	3159	77.3	99.6
90-120	11	0.3	0.4
90-150	11	0.3	0.4
90-180	11	0.3	0.4
0-180	3171	77.6	100.0

Luminaire Output = 3170.79 lumens

Luminaire Efficacy = 118.76 lm/W

Luminaire Efficiency = 77.60%

SPACING CRITERION

ALONG	ACROSS
1.24	1.23



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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)	MFF104-1-2L-FFWA-DRDM-UNV-1/840	960	7.3	131.7 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F17T8	*
2000 Lumens (Nominal)	MFF104-2-2L-FFWA-DRDM-UNV-1/840	1576	12.4	127.4 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F24T5HO 2x F17T8	*
3000 Lumens (Nominal)	MFF104-3-2L-FFWA-DRDM-UNV-1/840	2475	20.3	121.9 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F17T8	*
4000 Lumens (Nominal)	MFF104-4-2L-FFWA-DRDM-UNV-1/840	3056	25.8	118.6 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F24T5HO 4x F17T8	*
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)	MFF104-1HE-2L-FFWA-DRDM-UNV-1/840	975	7.2	135.7 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F17T8	*
2000 Lumens (Nominal)	MFF104-2HE-2L-FFWA-DRDM-UNV-1/840	1606	12.1	132.9 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F24T5HO 2x F17T8	*
3000 Lumens (Nominal)	MFF104-3HE-2L-FFWA-DRDM-UNV-1/840	2539	19.6	129.5 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F17T8	*
4' - LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
2000 Lumens (Nominal)	MFF104-2-4L-FFWA-DRDM-UNV-1/840	1615	12.1	133.6 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F32T8	*
4000 Lumens (Nominal)	MFF104-4-4L-FFWA-DRDM-UNV-1/840	3171	24.7	128.1 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F54T5HO 2x F32T8	*
6000 Lumens (Nominal)	MFF104-6-4L-FFWA-DRDM-UNV-1/840	4680	37.9	123.5 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F32T8	*
8000 Lumens (Nominal)	MFF104-8-4L-FFWA-DRDM-UNV-1/840	6146	51.5	119.2 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F32T8	*
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)	MFF104-2HE-4L-FFWA-DRDM-UNV-1/840	1642	11.9	137.5 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F32T8	*
4000 Lumens (Nominal)	MFF104-4HE-4L-FFWA-DRDM-UNV-1/840	3230	24.2	133.6 lm/W	-20°C / 35°C (-4°F / 95°F)	1x F54T5HO 2x F32T8	*
6000 Lumens (Nominal)	MFF104-6HE-4L-FFWA-DRDM-UNV-1/840	4796	36.7	130.7 lm/W	-20°C / 35°C (-4°F / 95°F)	3x F32T8	*
6' - LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
3000 Lumens (Nominal)	MFF104-3-6L-FFWA-DRDM-UNV-1/840	2509	19.4	129.5 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F25T8 3x F17T8	*
4000 Lumens (Nominal)	MFF104-4-6L-FFWA-DRDM-UNV-1/840	3120	24.3	128.2 lm/W	-20°C / 35°C (-4°F / 95°F)	4x F17T8	*
6000 Lumens (Nominal)	MFF104-6-6L-FFWA-DRDM-UNV-1/840	4626	37.1	124.6 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F39T5HO 6x F17T8	*
9000 Lumens (Nominal)	MFF104-9-6L-FFWA-DRDM-UNV-1/840	6685	55.6	120.3 lm/W	-20°C / 35°C (-4°F / 95°F)	6x F25T8	*
6' - LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE (HIGH EFFICACY) PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
3000 Lumens (Nominal)	MFF104-3HE-6L-FFWA-DRDM-UNV-1/840	2240	16.7	134.3 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F25T8 3x F17T8	*
4000 Lumens (Nominal)	MFF104-4HE-6L-FFWA-DRDM-UNV-1/840	3171	23.9	132.5 lm/W	-20°C / 35°C (-4°F / 95°F)	4x F17T8	*
6000 Lumens (Nominal)	MFF104-6HE-6L-FFWA-DRDM-UNV-1/840	4713	36.3	130.0 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F39T5HO 6x F17T8	*
9000 Lumens (Nominal)	MFF104-9HE-6L-FFWA-DRDM-UNV-1/840	6847	53.8	127.3 lm/W	-20°C / 35°C (-4°F / 95°F)	6x F25T8	*



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8' - LED LUMEN PACKAGE	NORMAL AMBIENT TEMPERATURE PRODUCT CODE	DELIVERED LUMENS	SYSTEM WATTS	LUMINAIRE EFFICACY	AMBIENT TEMP.	FLUORESCENT EQUIVALENT	IES FILES
4000 Lumens (Nominal)	MFF104-4-8L-FFWA-DRDM-UNV-1/840	3257	24.2	134.8 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F32T8	*
8000 Lumens (Nominal)	MFF104-8-8L-FFWA-DRDM-UNV-1/840	6393	49.5	129.2 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F32T8	*
12000 Lumens (Nominal)	MFF104-12-8L-FFWA-DRDM-UNV-1/840	9439	75.8	124.6 lm/W	-20°C / 35°C (-4°F / 95°F)	6x F32T8 2x F96T8HO	*
16000 Lumens (Nominal)	MFF104-16-8L-FFWA-DRDM-UNV-1/840	12394	103.1	120.2 lm/W	-20°C / 35°C (-4°F / 95°F)	4x F54T5HO 8x F32T8	*
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)	MFF104-4HE-8L-FFWA-DRDM-UNV-1/840	3310	23.9	138.6 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F32T8	*
8000 Lumens (Nominal)	MFF104-8HE-8L-FFWA-DRDM-UNV-1/840	6195	45.8	135.2 lm/W	-20°C / 35°C (-4°F / 95°F)	2x F54T5HO 4x F32T8	*
12000 Lumens (Nominal)	MFF104-12HE-8L-FFWA-DRDM-UNV-1/840	9359	70.8	132.3 lm/W	-20°C / 35°C (-4°F / 95°F)	6x F32T8 2x F96T8HO	*

NOTE:
System data as of 8/13/25 (K-Boards when applicable).
Luminaire efficiency: 2ft - 75.3%, 4ft - 75.8% 6ft - 73.7% 8ft - 76.4%
Subject to change without notice.

System data is based on 120V input voltage. Actual performance may differ as a result of end-user environment and application. 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 noted in the system data table.

Additional lumen packages and color temperatures available.



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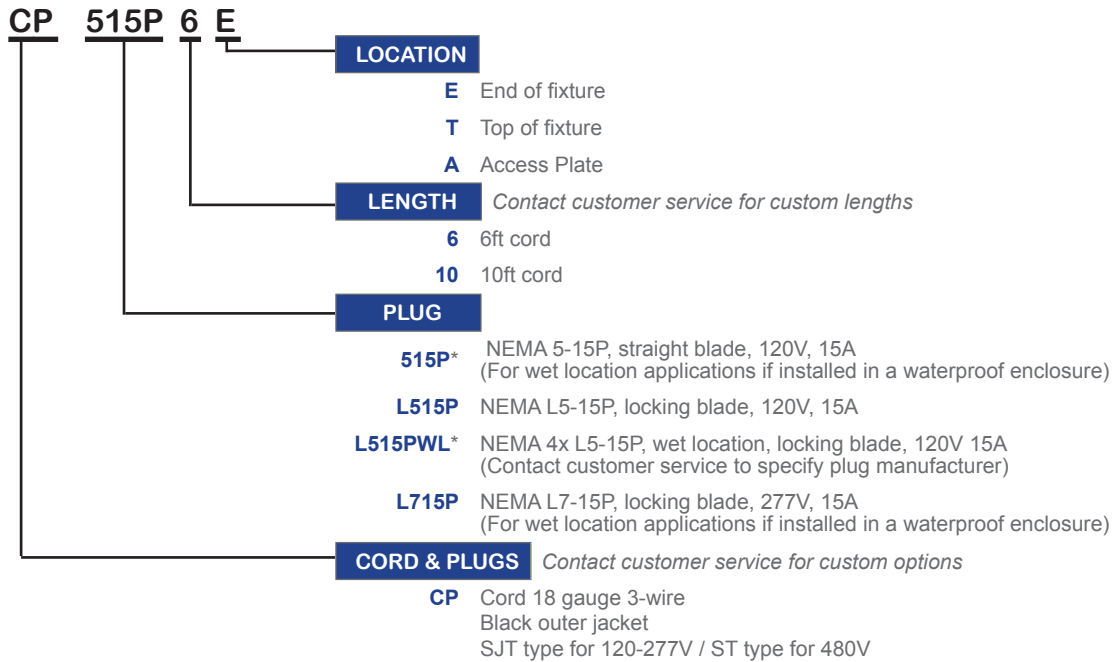


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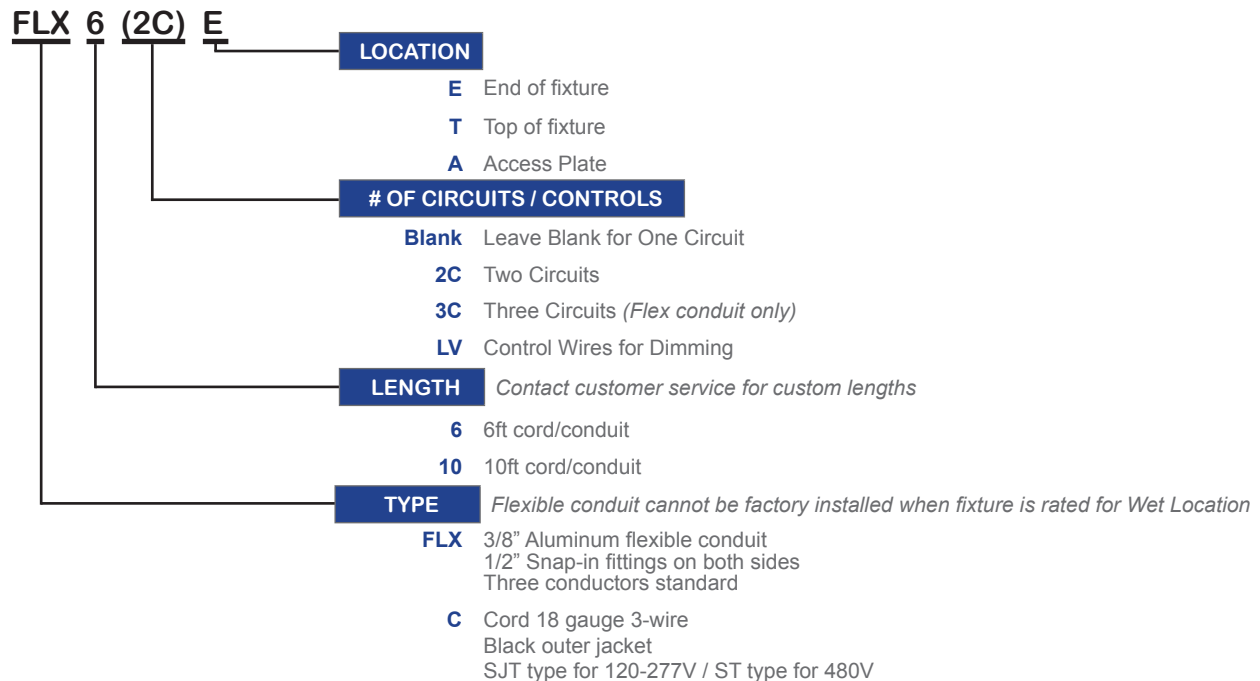
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ELECTRICAL**CORD & PLUG**

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

CORD & FLEXIBLE CONDUIT OPTIONS

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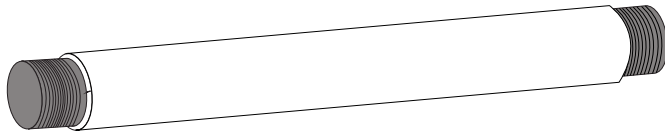
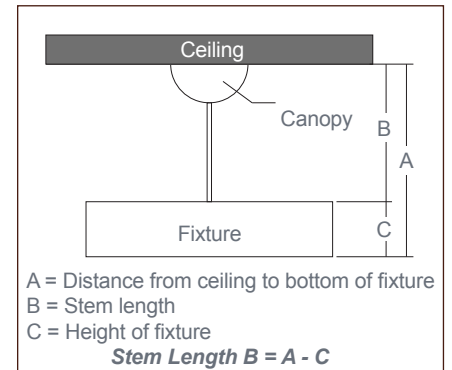


MOUNTING ACCESSORIES

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****CANOPY / CABLE SUSPENSION SYSTEM**

- Self-locking, one-step adjustable suspension device with canopy

**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-48W-2C**# OF CIRCUITS**

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

COLOR

W - White
B - Black

CABLE LENGTH

48 - 48 inches
96 - 96 inches

(other lengths as specified)



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MADE IN THE USA
 BAA/BABA Compliant



WIRELESS CONTROLS

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.

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

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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