SURFACE MOUNT LED
MFF104 SERIES 2FT, 4FT, 6FT, 8FT
4" WIDE METAL SIDED SURFACE/SUSPENSION MOUNTED

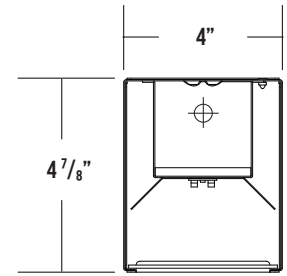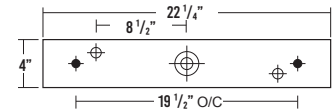LA LIGHTING ®

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

DIMENSIONS

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

4"

4 7/8"

2-FT BACK PLATE
22 1/4"
8 1/2"
4"
19 1/2" O/C

4-FT BACK PLATE
46 1/4"
19 1/2"
4"
41 1/4" O/C

6-FT BACK PLATE
68 1/2"
28 5/8"
4"
59 1/2" O/C
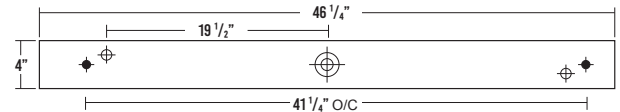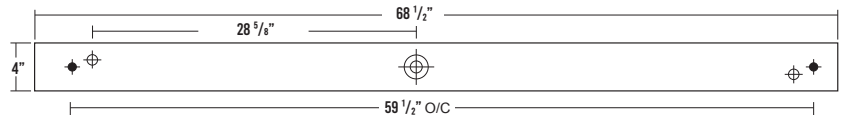
8-FT BACK PLATE
92 1/2"
40 5/8"
4"
83 1/2" O/C
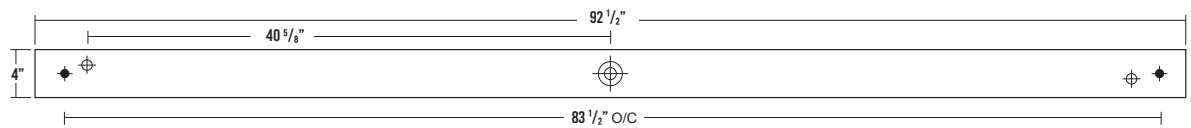
SPECIFICATIONS

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.

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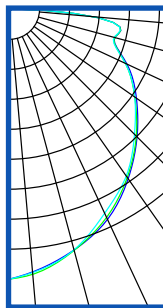
ZONAL LUMEN SUMMARY			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	612	16.9	21.8
0-40	1136	27.8	35.8
0-60	2080	50.9	65.6
0-90	3159	77.3	99.6
90-120	11	0.3	0.4
90-150	11	0.3	0.4
90-180	11	0.3	0.4
0-180	3171	77.6	100.0

Luminaire Output = 3170.79 lumens
Luminaire Efficacy = 118.76 lm/W
Luminaire Efficiency = 77.60%

SPACING CRITERION	
ALONG	ACROSS
1.24	1.23

Los Angeles Lighting Mfg. Co.
Contact Us
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F: 626-454-8399   El Monte, CA 91731
www.lalighting.com   Made in the USA

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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	784	7.6	102.7 lm/W	-20°C / 35°C (-4°F / 95°F)	1-F17T8	*
2000 Lumens (Nominal)	MFF104-2-2L-FFWA-DRDM-UNV-1/840	1539	14.1	109.0 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F17T8	LA-T3605
3000 Lumens (Nominal)	MFF104-3-2L-FFWA-DRDM-UNV-1/840	2357	22.1	106.5 lm/W	-20°C / 35°C (-4°F / 95°F)	3-F17T8	*
4000 Lumens (Nominal)	MFF104-4-2L-FFWA-DRDM-UNV-1/840	3120	27.3	114.4 lm/W	-20°C / 35°C (-4°F / 95°F)	4-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	848	7.5	113.0 lm/W	-20°C / 35°C (-4°F / 95°F)	1-F17T8	*
2000 Lumens (Nominal)	MFF104-2HE-2L-FFWA-DRDM-UNV-1/840	1507	12.4	121.8 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F17T8	*
3000 Lumens (Nominal)	MFF104-3HE-2L-FFWA-DRDM-UNV-1/840	2276	18.7	121.8 lm/W	-20°C / 35°C (-4°F / 95°F)	3-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	13.4	120.4 lm/W	-20°C / 35°C (-4°F / 95°F)	1-F32T8	*
4000 Lumens (Nominal)	MFF104-4-4L-FFWA-DRDM-UNV-1/840	3171	26.7	118.7 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F32T8 1-F54T5HO	LA-T3606
6000 Lumens (Nominal)	MFF104-6-4L-FFWA-DRDM-UNV-1/840	4938	43.7	113.1 lm/W	-20°C / 35°C (-4°F / 95°F)	3-F32T8	*
8000 Lumens (Nominal)	MFF104-8-4L-FFWA-DRDM-UNV-1/840	6427	51.1	125.7 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)	MFF104-2HE-4L-FFWA-DRDM-UNV-1/840	1746	13.5	128.9 lm/W	-20°C / 35°C (-4°F / 95°F)	1-F32T8	*
4000 Lumens (Nominal)	MFF104-4HE-4L-FFWA-DRDM-UNV-1/840	3104	23.5	132.4 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F32T8 1-F54T5HO	*
6000 Lumens (Nominal)	MFF104-6HE-4L-FFWA-DRDM-UNV-1/840	4689	364	128.8 lm/W	-20°C / 35°C (-4°F / 95°F)	3-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	2354	20.1	117.0 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F32T8 1-F54T5HO	*
4000 Lumens (Nominal)	MFF104-4-6L-FFWA-DRDM-UNV-1/840	2968	24.7	120.1 lm/W	-20°C / 35°C (-4°F / 95°F)	4-F32T8 2-F54T5HO	*
6000 Lumens (Nominal)	MFF104-6-6L-FFWA-DRDM-UNV-1/840	4458	39.0	114.2 lm/W	-20°C / 35°C (-4°F / 95°F)	6-F32T8 3-F54T5HO	LA-T3876b
9000 Lumens (Nominal)	MFF104-9-6L-FFWA-DRDM-UNV-1/840	6708	59.8	112.0 lm/W	-20°C / 35°C (-4°F / 95°F)	8-F32T8 4-F54T5HO	*

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	2237	17.4	128.1 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F32T8 1-F54T5HO	*
4000 Lumens (Nominal)	MFF104-4HE-6L-FFWA-DRDM-UNV-1/840	2981	22.8	130.6 lm/W	-20°C / 35°C (-4°F / 95°F)	4-F32T8 2-F54T5HO	*
6000 Lumens (Nominal)	MFF104-6HE-6L-FFWA-DRDM-UNV-1/840	4422	34.4	128.4 lm/W	-20°C / 35°C (-4°F / 95°F)	6-F32T8 3-F54T5HO	*
9000 Lumens (Nominal)	MFF104-9HE-6L-FFWA-DRDM-UNV-1/840	6680	54.5	122.4 lm/W	-20°C / 35°C (-4°F / 95°F)	6-F32T8 3-F54T5HO	*

NOTE:

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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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)	MFF104-4-8L-FFWA-DRDM-UNV-1/840	3179	25.8	123.4 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F32T8 1-F54T5HO	*
8000 Lumens (Nominal)	MFF104-8-8L-FFWA-DRDM-UNV-1/840	6243	52.7	118.5 lm/W	-20°C / 35°C (-4°F / 95°F)	4-F32T8 2-F54T5HO	LA-T3607
12000 Lumens (Nominal)	MFF104-12-8L-FFWA-DRDM-UNV-1/840	9440	81.9	115.2 lm/W	-20°C / 35°C (-4°F / 95°F)	6-F32T8 3-F54T5HO	*
16000 Lumens (Nominal)	MFF104-16-8L-FFWA-DRDM-UNV-1/840	12382	99.2	124.8 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)	MFF104-4HE-8L-FFWA-DRDM-UNV-1/840	3093	22.7	136.0 lm/W	-20°C / 35°C (-4°F / 95°F)	2-F32T8 1-F54T5HO	*
8000 Lumens (Nominal)	MFF104-8HE-8L-FFWA-DRDM-UNV-1/840	6111	45.3	134.9 lm/W	-20°C / 35°C (-4°F / 95°F)	4-F32T8 2-F54T5HO	*
12000 Lumens (Nominal)	MFF104-12HE-8L-FFWA-DRDM-UNV-1/840	9232	71.1	129.8 lm/W	-20°C / 35°C (-4°F / 95°F)	6-F32T8 3-F54T5HO	*

NOTE:
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.

RoHS COMPLIANT   **UL** CERTIFIED

Due to continued product improvements and enhancements, Los Angeles Lighting Manufacturing Company reserves the right to alter specifications, dimensions, data, and/or materials without notice.
Please visit our website to view the most current information.
Revised:02/17/2025

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ELECTRICAL

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)
L715P NEMA L7-15P, locking blade, 277V, 15A
(For wet location applications if installed in a waterproof enclosure)

CORD & PLUGS *Contact customer service for custom options*
CP Cord 18 gauge 3-wire
Black outer jacket
SJT type for 120-277V / ST type for 480V

*Consult local building codes for specific wet location installation requirements

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
SJT type for 120-277V / ST type for 480V

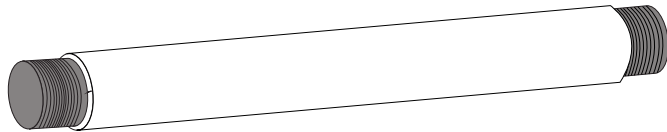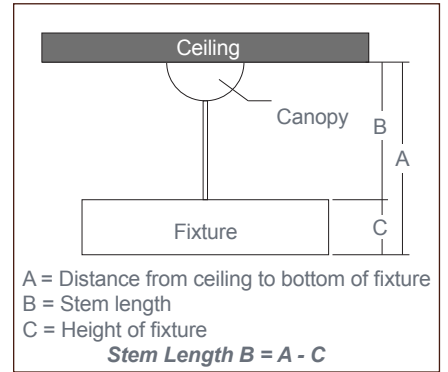## MOUNTING ACCESSORIES

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

Ceiling

Canopy

B

A

Fixture

C

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 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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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.

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