

FEATURES & SPECIFICATIONS

INTENDED USE — Available in several color temperatures, lumen packages and lengths. Ideal for use in commercial, retail, office, warehouse and display applications. **Certain airborne contaminants can diminish integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. [Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.](#)

CONSTRUCTION — Compact-design channel and cover are formed from code compliant, 22 gauge cold-rolled steel.

SENSOR SWITCH JUST ONE TOUCH TECHNOLOGY — Single room control wireless technology available for easy install and commissioning to aid in code compliance. The JOT option enables the fixture with Just One Touch pairing capability. The JOTVXTX15 option features a luminaire-embedded occupancy and ambient light sensor allows the luminaire to power off when the space is unoccupied or when enough ambient light is entering the space.

SENSOR SWITCH VISIBLE LIGHT PROGRAMMING TECHNOLOGY — Standalone sensor programming via VLP mobile app and smart device's camera flash from up to 8ft away.

FINISH — High-gloss, baked white enamel (standard).

OPTICS — LEDs provide 80+ color rendering index (CRI) at 3500K, 4000K and 5000K. Diffuse acrylic lens with ultra-sonically welded end caps provides smooth, linear illumination.

ELECTRICAL — Luminaire Surge Protection Level: Designed to withstand up to 2.5kV/0.75kA per ANSI C82.77-5-2015. For applications requiring higher level of protection additional surge protection must be provided.

Driver is standard 0-10V dimming class 2.

Optional internal pluggable wiring harness for reduced labor cost in row mounting applications. (See PLR_ordering information on page 5.)

INSTALLATION — Fixture may be surface or suspension mounted with appropriate mounting options (see accessories). Easy to install row aligner bracket included for continuous row mounting.

LISTINGS — CSA certified to US and Canadian safety standards and listed suitable for damp locations. Minimum starting temperature of -22°F (-30°C). Maximum ambient operating temperature of 104°F (40°C) for 4ft models and 95°F (35°C) for 2ft & 8ft models. See notes for controls temperature restrictions.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Suitable for use within closet spaces when installed per NEC 410.16 (A)(1) and 410.16(C)(3)(5) spacing requirements.

BUY AMERICAN ACT — Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Catalog Number
Notes
Type

LED Strip Light

CSS



A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® or XPoint™ Wireless control networks marked by a [shaded background](#)*

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

CSS LED Strip Light



Looking for Contractor Select readily available configurations? Click here to visit Contractor Select™ spec sheet or go to www.contractorselect.com

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** CSS L96 AL04 MVOLT SWW3 80CRI

Series	Nominal Length	Lumen Output	Voltage	Color temperature	Color rendering index
CSS Contractor Single Strip LED	L24 22"	2000LM 2000 Lumens AL015 Switchable lumens, 1500LM / 2000LM / 2500LM	MVOLT 120-277V UVOLT 120-347V	35K 3500K 40K 4000K 50K 5000K SWW3 Switchable white, 35K / 40K / 50K	80CRI 80 CRI
	L48 48"	4000LM 4000 Lumens AL03 Switchable lumens, 3000LM / 4000LM / 5000LM			
	L96 96"	8000LM 8000 Lumens AL04 Switchable lumens, 6000LM / 8000LM / 10000LM			

Options	
Emergency Battery: ‡ IE7WCP Emergency battery pack, 7W, CA Title 20 Noncompliant IE10WCPHE Emergency battery pack, 10W, Certified in CA Title 20 MAEDBS Plug-in Wiring: ‡ PLR___ Plug-in wiring, see page 5 for ordering information PLR1LVG Plug-in wiring, low voltage dimming JOT Enabled Wireless Controls: ‡ JOT Wireless room control with "Just One Touch" pairing JOTVTX15 Wireless occupancy sensor with "Just One Touch" pairing	VLP Enabled Controls: ‡ VTX15FADC Vertex sensor with Visible Light Programming; On/Off Occupancy with Auto Dimming Photocell (default) VTX15FANL Vertex sensor with Visible Light Programming; High/Low/(Off) Occupancy Dimming with Auto Dimming Photocell (default) Individual Controls: ‡ SFR30CSS Factory installed 360°, large motion, high bay sensor, SFR 30 SFR7CSS Factory installed 360°, small motion, low bay sensor, SFR 7 ‡ Wire Guard (ships separately): WG Wire Guard ‡

NOTE: ‡ indicates option chosen has ordering restrictions. Please reference ordering restrictions chart.

Switchable White & Adjustable Lumen Output – BAA Compliant:
CSS L48 AL03 MVOLT SWW3 80CRI BAA CSS L96 AL04 MVOLT SWW3 80CRI BAA CSS L48 AL03 MVOLT SWW3 80CRI IE10WCPHE BAA CSS L96 AL04 MVOLT SWW3 80CRI IE10WCPHE BAA

Accessories: Order as separate catalog number.
HC36 M12 Hanger chain, 36" (1 pair) ZACVH M100 Adjustable 10' aircraft cable with Y hanger (1 pair) SQ_ Swivel stem hanger (specify length in 2" increments up to 48") rPP20D nLight® air dimming/switching module SFR30CSS Field installed 360°, large motion, high bay sensor, SFR 30 ‡ SFR7CSS Field installed 360°, small motion, low bay sensor, SFR 7 ‡ Y J10 Y hanger in multiples of 10 (five pair) WGCS Wire Guard with Mounting hardware (one 4ft) MNLK JBOXCVR M12 Junction box cover and hardware, white

‡ Option Value Ordering Restrictions	
Option value	Restriction
L24	Not available with IE7WCP, IE10WCPHE, JOT, JOTVTX15, VTX15FADC, VTX15FANL, SFR30CSS, SFR7CSS, WG.
35K, 40K, 50K	Not available with AL0 lumen packages.
2000LM, 4000LM, 8000LM	Not available with SWW3.
Emergency Battery	Not available with PLR
JOT Enabled Controls	Not available with AL03, AL04, UVOLT or SWW3. Minimum starting temp of 14°F (-10°C). Maximum operating temp of L48 at 95°F (35°C) & L96 at 86°F (30°C). Controls contained in endcap.
VLP Enabled Sensors	Not available with AL015, AL03, AL04, UVOLT or SWW3. See page 5 for default programming and coverage pattern information. Sensors contained in endcap.
SFR Sensors	Can only be mounted at the end of continuous row mount applications. On/off function only. Minimum starting temp of 14°F (-10°C). Sensors mount to end of fixture. 120-277V operation only. NOT for use on UVOLT fixtures operating at 347V.
Wire Guard	Does not cover SFR controls. Not recommended for use with endcap integrated JOT or VLP enabled controls due to potential detection obstruction.
PLR___ & PLR1LVG	Not available with Emergency or Controls. L24 only available with PLR1LVG.
UVOLT	Not available with JOT or VTX.
UVOLT/347	Not available with Emergency.
ILBHI CP10 HE SD A	High voltage emergency driver (347-480V). For use with UVOLT fixtures ONLY at 347V operation.

ACCESSORY BATTERY PACKS - SUITABLE FOR FIELD INSTALLATION

Remote mount outside the fixture.

Battery Part Number	CA Title 20	Self Diagnostics
ILB CP10 A	No	No
ILB CP10 HE A	Yes	No
ILBLP CP10 HE SD A	Yes	Yes
ILBHI CP10 HE SD A ‡	Yes	Yes
LEMO4 A	Yes	No
LEMO8 A	Yes	No

How to Estimate Delivered Lumens in Emergency Mode

Use the formula below to estimate the delivered lumens in emergency mode

$$\text{Delivered Lumens} = 1.25 \times P \times \text{LPW}$$

P = Output power of emergency driver. P = 10W for IE10WCPHE

LPW = Lumen per watt rating of the luminaire. This information is available on the ABL luminaire spec sheet.

The LPW rating is also available at Designlight Consortium.

OPERATIONAL DATA

MVOLT

Nominal Length	Nominal Lumen Package	Color Temperature	Delivered Lumens	Wattage	Lumens/Watt
L24	2000 LM	4000K	2144	15.3	140
	AL015 (1500LM)	3500K	1889	13.2	143
		4000K	1872	13.0	144
		5000K	1842	13.3	139
	AL015 (2000LM)	3500K	2256	16.5	137
		4000K	2386	16.1	148
		5000K	2357	16.5	143
	AL015 (2500LM)	3500K	2600	19.7	132
		4000K	2757	19.0	145
		5000K	2634	19.6	135
L48	4000 LM	4000K	4298	35.3	122
	AL03 (3000LM)	3500K	3708	27.3	136
		4000K	3931	26.3	150
		5000K	3851	27.1	142
	AL03 (4000LM)	3500K	4732	36.2	131
		4000K	5076	34.8	146
		5000K	4896	36.2	135
	AL03 (5000LM)	3500K	5437	43.3	126
		4000K	5884	41.5	142
		5000K	5622	43.4	130
L96	8000 LM	4000K	8596	72.0	119
	AL04 (6000LM)	3500K	6272	46.2	136
		4000K	6575	44.7	147
		5000K	6510	46.1	141
	AL04 (8000LM)	3500K	8173	64.1	128
		4000K	8702	61.7	141
		5000K	8450	64.5	131
	AL04 (10000LM)	3500K	11089	90.4	123
		4000K	12046	86.5	139
		5000K	11437	90.8	126

Note: All values are typical and are at 25C.
Actual performance may vary and is dependent on operating environment.

UVOLT

Nominal Length	Nominal Lumen Package	Color Temperature	Delivered Lumens	Wattage	Lumens/Watt
L24	2000 LM	4000K	2120	14.8	143
	AL015 (1500LM)	3500K	1438	10.6	136
		4000K	1464	10.3	142
		5000K	1449	10.6	137
	AL015 (2000LM)	3500K	1891	15.3	124
		4000K	1961	14.9	131
		5000K	1918	15.3	125
	AL015 (2500LM)	3500K	2541	19.2	132
		4000K	2654	18.7	142
		5000K	2569	19.2	134
L48	4000 LM	4000K	4803	37.9	127
	AL03 (3000LM)	3500K	3501	25.7	136
		4000K	3659	27.1	135
		5000K	3540	27.1	131
	AL03 (4000LM)	3500K	4435	34.5	129
		4000K	4727	36.0	131
		5000K	4521	36.0	126
	AL03 (5000LM)	3500K	5665	46.0	123
		4000K	6109	43.7	140
		5000K	5710	45.7	125
L96	8000 LM	4000K	9606	75.8	127
	AL03 (6000LM)	3500K	6867	49.9	138
		4000K	7199	49.9	144
		5000K	7128	49.9	143
	AL03 (8000LM)	3500K	8736	65.3	134
		4000K	9301	65.3	142
		5000K	9032	65.3	138
	AL03 (10000LM)	3500K	10989	90.9	121
		4000K	11937	90.9	131
		5000K	11333	90.9	125

PROJECTED LUMEN MAINTENANCE			
Lumen Maintenance Factor	0.91	0.81	0.75
Operating Hours	40,000	90,000	120,000

Note: Actual performance may vary based on ambient temperature of installed location.

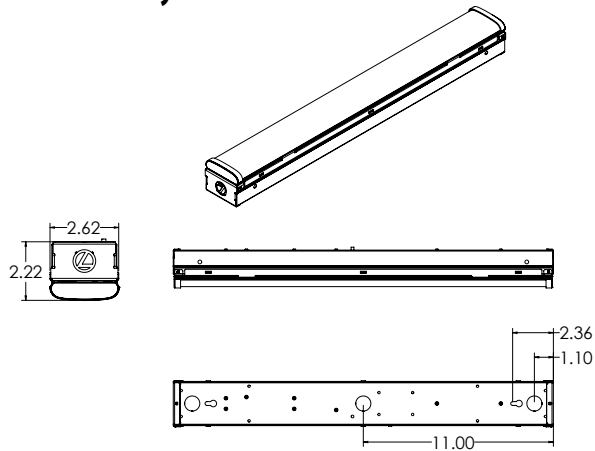
DIMENSIONS

All dimensions are shown in inches unless otherwise noted.

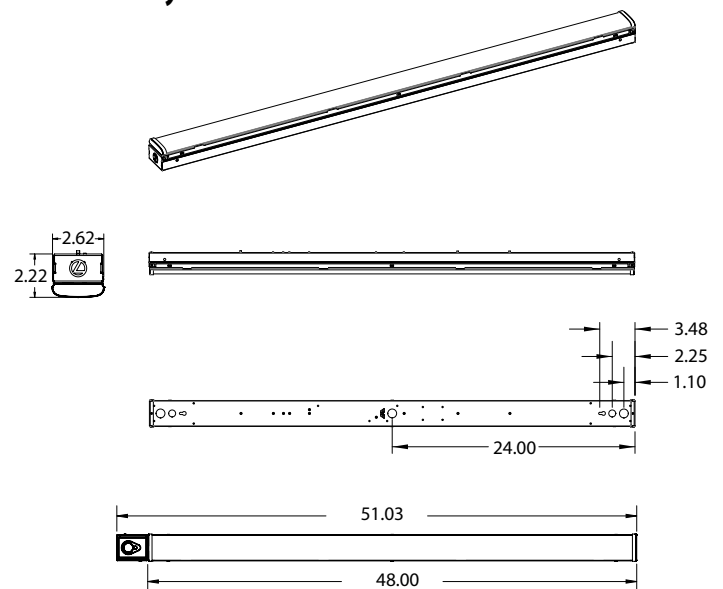
Nominal Length	Length	Width	Height	Approximate weight	Fixtures per pallet	Pallet Dimensions
L24	22"	2.62	2.22	2.5 lbs	336	40 x 48
L48	48"	2.62	2.22	5 lbs	135	46 x 57
L96	96"	2.62	2.22	10 lbs	102	46 x 98.5

*Weights will vary slightly with added options.

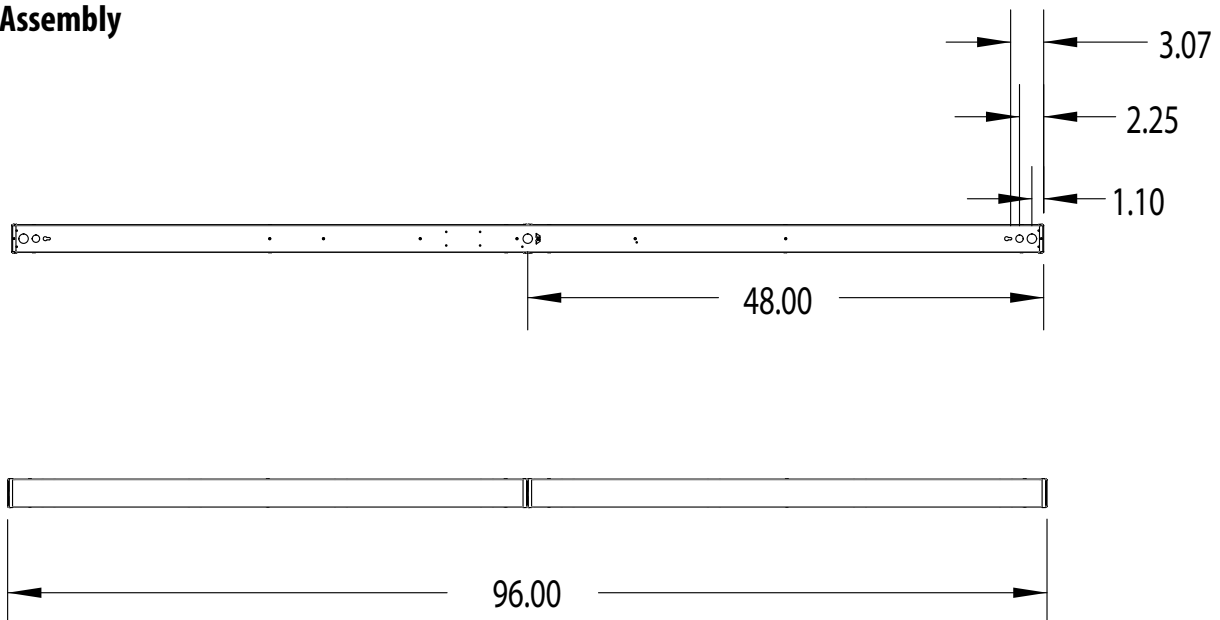
2FT Assembly



4FT Assembly



8FT Assembly



PLUG-IN WIRING OPTION

Advanced plug-in system with two-circuit capability. Available on industrial and strip products and a variety of architectural products mounted in continuous rows. PLR22 (2-circuit) and crossover harness switches hot circuit serving next fixture in row. Reduces fixture types on job for alternating circuit applications (see example below.)

Easy one-step installation, saves up to 35% on labor costs. Expanded switching flexibility helps save energy.

Rows can be 50% longer with two-circuit systems. Polarized, lock-together nylon connectors prevent miswiring in the field. #12 THHN conductor, rated 600V, 90°C. White neutral wire included. Grounding accomplished by fixture in-row connectors.

CSA certified systems available with up to 2 circuits. G ground required.

Not for use with dedicated emergency circuits.

Note: Specifications subject to change without notice.



PLR

Advanced 1 or 2-Circuit Plug-In

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

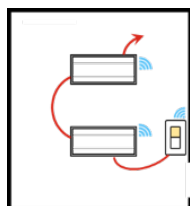
Series	Number of hot wires	Branch circuits	Dimming	Ground
PLR	(blank) Not required for PLR22	<u>Circuits to which driver is connected</u>	LV Low-voltage dimming	G Ground (required)
PLR22	1 Black	(blank) Not required for PLR22		
	2 Black and red	A Black wire		
		B Red wire		

Typical Applications

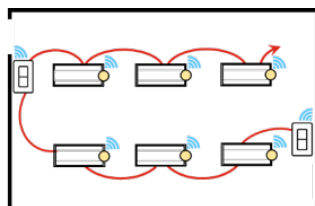
- Multiple-circuit and single-circuit for longer continuous rows
- Multiple-circuit with alternating fixtures on separate circuits and 2-circuit (PLR22)
- Multiple circuit with night-lights located along row as desired

JOT ENABLED WIRELESS CONTROLS

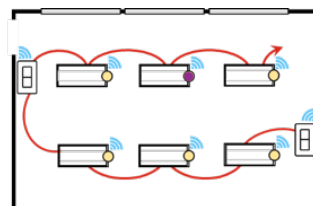
TYPICAL SMALL ROOM APPLICATION (UP TO 250 SQ. FT.)



One Entryway
1x WSXA JOT
2x JOT Enabled Fixture



Two Entryways
2x SPODMRA JOT
6x JOT Enabled Fixture with Occupancy Sensor

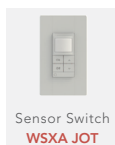


Two Entryways with Daylight Harvesting
2x SPODMRA JOT
1x JOT Enabled Fixture with Photocell and Occupancy Sensor
5x JOT Enabled Fixture with Occupancy Sensor



JOT

For use with
Sensor Switch
WSXA JOT
Dimming Wall
Switch Sensor

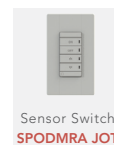


Sensor Switch
WSXA JOT



JOTVTX15

For use with
Sensor Switch
SPODMRA JOT
Dimming Wall
Switch



Sensor Switch
SPODMRA JOT

	Default Firmware					
Option	OCC Time Delay	Dim to Off Time Delay	Photocell Mode	Photocell Setpoint	Low Trim	High Trim
VTX15FADC or JOTVTX15	10 Min	N/A	On/Off & Auto Dimming	50FC	10%	100%
VTX15FANL		Stay At Dim (Never Off)				
SFR7CSS or SFR30CSS		N/A				

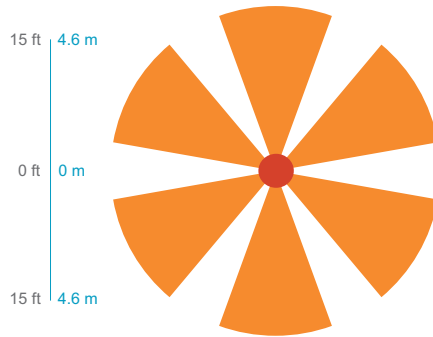
VTX & JOTVTX SENSOR COVERAGE PATTERNS

15F LARGE MOTION EXTENDED RANGE 360°

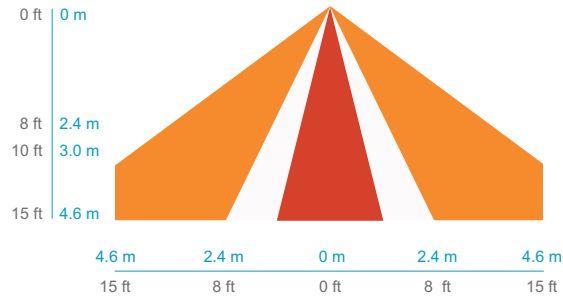
- Optimized full coverage from 8 ft - 15 ft (2.4 m - 4.5 m) mounting heights
- Reliable detection of large motion (e.g. pedestrian walking traffic)
- 1.3 x's mounting height equals approximate detection range



TOP VIEW



SIDE VIEW



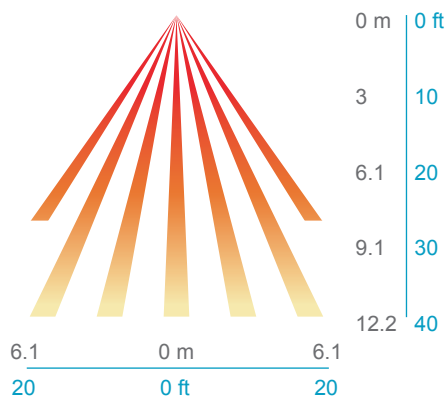
SFR SENSOR COVERAGE PATTERNS

SFR 30 UNIVERSAL 360°

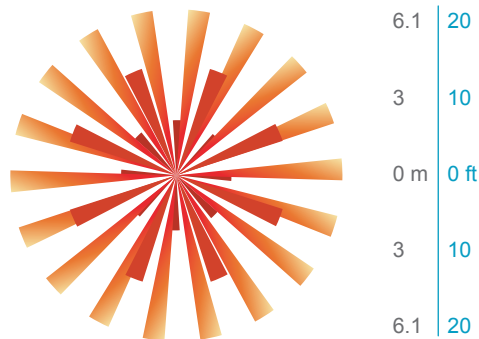
- Provides excellent detection of large motion (e.g. walking) when mounted between 15 to 40 ft (4.57 to 12.19 m)
- 15 to 20 ft (4.57 to 6.10 m) radial coverage overlaps area lit by a typical high bay fixture
- Recommended for fixtures that have a 1:1 spacing to mounting height ratio or less (e.g. fixtures 30' on center or less @ a 30' mounting height).



SIDE VIEW

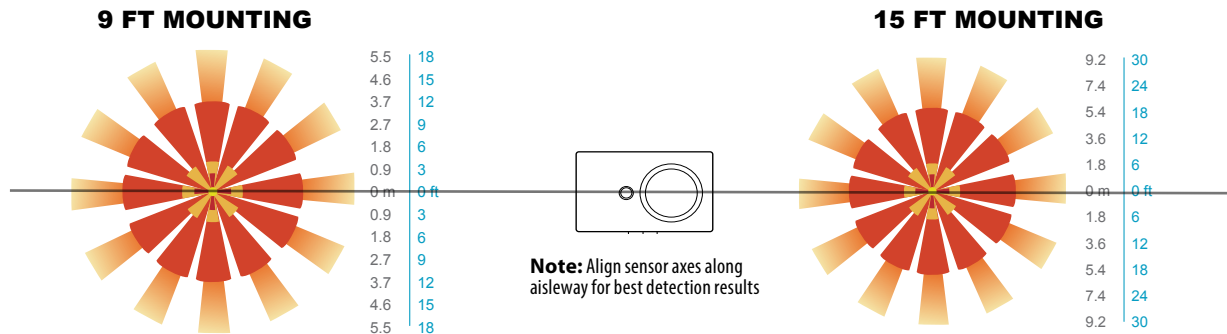


TOP VIEW



SFR 7 MINI LOW BAY 360°

- Recommended for walking motion detection from mounting heights between 8 ft (2.44 m) and 20 ft (6.10 m)
- Initial detection of walking motion along sensor axes at distances of 2x the mounting height up to 15 ft (4.57 m) and 1.75x up to 20 ft (6.10 m).
- Provides 12 ft (3.66 m) radial detection of small motion when mounted at 9 ft (2.74 m)
- Initial detection will occur earlier when walking across sensor's field of view than when walking directly at sensor



MAXIMUM # OF FIXTURES PER SFR SENSOR

Nomenclature	Maximum # of Fixtures per SFR SENSOR
CSS L48 4000LM MVOLT	20
CSS L48 ALO3 MVOLT	16
CSS L96 8000LM MVOLT	10
CSS L96 ALO4 MVOLT	8

*PLR option recommended for continuous row mounting with SFR sensor. Input power for continuous row must come through end-of-row fixture with sensor. SFR sensor operates On/Off only.

PHOTOMETRICS

Please see www.lithonia.com.