Jump

Surface | **Installation Instructions**
ID-1211_Jump_Surface

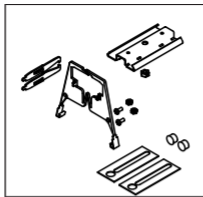Standalone or continuous run configurations

LEDALITE
by Signify

System Overview

These instructions review how to install Jump suspended fixtures. Jump 4ft and 8ft modules can be installed as individual standalone units, or they can be joined together to create continuous runs. The graphic below shows the components required to install a typical run of Jump suspended fixtures.
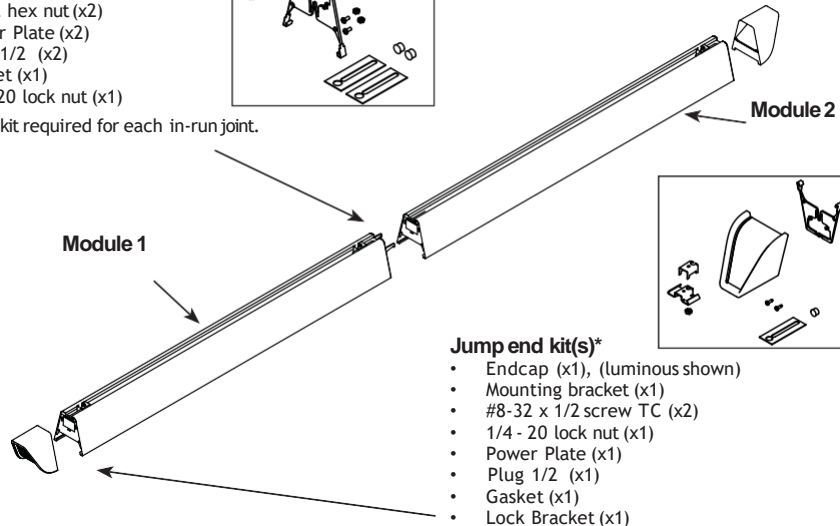
IMPORTANT: Read all instructions <u>including fixture/sensor wiring AND mechanical details before</u> beginning installation

Jump joint kit(s)*
- Mounting bracket (x1)
- Break apart joiner aligner (x1)
- #8-32 x 1/2 screw (x2)
- #8-32 hex nut (x2)
- Power Plate (x2)
- Plug 1/2 (x2)
- Gasket (x1)
- 1/4 - 20 lock nut (x1)

*NOTE: 1 kit required for each in-run joint.
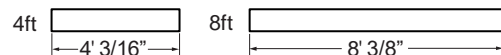
Module 2

Module 1

Jump end kit(s)*
- Endcap (x1), (luminous shown)
- Mounting bracket (x1)
- #8-32 x 1/2 screw TC (x2)
- 1/4 - 20 lock nut (x1)
- Power Plate (x1)
- Plug 1/2 (x1)
- Gasket (x1)
- Lock Bracket (x1)

*NOTE: 2 kits required for each run (one for each end).

TOOLS REQUIRED: Phillips screwdriver, 3/8" nut driver, 7/16" Nutdriver

Module Lengths

Jump suspended systems come in 4ft and 8ft modules. Overall module lengths are shown below. Module lengths do not include endcaps.

4ft — 4' 3/16"   8ft — 8' 3/8"

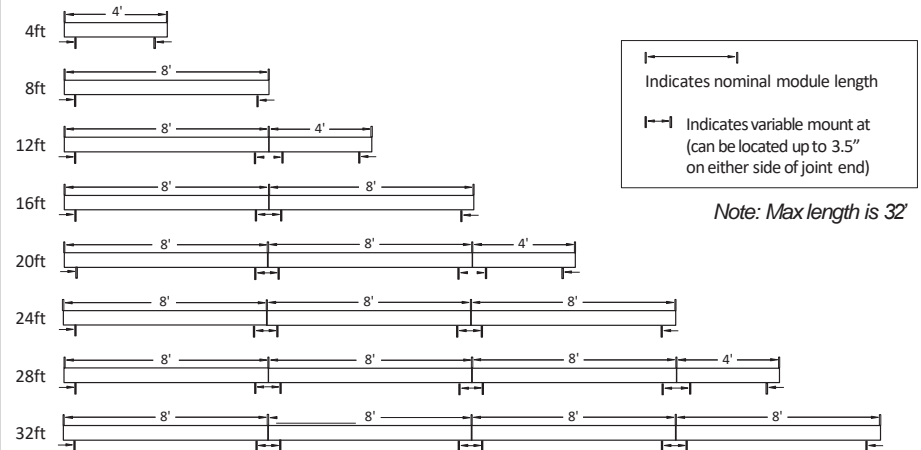Indicates overall length of fixture (excluding endcaps)

Endcaps

Add two endcaps to the length of each run.

0.6"   3.8"   4.5"

Mount Spacing

For on-grid T-bar ceiling installations, mounts attach directly to T-bar. **For non-accessible ceilings and off-grid T-bar installations, the graphic below indicates mount spacing for typical run lengths.**

4ft — 4'
8ft — 8'
12ft — 8' | 4'
16ft — 8' | 8'
20ft — 8' | 8' | 4'
24ft — 8' | 8' | 8'
28ft — 8' | 8' | 8' | 4'
32ft — 8' | 8' | 8' | 8'

Indicates nominal module length

Indicates variable mount at (can be located up to 3.5" on either side of joint end)

Note: Max length is 32'

Run Configurations

The tables below indicate how 4ft and 8ft modules can be combined to create continuous runs of various lengths.

Nominal Row Length	Number of Modules Required		Installed Row Length *(not including end caps)*
	4'	**8"**	
4'	1x		4' - 3/16"
8'		1x	8' - 3/8"
12'	1x	1x	12' - 9/16"
16'		2x	16' - 3/4
20'	1x	2x	20 - 15/16
24'		3x	24 1 - 1/16
28'	1x	3x	28 1 - 1/4
32'		4x	32 1 - 7/16
36'	1x	4x	36 1 - 5/8
40'		5x	40 1 - 13/16
44'	1x	5x	44 1
48'		6x	48 2 - 3/16

Nominal Row Length	Number of Modules Required		Installed Row Length *(not including end caps)*
	4'	**8"**	
52'	1x	6x	52 2 - 3/8
56'		7x	56 2 - 9/16
60'	1x	7x	60 2 - 11/16
64'		8x	64 2 - 7/8
68'	1x	8x	68 3 - 1/16
72'		9x	72 3 - 1/4
76'	1x	9x	76 3 - 7/16
80'		10x	80 3 - 5/8
84'	1x	10x	84 3 - 13/16
88'		11x	88 3
92'	1x	11x	92 4 - 3/16
96'		12x	96 4 - 3/8
100'	1x	12x	100 4 - 1/2

*Overall run lengths provided do not include endcaps. Add two endcaps to the overall length of each run.
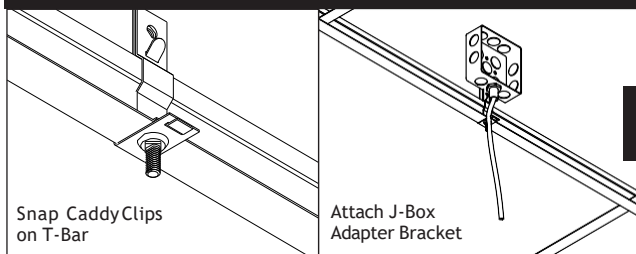
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1 **Prepare fixtures**

Arrange boxed fixtures on floor in specified mounting locations. Remove fixtures from boxes. Remove plastic from fixtures.
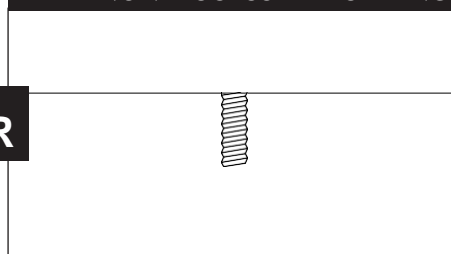
2A TBAR CEILING

Snap Caddy Clips on T-Bar

Attach J-Box Adapter Bracket

Snap caddy clips and 1/4-20 threaded bolts on T-bar at specified mounting locations (caddy clips and 1/4-20 threaded bolts supplied with mount kits). Tie-off caddy clips with guy wires (supplied by others) according to code.

POWER MOUNT LOCATIONS: Attach supplied J-box adapter bracket to caddy clip with nut and bolt. Tie-off adapter bracket with guy wires (supplied by others) according to code. On 4 x4 J-box (supplied by others), install coupler in center knockout. Attach J-box to caddy clip with nut and bolt.
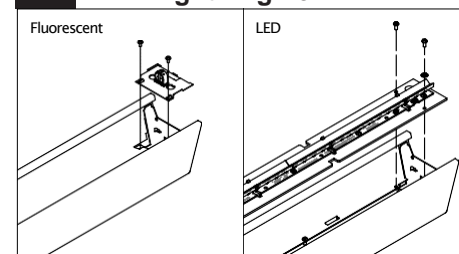
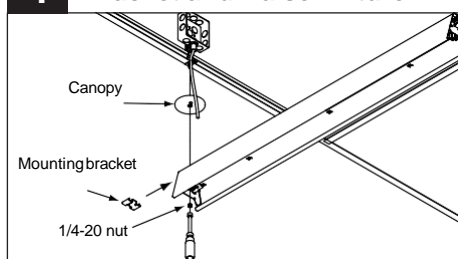Install supplied SVT cord.

2B NON-ACCESSIBLE CEILING

OR

For non-accessible ceilings install 1/4-20 stud extending 1/2 from ceiling.
(see Mount Spacing Diagram on Page 1).

3 **Remove Socket Saddle or LED Light Engine**
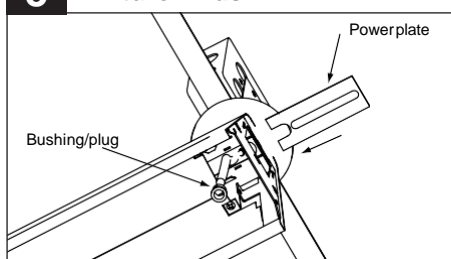
Fluorescent | LED

Remove socket saddle or LED light engine to gain access to mounting channel. When removing LED light engine be sure to disconnect the low voltage wire harness.

4 **Slide In End of Row Mounting Bracket and Raise Fixture**

Canopy

Mounting bracket

1/4-20 nut

Remove socket saddle or LED light engine to gain access to mounting channel. **When removing LED light engine be sure to disconnect the low voltage wire harness.**
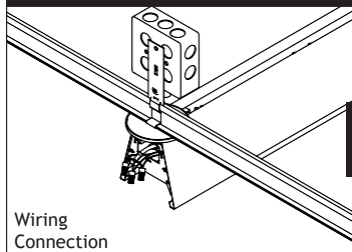
5 **Slide Power Plates into Fixture Ends**
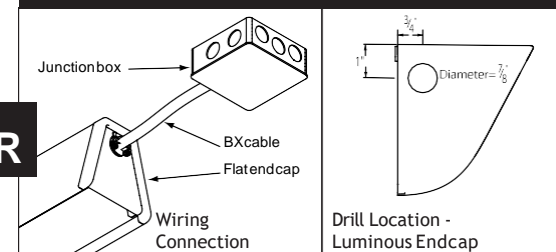
Power plate

Bushing/plug

Slide power plates into fixture ends. Slide the supplied bushings over the SVT cord and snap into the power plate. If it is a non power location plug the hole with supplied plug bushing.

Install supplied strain relief and feed the remaining SVT cord out the end of the fixture.

6A TBAR CEILING

Wiring Connection

OR

6B NON-ACCESSIBLE CEILING

Junction box

BX cable

Flat endcap

Wiring Connection

Drill Location - Luminous Endcap
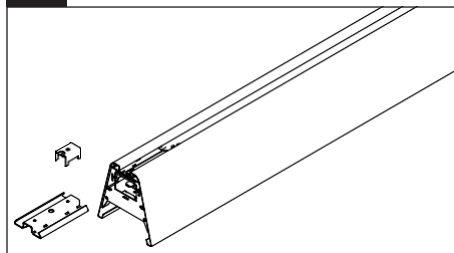
Diameter = 7/8

For non-accessible ceilings, drill 7/8 hole (location marked on Flat endcap: see diagram on right for drill location on Luminous endcap). Attach armored cable from the junction box (supplied by others) according to code.
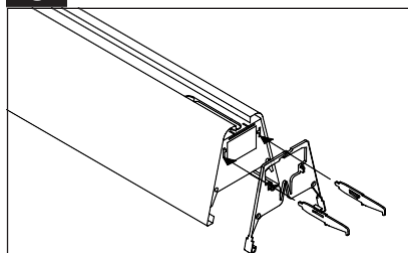
! **ATTENTION: Install in accordance with national and local building and electrical codes.**

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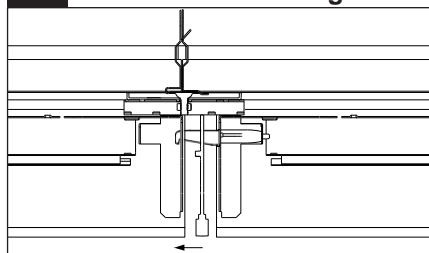
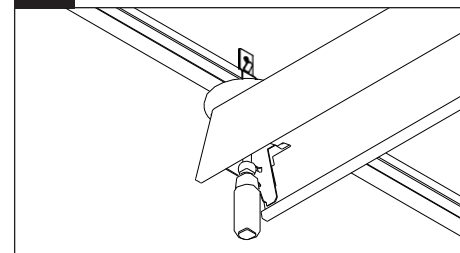**7** | **Slide Variable Mount Bracket**

8' | **Install Joiner Aligners**

On the floor, slide variable mount bracket into next fixture in run. Attach joiner-aligner brackets, power plate and plug into opposite side.

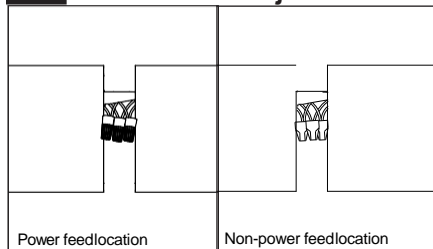**9** | **Raise Next Fixture and Insert the Joiner Aligners**

Raise next fixture to ceiling and insert the joiner aligners into the corresponding slots on the already installed fixture.

10 | **Install Fixture**

Using the supplied 1/4 -20 nuts attach the fixture to the ceiling through the slots in the top of the fixture. DO NOT FULLY TIGHTEN. The mount should be able to slide, but be snug.
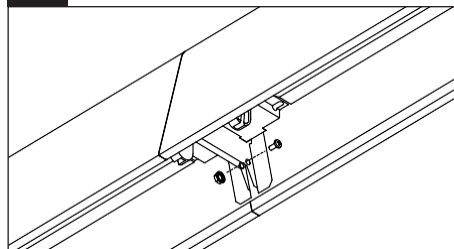
11 | **Complete electrical connections at joints**

Power feed location | Non-power feed location
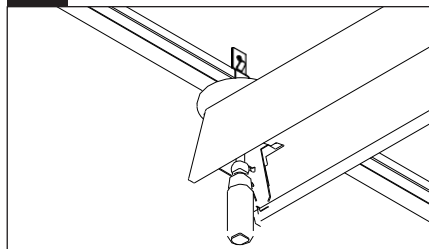
Complete power connections between fixtures.

Note: For electrical connections at fewer feed locations remove quick connects and use twist on wire (i.e., Wire-Nut or Marrette)
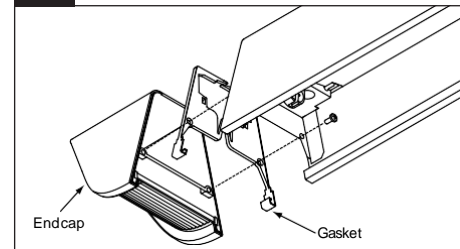
12 | **Secure joints**

Join fixtures using supplied #8 screws and lock-nuts.

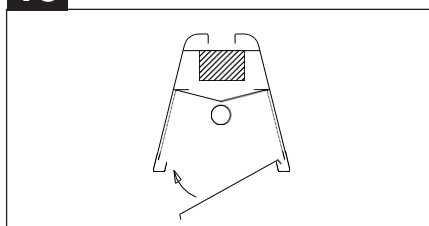**13** | **Tighten Mounting Bracket**

Tighten mounting bracket. Reinstall socket saddles or LED modules (remember to reconnect the low voltage wire harness). Install power plate and plug.

14 | **Install endcaps**

Endcap | Gasket

Snap on the gasket to the end of the fixture and attach end caps using supplied #8 screws.

15 | **Finishing**

Install lenses as shown.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interreference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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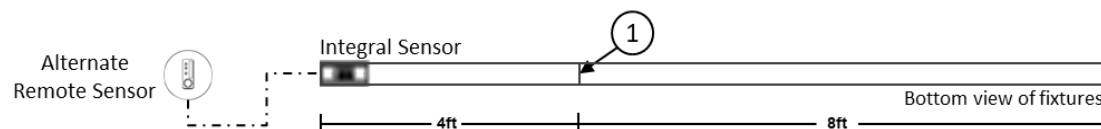
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Sensor in Rows

Single Sensor Controlling Whole Row

1. Purple & brown (or purple & grey/pink) control wires **MUST** be connected between fixtures.
Note :
- A maximum of 8 drivers can be wired to 8 sensors; confirm fixture driver count with factory.

Alternate Remote Sensor

Integral Sensor
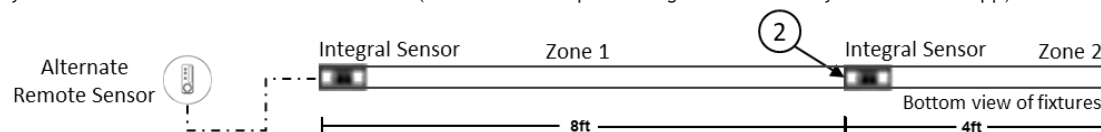
① Bottom view of fixtures

4ft   8ft

Multiple Sensors Controlling Separates Zones in a Row

2. Purple & brown (or purple & grey/pink) control wires **MUST NOT** be connected between zones.
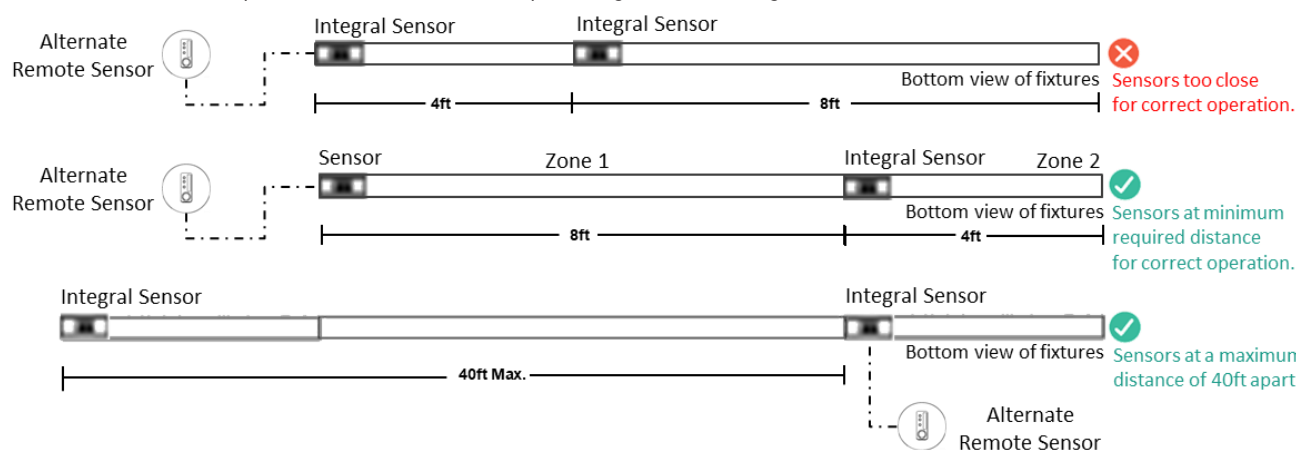Notes :
- A maximum of 8 drivers can be wired to one sensor; confirm fixture driver count with factory.
- Only one sensor is allowed on a wired zone. (Sensors can be paired together wirelessly via a mobile app).

Alternate Remote Sensor

Integral Sensor   Zone 1   ②   Integral Sensor   Zone 2

Bottom view of fixtures

8ft   4ft

Sensor Spacing

- For correct operation, sensor should be placed a minimum distance of 8ft apart.
- Wireless sensor should be placed no further than 40ft apart for good wireless signal connection.

Alternate Remote Sensor

Integral Sensor   Integral Sensor

Bottom view of fixtures   ❌ Sensors too close for correct operation.

4ft   8ft

Alternate Remote Sensor

Sensor   Zone 1   Integral Sensor   Zone 2

Bottom view of fixtures   ✅ Sensors at minimum required distance for correct operation.

8ft   4ft

Integral Sensor   Integral Sensor

Bottom view of fixtures   ✅ Sensors at a maximum distance of 40ft apart.

40ft Max.

Alternate Remote Sensor
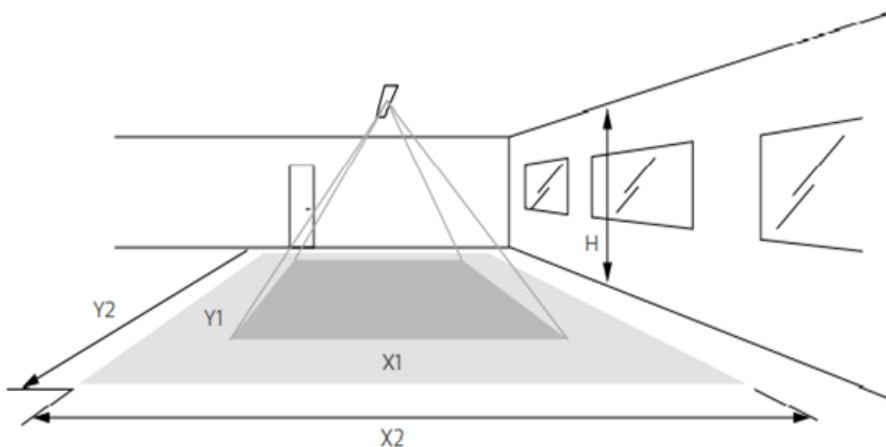
Important Consideration When Using Sensor in a Row

- For fixtures with wireless sensors (CS, SB or RA options): **DO NOT** connect fixture purple and brown (or purple & grey/pink) control wires to an external dimming switch. Fixture mains wiring should not be connected to a circuit with an external on/off switch.

- For best aesthetic condition, place sensors at ends of row only so as not to break the continuous lens.

- For better occupancy coverage in longer rows, sensors may be placed mid run, but keep in mind this will break the continuous lens into discrete sections. Alternatively, remote sensors may be used, note the same wiring rules will apply.

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Occupancy Sensor Coverage:

Note: Longer dimension of detection area (Y1, Y2) is parallel to longer dimension of the luminaire.

Height	Minor movement		Major movement	
h	**X1**	**Y1**	**X2**	**Y2**
2.4 m (7.9 ft)	1.9 m (6.2 ft)	2.9 m (9.5 ft)	2.9 m (9.5 ft)	4.3 m (14.1 ft)
3 m (9.8 ft)	2.4 m (7.9 ft)	3.6 m (11.8 ft)	3.6 m (11.8 ft)	5.4 m (17.7 ft)

The detection area for the movement sensor can be roughly divided into two parts;

- Minor movements (person moving = 3ft/s or 0.9m/s).

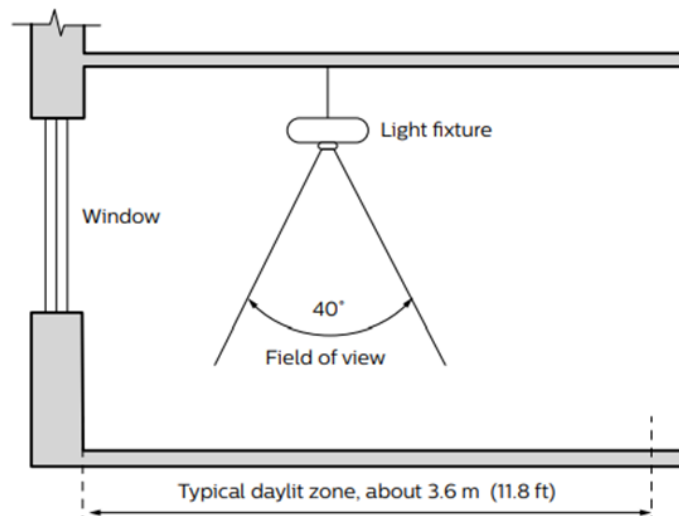- Major movements (person moving = 3ft/s or 0.9m/s).

Daylight Sensor

The light sensor measures the total amount of light in a circular field of approximately 80% of the PIR detection area. The following aspects should be observed during installation:

- Minimum distance from the window = 2ft (0.6m).

- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car hood) as this will lead to incorrect light regulation.

As a guideline the formula $0.72 \times H$ can be used to calculate the minimum distance between the window and sensor whereby H is the height from the bottom of the window to the sensor.

Photosensor spatial response

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