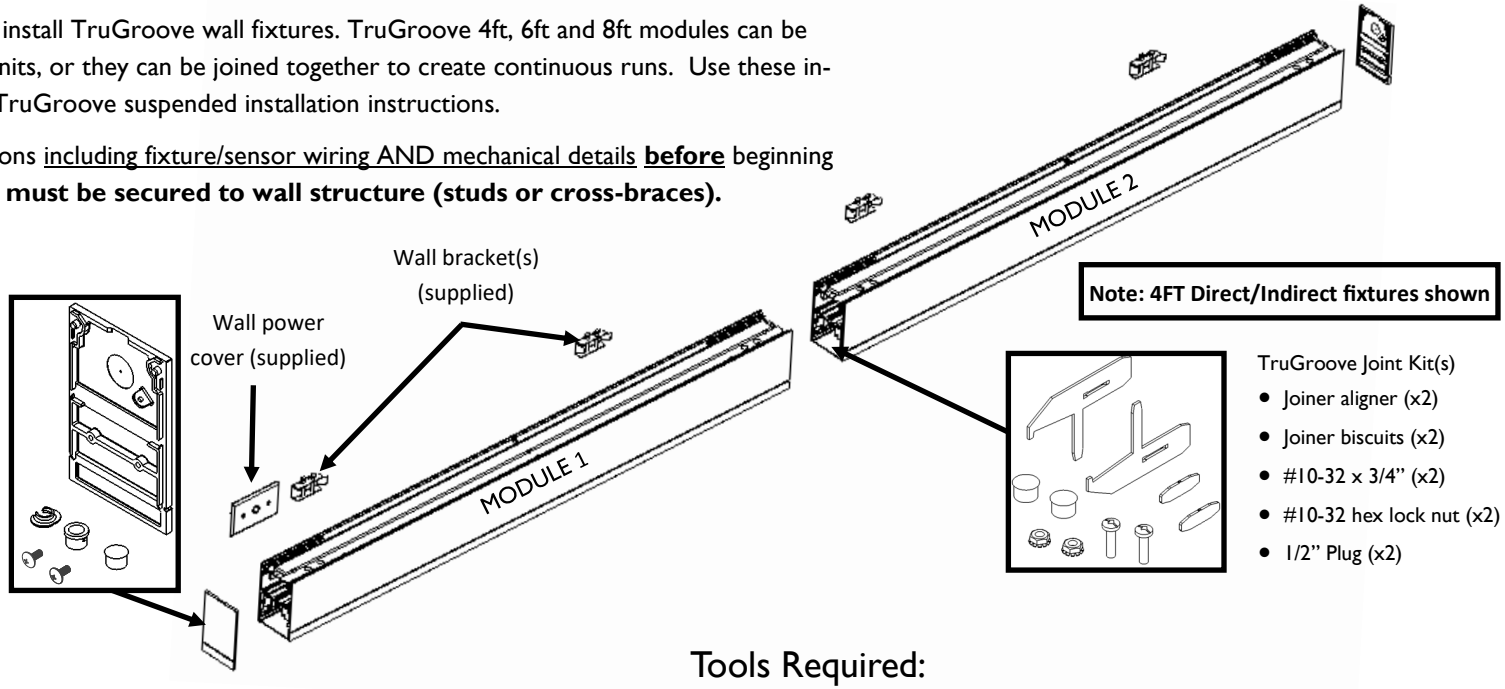
System Overview

These instructions review how to install TruGroove wall fixtures. TruGroove 4ft, 6ft and 8ft modules can be installed as individual standalone units, or they can be joined together to create continuous runs. Use these instructions in addition to supplied TruGroove suspended installation instructions.

IMPORTANT: Read all instructions <u>including fixture/sensor wiring AND mechanical details</u> **<u>before</u>** beginning installation. **All mount brackets must be secured to wall structure (studs or cross-braces).**

TruGroove Endcap Kit(s)

- TG D/I endcap (x1)
- #8-32 x 3/8" screws (x2)
- Cable strain relief (x1) (Heyco #7418)
- 1/2" Bushing (x1)
- 1/2" Plug (x1)

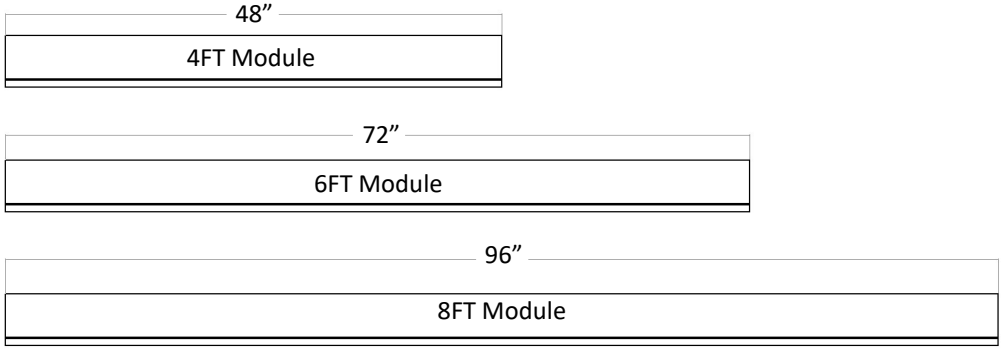


TruGroove Joint Kit(s)

- Joiner aligner (x2)
- Joiner biscuits (x2)
- #10-32 x 3/4" (x2)
- #10-32 hex lock nut (x2)
- 1/2" Plug (x2)

Module Lengths

TruGroove wall fixtures come in 4ft, 6ft and 8ft modules. Overall module lengths are shown below. Add 0.2" for each endcap for accurate run length.

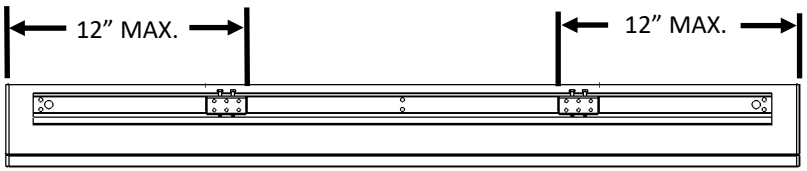


Tools Required:

See supplied suspended TruGroove installation instructions for tools required.

Mount Spacing

TruGroove wall fixture modules are designed to attach to supplied wall brackets. **Important:** Use 2 brackets for each 4ft module and 3 brackets for each 6ft and 8ft module.

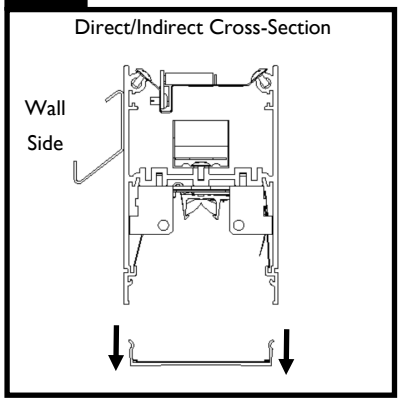


Wall brackets must be installed a maximum 12" away from fixture ends.

! ATTENTION: Install in accordance with national and local building and electrical codes.

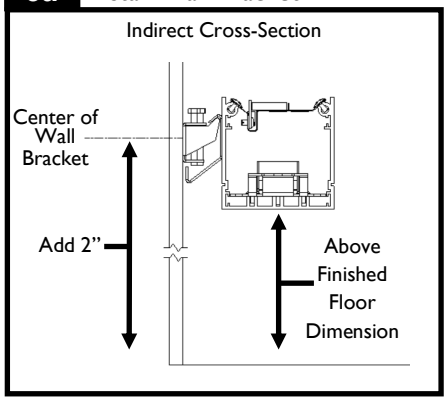
1 Arrange boxed fixture on floor in specified mounting location, remove fixtures from boxes.

2 Lens Removal



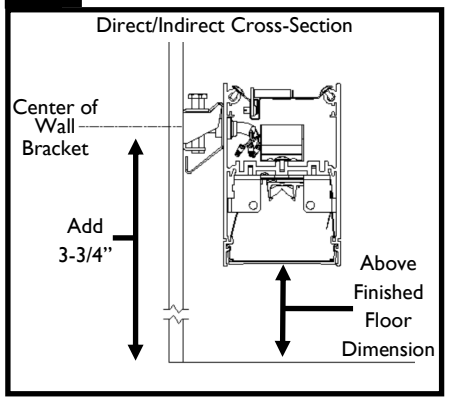
Remove lens from fixture and set aside until fixture installation is complete. Use cotton gloves to handle lenses and keep in a clean environment.

3a Install Wall Bracket



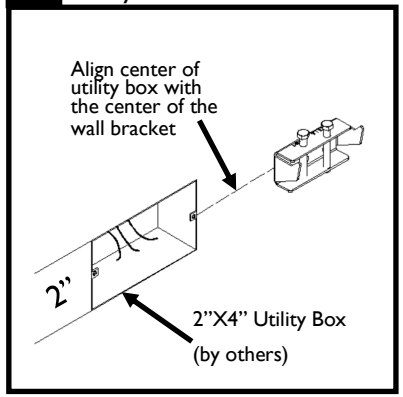
Determine above finished floor dimension and add 2” for indirect configuration. Draw center line, level and center wall brackets. Install to structure using appropriate hardware (by others).

3b Install Wall Bracket



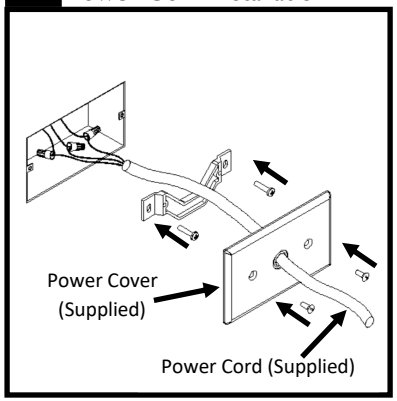
Determine above finished floor dimension and add 3-3/4” for direct/indirect configuration. Draw center line, level and center wall brackets. Install to structure using appropriate hardware (by others).

4 Utility Box Installation



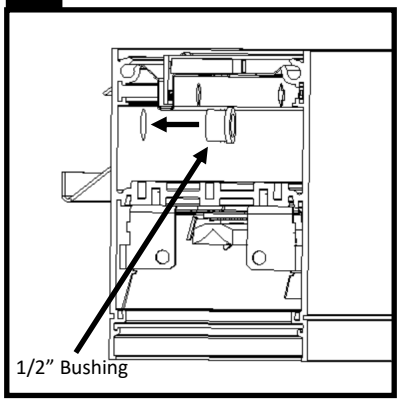
Determine power location for 2”X4” utility box (by others). Prior to installation, ensure center of utility box is centered on wall bracket center line as shown. Recommended position of utility box is 6” to 8” away from fixture end.

5 Power Cord Installation



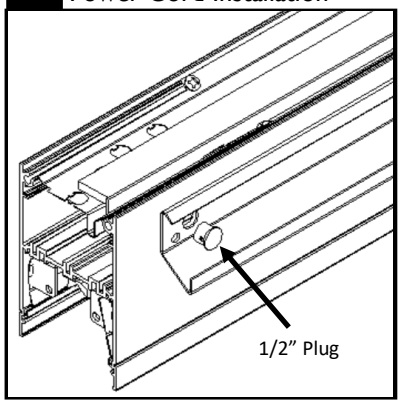
Complete wall power connections and attach supplied power cord through power cover. Attach cover to utility box.

6 Power Cord Installation



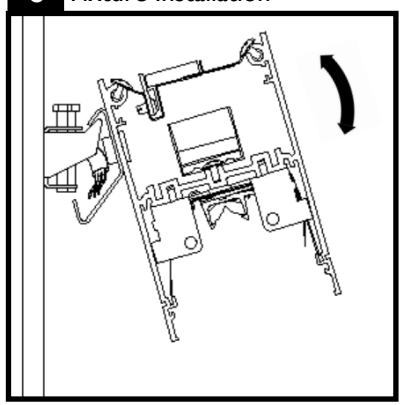
Determine power feed location on fixture. Attach supplied ½” bushing as shown.

7 Power Cord Installation



Install supplied ½” plug at opposite end of fixture housing.

8 Fixture Installation



Hook fixture housing on top of wall bracket and gently rotate downwards while supporting housing. Housing should engage on all wall brackets and lock in position.

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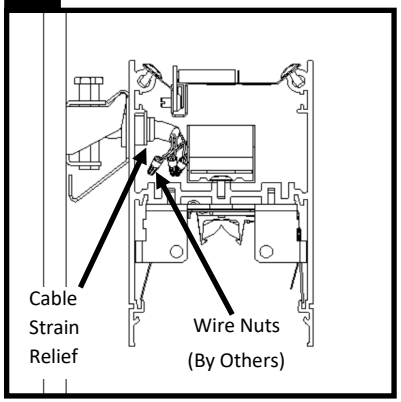
9 Power Cord Installation



Feed power cord through ½" bushing installed in step 6. Crimp supplied cable strain relief to secure power cord inside fixture housing. Use Heyco PN0019(R12) crimping tool to ensure proper installation.

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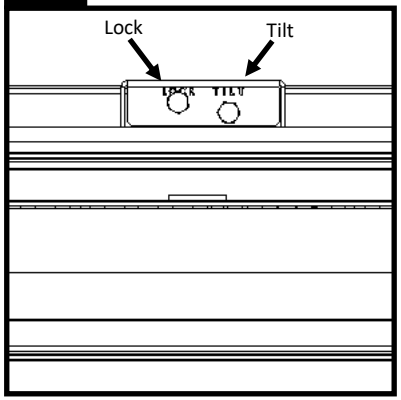


After module 1 is installed, adjust the tilt screw as required to level fixture.

11 Fixture Joining

- To join fixtures, follow attached TruGroove suspended installation instructions. For direct/indirect fixtures, refer to step 8 of supplied direct/indirect installation instructions.
- For indirect fixtures, refer to step 7 of supplied indirect installation instructions.

12 Endcap Attachment

- To attach endcaps, follow attached TruGroove suspended installation instructions. For direct/indirect fixtures, refer to step 13 of supplied direct/indirect installation instructions.
- For indirect fixtures, refer to step 16 of supplied indirect installation instructions.

13 Finishing

- Ensure all fixtures are level and in line with each other.
- If horizontal leveling is required, adjust tilt screw shown in step 10, level fixture and re-tighten screw.
- Check that all joint or endcap screws are installed and all seams are tight.
- Use spare 1/2" plug(s) provided to close any open 1/2" electrical knockout location(s) in top reflector.
- Lock wall bracket screws shown in step 10 to secure fixtures to wall brackets.
- Install lenses (if applicable).

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.

! ATTENTION: Install in accordance with national and local building and electrical codes.

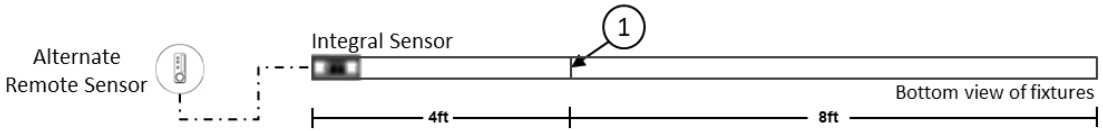
Sensor in Rows

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.

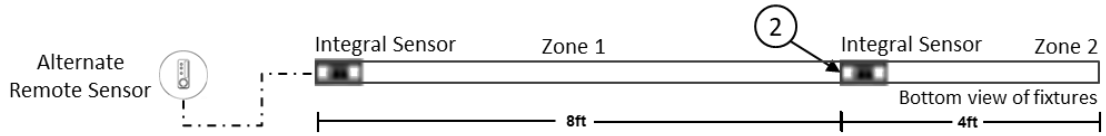


Multiple Sensors Controlling Separates Zones in a Row

2. Purple & brown (or purple & grey/pink) control wires **MUST NOT** be connected between zones.

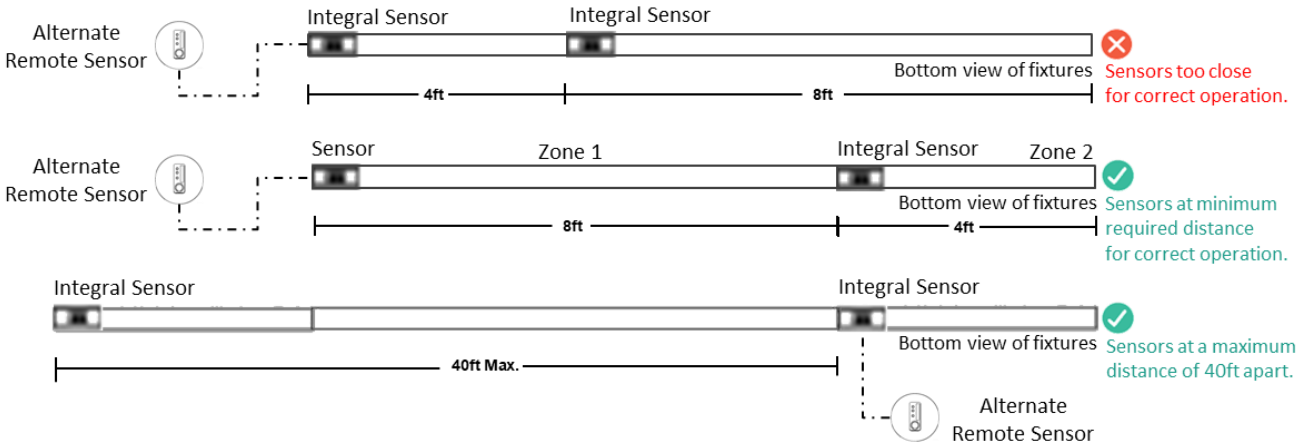
Notes :

- 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).



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.



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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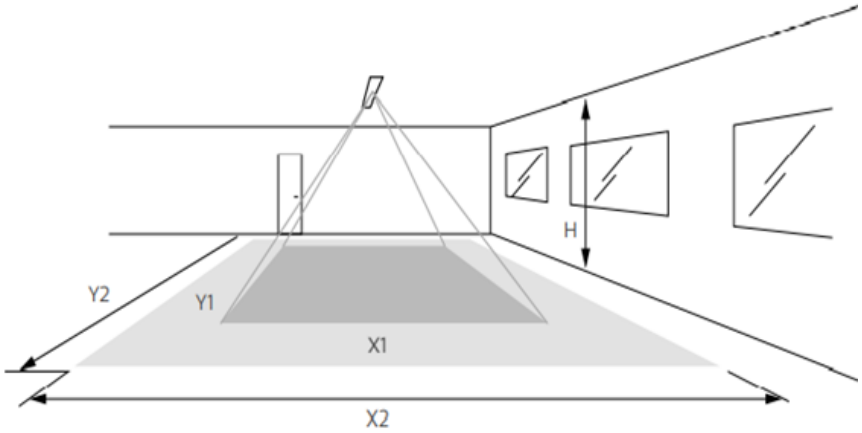
Occupancy Sensor Coverage:

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).

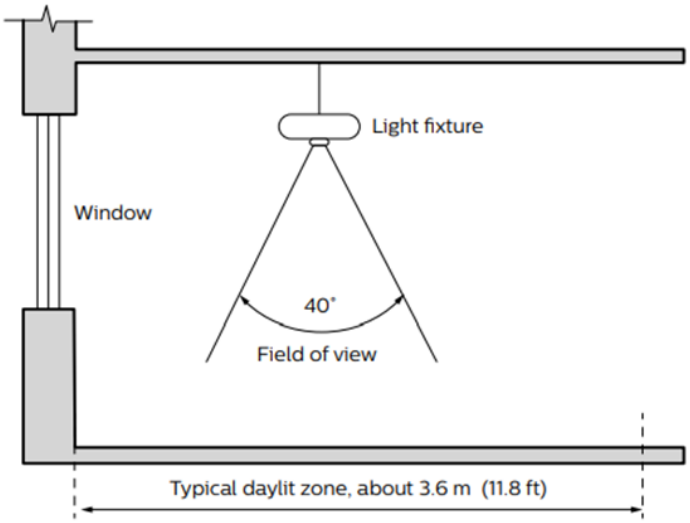
Daylight Sensor

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 X 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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Revision E November 13, 2023