#### Installation Instructions

# **Direct/Indirect and Direct**



Suspended

ID\_TruGroove\_Suspended\_Direct\_Indirect

Standalone or continuous run configurations

by (signify

#### System Overview

These instructions review how to install TruGroove suspended fixtures. TruGroove 4ft, 6ft and 8ft modules can be installed as individual standalone units, or they can be joined together to create continuous runs. The graphics below show the components required to install a typical run of TruGroove suspended fixtures. **IMPORTANT: Read all instructions before beginning installation.** 



Mounts are adjustable to within 5" of module end(s).

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Suspended

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ID TruGroove Suspended Direct Indirect

### Direct/Indirect and Direct



Standalone or continuous run configurations

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Arrange boxed fixture on floor in specified mounting location, remove fixtures from boxes. Install all ceiling mounting components and vertical aircraft cables using separate installation instruction for Aircraft Cable Mounting (supplied).





Remove lens from fixture and set aside until fixture installation is complete. Use cotton gloves to handle lenses and keep in a clean environment. **Note:** Do not mix symmetric fixture lenses with asymmetric fixture types as they are different.



With module 1 on the ground, slide sling cable assembly into top fixture screw chase on both ends of the fixture.



Attach #8 sheet metal screws to secure sling cable assemblies to housing during assembly process.



Raise fixture to installed level and insert vertical aircraft cable inside sling cable assembly. Ensure end of aircraft cable exits from sling cable assembly as shown.



Determine power feed location and open 1/2" electrical knockout at required end. Install 1/2" bushing from inside fixture as shown. Feed power cord from above into fixture wiring cavity.



Install and crimp provided cable metal strain relief bushing to secure power cord below fixture reflector. Use the Heyco PN0019(R12) crimping tool to ensure proper installation. If installing a standalone fixture, skip to step 13. Joiner Biscuits Nodule 2 Joiner Aligners Bracket

8 Fixture Joining

With module 2 on the ground, tap biscuit aligners inside top screw chase. Ensure biscuit aligners are inserted more than half way inside fixture housing. Insert joiner aligners inside lower screw chase as shown. Ensure orientation is correct for locking tab to engage and lock inside fixture bracket.

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Suspended

# Installation Instructions

 $ID\_TruGroove\_Suspended\_Direct\_Indirect$ 

# 9 Fixture Joining

Raise module 2 to installed module 1 position.



Slide endcap onto end of fixture module and secure from below using two #8-32 X 5/16" screws. Ensure excess aircraft cable does not interfere with endcap attachment. Tighten screws until endcap seam is tight. **Note: Do not overtighten.** 



Bring modules together and engage joiner aligners in module 2 on fixture bracket in module 1. With fixtures modules supporting each other, complete wiring connections between modules.

14 Corner Installation



If a corner is required, it is recommended the 2'X2' corner module be installed first. All corners come with a factory installed cable sling assembly in the middle. Refer to supplied corner run layout drawings and figures 15a, 15b and 15c for correct locations and corner orientation.



Direct/Indirect and Direct

Ensure all connections are secure and all wires are neatly tucked inside fixture wiring cavity. Slide fixture modules together gently.



Graphic above shows a symmetric corner cross-section. Refer to supplied layout drawings for mounting locations.

# 12 Fixture Joining #10-32 Nut #10-32 Screw

Secure fixture modules together using the two #10-32 machine screws and the two #10-32 nuts supplied. Tighten until joint seam is tight. **Note: Do not overtighten.** 



Graphic above shows the direct/indirect inside asymmetric corner crosssection. This corner directs all lower light toward the inside of the corner. Refer to supplied layout drawings for required corner orientation (direction of light) and mounting locations.

Page 3

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# Installation Instructions

16

**Corner Installation** 

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attach endcaps.

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# Direct/Indirect and Direct

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Standalone or continuous run configurations

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Graphic above shows the outside asymmetric corner crosssection. This corner directs all lower light toward the outside of the corner. Refer to supplied layout drawings for required corner orientation (direction of light) and mounting locations.

#### **18** Finishing

•Ensure all fixtures and corners are level and in line with each other.

•For on-grid mounting or as required, remove locking screws installed in step 4 to bring vertical aircraft cable to level.

•Trim excess vertical aircraft cable installed in step 5.

• If horizontal leveling is required, loosen adjustment screw shown in step 5, level fixture and re-tighten screw.

•Check that all joint or endcap screws are installed and all seams are tight.

•Use spare I/2" plug(s) provided to close any open I/2" electrical knockout location(s) in top reflector.

# 19 Fixture Lens Installation

To install a corner module, begin at step 3 of

Follow the rest of the steps as required to attach power feed, join additional fixtures or

Install lenses removed in step I by snapping inside extrusion housing. Installation Tip: For easier installation, start at a housing end or a joint by squeezing lens in slightly from both sides and guiding inside housing.



If installing a square or rectangular closed pattern, it is recommended to install opposite U-shaped fixture/corner patterns first and complete the installation by bringing U-shaped sections together as shown.



In continuous runs requiring corners, refer to supplied layout drawings for lens type required and lens location. Note: Corner run lenses ship separately and are specifically made for corner configurations. Installation Tip: For easier installation of corner lenses, start at the corner and work outward to complete the run.

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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Page 4

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Suspended

ID\_TruGroove\_Suspended\_Direct\_Indirect

# Direct/Indirect and Direct



Standalone or continuous run configurations

by (Signify

Page 5

#### **Sensor in Rows**

#### Single Sensor Controlling Whole Row

I. 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.



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#### Important Consideration When Using Sensor in a Row

- For fixtures with wireless sensors (CS, SB or RA options):
  <u>DO NOT</u> 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.



#### 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.

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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).

#### Photosensor spatial response



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