

System Overview

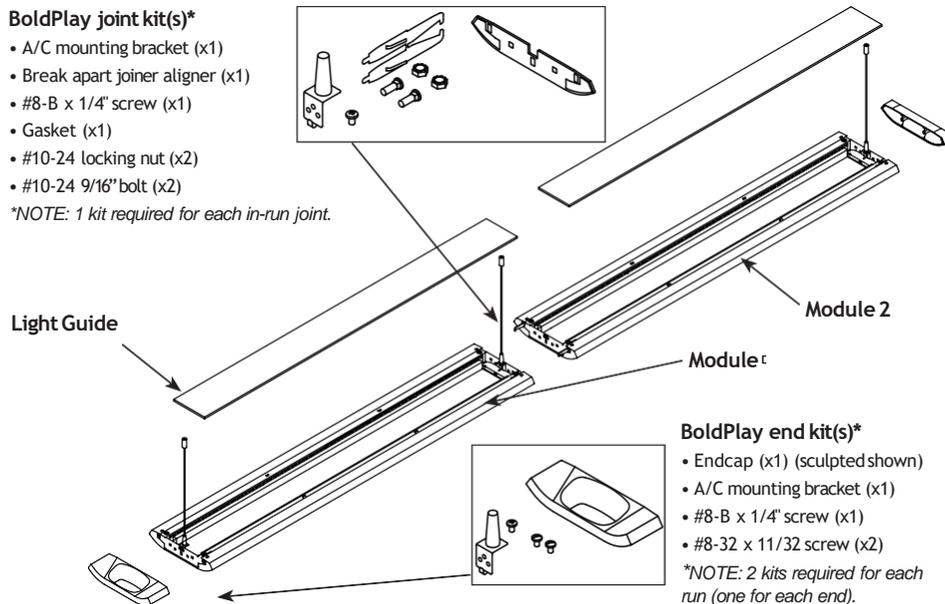
These instructions review how to install BoldPlay suspended fixtures. BoldPlay 4ft and 8ft modules can be installed as individual standalone units, or they can be joined together to create continuous runs. The graphic below shows the components required to install a typical run of BoldPlay suspended fixtures.

IMPORTANT: Read all instructions including fixture/sensor wiring AND mechanical details before beginning installation.

BoldPlay joint kit(s)*

- A/C mounting bracket (x1)
- Break apart joiner aligner (x1)
- #8-B x 1/4" screw (x1)
- Gasket (x1)
- #10-24 locking nut (x2)
- #10-24 9/16" bolt (x2)

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



BoldPlay end kit(s)*

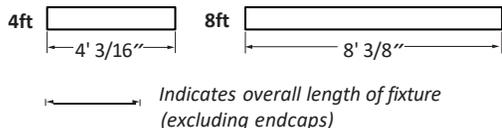
- Endcap (x1) (sculpted shown)
- A/C mounting bracket (x1)
- #8-B x 1/4" screw (x1)
- #8-32 x 11/32 screw (x2)

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

TOOLS REQUIRED: Phillips screwdriver, 3/8" nut driver and flat or #2 Robertson screwdriver.

Module Lengths

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



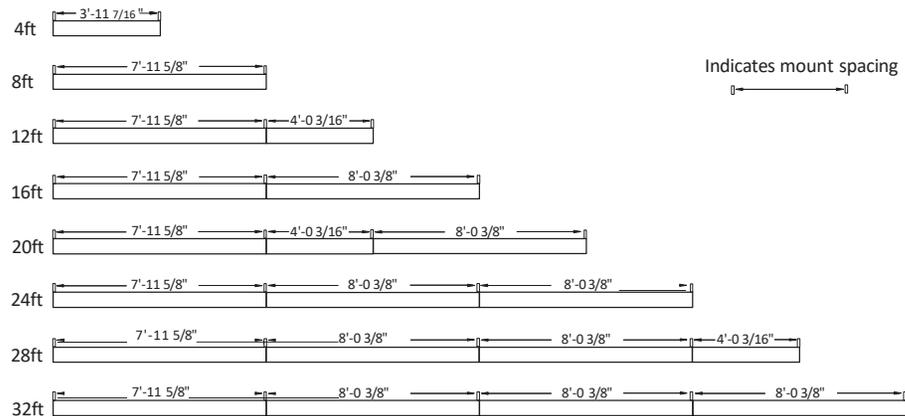
Endcaps

Add two endcaps to the length of each run.



Mount Spacing

For on-grid T-bar ceiling installations, mounts attach directly to Tee. For non-accessible ceilings and off-grid T-bar installations, the graphic below indicates mount spacing for typical row lengths. Mounting options are also available for a wide variety of other ceiling types. See Suspended Mounting Options document for more detailed information.



Row Configurations

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

Nominal row length	4ft module	8ft module	Nominal row length	4ft module	8ft module
4'	1x		56"		7x
8'		1x	6'0"	1x	7x
12'	1x	1x	6'4"		8x
16"		2x	6'8"	1x	8x
20'	1x	2x	72'		9x
24'		3x	76"	1x	9x
28'	1x	3x	80'		10x
32'		4x	84'	1x	10x
36"	1x	4x	88'		11x
40'		5x	92'	1x	11x
44'	1x	5x	96"		12x
48'		6"x	100'	1x	12x
52'	1x	6"x			

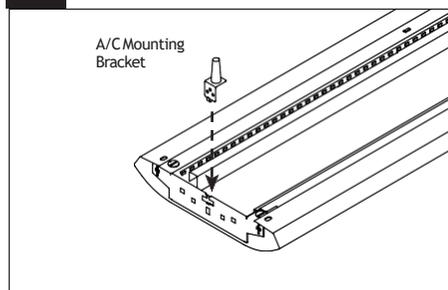
*Overall row lengths provided do not include endcaps. Add two endcaps to the overall length of each row.

1 Prepare fixtures /install ceiling mounting components

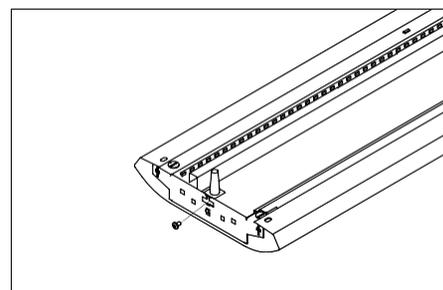
Arrange boxed fixtures on floor in specified mounting locations; remove fixtures from boxes. Install all ceiling mounting components and vertical aircraft cables using separate installation instructions for Aircraft Cable Mounting (supplied).

NOTE: If conditions are dusty/dirty, recommended practice is to leave fixtures in their plastic bags. Cut small holes in the bag as needed to complete the following installation sequence, and then completely remove the bag from the fixture when conditions are clean. This prevents dust and dirt build-up on the fixtures.

2 Install end-of-row aircraft cable brackets



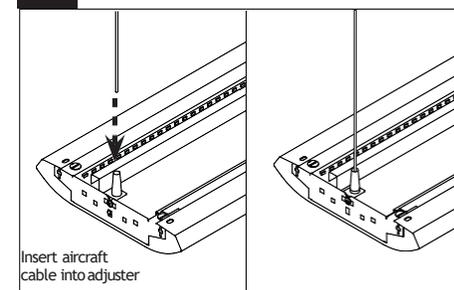
A. Hook A/C mounting bracket to endplate as shown. Raise bracket until security tab is engaged.



B. Attach bracket to fixture using supplied fastener.

NOTE: When installing individual modules, and the first fixture of a row, complete step 2 on both ends of fixture.

3 Suspend & level first fixture



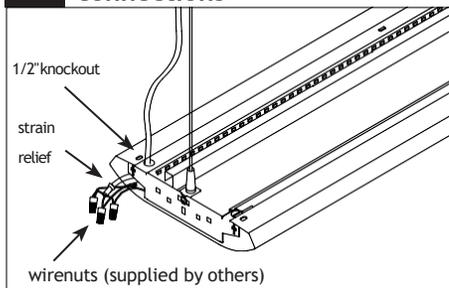
Insert aircraft cable into adjuster

With 2 people, raise the first fixture to the ceiling. At each end of the module, insert aircraft cable through aircraft cable adjuster (located on A/C mount bracket). The adjuster will automatically grip and hold the cable. **IMPORTANT:** Do not force cable into adjuster. See instruction A (next page) for details.

Trim aircraft cable below adjuster as per instruction A (next page).

Level the fixture (see instruction B & C on next page).

4 Complete electrical connections

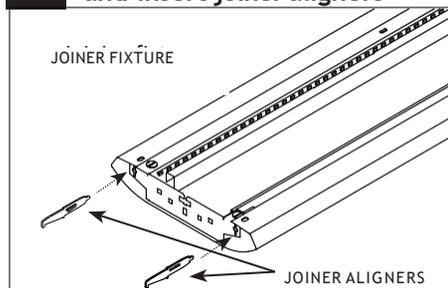


NON-POWER LOCATIONS: Cap all wires and tuck into wire cavity.

POWER LOCATIONS: Remove required 1/2" round knockout(s). Insert power cord and apply strain relief below the socket saddle to secure cord. Remove installed quick-wire connectors (if applicable) at power feed locations and complete electrical connections using wire nuts (supplied by others). Tuck wires into wire cavity.

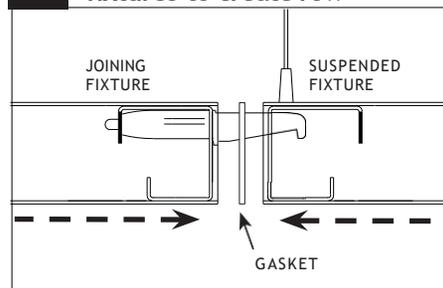
NOTE: Use smallest appropriate wire nuts. NOTE 2: Power feed connections can also be completed at joint locations.

5 Install in-row mount brackets and insert joiner aligners



For each additional fixture in the row, at the end furthest from the existing suspended fixture, attach A/C mounting bracket to fixture using supplied fasteners (see step 2). At the end closest to the existing suspended fixture, insert joiner aligners into crossplate (aligners will lock into place).

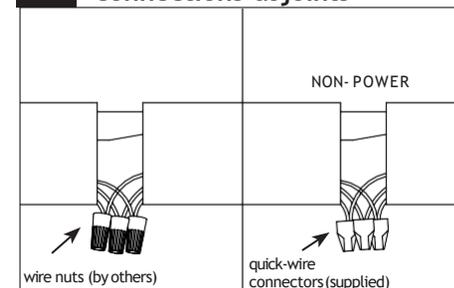
6 Suspend and join additional fixtures to create row



With two people, raise second fixture to ceiling. At joint, insert joiner aligners through black gasket and into suspended fixture. At other end (opposite joint), insert aircraft cable through adjuster.

IMPORTANT: Do not attempt to join fixtures on floor. Instead, hang one fixture at a time and join modules at ceiling level.

7 Complete electrical connections at joints



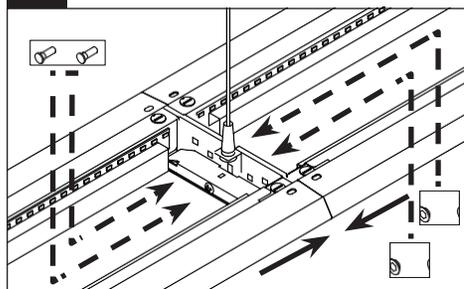
Complete in-row electrical connections.

NON-POWER LOCATIONS: Use supplied quick-wire connectors. Tuck wires into wire cavity.

POWER LOCATIONS: Remove installed quick-wire connectors and complete electrical connections using wire nuts (supplied by others). Tuck wires into wiring cavity.

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

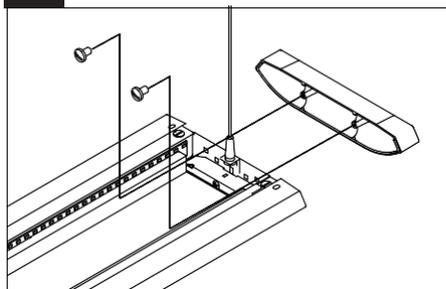
8 Secure joints



SLIDE MODULES TOGETHER: Secure joint from above using supplied nut and bolt hardware.

Repeat STEPS 5-8 for each additional fixture in row.

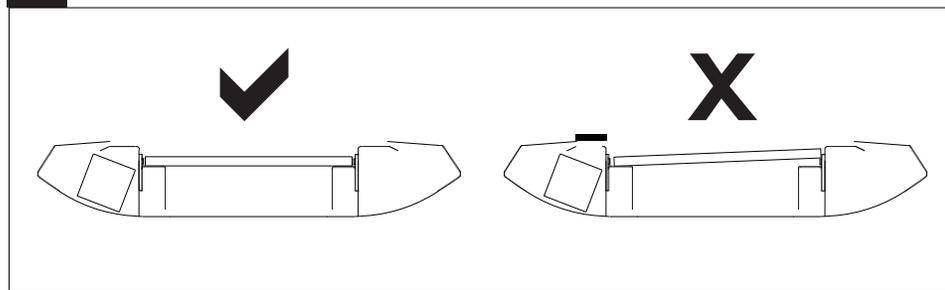
9 Install endcaps



Attach end caps using supplied #8 screws.

IMPORTANT: Do not over-tighten endcap fasteners. Philips Ledalite recommends tightening fasteners by hand. When screwhead is flush with crossplate, turn an additional full turn.

10 Install light guide



Identify smooth side of the Light Guide and ensure it is installed smooth side DOWN. Install Light Guide panel into LED fixture after joining and wiring is complete. Ensure panel is seated correctly as shown above.

A Aircraft cable adjustment

IMPORTANT: Do not force cable into adjuster. To insert cable into adjuster, follow the steps below.

1. CUT

If required, cut cable ends cleanly prior to inserting into adjuster. Recommended cutters: K.K. Porter cable cutter cat. No. 06'90TN or Klein all purpose shears cat. No. 1104.

2. INSERT

Carefully insert cable into tapered end. If cable does not insert easily or becomes jammed during insertion, use the release tool to remove cable.

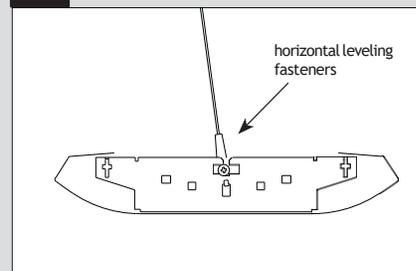
Trim end and repeat process. **DO NOT BEND CABLE BELOW BOTTOM OF ADJUSTER.**

3. TEST

Once cable is inserted, apply a 25lb point load to each mount bracket to ensure all connections are secure.

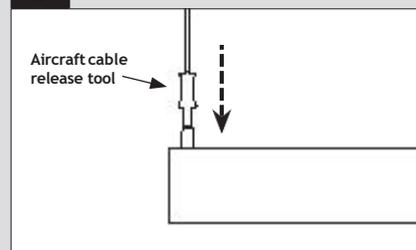
NOTE: Ensure fixture is level end-to-end. Support fixture from below and use supplied aircraft cable release tool to make fine height adjustments.

B Level horizontally



LEVEL HORIZONTALLY (shown above): Loosen fasteners on bottom of adjuster and level as required. Tighten fastener once fixture is in level position.

C Level vertically



LEVEL VERTICALLY (shown above): Support fixture from below and use supplied aircraft cable release tool to make fine height adjustments (see instruction A for details).

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 interference 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.

For circuit sizing, refer to commissioned & uncommissioned ratings on product power label /specification sheet.

Note: Tunable White luminaires must be commissioned with a Philips Dynalite control system to enable tunable functionality.

! 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.



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.

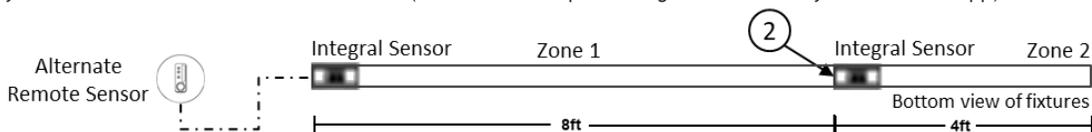
Multiple Sensors Controlling Separates Zones in a Row

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.

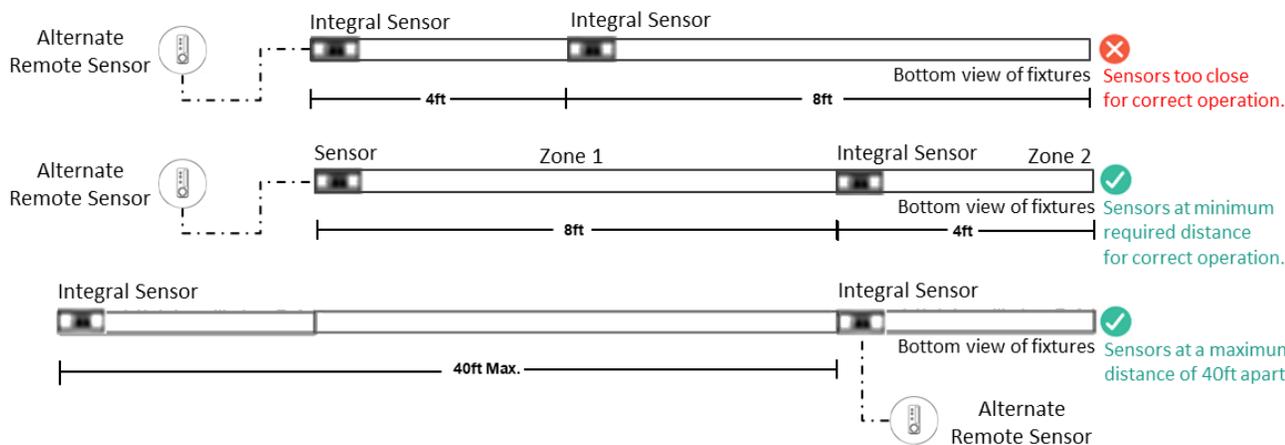
- Only one sensor is allowed on a wired zone. (Sensors can be paired together wirelessly via a mobile app).



Sensor Spacing

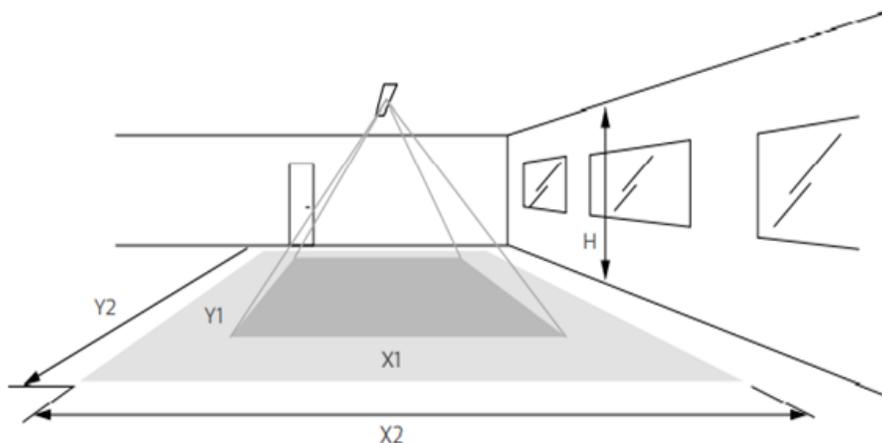
- For correct operation, sensor should be placed a minimum distance of 8ft apart.

- Wireless sensor should be placed no further than 40ft apart for good wireless signal connection.



Occupancy Sensor Coverage:

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



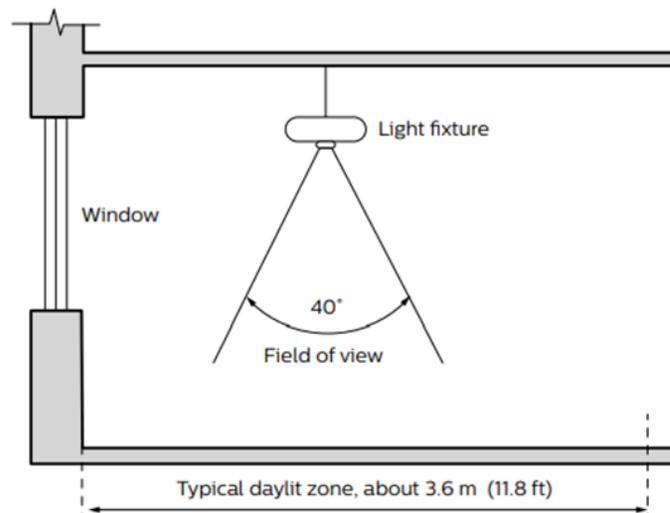
Daylight Sensor

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 $0.72 \times H$ 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



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).