

Installation Instructions - Element/Loft/Minigator/Vertechs/i2 WaveStream LED Suspended

WARNING

Before starting any work ensure that all sources of power are turned OFF. All work must meet local/national electrical codes and be performed by a certified electrician.

WARNING

This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved. Cooper Lighting Solutions assumes no responsibility for claims brought about by improper or careless installation or handling of this product.

CAUTION

Risk of Fire and Electric Shock. If not qualified, consult an electrician.

CAUTION

Edges may cut. Handle with care.

NOTICE: Green ground screw provided in proper location. Do not relocate.

NOTICE: If supply wires are located within 3 inches of ballast/driver, use wire rated for at least 90°C (194°F).

NOTE: Not all options available. Please consult your Cooper Lighting Solutions Representative for availability. Specifications and Dimensions subject to change without notice.

IMPORTANT: Read carefully before installing fixture. Retain for future reference.

ATTENTION - Receiving department: Note actual fixture description of any shortage or noticeable damage on delivery receipt. File claim for common carrier (LTL) directly with carrier. Claims for concealed damage must be filed within 15 days of delivery. All damaged material, complete with original packing must be retained.

INSTALLATION

The Following Instructions are to be used for the Following Products:

- Element Suspended (E2 LED)
- Loft Suspended (L2 LED)
- Minigator Suspended (MB LED)
- Vertechs Suspended (VB LED)
- i2 Suspended (i2 LED)

Remove Fixture From Packaging

1. Using Clean work gloves, carefully slide fixture out of packaging materials.

Remove LED Light Engine



CAUTION

Plastic protective film must remain on LED Light Engine until construction debris is no longer present.

1. The LED Light Engine(s) must be removed prior to installation. Use flat head screw driver if necessary on both ends. (Figure 1.)
2. Unclip the connectors on both ends of each LED light engine. (Figure 2.)
3. Place Light Engine in a safe place and follow the installation instructions to install the fixture from the ceiling. Do not place Light Engine on the fixture or hang off the side during installation.

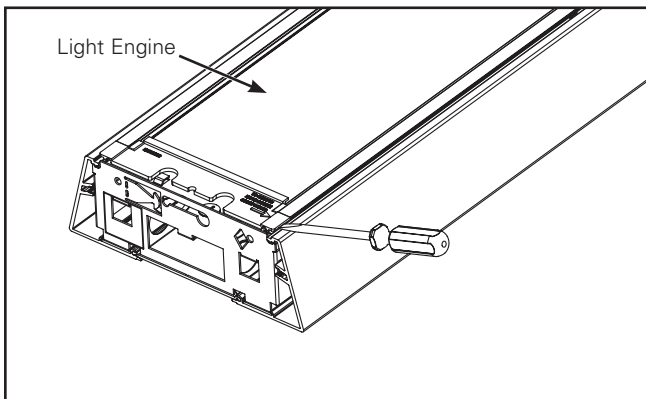


Figure 1.

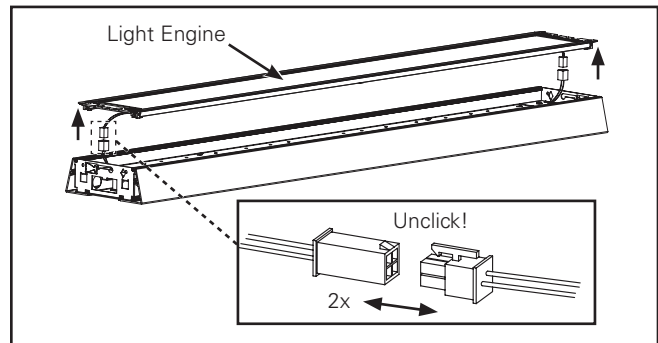


Figure 2.

Installing Aircraft Cables

1. Slide clip into slot of end bracket and secure adjuster to clip. Tighten screw leaving enough gap in the clip to slide back and forth. Insert aircraft cable into adjuster to desired length. Press down on adjuster to release cable. Repeat on opposite end. (Figure 3.)



CAUTION

If cutting aircraft cable, ensure that at least 3 inches of additional length is exiting the cable adjuster. Aircraft cable may fray and decrease cable strength.

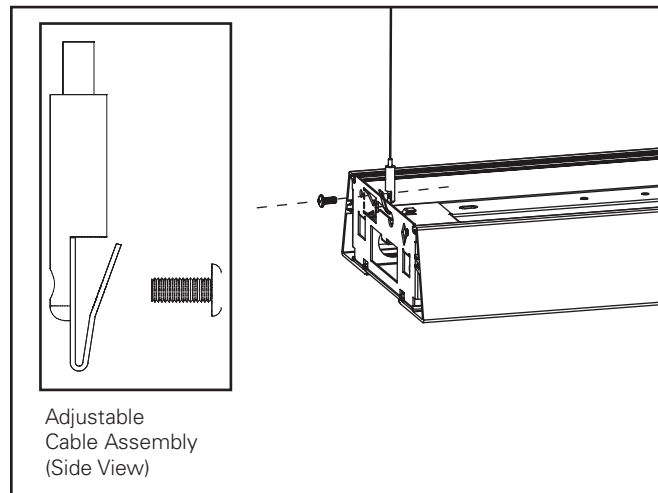


Figure 3.

Power Drops

1. Break off appropriate KO, slide power cord through KO opening, then secure power cord with strain relief. (Figure 4.)

Note: Location of the KO's varies depending on fixture.

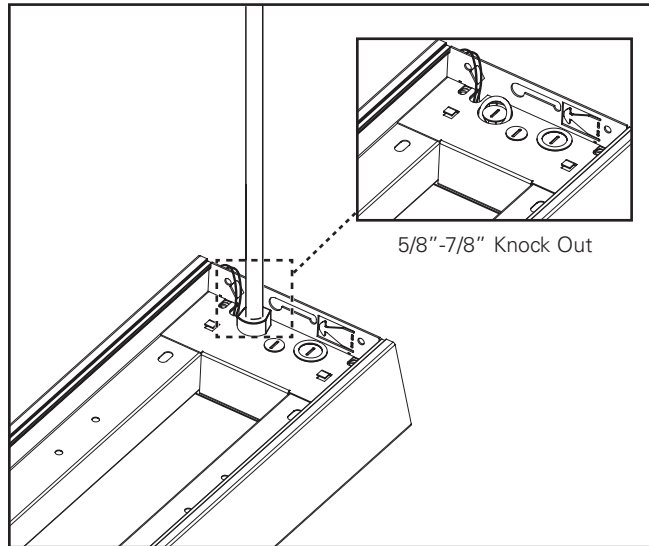


Figure 4.

Mount Spacing

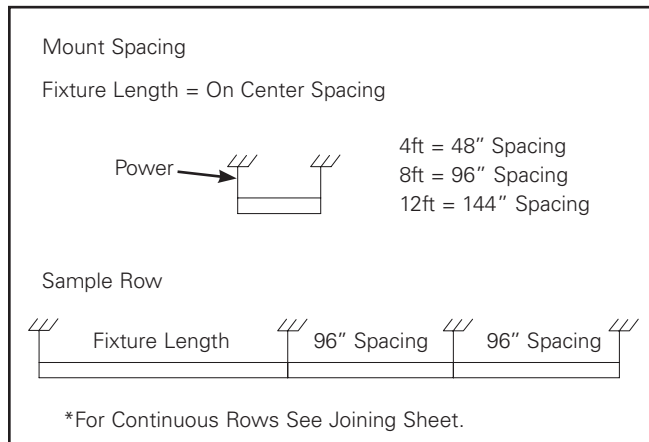


Figure 5.

Joining

1. Install first fixture with two AC cable assemblies, then each additional fixture with one additional cable at the opposite end of the joint. (Figure 6.)
2. Bend out tapered aligning tabs and fit into aligner slots. Fixture 2 is now supported by fixture 1 at the joint.
3. Make electrical connections. (Figure 7.)
4. Tuck wires into wire cavity, slide both fixtures together.

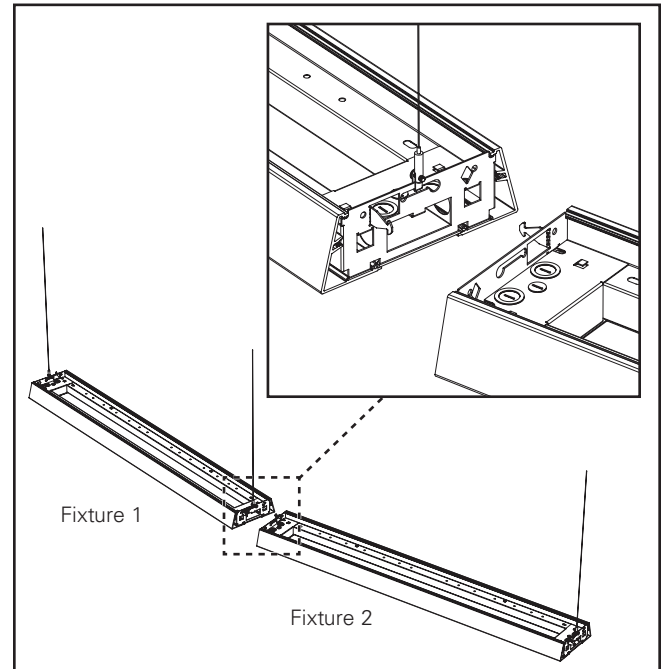


Figure 6.

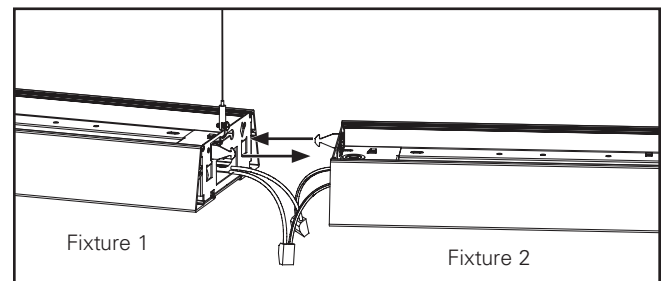


Figure 7.

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- Secure fixtures using two 10-32 x 3/8" screws and nuts. Tighten ¼ turn past hand-tight. (Figure 8.)
- Repeat for all joints.

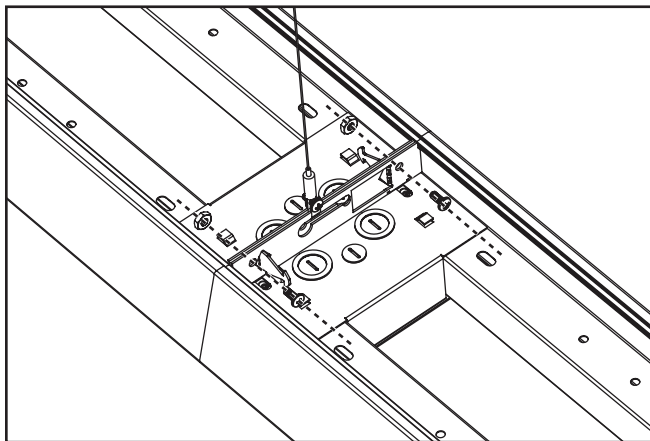


Figure 8.

End Cap/End Plate

- End Cap: Slide into end of fixture and secure with two 10-32 x 3/8" self-tapping screws. (Figure 9.)
OR
- End Plate: Slide into end of fixture and secure with two 10-32 nuts. (Figure 10.)

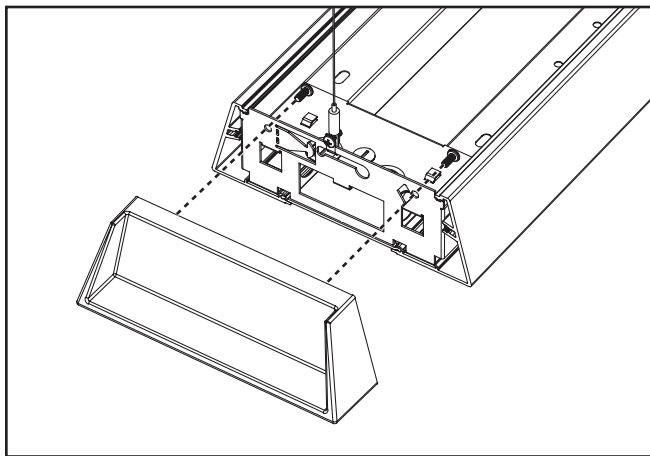


Figure 9.

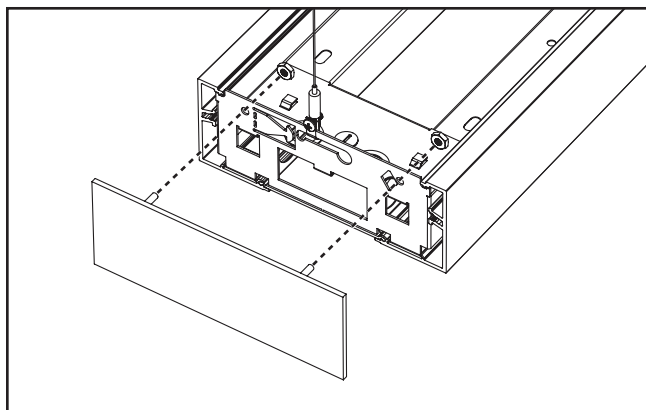


Figure 10.

Light Engine Re-Install

- After fixture installation is complete, re-install Light Engine(s).
- Tear along perforated edge to remove plastic protective film prior to installing light engine.
- Place Light Engine on top of fixture with connectors accessible.
- Snap connector together at both ends of each Light Engine. Any excess wire should be tucked back through the hole inside the fixture. (Figure 11.)
- Align Light Engine in fixture and snap into place.

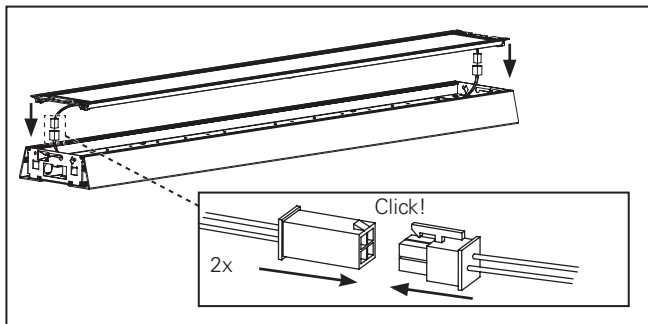


Figure 11.

Installing the DM Kit in the Field

Note: DM Kit can be specified and factory installed or ordered separately and installed in the field. (Figure 12.)

1. Unwrap DM Kit from packaging.
2. If DM5 is being installed, secure the lens above the Light Engine - position A (Figure 12).
3. If DM8 is being installed, remove Light Engine as shown in Figure 2. Secure lens into position B (figure 12). Re-Install Light Engine as shown in (Figure 11).

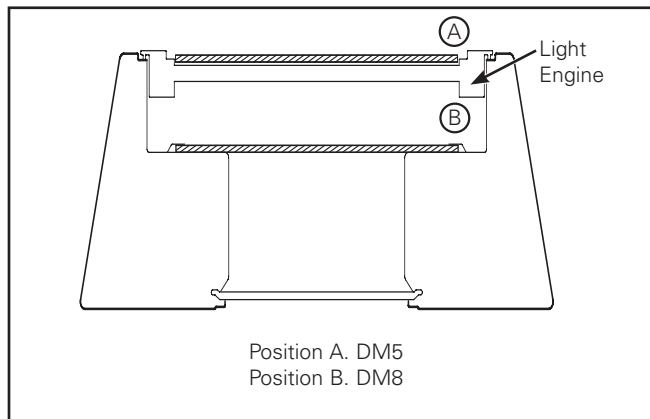


Figure 12.

Fixture Maintenance/Cleaning

1. Always follow recommended cleaning and handling procedures when cleaning the WaveStream™ lens. It can be permanently damaged if cleaned or handled improperly.
2. Before cleaning a WaveStream™ lens, take time to inspect the surfaces carefully in order to determine the type and severity of the contaminants. The process of cleaning the lens can result in damage to the optical surface if repeated multiple times.
3. For WaveStream™ lens with multiple contaminants, the order in which they are removed can be important. For instance, if a WaveStream™ lens is contaminated with oil and dust, it is possible that wiping the oil off first will scratch the optical surface as the dust is drug along the surface by the wipe.

Blowing off the Surface of an Optic

1. Dust and other loose contaminants should be blown off before any other cleaning technique is employed. Using compressed air over the entire lens is recommended to prevent static buildup.
2. When using compressed air, hold the can upright throughout the procedure. Also, start the flow of air with the nozzle pointed away from the lens. Hold the can approximately 6" from the optic and use short bursts. Move the nozzle of the compressed air can over the optic with the nozzle at a grazing angle to the optical surface in a constant one-way direction. Due to the non-contact and solvent-free nature of this cleaning method, it should be used as a first step in cleaning all optics.

Additional Cleaning Methods

1. Fingerprints and large dust particles can be removed by gently wiping the surface with a clean microfiber cloth. If additional cleaning is required, a mild solution of distilled water and Dawn® dish soap (between 1:20 and 1:10 parts Dawn to distilled water, respectively) could be used to wash the lens. The WaveStream™ lens should not remain wet any longer than necessary to remove the contaminants. Dry off surface with deionized air. Avoid pooling of water as that tends to leave streaks on the optical surface. This method is only recommended as a last resort as it increases the risk of damaging the lens.

Note: Avoid any organic solvents. In addition, avoid any cleaning products including ammonia, ketones, window cleaners, or other alcohol based cleaners and solvents containing thinners, acetone, benzene and tetrachloride.

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