

Recessed Luminaire Installation Instructions

R2 & R3 Series Product

WARNING

To Reduce Risk Of Death, Injury Or Property Damage From Fire, Electric Shock And Other Hazards:

- Service of equipment must be performed by qualified personnel.
- Installation and maintenance must be performed by qualified personnel familiar with the construction and operation of this product and any hazards involved. All applicable local and national codes and ordinances must be followed.
- Read this document before installing, servicing or maintaining this equipment. These instructions do not cover all installation, service and maintenance situations. If your situation is not covered, or, if you do not understand these instructions or need additional information, contact Lumato Lighting or your local Lumato Lighting distributor.

WARNING

Before Installing, Servicing Or Maintaining This Equipment, Follow These General Precautions To Reduce The Risk Of Electrocutation:

- Make sure the equipment is properly grounded.
- Always de-energize the circuit and/or equipment before connecting to, disconnecting from or servicing the equipment.

To Prevent Luminaire Row From Over-Current:

- By adding the input current of each luminaire section marked on the luminaire, the total current per power feed must not exceed the maximum line wire amperage rating in the luminaire and the power feed cord/wire amperage rating whichever is least.

CAUTION

It Is The Installers Responsibility To Ensure That Wall, Ceiling Or Junction Box Is Structurally Capable Of Supporting The Weight Of Luminaire/Luminaire Row.

WALL WASH REFLECTOR

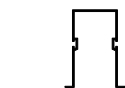
For 3" product line only
Page 2



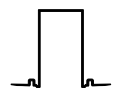
OFF-GRID

Pages 2 - 4

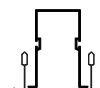
Pages 5 - 7



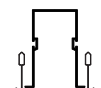
2R OVERLAPPING FLANGE (OF)



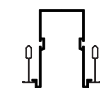
2R SPACKLE FLANGE (SF)



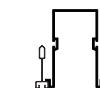
2R 1" T-GRID (T1)



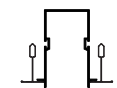
2R 9/16" T-GRID (T9)



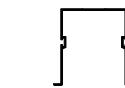
2R 9/16" T-TEG GRID (TG)



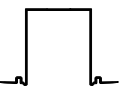
2R SCREW SLOT GRID (SC)



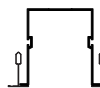
2R 1" T-TEG GRID (TG)



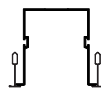
3R OVERLAPPING FLANGE (OF)



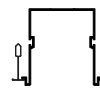
3R SPACKLE FLANGE (SF)



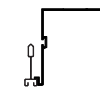
3R 1" T-GRID (T1)



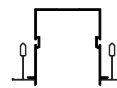
3R 9/16" T-GRID (T9)



3R 9/16" T-TEG GRID (TG)



3R SCREW SLOT GRID (SC)



3R 1" T-TEG GRID (TG)

ON-GRID

Pages 8 - 13

SAVE THESE INSTALLATION INSTRUCTIONS

Recessed Luminaire Installation Instructions

R2 & R3 For Sheetrock, Lathe and Plaster, and "Hard" Ceiling Systems

INDIVIDUAL LUMINAIRE INSTALLATION "OFF GRID" HARD CEILINGS

CAUTION

Ceiling contractor must provide a uninterrupted continuous rough opening maintaining straightness and width. Length and width as required. Fixtures should be secured to structure above to support weight of the fixture. Consult factory for the fixture weights if needed.

Overlapping Flange (OF):

Linear luminaires intended for "Sheet Rock" are to be installed with threaded rod to structure provided above "by others". The product and should be installed in accordance with these instructions.

Step One:

Remove the lens and LED tray and safely store aside. Using one of the 7/8" dia. holes on the end fixture, install conduit connector. Install fixture into the ceiling from below into ceiling opening following instructions within this document. Mounting holes are located on the backside "housing top" for supporting to structure above.

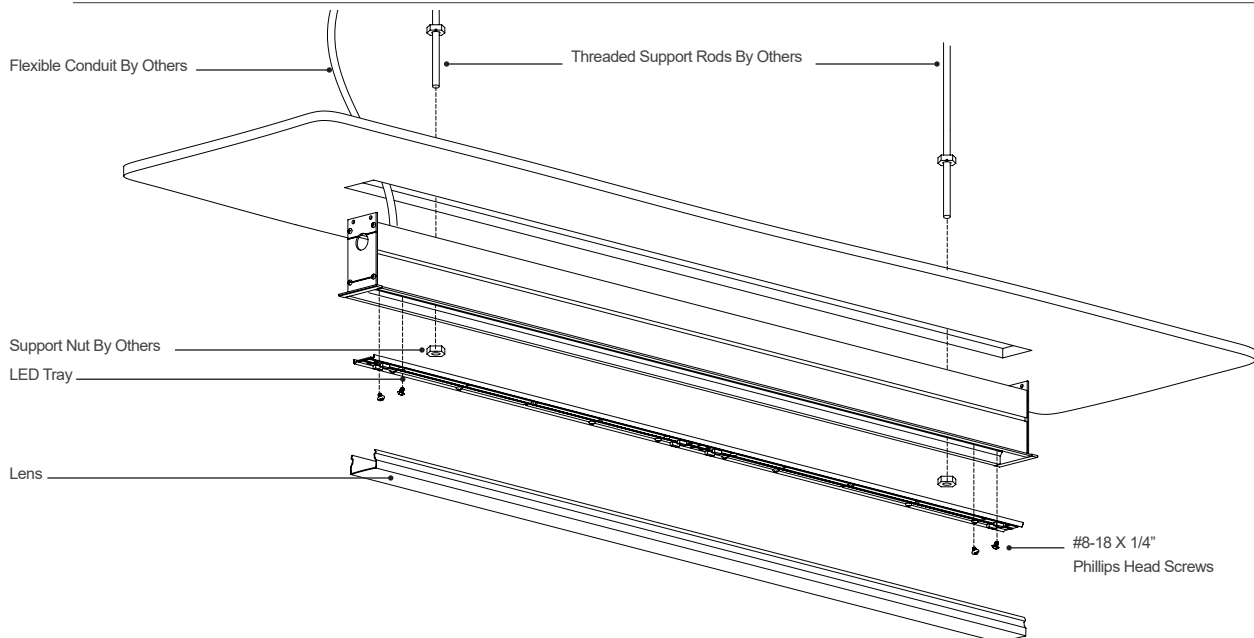
Step Two:

Attach supports to fixture through holes provided and to structure above as shown (FIG. 1). Confirm that fixture is pulled up firm to ceiling line.

Step Three:

Wire to leads provided in the wiring compartment. Supply connection & splice inspection to be made by removing the lens and LED tray. Replace LED tray and lens when complete.

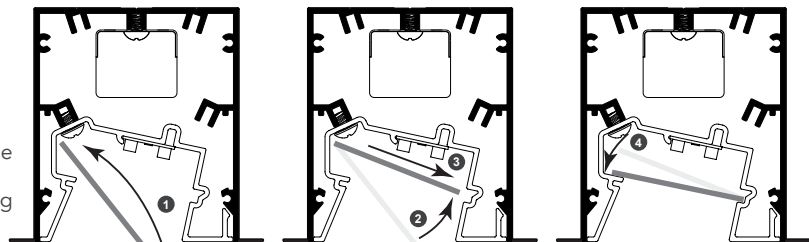
FIGURE 1



Wall Wash lens installation:

The Lift and Shift lens installation is done in 4 easy steps.
The textured side of the lens must point downwards.

1. Lift the lens into the housing towards the mounting screw.
- 2-3. Swing the lens into the housing aiming it towards the retaining groove and slide into the groove.
4. Allow the lens to rest on the surface opposite of the retaining groove.



Recessed Luminaire Installation Instructions

R2 & R3 For Sheetrock, Lathe and Plaster, and "Hard" Ceiling Systems

CONTINUOUS ROW LUMINAIRE INSTALLATION "OFF GRID" HARD CEILINGS

CAUTION

Attempt to assemble fixture rows on ground and lifting row into position may create stress at connection points and may result in damage and/or mechanical failure. It is best to perform the following tasks on a protective, elevated, stable surface to ease assembly and protect the fixtures (please also note this is to be done before attempting to mount the fixture run).

Ceiling contractor must provide a uninterrupted continuous rough opening maintaining straightness and width. Length and width as required. Fixtures should be secured to structure above to support weight of fixture run. Consult factory for fixture weights if needed.

Overlapping Flange (OF):

Linear luminaires intended for "Sheet Rock" are to be installed with threaded rod to structure above "by others". The product and should be installed in accordance with these instructions.

Step One:

Remove the lens and LED Reflector tray(s) and store them safely aside.

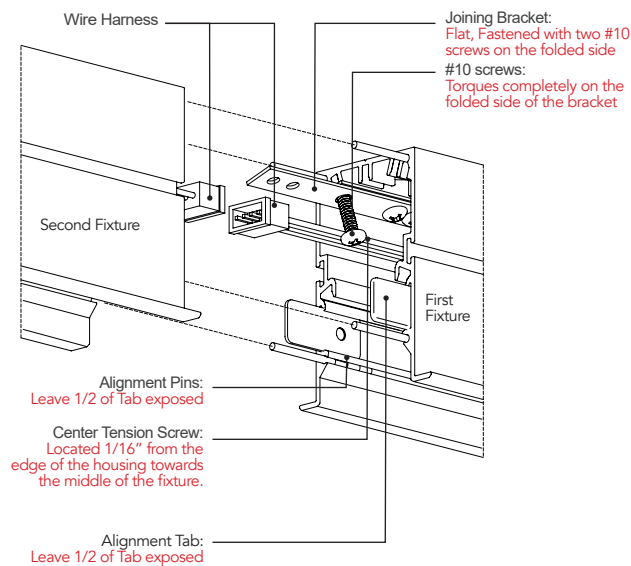
Step Two:

Locate and install Joiner Kits (FIG. 2). See the packing list for quantities per run.

Insert 4 alignment pins and 2 alignment tabs into the housing so that they are extending out towards the fixture to be joined by $\frac{1}{2}$ " (FIG 2). Attached the Joiner Bracket with two #10 screws positioning it so that the Center Tension Screw is located $\frac{1}{16}$ " from the edge of the housing (towards the middle of the fixture). Joining the fixture should mate easily leaving no gaps between housings.

Repeat this process for the balance of the fixtures in the run as need.

FIGURE 2



Recessed Luminaire Installation Instructions

R2 & R3 For Sheetrock, Lathe and Plaster, and "Hard" Ceiling Systems

Step Three:

After determining and locating the suspension points as shown in the submittal drawings, and following the mounting instructions provided, attach the first fixture "RH End of Row Fixture" in the row. Mounting hardware by others.

Step Four:

Position second fixture in a row (JOINER/INTERMEDIATE-ENDER) such that it aligns with the joint end of the first fixture as illustrated. (FIG.3) Make sure that all alignment hardware describes on Page 3 in (FIG. 2) are installed. It is also important to assemble an entire row on a flat, leveled, and elevated surface prior to the final ceiling installation to make sure that all alignment points fit together.

Step Five:

When both fixtures are secured to the ceiling, screw in two #10 screws through the joining bracket plate (FIG. 3A). Tighten the Center Tention Screw on the joining bracket enough to hold luminaires snug to the mounting surface (FIG. 3B). Joining brackets are designed for a single-use. Contact the factory for the additional joining kits.

Step Six:

Continue to install and assemble row following steps 2-5. Using one of the 7/8" dia. holes on the Ender fixture (FIG.3), install conduit connector, and wire to leads provided in the wiring compartment. Make a wire connection as required to meet the intended function. Reassemble LED/Reflector tray in reverse fashion and ensure that there are no wires bound by the reflector as this will cause the lens to not fit correctly. For 2" wide product line only: When reinstalling the LED tray, hold it firm in the housing tracks, screw the first screw with just a few revolutions, move to the middle, and to the last screw before screwing the first screw all the way in. Not following this step will cause the LED Tray to slide out of position and interfere with the end cap or the next fixture in a row. Please refer to Page 2 for the Wall Wash lens installation. Reinstall lens(es).

FIGURE 3

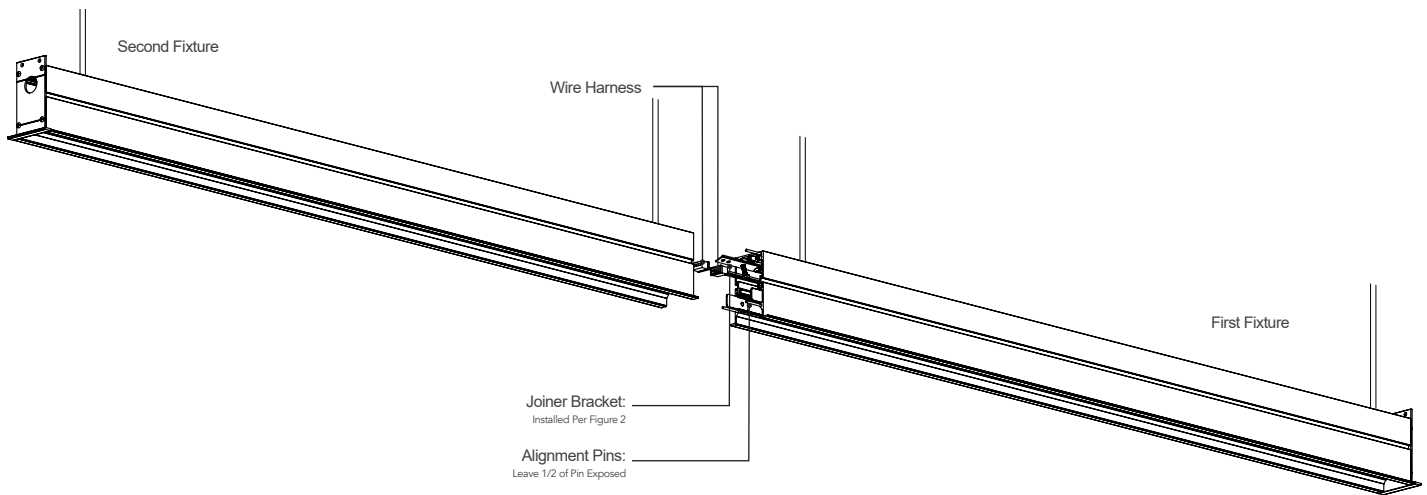


FIGURE 3A Shown in a cross-section for clarity

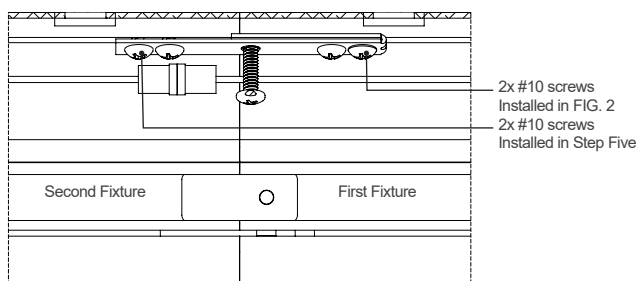
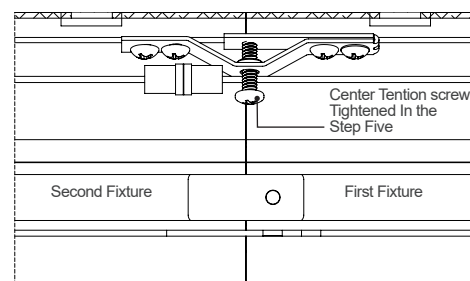


FIGURE 3B Shown in a cross-section for clarity



Recessed Luminaire Installation Instructions

R2 & R3 For Sheetrock, Lathe and Plaster, and "Hard" Ceiling Systems

INDIVIDUAL LUMINAIRE INSTALLATION "SPACKLE FLANGE" HARD CEILINGS

CAUTION

Ceiling contractor must provide a uninterrupted continuous rough opening maintaining straightness and width. Length and width as required. Fixtures should be secured to structure above to support weight of fixture run. Consult factory for fixture weights if needed.

Spackle Flange (SF):

Trimless Linear luminaires intended for hard ceiling are to be installed with fasteners through the flange to the structure above in accordance with these instructions "by others".

Step One:

Remove the lens and LED tray and safely store them aside.

Step Two:

Install LED Tray Spacer bracket(s) into the housing as shown (FIG.4) with two #8 screws, then install a Housing Spacer Bracket(s) with two #10 screws. Spacer bracket(s) must be installed on 4'-12' fixtures every two feet. Using one of the 7/8" dia. holes on the end plates, install conduit connector. Depending on the type of the fasteners used by the installer, an appropriate number of holes needs to be drilled into the housing flange. We recommend installing a fasteners ever 12"-16" along the flange and one fastener on the end caps.

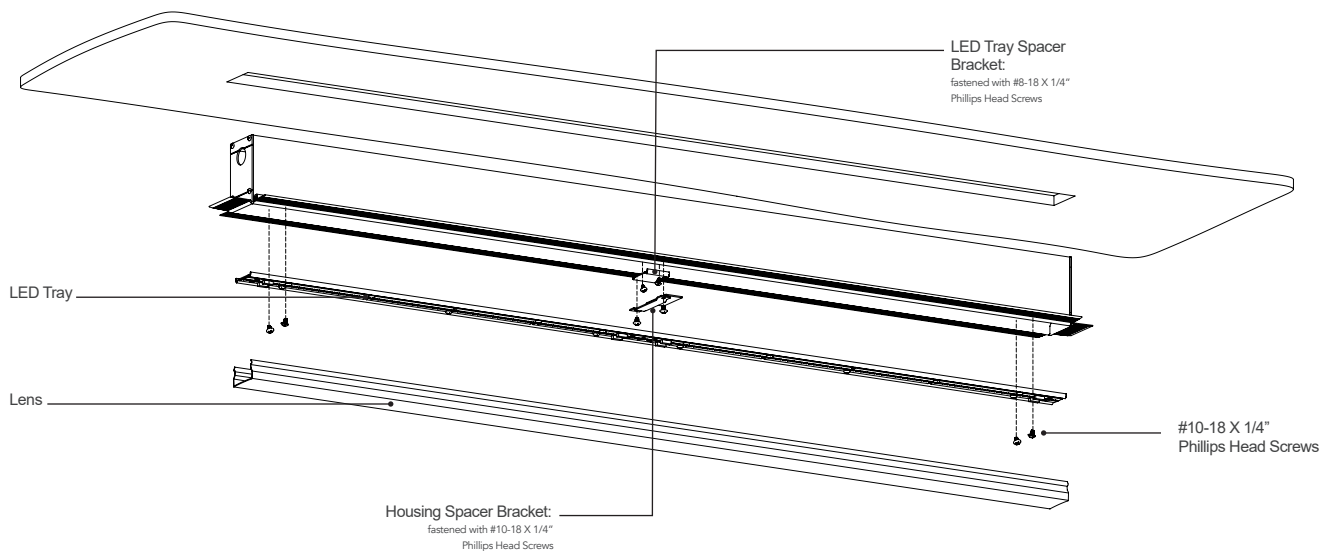
Step Three:

Install fixture into ceiling opening from below following instructions within this document. (FIG. 4). Make sure that Both types of the spacer brackets are installed prior to fixing flange to the ceiling. Confirm that fixture is pulled up firm to ceiling line. Remove brackets and begin to plaster over the flange and the ceiling. Make sure not to get any plaster into the lens or the LED tray grooves.

Step Four:

Wire to leads provided in the wiring compartment. Supply connection & splice inspection to be made by removing the lens and LED tray. Replace LED tray and lens when complete.

FIGURE 4



Recessed Luminaire Installation Instructions

R2 & R3 For Sheetrock, Lathe and Plaster, and "Hard" Ceiling Systems

CONTINUOUS ROW LUMINAIRE INSTALLATION "SPACKLE FLANGE" HARD CEILINGS

CAUTION

Attempt to assemble fixture rows on ground and lifting row into position may create stress at connection points and may result in damage and/or mechanical failure. It is best to perform the following tasks on a protective, elevated, stable surface to ease assembly and to protect the fixtures. (Please also note this is to be done before attempting to mount the fixture run).

Ceiling contractor must provide a uninterrupted continuous rough opening maintaining straightness and width. Length and width as required. Fixtures should be secured to structure above to support weight of fixture run. Consult factory for fixture weights if needed.

Spackle Flange (SF):

Trimless Linear luminaires intended for hard ceiling are to be installed with fasteners through the flange to the structure above in accordance with these instructions "by others".

Step One:

Remove the lens and LED tray(s) and safely store them aside.

Step Two:

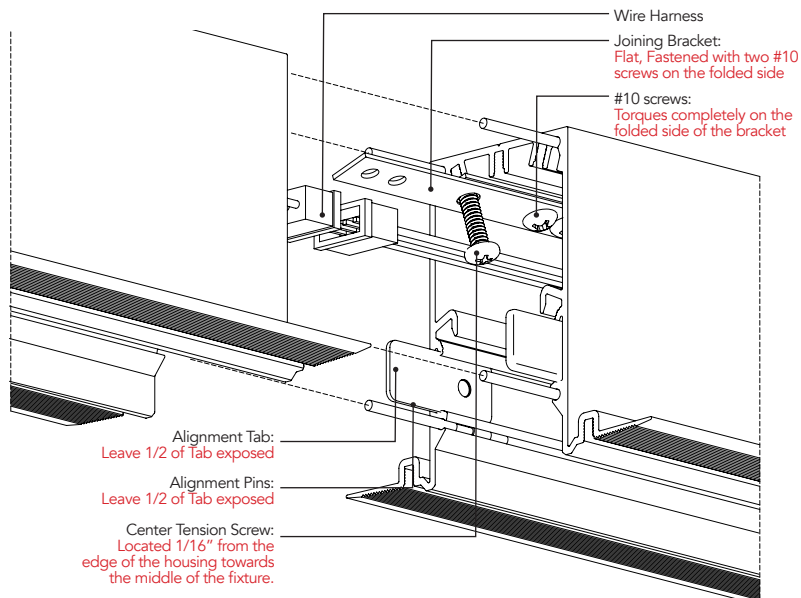
Install LED Tray Spacer bracket(s) into the housing as shown (FIG.4) with two #8 screws, then install a Housing Spacer Bracket(s) with two #10 screws. Spacer bracket(s) must be installed on 4'-12' fixtures every two feet. Using one of the 7/8" dia. holes on the end plates, install conduit connector. Depending on the type of the fasteners used by the installer, an appropriate number of holes needs to be drilled into the housing flange. We recommend installing a fasteners ever 12"-16" along the flange and one fastener on the end caps.

Locate and install Joiner Kits. (FIG. 5) See the packing list for quantities per run. Install Joining Brackets following the written instructions and as illustrated below.

Insert 4 alignment pins and 2 alignment tabs into the housing so that they are extending out towards the fixture to be joined by 1/2" (FIG 5). Attached the Joiner Bracket with two #10 screws positioning it so that the Center Tension Screw is located 1/16" from the edge of the housing (towards the middle of the fixture). Joining fixtures should mate easily leaving no gaps between housings.

Repeat the process for the balance of the fixtures in the run as needed. Complete each fixture in the run to assure the run can be assembled from right to left as intended.

FIGURE 5



Recessed Luminaire Installation Instructions

R2 & R3 For Sheetrock, Lathe and Plaster, and "Hard" Ceiling Systems

Step Three:

Attach the first fixture "RH End of Row Fixture" in the row to the ceiling. Mounting hardware by others. Position second fixture in a row (JOINER/INTERMEDIATE-ENDER) such that it aligns with the joint end of the first fixture as illustrated. (FIG.6) Make sure that all alignment hardware describes on Page 6 in (FIG. 5) are installed. It is also important to assemble an entire row on a flat, leveled, and elevated surface prior to the final ceiling installation to make sure that all alignment points fit together.

Step Four:

Push luminaires tightly together while making sure the alignment tabs slide into the interior tracks of each luminaire. Confirm fixtures are secured to structure above as noted. When both fixtures are secured to the ceiling, screw in two #10 screws through the joining bracket plate (FIG. 6A). when the second fixture in a row is installed, tighten the Center Tention Screw on the joining bracket (FIG. 6B). Joining brackets are designed for a single-use. Contact the factory for the additional joining kits.

Step Five:

Continue to install and assemble row following steps 2-4. Using one of the 7/8" dia. holes on the Ender fixture (FIG. 6), install conduit connector and wire to leads provided in the wiring compartment. Install fixture into position. Confirm that each fixture in the row is pulled up firm to ceiling line. Remove the spacer brackets and begin to plaster over the flange and the ceiling. Make sure not to get any plaster into the lens grooves.

Step Six:

Make a wire connection as required to meet the intended function. Reassemble LED/Reflector tray in reverse fashion and ensure that there are no wires bound by the reflector as this will cause the lens to not fit correctly. For 2" wide product line only: When reinstalling the LED tray, hold it firm in the housing tracks, screw the first screw with just a few revolutions, move to the middle, and to the last screw before screwing the first screw all the way in. Not following this step will cause the LED Tray to slide out of position and interfere with the endplates or the next fixture in a row. Please refer to Page 2 for the Wall Wash lens installation.

FIGURE 6

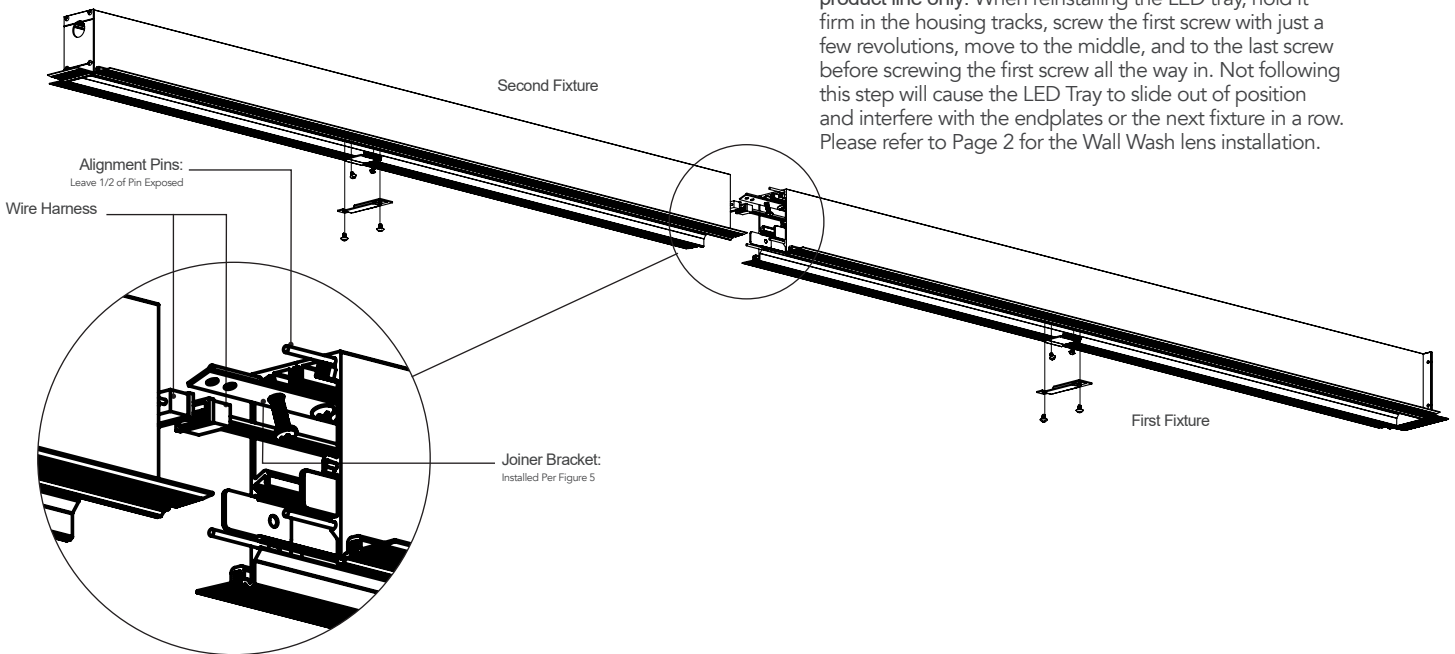
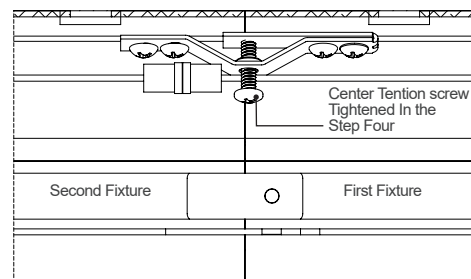
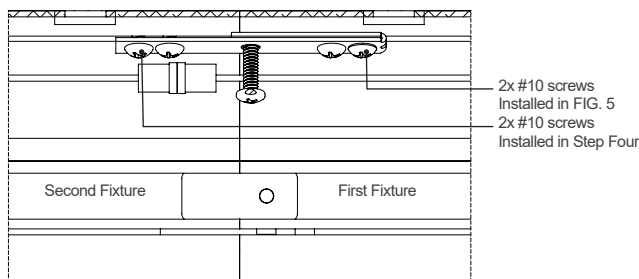


FIGURE 6A Shown in a cross-section for clarity

FIGURE 6B Shown in a cross-section for clarity



Recessed Luminaire Installation Instructions

R2 & R3 For Sheetrock, Lathe and Plaster, and "Hard" Ceiling Systems

INDIVIDUAL LUMINAIRE INSTALLATION "ON GRID" HARD CEILINGS

CAUTION

Ceiling contractor must provide a uninterrupted continuous rough opening maintaining straightness and width. Length and width as required. Fixtures should be secured to structure above to support weight of fixture run. Consult factory for fixture weights if needed.

-Linear suspended luminaires intended for "Lay in Grid" or "Tee Bar Ceiling" are to be installed on and connected to grid with safety clips provided and support to structure above. Hanger wire by others.

Step One:

Remove lens and LED tray(s) and safely store them aside (supply connection & splice inspection inside fixture cavity). Install fixture into ceiling grid from above following instructions illustrated below, shop drawings or order processing specification sheet. (FIG.7)

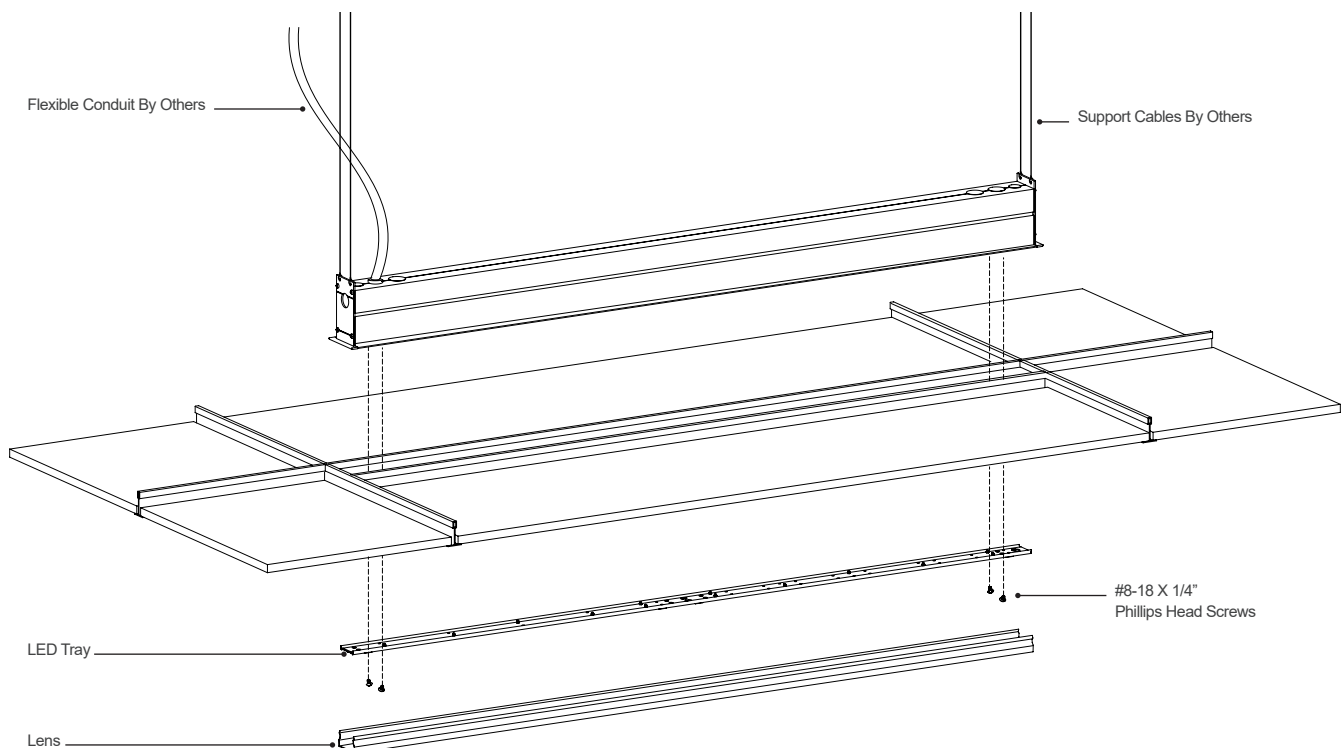
Step Two:

Attach safety brackets to tee (if required) and safety wires to fixture and structure above as shown in FIG.7 and FIG.9.

Step Three:

Using one of the 7/8" dia. holes on the end of the fixture, install conduit connector and wire to leads provided in wiring compartment. Supply connection and splice inspection to be made by removing lens and LED tray. Reassemble LED/Reflector tray in reverse fashion and ensure that there are no wires bound by the reflector as this will cause the lens to not fit correctly. For 2" wide product line only: When reinstalling the LED tray, hold it firm in the housing tracks, screw the first screw with just a few revolutions, move to the middle, and to the last screw before screwing the first screw all the way in. Not following this step will cause the LED Tray to slide out of position and interfere with the endplate or the next fixture in a row. Please refer to Page 2 for the Wall Wash lens installation. Reinstall lens(es).

FIGURE 7



Recessed Luminaire Installation Instructions

R2 & R3 For Sheetrock, Lathe and Plaster, and "Hard" Ceiling Systems

CONTINUOUS ROW LUMINAIRE INSTALLATION "ON GRID" HARD CEILINGS

CAUTION

-Attempt to assemble fixture rows on ground and lifting row into position may create stress at connection points and may result in damage and/or mechanical failure.

Ceiling contractor must provide a uninterrupted continuous rough opening maintaining straightness and width. Length and width as required. Fixtures should be secured to structure above to support weight of fixture run. Consult factory for fixture weights if needed.

-Linear suspended luminaires intended for "Lay in Grid" or "Tee Bar Ceiling" are to be installed on and connected to grid with safety clips provided and support to structure above. Hanger wire by others.

Step One:

Remove lens and LED trays and safely store them aside (supply connection & splice inspection inside fixture cavity). Locate and install Joiner Kits (FIG. 8). See the packing list for quantities per run.

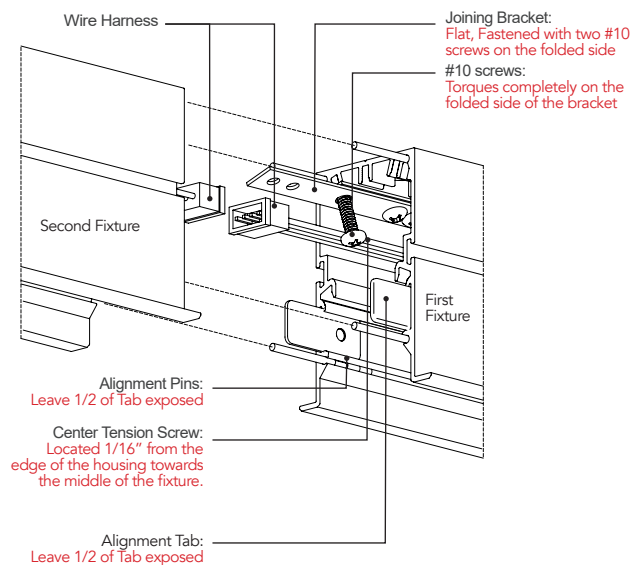
Insert 4 alignment pins and 2 alignment tabs into the housing so that they are extending out towards the fixture to be joined by 1/2" (FIG 2). Attached the Joiner Bracket with two #10 screws positioning it so that the Center Tension Screw is located 1/16" from the edge of the housing (towards the middle of the fixture). Joining the fixture should mate easily leaving no gaps between housings.

Repeat this process for the balance of the fixtures in the run as need.

Step One:

Install fixture into ceiling grid from above following instructions illustrated below, shop drawings or order processing specification sheet. (FIG.9). Attach safety brackets to tee (if required) and safety wires to fixture and structure above as hown in FIG.9

FIGURE 8



Recessed Luminaire Installation Instructions

R2 & R3 For Sheetrock, Lathe and Plaster, and "Hard" Ceiling Systems

Step Three:

After determining and locating the suspension points as shown in the submittal drawings, and following the mounting instructions provided, attach the first fixture "RH End of Row Fixture" in the row. Mounting hardware by others.

Step Four:

Position second fixture in a row (JOINER/INTERMEDIATE-ENDER) such that it aligns with the joint end of the first fixture as illustrated. (FIG.9) Make sure that all alignment hardware describes on Page 9 in (FIG. 8) are installed. It is also important to assemble an entire row on a flat, leveled, and elevated surface prior to the final ceiling installation to make sure that all alignment points fit together.

Step Five:

When both fixtures are secured to the ceiling, screw in two #10 screws through the joining bracket plate (FIG. 9A). Tighten the Center Tention Screw on the joining bracket enough to hold luminaires snug to the mounting surface (FIG. 9B). Joining brackets are designed for a single-use. Contact the factory for the additional joining kits.

Step Six:

Continue to install and assemble row following steps 2-5. Using one of the 7/8" dia. holes on the Ender fixture (FIG.9), install conduit connector, and wire to leads provided in the wiring compartment. Make a wire connection as required to meet the intended function. Reassemble LED/Reflector tray in reverse fashion and ensure that there are no wires bound by the reflector as this will cause the lens to not fit correctly. For 2" wide product line only: When reinstalling the LED tray, hold it firm in the housing tracks, screw the first screw with just a few revolutions, move to the middle, and to the last screw before screwing the first screw all the way in. Not following this step will cause the LED Tray to slide out of position and interfere with the end cap or the next fixture in a row. Please refer to Page 2 for the Wall Wash lens installation. Reinstall lens(es).

FIGURE 9

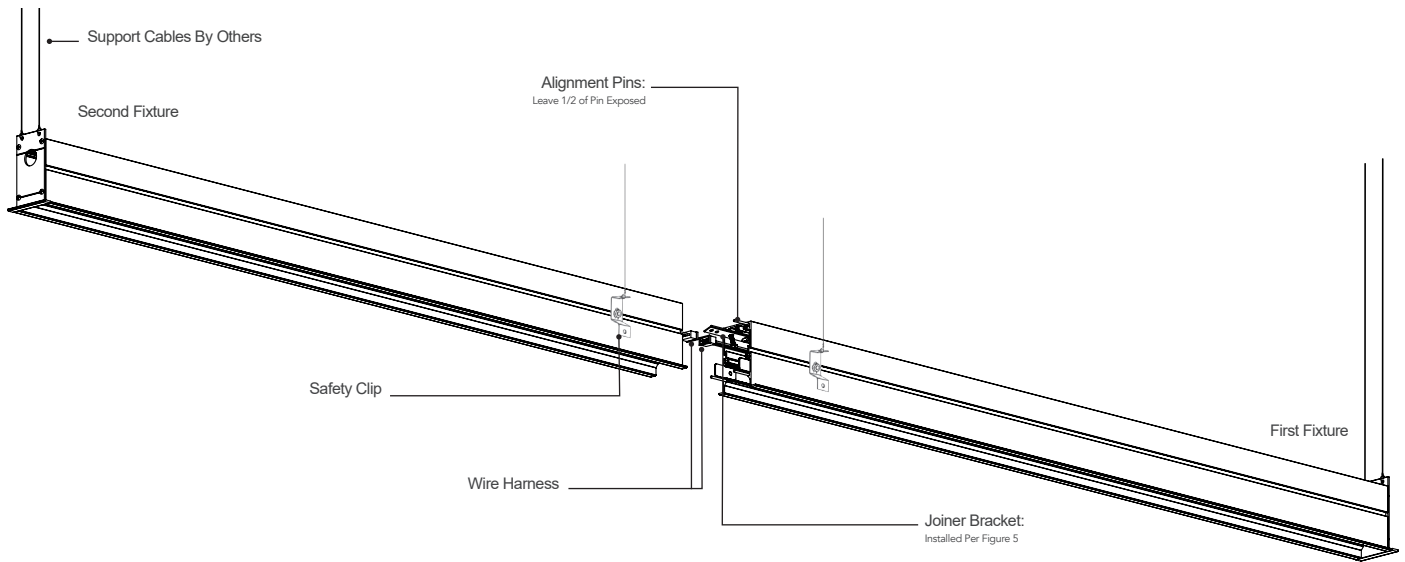


FIGURE 9A Shown in a cross-section for clarity

FIGURE 9B Shown in a cross-section for clarity

