

# Installation Guide

## Recessed Slot Lighting

MRI Compatible

### Important Safety Instructions

When using electrical equipment, basic safety precautions should always be followed including the following:

#### Read And Follow All Safety Instructions

- Warning:** This product must be installed in accordance with the NEC or your local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician. *Avertissement: Ce produit doit être installé conformément au NEC ou à votre code électrique local. Si vous n’êtes pas familier avec ces codes et exigences, consultez un électricien qualifié.*
- Warning:** This equipment is not for use in hazardous combustible atmospheres as defined by the National Electrical Code. *Avertissement: Cet équipement ne doit pas être utilisé dans des atmosphères combustibles dangereuses telles que définies par le Code national de l’électricité.*
- Do not** install insulation within 76 mm (3 in) of any part of this luminaire. *Ne pas mettre l’isolant a moins de 76 mm (3 po.) De toute partie du luminaire.*
- Dry** locations only. *Pour emplacements secs seulement.*
- Access** above ceiling required. *Acces requis au-dessus du plafond.*
- Access** behind wall required. *Acces requis derriere le mur.*
- Inherently** protected. *Protection inherente.*
- Note:** Suitable building structure and mounting fasteners should be identified by a person competent in evaluating the fixture weight load or other related stresses at the fixture installation location(s).
- Note:** The luminaire will be shipped with the lens un-installed and will be placed after the luminaire is mounted.

### Save These Instructions For Future Reference

#### Linear Slot Lighting

Linear Slot - RGB 1-07-000012	5-07-000046	End Section 1
	5-07-000047	Center Section
	5-07-000048	End Section 2
Linear Slot - 35K 1-07-000088	5-07-000039	End Section 1
	5-07-000040	Center Section
	5-07-000041	End Section 2
Linear Slot - 50K 1-07-000115	5-07-000042	End Section 1
	5-07-000043	Center Section
	5-07-000044	End Section 2

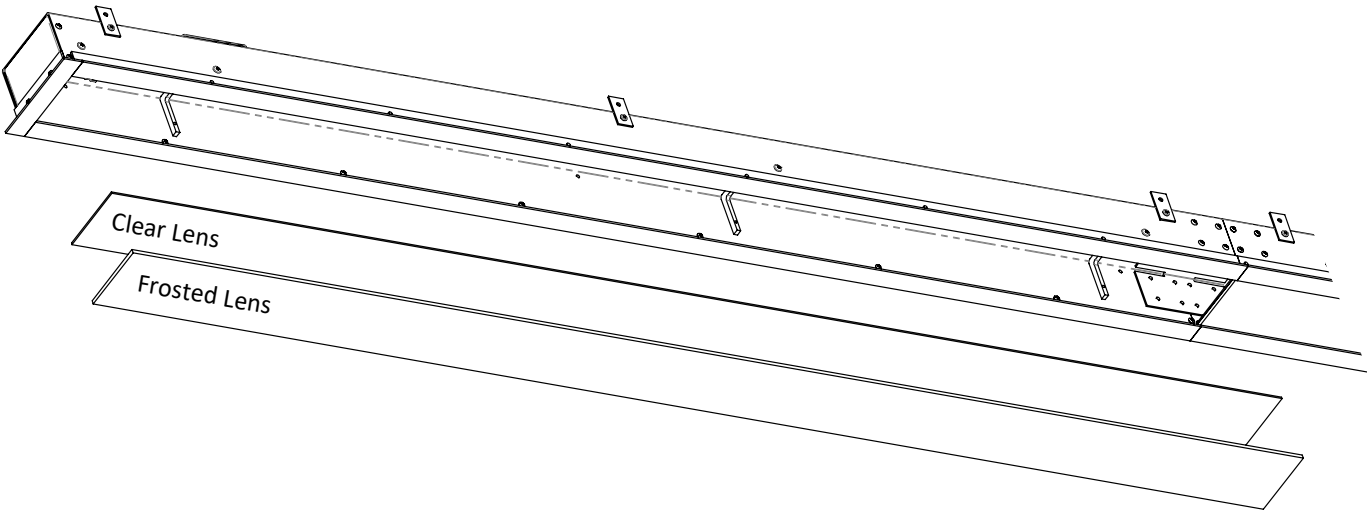
#### Curved Slot Lighting

Curved Slot - RGB 1-07-000011	5-07-000026	End Section 1
	5-07-000025	Center Section
	5-07-000027	End Section 2
Curved Slot - 35K 1-07-000089	5-07-000029	End Section 1
	5-07-000028	Center Section
	5-07-000030	End Section 2
Curved Slot- 50K 1-07-000113	5-07-000032	End Section 1
	5-07-000031	Center Section
	5-07-000033	End Section 2

\*Consult factory for custom sizes.

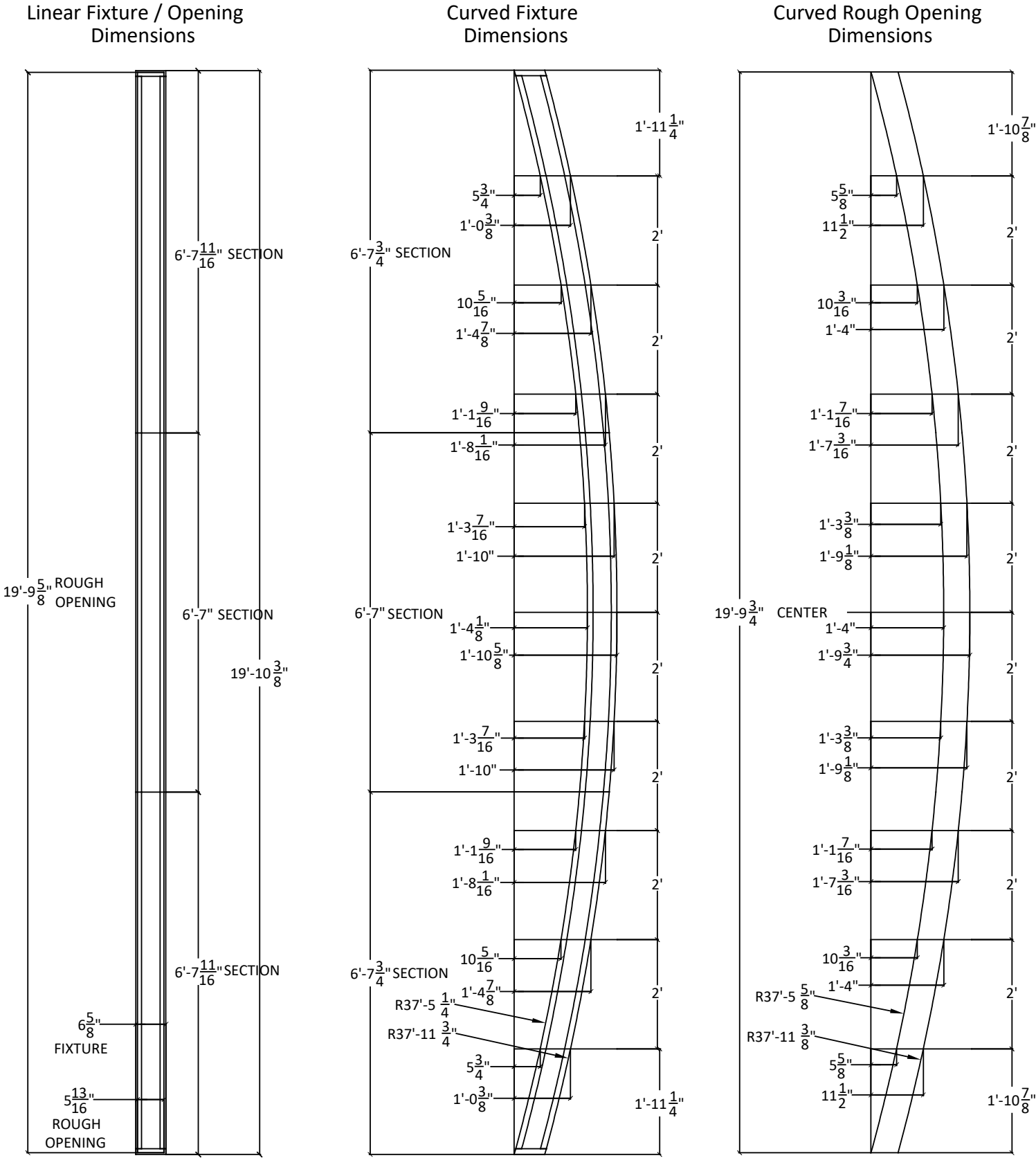
### UNCRATING NOTE:

Slot Lights come with TWO layers of lens material. Please do not discard.



Installation: Rough Opening

**Step 1:**  
Turn off the power supply. Create a rough opening in the intended mounting surface based on the dimensional drawings below.



## Installation: Linear Slot Luminaire Installation

### Note:

The Slot Light sections can be installed one at a time directly to the intended mounting location and then joined together or the three sections can be joined together on a clean work surface and then mounted in the intended location. If joined before mounting, multiple people will be needed to lift the luminaire due to the total length of the fully assembled luminaire.

### Step 1:

Turn off the main power supply.

### Step 2:

Beginning with the Center Section, secure the luminaire to the intended mounting surface by using screw or bolt type fasteners through the hanging brackets located at the top of the luminaire housing as shown in **Diagram 1**. **Or:** Secure the luminaire to the intended mounting surface by using appropriate luminaire hanging wires through the tabs provided near the end and at the top of the luminaire to the main supports as shown in **Diagram 1**. No auxiliary supports are required.

### Step 3:

Secure the two End Sections to the intended mounting surface in the same method as the Center Section in **Step 2**.

### Step 4:

Wire each section of the luminaire per the **Electrical Connections** section.

Diagram 1

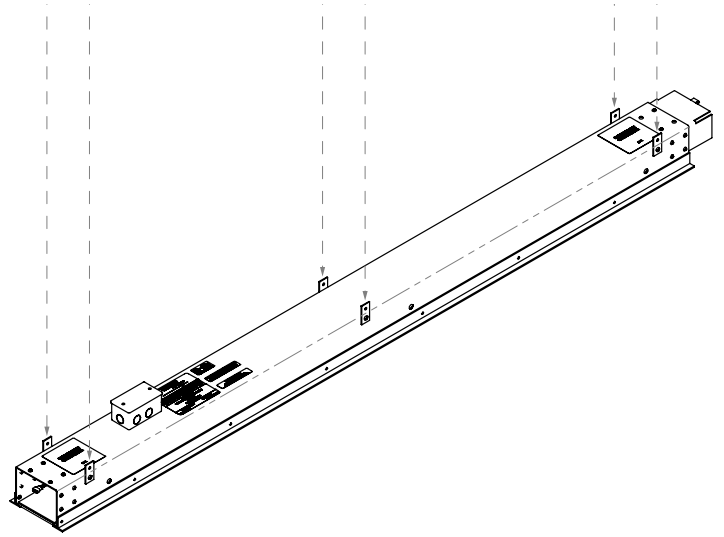


Diagram 2

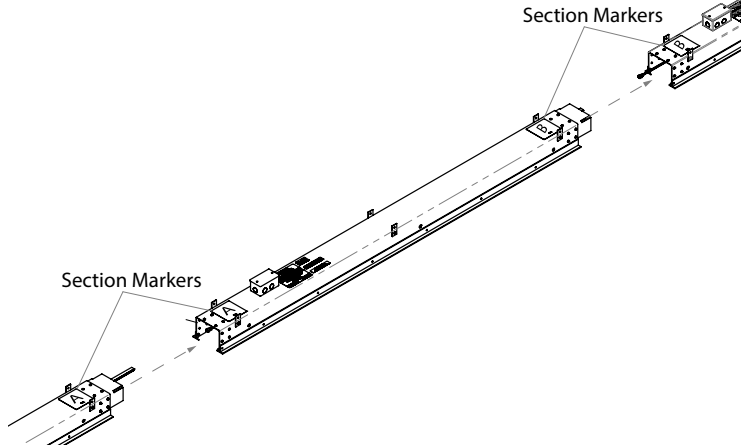
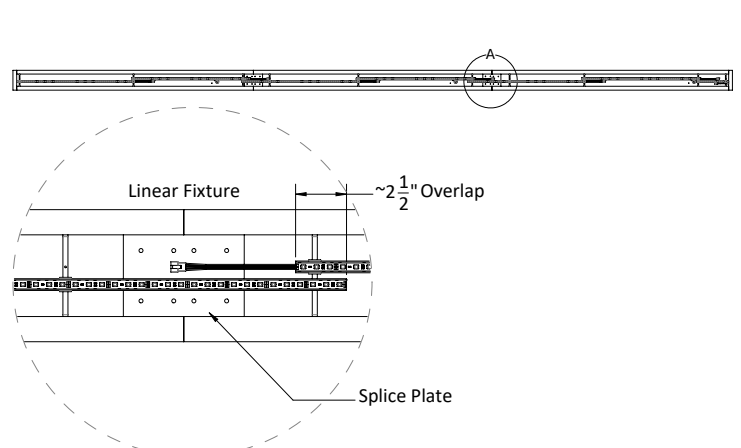


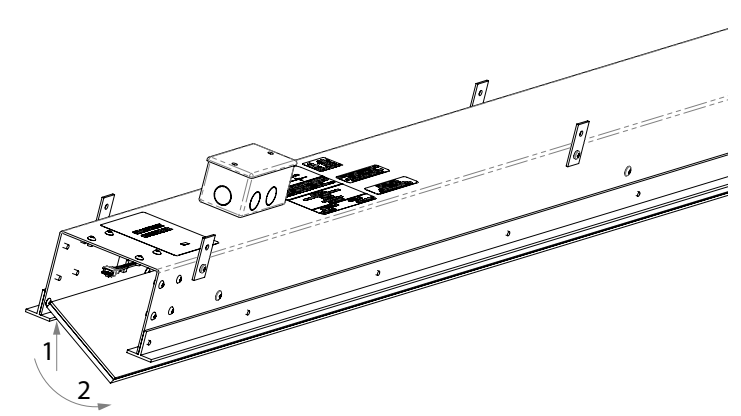
Diagram 3



### Step 5:

To join the sections together, connect the two End Sections to the Center Section by inserting the end with the Splice Plate into the end without a splice plate. Make sure each section marker lines up, A-A and B-B. See **Diagram 2**.

Diagram 4



### Step 6:

To fasten the sections together, secure the outer screws first into the threaded holes of the splice plate. Hand tighten screws only. Over tightening may cause cross threading of the threaded openings.

### Step 7:

Place the remaining 4 screws into the luminaire and through the splice plate. Be sure to align the LED Segments so they are overlapping by 1-2 segments. See **Diagram 3**.

**Note:** The LED strips must overlap per Diagram 3. To protect the LED's, the product does not ship with the LED Strips protruding from the fixture housing. The LED Strips will need to be slid into position after the sections are joined.

### Step 8:

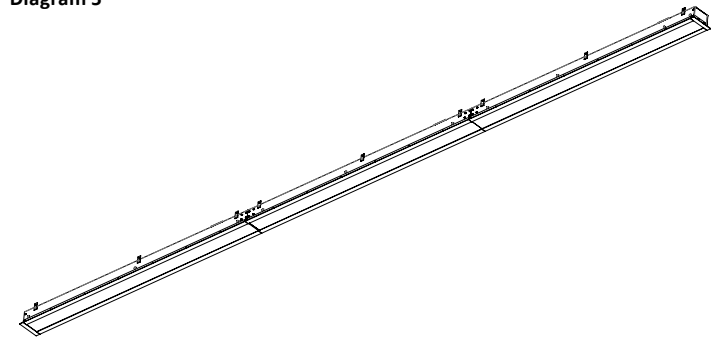
Ensure each end of the Slot Light is capped by the supplied end piece(s).

**Step 9:**

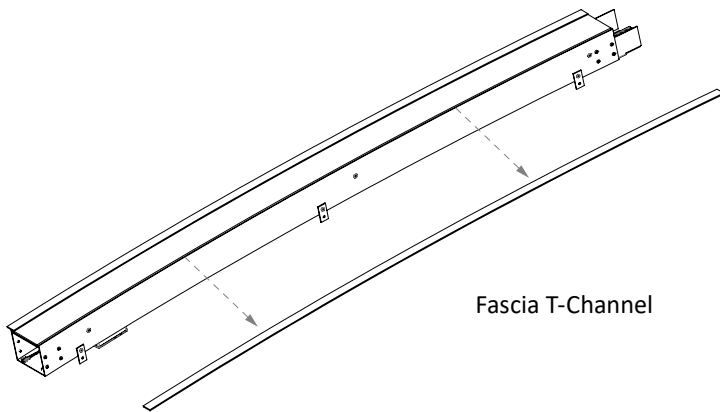
To install the lens, first stack the lenses so the translucent diffuser will be on the room side and the clear lens will be on the interior of the luminaire.

**Step 10:**

Holding both lenses stacked together, insert them in to the T-Channel along one edge of the luminaire at an angle as shown in **Diagram 4** by **Number 1** and then rotate up as shown by **Number 2**. Ensure the lenses are resting evenly on each of the T-Channels. The completed installation will look like **Diagram 5**.

**Diagram 5****Installation: Curved Slot Luminaire Installation****Note:**

The Slot Light sections can be installed one at a time directly to the intended mounting location and then joined together or the three sections can be joined together on a clean work surface and then mounted in the intended location. If joined before mounting, multiple people will be needed to lift the luminaire due to the total length of the fully assembled luminaire.

**Diagram 6****Step 1:**

Turn off the power supply.

**Step 2:**

Remove the inner Fascia T-Channel on the center luminaire by removing the 7 phillips head screws securing the T-Channel to the luminaire housing as shown in **Diagram 6**.

**Step 3:**

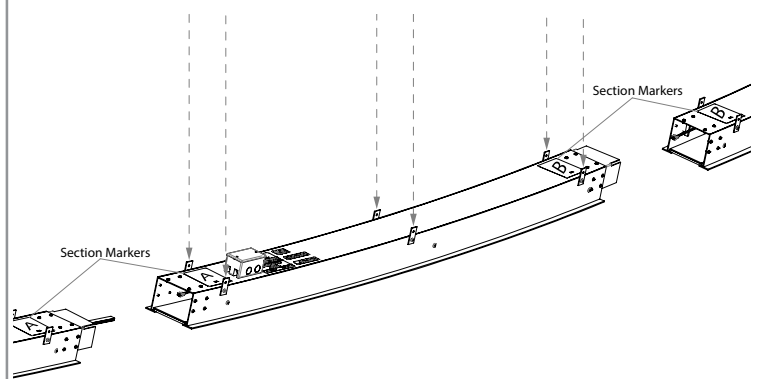
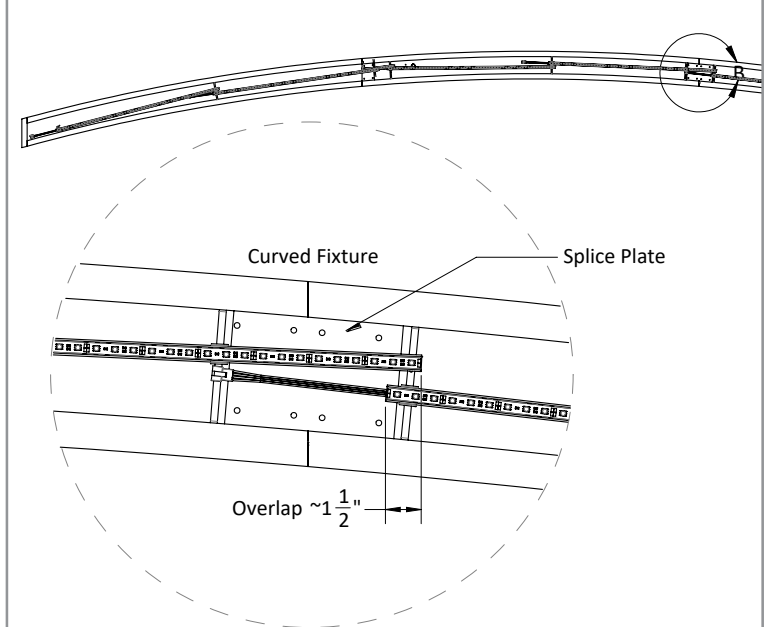
Beginning with the Center Section, secure it to the intended mounting surface by using screw or bolt type fasteners through the hanging brackets located at the top of the housing as shown in **Diagram 7**. **Or:** Secure it to the intended mounting surface by using appropriate luminaire hanging wires through the tabs provided near the end and at the top of the luminaire to the main supports as shown in **Diagram 7**. No auxiliary supports are required.

**Step 4:**

Secure the two End Sections to the intended mounting surface in the same method as the Center Section in **Step 2**.

**Step 5:**

Wire each luminaire section per the **Electrical Connections** section.

**Diagram 7****Diagram 8**

**Step 6:**

To join the sections together, connect the two End Sections to the Center Section by inserting the end with the Splice Plate into the end without a splice plate as shown in **Diagram 7**. Make sure each section marker lines up, A-A and B-B.

**Step 7:**

To fasten the sections together, secure the outer screws first into the threaded holes of the splice plate. Hand tighten screws only. Over tightening may cause cross threading of the threaded openings.

**Step 8:**

Place the remaining 4 screws into the luminaire and through the splice plate. Be sure to align the LED Segments so they are overlapping by 1-2 segments. **See Diagram 8**.

**Note:** The LED strips must overlap per Diagram 8. To protect the LED's, the product does not ship with the LED Strips protruding from the fixture housing. The LED Strips will need to be slid into position after the sections are joined.

**Step 9:**

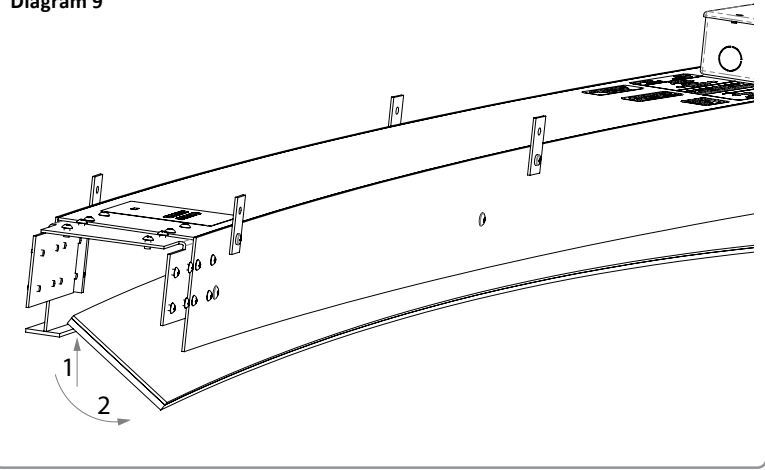
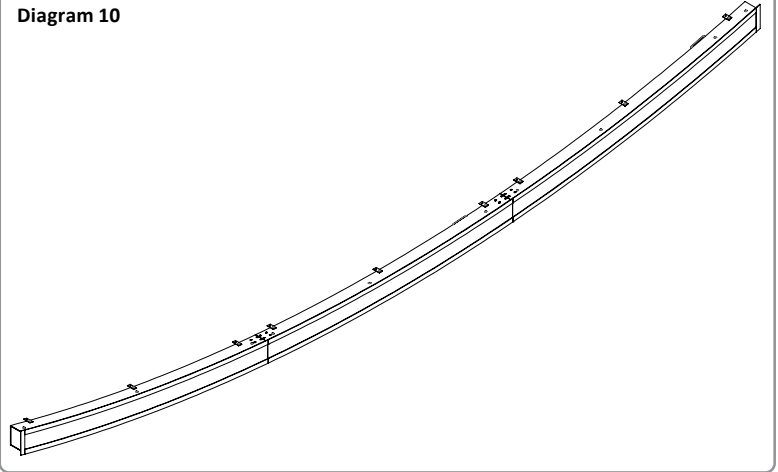
Ensure each end of the Slot Light Luminaire is capped by the supplied end piece(s).

**Step 10:**

To install the lens, first stack the lenses so the translucent diffuser will be on the room side and the clear lens will be on the interior of the luminaire.

**Step 11:**

Holding both lenses stacked together, insert them in to the T-Channel along one edge of the Center Section at an angle as shown in **Number 1** of **Diagram 9** and then rotate up as shown in **Number 2** of **Diagram 9**. Slide the lenses to the end on End Section 1. Ensure the lenses are resting evenly on the T-Channels of each side of the luminaire. The completed installation will look like **Diagram 10**.

**Diagram 9****Diagram 10****Step 12:**

Repeat **Step 11** and slide the lenses to the end of End Section 2.

**Step 13:**

Re-install the inner Fascia T-Channel on the Center section removed in **Step 2**. the lenses are resting evenly on the T-Channels of each side.

## Combining Curved and Linear Luminaire Installation

**Step 1:**

It is possible to make a combination luminaire using curved and linear pieces. When ordered as a custom fixture, please consult PDC for custom options. It is recommended to follow the instructions stated above for the assembly, however it should be completely assembled outside of the ceiling and then installed as a complete unit. This will require multiple people for the installation so the luminaire does not bend during installation.

**Step 2:**

Wire each luminaire section per the **Electrical Connections** section.

## Electrical Connections

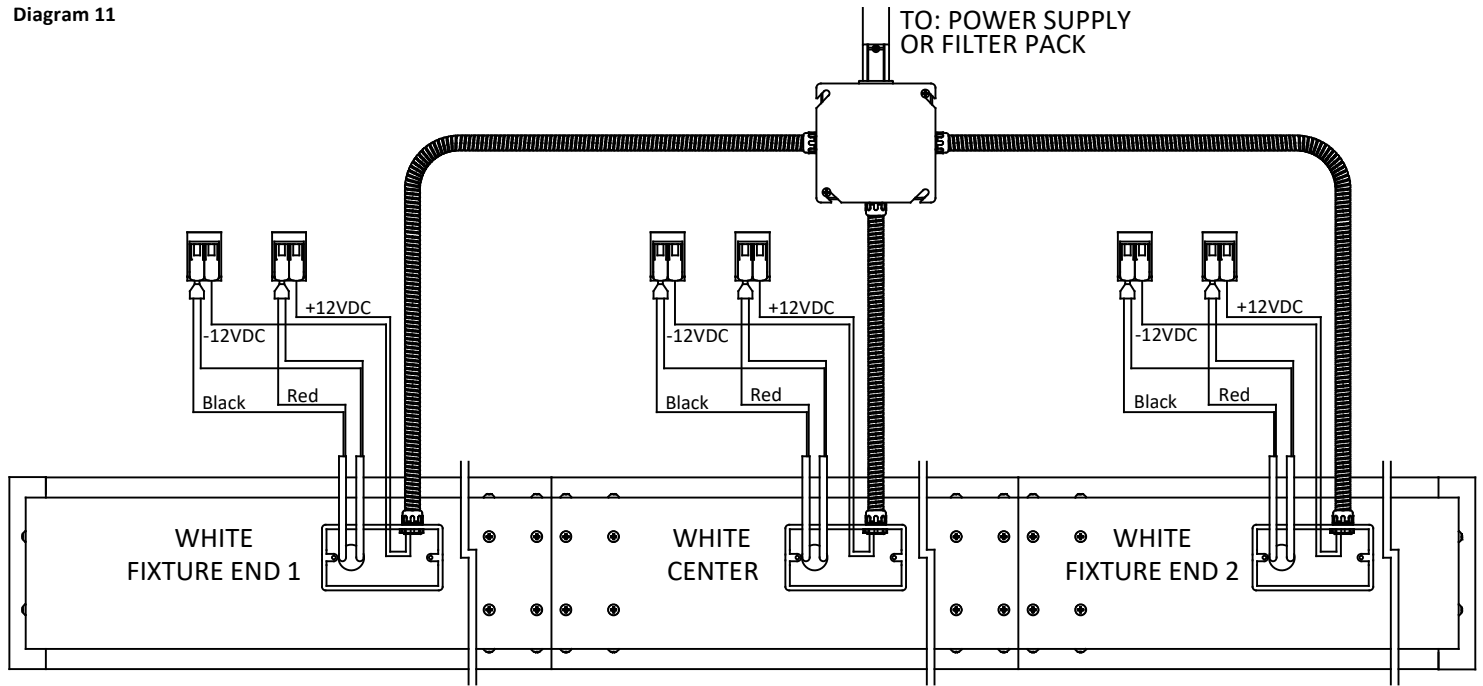
### Step 1:

Using customer supplied 90°C minimum rated wire connectors, terminate the supply wiring through each Slot Light wiring compartment.

#### DC WHITE LIGHT WIRING - Diagram 11

1. Connect + 12 VDC supply lead to the Red lead.
2. Connect - 12 VDC supply lead to the Black lead.

Diagram 11

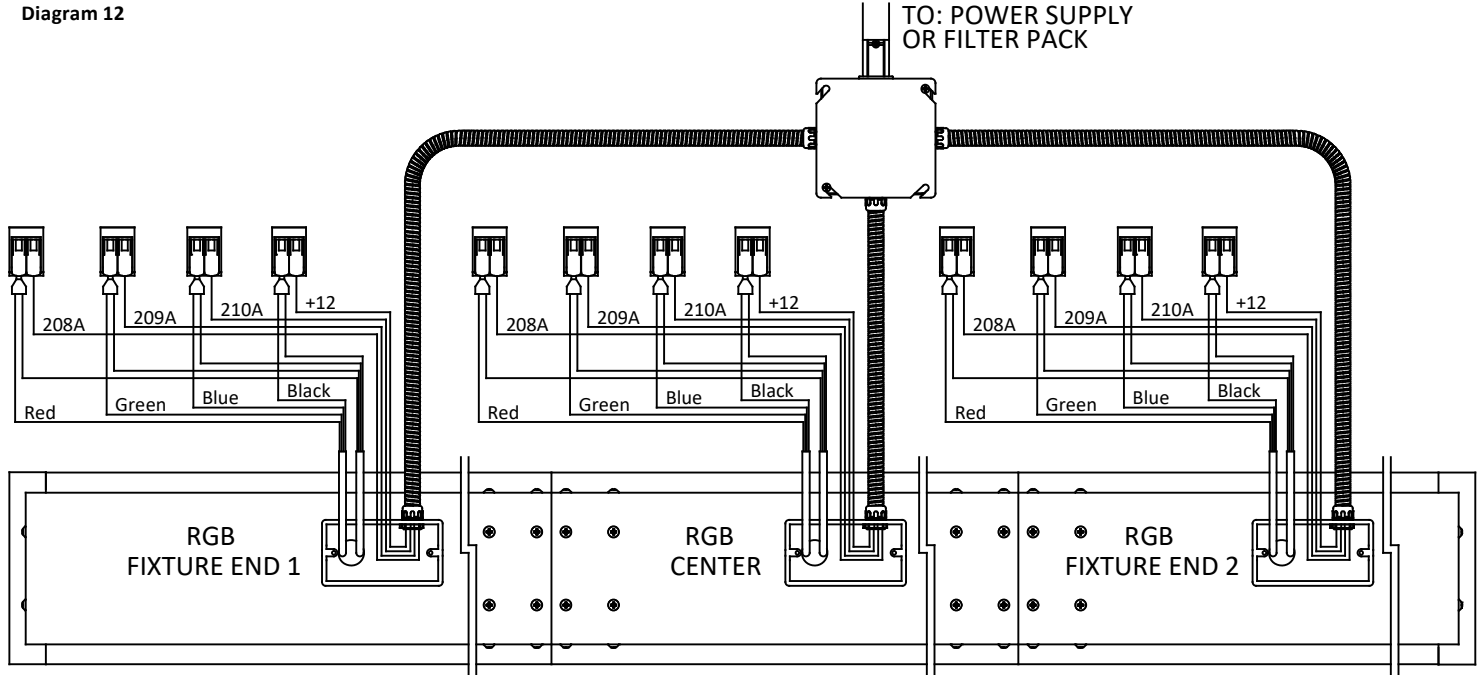


#### DC RGB LIGHT WIRING - Diagram 12

**NOTE: RGB should always use 12 AWG stranded wire.**

1. Connect + 12 supply lead to the Black lead.
2. Connect - 208A supply lead to the Red negative lead.
3. Connect - 209A supply lead to the Green negative lead.
4. Connect - 210A supply lead to the Blue negative lead.

Diagram 12

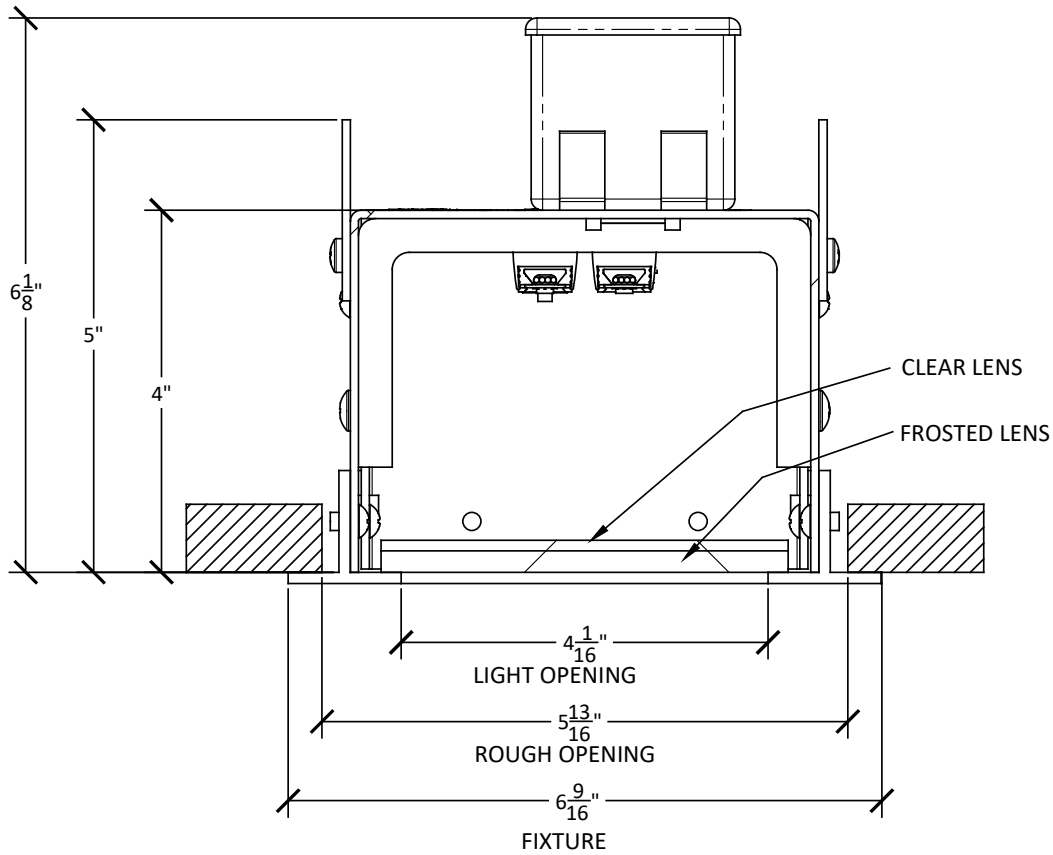


**Step 2:**

After wiring each section, the connection to each Slot luminaire needs to be ran to a common junction box as shown in **Diagram 13**.

**Note:** If using PDC Linear RGB Controller, be sure to wire to site specific wiring diagram for proper current balancing.

**Diagram 13 - Dimensional Overview**



**Directive 2012/19/EU (WEEE - Waste Electrical and Electronic Equipment): Information for Users**

This product complies with EU Directive 2012/19/EU. The crossed out wheeled bin symbol on the article means that at the end of its useful lifespan, this product must not be disposed of with your other household or municipal waste. This product has required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment if not properly disposed. In order to avoid dissemination of those substances in our environment and to diminish the pressure on the natural resources, the user is responsible for delivering the appliance to an appropriate collection facility at the end of its useful lifespan. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information on available collection facilities contact your local waste collection service or the place of purchase.

For informational purposes only. Content is subject to change.