



## C3R

RIGID LED LINEAR ACCENT LIGHTING, LOW-POWER  
REMOTE POWER SYSTEM

## INSTALLATION INSTRUCTIONS

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**WARNING:**

Read and understand these instructions before installing. 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. Turn off main power supply before you start installing C3R.

### ELECTRICAL RATINGS

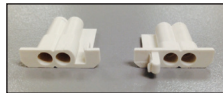
The C3R Rigid is a low voltage system, operating from 12V or 24V LED Driver. 12V is identified with white connectors. 24V is identified with blue connectors.

### HARDWARE PROVIDED

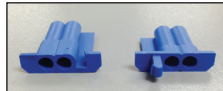
- (a) Power Feed Cable (PFC3-XX-XX-XX)
- (b) LED Driver Power Supply

### OPTIONAL HARDWARE

- (c) Jumper Feed Cable (JFC3-XX-XX-XX)
- (d) Mounting Brackets (C3A-MTGBRKT-SURF or C3A-MTGBRKT-SURF-20)



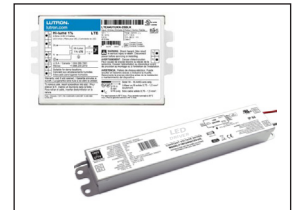
12V White Connectors



24V Blue Connectors



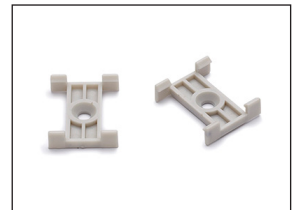
a) PFC



b) Power Supply



c) JFC



d) Mounting Bracket

### DRIVER REMOTE DISTANCE

	Wire Gauge	Maximum Lead Length
12V Driver	18 AWG	10 ft (3m)
	16 AWG	15 ft (4.5m)
	14 AWG*	25 ft (7.5m)
	12 AWG*	40 ft (12m)

	Wire Gauge	Maximum Lead Length
24V Driver	18 AWG	15 ft (4.5m)
	16 AWG	25 ft (7.5m)
	14 AWG*	40 ft (12m)
	12 AWG*	60 ft (18m)

\* Terminal blocks on the drivers accept 18AWG or 16AWG wire. To use wire gauges larger than 16AWG connect up to 3 ft of 18AWG or 16AWG, then connect 14AWG or 12AWG with UL approved wire nuts up to the maximum lead length in the above tables.

## C3R INSTALLATION INSTRUCTIONS

### STEP 1

#### Installing C3R using optional mounting brackets:

Note: 18" maximum spacing between brackets.  
Mark a line on surface designating where edge of fixture will be. Place mounting bracket on edge of marked line and secure with provided screws, **Figure 1**.

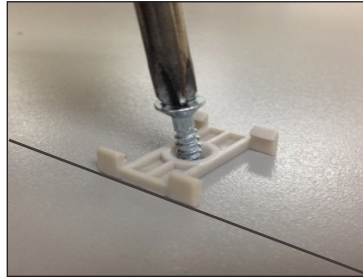


Figure 1

**18" Maximum Spacing Between Mounting Brackets.**

Installing the C3R Rigid on the mounting bracket: Place the fixture over the mounting bracket and push until the hooks on the bracket engage the lip on the fixture, **Figures 2 & 3**.



Figure 2

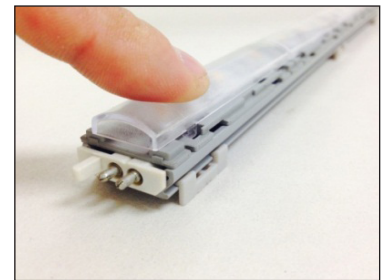


Figure 3

### STEP 2

#### Connecting Power to the C3R Rigid:

Install power supply in approved enclosure in close proximity to luminaire. See page 1 for driver remote distance guidelines.

Connect the female connector on the PFC to the male connector on the C3R Rigid, **Figure 4**.

Connect the other end of the PFC to the output of the corresponding power supply. There is no polarity with this system.

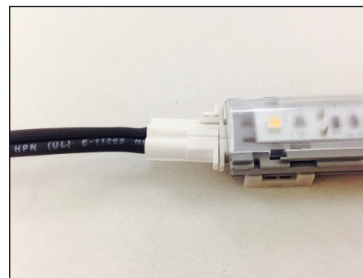


Figure 4

### STEP 3

#### Connecting fixture to fixture:

The C3R can be joined to other C3R fixtures directly by connecting the male and female connectors on the fixture, **Figure 5**, or by using the optional Jumper Feed Cable (JFC), **Figure 6**.



Figure 5

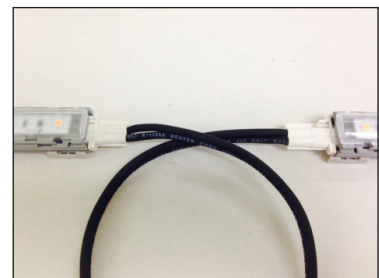


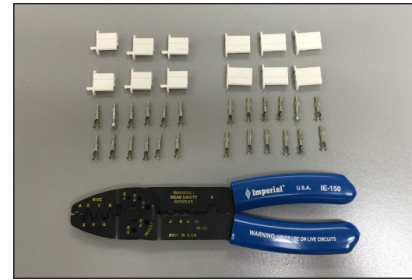
Figure 6

## MODIFICATION INSTRUCTIONS WITH FIELD ADAPTION KIT (SOLD SEPARATELY)

The field adaptation kit is used to shorten the run length of the LED string.

Hardware needed:

C3-FAK-12 or C3-FAK-24, C3-CRIMPERTOOL



(C3-FAK-12 & C3CRIMPERTOOL shown)

### STEP 1

#### Separating the LED Modules:

Using a flathead screw driver, remove the LED modules from track extrusion then break LED module holder at desired point to shorten run and cut wires at the break **Figures 9, 10 & 11**.

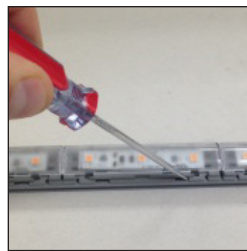


Figure 9

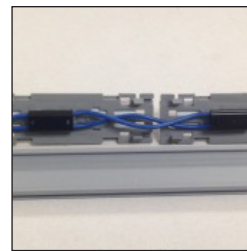


Figure 10

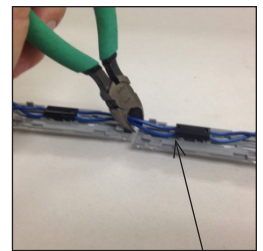


Figure 11

Cut at edge of black pin-retaining clip for end of run dead end

### STEP 2

#### Attaching a Female Connector:

*NOTE: There is no polarity between wires.*

Remove black pin retaining clip and trim wires 1/2" from end of module and strip wire 1/8", **Figure 12**.

Crimp female sockets onto wire, **Figure 13**.

Press female connector onto sockets and re-install black pin retaining clip, **Figure 15**.

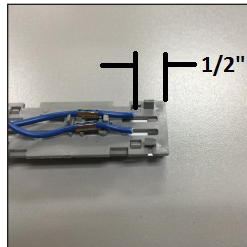


Figure 12

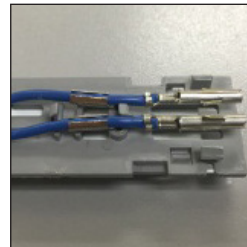


Figure 13



Figure 14

### STEP 3

#### Attaching a Male Connector:

*NOTE: There is no polarity between wires.*

Trim wires 3/8" from end of module and strip wire 1/8", **Figure 15**.

Crimp male pins onto wires as shown, **Figure 16**.

Push pins through male connector so they protrude out as shown in photo, **Figure 17**.

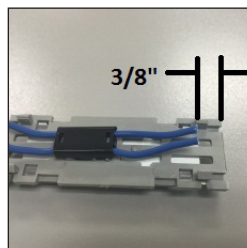


Figure 15

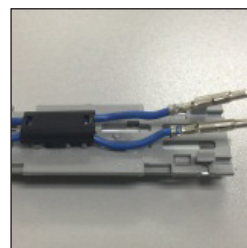


Figure 16

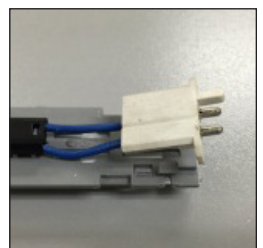


Figure 17

## MODIFICATION INSTRUCTIONS CONTINUED WITH FIELD ADAPTION KIT (SOLD SEPARATELY)

### STEP 4

#### Cutting track extrusion and re-assembling C3R:

Measure length of modified modules and mark track extrusion at exact same length, **Figure 18**.

Press LED modules back into track so they clip into place, **Figure 19**.

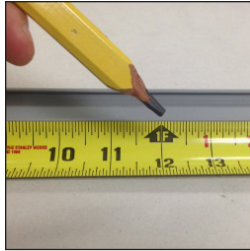


Figure 18

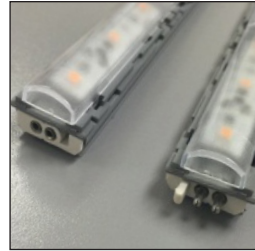


Figure 19

If LED modules were shortened to create end of run, no connector is needed, **Figure 20**.



Figure 20