

# **200 SERIES**

## NEW CONSTRUCTION

TYPE NON-IC / TYPE IC RATED INSTALLATION INSTRUCTIONS

**WARNING:** Read and understand these instructions completely before installation. Disconnect power at circuit breaker or fuse panel before installation. Always allow LED assembly to cool before servicing. To be installed by qualified electricians only. Products should be installed in accordance with these instructions, local electrical codes, and the National Electric Code (NEC). These products may represent a possible shock or fire hazard if improperly installed.

Do not install where insulation or ambient temperatures will exceed maximum values noted in product specifications. See <u>www.8lighting.com</u> for current product specifications.

**NOTE:** Number Eight Lighting fixtures are designed to meet the latest NEC requirements and are listed in full compliance with UL standards. Before attempting installation check your local electrical code which sets the wiring standards and installation requirements for your locality.

#### Save these instructions.

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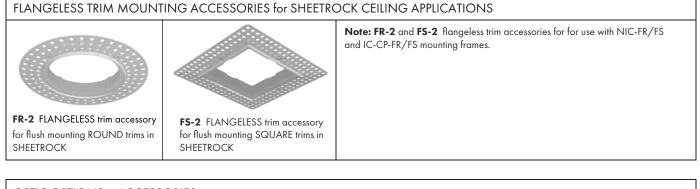
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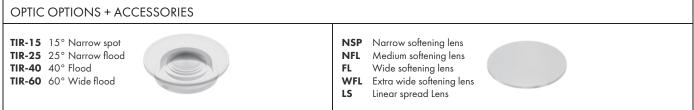
## 200 SERIES NEW CONSTRUCTION COMPONENTS

201 FIXED POSITION LIGHT ENGINE		202 ADJUSTABLE LIGHT ENGINE	
201-R/	201-5/	202-R/	202-S/
201-R-BV	201-S-BV	202-R-BV	202-S-BV

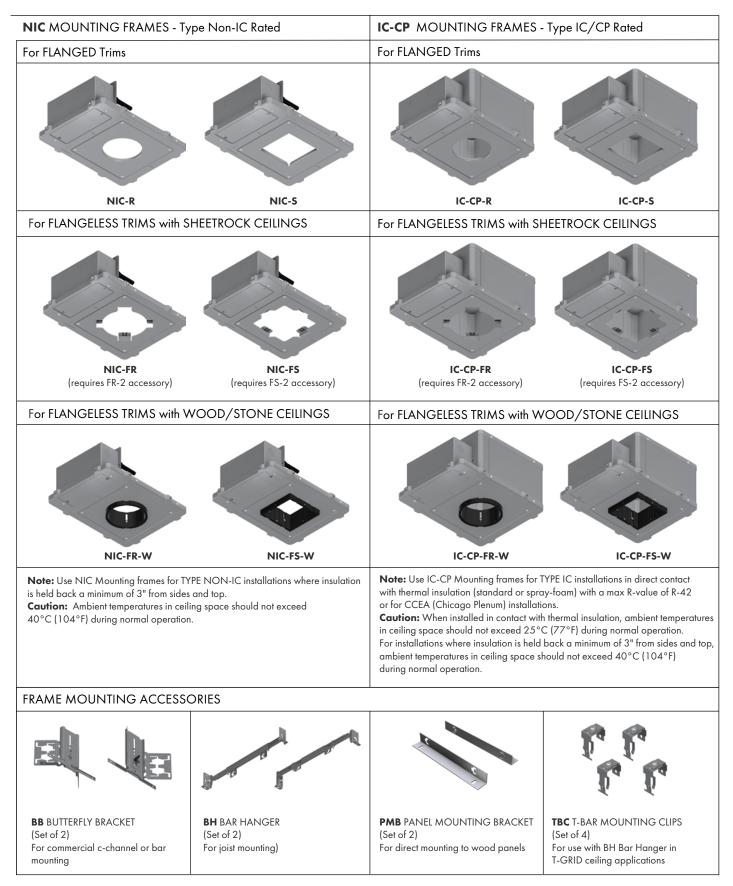
203 WALL WASH LIGHT EN	03 WALL WASH LIGHT ENGINE WALL WASH TRIM PLATES (for 203-R/S Light Engine		<sup>-</sup> 203-R/S Light Engines)
203-R	203-5	FLR-2-WW	FLS-2-WW

FLAT TRIM PLATES (for 201-R/	TRIM PLATES (for 201-R/S and 202-R/S Light Engines) BEVEL TRIM PLATES (for 201-R/S and 202-R/S Light Engi		and 202-R/S Light Engines)
FLR-2	FLS-2	FLR-2-BV	FLS-2-BV



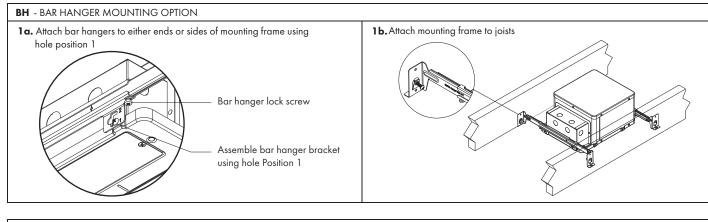


## 200 SERIES NEW CONSTRUCTION COMPONENTS

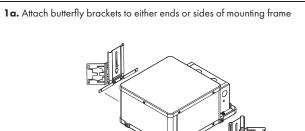


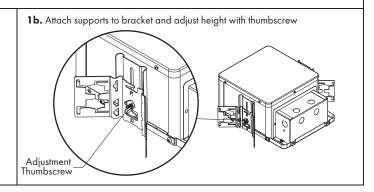
## NEW CONSTRUCTION INSTALLATION

#### STEP 1 - MOUNTING FRAME ASSEMBLY AND INSTALLATION



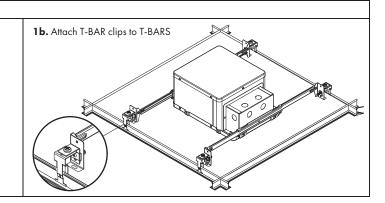






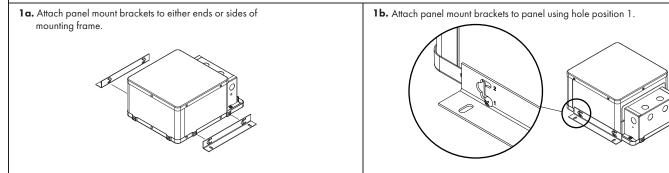
## TBC-BH - T-BAR CLIP + BAR HANGER MOUNTING OPTION

1a. Assemble bar hangers as shown above and attach T-BAR mounting clips



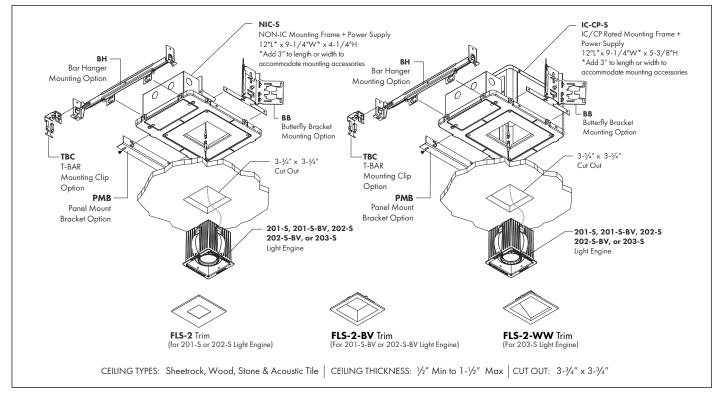
PMB- PANEL MOUNTING BRACKET OPTION

TBC T-Bar Mounting Clip

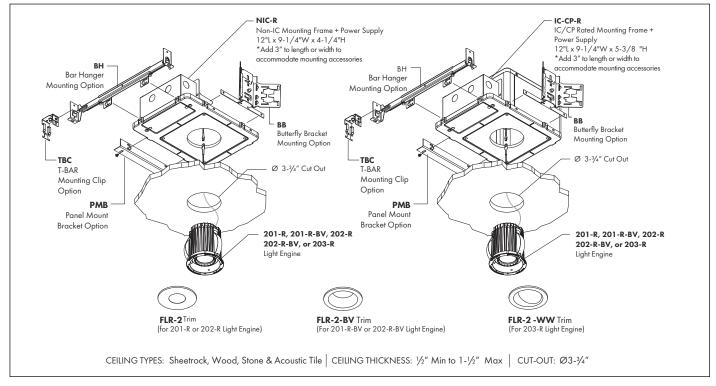


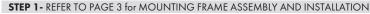
# NEW CONSTRUCTION INSTALLATION - FLANGED TRIMS with SHEETROCK, WOOD STONE & ACCOUSTIC TILE CEILINGS

## NIC-S and IC-CP-S MOUNTING FRAMES



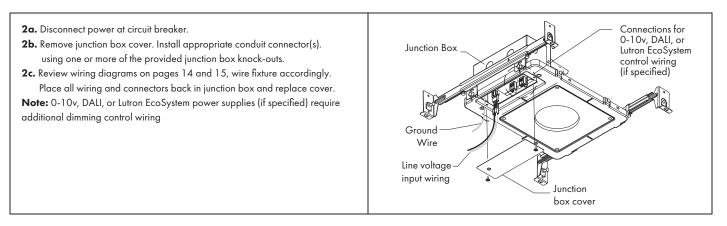
## NIC-R and IC-CP-R MOUNTING FRAMES



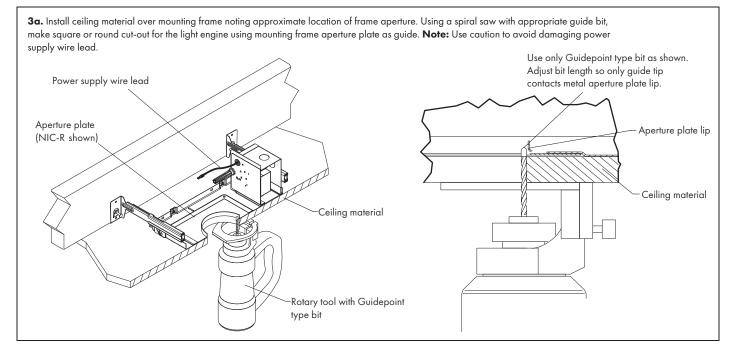


## NEW CONSTRUCTION INSTALLATION - FLANGED TRIMS with SHEETROCK CEILINGS

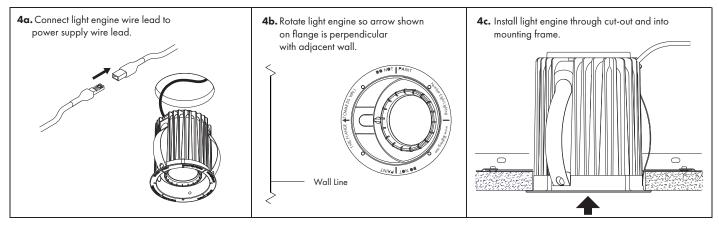
#### **STEP 2** – FIXTURE WIRING



#### STEP 3 - CEILING CUT-OUT

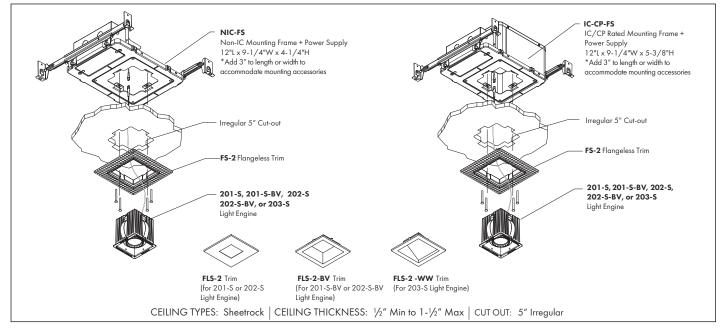


#### **STEP 4** – LIGHT ENGINE WIRING AND INSTALLATION

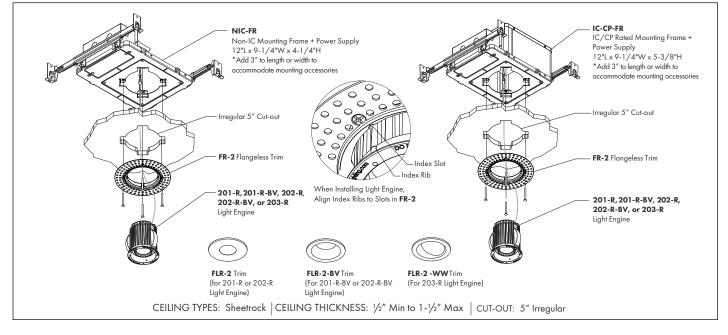


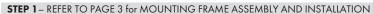
4d. Install trim plate (see Page 13).

## NIC-FS and IC-CP-FS MOUNTING FRAMES



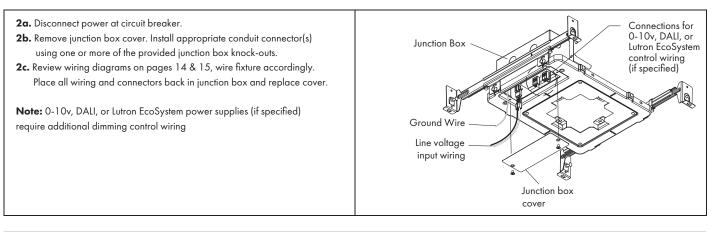
## NIC-FR and IC-CP-FR MOUNTING FRAMES



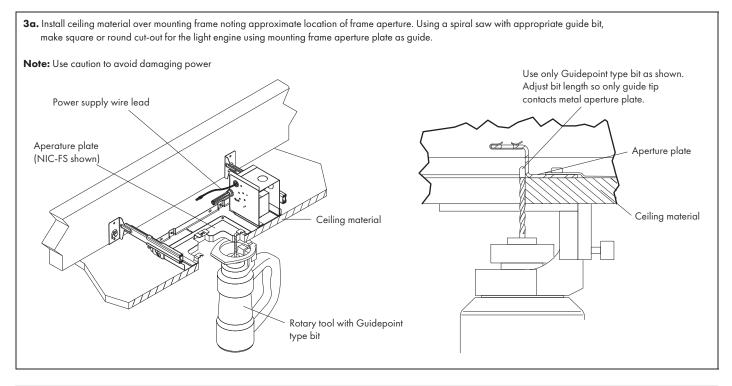


## NEW CONSTRUCTION INSTALLATION - FLANGELESS TRIMS with SHEETROCK CEILINGS

#### **STEP 2** – FIXTURE WIRING



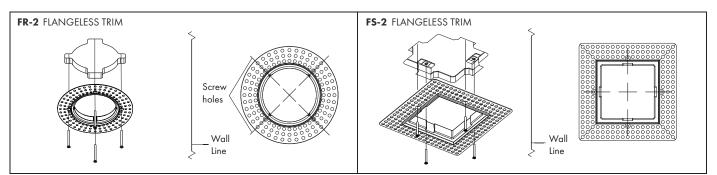
#### STEP 3 - CEILING CUT-OUT



#### **STEP 4**- FLANGELESS TRIM INSTALLATION

**4a.** Remove mud shield and save. Install FS-2 or FR-2 flangeless trim to mounting frame through cut-out using 4x FHMS 8-32 screws provided. **Note:** do not tighten screws until Step 4b.

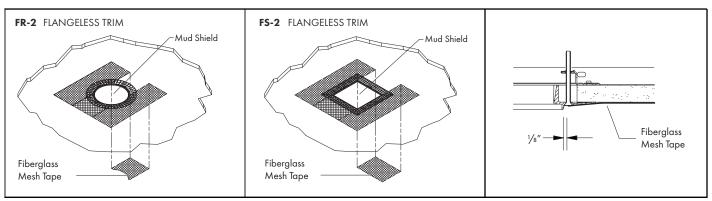
4b. Rotate trim to be aligned with adjacent walls or fixtures as shown below. Note: hand tighten trim screws. Power driver is not recommended.



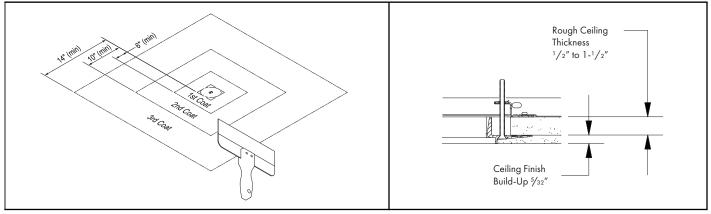
#### STEP 4 – FLANGELESS TRIM INSTALLATION (CONTINUED)

#### 4c. Reinstall mud shield

4d. Apply 6" wide fiberglass mesh tape over perforated metal trim flange leaving 1/8" cut-out around the outside edge of the raised trim lip and extending over sheetrock.



4e. Apply ceiling finish around FR-2 or FS-2 flangeless trim. Note: Minimum Level 4 or 5 finish is recommended.



**4f.** First Coat - Apply USG "Durabond" setting-type joint compound for embedding the perforated flange and fiberglass mesh tape following the manufacturer's instructions and warnings for outside corners and trim. The compound should extend a minimum of 6" from the trim edge. Allow first coat to dry completely and remove any high spots by lightly sanding before applying the second coat.

**4g.** Scond Coat - Apply USG general purpose ready-mixed joint compound flush to finished edge of trim, floating outward following the manufacturer's instructions and warnings. The compound should extend a minimum of 10" from the trim edge. Allow second coat to dry completely and remove any high spots by lighting sanding before applying the third coat.

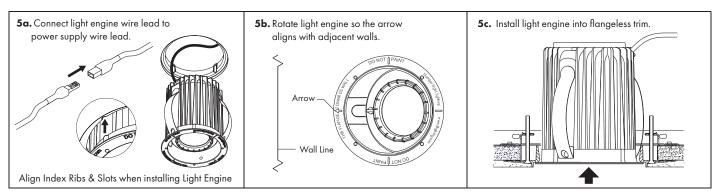
4h. Third Coat - Apply USG ready-mixed finishing joint compound flush to finished edge of trim, floating outward following the manufacturer's instructions and warnings. The compound should extend a minimum of 14" from the trim edge. Allow third coat to dry completely before sanding.
4i. Sand third coat with fine grit sandpaper until mud shield and finished metal edge of trim lip are barely exposed.

**4j**. Remove mud shield.

**4k.** Remove excess material from inside edges of trim.

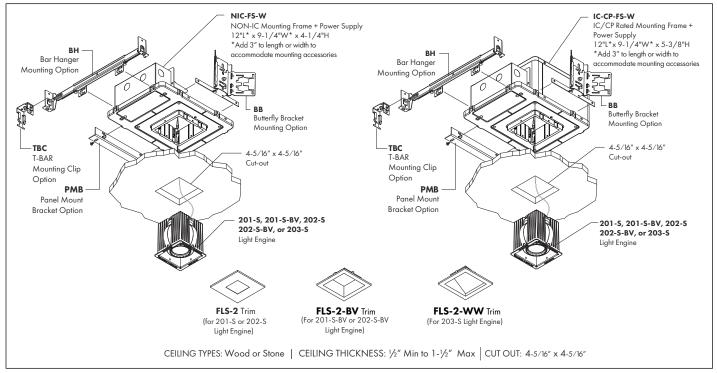
41. Apply primer (USG Sheetrock or equivalent) and paint following the paint manufacturer's instructions and warnings.

Caution: Do not paint inside of FR-2 OR FS-2 trim surface. STEP 5 – LIGHT ENGINE WIRING AND INSTALLATION

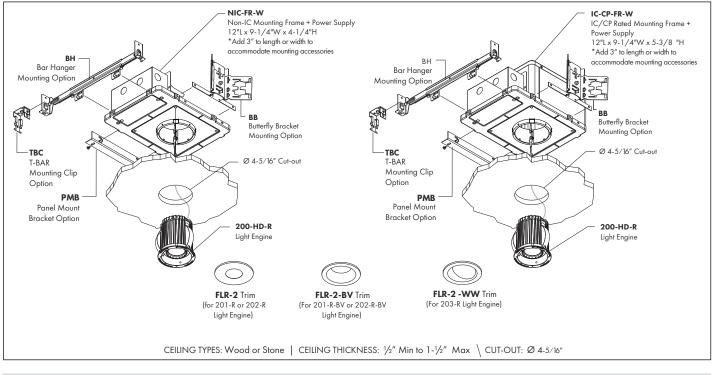


5d. Install trim plate (see Page 13).

## NIC-FS-W and IC-CP-FS-W MOUNTING FRAMES



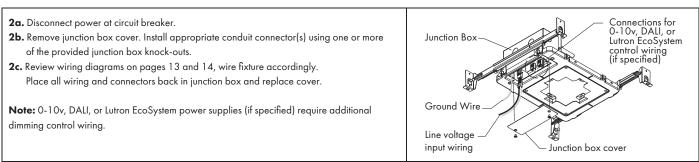
## NIC-FR-W and IC-CP-FR-W MOUNTING FRAMES



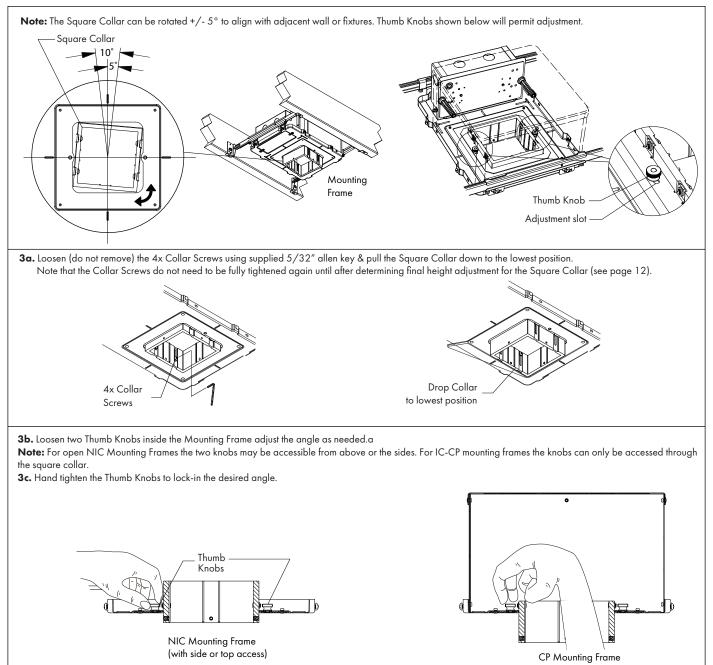
STEP 1 - REFER TO PAGE 3 for MOUNTING FRAME ASSEMBLY AND INSTALLATION

## NEW CONSTRUCTION INSTALLATION - FLANGELESS TRIMS with WOOD/STONE CEILINGS

#### STEP 2- FIXTURE WIRING



#### STEP 3 (OPTIONAL) - SQUARE COLLAR ANGLE ADJUSTMENT

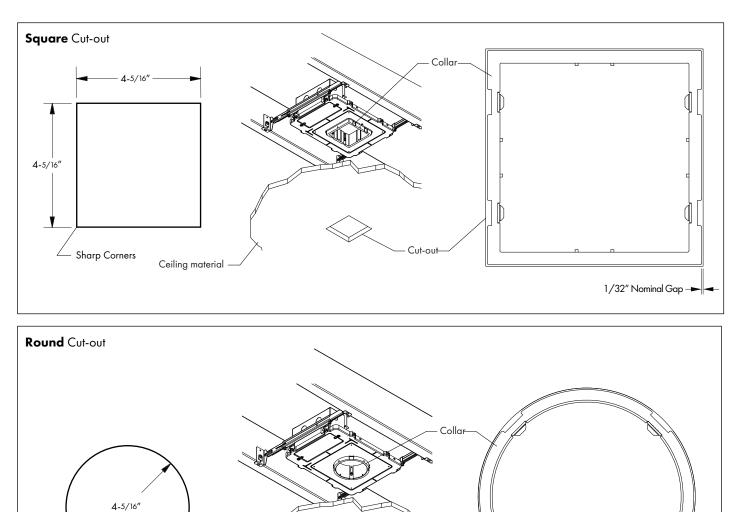


## NEW CONSTRUCTION INSTALLATION - FLANGELESS TRIMS with WOOD/STONE CEILINGS

#### STEP 4 - CEILING CUT-OUT

Ceiling material

4a. Ceiling cut-out must be precisely located & oriented to Square or Round collar location. All dimensions are +/- 1/32".



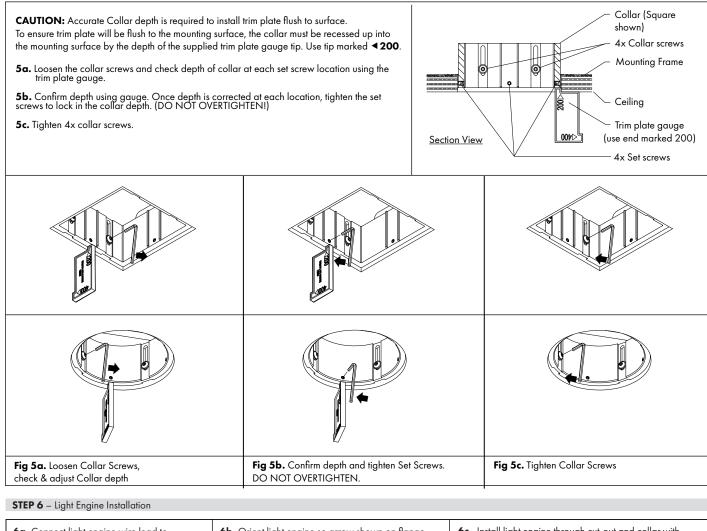
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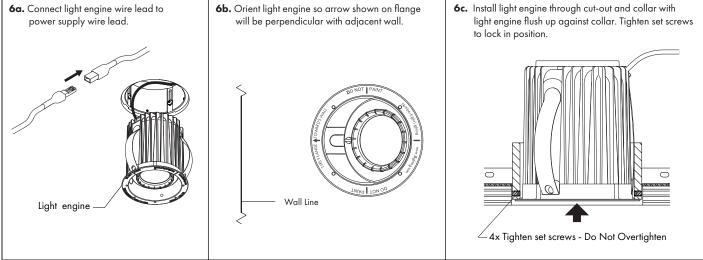
Cut-out

1/32" Nominal Gap -

## NEW CONSTRUCTION INSTALLATION - FLANGELESS TRIMS with WOOD/STONE CEILINGS

#### **STEP 5** – FLANGELESS TRIM COLLAR ADJUSTMENT





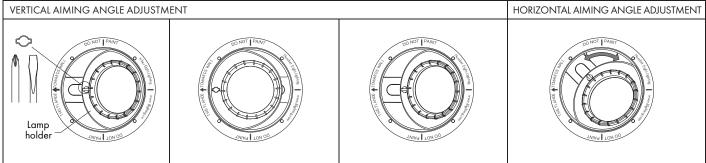
6d. Install trim plate (see page 13).

## **AIMING & ADJUSTMENT**

STEP 1 - VERTICAL AND HORIZONTAL AIMING AND ADJUSTMENT (Adjustable light engine models 202-R/S or 202-R/S-BV only)

1b. Adjust vertical aiming by sliding the lamp holder to desired angle (0-30°)

1a. Adjust the horizontal aiming by rotating the lamp holder & housing to desired angle (0-360°)

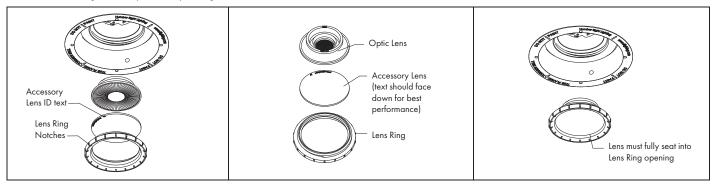


#### STEP 2 - LENS AND ACCESSORY REMOVAL AND REPLACEMENT

2a. Remove the lens ring from the lamp holder by unscrewing counter-clockwise.

2b. Remove optic lens (and accessory lens if used) by gently pressing upward on the center while holding the lens ring.
2c. Install desired optic (and accessory lens if used) by aligning the optic lens in lens ring.

2d. Reinstall lens ring on to lamp holder by turning clockwise.



## TRIM PLATE FINISHING & INSTALLATION

#### STEP 1. (OPTIONAL) - PAINT TRIM PLATE

1a. Remove the trim plate from packaging.

1b. Clean and prepare exposed surfaces for painting following the paint manufacturers instructions and warnings.

1c. Paint as desired using a "dry roller" or light spray application.

Note: If applying paint by spray method, mask trim plate lens (If installed).

Caution: Paint must be rated for minimum 90 C (150 F). Do not paint trim plate while installed in fixture. Do not paint backside of trim plate or safety cable.

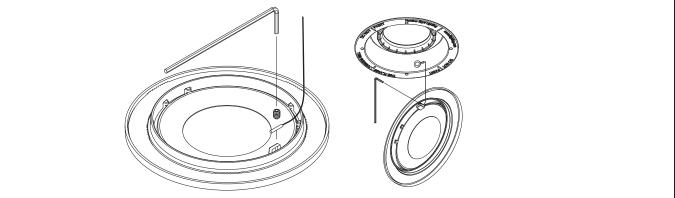
Do not paint edges of trim plate if using with FR-2 or FS-2 flangeless trim.

1d. Allow trim plate to dry completely before installing.

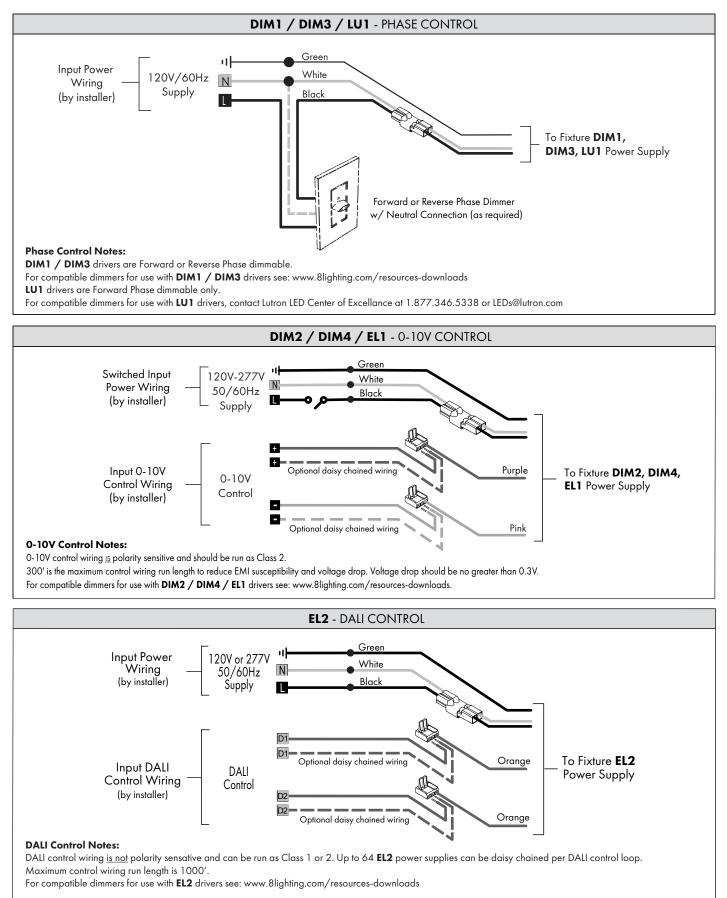
#### **STEP 2** – INSTALL TRIM PLATE

2a. Loosen set screw in trim plate to accept safety cable.

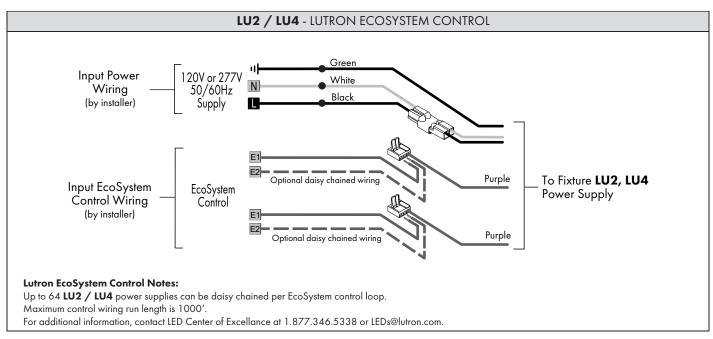
2b. Extend trim safety cable out of housing and insert ferrule at end of the cable under set screw from side and secure with hex key.



### WIRING DIAGRAMS



### WIRING DIAGRAMS continued





## 8lighting.com

Number Eight Lighting Company, 526 Portal Street, Cotati, CA 94931 Phone: (707) 794-0888 Fax: (707) 795-4379 Email: customerservice@8lighting.com