N°
ei8ht
LIGHTING
®

200 SERIES
200-HD NEW CONSTRUCTION
INSTALLATION INSTRUCTIONS

SCAN QR CODE FOR 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 www.8lighting.com for current product specifications.
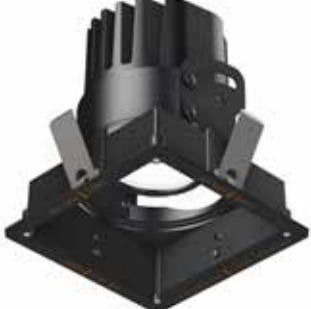
NOTE: Number Eight Lighting fixtures are designed to meet the latest NEC requirements and are listed in full compliance with UL standards. Before attempting installation check and understand your local electrical code which sets the wiring standards and installation requirements for your locality.
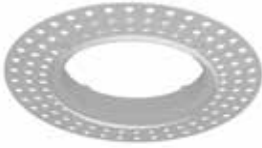
Save these instructions.

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200-HD-R	200-HD-S

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FLR-2	FLS-2	FLR-2-BV	FLS-2-BV

WALL WASH TRIM PLATES (for 200-HD-R/S Light Engines)		
FLR-2-WW	FLS-2-WW	

FLANGELESS TRIM MOUNTING ACCESSORIES for SHEETROCK CEILING APPLICATIONS

FR-2 FLANGELESS trim accessory for flush mounting ROUND trims in SHEETROCK

FS-2 FLANGELESS trim accessory for flush mounting SQUARE trims in SHEETROCK

Note: FR-2 and **FS-2** flangeless trim accessories for use with NIC-FR/FS and IC-CP-FR/FS mounting frames.

OPTIC OPTIONS + ACCESSORIES

TIR-15 15° Narrow spot
TIR-25 25° Narrow flood
TIR-40 40° Flood
TIR-60 60° Wide flood

NSP Narrow softening lens
NFL Medium softening lens
FL Wide softening lens
WFL Extra wide softening lens
LS Linear spread Lens

200-HD SERIES NEW CONSTRUCTION COMPONENTS

NIC MOUNTING FRAMES - Type Non-IC Rated		IC-CP MOUNTING FRAMES - Type IC/CP Rated	
For FLANGED Trims		**For FLANGED Trims**	
NIC-R	**NIC-S**	**IC-CP-R**	**IC-CP-S**
For FLANGELESS TRIMS with SHEETROCK CEILINGS		**For FLANGELESS TRIMS with SHEETROCK CEILINGS**	
NIC-FR (requires FR-2 accessory)	**NIC-FS** (requires FS-2 accessory)	**IC-CP-FR** (requires FR-2 accessory)	**IC-CP-FS** (requires FS-2 accessory)
For FLANGELESS TRIMS with WOOD/STONE CEILINGS		**For FLANGELESS TRIMS with WOOD/STONE CEILINGS**	
NIC-FR-W	**NIC-FS-W**	**IC-CP-FR-W**	**IC-CP-FS-W**

Note: Use NIC Mounting frames for TYPE NON-IC installations where insulation is held back a minimum of 3" from sides and top.
Caution: Ambient temperatures in ceiling space should not exceed 40°C (104°F) during normal operation.

Note: Use IC-CP Mounting frames for TYPE IC installations in direct contact with thermal insulation (standard or spray-foam) with a max R-value of R-42 or for CCEA (Chicago Plenum) installations.
Caution: When installed in contact with thermal insulation, ambient temperatures in ceiling space should not exceed 25°C (77°F) during normal operation.
For installations where insulation is held back a minimum of 3" from sides and top, ambient temperatures in ceiling space should not exceed 40°C (104°F) during normal operation.

FRAME MOUNTING ACCESSORIES

BB BUTTERFLY BRACKET (Set of 2) For commercial c-channel or bar mounting	**BH** BAR HANGER (Set of 2) For joist mounting)	**PMB** PANEL MOUNTING BRACKET (Set of 2) For direct mounting to wood panels	**TBC** T-BAR MOUNTING CLIPS (Set of 4) For use with BH Bar Hanger in T-GRID ceiling applications

NEW CONSTRUCTION INSTALLATION - MOUNTING FRAME ASSEMBLY

BH - BAR HANGER MOUNTING OPTION

1a. Attach bar hangers to either ends or sides of mounting frame using hole position 1

Bar hanger lock screw

Assemble bar hanger bracket using hole Position 1
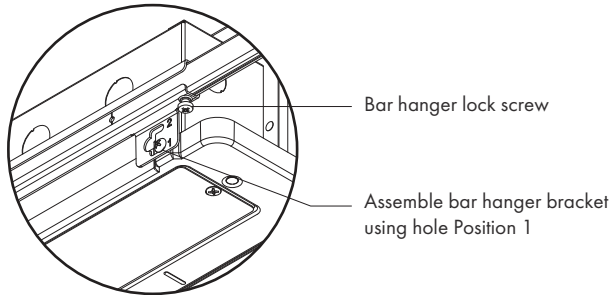
1b. Attach mounting frame to joists
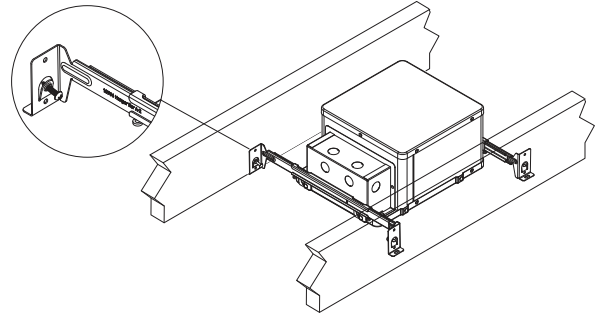
BB - BUTTERFLY BRACKET MOUNTING OPTION

1a. Attach butterfly brackets to either ends or sides of mounting frame
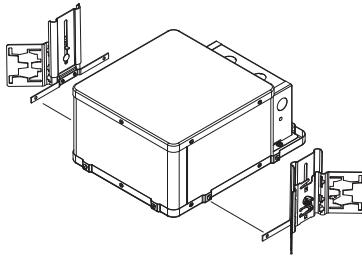
1b. Attach supports to bracket and adjust height with thumbscrew

Adjustment Thumbscrew
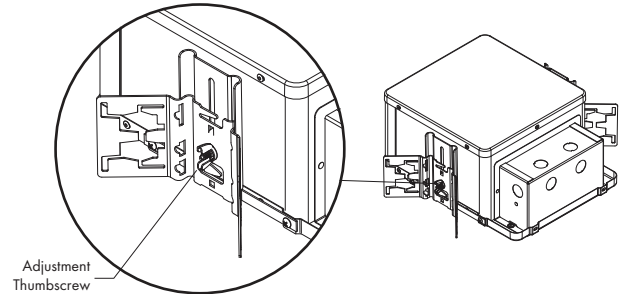
TBC-BH - T-BAR CLIP + BAR HANGER MOUNTING OPTION

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

TBC T-Bar Mounting Clip
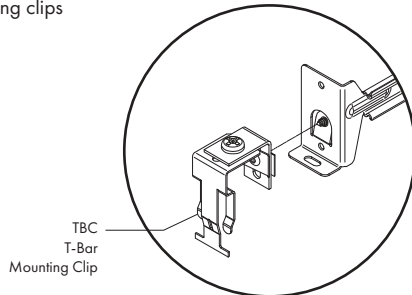
1b. Attach T-BAR clips to T-BARS
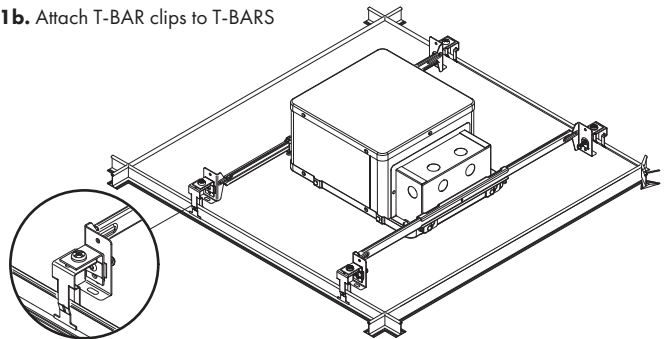
PMB - PANEL MOUNTING BRACKET OPTION

1a. Attach panel mount brackets to either ends or sides of mounting frame.
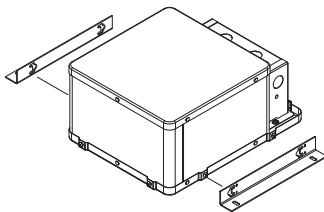
1b. Attach panel mount brackets to panel using hole postion 1.
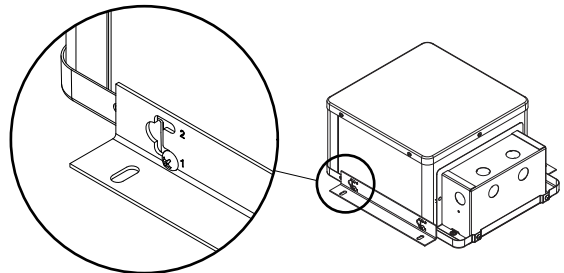
NEW CONSTRUCTION INSTALLATION - FLANGED TRIMS

NIC-S and IC-CP-S MOUNTING FRAMES

BH
Bar Hanger
Mounting Option

NIC-S
NON-IC Mounting Frame + Power Supply
12"L* x 9-1/4"W* x 4-1/4"H
*Add 3" to length or width to
accommodate mounting accessories

IC-CP-S
IC-CP Rated Mounting Frame +
Power Supply
12"L*x 9-1/4"W* x 5-3/8"H
*Add 3" to length or width to
accommodate mounting accessories

BH
Bar Hanger
Mounting Option

TBC
T-BAR
Mounting Clip
Option

BB
Butterfly Bracket
Mounting Option

BB
Butterfly Bracket
Mounting Option

PMB
Panel Mount
Bracket Option

3-¾" x 3-¾"
Cut Out

TBC
T-BAR
Mounting Clip
Option

3-¾" x 3-¾"
Cut Out

PMB
Panel Mount
Bracket Option

200-HD-S
Light Engine

200-HD-S
Light Engine

FLS-2 Trim
(for 200-HD-S Light Engine)

FLS-2-BV Trim
(For 200-HD-S Light Engine)

FLS-2-WW Trim
(For 200-HD-S Light Engine)

CEILING TYPES: Sheetrock, Wood, Stone & Acoustic Tile │ CEILING THICKNESS: ½" Min to 1-½" Max │ CUT OUT: 3-¾" x 3-¾"

NIC-R and IC-CP-R MOUNTING FRAMES

NIC-R
Non-IC Mounting Frame + Power Supply
12"L x 9-1/4"W x 4-1/4"H
*Add 3" to length or width to
accommodate mounting accessories

IC-CP-R
IC-CP Rated Mounting Frame +
Power Supply
12"L x 9-1/4"W x 5-3/8 "H
*Add 3" to length or width to
accommodate mounting accessories

BH
Bar Hanger
Mounting Option

BH
Bar Hanger
Mounting Option

BB
Butterfly Bracket
Mounting Option

BB
Butterfly Bracket
Mounting Option

TBC
T-BAR
Mounting Clip
Option

Ø 3-¾" Cut Out

TBC
T-BAR
Mounting Clip
Option

Ø 3-¾" Cut Out

PMB
Panel Mount
Bracket Option

PMB
Panel Mount
Bracket Option

200-HD-R
Light Engine

200-HD-R
Light Engine

FLR-2 Trim
(for 200-HD-R Light Engine)

FLR-2-BV Trim
(For 200-HD-R Light Engine)

FLR-2 -WW Trim
(For 200-HD-R Light Engine)

CEILING TYPES: Sheetrock, Wood, Stone & Acoustic Tile │ CEILING THICKNESS: ½" Min to 1-½" Max │ CUT OUT: Ø3-¾"

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

NEW CONSTRUCTION INSTALLATION - FLANGED TRIMS

STEP 2 – FIXTURE WIRING

2a. Disconnect power at circuit breaker.

2b. Remove junction box cover. Install appropriate conduit connector(s). using one or more of the provided junction box knock-outs.

2c. Review wiring diagrams on pages 15 and 16, wire fixture accordingly. Place all wiring and connectors back in junction box and replace cover.

Note: 0-10v, DALI, or Lutron EcoSystem power supplies (if specified) require additional dimming control wiring

Junction Box

Connections for 0-10v, DALI, or Lutron EcoSystem control wiring (if specified)

Ground Wire

Line voltage input wiring

Junction box cover

STEP 3 – CEILING CUT-OUT

3a. Install ceiling material over mounting frame noting approximate location of frame aperture. Using a spiral saw with appropriate guide bit, make square or round cut-out for the light engine using mounting frame aperture plate as a guide. **Note:** Use caution to avoid damaging power supply wire lead.

Power supply wire lead

Aperture plate (NIC-R shown)

Ceiling material

Rotary tool with Guidepoint type bit

Use ony Guidepoint type bit as shown. Adjust bit length so only guide tip contacts metal aperture plate lip.

Aperture plate lip

Ceiling material

STEP 4 – LIGHT ENGINE WIRING AND INSTALLATION

4a. Connect light engine wire lead to power supply wire lead.

Cut-out

Push in Retention Springs

Retention Spring set screws
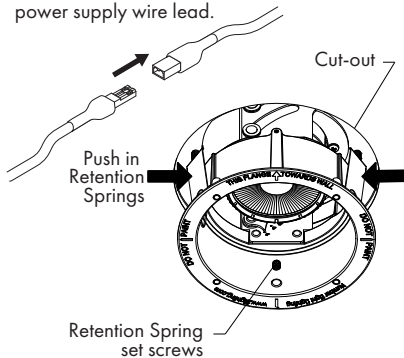
4b. Rotate light engine so arrow shown on flange is perpendicular

DO NOT PAINT

Arrow

Wall Line

4c. Install light engine through cut-out and flush to ceiling

Tighten Retention Spring set screws to Mounting Frame **Caution: Do Not Overtighten!**
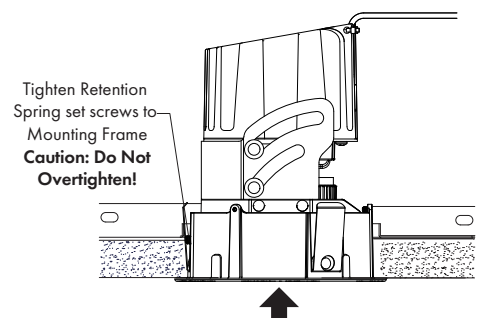
4d. Install trim plate (see Page 14).

NEW CONSTRUCTION INSTALLATION - FLANGELESS TRIMS and SHEETROCK CEILINGS

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

NIC-FS
Non-IC Mounting Frame + Power Supply
12"L x 9-1/4"W x 4-1/4"H
*Add 3" to length or width to
accommodate mounting accessories

Irregular 5" Cut Out

FS-2 Flangeless Trim

200-HD-S Light Engine

IC-CP-FS
IC/CP Rated Mounting Frame +
Power Supply
12"L x 9-1/4"W x 5-3/8"H
*Add 3" to length or width to
accommodate mounting accessories

Irregular 5" Cut Out

FS-2 Flangeless Trim

200-HD-S Light Engine

FLS-2 Trim
(for 200-HD-S
Light Engine)

FLS-2-BV Trim
(For 200-HD-S
Light Engine)

FLS-2 -WW Trim
(For 200-HD-S
Light Engine)

CEILING TYPES: Sheetrock │ CEILING THICKNESS: ½" Min to 1-½" Max │ CUT OUT: 5" Irregular

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

NIC-FR
Non-IC Mounting Frame + Power Supply
12"L x 9-1/4"W x 4-1/4"H
*Add 3" to length or width to
accommodate mounting accessories

Irregular 5" Cut Out

FR-2 Flangeless Trim

200-HD-R
Light Engine

Index Slot
Index Rib
When Installing Light Engine,
Align Index Ribs to Slots in **FR-2**

IC-CP-FR
IC/CP Rated Mounting Frame +
Power Supply
12"L x 9-1/4"W x 5-3/8"H
*Add 3" to length or width to
accommodate mounting accessories

Irregular 5" Cut Out

FR-2 Flangeless Trim

200-HD-R
Light Engine

FLR-2 Trim
(for 200-HD-R
Light Engine)

FLR-2-BV Trim
(For 200-HD-R
Light Engine)

FLR-2 -WW Trim
(For 200-HD-R
Light Engine)

CEILING TYPES: Sheetrock │ CEILING THICKNESS: ½" Min to 1-½" Max │ CUT OUT: 5" Irregular

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

NEW CONSTRUCTION INSTALLATION - FLANGELESS TRIMS with SHEETROCK CEILINGS
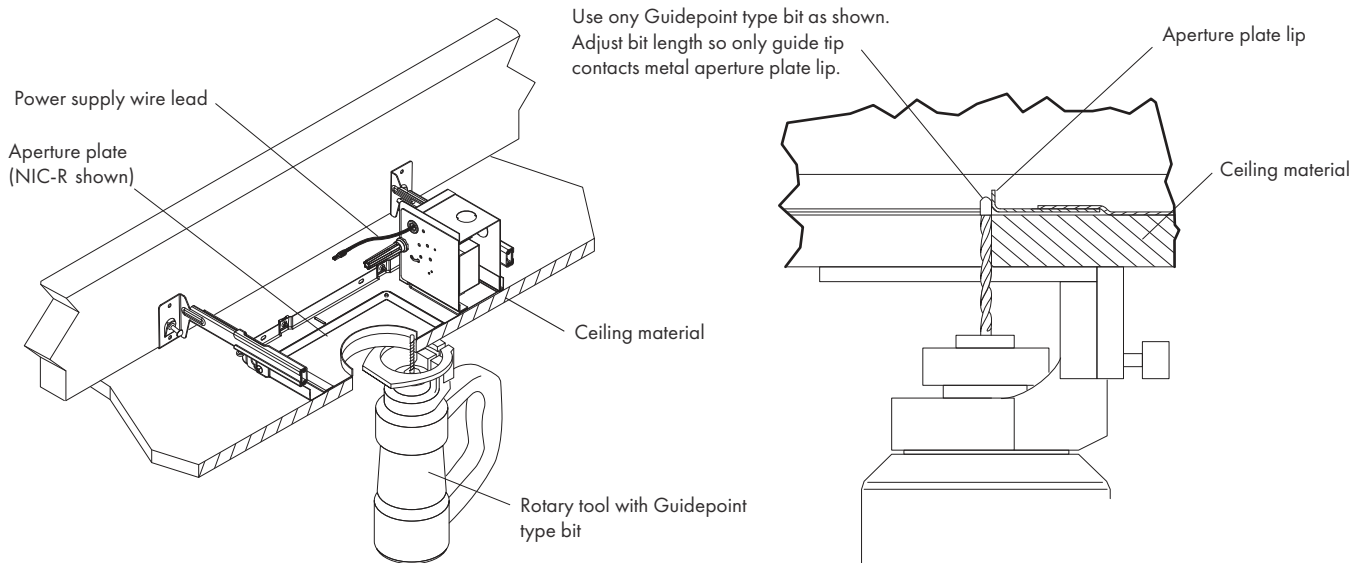
– FIXTURE WIRING

2a. Disconnect power at circuit breaker.

2b. Remove junction box cover. Install appropriate conduit connector(s). using one or more of the provided junction box knock-outs.

2c. Review wiring diagrams on **Pages 15** and **16**, wire fixture accordingly. Place all wiring and connectors back in junction box and replace cover.

Note: 0-10v, DALI, or Lutron EcoSystem power supplies (if specified) require additional dimming control wiring

Junction Box

Connections for 0-10v, DALI, or Lutron EcoSystem control wiring (if specified)

Ground Wire

Line voltage input wiring

Junction box cover

STEP 3 – CEILING CUT-OUT

3a. Install ceiling material over mounting frame noting approximate location of frame aperture. Using a spiral saw with appropriate guide bit, make square or round cut-out for the light engine using mounting frame aperture plate as guide. **Note:** Use caution to avoid damaging power supply wire lead.
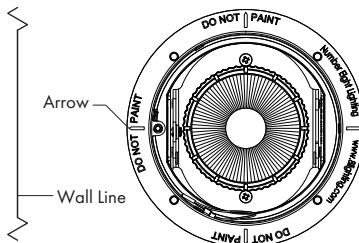
Power supply wire lead

Aperature plate (NIC-FS shown)

Ceiling material

Rotary tool with Guidepoint type bit

Use ony Guidepoint type bit as shown. Adjust bit length so only guide tip contacts metal aperture plate lip.

Aperture plate lip
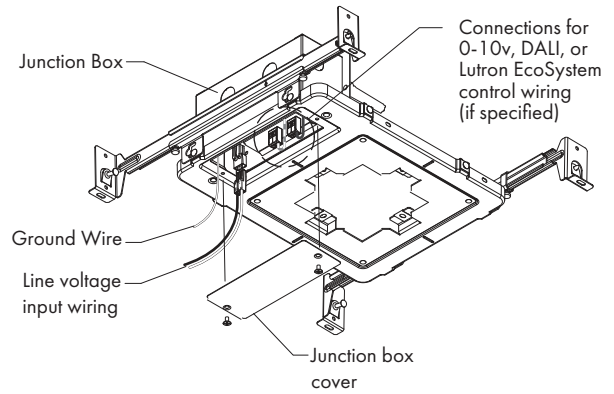
Aperature plate

Ceiling material
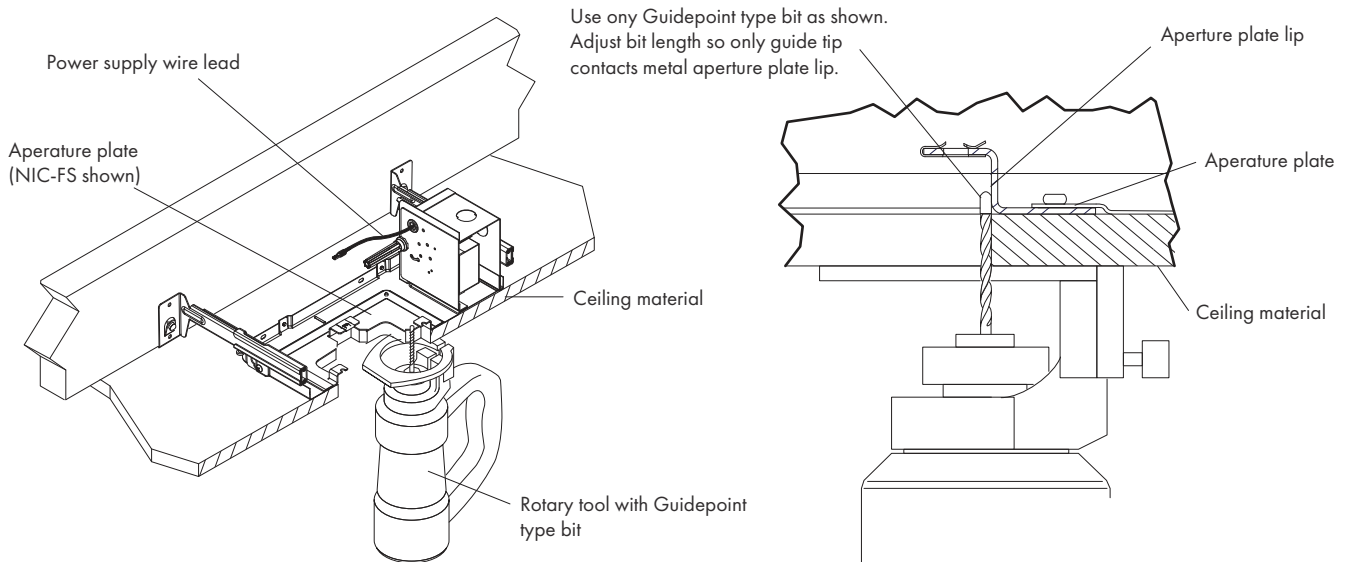
STEP 4 – FLANGELESS TRIM INSTALLATION

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.

FR-2 FLANGELESS TRIM

Ceiling cut-out

FR-2 Trim

Screw holes

Wall Line

Mud shield

FS-2 FLANGELESS TRIM

Ceiling cut-out

Screw holes

FS-2 Trim

Wall Line
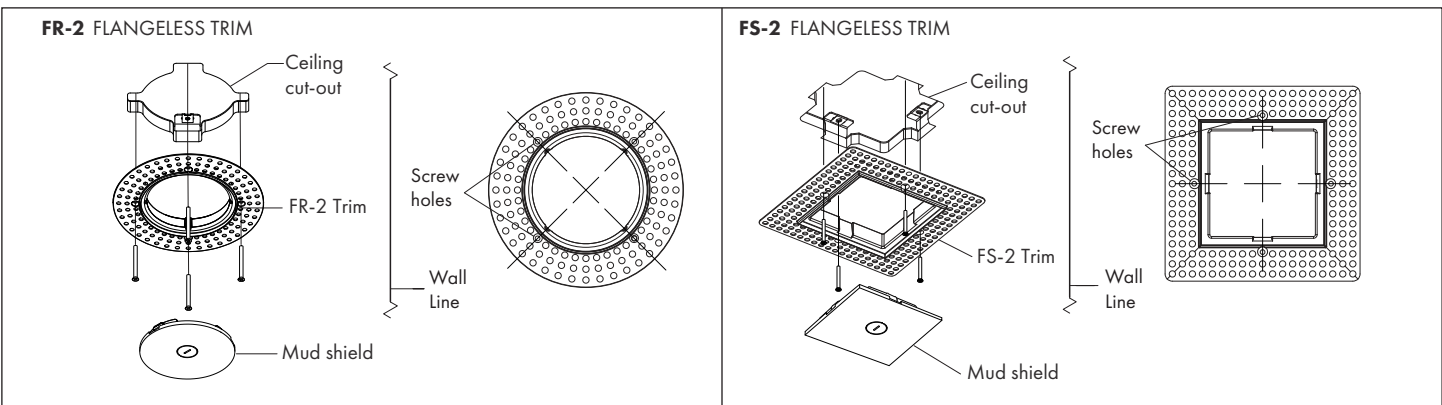
Mud shield

NEW CONSTRUCTION INSTALLATION - FLANGELESS TRIMS with SHEETROCK CEILINGS

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.

FR-2 FLANGELESS TRIM — Mud Shield

Fiberglass Mesh Tape

FS-2 FLANGELESS TRIM — Mud Shield

Fiberglass Mesh Tape

1/8" — Fiberglass Mesh Tape

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

14" (min) 10" (min) 6" (min)

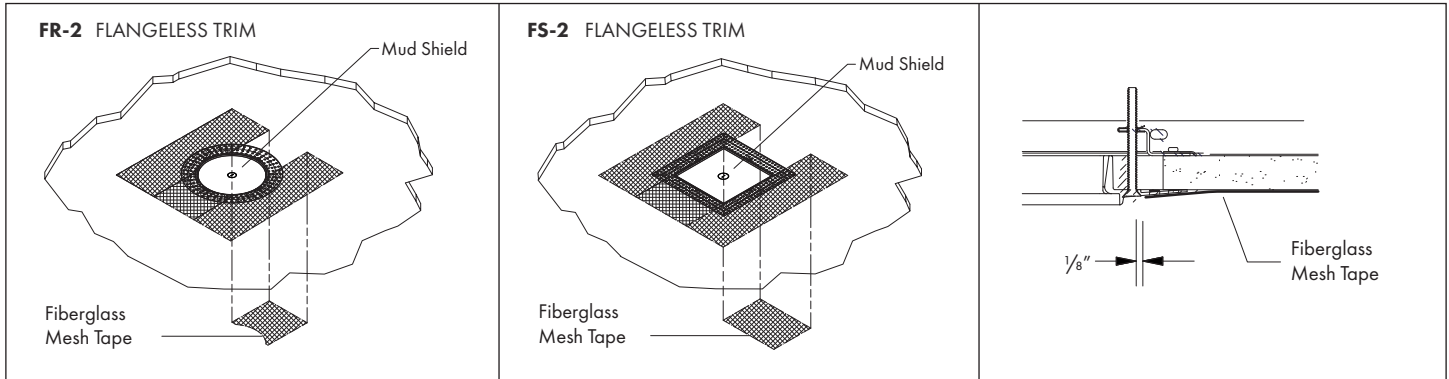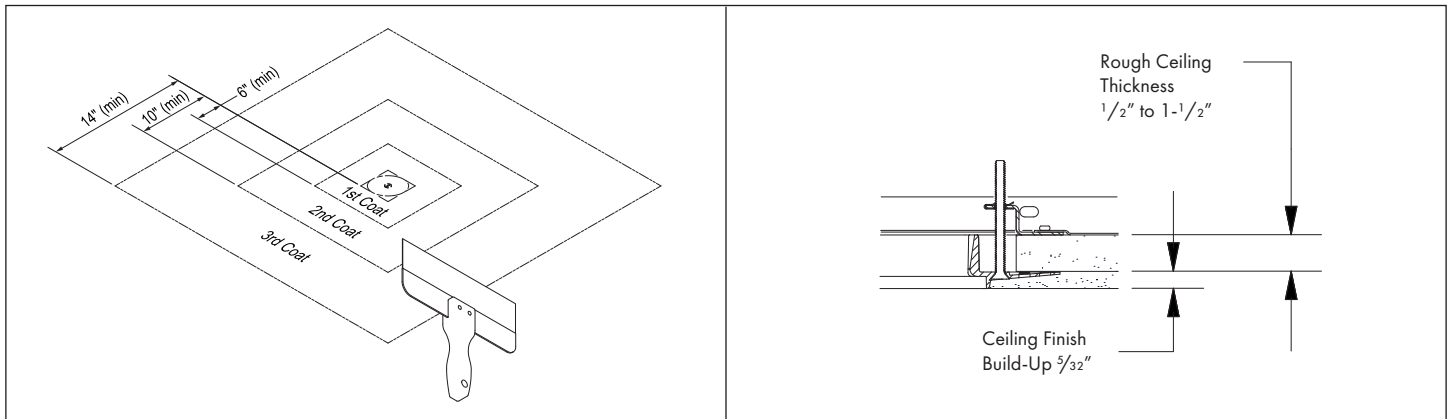1st Coat
2nd Coat
3rd Coat

Rough Ceiling Thickness
$1/2"$ to $1\text{-}1/2"$

Ceiling Finish Build-Up $5/32"$

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 edge. Allow first coat to dry completely and remove any high spots by lightly sanding before applying the second coat.

4g. Second 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.

4j. Remove mud shield.

4i. Sand third coat with fine grit sandpaper until mud shield and finished metal edge of trim lip are barely exposed.

4k. Remove mud shield.

4l. 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

5a. Connect light engine wire lead to power supply wire lead.

Align trim notches with ribs

Ceiling Cut-out

Push in Retention Springs

3x Retention Spring Set Screws

5b. Orient light engine so the arrow aligns with adjacent walls.

Arrow

Wall Line

5c. Install light engine up flush against flangeless trim.

Tighten Retention Spring set screws to mounting trim **Caution: Do Not Overtighten!**
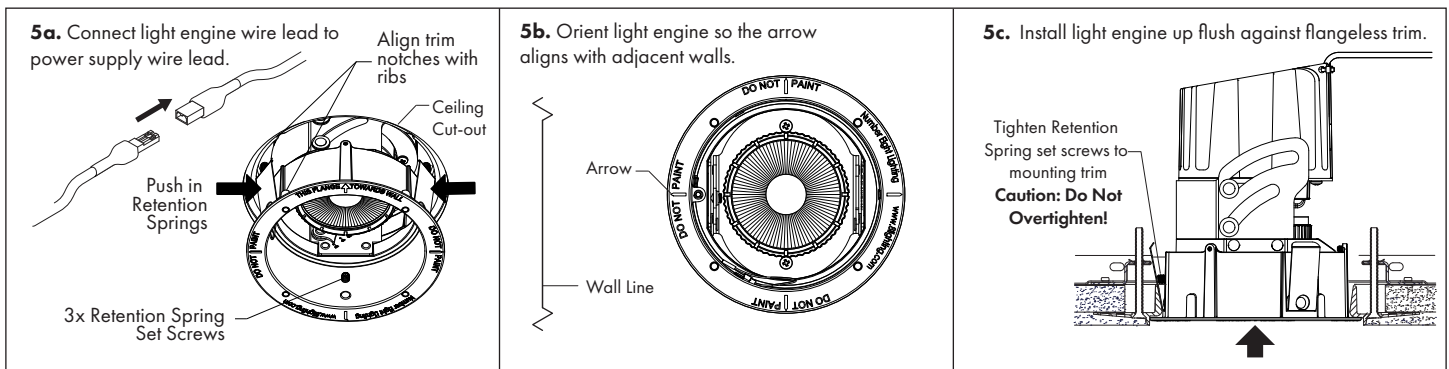
5d. Install trim plate (see Page 14).

NEW CONSTRUCTION INSTALLATION - FLANGELESS TRIMS with WOOD/STONE CEILINGS

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

BH
Bar Hanger
Mounting Option

NIC-FS-W
NON-IC Mounting Frame + Power Supply
12"L* x 9-1/4"W* x 4-1/4"H
*Add 3" to length or width to
accommodate mounting accessories

BB
Butterfly Bracket
Mounting Option

TBC
T-BAR
Mounting Clip
Option

PMB
Panel Mount
Bracket Option

4-5/16" x 4-5/16"
Cut-out

200-HD-S
Light Engine

FLS-2 Trim   **FLS-2-BV** Trim   **FLS-2-WW** Trim
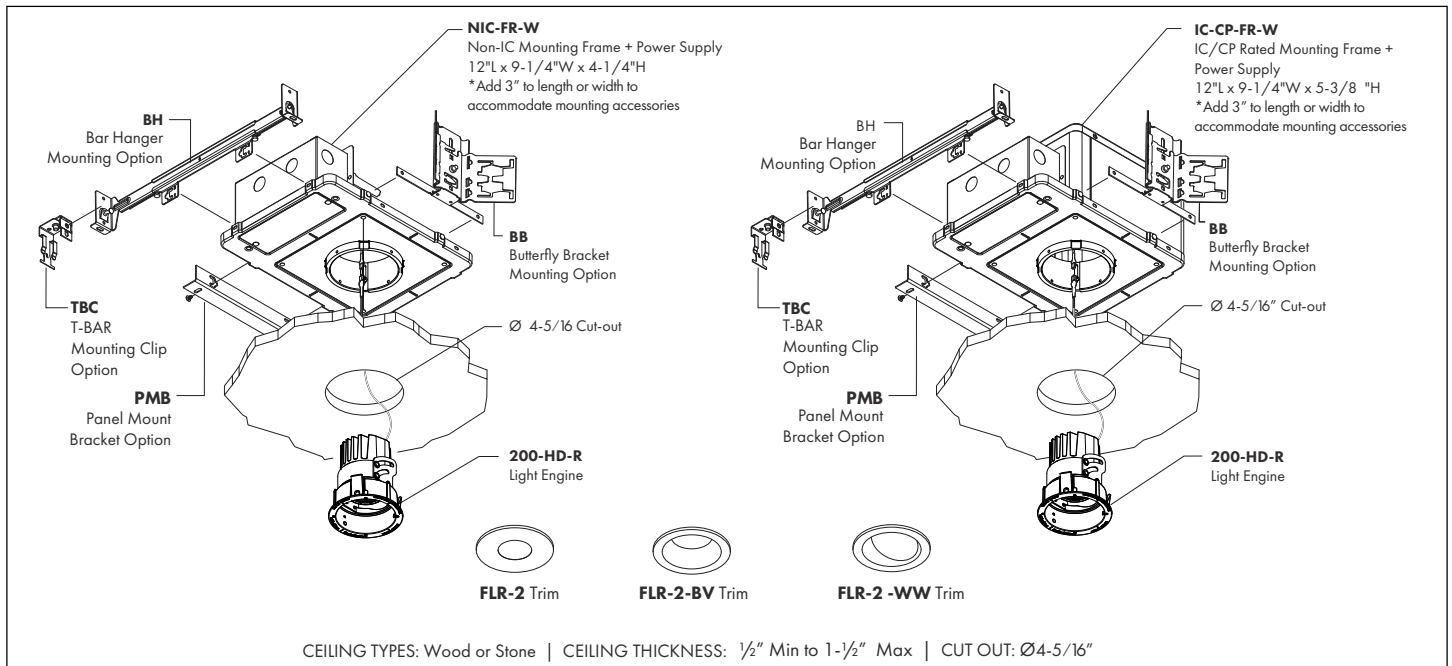
IC-CP-FS-W
IC/CP Rated Mounting Frame +
Power Supply
12"L* x 9-1/4"W* x 5-3/8"H
*Add 3" to length or width to
accommodate mounting accessories

BB
Butterfly Bracket
Mounting Option

4-5/16" x 4-5/16"
Cut-out

200-HD-S
Light Engine

CEILING TYPES: Wood or Stone | CEILING THICKNESS: ½" Min to 1-½" Max | CUT OUT: 4-5/16" X 4-5/16"

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

BH
Bar Hanger
Mounting Option

NIC-FR-W
Non-IC Mounting Frame + Power Supply
12"L x 9-1/4"W x 4-1/4"H
*Add 3" to length or width to
accommodate mounting accessories

BB
Butterfly Bracket
Mounting Option

TBC
T-BAR
Mounting Clip
Option

PMB
Panel Mount
Bracket Option

Ø 4-5/16 Cut-out

200-HD-R
Light Engine

FLR-2 Trim   **FLR-2-BV** Trim   **FLR-2 -WW** Trim

IC-CP-FR-W
IC/CP Rated Mounting Frame +
Power Supply
12"L x 9-1/4"W x 5-3/8 "H
*Add 3" to length or width to
accommodate mounting accessories

BH
Bar Hanger
Mounting Option

BB
Butterfly Bracket
Mounting Option

Ø 4-5/16" Cut-out

200-HD-R
Light Engine

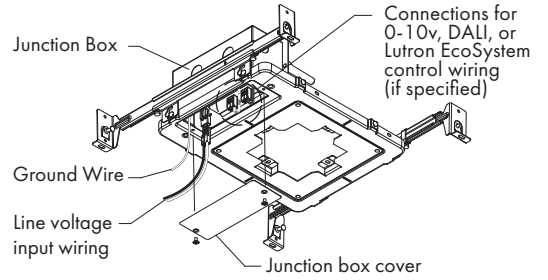CEILING TYPES: Wood or Stone | CEILING THICKNESS: ½" Min to 1-½" Max | CUT OUT: Ø4-5/16"

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

2a. Disconnect power at circuit breaker.

2b. Remove junction box cover. Install appropriate conduit connector(s) using one or more of the provided junction box knock-outs.

2c. Review wiring diagrams on **Pages 15** and **16**, wire fixture accordingly.
Place all wiring and connectors back in junction box and replace cover.

Note: 0-10v, DALI, or Lutron EcoSystem power supplies (if specified) require additional dimming control wiring.

Junction Box

Connections for 0-10v, DALI, or Lutron EcoSystem control wiring (if specified)

Ground Wire

Line voltage input wiring

Junction box cover

STEP 3 (OPTIONAL) – SQUARE COLLAR ANGLE ADJUSTMENT

Note: The Square Collar can be rotated +/- 5° to align with adjacent wall or fixtures. Thumb Knobs shown below will permit adjustment.

Square Collar

10°

5°

Mounting Frame

Thumb Knob
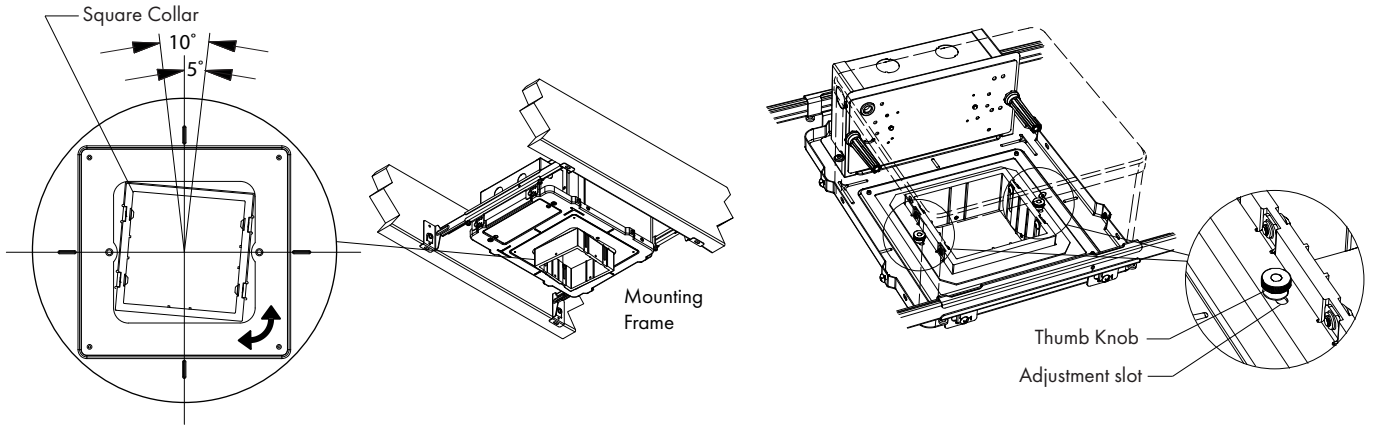
Adjustment slot

3a. Loosen (do not remove) the 4x Collar Screws using supplied 5/32" allen key & pull the Square Collar down to the lowest position.
Note that the Collar Screws do not need to be fully tightened again until after determining final height adjustment for the Square Collar (see page 12).

4x Collar Screws

Drop Collar to lowest position

3b. Loosen two Thumb Knobs inside the Mounting Frame adjust the angle as needed.
Note: For open NIC Mounting Frames the two knobs may be accessible from above or the sides. For IC-CP mounting frames the knobs can only be accessed through the square collar.
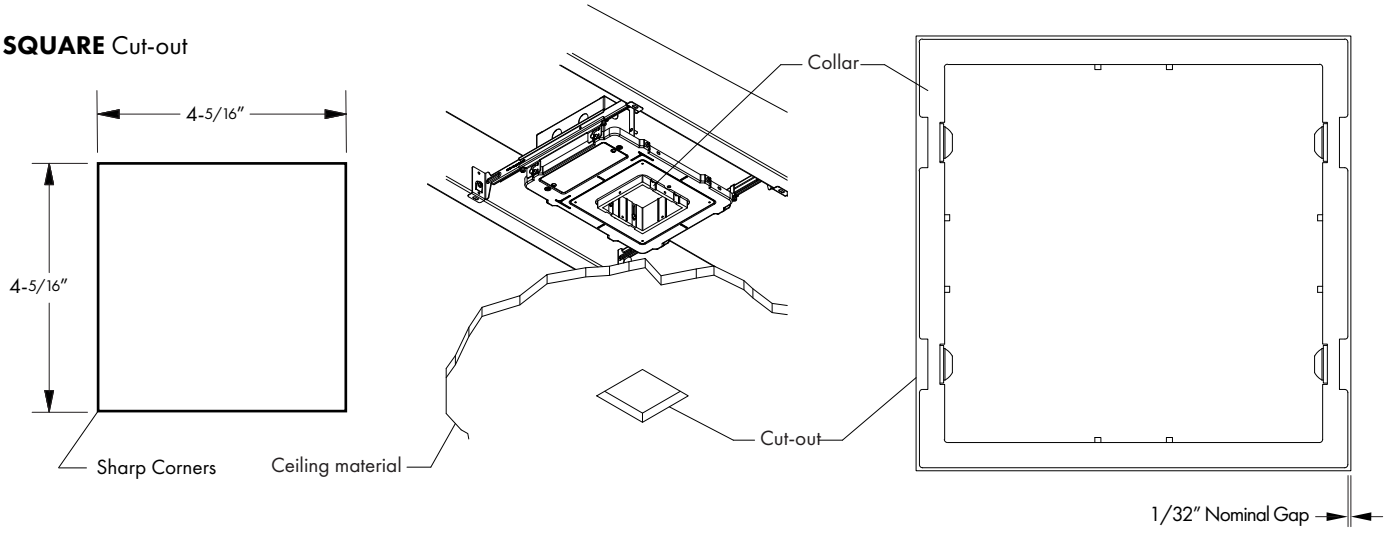**3c.** Hand tighten the Thumb Knobs to lock-in the desired angle.
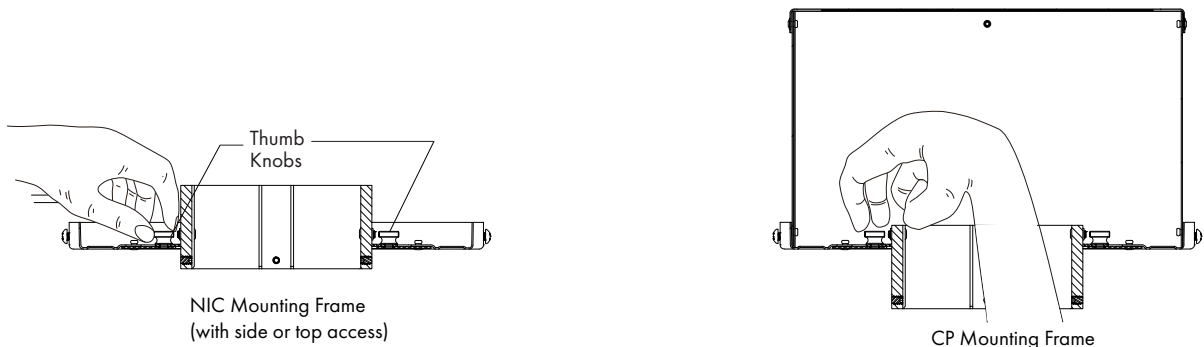
Thumb Knobs

NIC Mounting Frame
(with side or top access)

CP Mounting Frame

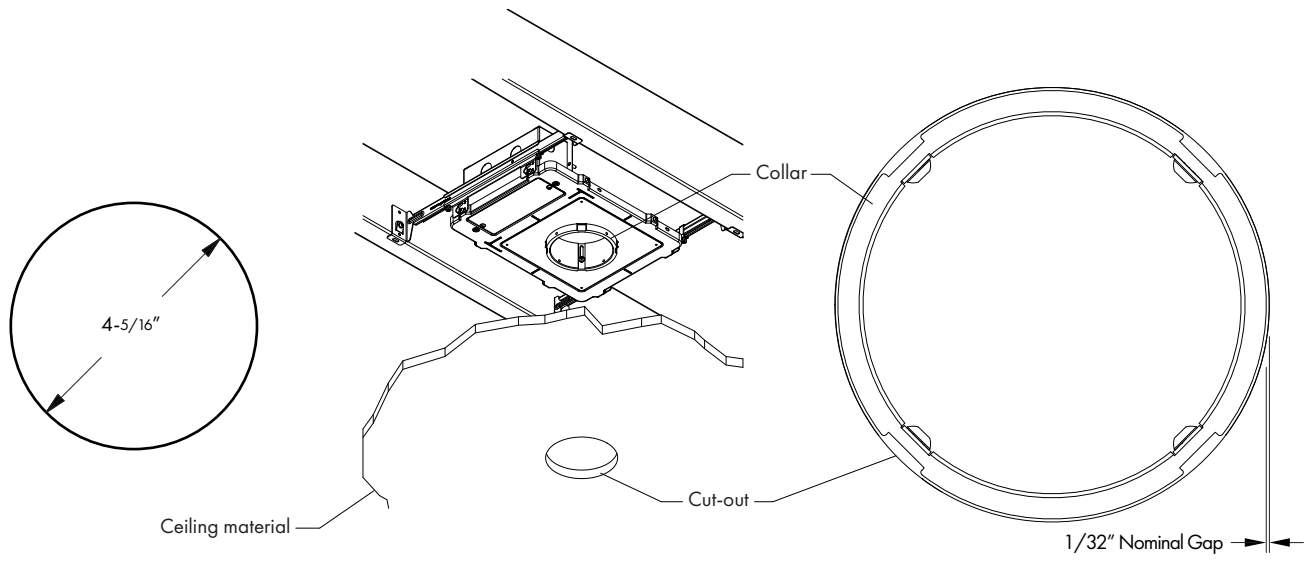# NEW CONSTRUCTION INSTALLATION - FLANGELESS TRIMS with WOOD/STONE CEILINGS

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

SQUARE Cut-out

4-5/16″

4-5/16″

Sharp Corners

Ceiling material

Collar

Cut-out

1/32″ Nominal Gap

ROUND Cut-out

4-5/16″

Ceiling material

Collar

Cut-out

1/32″ Nominal Gap

NEW CONSTRUCTION INSTALLATION - FLANGELESS TRIMS with WOOD/STONE CEILINGS

CAUTION: Accurate Collar depth is required to install trim plate flush to surface.
To ensure trim plate will be flush to the mounting surface, the collar must be recessed up into the mounting surface by the depth of the supplied trim plate gauge tip. Use tip marked ◄ **200**.

5a. Loosen the collar screws and check depth of collar at each set screw location using the trim plate gauge.

5b. Confirm depth using gauge. Once depth is corrected at each location, tighten the set screws to lock in the collar depth. (DO NOT OVERTIGHTEN!)
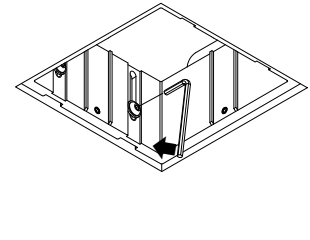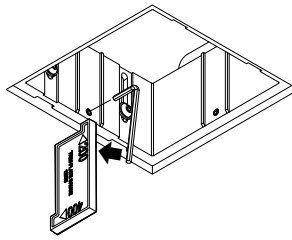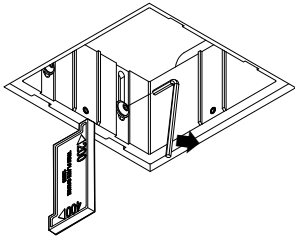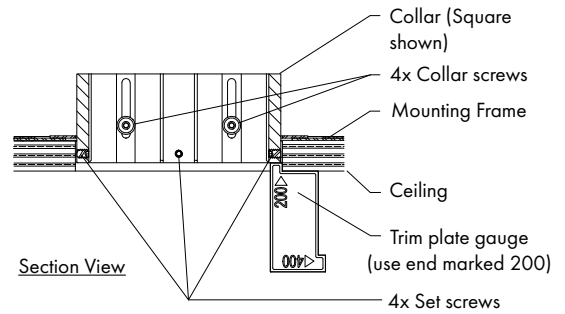
5c. Tighten 4x collar screws.

Collar (Square shown)
4x Collar screws
Mounting Frame
Ceiling
Trim plate gauge (use end marked 200)
4x Set screws
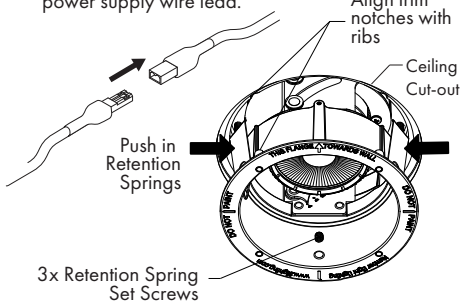
Section View

Fig 5a. Loosen Collar Screws, check & adjust Collar depth.

Fig 5b. Confirm depth and tighten Set Screws. **DO NOT OVERTIGHTEN**.

Fig 5c. Tighten Collar Screws.

6a. Connect light engine wire lead to power supply wire lead.

Align trim notches with ribs
Ceiling Cut-out
Push in Retention Springs
3x Retention Spring Set Screws

6b. Orient light engine so arrow shown on flange will be perpendicular with adjacent wall.

DO NOT PAINT
Arrow
Wall Line
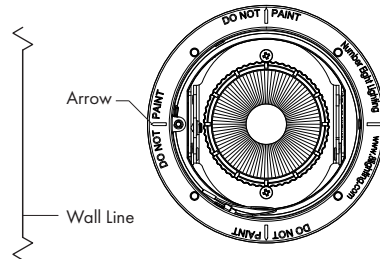
6c. Install light engine through cut-out and flush up against ceiling.

Tighten 3x Retention Spring Set Screws
Caution: Do Not Overtighten!
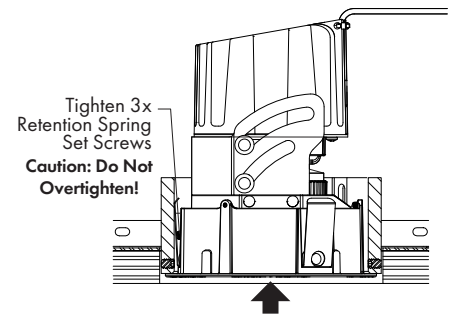
6d. Install trim plate (see page 14).

AIMING & ADJUSTMENT

STEP 1 – AIMING AND ADJUSTMENT

VERTICAL AIMING ANGLE ADJUSTMENT

1a. Loosen vertical lock screw using 5/64" hex key.

Vertical lock set screw

1b. Insert flat blade screw driver as shown.

1c. Use flat blade screw driver to adjust light engine.

1d. Adjust light engine to desired vertical angle. Lock set screw at desired position.

0 deg vertical adjustment

30 deg vertical adjustment

HORIZONTAL AIMING ANGLE ADJUSTMENT

1e. Unlock set screw using 5/64" Hex Key.

Horizontal lock set screw

1f. Rotate the bracket assembly to desired angle (rotates 0-360°). Lock set screw.

Bracket assembly

Light engine flange

Horizontal lock set screw

STEP 2 – LENS AND ACCESSORY REMOVAL AND REPLACEMENT

2a. Remove the lens ring from the lamp holder by unscrewing counter-clockwise. **Note:** Use flat head screw driver in lens ring notches if required to loosen.
2b. Remove optic lens (and accessory lens if used) from the lens ring.
2c. Install desired optic (and accessory lens if used) into the lens ring.
2d. Reinstall lens ring on to lamp holder by turning clockwise.

Accessory Lens ID text

Lens Ring Notches

Optic Lens

Accessory Lens (text should face down for best performance)

Lens Ring

Lens must fully seat into Lens Ring opening

TRIM PLATE FINISHING & INSTALLATION

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.

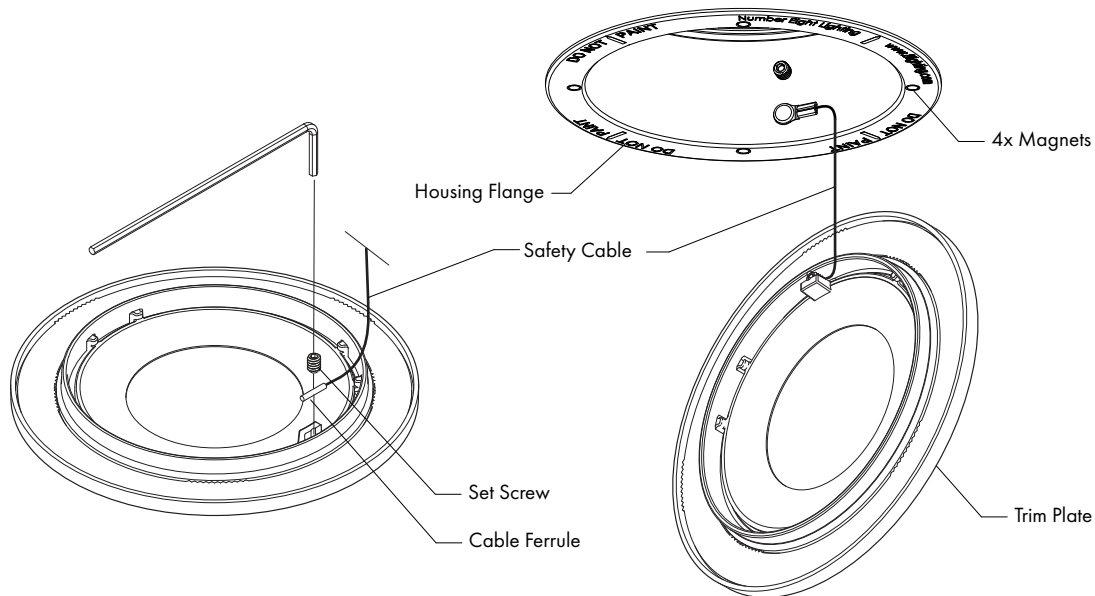**1d.** Allow trim plate to dry completely before installing.

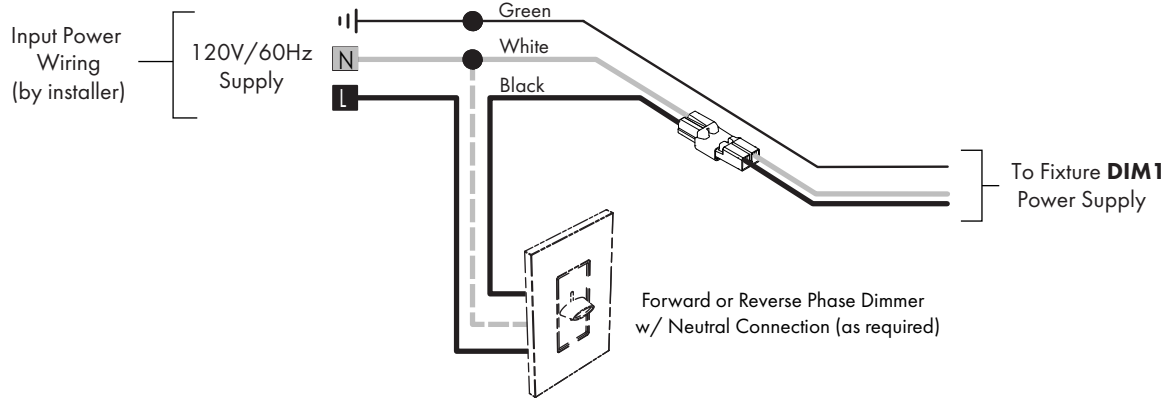**2a.** Loosen set screw in trim plate to accept safety cable.

2b. Extend trim safety cable out of housing and insert cable ferrule under set screw from side and secure with 1/16" hex key.

2c. Install Trim Plate onto Housing Flange. Trim Plate will be retained o housin flange by magnets.

WIRING DIAGRAMS

DIM1 - PHASE CONTROL

Input Power Wiring (by installer)

120V/60Hz Supply

N — White
L — Black
Green

To Fixture **DIM1** Power Supply

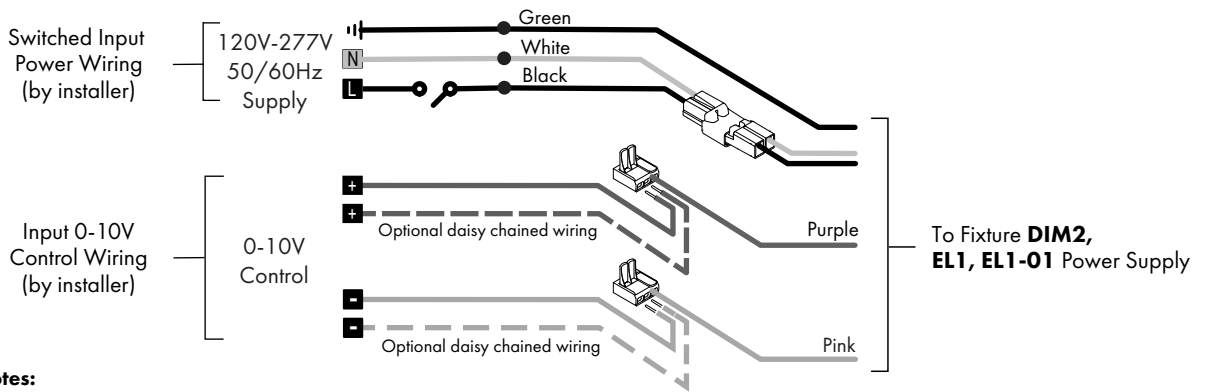Forward or Reverse Phase Dimmer w/ Neutral Connection (as required)

Phase Control Notes:
DIM1 drivers are Forward or Reverse Phase dimmable.
For compatible dimmers for use with **DIM1** drivers see: www.8lighting.com/resources-downloads

DIM2 / EL1 & EL1-01 - 0-10V CONTROL

Switched Input Power Wiring (by installer)

120V-277V 50/60Hz Supply

N — White
L — Black
Green

Input 0-10V Control Wiring (by installer)

0-10V Control

+
+
Optional daisy chained wiring — Purple

−
−
Optional daisy chained wiring — Pink
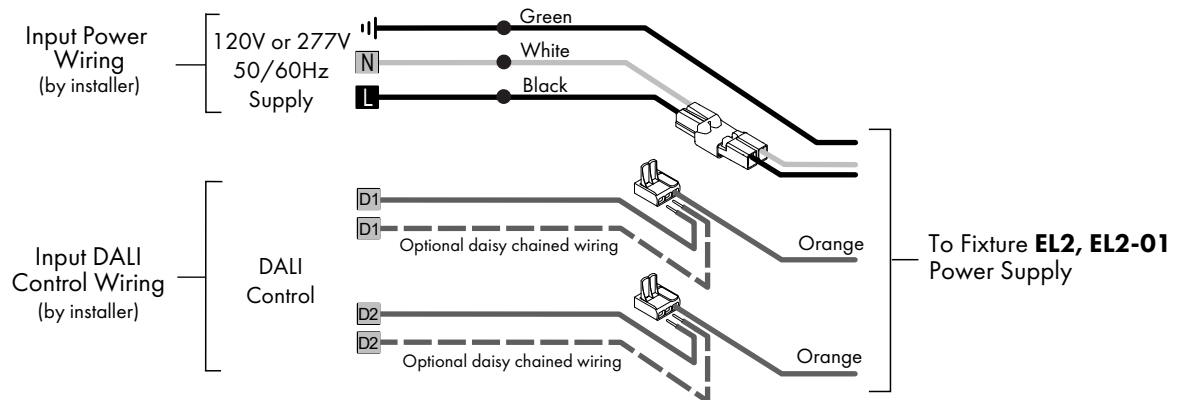
To Fixture **DIM2, EL1, EL1-01** Power Supply

0-10V Control Notes:
0-10V control wiring **is** polarity sensitive and should be run as Class 2.
300' is the maximum control wiring run length to reduce EMI susceptibility and voltage drop. Voltage drop should be no greater than 0.3V.
For compatible dimmers for use with **DIM2 / EL1, EL1-01** drivers see: www.8lighting.com/resources-downloads.

EL2 / EL2-01 - DALI CONTROL

Input Power Wiring (by installer)

120V or 277V 50/60Hz Supply

N — White
L — Black
Green

Input DALI Control Wiring (by installer)

DALI Control

D1
D1
Optional daisy chained wiring — Orange

D2
D2
Optional daisy chained wiring — Orange

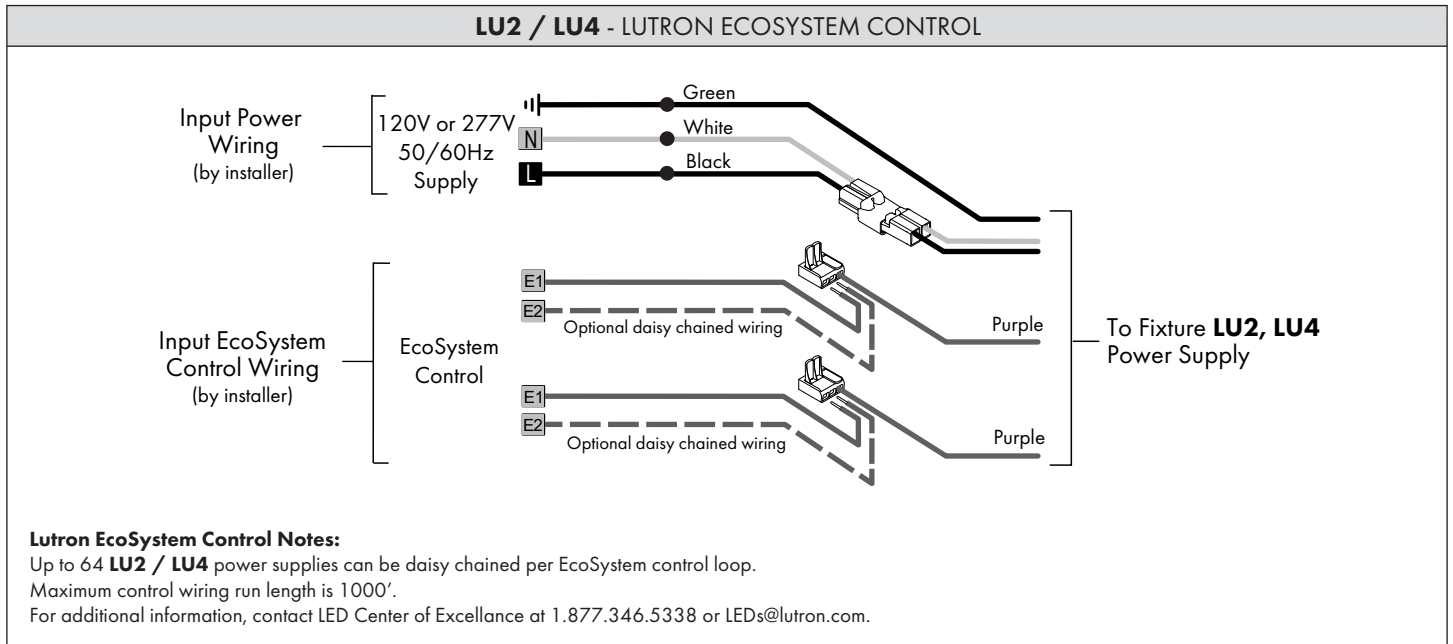To Fixture **EL2, EL2-01** Power Supply

DALI Control Notes:
DALI control wiring **is not** polarity sensative and can be run as Class 1 or 2. Up to 64 **EL2, EL2-01** power supplies can be daisy chained per DALI control loop.
Maximum control wiring run length is 1000'.
For compatible dimmers for use with **EL2, EL2-01** drivers see: www.8lighting.com/resources-downloads

WIRING DIAGRAMS

LU2 / LU4 - LUTRON ECOSYSTEM CONTROL

Input Power Wiring (by installer)

120V or 277V 50/60Hz Supply

Green
White
Black

N
L

Input EcoSystem Control Wiring (by installer)

EcoSystem Control

E1
E2
Optional daisy chained wiring

Purple

E1
E2
Optional daisy chained wiring

Purple

To Fixture **LU2, LU4** Power Supply

Lutron EcoSystem Control Notes:
Up to 64 **LU2 / LU4** power supplies can be daisy chained per EcoSystem control loop.
Maximum control wiring run length is 1000'.
For additional information, contact LED Center of Excellance at 1.877.346.5338 or LEDs@lutron.com.

N°
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