INSTALLATION INSTRUCTIONS
RECESSED MODEL SERIES 804/804S

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 your local electrical code which sets the wiring standards and installation requirements for your locality.

Save these instructions.

HOUSING INSTALLATION INSTRUCTIONS
RECESSED HOUSING MODEL 804/804S SERIES

Mounting Hanger Bars

STEP 1 Important: Before attaching Hanger Bar Bracket you must determine Trim Model to be used (refer to Trim Types on Page 2).

Select upper or lower Bracket hole position (refer to Table 1.1 **Hanger Bar Bracket Positioning Chart**).

Note: For **FS-P, FR-P, INR-P, INS-P** Trims, ceiling thickness is measured from bottom face of ceiling joist to bottom face of sheetrock.

Ceiling thickness range and hole position applies to both P-1 & P-2 Trims. Refer to plaster trim installation instructions for additional details.

STEP 2 Loosen 2 screws slightly on Housing to attach or adjust each Hanger Bar Bracket. Position Hanger Bar Bracket in hole position #1 or #2 & secure screws – **FIG 1.1** & **1.2**.

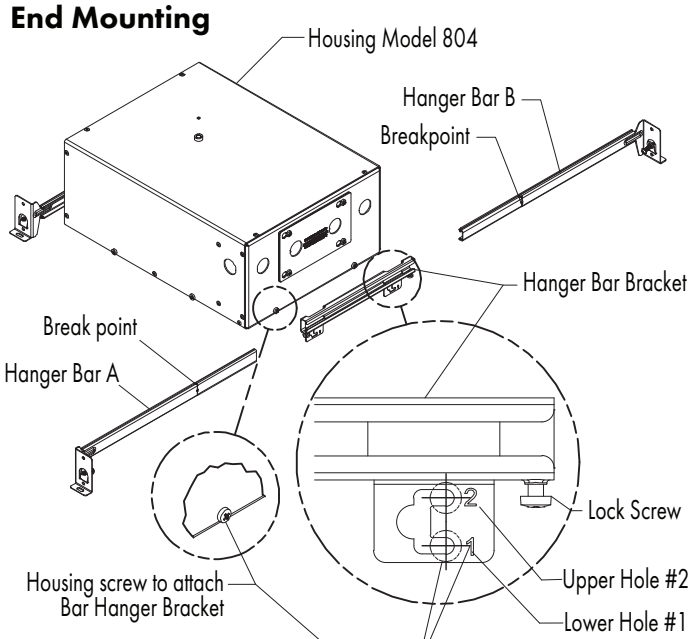
STEP 3 Assemble Hanger Bar A & B through each Hanger Bar Bracket to slide onto each other. The ends should have 1" minimum overlap.

Note: Hanger Bars can be shortened at break locations shown – **FIG 1.1**.

Table 1.1 Hanger Bar Bracket Position Chart

800 Series Trim Models		For Ceiling Thickness Range	Hole Position #
FR-P, FS-P		1/2" to 1"	Lower #1
INR-P, INS-P, INR-BV-P, INS-BV-P		1/2" to 1"	Upper #2
		1" to 1-1/2"	Lower #1
FS-W, FLS-W		1/4" to 3/4"	Upper #2
		3/4" to 1-1/2"	Lower #1
INS-W, FLINS-W, INS-BV-W, FLINS-BV-W		1/2" to 1"	Upper #2
		1" to 1-1/2"	Lower #1
FR-W, FLR-W	Standard Mounting Ring	1/2" to 1"	Upper #2
		1" to 1-1/2"	Lower #1
INR-W, FLINR-W, INR-BV-W, FLINR-BV-W	Standard Mounting Ring	1/2" to 3/4"	Upper #2
		1" to 1-1/4"	Lower #1
	Tall Mounting Ring	3/4" to 1"	Upper #2
		1-1/4" to 1-1/2"	Lower #1

End Mounting



Side Mounting

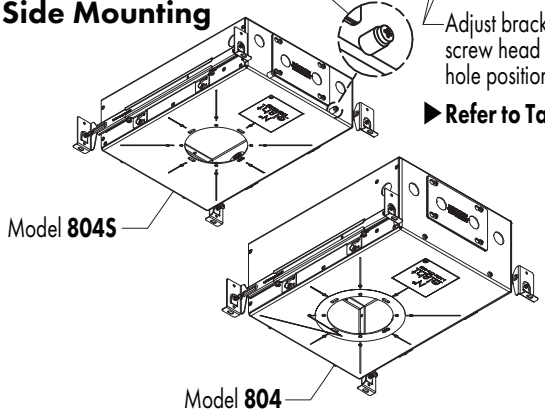
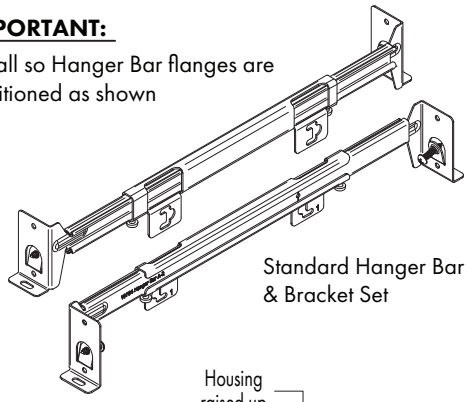


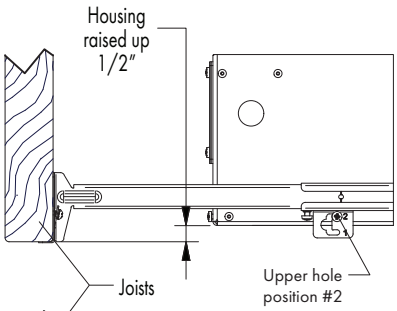
FIG 1.1 Installing Hanger Bar & Hanger Bracket Set

IMPORTANT:

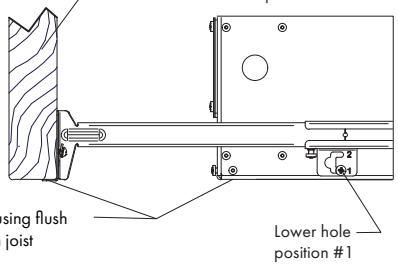
Install so Hanger Bar flanges are positioned as shown



Hole Position Upper #2



Hole Position Lower #1



Caution:

Be sure to select correct hole position for intended Trim assembly. Changing hole position is not possible. after ceiling is installed.

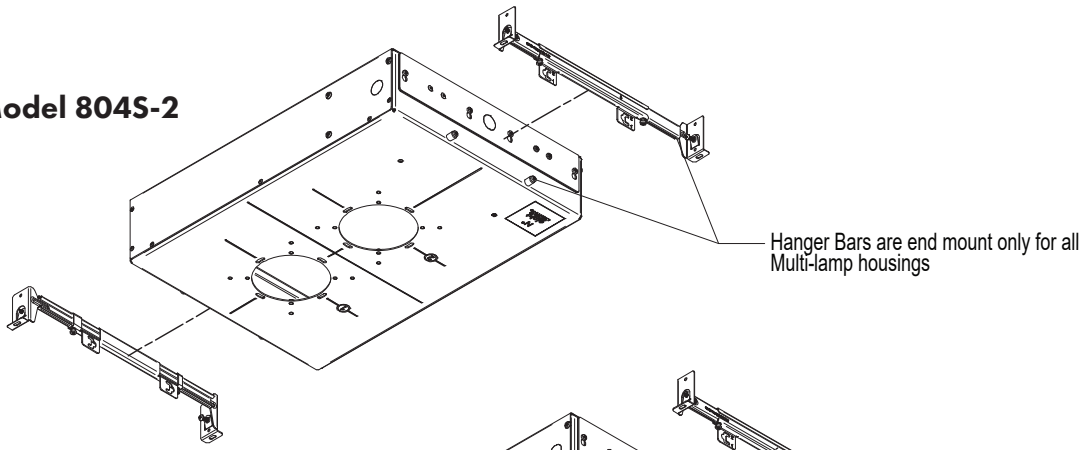
FIG 1.2 Hole Position & Housing Location

HOUSING INSTALLATION INSTRUCTIONS
RECESSED MODEL SERIES 804/804S

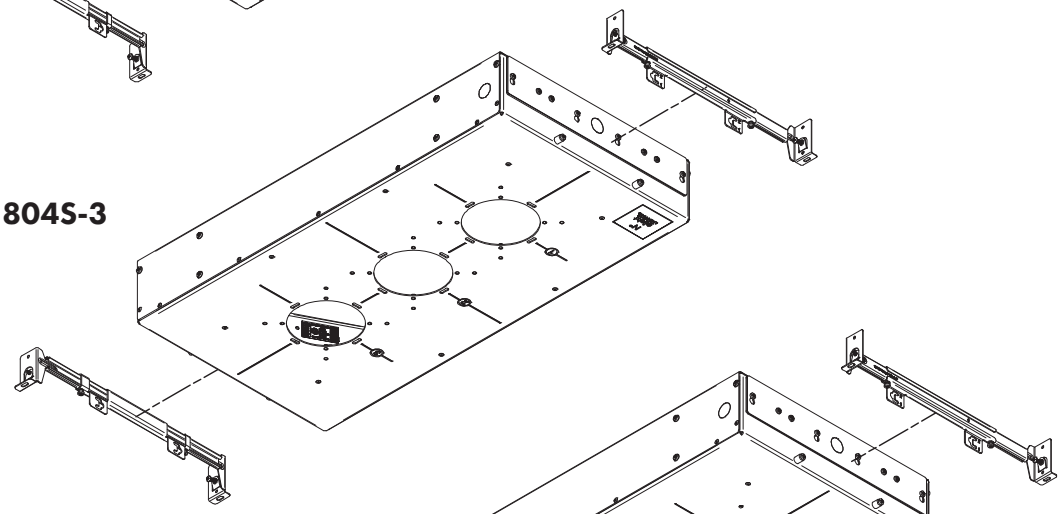
Note: Pre-install Hanger Bar & Bracket sets to housing as shown.
Refer to page 1 for assembly details.

Mounting Hanger Bar Sets to Multi-lamp Housings

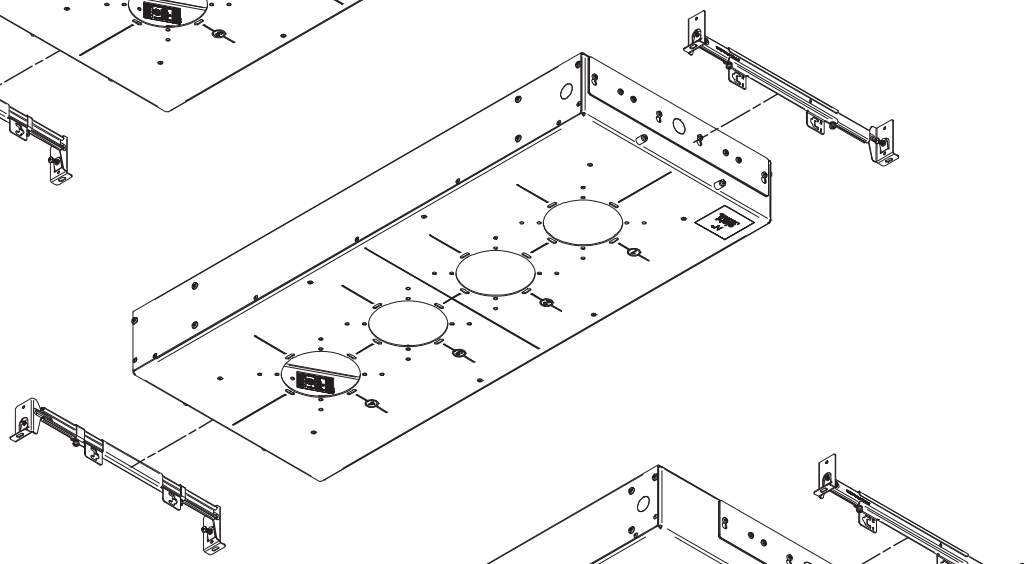
Model 804S-2



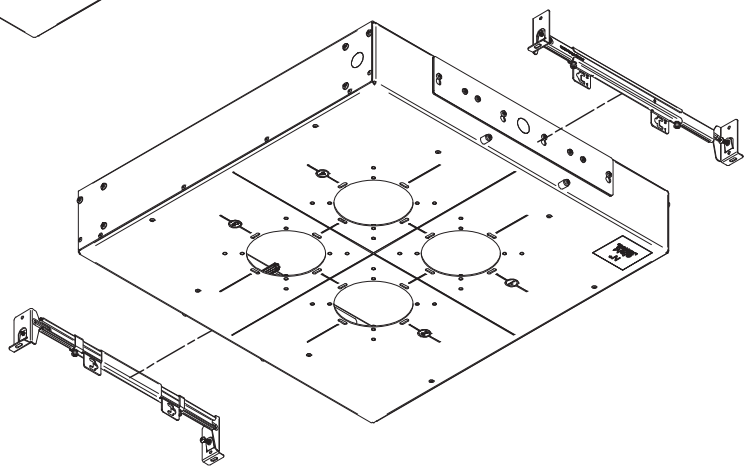
Model 804S-3



Model 804S-4



Model 804S-4Q



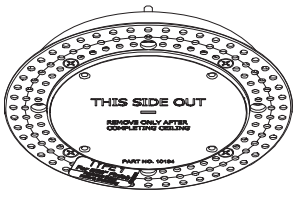
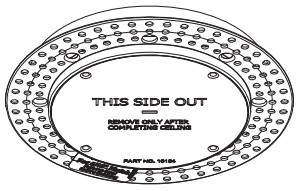
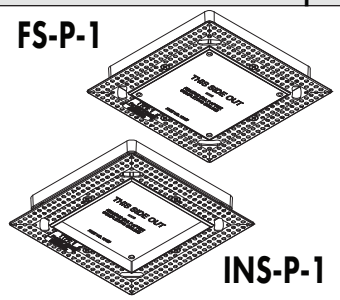
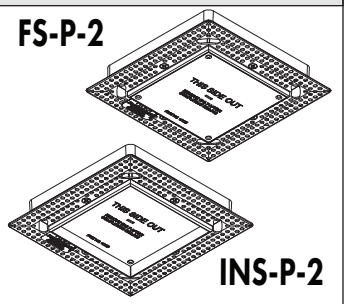
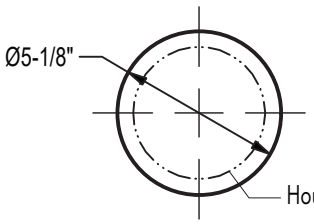
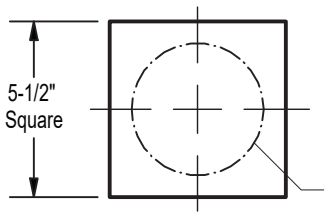
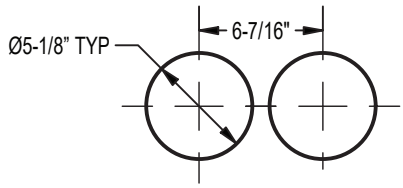
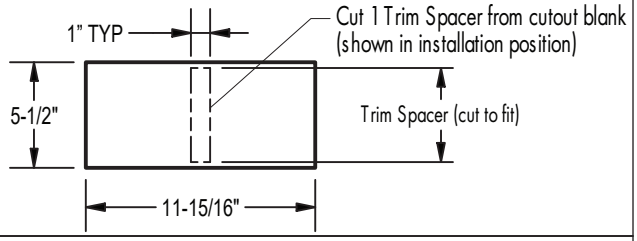
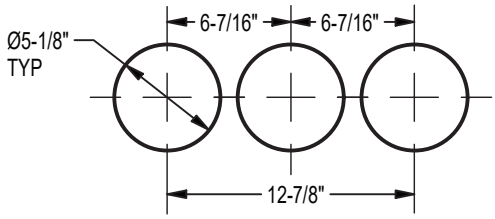
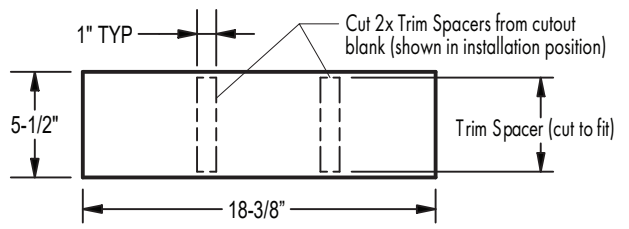
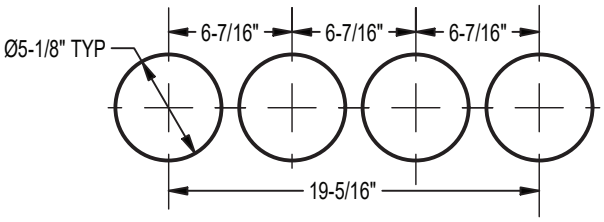
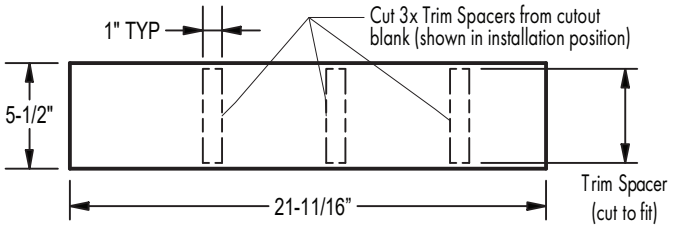
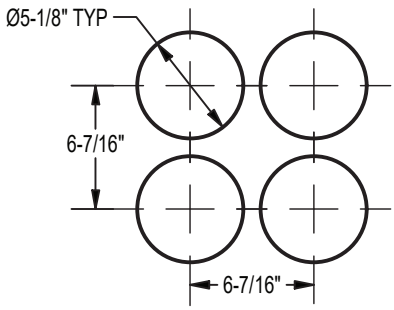
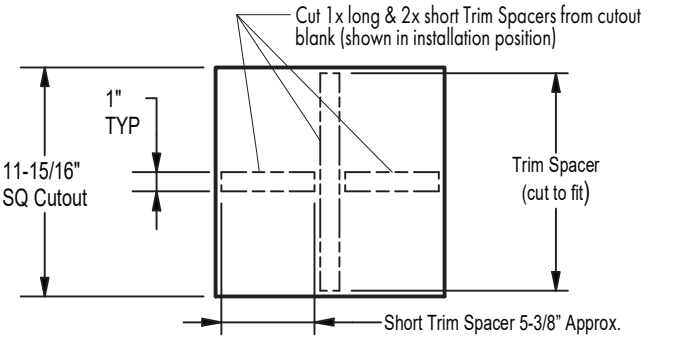
CEILING CUTOUT CHART FOR PLASTER/SHEETROCK CEILINGS

STEP 4 For Plaster/sheetrock only-Accurately measure cutout location (for housing aperture center) & mark centers in ceiling board.

⚠ **Important:** Cutout location accuracy is critical, always double check measurements before cutting.

STEP 5 Cut openings in ceiling board as dimensioned below.

Note: Trim Spacers are required with Square Trims used on Multi-Lamp Housings only. Spacers can be cut randomly from anywhere within square trim ceiling board cutout blanks shown below. Trim Spacer thickness must be identical to ceiling board used. Refer to Trim Installation Instructions 10303 for Trim Spacer installation details.

Trim Model	Round Trims		Square Trims	
	 FR-P-1	 FR-P-2	FS-P-1  INS-P-1	FS-P-2  INS-P-2
	Round Trim Cutouts		**Square Trim Cutouts & Spacers**	
1 Lamp Housing	 Tolerances: All Round Trim Cutouts ± 1/16" CTR-CTR ± 1/32" (shown at larger scale)		 Tolerances: All Square Trim Cutouts +1/8" (shown at larger scale)	
2 Lamp Housing				
3 Lamp Housing				
4 Lamp Housing				
4 Lamp Quad Housing				

CEILING CUTOUT CHART FOR WOOD/STONE CEILINGS

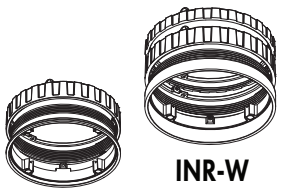
STEP 4 For Wood/Stone ceiligns only-Accurately measure cutout location for housing aperture centers & mark centers in ceiling board.

⚠ **Important:** Cutout location accuracy is critical, always double check measurements before cutting.

STEP 5 Cut openings in ceiling board as dimensioned below.

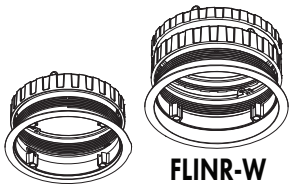
Round Trims

NON-FLANGED



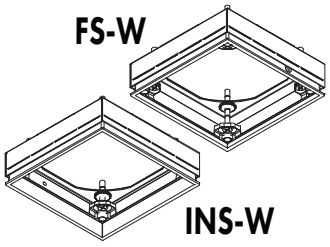
Important: All Non-flanged cutouts to have clean, sharp edges

FLANGED



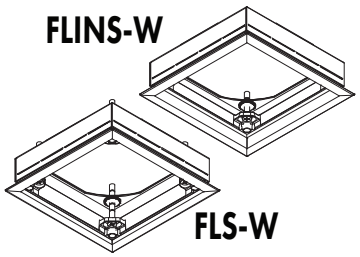
Square Trims

NON-FLANGED

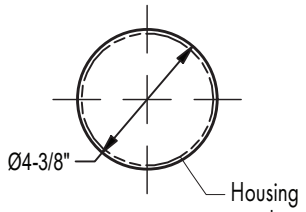


Important: All Non-flanged cutouts must have clean, sharp edges & corners

FLANGED



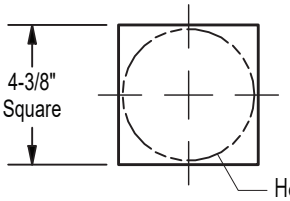
1 Lamp Housing



(shown at larger scale)

All Round Cutout Tolerances:

FR-W ± 1/32"
INR-W ± 1/32"
FLR-W +1/8" / -1/32"
FLNR-W +1/8" / -1/32"
CTR to CTR ± 1/32"

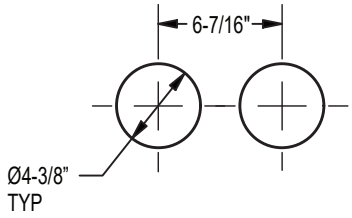


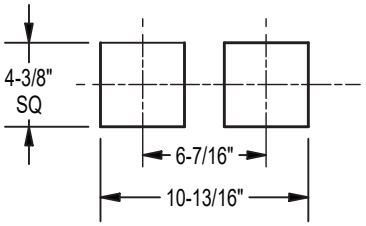
(shown at larger scale)

All Round Cutout Tolerances:

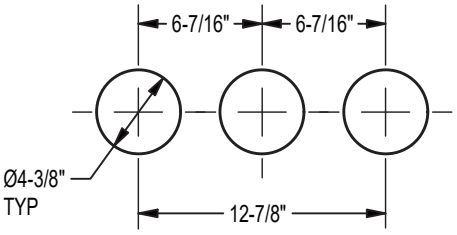
FS-W ± 1/32"
INS-W ± 1/32"
FLS-W +1/8" -1/16"
FLINS-W +1/8" -1/16"
CTR to CTR 1/32"

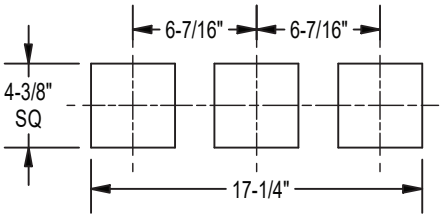
2 Lamp Housing



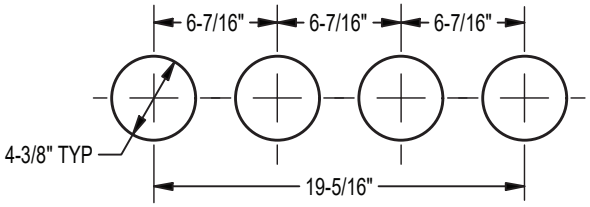


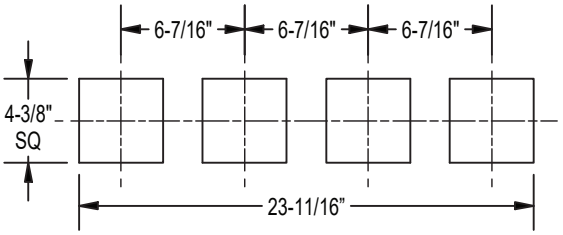
3 Lamp Housing



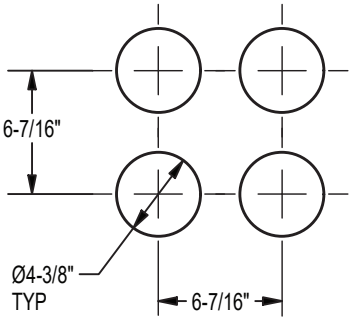


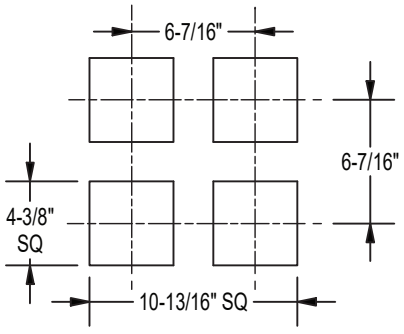
4 Lamp Housing





4 Lamp Quad Housing





HOUSING INSTALLATION INSTRUCTIONS
RECESSED MODEL SERIES 804/804S

Mounting Housing To Joists & Sticker Application

STEP 1 Spread Hanger Bars to approximate joist spacing. Temporarily secure Lock Screws to keep Housing from sliding along Hanger Bars – **FIG 5.1 & 5.2.**
Note: For Sloped Ceilings - Installing Housing so J Box Cover faces wall is recommended for maximum adjustment on applicable Lamp Modules – **FIG. 5.3**.

STEP 2 Secure Housing & Hanger Bar assembly to Joists using either the fasteners supplied on Hanger Bars or fasteners through alternate mounting holes – **FIG 5.1**.

STEP 3 Reposition Housing along Hanger Bars as needed. Use guide lines to help locate Housing relative to nearby walls or other fixtures – **FIG 5.1 & 5.2**.

STEP 4 Apply Stickers over unused holes & slots as shown to prevent light leaks & maintain airtight standards compliance. No caulking required – **FIG 5.4**.

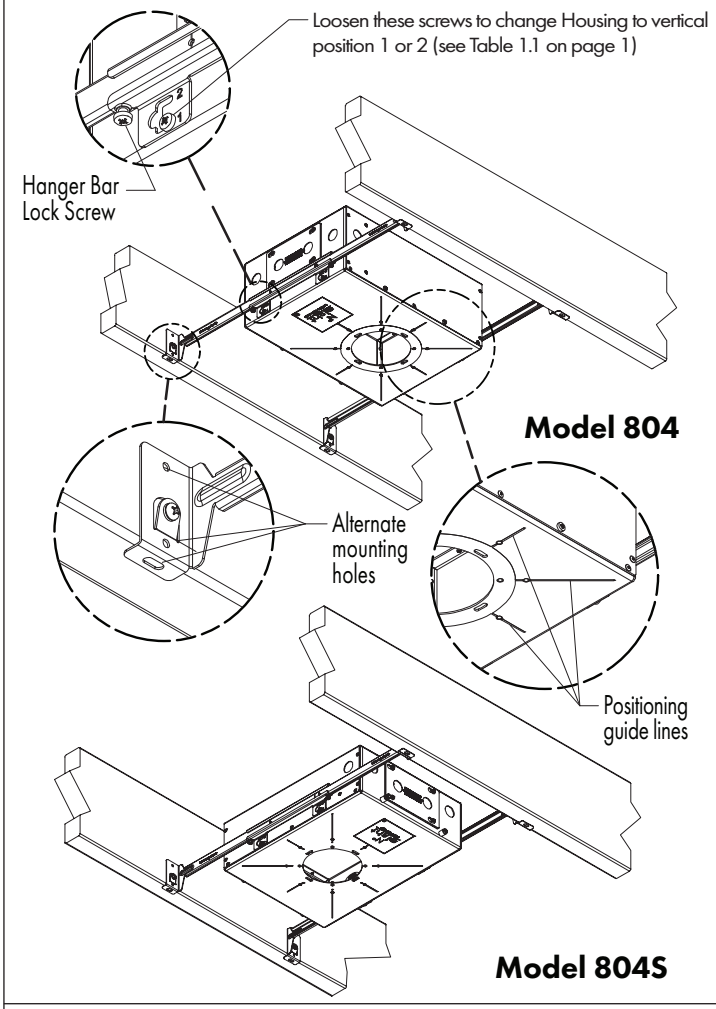


FIG 5.1 Fastening Housing to joists

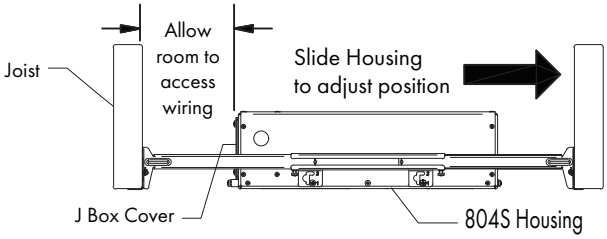


FIG 5.2 Horizontal Housing adjustment

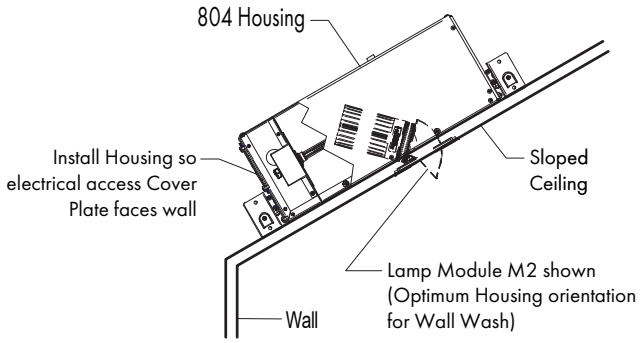
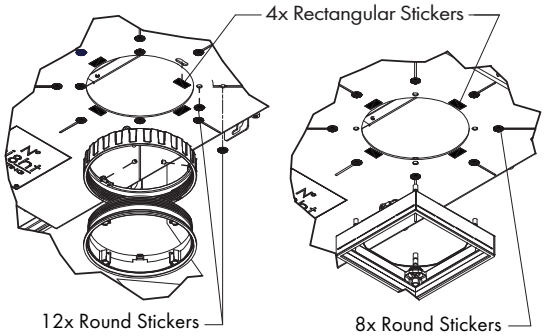


FIG 5.3 Recommended Sloped Ceiling Orientation

IMPORTANT For Airtight Compliance - Stickers are required on all 804 & 804S Housings

Wood/Stone Ceiling



Plaster/Sheetrock Ceiling

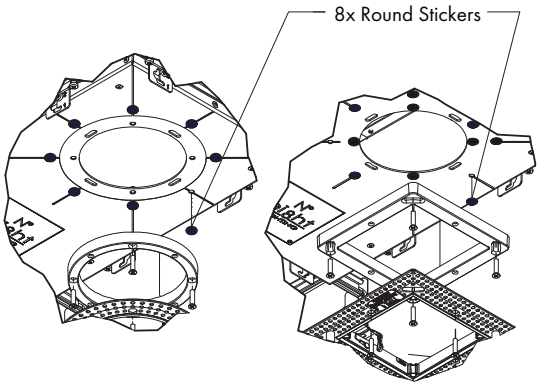
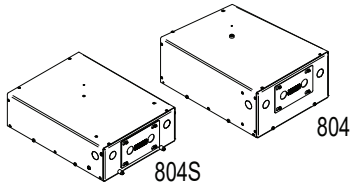


FIG 5.4 Sticker Application

INSTALLATION INSTRUCTIONS
Model **804 Series**
INSTALLING PANEL MOUNTING KIT



CAUTION: Read all instructions completely before proceeding.

Important: Before attaching Panel Mounting Brackets you must determine Trim Model to be used (refer to Installation Instructions supplied with Housing or Trim Kit).

Note: Panel may consist of wood, stone or other structural material. Sheetrock could also be used attached below panel & must be considered part of the overall ceiling thickness.

Step 1 Install Trim Kit to Housing using instructions provided with Trim Kit.

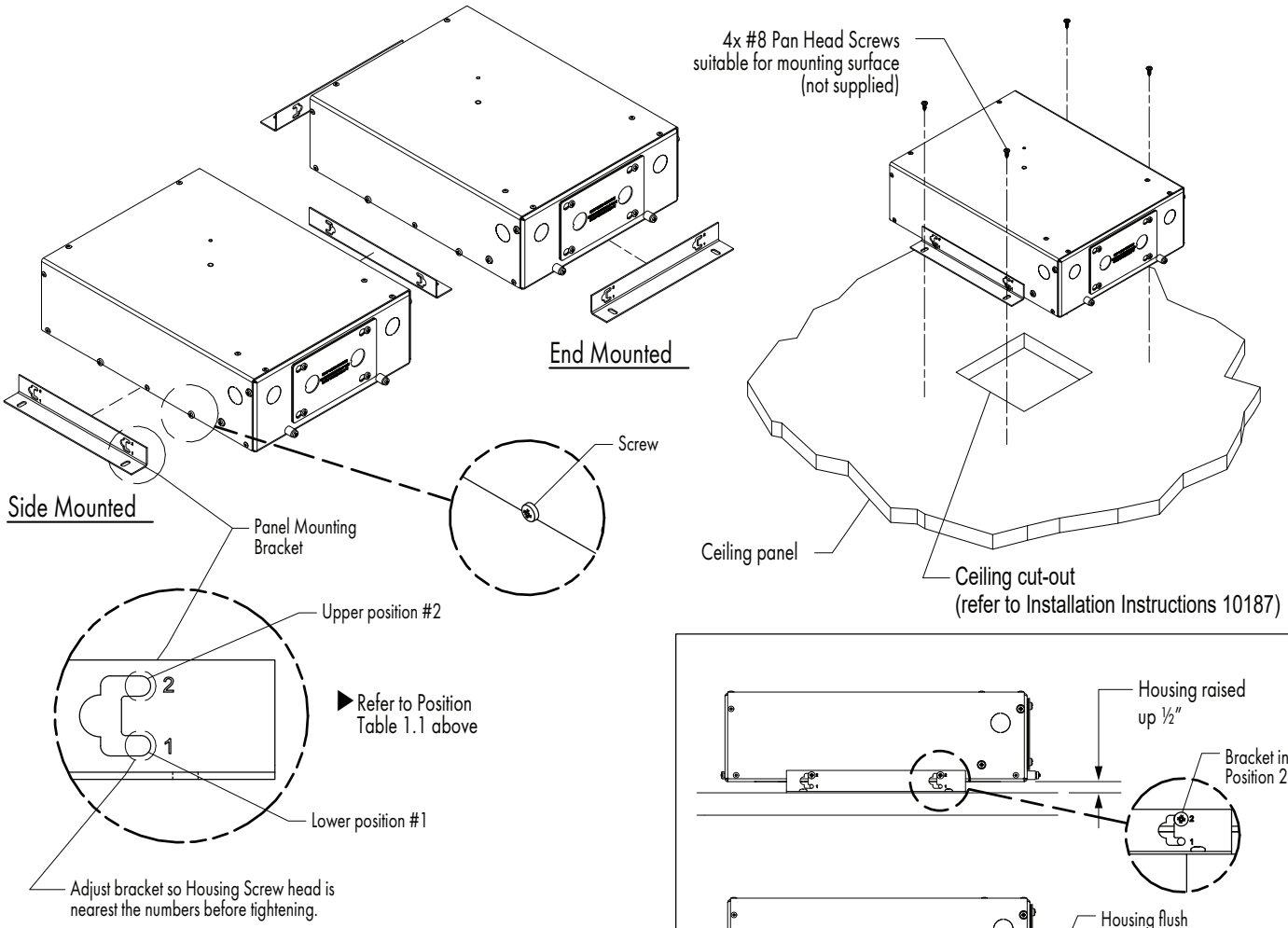
Step 2 Locate & cut hole in ceiling panel (refer to hole size specified in Trim Installation Instructions supplied with Trim Kit) - **FIG 1**.

Step 3 Select upper or lower Bracket position (refer to Panel Mounting Bracket Position Table 1.1) & attach 2x Panel Mounting Brackets to Housing as shown using screws supplied with Housing (use side or end mounting locations as needed) - **FIG 1** & **FIG 2**.

Step 4 Align Housing so Trim is visually centered in ceiling hole & secure Panel Mounting Brackets to panel using 4x Screws suitable for mounting surface (not supplied) - **FIG 1**.

Table 1.1 Hanger Bar Bracket Position Chart

800 Series Trim Models		For Ceiling Thickness Range	Hole Position #
FR-P, FS-P		1/2" to 1"	Lower #1
INR-P, INS-P, INR-BV-P, INS-BV-P		1/2" to 1"	Upper #2
		1" to 1-1/2"	Lower #1
FS-W, FLS-W		1/4" to 3/4"	Upper #2
		3/4" to 1-1/2"	Lower #1
INS-W, FLINS-W, INS-BV-W, FLINS-BV-W		1/2" to 1"	Upper #2
		1" to 1-1/2"	Lower #1
FR-W, FLR-W	Standard Mounting Ring	1/2" to 1"	Upper #2
		1" to 1-1/2"	Lower #1
INR-W, FLINR-W, INR-BV-W, FLINR-BV-W	Standard Mounting Ring	1/2" to 3/4"	Upper #2
		1" to 1-1/4"	Lower #1
	Tall Mounting Ring	3/4" to 1"	Upper #2
		1-1/4" to 1-1/2"	Lower #1



Caution

Be sure to select correct position for intended Trim assembly.
Changing position may not be possible after ceiling is installed.

FIG 1 Install Panel Mounting Brackets (Model 804S Housing shown)

FIG 2 Hanger Bracket/Housing Position

INSTALLATION INSTRUCTIONS

Model Series 804 / 804S

T-GRID CEILING

Important: Determine Trim Kit type to be used & refer to **Hanger Bar Hole Position Table** in Housing or Trim Installation Instructions.

CAUTION: Hanger Bar Hole position cannot be changed after ceiling is installed.

STEP 1. Pre-assemble T-Grid Clips to Hanger Bars & tighten Hanger Bar Mounting Screws just enough to allow for vertical adjustment of Hanger Bracket - **Fig 1**.

STEP 2. Attach Hanger Bar Brackets to Housing in hole position 1 or 2 to accomodate Trim & ceiling tile thickness - **Fig. 2**.

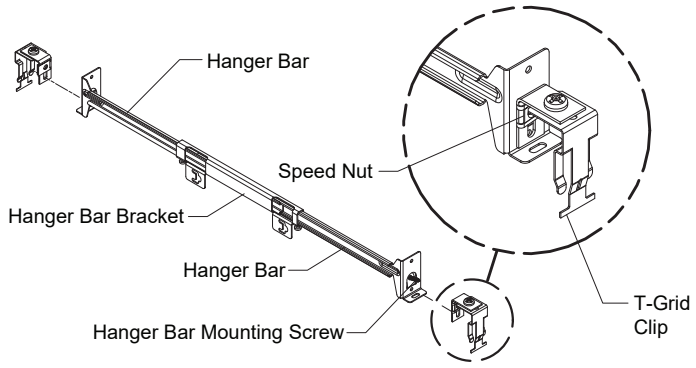


Fig. 1 Attach T-Grid Clip assemblies to Hanger Bracket Assemblies

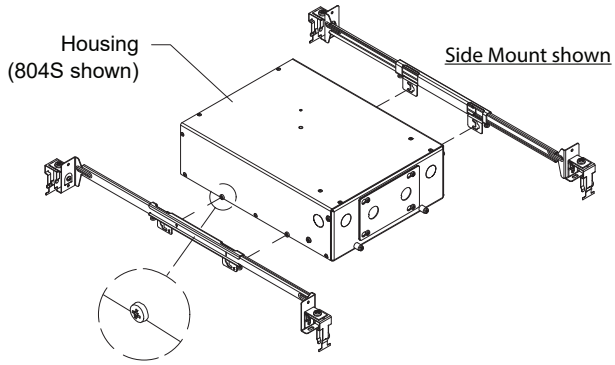


Fig. 2 Attach Hanger Bracket Assemblies to Housing

STEP 3. Extend Hanger bars to position T-Grid Clip assemblies fixture onto T-Grid bars - **Fig 3.4**.

Determine cut-out location in Ceiling Tile and ensure sufficient clearance for housing installation.

STEP 4. Cut opening in ceiling tile for Trim. For cut-out size, refer to Installation Instructions referenced above. Install Ceiling Tile into T-Grid - **Fig 4.5**.

Attach fixture to T-Grid so Trim fits into Ceiling Tile opening. Adjust fixture's horizontal position & lock into place by tightening the Hanger Bar Lock Screws - **Fig. 5**.

STEP 6. Adjust vertical height of Housing by sliding speed nuts so Housing is level with Ceiling Tile. Lock position by tightening Mounting Screws - **Fig 5**.

Note: Trim will permit a vertical adjustment range to help accomodate Ceiling Tile thickness.

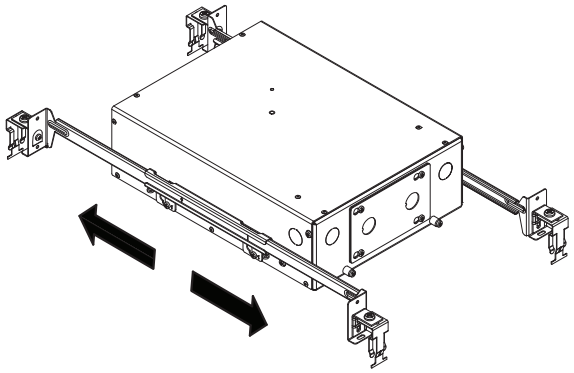


Fig. 3 Adjust Hanger Bars

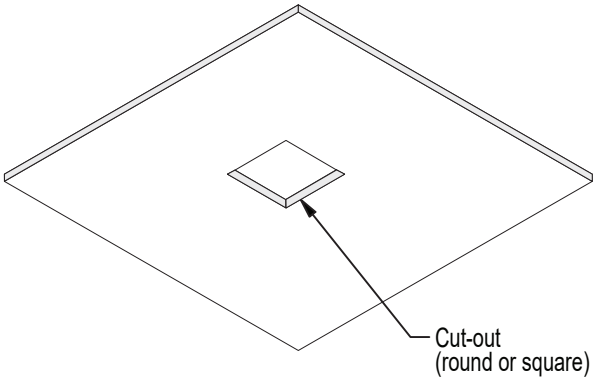


Fig. 4 Cut opening in Ceiling Tile

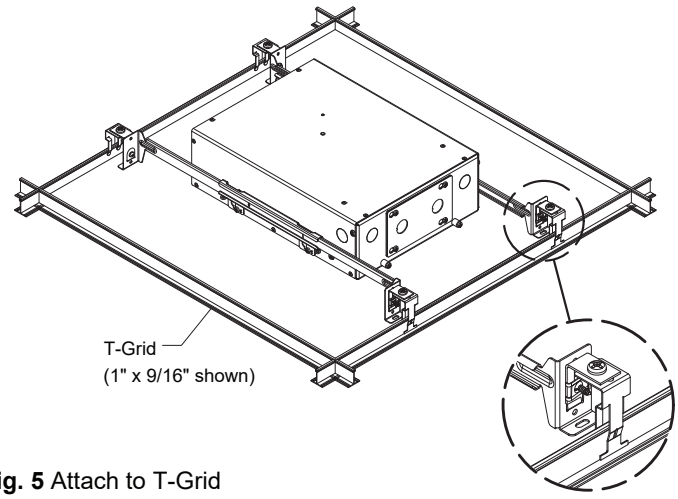


Fig. 5 Attach to T-Grid

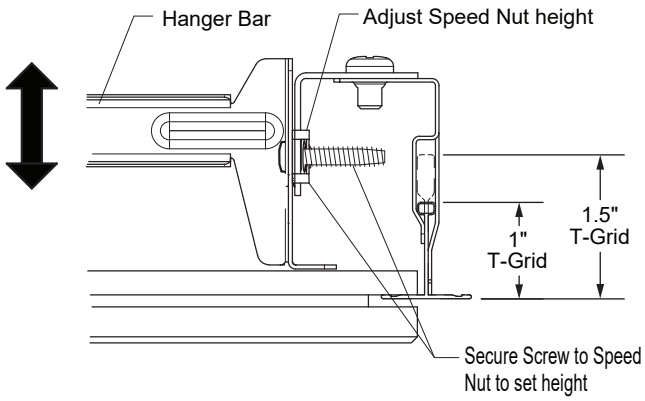
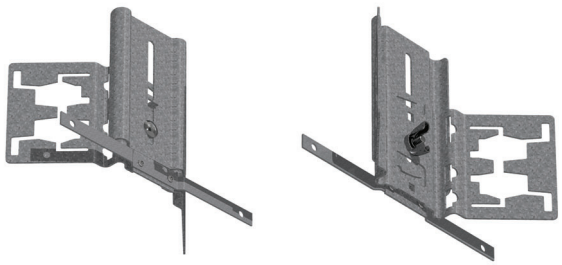


Fig. 6 Adjust vertical Housing height

INSTALLATION INSTRUCTIONS

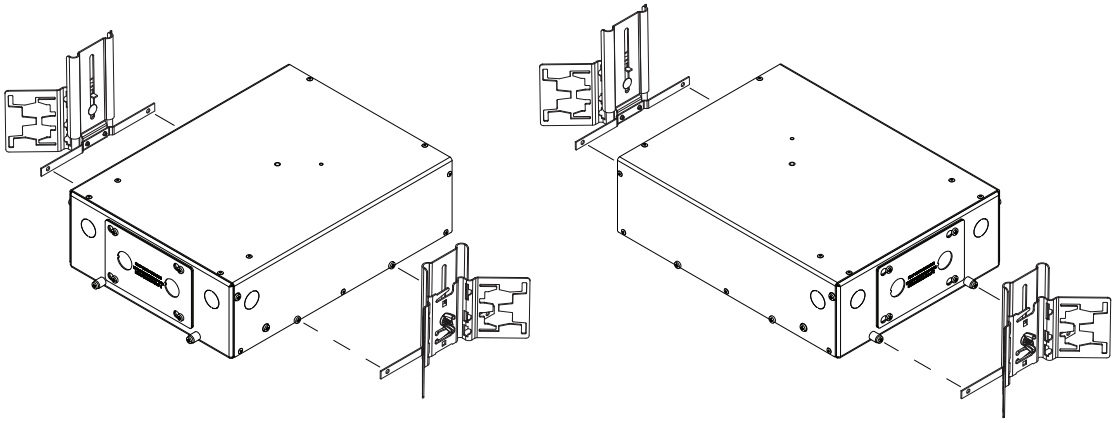
Model Series 804 / 804S

Butterfly Bracket for Commercial C-channel or Bar Mounting

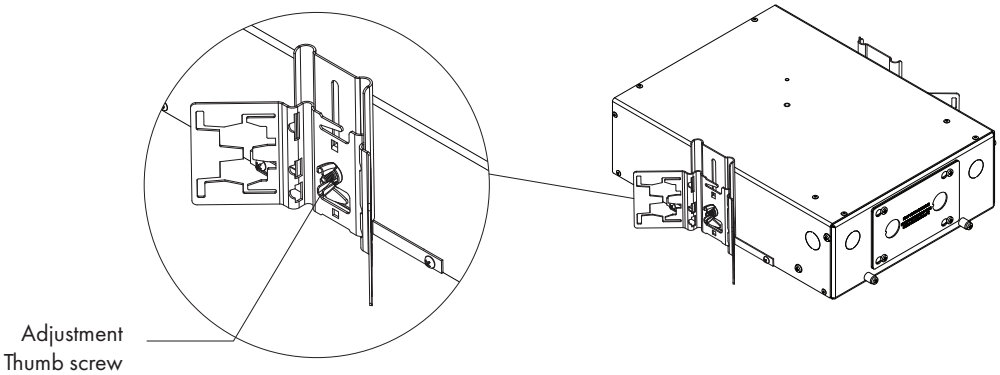


BB BUTTERFLY BRACKET (Set of 2)

STEP 1. Attach Butterfly Brackets to either ends or sides of mounting frame.

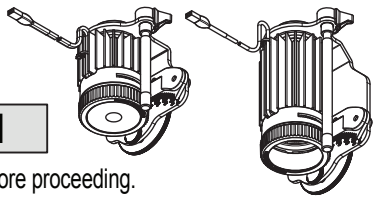


STEP 2. Slide c-channel or bar through bracket and adjust height with thumb screw.



LED Lamp Module Instructions

MODEL SERIES 804 / 804S



Lamp Module J2 & J2S Installation / Adjustment / Removal

⚠ **CAUTION:** ▶Turn off power at wall switch & review all instructions on this page before proceeding.
▶Always allow lamp module to cool before servicing.

Installation (not required if pre-installed into housing**):**

Step 1 Before installing Lamp Module, make sure correct LED Power Supply Module is installed & Lock Shaft is in unlocked position - FIG 1.1.

Step 2 Insert Lamp Module into housing as shown then adjust to 45° position to expose Fastener. Secure to Housing Center Nut or Stud - FIG 1.2 & 1.3.

Step 4 Plug Wire Connector from Lamp Module into Power Supply Module connector. Push wire up inside housing to avoid interference during adjustment - FIG 1.2.

Adjustment: Adjust desired horizontal position & vertical aiming angle as shown in FIG 1.4.

Removal : **To remove lamp module follow steps above in reverse order.**

Replacement: Contact Number Eight Lighting for replacement Lamp Module.

Optional Accessories: Unscrew Lamp Ring to add/ remove accessories - FIG 1.2.

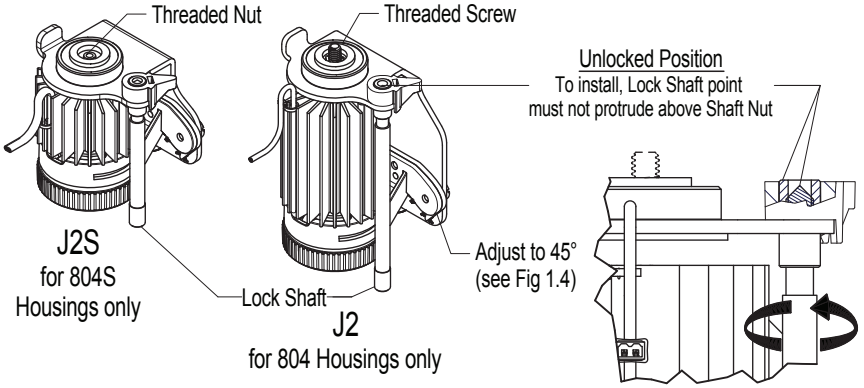


FIG. 1.1 Preparing Lamp Module J2 & J2S for installation

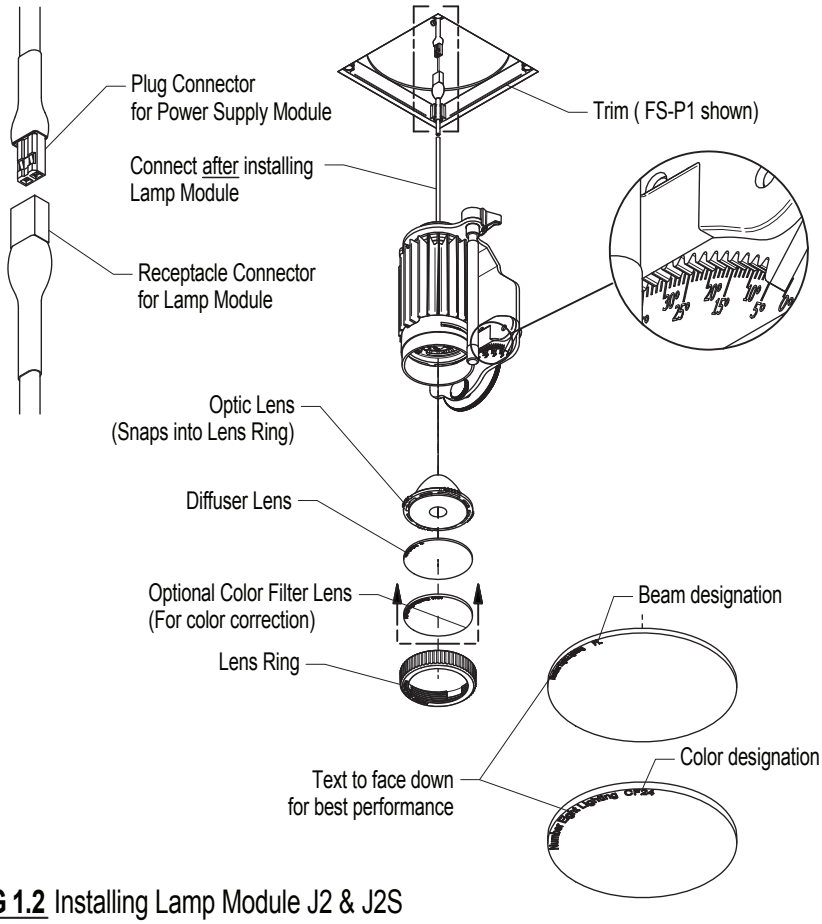
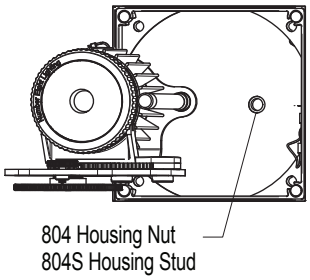


FIG 1.2 Installing Lamp Module J2 & J2S



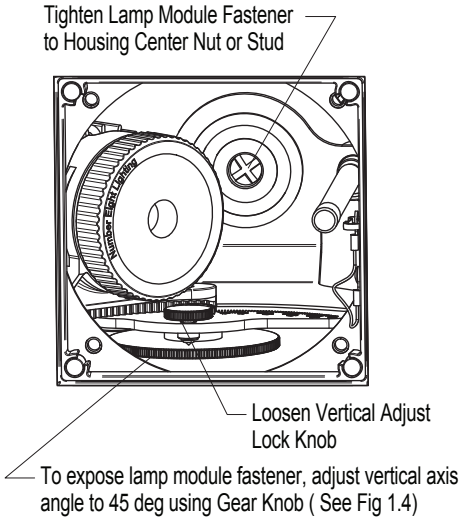


FIG. 1.3 Securing Lamp Module to Housing

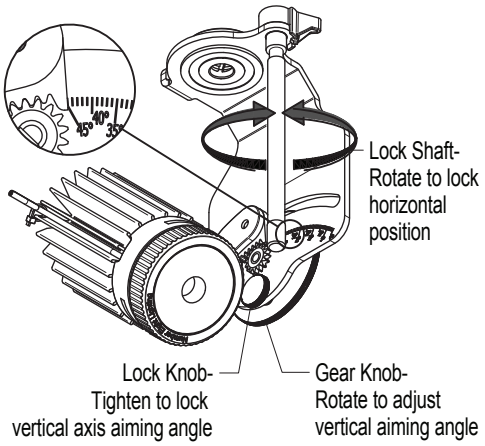
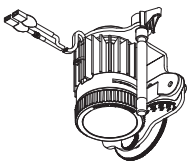


FIG 1.4 Aiming Adjustment

Lamp Module J2S-TW Installation/Adjustment/Removal Instructions

MODEL SERIES **804S**



CAUTION: ▶Turn off power at wall switch & review all instructions on this page before proceeding.
▶Always allow lamp module to cool before servicing.

Installation (not required if pre-installed into housing)**:**
Step 1 Before installing Lamp Module, make sure accessories & correct LED Power Supply Module are installed & Lock Shaft is in unlocked position - FIG 1.1 & 1.2.
Step 2 Insert Lamp Module into housing as shown then adjust to 45° position to expose fastener. Secure to Housing Center Stud - FIG 1.2 & 1.3.
Step 4 Plug Wire Connectors from Lamp Module into Power Supply Module connectors. Push wires up inside housing to avoid interference during adjustment - FIG 1.2.
Adjustment: Adjust desired horizontal position & vertical aiming angle as shown in FIG 1.4.
Removal: **To remove lamp module follow steps above in reverse order.**
Replacement: Contact Number Eight Lighting for replacement Lamp Module.
Optional Accessories: Unscrew Lamp Ring to add/ remove accessories - FIG 1.2.

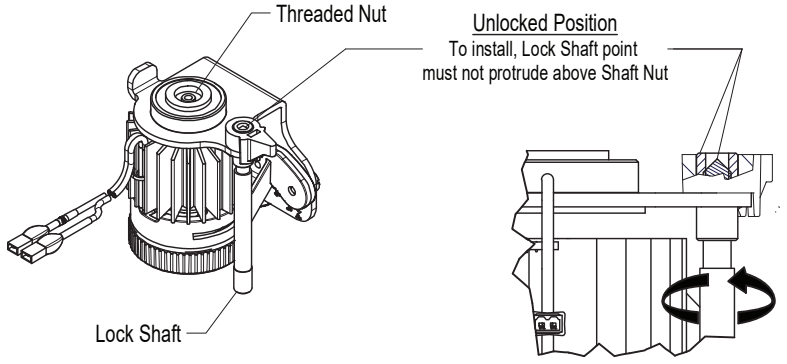


FIG. 1.1 Preparing Lamp Module J2S -TW for installation

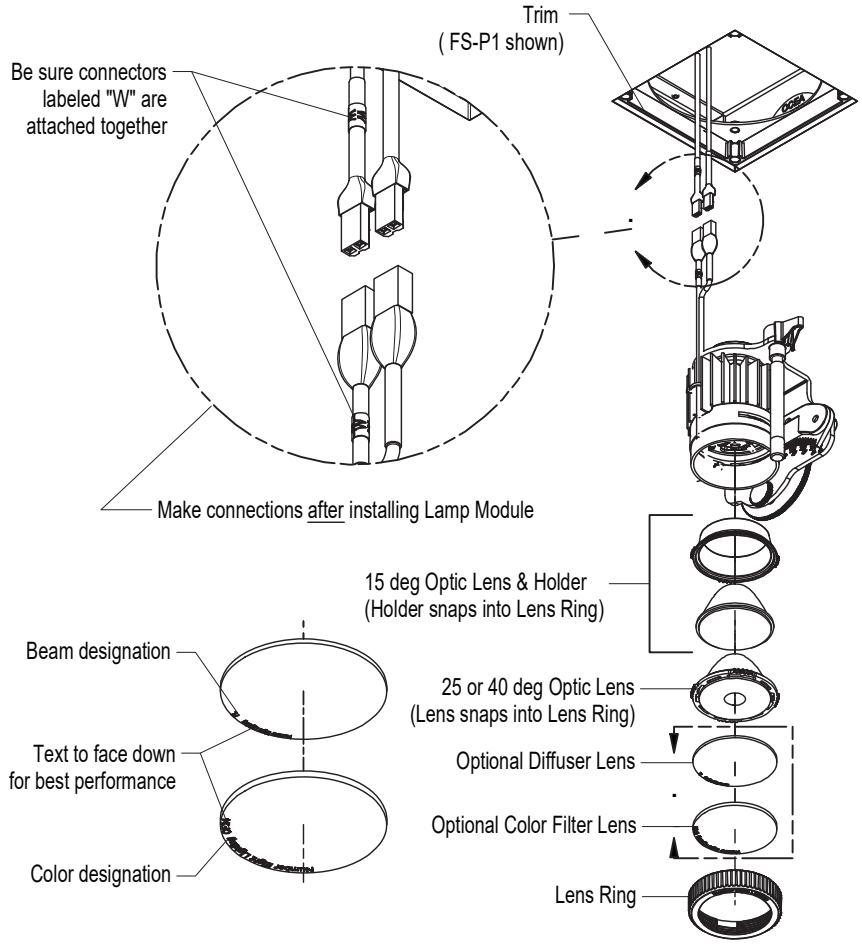


FIG 1.2 Installing Lamp Module J2S-TW

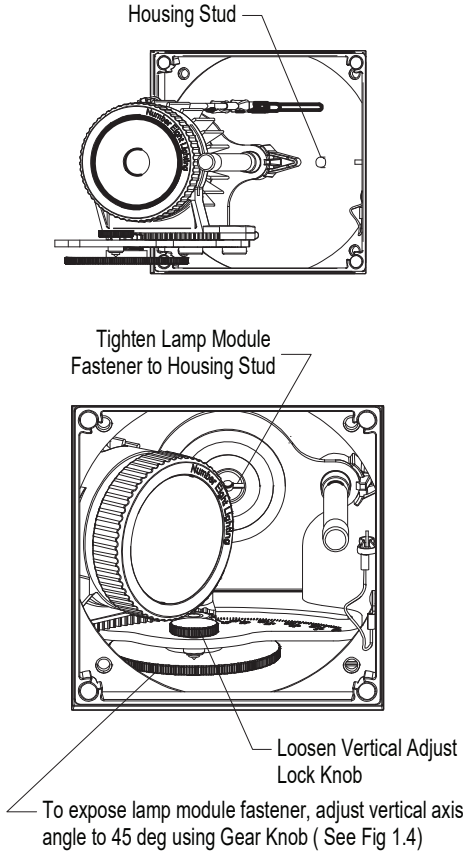


FIG. 1.3 Securing Lamp Module to Housing

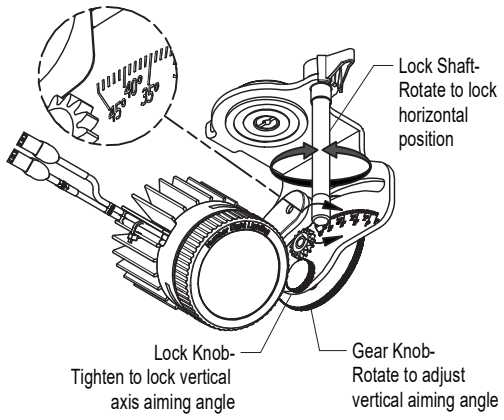
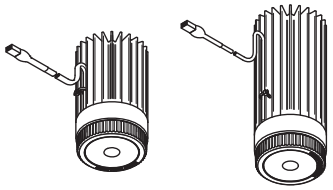


FIG 1.4 Aiming Adjustment

Lamp Module K2 & K2S -Installation/Removal

MODEL SERIES 804 / 804S



CAUTION:

- ▶Turn off power at wall switch & review all instructions on this page before proceeding.
- ▶Always allow lamp module to cool before servicing.

Installation (not required if pre-installed into housing)**:**

Step 1 Before installing Lamp Module, make sure the LED Power Supply Module is installed (shown on page 5).

Step 2 Pull Power Module Connector through opening & insert Lamp Module into housing as shown. Secure Lamp Module to Housing Nut or Stud & hand tighten - Fig 2.1 & 2.2.

Step 3 Plug Wire Connector from Lamp Module into Power Supply Module connector. Push wire up inside housing to avoid interference with LED - Fig 2.2.

Removal: To remove lamp module follow steps above in reverse order.

Replacement: Contact Number Eight Lighting for replacement Lamp Module.

Optional Accessories: Unscrew Lamp Ring to add/remove accessories- Fig 2.1.

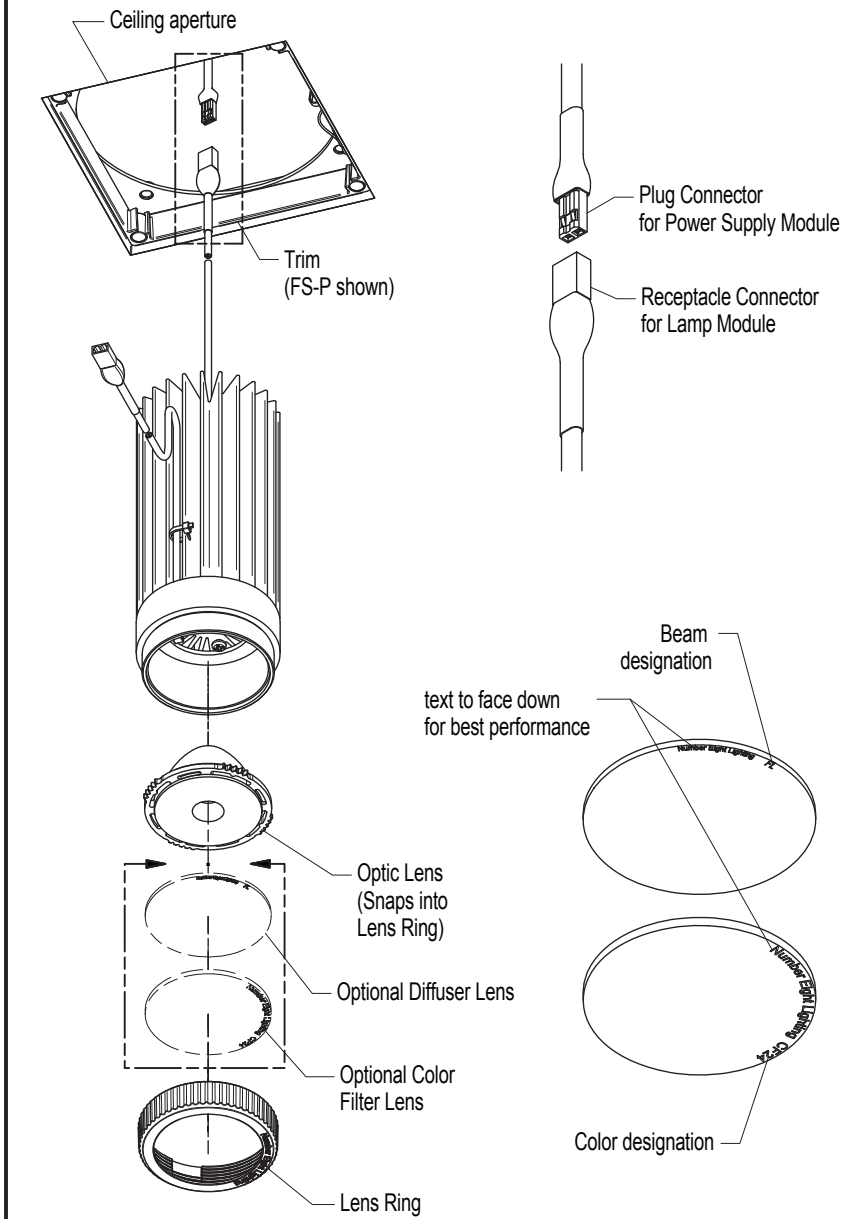


FIG 2.1 Installing Lamp Module K2 / K2S & Accessories

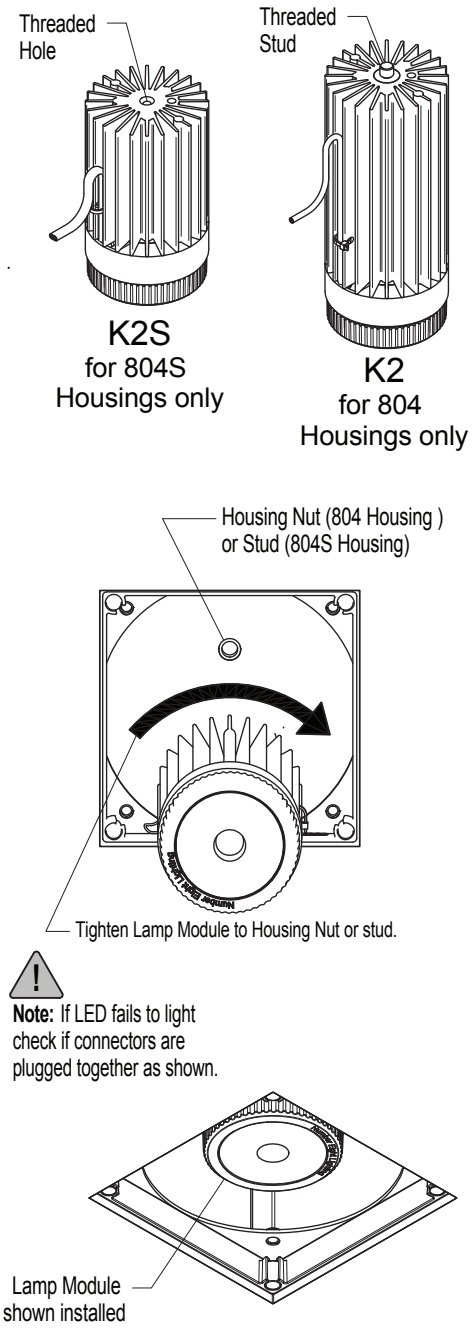
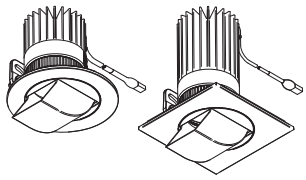


FIG. 2.2 Securing Lamp Module K2 & K2S to Housing

Lamp Module M2 & M2S Installation / Adjustment / Removal

MODEL SERIES 804 / 804S



CAUTION: ⚠

- ▶Turn off power at wall switch & review all instructions on this page before proceeding.
- ▶Always allow lamp module to cool before servicing.

Installation:

Step 1 Before installing Lamp Module M2 or M2S, make sure LED Power Supply Module is installed (shown on page 9).
Note: For use of M2 & M2S with Sloped Ceilings Only-See recommended Housing installation orientation - FIG 4.1

Step 2 Adjust vertical to 90°position as shown in Fig. 4.3. Note: angle adjustment is limited on ceilings over 5/8" thick & when Mirror Reflector is aligned facing narrow sides of Housing.

Step 3 Plug Wire Connector from Lamp Module into Power Supply Module Connector. Push wire up inside Housing to avoid interference during installation - Fig 4.4.

Step 4 Choose general aiming position desired. Attach Safety Cable from Trim Cable Clip to Lamp Module before inserting Lamp Module into Housing aperature. Seat Trim Plate into Trim.

Note: horizontal & vertical aiming position adjustment is lockable using Lock Knobs. General aiming position is easily changed by pulling Lamp Module out slightly & rotating into one of 4 positions - Fig 4.2 & 4.3.

Removal: To remove Lamp Module follow steps above in reverse order.

Replacement: Contact Number Eight Lighting for replacement LED Engine Subasy. Remove Lamp Module & unscrew LED Engine Subasy for replacement.

Optional Accessories: Unscrew LED Engine Subasy to add/remove Lens accessories - Fig 4.2.

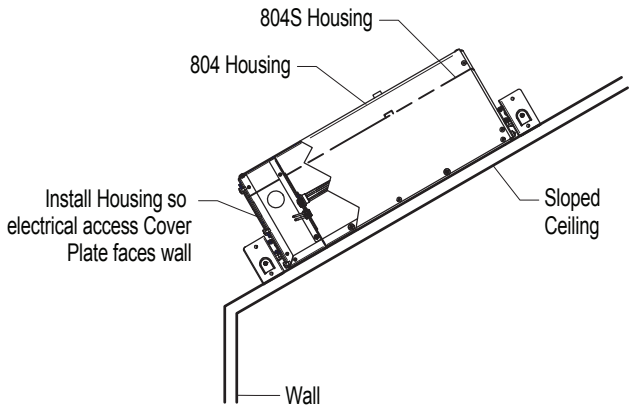


FIG 4.1 Recommended Housing Orientation for Sloped Ceiling

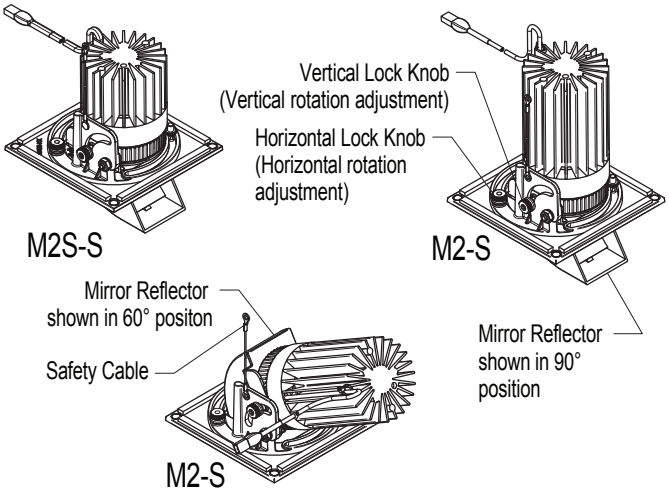


FIG. 4.3 Lamp Module Adjustment

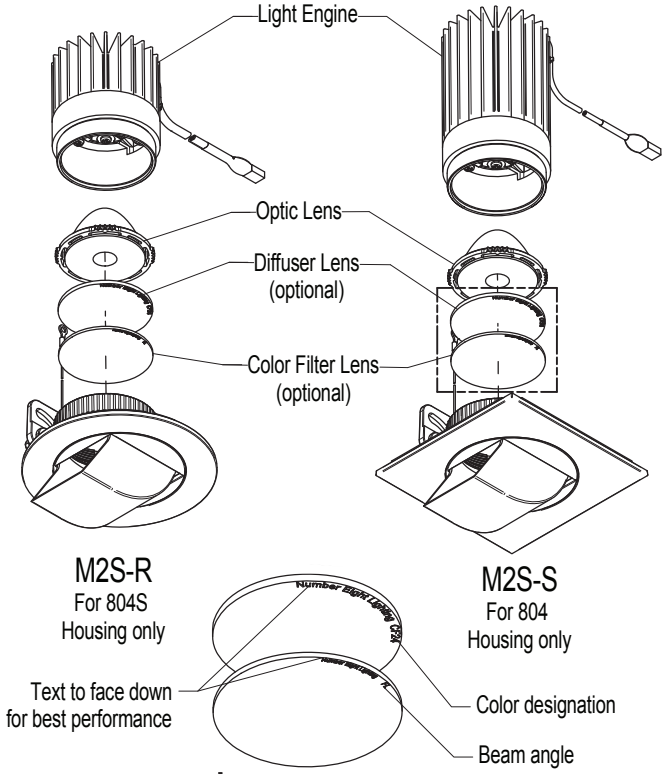
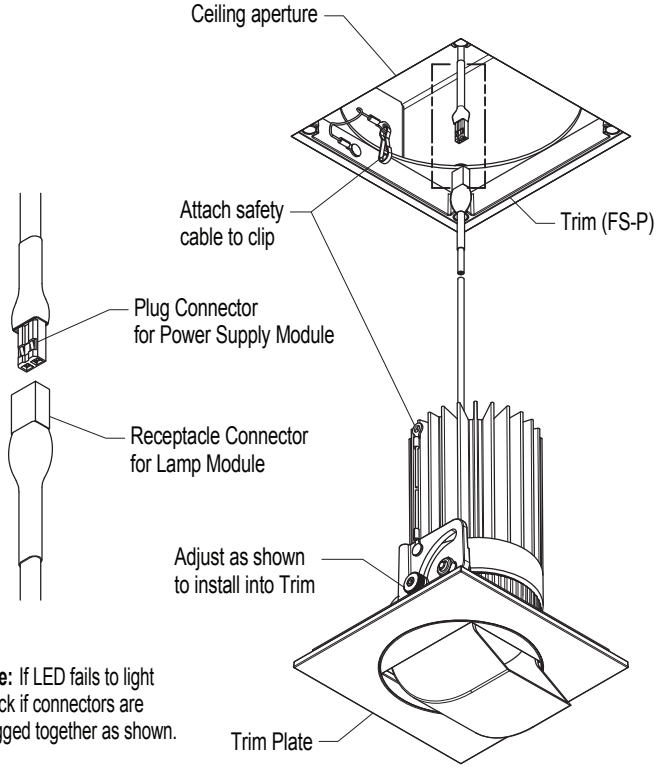


FIG 4.2 Installing Lamp Module Accessories

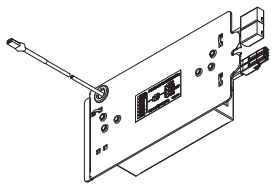


Note: If LED fails to light check if connectors are plugged together as shown.

FIG. 4.4 Securing Lamp Module to Housing & Trim

LED Power Supply Module Removal / Replacement

MODEL SERIES 804 / 804S



CAUTION: ⚠
- ▶Disconnect power at circuit breaker or fuse panel before proceeding.
- ▶Always allow Lamp & Power Supply Module to cool before removing.

To remove LED Power Supply Modules

Step 1 To access Power Supply Module the Lamp Module must first be removed (For Lamp Modules refer to Pages 1-4).

Step 2 Unscrew & remove Thumb Knob inside Housing as shown. Tilt Power Supply Module to disengage offset tab from housing as shown-FIG 5.1.

Step 3 Pull Power Supply Module away from threaded stud and pull wires & Power Connectors out of the Junction Box-FIG 5.2.

Step 4 Disconnect Power Supply Connectors. For models with 0-10 drivers, also disconnect purple & gray wires-FIG 5.2.

Step 5 Pull Power Supply Module through aperture-FIG 5.3.

For Replacement: Replace all parts in steps above in reverse order. Push all wires into wiring compartment & replace Power Supply Module as shown in FIG 5.4.

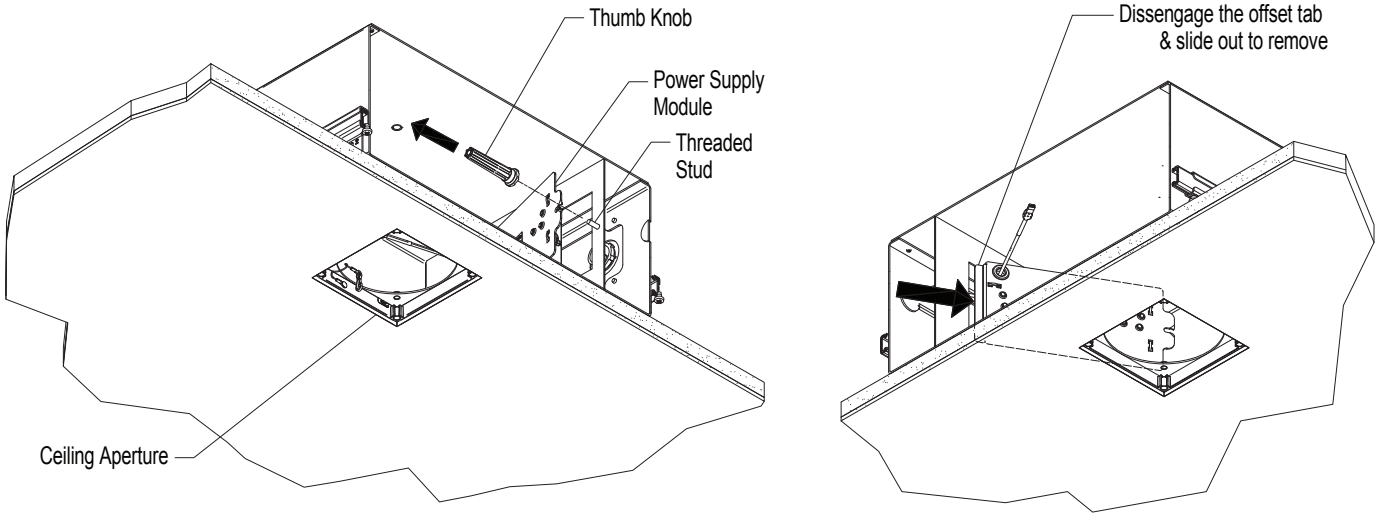


FIG 5.1 Remove Thumb Knob & Disengage Power Supply Module (Model 804 shown)

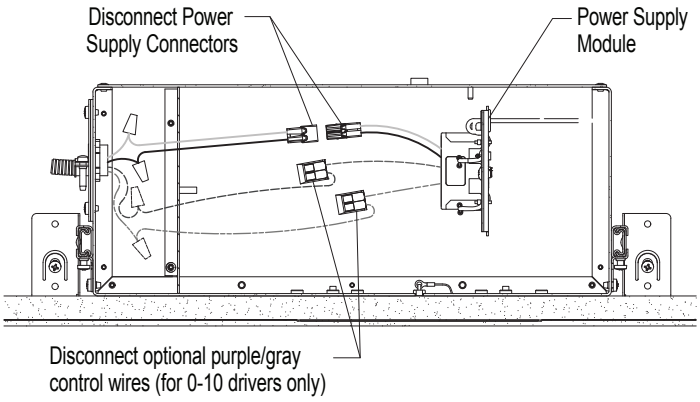


FIG 5.2 Remove Power Supply Module & disconnect wires

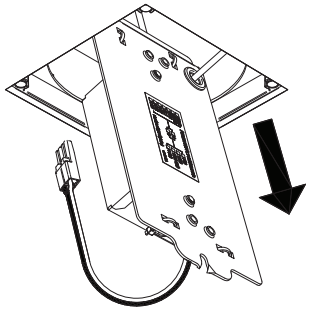
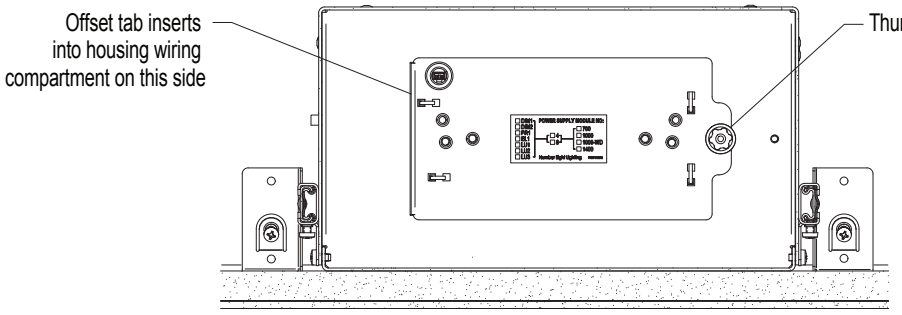


FIG 5.3 Pass Power Supply Module Through Aperture



CAUTION: Be sure all wires & connectors are safely pushed inside wiring compartment before tightening Knob.

FIG 5.4 Replace Power Supply Module & Secure With Thumb Knob (Model 804 Housing shown)

WIRING INSTRUCTIONS - 804 / 804S Single & Multi-Lamp

For DIM1 / DIM2 / PR1 / EL1 / EL2 / LU1 / LU2 / LU4 Dimming Options

CAUTION: TO AVOID RISK OF FIRE OR ELECTRIC SHOCK

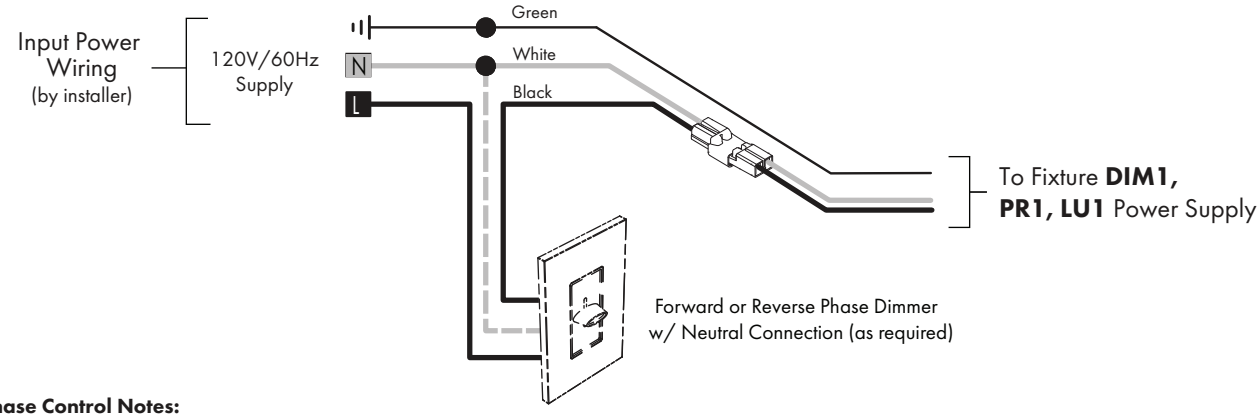
Turn off power at circuit breaker or fuse panel & read instructions completely before proceeding.
Failure to follow instructions may void warranty. Save these instructions.

- Installation must be by a qualified electrician only and must conform to National Electric code and local regulations.
- Verify correct dimming system, lamp module, power supply type, and input supply requirements.
- Always allow LED assembly to cool before servicing.
- Do not install where insulation or ambient temperatures will exceed maximum values noted in product specifications. See www.8lighting.com for current product specifications.
- For multi-lamp refer to lighting plan to determine lamp circuit control configuration.

Single Lamp Wiring

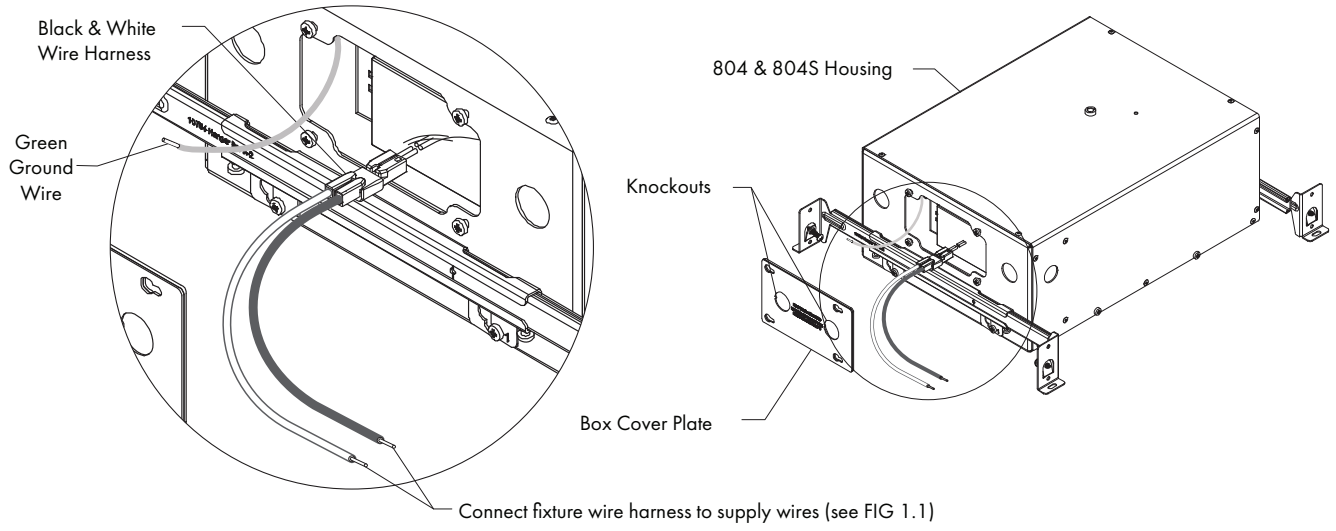
DIM1 / PR1/ LU1 - PHASE CONTROL

1. Loosen screws to remove cover plate & connect driver output wires using electrical connectors at wiring compartment – FIG 1.2.
2. Remove required knockouts in cover plate or housing & secure suitable electrical connectors into knock outs for supply wires – FIG 1.2.
3. Make wire connections & push all wires & connections completely inside wiring compartment – FIG 1.1 & 1.2.
4. Replace & secure box cover plate using screws provided – FIG 1.2.



Phase Control Notes:
DIM1 / PR1 drivers are Forward or Reverse Phase dimmable.
For compatible dimmers for use with **DIM1 / PR1** drivers see: ww.8lighting.com/resources-downloads
LU1 drivers are Forward Phase dimmable only.
For compatible dimmers for use with **LU1** drivers, contact Lutron LED Center of Excellance at 1.877.346.5338 or LEDs@lutron.com

FIG 1.1 Wiring Diagram



NOTE: For compatible dimmers for use with **DIM1 / PR1** drivers see www.8lighting.com/resources-downloads/
For compatible dimmers for use with **LU1** drivers, contact Lutron customer assistance at 1.877.346.5338 or LEDs@lutron.com

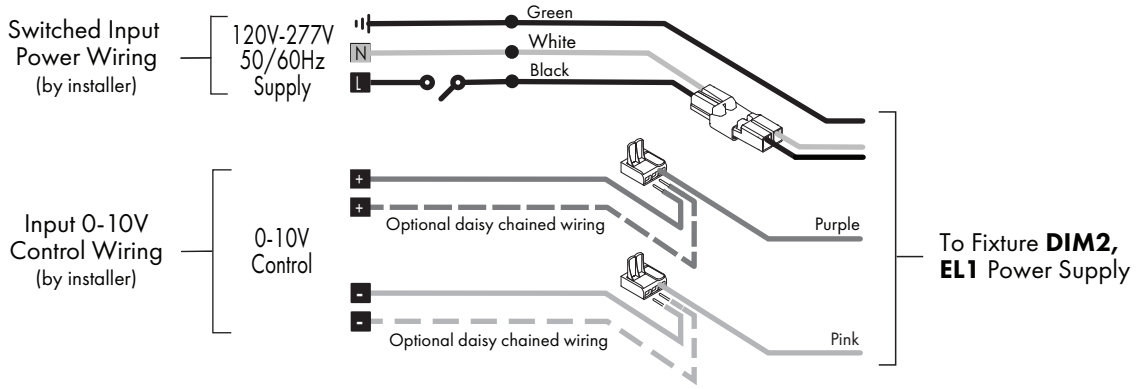
FIG 1.2 Wire Connections

WIRING INSTRUCTIONS (Continued)

804/804S Single Lamp Wiring

DIM2 / EL1 - 0-10V CONTROL

1. Loosen screws to remove cover plate & connect driver output wires using electrical connectors at wiring compartment – FIG 2.2.
2. Remove required knockouts in cover plate or housing & secure suitable electrical connectors into knock outs for supply wires – FIG 2.2.
3. Make wire connections & push all wires & connections completely inside wiring compartment – FIG 2.1 & 2.2.
4. Replace & secure box cover plate using screws provided – FIG 2.2.



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** drivers see: www.8lighting.com/resources-downloads .

FIG 2.1 Wiring Diagram

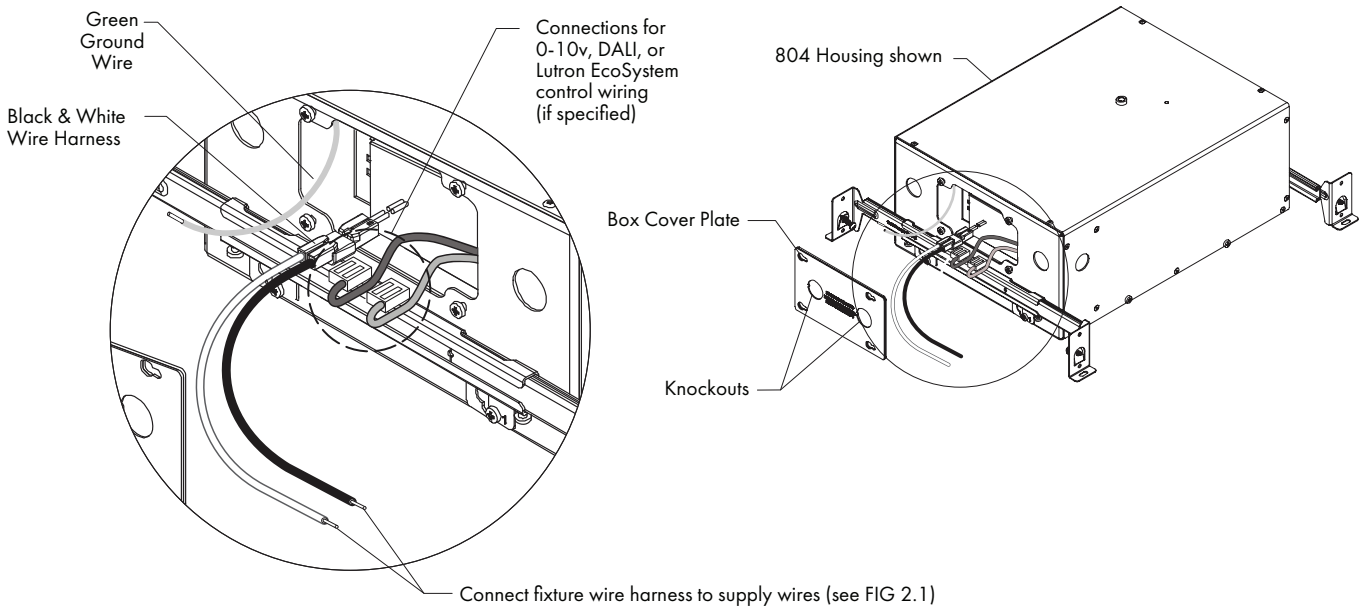


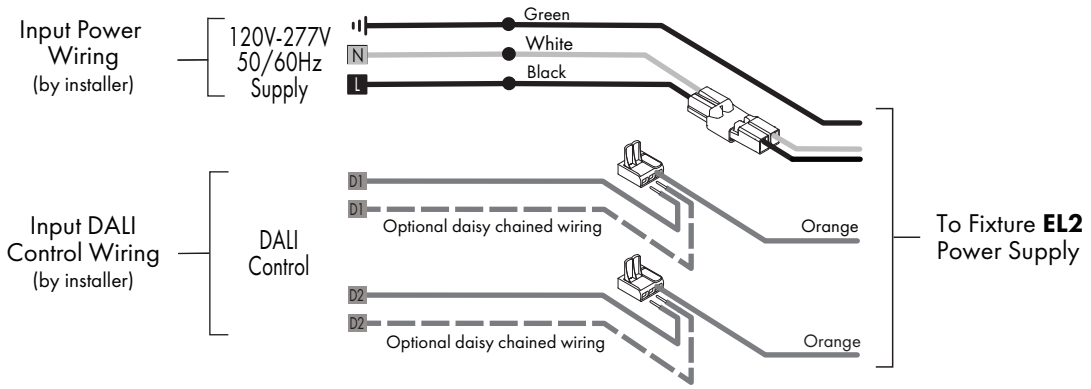
FIG 2.2 Wire Connections

WIRING INSTRUCTIONS (Continued)

804/804S Single Lamp Wiring

EL2 - DALI CONTROL

1. Loosen screws to remove cover plate & connect driver output wires using electrical connectors at wiring compartment – FIG 3.2.
2. Remove required knockouts in cover plate or housing & secure suitable electrical connectors into knock outs for supply wires – FIG 3.2.
3. Make wire connections & push all wires & connections completely inside wiring compartment – FIG 3.1 & 3.2.
4. Replace & secure box cover plate using screws provided – FIG 3.2.



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

FIG 3.1 Wiring Diagram

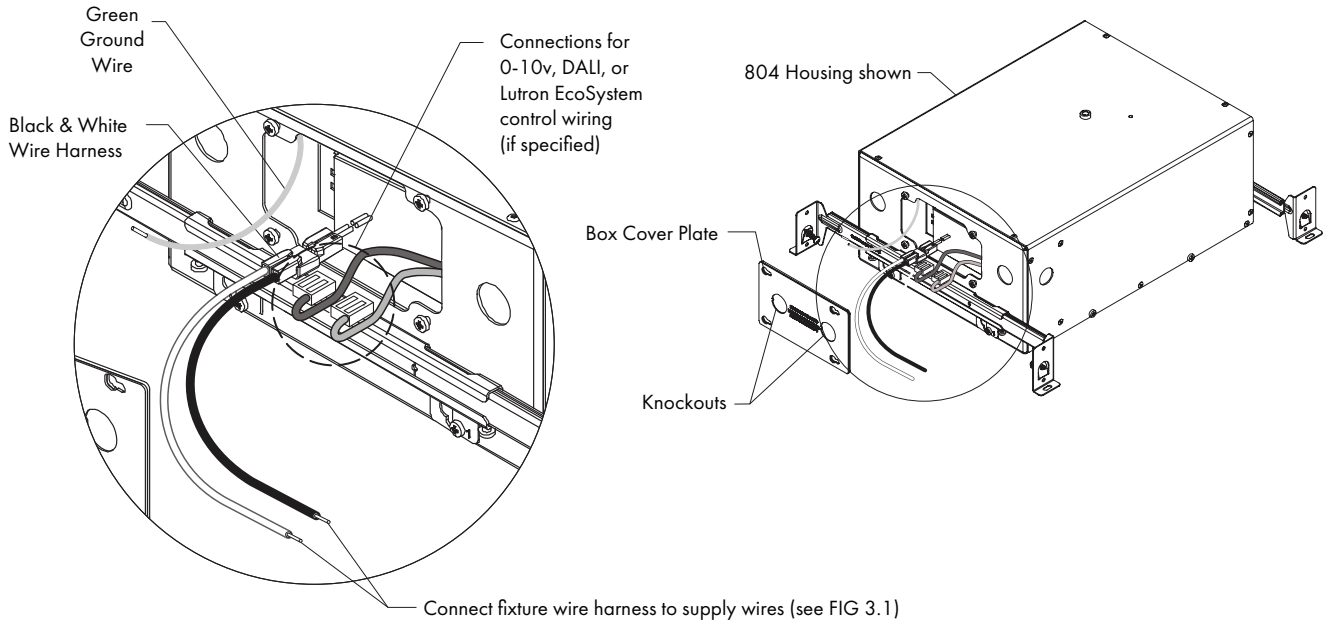


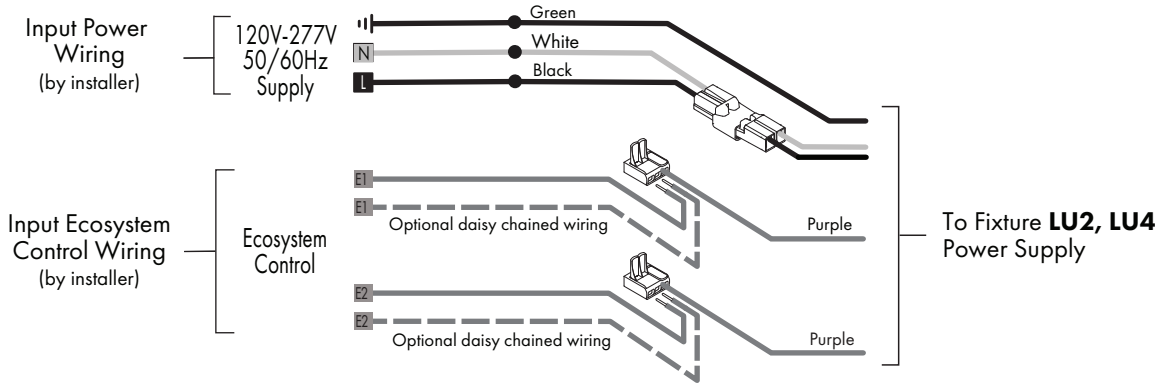
FIG 3.2 Wire Connections

WIRING INSTRUCTIONS (Continued)

804/804S Single Lamp Wiring

LU2 / LU4 - LUTRON ECOSYSTEM CONTROL

1. Loosen screws to remove cover plate & connect driver output wires using electrical connectors at wiring compartment – FIG 4.2.
2. Remove required knockouts in cover plate or housing & secure suitable electrical connectors into knock outs for supply wires – FIG 4.2.
3. Make wire connections & push all wires & connections completely inside wiring compartment – FIG 5.1 & 5.2.
4. Replace & secure box cover plate using screws provided – FIG 5.1.



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

FIG 4.1 Wiring Diagram

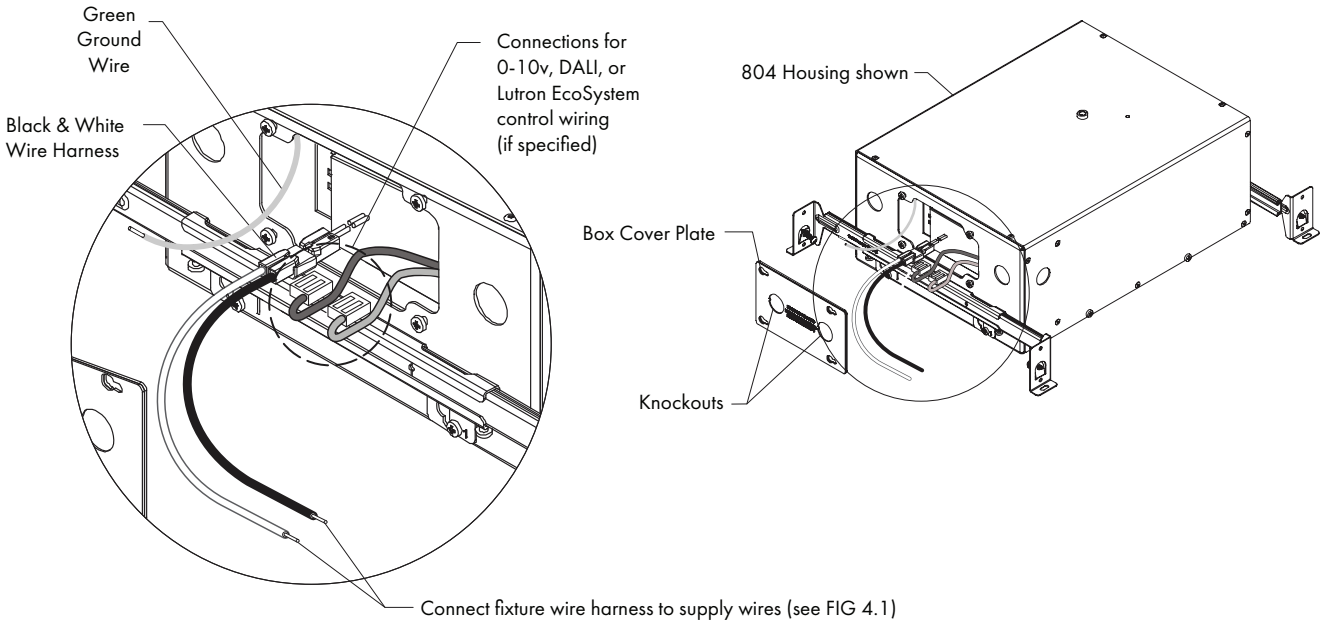


FIG 4.2 Wire Connections

WIRING INSTRUCTIONS (Continued)

804S Multi Lamp Wiring

For **DIM1 / PR1 / LU1 / DIM2 / EL1 / EL2 / LU2 / LU4** Dimming Options

1. Loosen screws to remove cover plate.
2. Remove required knockouts in cover plate or housing & secure suitable electrical connectors into knock outs for supply wires – FIG 5.1.
3. Make wire connections shown below & push all wires & connections completely inside wiring compartment – FIG 5.1 & 5.2.
4. Check circuit continuity using holes in terminal blocks – FIG 5.2.
5. Replace & secure box cover plate using screws provided – FIG 5.1.

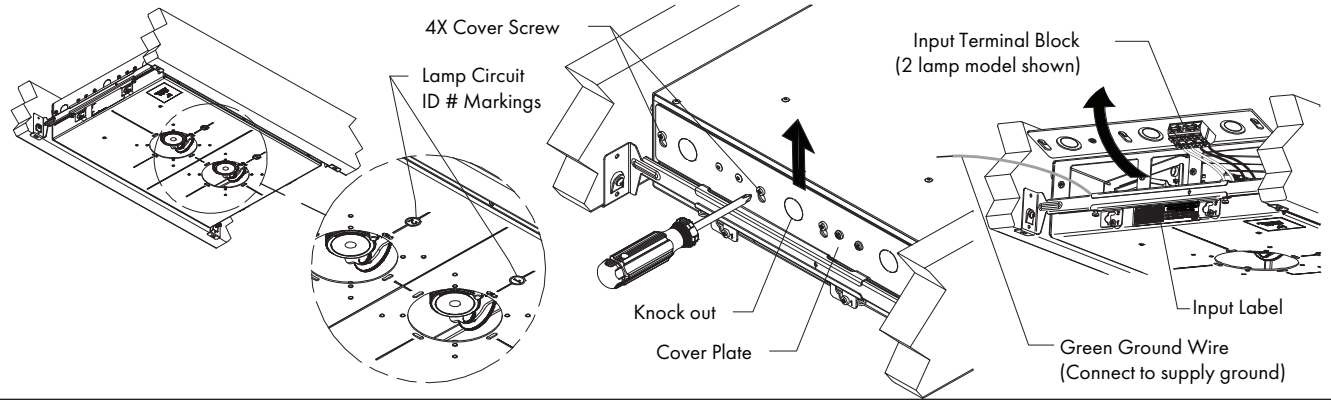
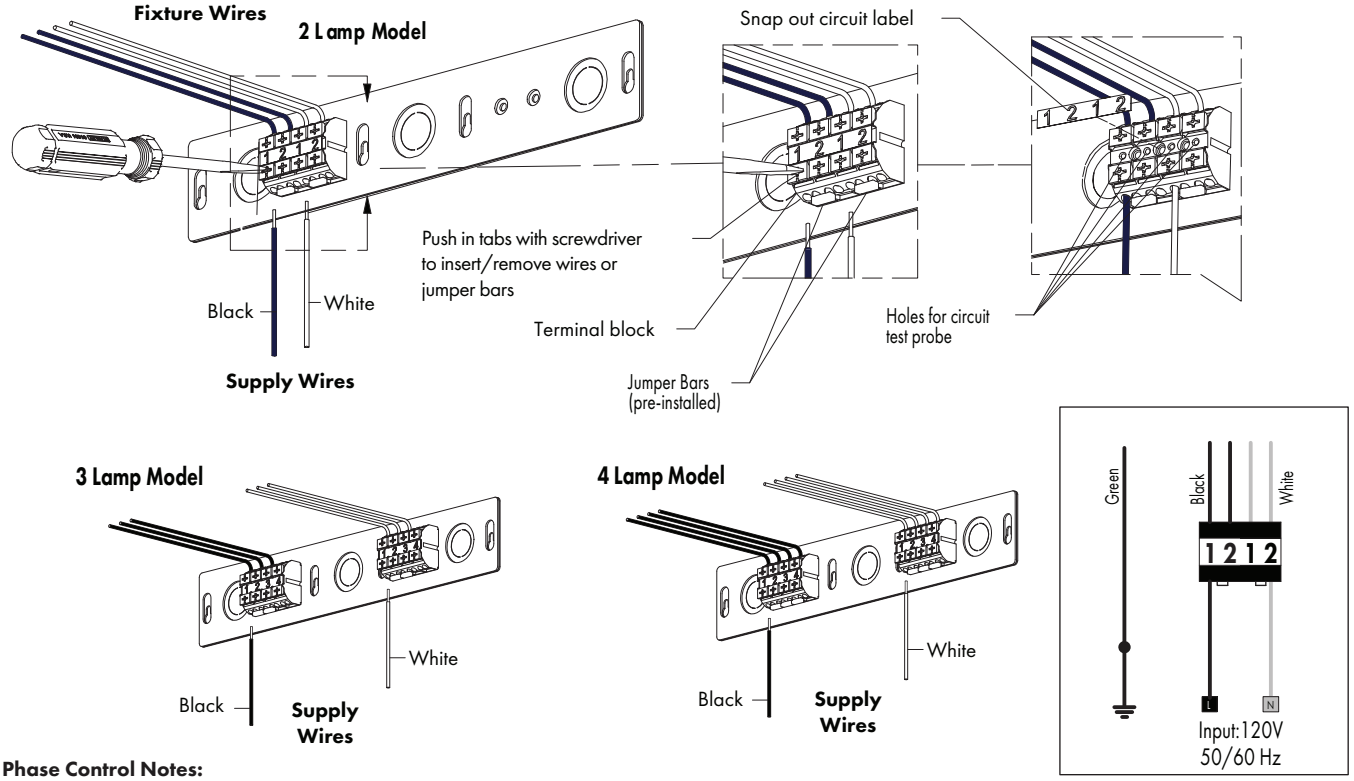


FIG 5.1 Terminal Block Access

804S Multi-Lamp Wiring - All Lamps Controlled Together

DIM1/PR1/LU1 - PHASE CONTROL



Phase Control Notes:
DIM1 / PR1 drivers are Forward or Reverse Phase dimmable.
For compatible dimmers for use with **DIM1 / PR1** drivers see: www.8lighting.com/resources-downloads
LU1 drivers are Forward Phase dimmable only.
For compatible dimmers for use with **LU1** drivers, contact Lutron LED Center of Excellance at 1.877.346.5338 or LEDs@lutron.com

FIG 5.2 Connect Wiring

WIRING INSTRUCTIONS (Continued)

804S Multi-Lamp Wiring - All Lamps Controlled Together

DIM2 / EL1 - O-10V CONTROL

1. Ensure jumper bars are installed in terminal blocks as shown - FIG 6.1.
2. Make wire connections noting individual lamp circuit numbers – FIG 6.2 & 6.3.
3. Check circuit continuity using holes in terminal blocks – FIG 6.4.
4. Push all wires completely inside wiring compartment – FIG 5.1 (page 5).
5. Replace & secure box cover plate using screws provided – FIG 5.1 (page 5).

2 Lamp Model	3 Lamp Model	4 Lamp Model

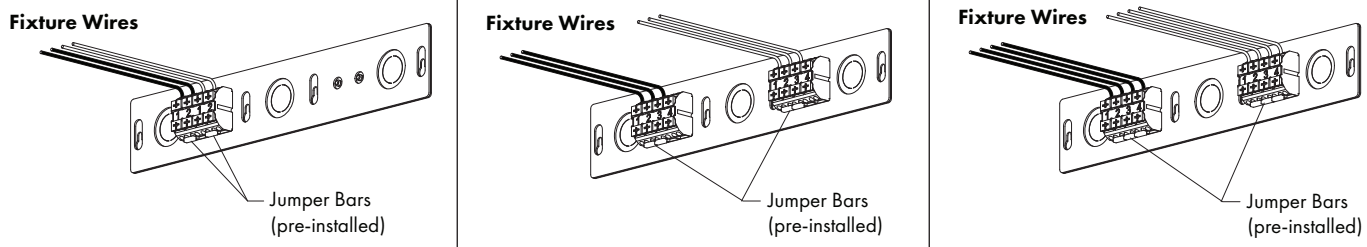


FIG 6.1 Jumper Bars

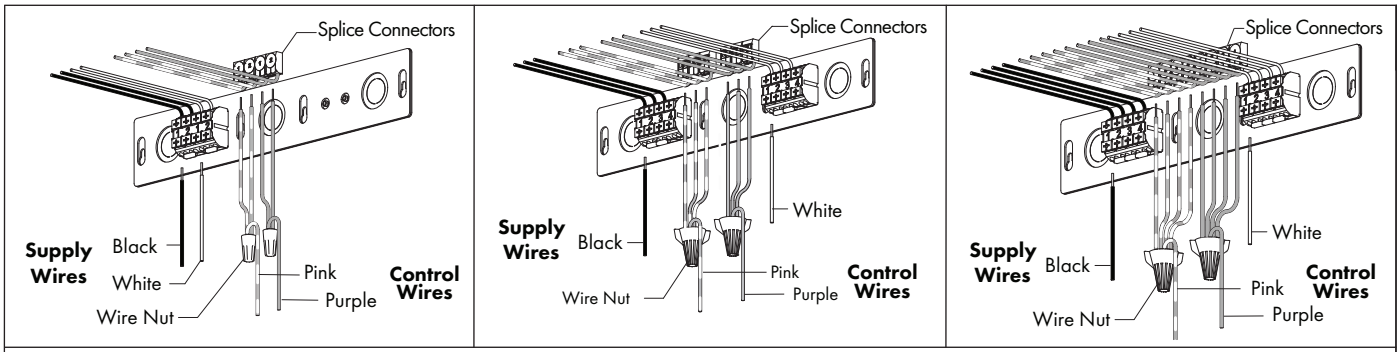


FIG 6.2 Attach Supply & Control Wires

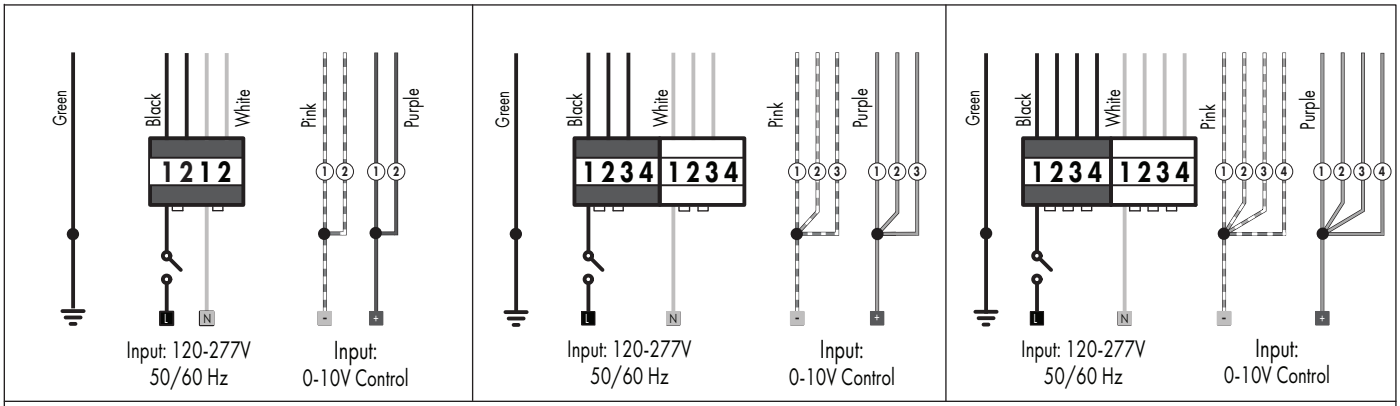
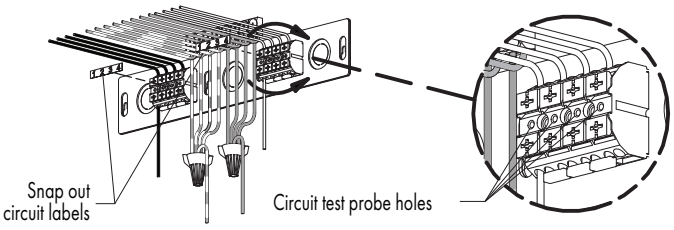


FIG 6.3 Wiring Schematics



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** drivers, see: www.8lighting.com/resources-downloads.

FIG 6.4 Accessing Circuit Probe Holes

WIRING INSTRUCTIONS (Continued)

804S Multi-Lamp Wiring - Individual Lamp Control

DIM1 / PR1 / LU1 - PHASE CONTROL

1. Remove jumper bars from terminal blocks as needed for individual lamp control - FIG 7.1.
2. Make wire connections noting individual lamp circuit numbers – FIG 7.2 & 7.3.
3. Check circuit continuity using holes in terminal blocks – FIG 6.4.
4. Push all wires completely inside wiring compartment – FIG 5.1 (page 5).
5. Replace & secure box cover plate using screws provided – FIG 5.1 (page 5).

2 Lamp Model	3 Lamp Model	4 Lamp Model

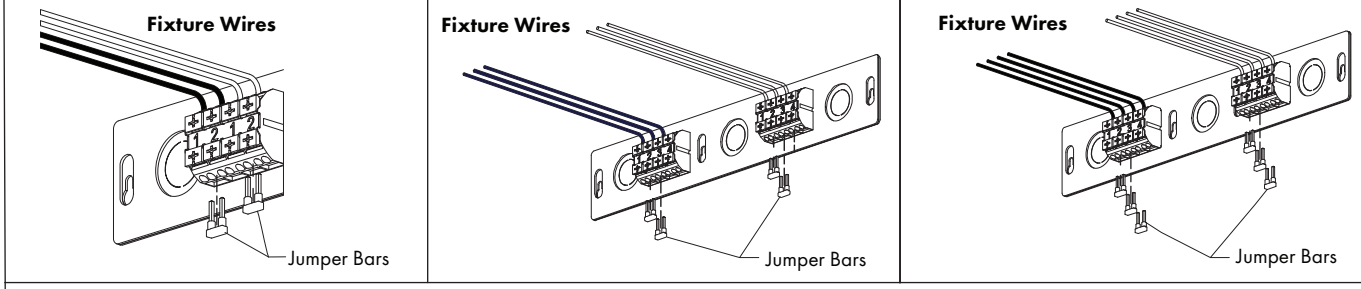


FIG 7.1 Remove Jumper Bars

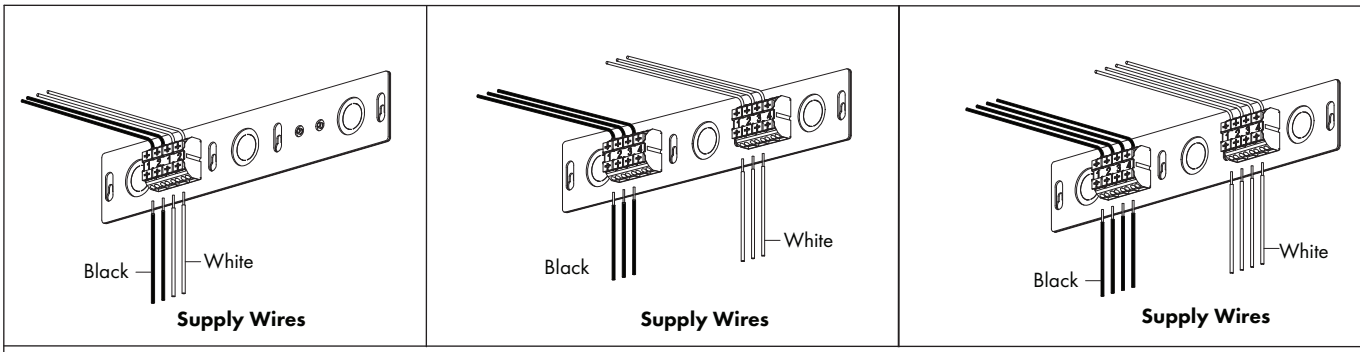


FIG 7.2 Attach Supply Wires

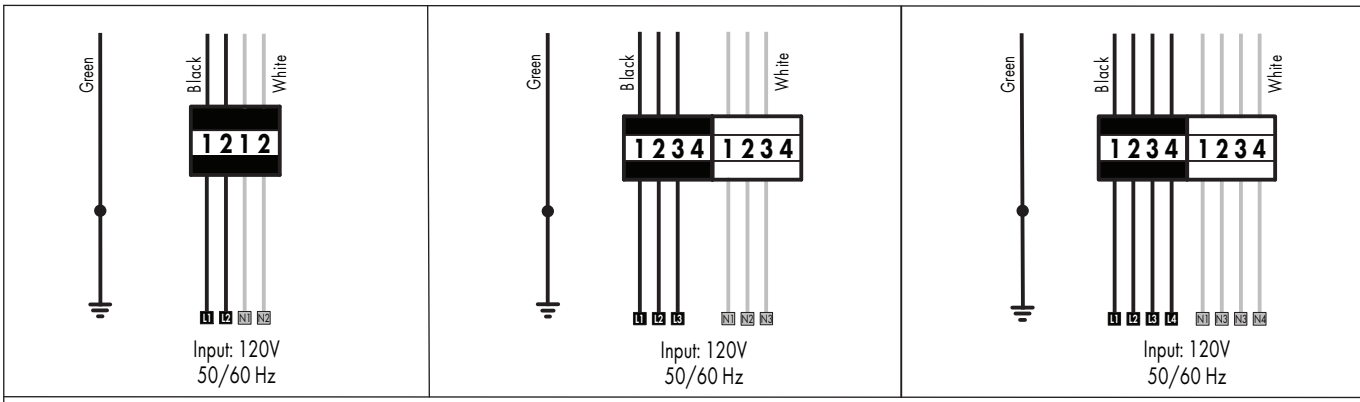
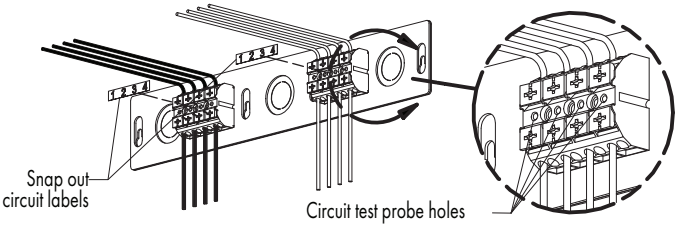


FIG 7.3 Wiring Schematics



Phase Control Notes:
DIM1 / PR1 drivers are Forward or Reverse Phase dimmable.
For compatible dimmers for use with **DIM1 / PR1** drivers see:
www.8lighting.com/resources-downloads
LU1 drivers are Forward Phase dimmable only. For compatible dimmers for use with **LU1** drivers, contact Lutron LED Center of Excellance at 1.877.346.5338 or LEDs@lutron.com

FIG 7.4 Accessing Circuit Probe Holes

WIRING INSTRUCTIONS (Continued)

804S Multi-Lamp Wiring - Individual Lamp Control

DIM2 / EL1 - 0-10V CONTROL

1. Remove jumper bars to terminal blocks as needed for individual lamp control - FIG 8.1.
2. Make wire connections noting individual lamp circuit numbers – FIG 8.2 & 8.4.
3. Check circuit continuity using holes in terminal blocks – FIG 8.4.
4. Push all wires completely inside wiring compartment – FIG 5.1 (page 5).
5. Replace & secure box cover plate using screws provided – FIG 5.1 (page 5).

2 Lamp Model	3 Lamp Model	4 Lamp Model

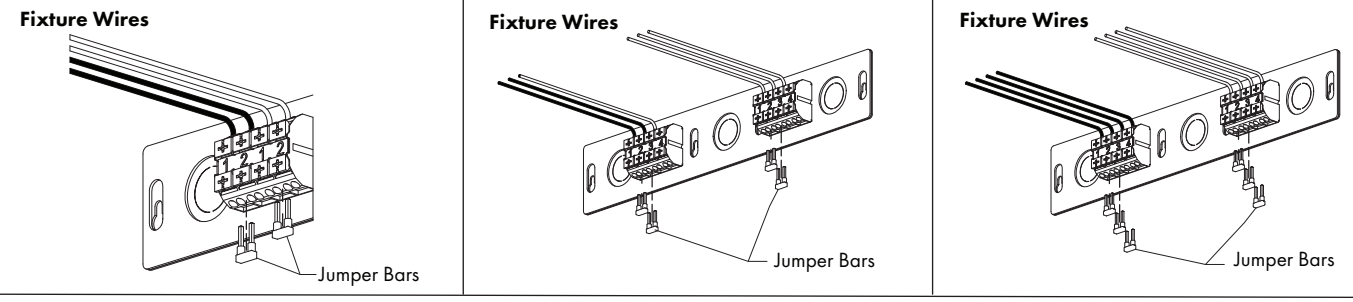


FIG 8.1 Remove Jumper Bars

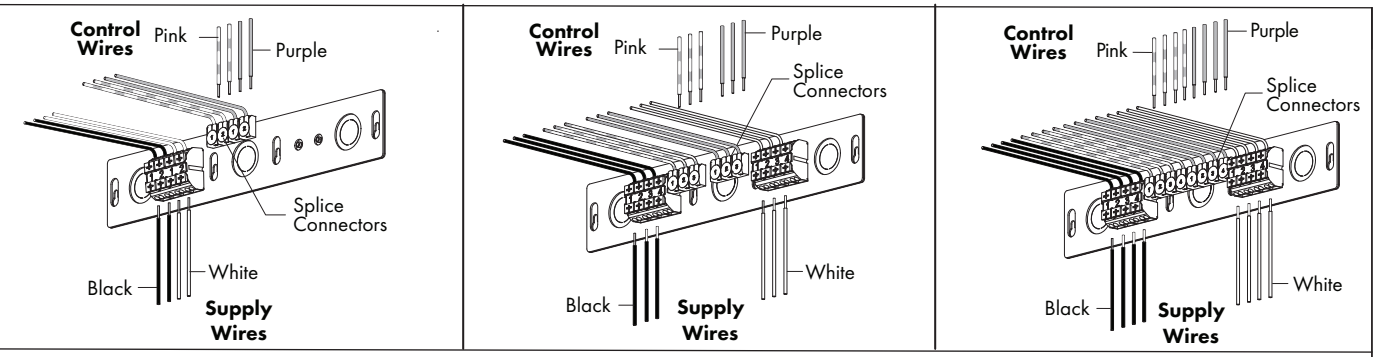


FIG 8.2 Attach Supply & Control Wires

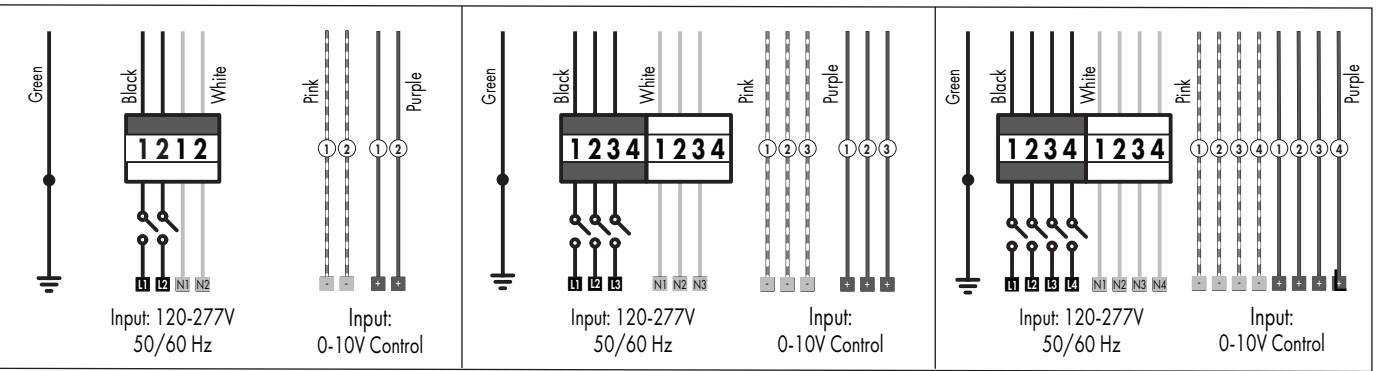
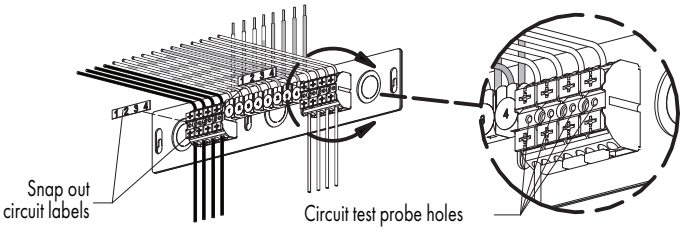


FIG 8.3 Wiring Schematics



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** drivers, see: www.8lighting.com/resources-downloads.

FIG 8.4 Accessing Circuit Probe Holes

WIRING INSTRUCTIONS (Continued)

804S Multi-Lamp Wiring - All Lamps Controlled Together or Individually

EL2 - DALI CONTROL

1. Ensure jumper bars are installed in terminal blocks as shown - FIG 9.1.
2. Make wire connections noting individual lamp circuit numbers – FIG 9.2.
3. Check circuit continuity using holes in terminal blocks – FIG 9.4.
4. Push all wires completely inside wiring compartment – FIG 5.1 (page 5).
5. Replace & secure box cover plate using screws provided – FIG 5.1 (page 5).

2 Lamp Model	3 Lamp Model	4 Lamp Model

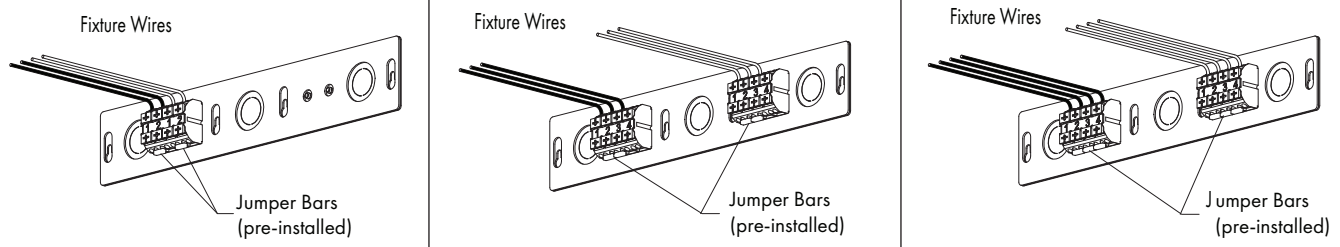


FIG 9.1 Jumper Bars

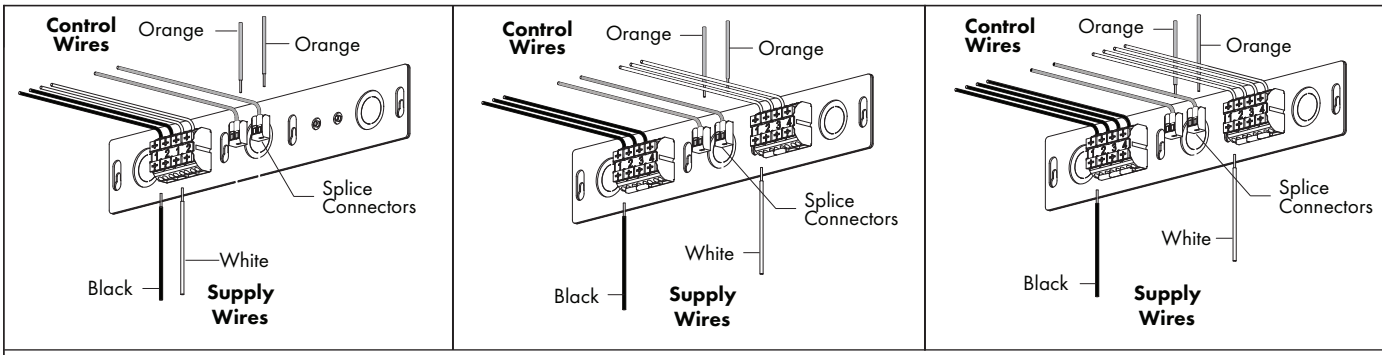


FIG 9.2 Attach Supply & Control Wires

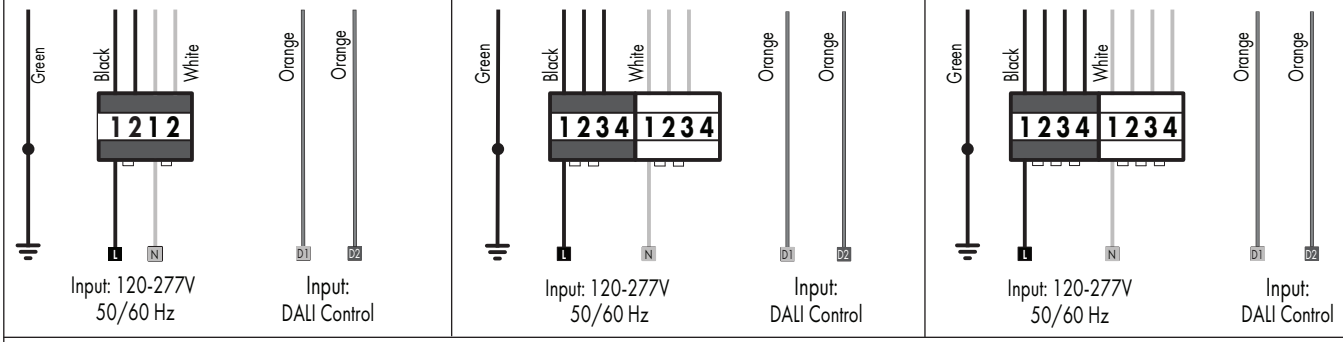
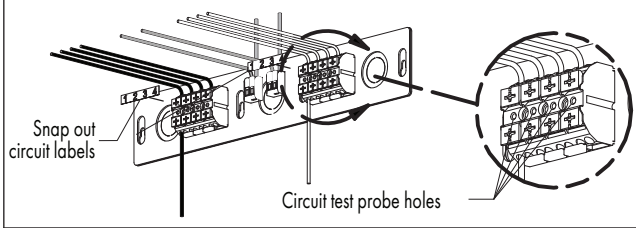


FIG 9.3 Wiring Schematics



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

FIG 9.4 Accessing Circuit Probe Holes

WIRING INSTRUCTIONS (Continued)

804S Multi-Lamp Wiring - All Lamps Controlled Together or Individually

LU2 / LU4 - ECOSYSTEM CONTROL

1. Ensure jumper bars are installed in terminal blocks as shown - FIG 10.1.
2. Make wire connections noting individual lamp circuit numbers – FIG 10.2.
3. Check circuit continuity using holes in terminal blocks – FIG 10.4.
4. Push all wires completely inside wiring compartment – FIG 5.1 (page 5).
5. Replace & secure box cover plate using screws provided – FIG 5.1 (page 5).

2 Lamp Model	3 Lamp Model	4 Lamp Model

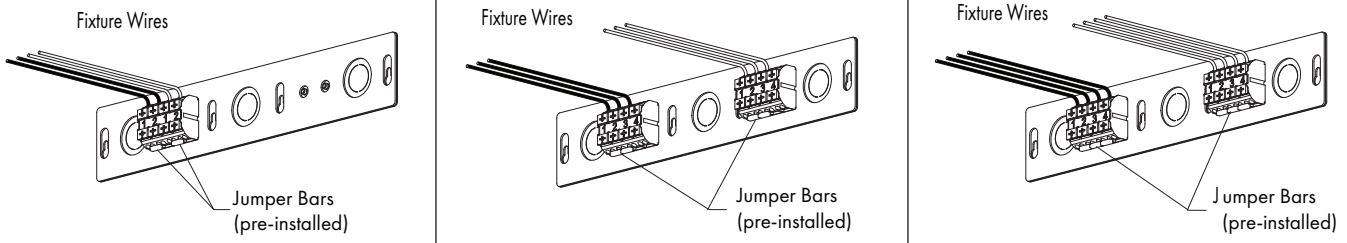


FIG 10.1 Jumper Bars

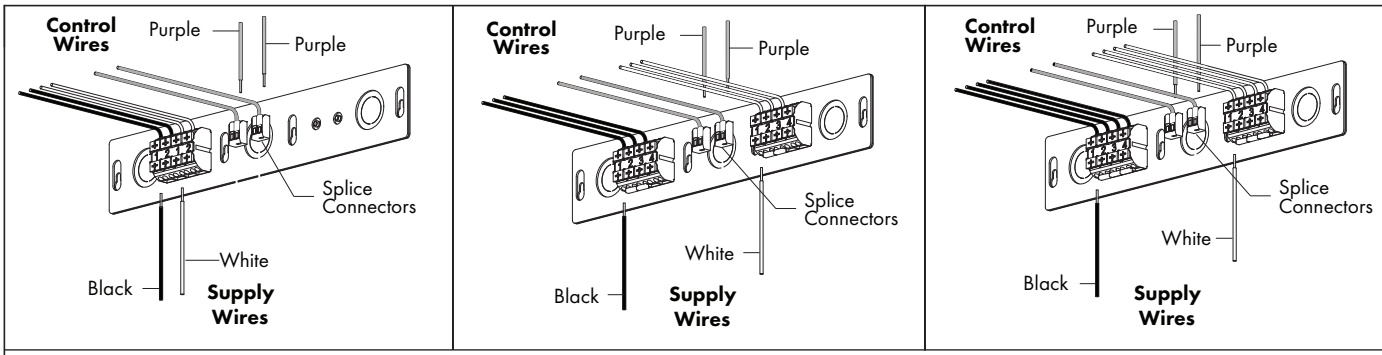


FIG 10.2 Attach Supply & Control Wires

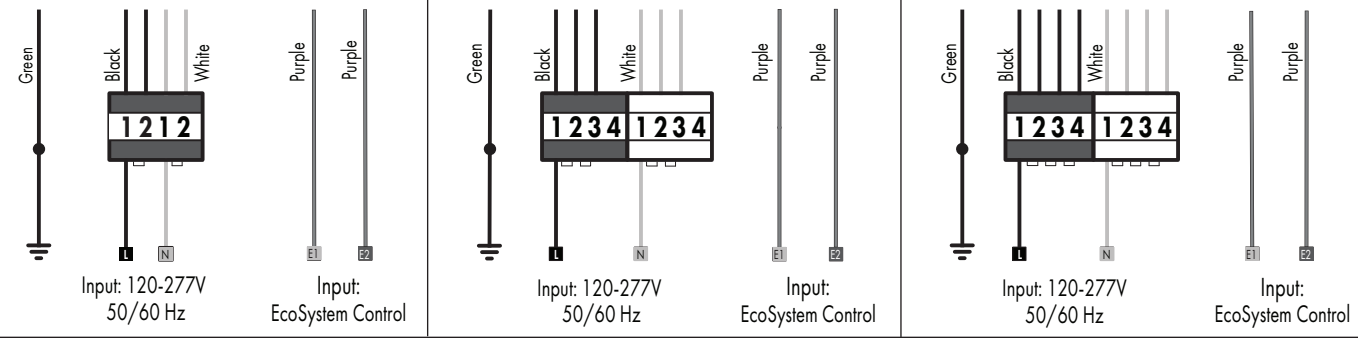
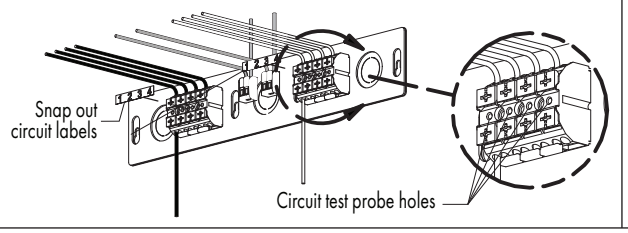


FIG 10.3 Wiring Schematics



Lutron EcoSystem Control Notes:
Up to 64 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.

FIG 10.4 Accessing Circuit Probe Holes

WIRING INSTRUCTIONS - 804S Single Lamp Tunable White

For **EL3 / EL4 / EL5** 2-Channel Dimming Options

CAUTION: TO AVOID RISK OF FIRE OR ELECTRIC SHOCK

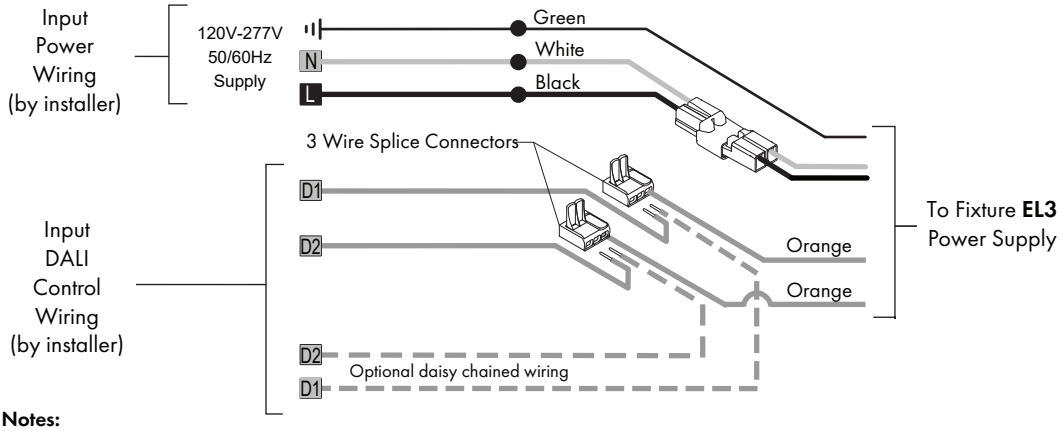
Turn off power at circuit breaker or fuse panel & read instructions completely before proceeding.
Failure to follow instructions may void warranty. Save these instructions.

- Installation must be by a qualified electrician only and must conform to National Electric code and local regulations.
- Verify correct dimming system, lamp module, power supply type, and input supply requirements.
- Always allow LED assembly to cool before servicing.
- Do not install where insulation or ambient temperatures will exceed maximum values noted in product specifications. See www.8lighting.com for current product specifications.

804S Single Lamp Tunable White Wiring

EL3 2-Channel DALI CONTROL

1. Loosen screws slightly & slide off Cover Plate. Verify correct dimming system, power supply type and input supply requirements-Fig 1.1.
2. Connect input power & control wires as shown-FIG 1.1 & 1.2.
3. Push all wires & connections completely inside wiring enclosure-FIG 1.2.
4. Re-install Cover Plate using Screws provided-FIG 1.2.



DALI Control Notes:
DALI control wiring is not polarity sensitive and can be run as Class 1 or 2. Each **EL3** driver will be discovered with two incremented short addresses: one for CCT and one for INTENSITY.
Up to 32 **EL3** drivers can be daisy-chained per DALI control loop. Maximum control wiring run length is 1000'.
For compatible dimmers for use with **EL3** drivers see: www.8lighting.com/resources-downloads.

FIG 1.1 Wiring Diagram

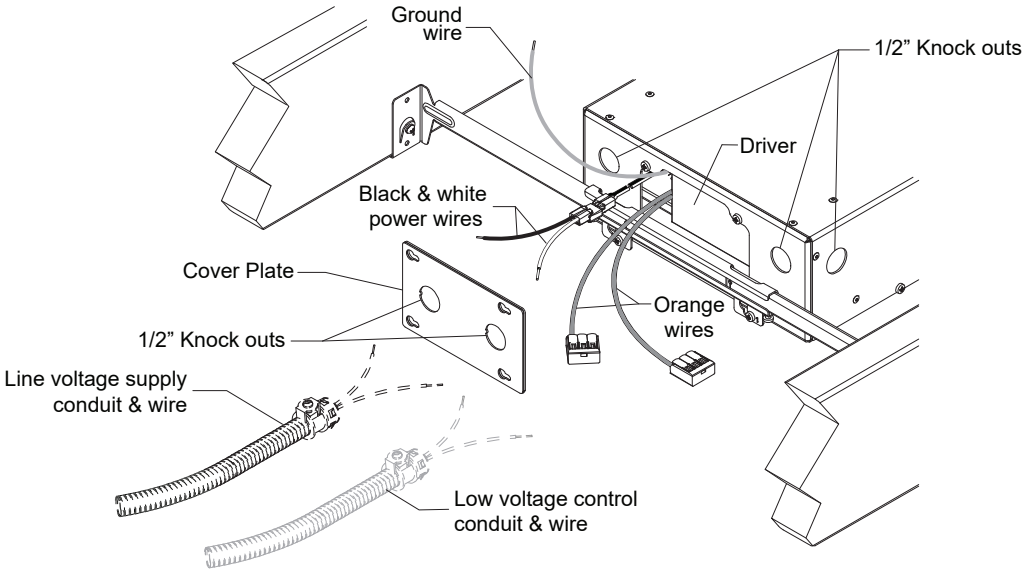


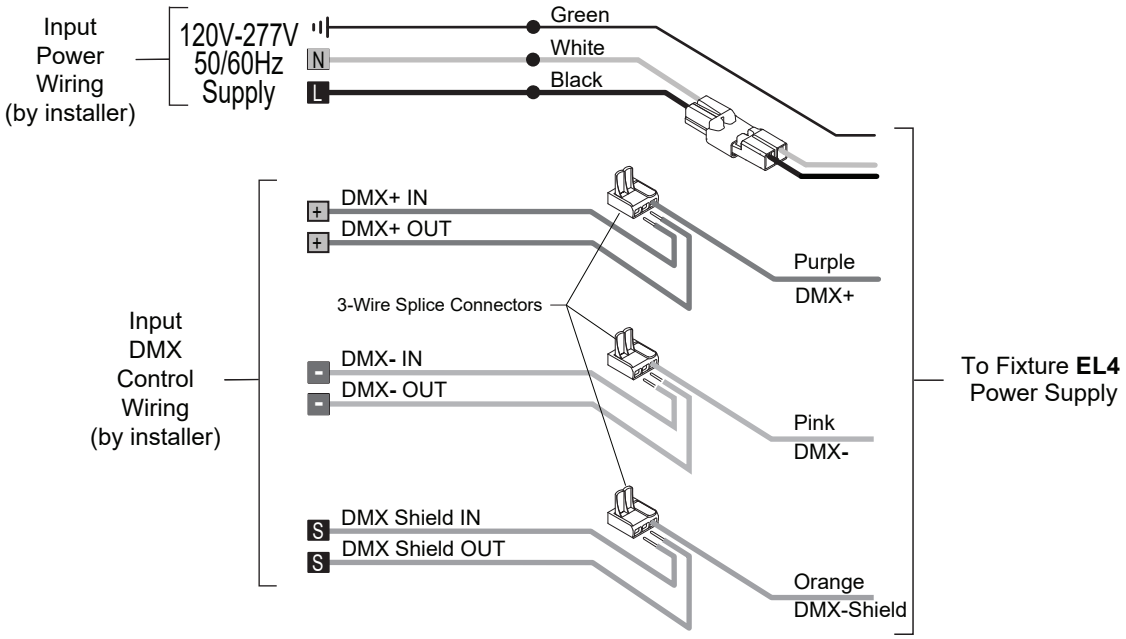
FIG 1.2 Wire Connections

WIRING INSTRUCTIONS (Continued)

804S Single Lamp Tunable White Wiring

EL4 - 2 CHANNEL DMX CONTROL

1. Loosen screws slightly & slide off Cover Plate. Verify correct dimming system, power supply type and input supply requirements-Fig 2.1.
2. Connect input power & control wires as shown-FIG 2.1 & 2.2.
3. Push all wires & connections completely inside wiring enclosure-FIG 2.2.
4. Re-install Cover Plate using Screws provided-FIG 2.2.



DMX Notes:

DMX control wiring is polarity sensitive and should be run as Class 2. Each **EL4** driver is one "unit load". DMX runs without a repeater/signal booster should be limited to no more than 32 fixtures including controller depending on the site conditions. **EL4** drivers are RDM compatible and addressable by others in the field. Termination of the DMX runs is to be done by others per DMX512A specification. Maximum control wiring run length is 1000'

For compatible dimmers for use with **EL4** drivers see: www.8lighting.com/resources-downloads.

FIG 2.1 Wiring Diagram

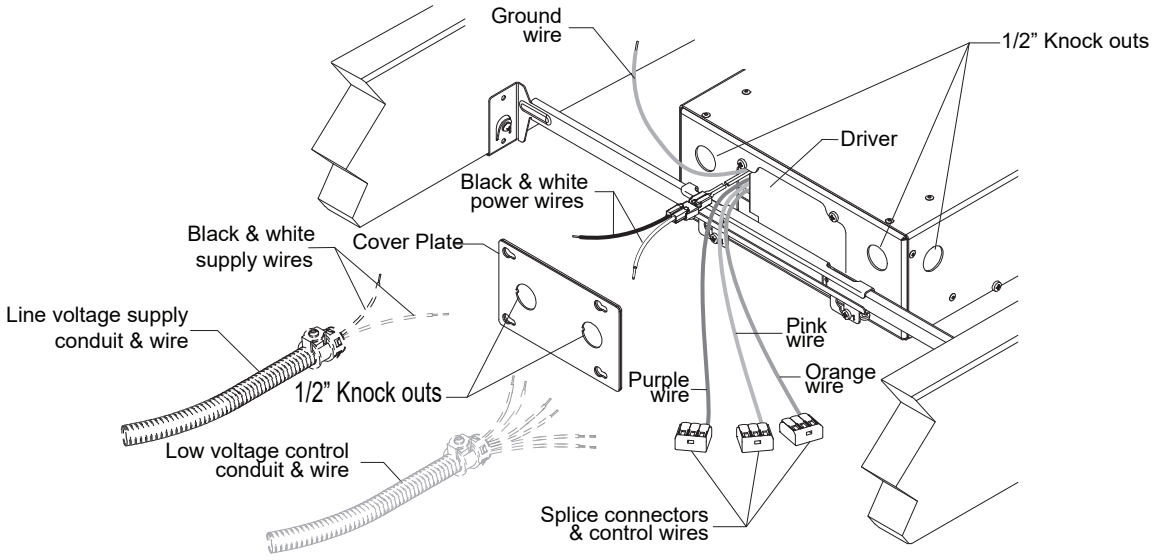


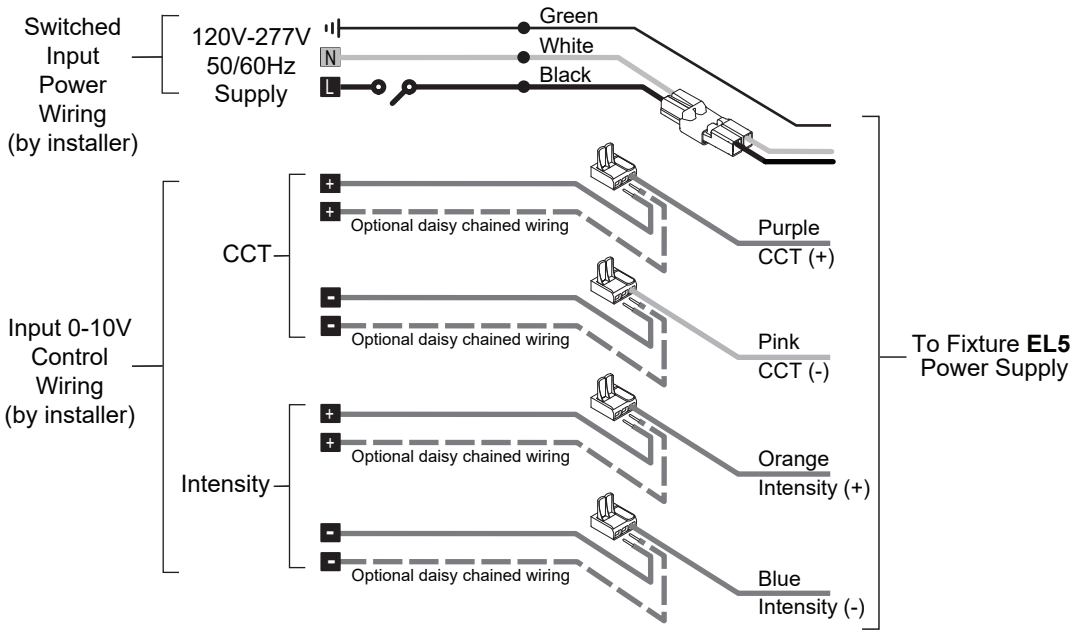
FIG 2.2 Wire Connections

WIRING INSTRUCTIONS (Continued)

804S Single Lamp Tunable White Wiring

EL5 2-CHANNEL 0-10V CONTROL

1. Loosen screws slightly & slide off Cover Plate. Verify correct dimming system, power supply type and input supply requirements-Fig 3.1.
2. Connect input power & control wires as shown-FIG 3.1 & 3.2.
3. Push all wires & connections completely inside wiring enclosure-FIG 3.2.
4. Re-install Cover Plate using Screws provided-FIG 3.2.



0-10V Control Notes:

0-10V control wiring is polarity sensitive and should be run as Class 2. Each **EL5** driver requires two pairs of Class 2 control wires: one pair for CCT and one pair for INTENSITY. 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 **EL5** drivers see: www.8lighting.com/resources-downloads.

FIG 3.1 Wiring Diagram

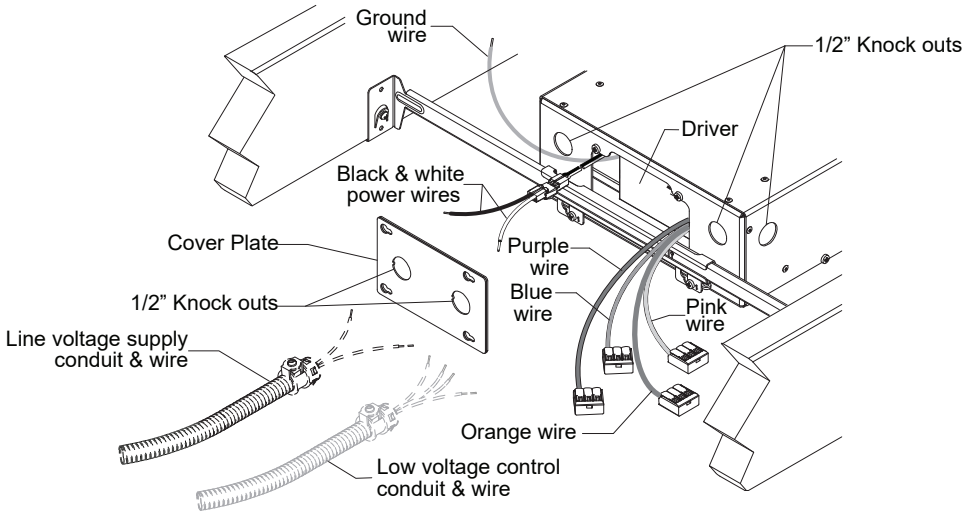


FIG 3.2 Wire Connections