

INSTALLATION INSTRUCTIONS RECESSED MODEL SERIES 804D

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 MODEL SERIES 804D

Mounting Hanger Bars



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.





HOUSING INSTALLATION INSTRUCTIONS RECESSED MODEL SERIES 804D

Mounting Housing To Joists

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.



INSTALLATION INSTRUCTIONS Model Series 804D

INSTALLING PANEL MOUNTING KIT

CAUTION: Read all instructions completely before proceeding.

N°

<u>eight</u>

LIGHTING

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 Panel Mounting Bracket Positioning Chart

| | | - |
|-------------|--------------------------------|--------------------|
| Trim Models | For Ceiling Thickness Range | Hole Position # |
| FS-P, FR-P | 1-1/8″ to 1-1/2″ | Lower #1 |
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INSTALLATION INSTRUCTIONS Model Series 804 / 804S / 804D 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.



INSTALLATION INSTRUCTIONS



Model Series 804 / 804S / 804D

Butterfly Bracket for Commercial C-channel or Bar Mounting





LED Lamp Module Instructions MODEL SERIES 804 / 804S / 804D

Lamp Module J2 & J2S Installation / Adjustment / Removal

Removal this page before proceeding.

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.





Lamp Module J2S-TW Installation/Adjustment/Removal Instructions MODEL SERIES 804D

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 1
 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.





Lamp Module K2 & K2S -Installation/Removal MODEL SERIES 804 / 804S / 804D



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.







LED Power Supply Module Removal / Replacement MODEL SERIES 804 / 804S / 804D 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.



WIRING INSTRUCTIONS - 804D



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

<u>CAUTION: TO AVOID RISK OF FIRE OR ELECTRIC SHOCK</u> Turn off power at circuit breaker or fuse panel & read instructions completely before proceeding. Failure to follow instructions may void warranty. Save these instructions.

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 Installation must be by a gualified electricity only and must conform to Mational El
- 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.

804D 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.



FIG 1.1 Wiring Diagram





804D 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.



FIG 2.1 Wiring Diagram





804D 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.



For compatible dimmers for use with EL2 drivers see: www.8lighting.com/resources-downloads.

FIG 3.1 Wiring Diagram





804D 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.



WIRING INSTRUCTIONS - 804D 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.
- ٠ 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.

804D 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 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

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

804D 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

