

# **200 SERIES**

# **REMODEL** TYPE NON-IC RATED INSTALLATION INSTRUCTIONS

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

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

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

### Save these instructions.

# TABLE OF CONTENTS

200-RM SERIES COMPONENTS	PAGE 1
REMODEL INSTALLATION - FLANGED TRIMS	2-3
REMODEL INSTALLATION - FLANGELESS TRIMS	4-7
AIMING AND ADJUSTMENT and TRIM PLATE FINISHING and INSTALLATION	8
WIRING DIAGRAMS	9-10

# 200 SERIES REMODEL COMPONENTS



203-RM WALL WASH LIGHT ENGINE		WALL WASH TRIM PLATES (for 203-R/S-RM Light Engines)	
203-R-RM	203-S-RM	FLR-2-WW	FLS-2-WW

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



# REMODEL INSTALLATION - FLANGED TRIMS 201/202/203-S-RM and 201/202/203-S-BV-RM SQUARE LIGHT ENGINES



201/202/203-R-RM and 201/202/203-R-BV-RM ROUND LIGHT ENGINES



**Caution:** Cut-out must be within  $\pm \frac{1}{32}$ " Ceiling material must be rigid and able to support weight of fixture (approximately 5lbs.). Not for use with Acoustic tile or non-rigid ceiling materials. Minimum of  $5-\frac{1}{2}$ " rough ceiling space required for power supply installation.

# **REMODEL INSTALLATION - FLANGED TRIMS**

#### STEP 2 - ROUGH WIRING

**1a.** Disconnect power at circuit breaker.

**1b.** Review wiring diagrams on page 9 & 10, wire accordingly.

1c. Install wiring to fixture location leaving a 12" to 18" flexible whip to facilitate installation/servicing.

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

#### **STEP 2** – CEILING CUT-OUT AND INSTALLATION

- 2a. Ensure center of cut-out will be a minimum of 2-14" from nearest framing member and there is a minimum of 5-1/2" of rough ceiling space above for installation of power supply.
- **2b.** (Skip this step if installing into existing ceiling). Install ceiling material over rough wiring. **Note:** Rough wiring will be accessible after making ceiling cutout. Certain local electrical codes may require rough wiring to be installed in temporary junction box (not supplied) prior to installing ceiling.
- 2c. For sheetrock ceilings apply all coats of primer & finish paint before making ceiling cut-out.
- **2d.** Make cut-outs as shown.



#### **STEP 3** – FIXTURE WIRING



3c. Review wiring instructions on page 9 & 10, wire fixture accordingly. Place all wiring connectors back in power supply box and replace cover.

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



4d. Install trim plate (see page 8).

# 201/202/203-S-RM AND 201/202/203-S-BV-RM SQUARE LIGHT ENGINES



201/202/203-R-RM AND 201/202/203-R-BV-RM ROUND LIGHT ENGINES



CAUTION: For use wth sheet rock material only. Cut-out must be within ± 1/16". Minimum of 5-1/2" rough ceiling space required for power supply module installation.

# **REMODEL INSTALLATION - FLANGELESS TRIMS**

#### STEP 1 - ROUGH WIRING

**1 a.** Disconnect power at circuit breaker.

**1b.** Review wiring diagrams on page 9 & 10, wire accordingly.

1c. Install supply wiring to fixture location leaving a 12-18" flexible whip to facilitate installation/servicing.

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

#### STEP 2 - CEILING CUT-OUT AND INSTALLATION

2a. Ensure center of cut-out will be a minimum of 3-1/4" from nearest framing member and there is a minimum of 5-1/2" of rough ceiling space above for installation of power supply.

2b. (Skip this step if installing into existing ceiling) Install ceiling material over rough wiring.

Note: Rough wiring will be accessible after making ceilng cut-out. Certain local electrical codes may require rough wiring to be installed in temporary junction box (not supplied) prior to installing ceiling.

2c. Make cut-outs as shown below.



#### **STEP 3**- FLANGELESS TRIM INSTALLATION

3a. Install ceiling brackets through cut-out. Remove mud shield and save. Install trim using four screws. Note: do not tighten screws until step 3b.



3b. Rotate trim to be aligned with adjacent walls or fixtures as shown below. Note: hand tighten trim screws. A power driver is not recommended.



#### STEP 3 - FLANGELESS TRIM INSTALLATION (CONTINUED)

3c. Reinstall mud shield.

**3d.** 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.



3e. Apply ceiling finish around FR-2-RM or FS-2-RM flangeless trim. NOTE: Minimum Level 4 or 5 finish is recommended.



**3f.** 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 trimedge. Allow first coat to dry completely and remove any high spots by lightly sanding before applying the second coat.

**3g.** 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 lightly sanding before applying the third coat.

**3h.** 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.

**3i.** Sand third coat with fine grit sandpaper until mud shield and finished metal edge of trim lip are barely exposed.

3j. Remove mud shield.

**3k.** Remove excess material from inside edges of trim.

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

## **REMODEL INSTALLATION - FLANGELESS TRIMS**

#### **STEP 4** – FIXTURE WIRING



4c. Review wiring diagrams on page 9 & 10, wire fixture accordingly. Place all wiring connectors back in power supply box and replace cover.

#### **STEP 5** – LIGHT ENGINE WIRING AND INSTALLATION



# AIMING & ADJUSTMENT

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

- **1b.** Adjust vertical aiming by sliding the lamp holder to desired angle (0-30°)
- **1a.** Adjust the horizontal aiming by rotating the lamp holder & housing to desired angle (0-360°)



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

- 2a. Remove the lens ring from the lamp holder by unscrewing counter-clockwise.
- 2b. Remove optic lens (and accessory lens if used) by gently pressing upward on the center while holding the lens ring.
- 2c. Install desired optic (and accesory lens if used) by aligning the optic lens in lens ring.
- 2d. Reinstall lens ring on to lamp holder by turning clockwise.



# TRIM PLATE FINISHING & INSTALLATION

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

1a. Remove the trim plate from packaging.

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

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

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

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

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

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

#### **STEP 2** – INSTALL TRIM PLATE

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

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



## WIRING DIAGRAMS



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

# WIRING DIAGRAMS





# www.8lighting.com

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