



200 SERIES
202-RM-RT/203-RM-RT REMODEL
REMOTE POWER SUPPLY
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.

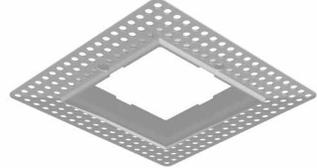
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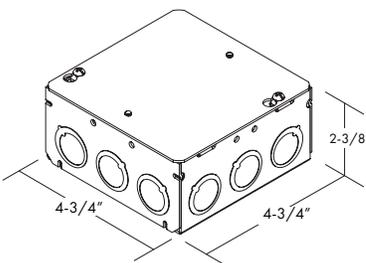
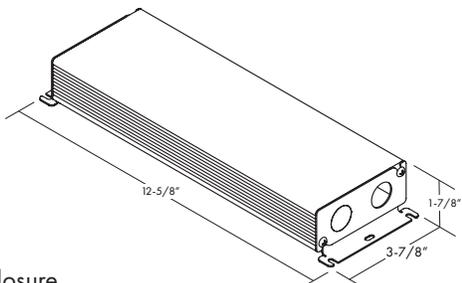
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200-RM-RT SERIES COMPONENTS

<p>202-RM-RT ADJUSTABLE LIGHT ENGINE for REMOTE POWER SUPPLY</p>	<p>203-RM-RT WALL WASH LIGHT ENGINE for REMOTE POWER SUPPLY</p>
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>202-R-RM-RT/ 202-R-BV-RM-RT</p> </div> <div style="text-align: center;">  <p>202-S-RM-RT/ 202-S-BV-RM-RT</p> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>203-R-RM-RT</p> </div> <div style="text-align: center;">  <p>203-S-RM-RT</p> </div> </div>

<p>FLAT TRIM PLATES for 202-R/S-RM-RT Light Engines</p>	<p>BEVEL TRIM PLATES For 202-R/S-BV-RM-RT Light Engines</p>	<p>WALL WASH TRIM PLATES For 203-R/S-RM-RT Light Engines</p>
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>FLR-2</p> </div> <div style="text-align: center;">  <p>FLS-2</p> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>FLR-2-BV</p> </div> <div style="text-align: center;">  <p>FLS-2-BV</p> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>FLR-2-WW</p> </div> <div style="text-align: center;">  <p>FLS-2-WW</p> </div> </div>

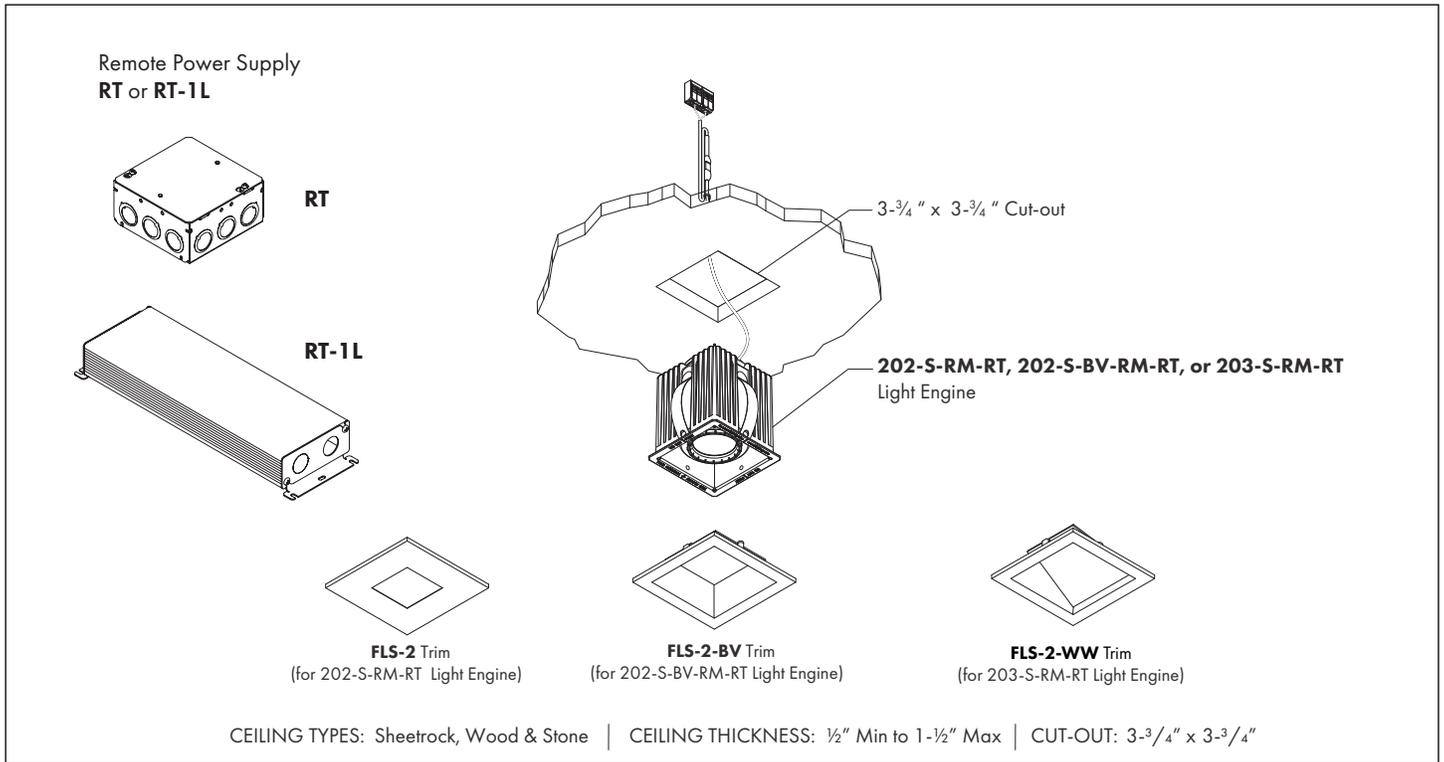
<p>FLANGELESS TRIM MOUNTING ACCESSORIES</p>	
<div style="text-align: center;">  <p>FR-2-RM FLANGELESS TRIM ACCESSORY (for flush mounting FLR-2/FLR-2-BV/FLR-2-WW trims in REMODEL applications)</p> </div>	<div style="text-align: center;">  <p>FS-2-RM FLANGELESS TRIM ACCESSORY (for flush mounting FLS-2/FLS-2-BV/FLS-2-WW trims in REMODEL applications)</p> </div>

<p>200-RM-RT SERIES REMOTE DRIVER ENCLOSURES</p>	
<div style="text-align: center;">  <p>RT Enclosure</p> </div>	<div style="text-align: center;">  <p>RT-1L Enclosure</p> </div>

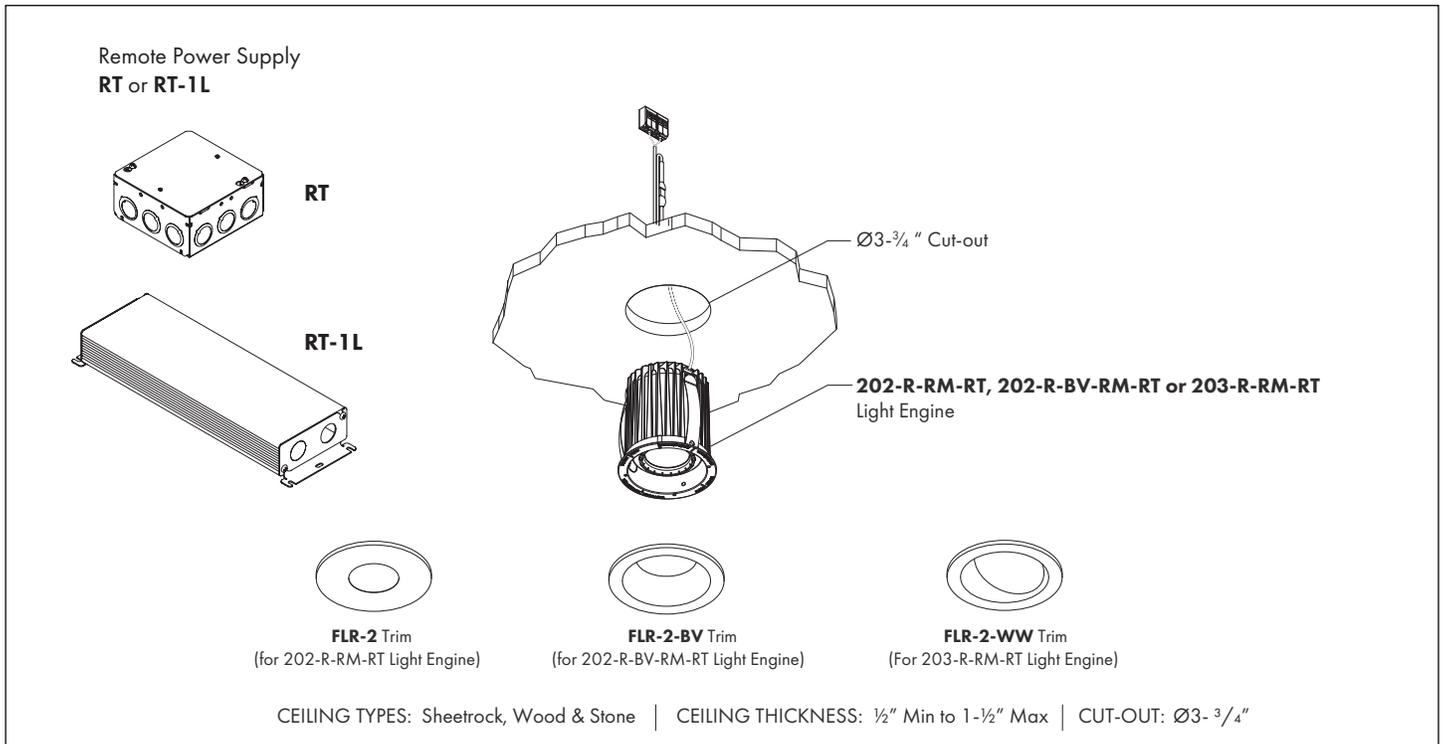
<p>OPTIC OPTIONS + ACCESSORIES</p>	
<div style="display: flex;"> <div style="flex: 1;"> <ul style="list-style-type: none"> TIR-15 15° Narrow spot TIR-25 25° Narrow flood TIR-40 40° Flood TIR-60 60° Wide flood </div> <div style="flex: 1; text-align: center;">  </div> </div>	<div style="display: flex;"> <div style="flex: 1;"> <ul style="list-style-type: none"> NSP Narrow softening lens NFL Medium softening lens FL Wide softening lens WFL Extra wide softening lens LS Linear spread Lens </div> <div style="flex: 1; text-align: center;">  </div> </div>

REMODEL - REMOTE INSTALLATION - FLANGED TRIMS

202-S/202-S-BV/203-S-RM-RT SQUARE LIGHT ENGINES for FLANGED TRIM APPLICATIONS



202-R/202-R-BV/203-R-RM-RT ROUND LIGHT ENGINES for FLANGED TRIM APPLICATIONS



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 4-¹/₂" rough ceiling space required for installation.

REMODEL - REMOTE INSTALLATION - FLANGED TRIMS

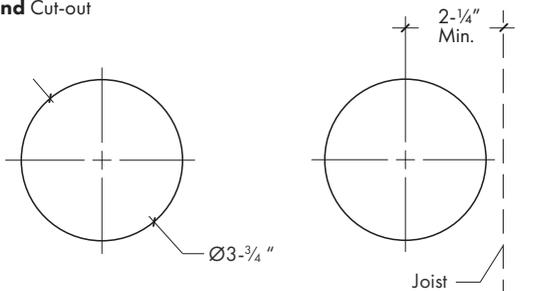
STEP 2 – ROUGH WIRING

- 1a. Disconnect power at circuit breaker.
- 1b. Review wiring instructions on **Pages 9 -11**, wire accordingly.
- 1c. Install Class 2 wiring from Remote Power Supply to fixture location leaving a 12" to 18" flexible whip to facilitate installation/servicing.
- Note:** 0-10, DALI and EcoSystem Dimming Options (if specified) require additional control wiring.

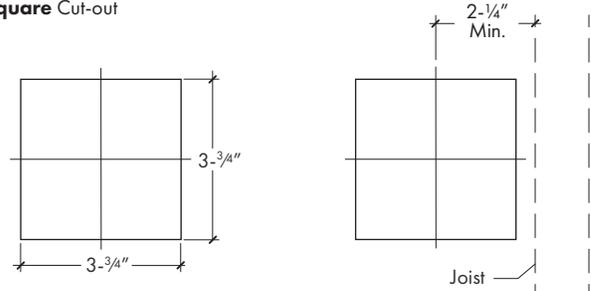
STEP 2 – CEILING CUT-OUT AND INSTALLATION

- 2a. Ensure center of cut-out will be a minimum of 2-1/4" from nearest framing member and there is a minimum of 4-1/2" of rough ceiling space above for installation.
- 2b. (Skip this step if installing into existing ceiling). Install ceiling material over rough wiring. **Note:** Rough wiring will be accessible after making ceiling cut-out. 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.

Round Cut-out

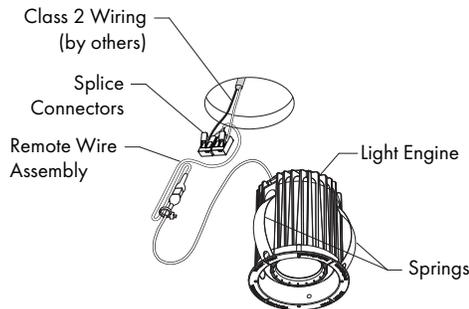


Square Cut-out

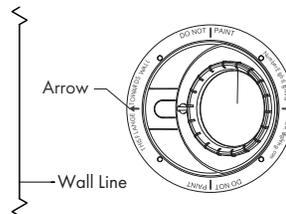


STEP 3 – LIGHT ENGINE WIRING AND INSTALLATION

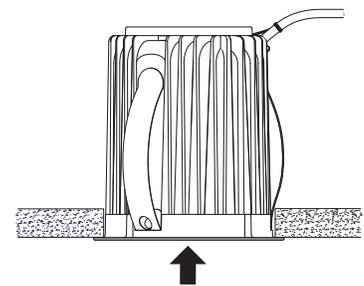
- 3a. Route class 2 wiring from remote power supply to fixture location and pull through ceiling cut-out ensuring a minimum of 6" of wire extends below the ceiling. Support Light Engine and attach remote wire assembly splice connectors to Class 2 wiring. Depress all springs inward & install light engine into ceiling.



- 3b. Align light engine so arrow shown on flange is perpendicular with adjacent wall.



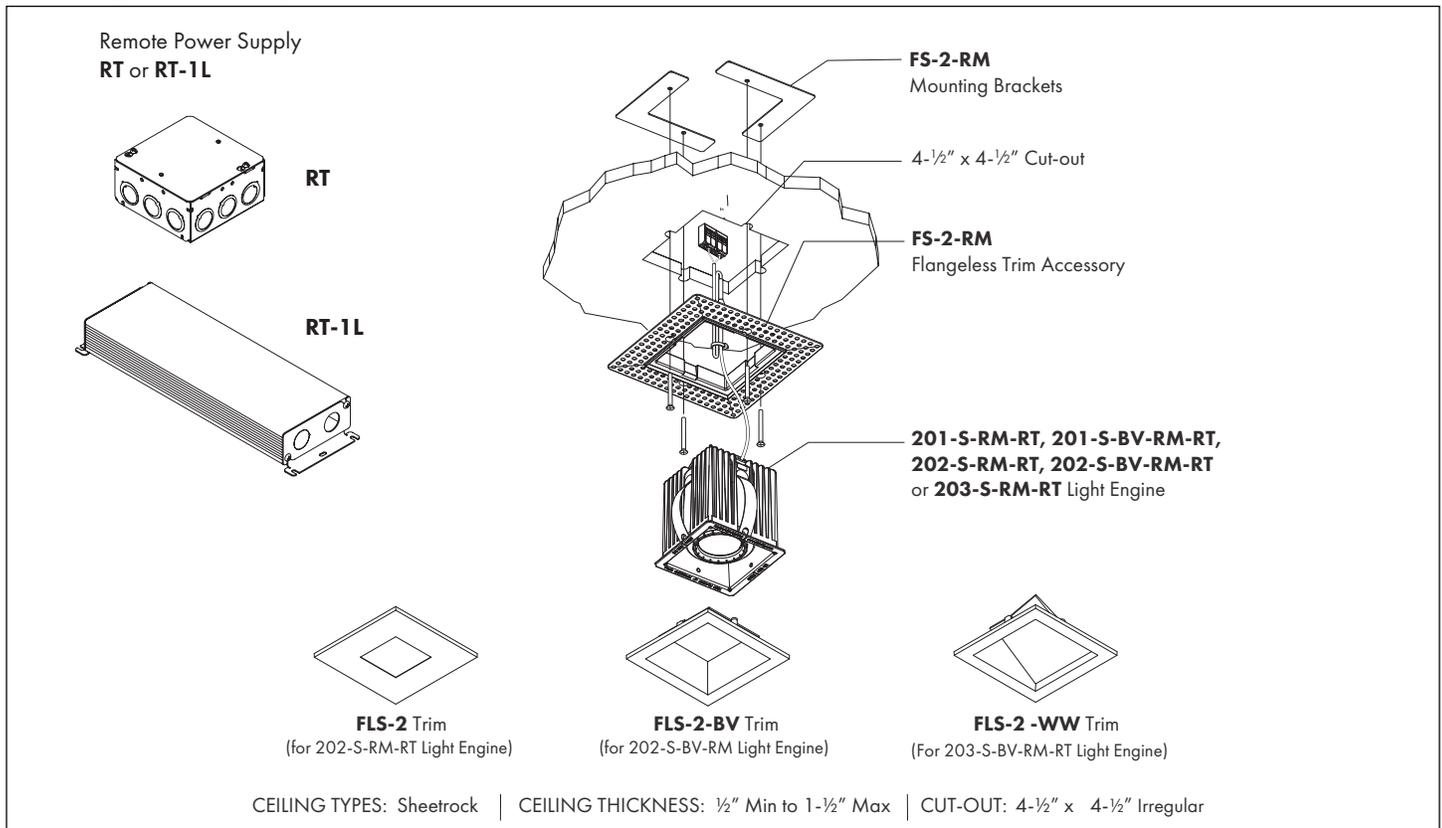
- 3c. Install light engine through cut-out.



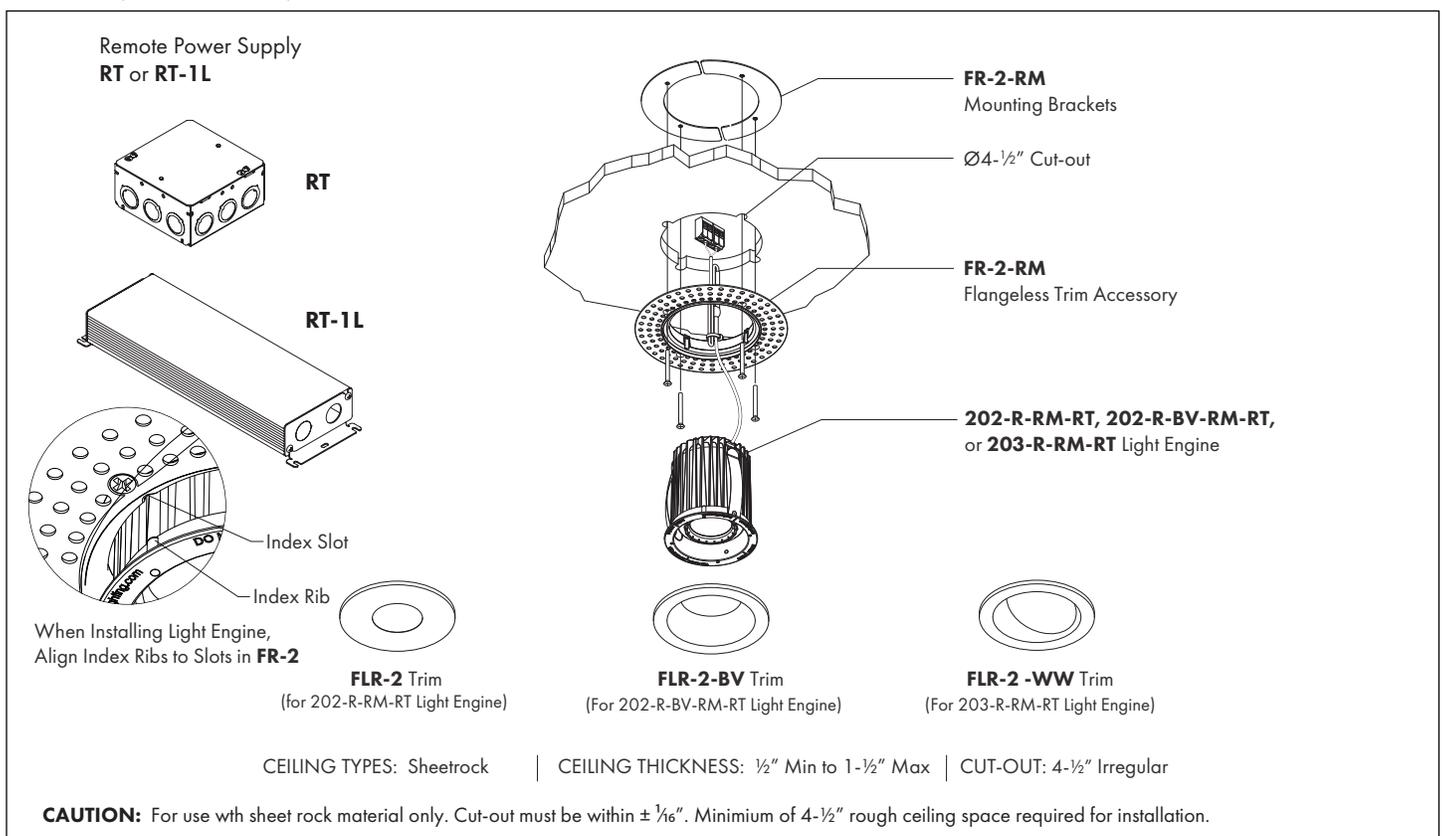
- 3d. Install trim plate (see page 8).

REMODEL - REMOTE INSTALLATION - FLANGELESS TRIMS

202-S/202-S-BV/ 203-S-RM-RT SQUARE LIGHT ENGINES for FLANGELESS TRIM APPLICATIONS



202-R/202-R-BV/203-R-RM-RT ROUND LIGHT ENGINES for FLANGELESS TRIM APPLICATIONS



REMODEL - REMOTE INSTALLATION - FLANGELESS TRIMS

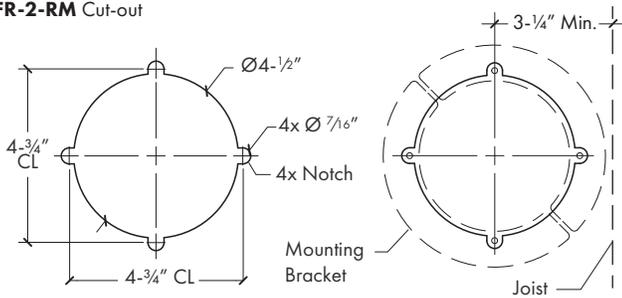
STEP 1 - ROUGH WIRING

- 1a. Disconnect power at circuit breaker.
 - 1b. Review wiring diagrams on **Pages 9-11**, wire accordingly.
 - 1c. Install Class 2 wiring from Remote Power Supply to fixture location leaving a 12" to 18" flexible whip to facilitate installation/servicing.
- Note:** 0-10, DALI and EcoSystem Dimming Options (if specified) require additional control wiring.

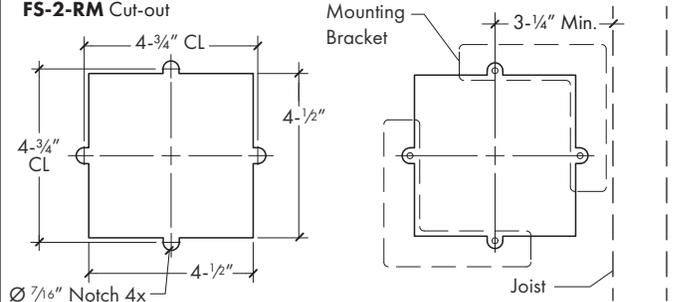
STEP 2 - CEILING CUT-OUT AND INSTALLATION

- 2a. Ensure center of cut-out will be a minimum of 3-1/4" from nearest framing member and there is a minimum of 4-1/2" of rough ceiling space above for installation.
- 2b. (Skip this step if installing into existing ceiling)
Install ceiling material over rough wiring.
Note: Rough wiring will be accessible after making ceiling 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.

FR-2-RM Cut-out

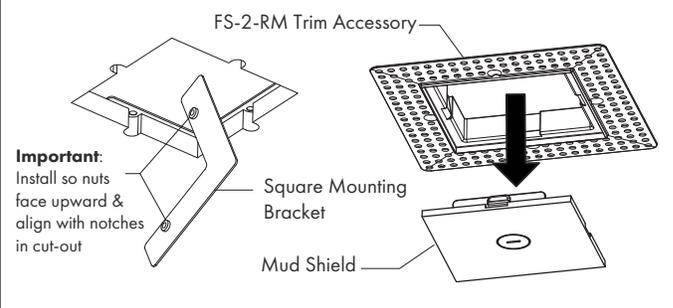
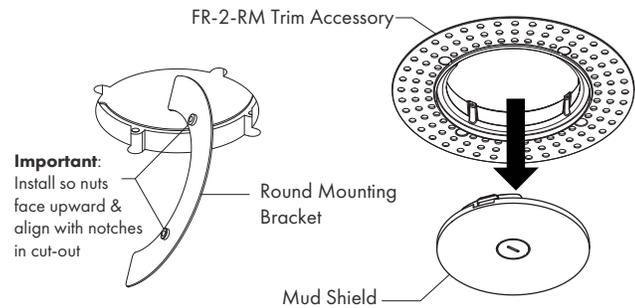


FS-2-RM Cut-out



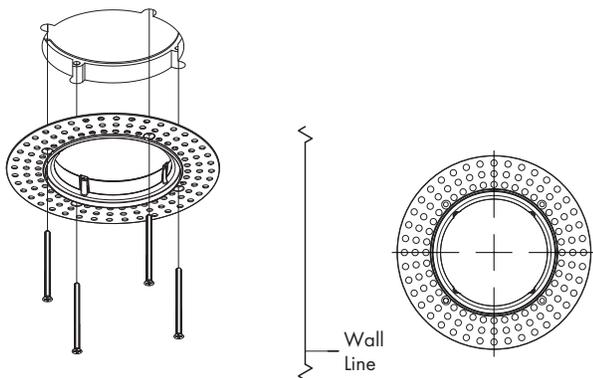
STEP 3 - FLANGELESS TRIM INSTALLATION

- 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.

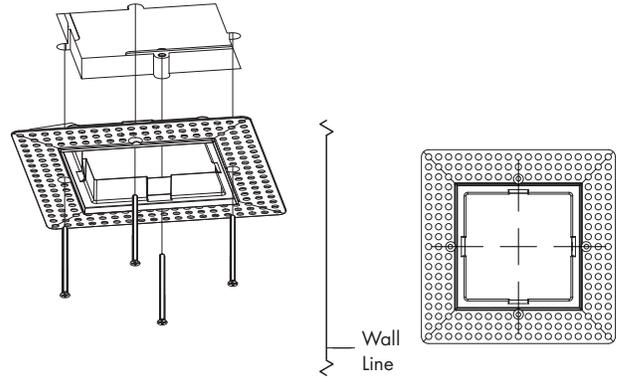


- 3b. Rotate trim to be aligned with adjacent walls or fixtures as shown below. **Note:** hand tighten trim screws. A power driver is not recommended.

FR-2-RM FLANGELESS TRIM



FS-2-RM FLANGELESS TRIM

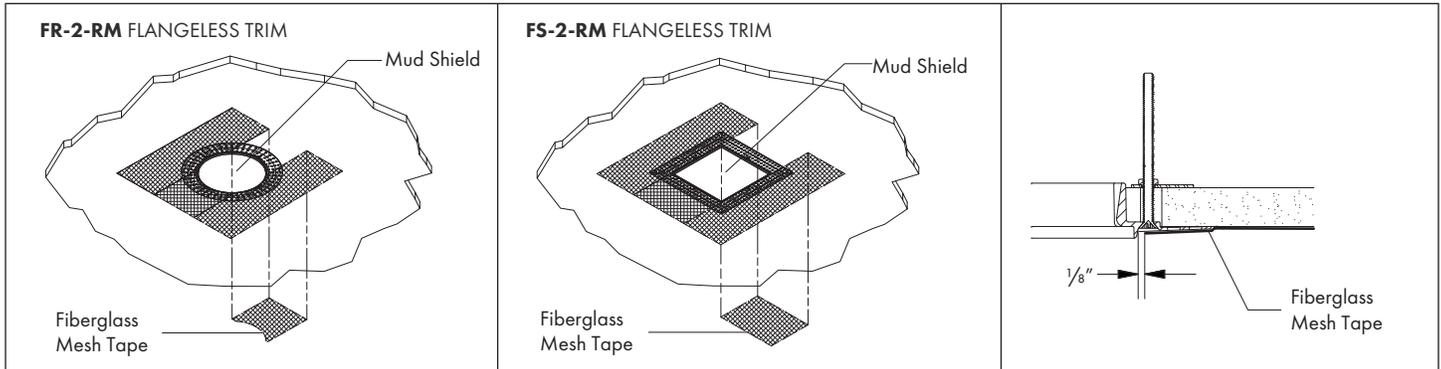


REMODEL - REMOTE INSTALLATION - FLANGELESS TRIMS

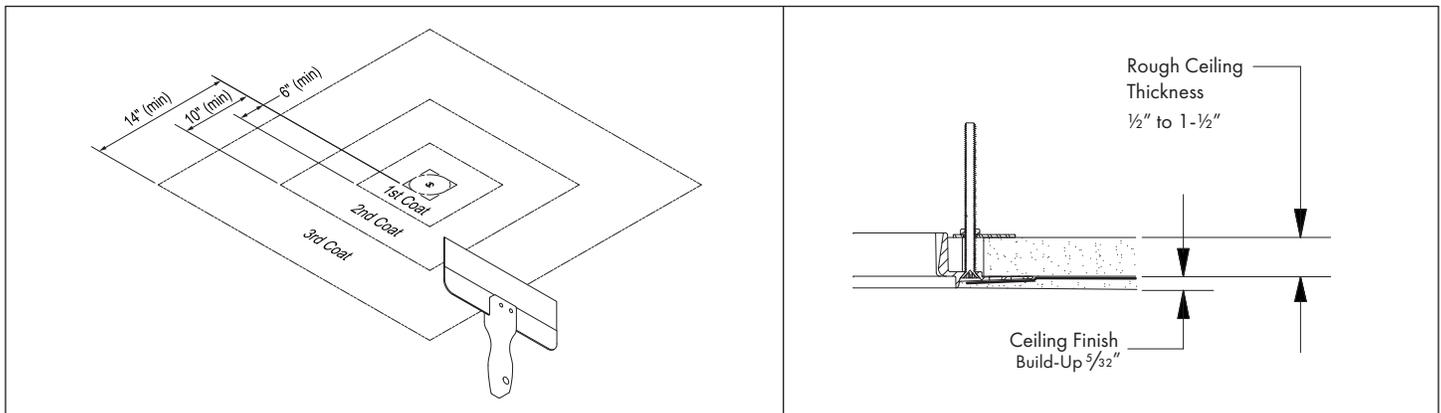
STEP 3 – FLANGELESS TRIM INSTALLATION (CONTINUED)

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 trim edge. 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.

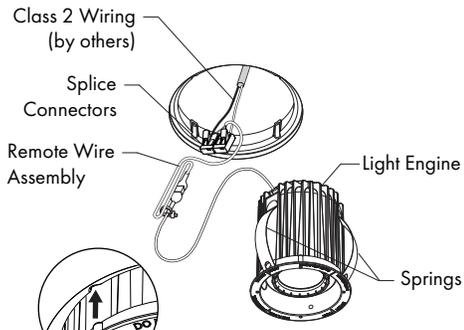
3k. Remove excess material from inside edges of trim.

3l. Apply primer (USG Sheetrock or equivalent) and paint following the paint manufacturer's instructions and warnings.

REMODEL - REMOTE INSTALLATION - FLANGELESS TRIMS

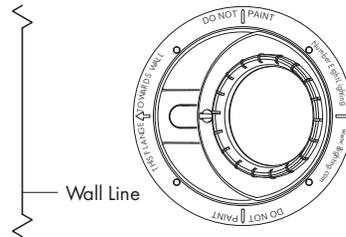
STEP 4 – LIGHT ENGINE WIRING AND INSTALLATION

4a. Route class 2 wiring from remote power supply to fixture location and pull through ceiling cut-out ensuring a minimum of 6" of wire extends below the ceiling. Support Light Engine and attach remote wire assembly splice connectors to Class 2 wiring. Depress all springs inward & install light engine into ceiling.

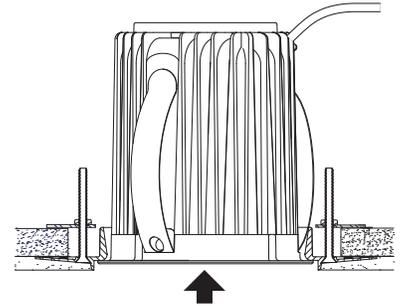


Align Index Ribs & Slots when installing Light Engine.

4b. Rotate light engine so the arrow aligns with adjacent walls.



4c. Install light engine into flangeless trim.

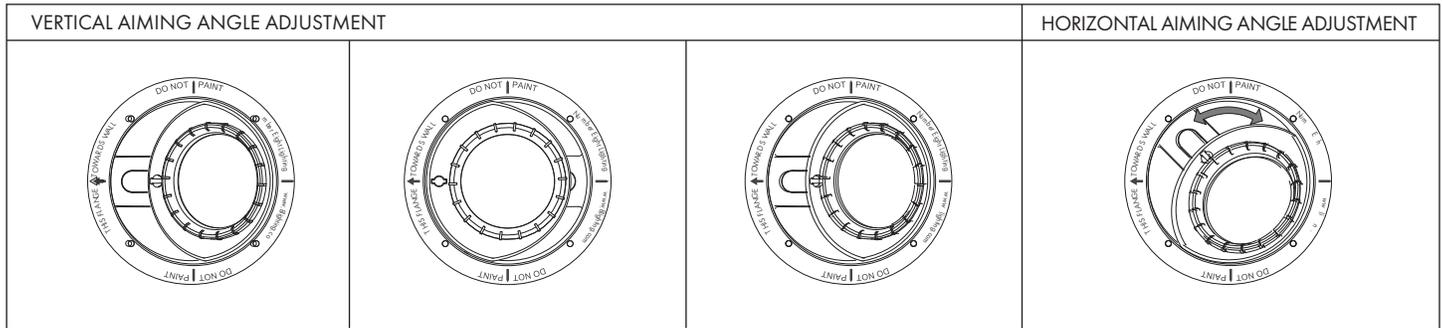


4d. Install trim plate (see page 8).

AIMING & ADJUSTMENT

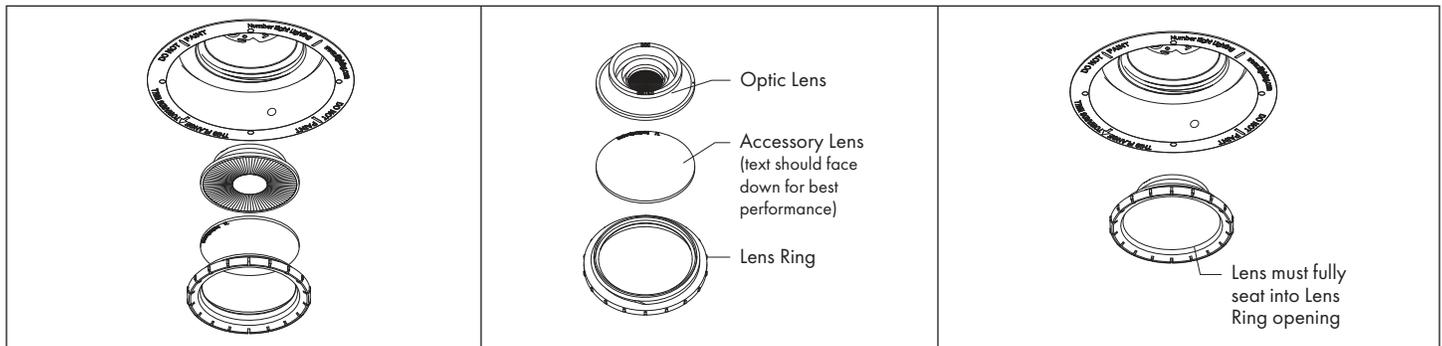
STEP 1

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



STEP 2 – LENS AND ACCESSORY REMOVAL AND REPLACEMENT

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



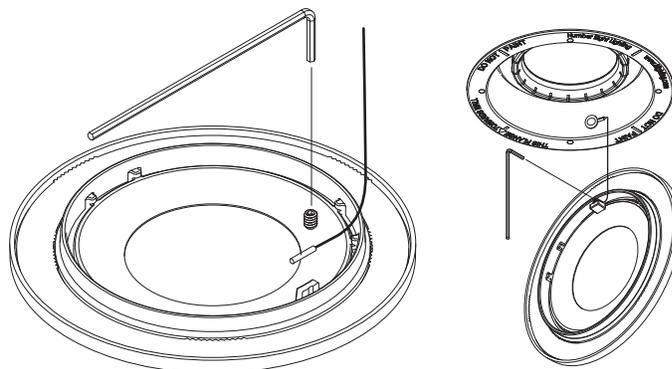
TRIM PLATE FINISHING & INSTALLATION

STEP 1 (OPTIONAL) - PAINT TRIM PLATE

- 1a. Remove the trim plate from packaging.
- 1b. Clean and prepare exposed surfaces for painting following the paint manufacturers instructions and warnings.
- 1c. Paint as desired using a "dry roller" or light spray application.
- Note:** If applying paint by spray method, mask trim plate lens (if installed).
- Caution:** Paint must be rated for minimum 90 C (150 F). Do not paint trim plate while installed in fixture. Do not paint backside of trim plate or safety cable. Do not paint edges of trim plate if using with FR-2 or FS-2 flangeless trim.
- 1d. Allow trim plate to dry completely before installing.

STEP 2 – INSTALL TRIM PLATE

- 2a. Loosen set screw in trim plate to accept safety cable.
- 2b. Extend trim safety cable out of housing and insert ferrule at end of the cable under set screw from side and secure with hex key.



WIRING INSTRUCTION S

For PR1-2-R-RT and EL1/EL1-01/EL2/EL2-01/LU4-2-R-RT-1L Remote Power Supply Options

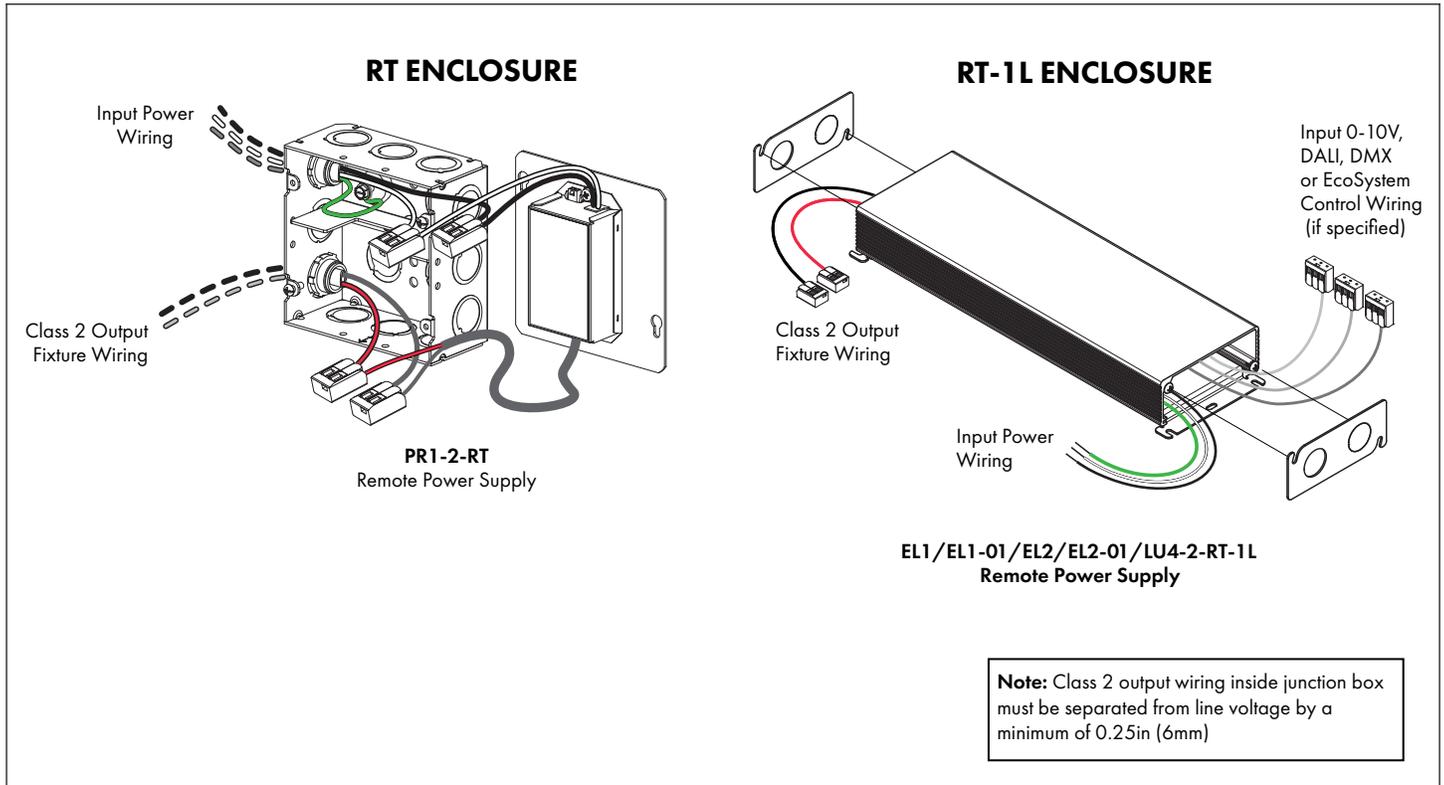
STEP 1 Verify correct power supply model (see label on cover plate), LED type (see label on fixture), wire length and gauge (see chart FIG 9.2 below) and input requirements (see label on driver) - **FIG 9.1**.

Note: For compatible dimmers see: www.8lighting.com/resources-downloads.

STEP 2 Install & wire remote power supply - **FIG 9.1**. See Wiring Diagrams on **Pages 10-11** .

STEP 3 Connect fixture supply wires to Class 2 wiring - **FIG 9.1**.

STEP 4 Push fixture supply connections completely behind Cover or End Caps - **FIG 9.1**.



Note: Class 2 output wiring inside junction box must be separated from line voltage by a minimum of 0.25in (6mm)

FIG 9.1 Wire & Install Remote Power Supply

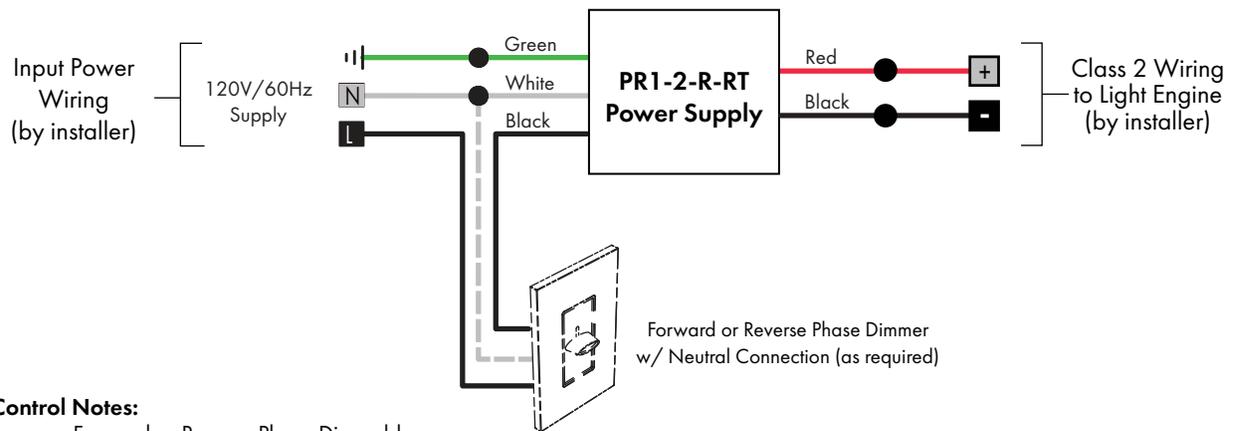
Maximum REMOTE Driver-to-LED Light Engine Wire Length		
Driver Model		Wire Gauge
PR1-2-R-RT	EL1/EL1-01/EL2/EL2-01/LU4-2-R-RT-1L	
	8 ft (2.5 m)	24 AWG (0.2 mm ²)
	13 ft (4 m)	22 AWG (0.34 mm ²)
	20 ft (6 m)	20 AWG (0.5 mm ²)
	30 ft (9 m)	18 AWG (.75 mm ²)
	35 ft (10.5 m)	16 AWG (1.5 mm ²)
	50 ft (15 m)	14 AWG (2.5 mm ²)
	100 ft (30 m)	12 AWG (4.0 mm ²)
Wire Type: Stranded Class 2 wire (supplied by others)		

FIG 9.2 Remote Power Supply Class 2 Wire Length

WIRING DIAGRAMS

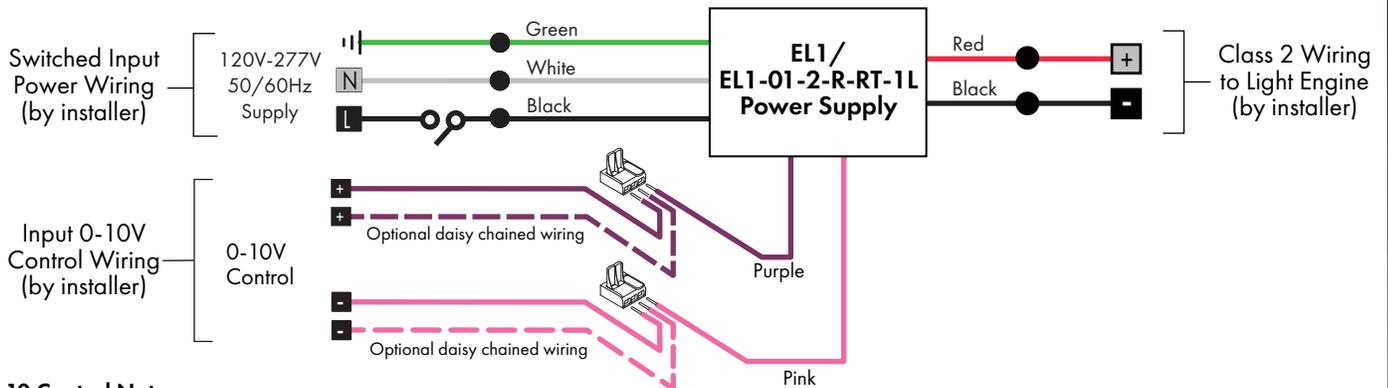
For PR1-2-R-RT and EL1/EL1-01/EL2/EL2-01-2-R-RT-1L Remote Power Supply Options

PR1-2-R-RT - REMOTE PHASE CONTROL



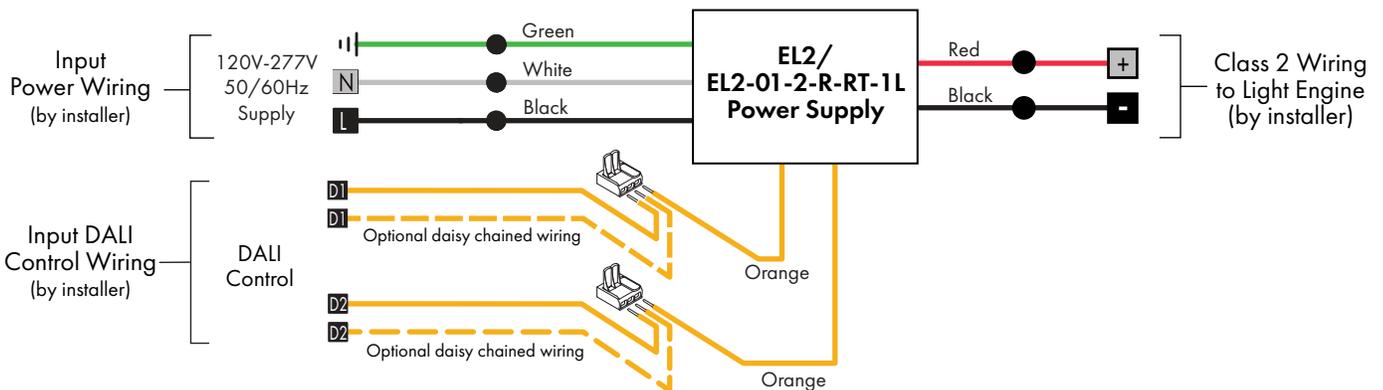
Phase Control Notes:
PR1 drivers are Forward or Reverse Phase Dimmable

EL1/EL1-01-2-R-RT - REMOTE 0-10V CONTROL



0-10 Control Notes:
0-10 control wiring is polarity sensitive and can 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.

EL2/EL2-01-2-R-RT - REMOTE DALI CONTROL

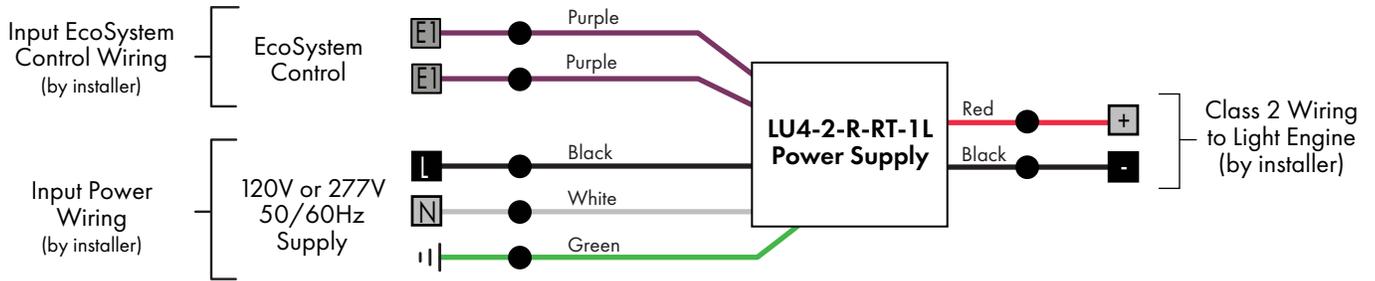


DALI Control Notes:
DALI control wiring is NOT polarity sensitive and can be run as Class 1 or 2.
Up to 64 **EL2** power supplies can be daisy chained per DALI control loop. Maximum control wiring run length is 1000'.

WIRING INSTRUCTIONS

For LU4-2-R-RT Remote Dimming Options

LU4-2-R-RT - REMOTE ECOSYSTEM CONTROL



Lutron EcoSystem Control Notes:

Up to 64 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 Excellence at 1.877.346.5338 or LEDs@lutron.com.



www.8lighting.com

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