



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.

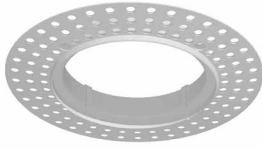
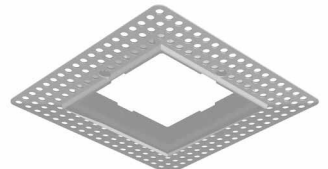
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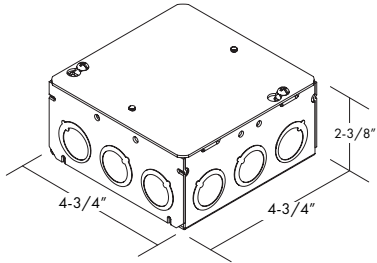
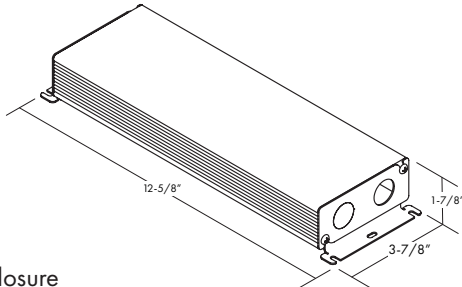
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200-RM-RT SERIES COMPONENTS

202-RM-RT ADJUSTABLE LIGHT ENGINE for REMOTE POWER SUPPLY	203-RM-RT WALL WASH LIGHT ENGINE for REMOTE POWER SUPPLY
 202-R-RM-RT / 202-R-BV-RM-RT	 203-R-RM-RT
 202-S-RM-RT / 202-S-BV-RM-RT	 203-S-RM-RT

FLAT TRIM PLATES for 202-R/S-RM-RT Light Engines	BEVEL TRIM PLATES For 202-R/S-BV-RM-RT Light Engines	WALL WASH TRIM PLATES For 203-R/S-RM-RT Light Engines
 FLR-2	 FLS-2	 FLR-2-BV
	 FLS-2-BV	 FLR-2-WW
		 FLS-2-WW

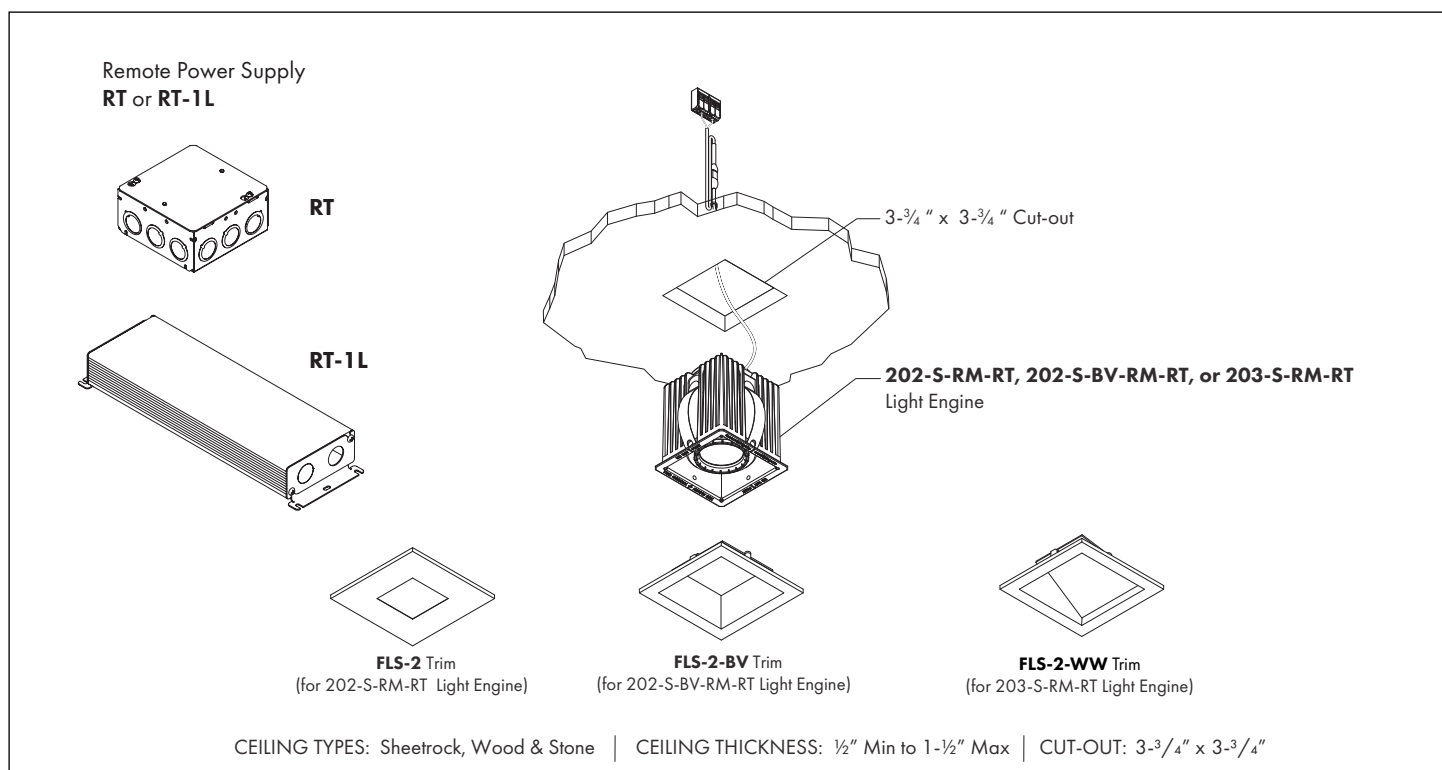
FLANGELESS TRIM MOUNTING ACCESSORIES	
 FR-2-RM FLANGELESS TRIM ACCESSORY (for flush mounting FLR-2/FLR-2-BV/FLR-2-WW trims in REMODEL applications)	 FS-2-RM FLANGELESS TRIM ACCESSORY (for flush mounting FLS-2/FLS-2-BV/FLS-2-WW trims in REMODEL applications)

200-RM-RT SERIES REMOTE DRIVER ENCLOSURES	
 RT Enclosure	 RT-1L Enclosure

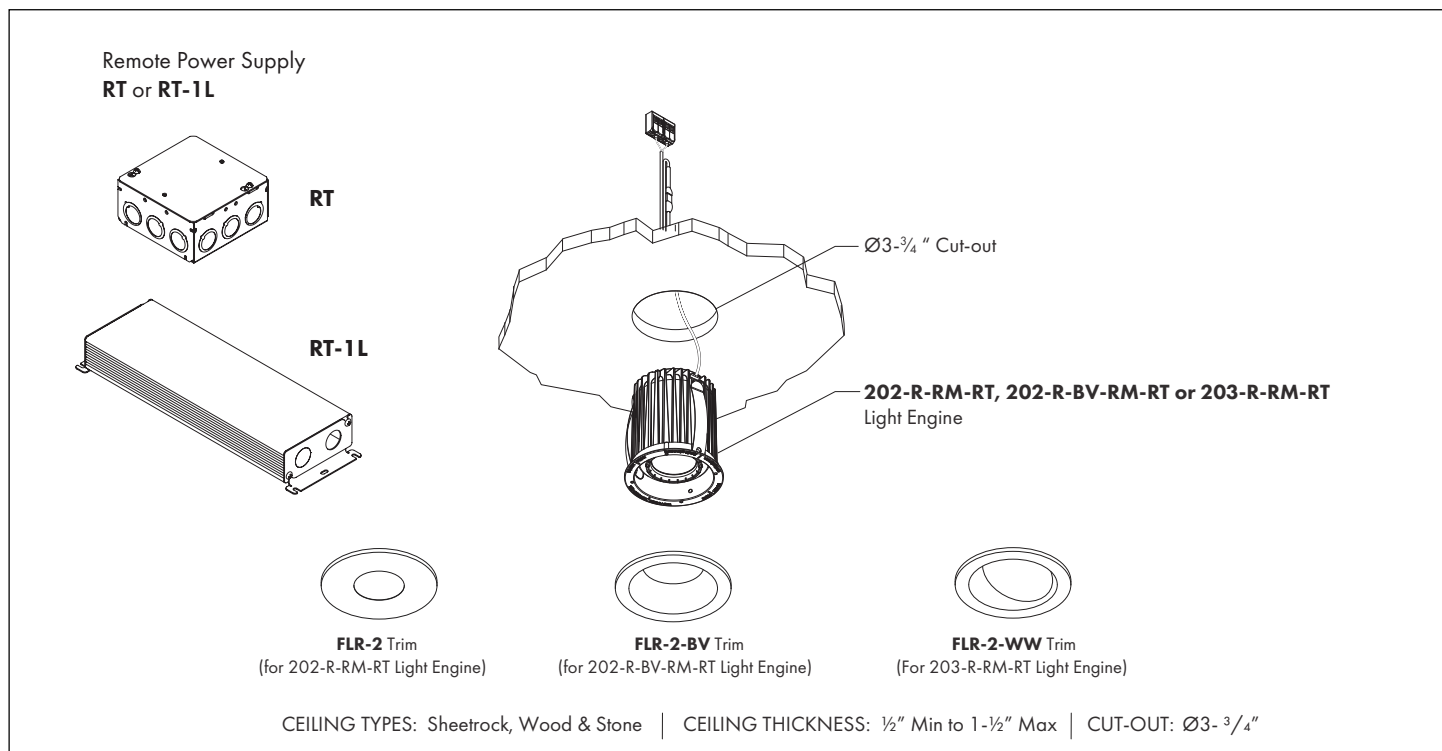
OPTIC OPTIONS + ACCESSORIES	
TIR-15 15° Narrow spot TIR-25 25° Narrow flood TIR-40 40° Flood TIR-60 60° Wide flood	
NSP Narrow softening lens NFL Medium softening lens FL Wide softening lens WFL Extra wide softening lens LS Linear spread Lens	

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 4-½" rough ceiling space required for installation.

REMODEL - REMOTE INSTALLATION - FLANGED TRIMS

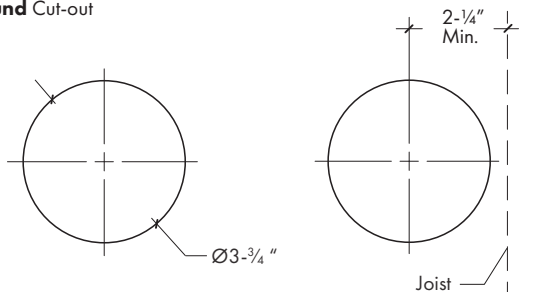
STEP 2 – ROUGH WIRING

- 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.

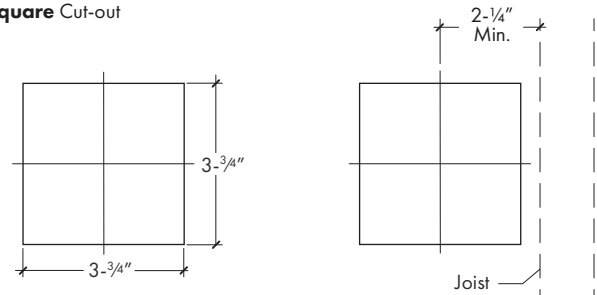
STEP 2 – CEILING CUT-OUT AND INSTALLATION

- 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

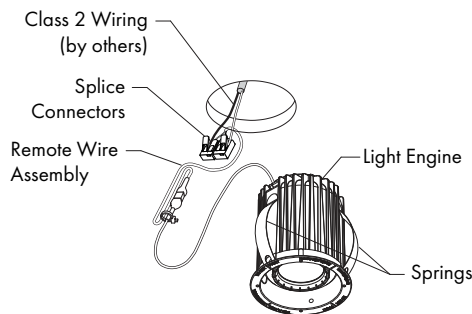


Square Cut-out

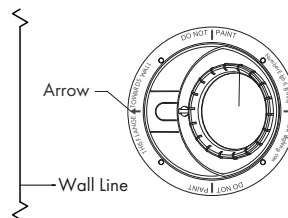


STEP 3 – LIGHT ENGINE WIRING AND INSTALLATION

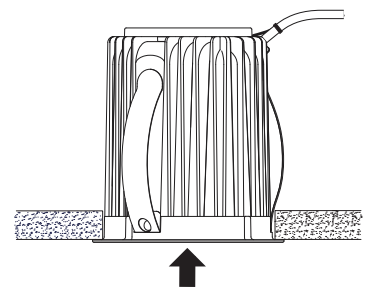
- 3a. Route class 2 wiring from remote power supply to fixture location and pull through ceiling cut-out ensuring a minimum of 6" of wire extends below the ceiling.
Support Light Engine and attach remote wire assembly splice connectors to Class 2 wiring.
Depress all springs inward & install light engine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



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



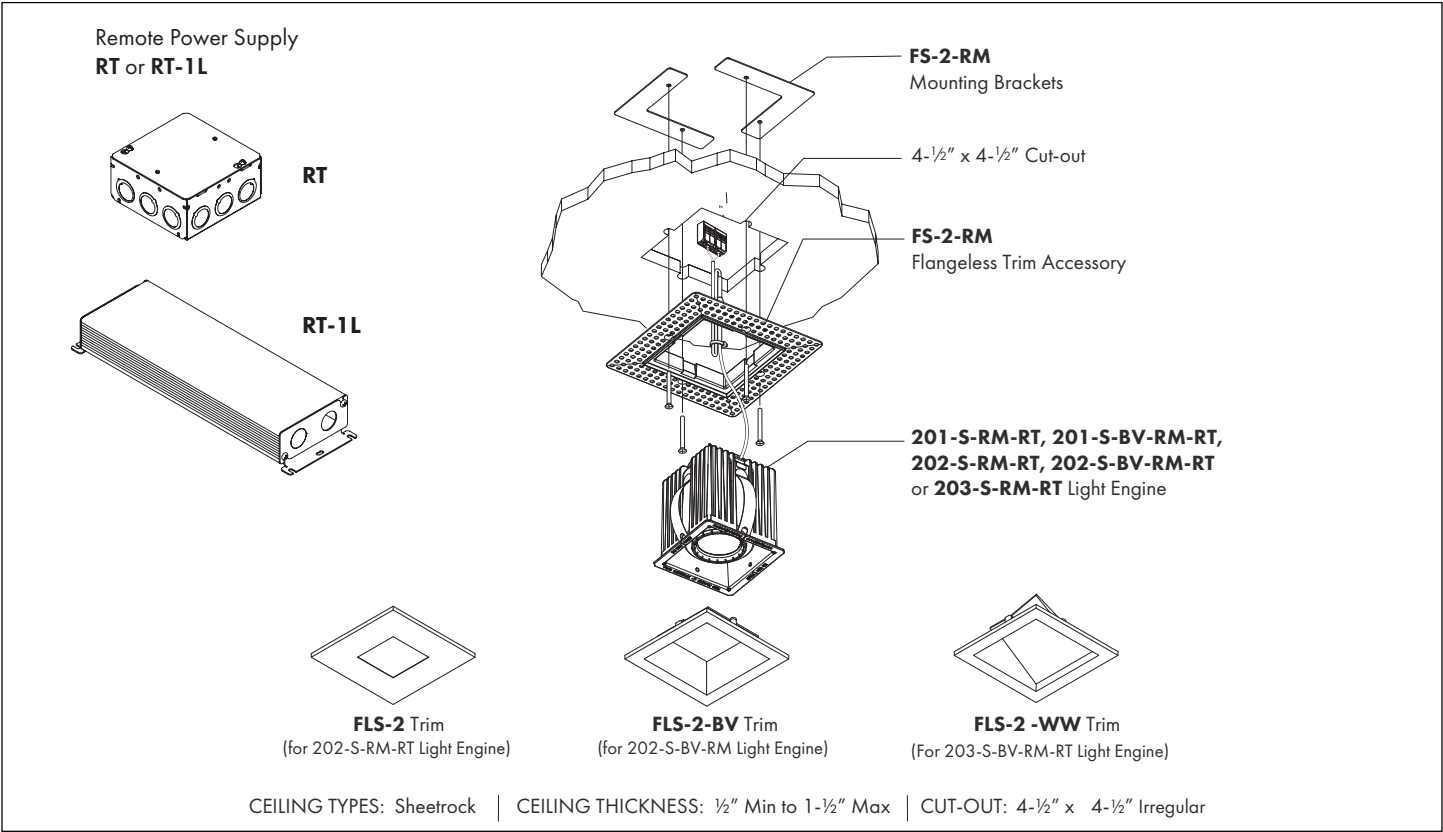
- 3c. Install light engine through cut-out.



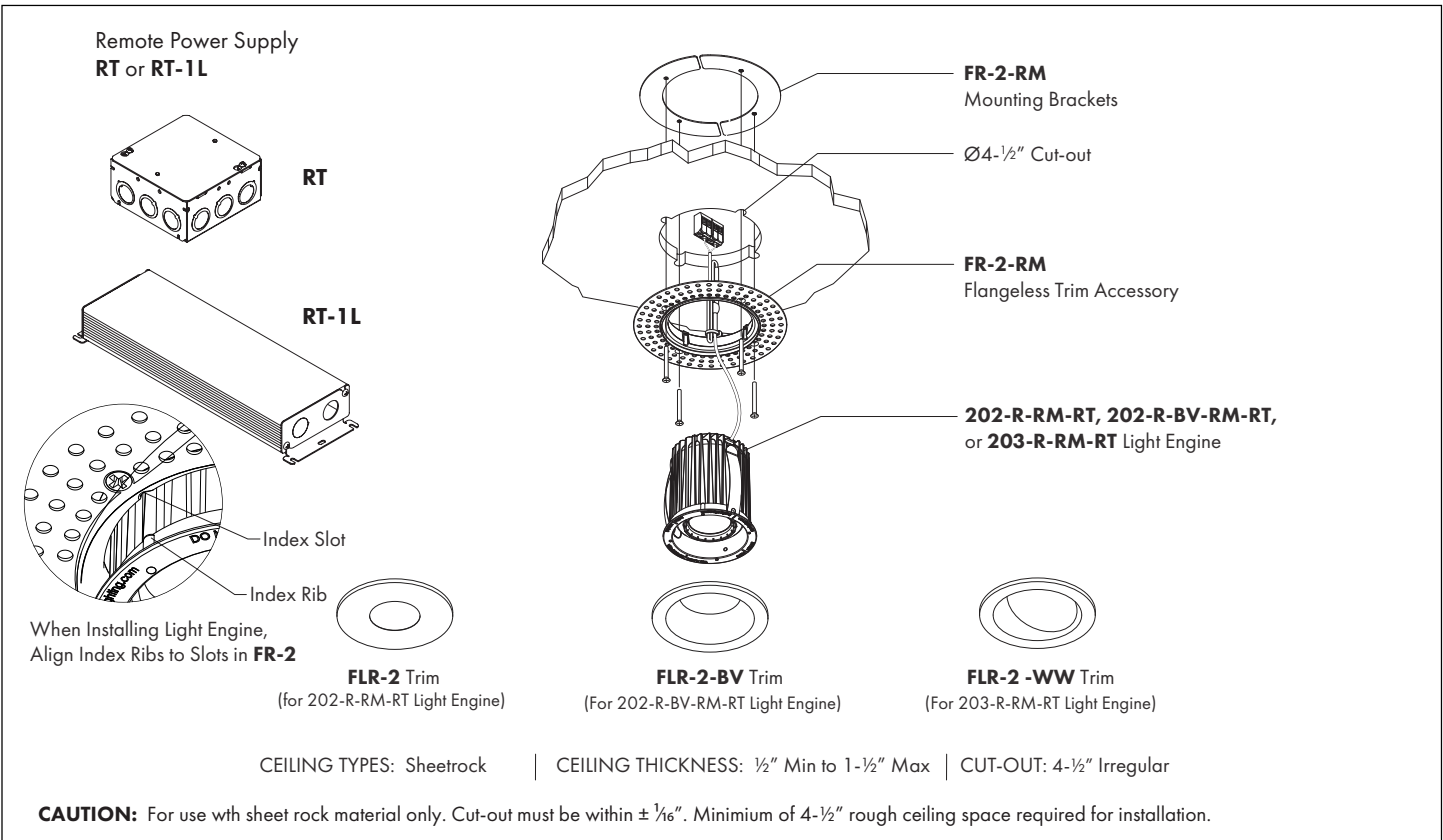
- 3d. Install trim plate (see page 8).

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.

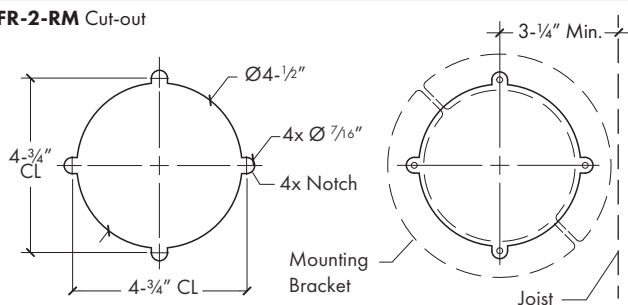
2b. (Skip this step if installing into existing ceiling)

Install ceiling material over rough wiring.

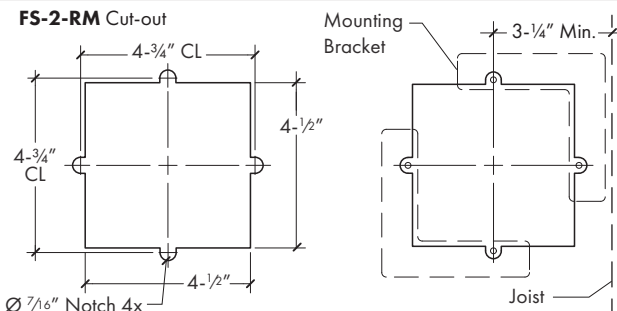
Note: Rough wiring will be accessible after making ceiling cut-out. Certain local electrical codes may require rough wiring to be installed in temporary junction box (not supplied) prior to installing ceiling.

2c. Make cut-outs as shown below.

FR-2-RM Cut-out

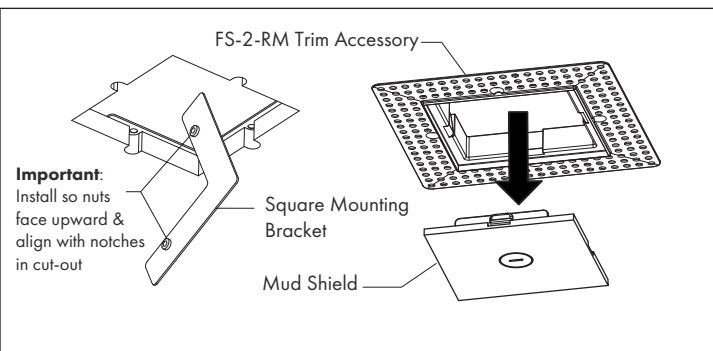
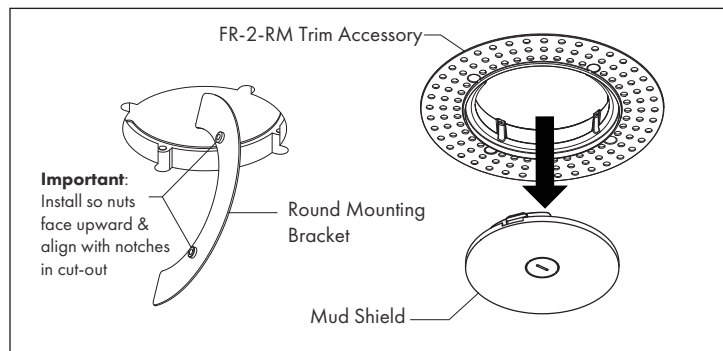


FS-2-RM Cut-out



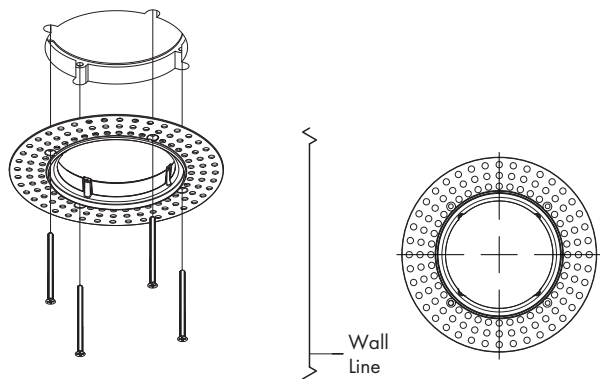
STEP 3 - FLANGELESS TRIM INSTALLATION

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**.

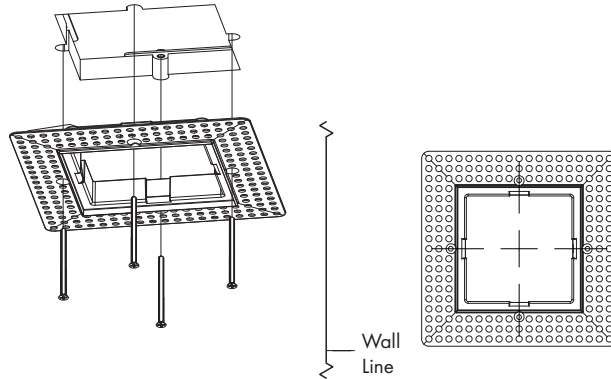


3b. Rotate trim to be aligned with adjacent walls or fixtures as shown below. **Note:** hand tighten trim screws. A power driver is not recommended.

FR-2-RM FLANGELESS TRIM



FS-2-RM FLANGELESS TRIM

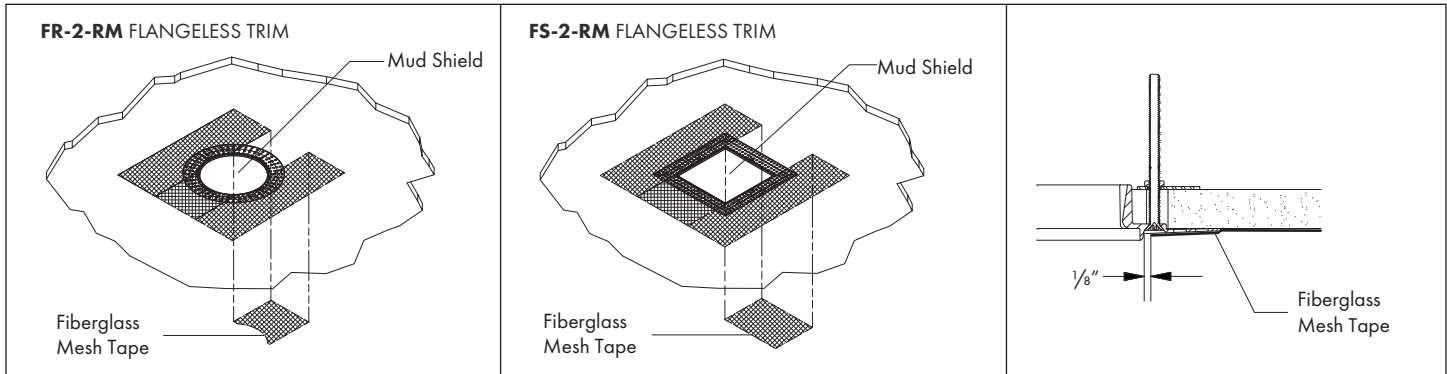


REMODEL - REMOTE INSTALLATION - FLANGELESS TRIMS

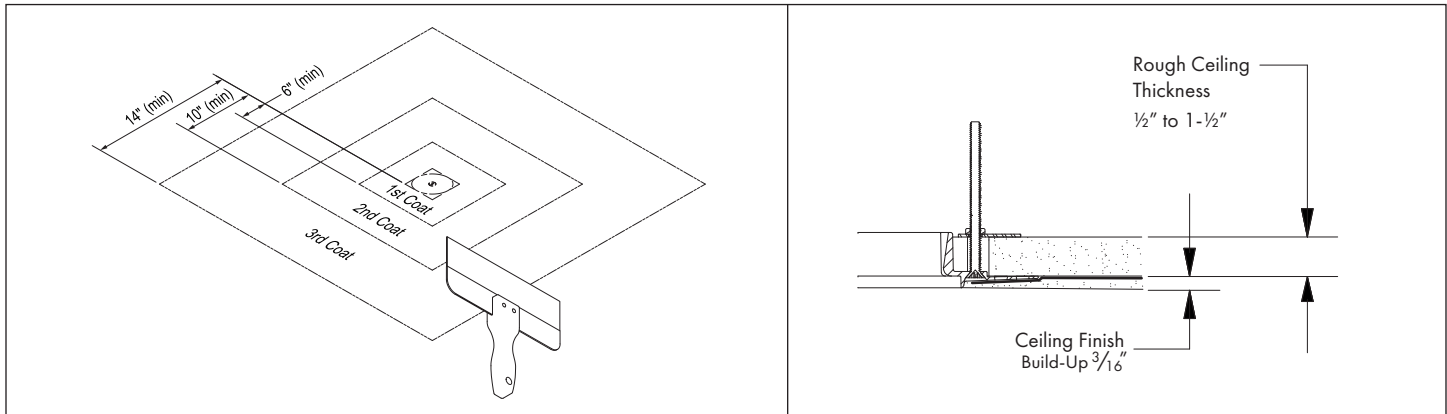
STEP 3 – FLANGELESS TRIM INSTALLATION (CONTINUED)

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.

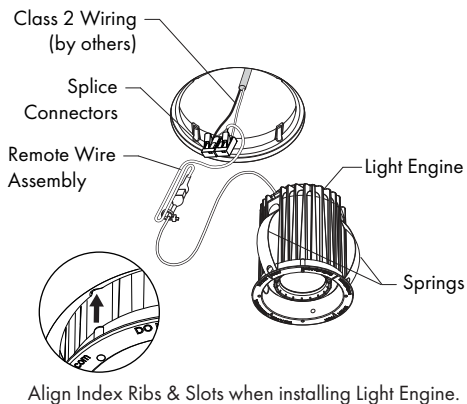
3k. Remove excess material from inside edges of trim.

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

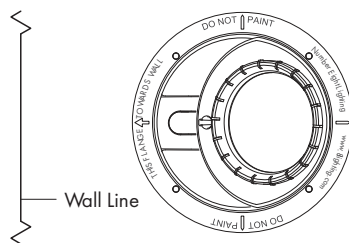
REMODEL - REMOTE INSTALLATION - FLANGELESS TRIMS

STEP 4 – LIGHT ENGINE WIRING AND INSTALLATION

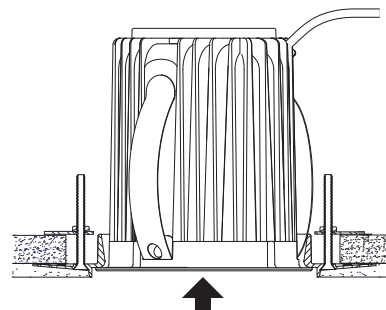
- 4a.** Route class 2 wiring from remote power supply to fixture location and pull through ceiling cut-out ensuring a minimum of 6" of wire extends below the ceiling. Support Light Engine and attach remote wire assembly splice connectors to Class 2 wiring. Depress all springs inward & install light engine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



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



- 4c.** Install light engine into flangeless trim.



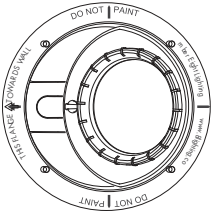
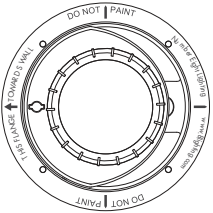
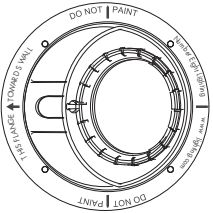
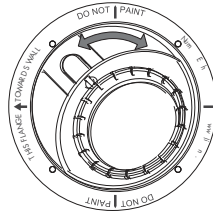
- 4d.** Install trim plate (see page 8).

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°)

VERTICAL AIMING ANGLE ADJUSTMENT			HORIZONTAL AIMING ANGLE ADJUSTMENT
			

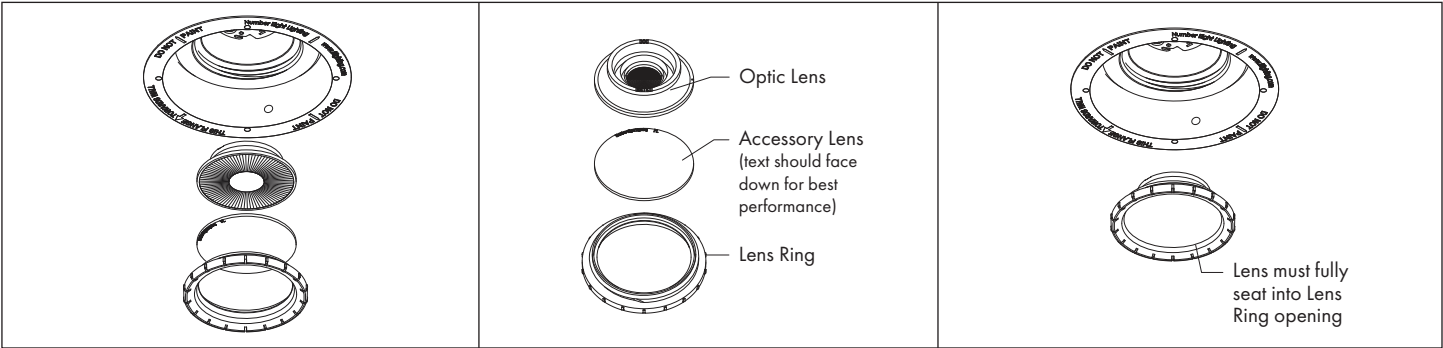
STEP 2 – LENS AND ACCESSORY REMOVAL AND REPLACEMENT

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.

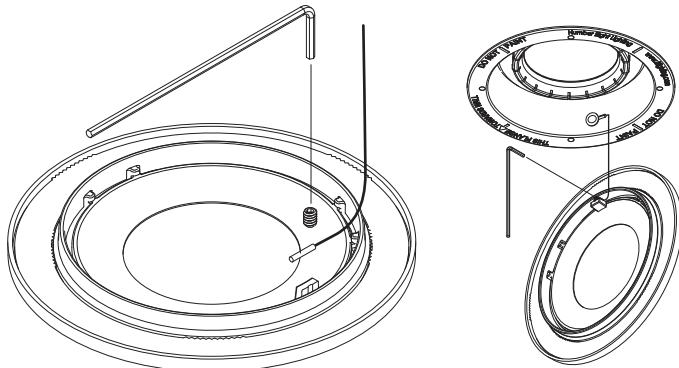
Do not paint edges of trim plate if using with FR-2 or FS-2 flangeless trim.

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.

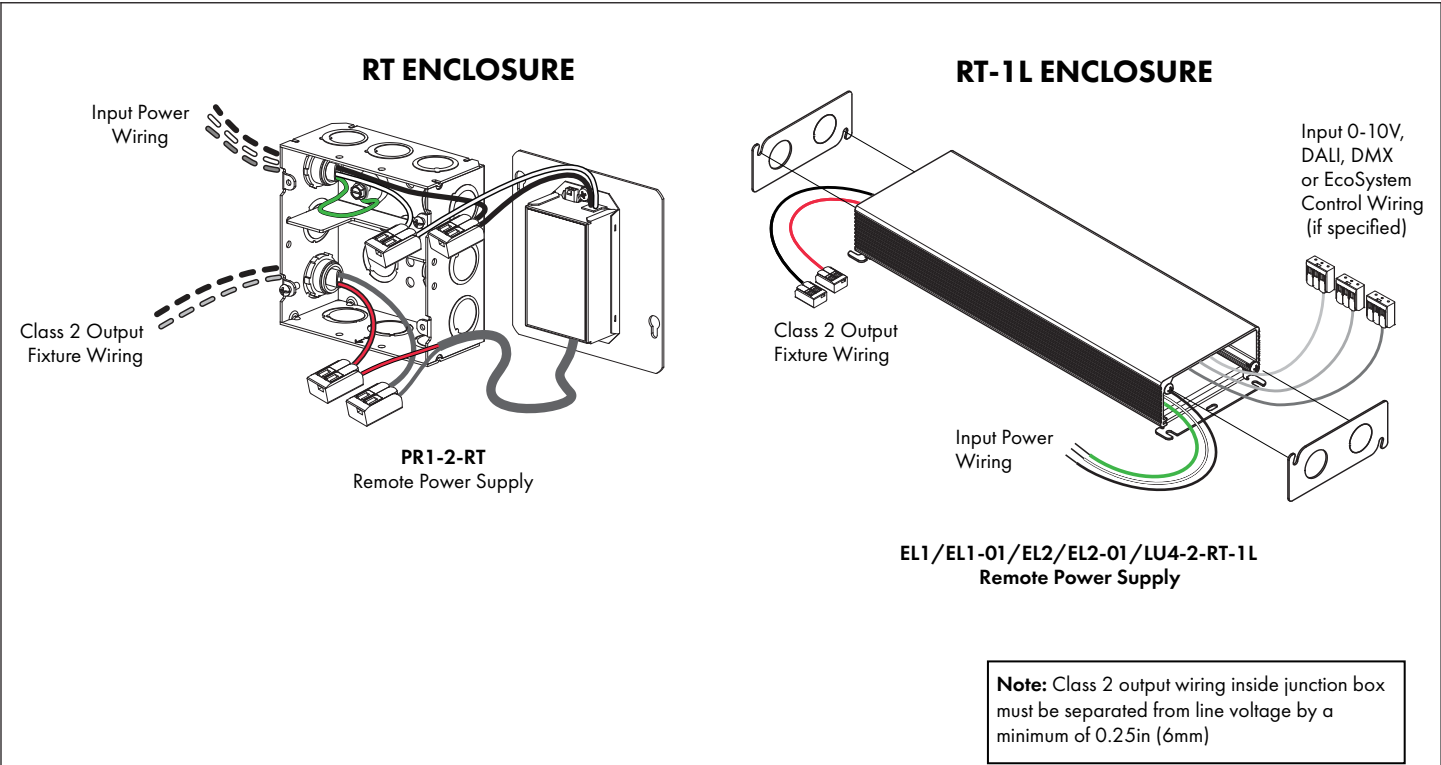


FIG 9.1 Wire & Install Remote Power Supply

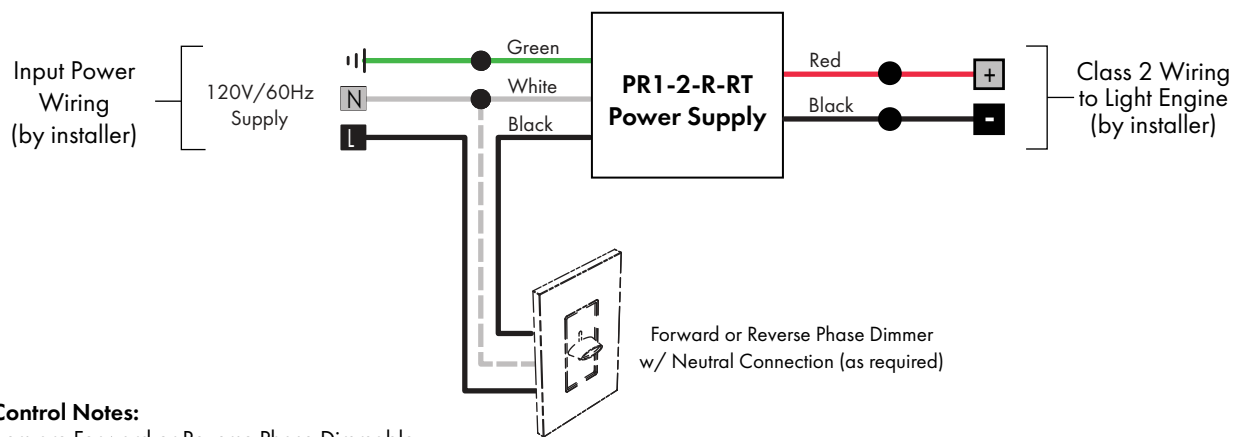
Maximum REMOTE Driver-to-LED Light Engine Wire Length		
Driver Model		Wire Gauge
PR1-2-R-RT	EL1/EL1-01/EL2/EL2-01/ LU4-2-R-RT-1L	
8 ft (2.5 m)		24 AWG (0.2 mm²)
13 ft (4 m)		22 AWG (0.34 mm²)
20 ft (6 m)		20 AWG (0.5 mm²)
30 ft (9 m)		18 AWG (.75 mm²)
35 ft (10.5 m)		16 AWG (1.5 mm²)
50 ft (15 m)		14 AWG (2.5 mm²)
100 ft (30 m)		12 AWG (4.0 mm²)
Wire Type: Stranded Class 2 wire (supplied by others)		

FIG 9.2 Remote Power Supply Class 2 Wire Length

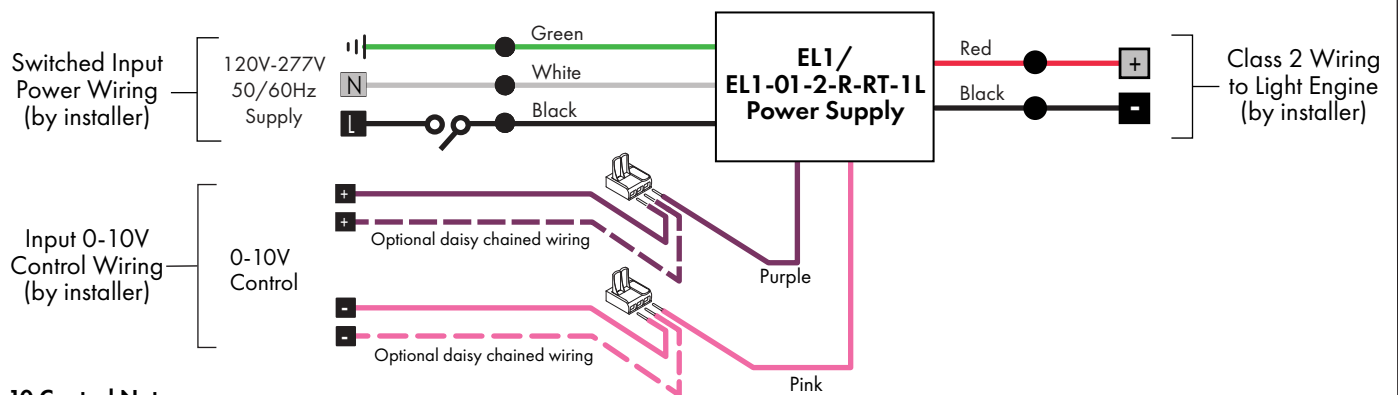
WIRING DIAGRAMS

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

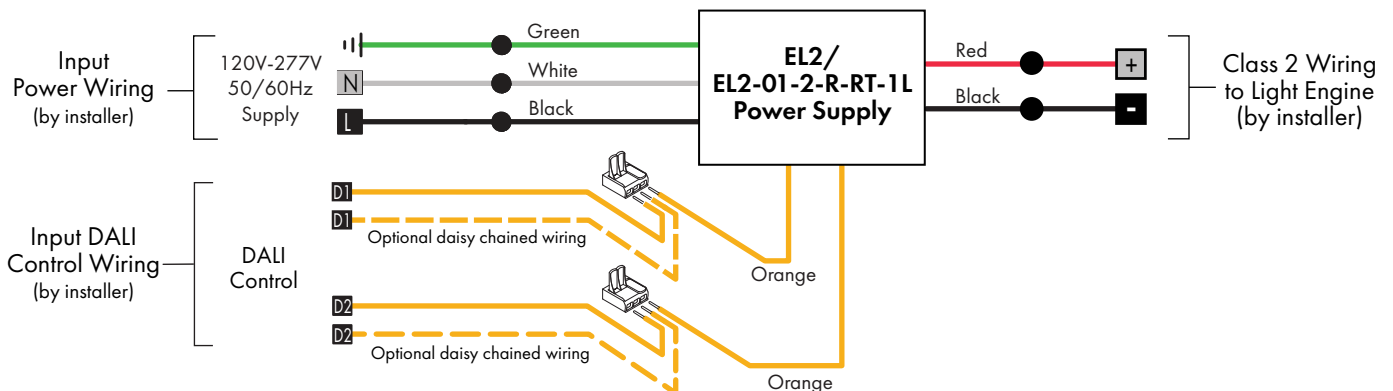


EL1/EL1-01-2-R-RT - REMOTE 0-10V CONTROL



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

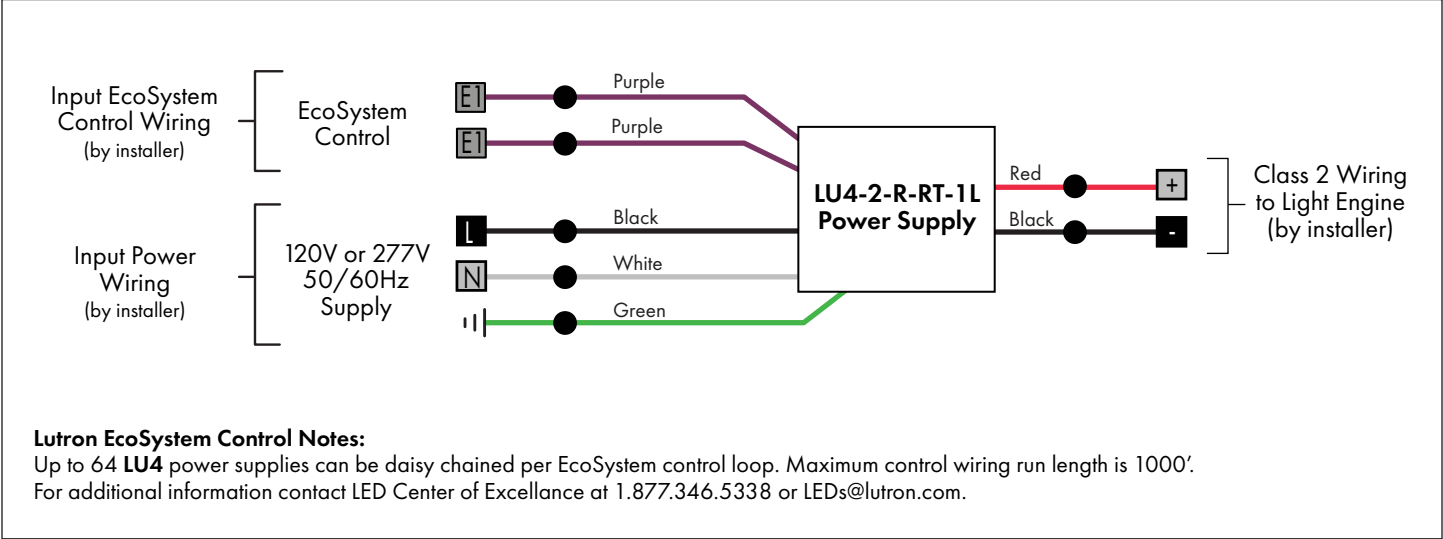


DALI Control Notes:
DALI control wiring is NOT polarity sensitive and can be run as Class 1 or 2.
Up to 64 **EL2** power supplies can be daisy chained per DALI control loop. Maximum control wiring run length is 1000'.

WIRING INSTRUCTIONS

For LU4-2-R-RT Remote Dimming Options

LU4-2-R-RT - REMOTE ECOSYSTEM CONTROL





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