N° eight
LIGHTING

®

200-RM-RT SERIES
REMODEL - REMOTE POWER SUPPLY
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 www.8lighting.com for current product specifications.
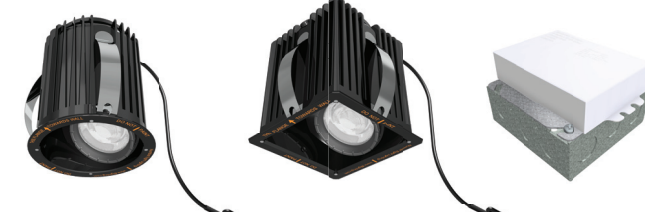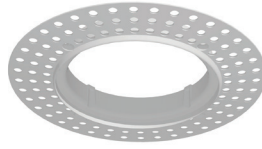
NOTE: Number Eight Lighting fixtures are designed to meet the latest NEC requirements and are listed in full compliance with UL standards. Before attempting installation check and understand your local electrical code which sets the wiring standards and installation requirements for your locality.
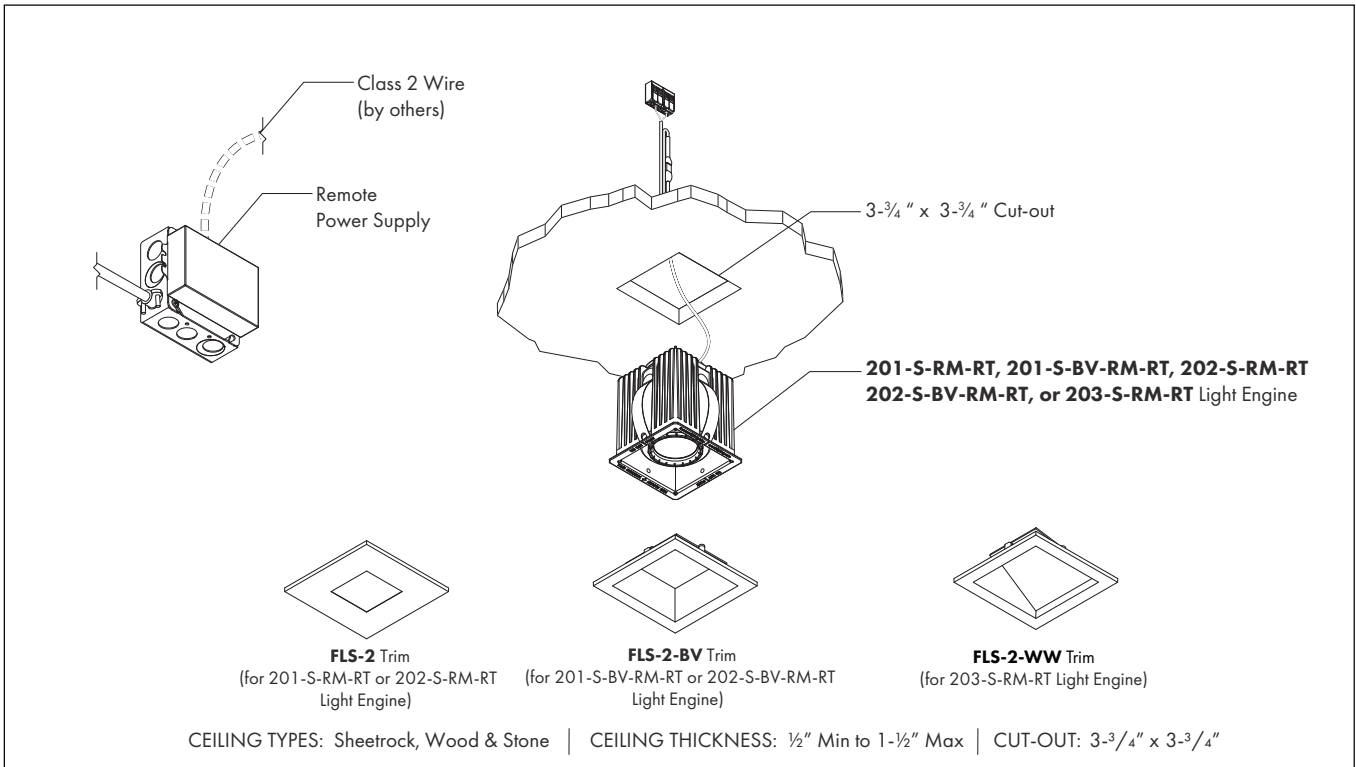
Save these instructions.

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200 SERIES COMPONENTS

201-RM-RT FIXED POSITION LIGHT ENGINE + REMOTE POWER SUPPLY

**201-R-RM-RT/
201-R-BV-RM-RT**

**201-S-RM-RT/
201-S-BV-RM-RT**

202-RM-RT ADJUSTABLE LIGHT ENGINE + REMOTE POWER SUPPLY

**202-R-RM-T/
202-R-BV-RM-RT**

**202-S-RM-RT/
202-S-BV-RM-RT**

203-RM-RT WALL WASH LIGHT ENGINE + POWER SUPPLY

203-R-RM-RT

203-S-RM-RT

WALL WASH TRIM PLATES (for 203-R/S-RM-RT Light Engines)

FLR-2-WW

FLS-2-WW

FLAT TRIM PLATES (for 201/202-R/S-RM-RT Light Engines)

FLR-2

FLS-2

BEVEL TRIM PLATES (for 201/202-R/S-BV-RM-RT

FLR-2-BV

FLS-2-BV

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)

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

201/202/203-S-RM-RT and 201/202/203-S-BV-RM-RT SQUARE LIGHT ENGINES

Class 2 Wire
(by others)

Remote
Power Supply

3-¾ " x 3-¾ " Cut-out

201-S-RM-RT, 201-S-BV-RM-RT, 202-S-RM-RT 202-S-BV-RM-RT, or 203-S-RM-RT Light Engine

FLS-2 Trim
(for 201-S-RM-RT or 202-S-RM-RT
Light Engine)

FLS-2-BV Trim
(for 201-S-BV-RM-RT or 202-S-BV-RM-RT
Light Engine)

FLS-2-WW Trim
(for 203-S-RM-RT Light Engine)

CEILING TYPES: Sheetrock, Wood & Stone │ CEILING THICKNESS: ½" Min to 1-½" Max │ CUT-OUT: 3-³/₄" x 3-³/₄"

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

Remote
Power Supply

Ø3-¾ " Cut-out

201-R-RM-RT, 201-R-BV-M-RT, 202-R-RM-RT, 202-R-BV-RM-RT, or 203-R-RM-RT Light Engine

FLR-2 Trim
(for 201-R-RM-RT or 202-R-RM-RT
Light Engine)

FLR-2-BV Trim
(for 201-R-BV-RM-RT or 202-R-BV-RM-RT
Light Engine)

FLR-2-WW Trim
(For 203-R-RM-RT
Light Engine)

CEILING TYPES: Sheetrock, Wood & Stone │ CEILING THICKNESS: ½" Min to 1-½" Max │ CUT-OUT: Ø3- ³/₄"

Caution: Cut-out must be within ± 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

1a. Disconnect power at circuit breaker.

1b. Review wiring instructions on pages 9 -14, 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: 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 2-¼″ from nearest framing member and there is a minimum of 4-½″ 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 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.
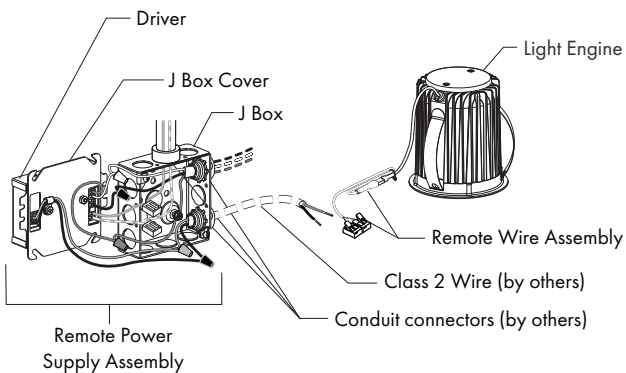
2d. Make cut-outs as shown.

Round Cut-out

2-¼″ Min.

Ø3-¾ ″

Joist

**Square** Cut-out

2-¼″ Min.

3-¾″

3-¾″
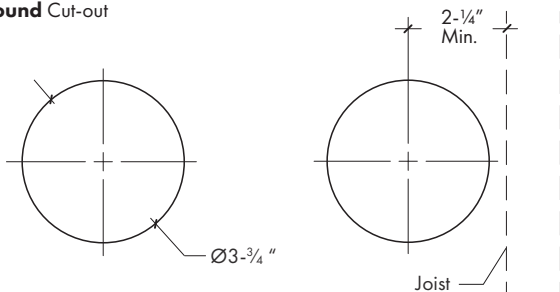
Joist
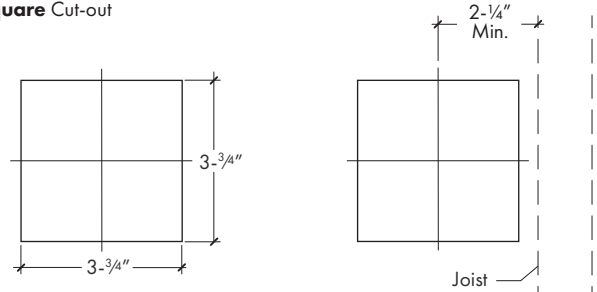
STEP 3 – REMOTE POWER SUPPLY CLASS 2 WIRING

3a. Remove box cover on power supply assembly, install appropriate conduit connector (not supplied) & connect driver to class 2 wire. Place all wiring connectors back in junction box and replace cover.

Driver

J Box Cover

J Box

Light Engine

Remote Wire Assembly

Class 2 Wire (by others)

Conduit connectors (by others)

Remote Power Supply Assembly

3b. 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.

Class 2 Wiring (by others)
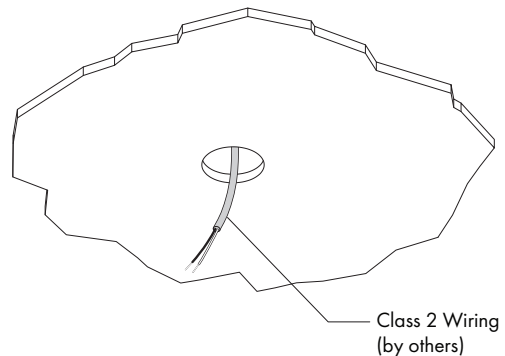
STEP 4 – LIGHT ENGINE WIRING AND INSTALLATION

4a. Support light engine & attach remote wire assembly splice connectors to Class 2 wiring. Depress all springs inward & install light engine into ceiling.

Splice Connectors

Remote Wire Assembly

Light Engine

Springs
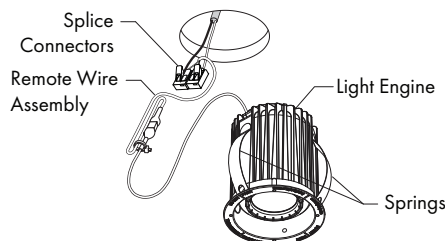
4b. Align light engine so arrow shown on flange is perpendicular with adjacent wall.

Arrow

Wall Line
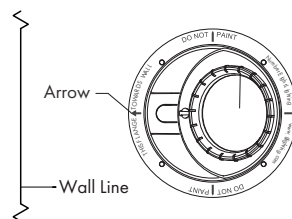
4c. Install light engine through cut-out.

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

REMODEL - REMOTE INSTALLATION - FLANGELESS TRIMS

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

Class 2 Wire
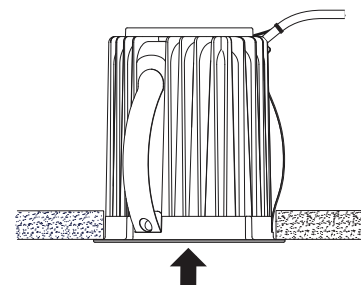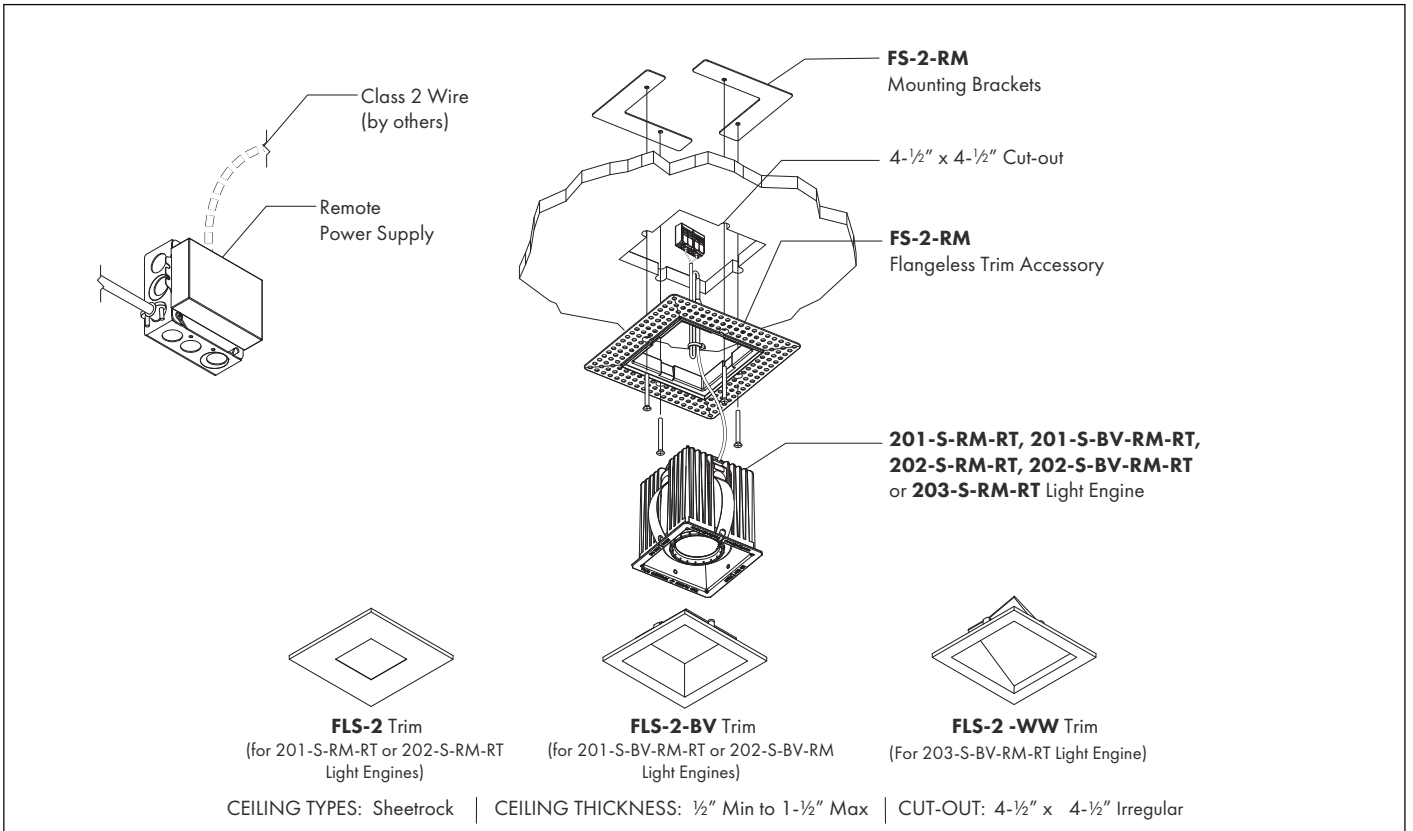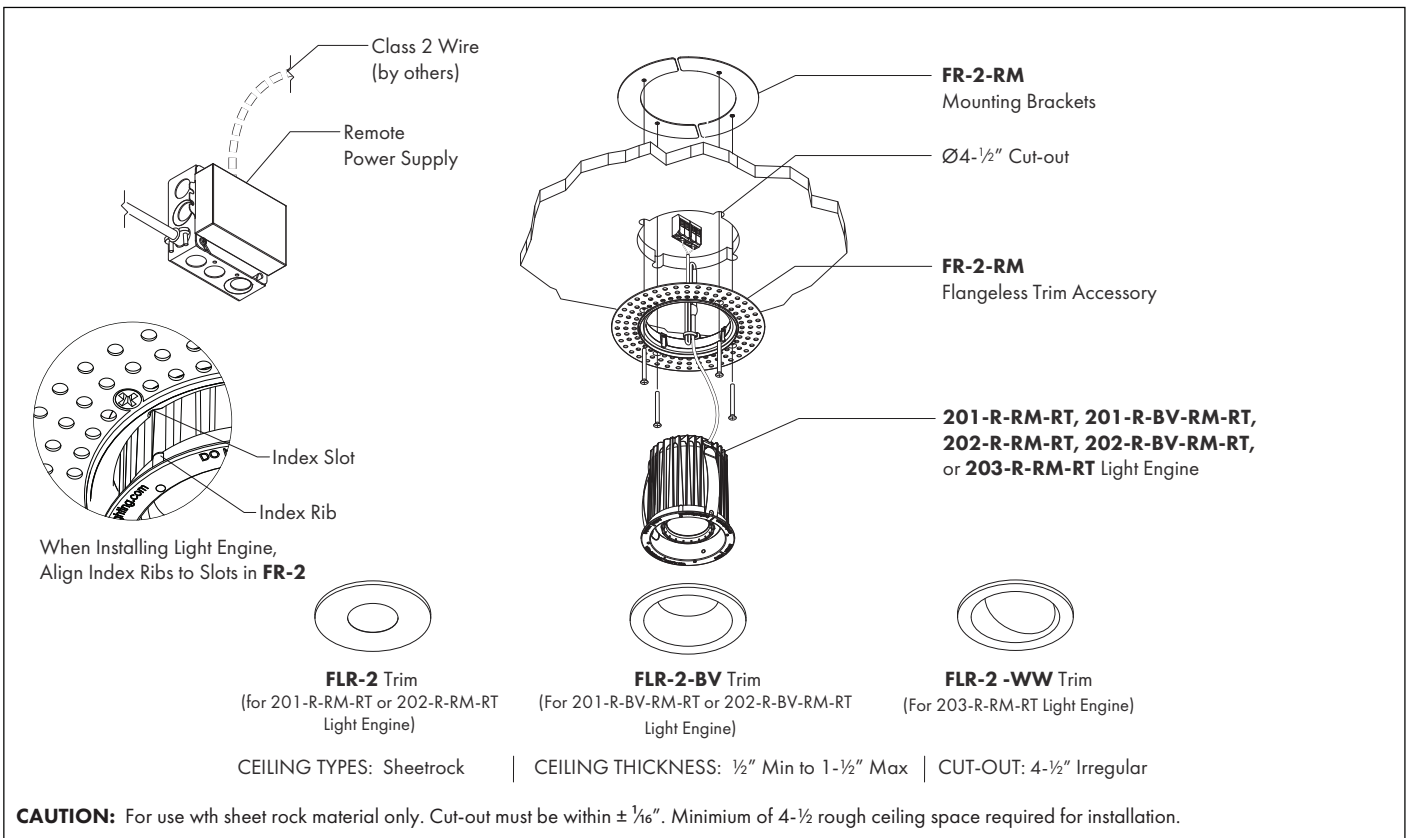(by others)

Remote
Power Supply

FS-2-RM
Mounting Brackets

4-½" x 4-½" Cut-out

FS-2-RM
Flangeless Trim Accessory

**201-S-RM-RT, 201-S-BV-RM-RT,
202-S-RM-RT, 202-S-BV-RM-RT**
or **203-S-RM-RT** Light Engine

FLS-2 Trim
(for 201-S-RM-RT or 202-S-RM-RT
Light Engines)

FLS-2-BV Trim
(for 201-S-BV-RM-RT or 202-S-BV-RM
Light Engines)

FLS-2 -WW Trim
(For 203-S-BV-RM-RT Light Engine)

| CEILING TYPES: Sheetrock | CEILING THICKNESS: ½" Min to 1-½" Max | CUT-OUT: 4-½" x 4-½" Irregular |

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

Class 2 Wire
(by others)

Remote
Power Supply

FR-2-RM
Mounting Brackets

Ø4-½" Cut-out

FR-2-RM
Flangeless Trim Accessory

**201-R-RM-RT, 201-R-BV-RM-RT,
202-R-RM-RT, 202-R-BV-RM-RT,**
or **203-R-RM-RT** Light Engine

Index Slot

Index Rib

When Installing Light Engine,
Align Index Ribs to Slots in **FR-2**

FLR-2 Trim
(for 201-R-RM-RT or 202-R-RM-RT
Light Engine)

FLR-2-BV Trim
(For 201-R-BV-RM-RT or 202-R-BV-RM-RT
Light Engine)

FLR-2 -WW Trim
(For 203-R-RM-RT Light Engine)

| CEILING TYPES: Sheetrock | CEILING THICKNESS: ½" Min to 1-½" Max | CUT-OUT: 4-½" Irregular |

CAUTION: For use wth sheet rock material only. Cut-out must be within ± ⅟₁₆". Minimum of 4-½ rough ceiling space required for installation.
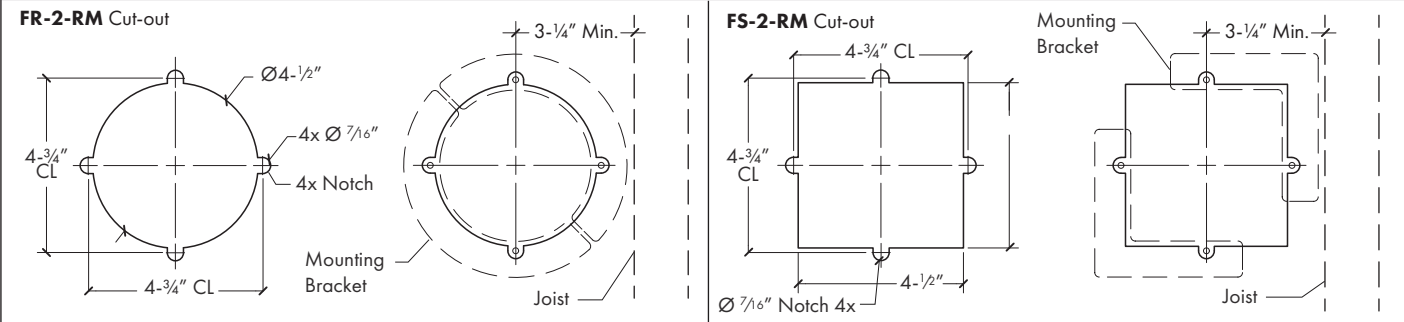
REMODEL - REMOTE INSTALLATION - FLANGELESS TRIMS

STEP 1 - ROUGH WIRING

1a. Disconnect power at circuit breaker.

1b. Review wiring diagrams on pages 9 - 14, 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.

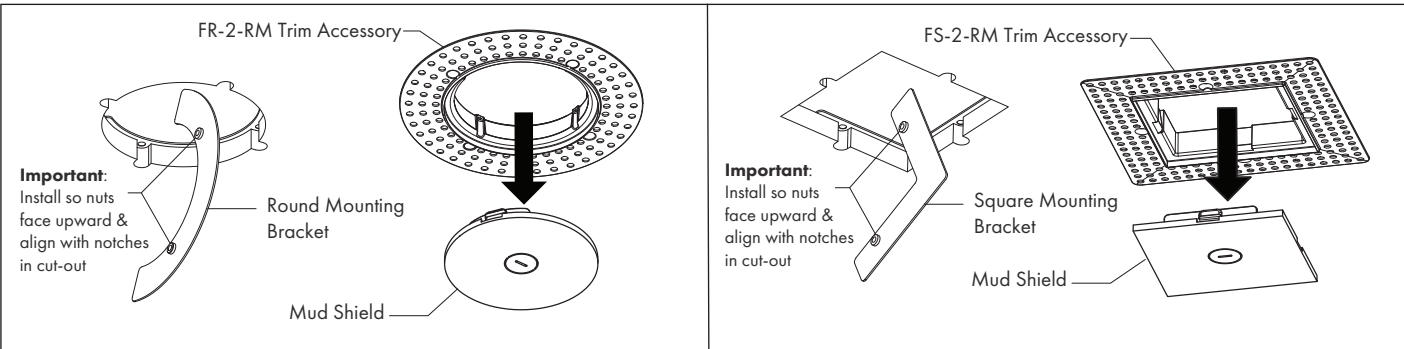**Note: EcoSystem** power supplies (if specified) require additional dimming control wiring.

STEP 2 – CEILING CUT-OUT AND INSTALLATION

2a. Ensure center of cut-out will be a minimum of 3-¼" from nearest framing member and there is a minimum of 4-½" 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 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.

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**.

Important: Install so nuts face upward & align with notches in cut-out

Round Mounting Bracket

Mud Shield

Important: Install so nuts face upward & align with notches in cut-out

Square Mounting Bracket

Mud Shield

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

Wall Line

FS-2-RM FLANGELESS TRIM

Wall Line
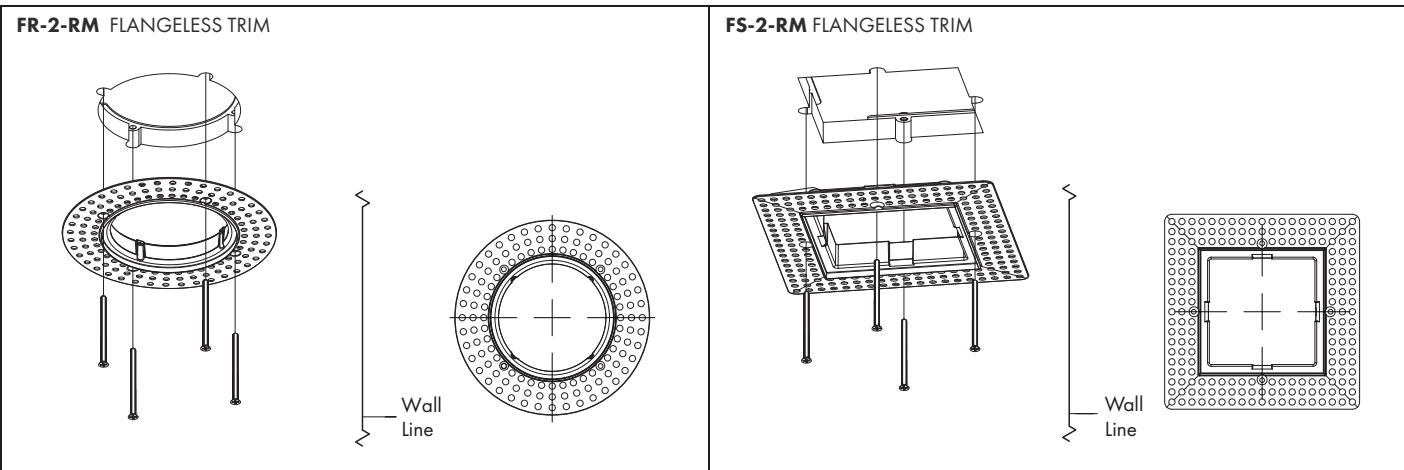
REMODEL - REMOTE INSTALLATION - FLANGELESS TRIMS
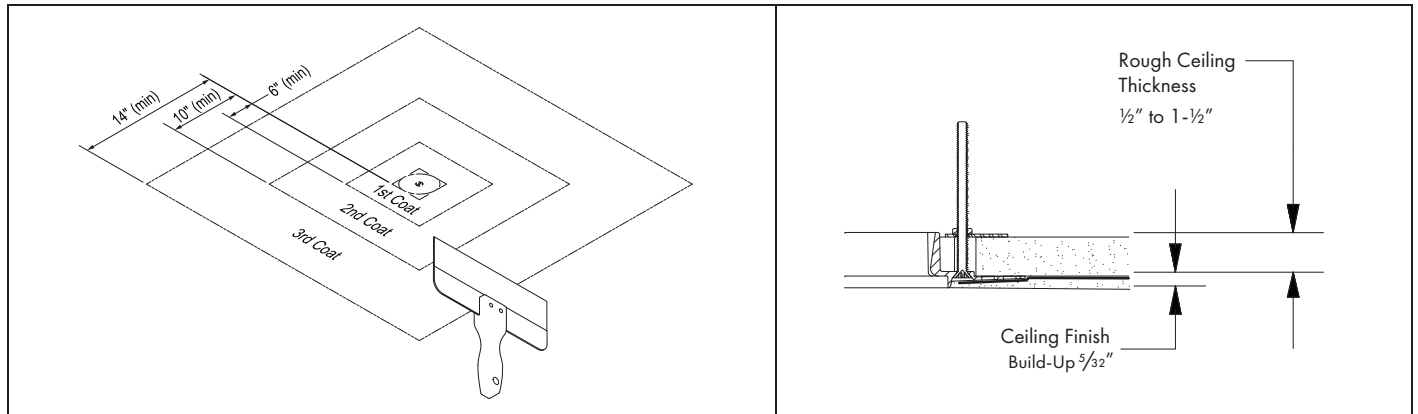
STEP 3 – FLANGELESS TRIM INSTALLATION (CONTINUED)

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.

FR-2-RM FLANGELESS TRIM — Mud Shield — Fiberglass Mesh Tape

FS-2-RM FLANGELESS TRIM — Mud Shield — Fiberglass Mesh Tape

1/8" — Fiberglass Mesh Tape
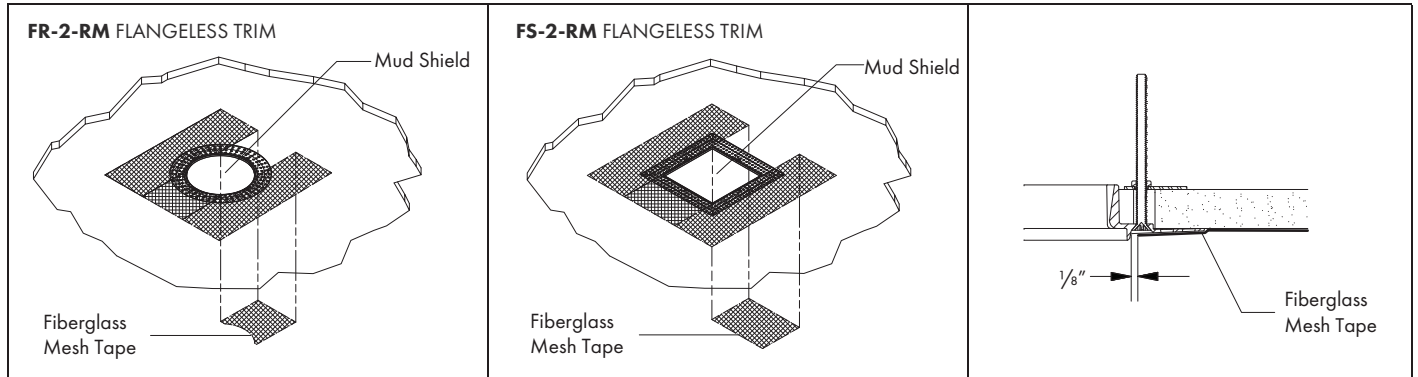
3e. Apply ceiling finish around FR-2-RM or FS-2-RM flangeless trim. **NOTE:** Minimum Level 4 or 5 finish is recommended.

14" (min) — 10" (min) — 6" (min) — 1st Coat — 2nd Coat — 3rd Coat

Rough Ceiling Thickness ½" to 1-½"

Ceiling Finish Build-Up $^5/_{32}$"

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.
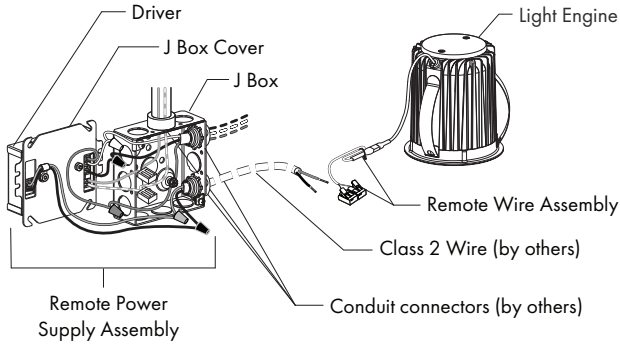
3j. Remove mud shield.

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.
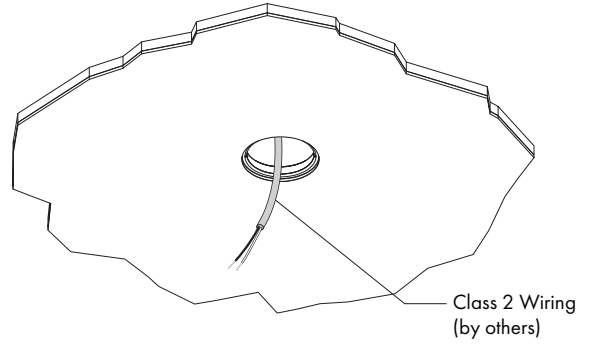
REMODEL - REMOTE INSTALLATION - FLANGELESS TRIMS

4a. Remove box cover on power supply assembly, install appropriate conduit connector (not supplied) & connect driver to class 2 wire. Place all wiring connectors back in junction box and replace cover.

Driver

J Box Cover

J Box

Light Engine

Remote Wire Assembly

Class 2 Wire (by others)

Conduit connectors (by others)

Remote Power Supply Assembly

4b. 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.

Class 2 Wiring (by others)

5a. Support light engine & attach remote wire assembly splice connectors to Class 2 wiring. Depress all springs inward & install light engine into ceiling.

Splice Connectors

Remote Wire Assembly

Light Engine

Springs

Align Index Ribs & Slots when installing Light Engine.

5b. Rotate light engine so the arrow aligns with adjacent walls.

DO NOT PAINT

DO NOT PAINT

Wall Line
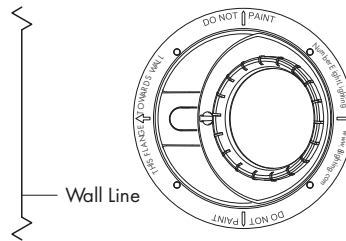
5c. Install light engine into flangeless trim.
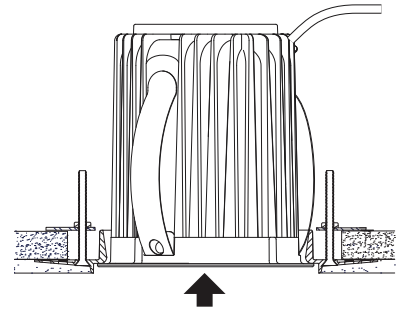
5d. Install trim plate (see page 8).

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°)

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.
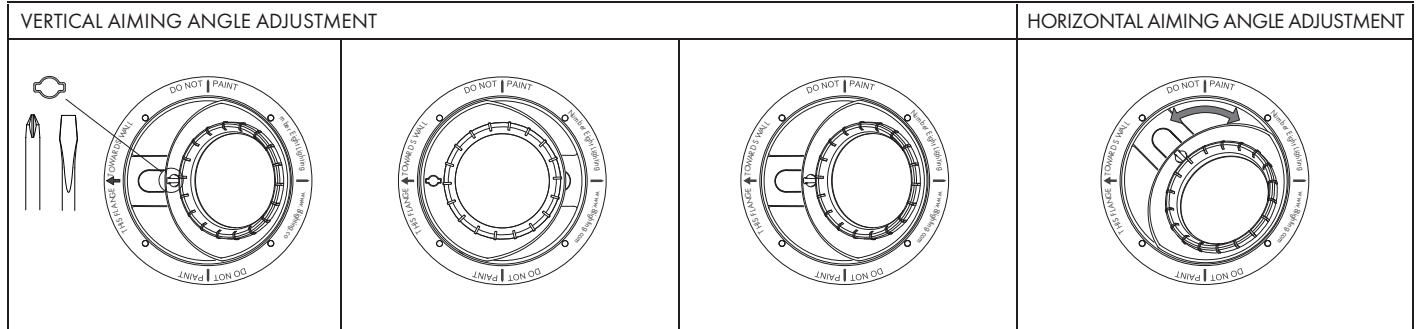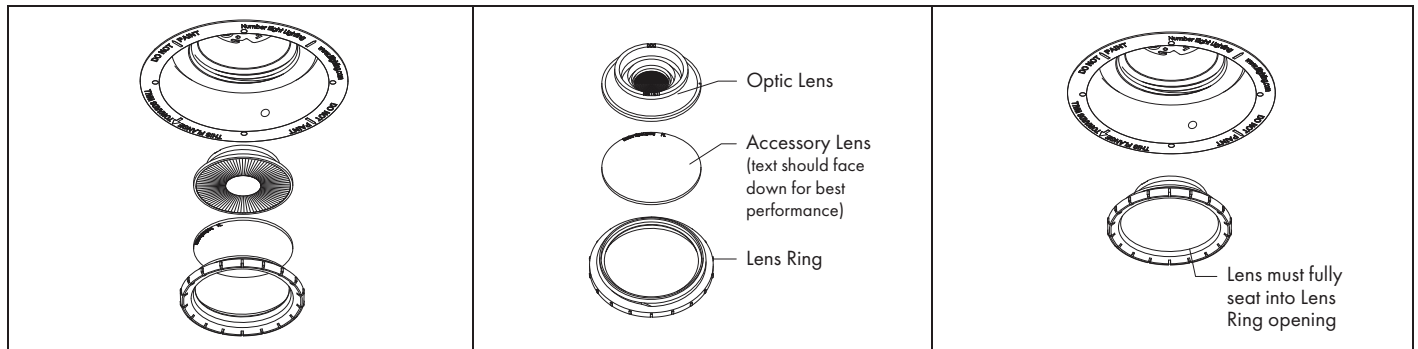**2c.** Install desired optic (and accesory lens if used) by aligning the optic lens in lens ring.
2d. Reinstall lens ring on to lamp holder by turning clockwise.

Optic Lens

Accessory Lens
(text should face
down for best
performance)

Lens Ring

Lens must fully
seat into Lens
Ring opening

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.
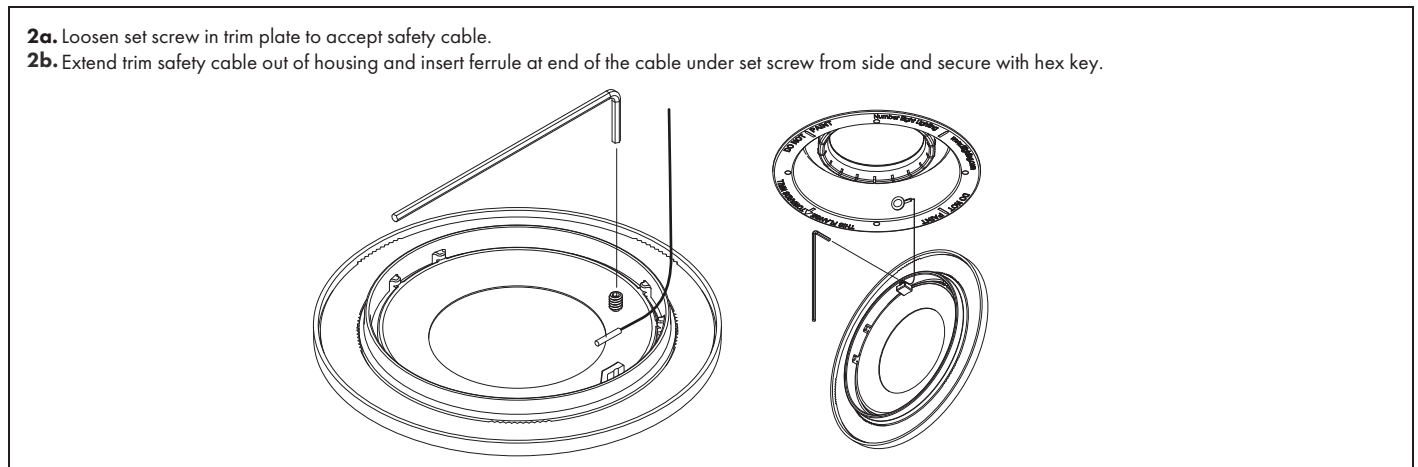
WIRING INSTRUCTIONS

For DIM1/PR1-2-R-RT Remote Dimming Options

Wiring Connections	1. Verify correct power supply model (see label on cover plate), LED type (see label on fixture), wire length and gauge (see chart below) and input requirements (see label on driver). 2. Install Remote Power Supply away from any heat source and make wiring connections following the Wiring Diagram below. 3. Connect fixture supply wires to Class 2 using Splice Connectors provided. 4. Push all wires and connections completely inside Remote Power Supply junction box and replace cover.

DIM1/PR1-2-R-RT - REMOTE PHASE CONTROL

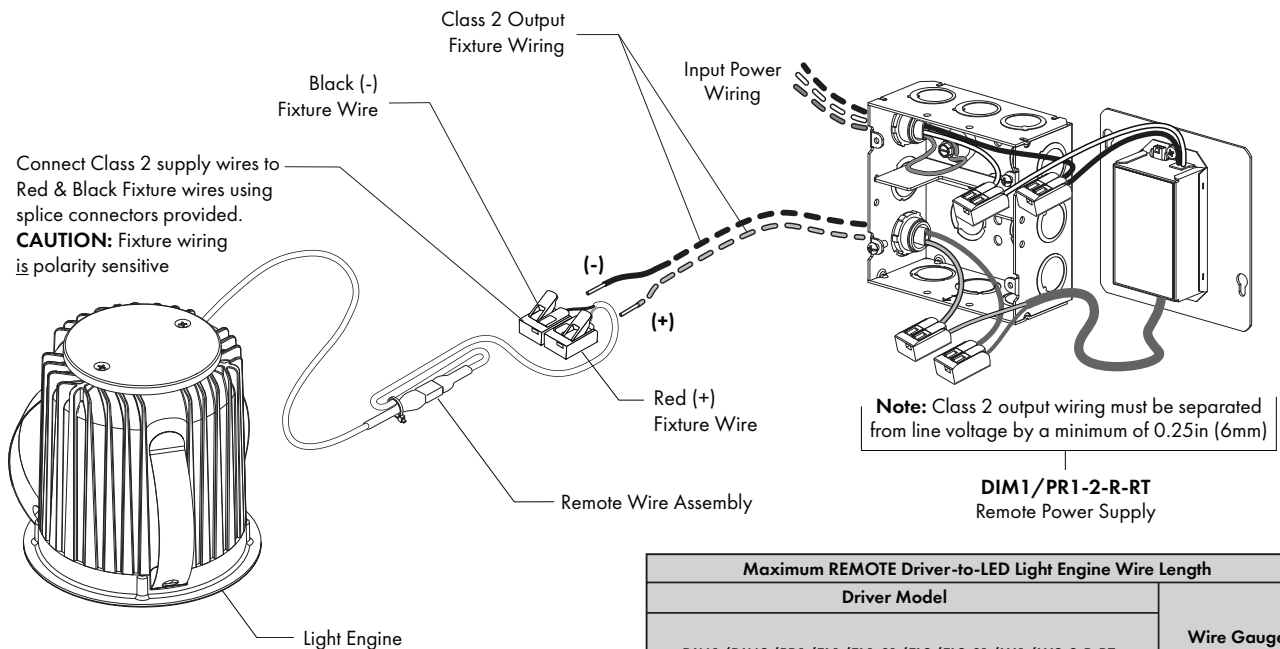Input Power Wiring (by installer)

120V/60Hz Supply

Green
White
Black

N
L

DIM1/ PR1-2-R-RT Driver

Red
Black

+
-

Class 2 Wiring to Light Engine (by installer)

Forward or Reverse Phase Dimmer w/ Neutral Connection (as required)

Class 2 Output Fixture Wiring

Black (-) Fixture Wire

Input Power Wiring

Connect Class 2 supply wires to Red & Black Fixture wires using splice connectors provided.
CAUTION: Fixture wiring is polarity sensitive

(-)

(+)

Red (+) Fixture Wire

Remote Wire Assembly

Light Engine

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

DIM1/PR1-2-R-RT
Remote Power Supply

Maximum REMOTE Driver-to-LED Light Engine Wire Length	
Driver Model DIM1/DIM2/PR1/EL1/EL1-01/EL2/EL2-01/LU1/LU2-2-R-RT	**Wire Gauge**
8 ft (2.5 m)	24 AWG (0.2mm²)
13 ft (4 m)	22 AWG(0.34mm²)
20 ft (6 m)	20 AWG (0.5 mm²)
30 ft (9 m)	18 AWG (0.75 m²)
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)	

Phase Control Notes:
DIM1/PR1 drivers are Forward Phase Dimmable only.
for compatible dimmers for use with **DIM1/PR1** drivers see:
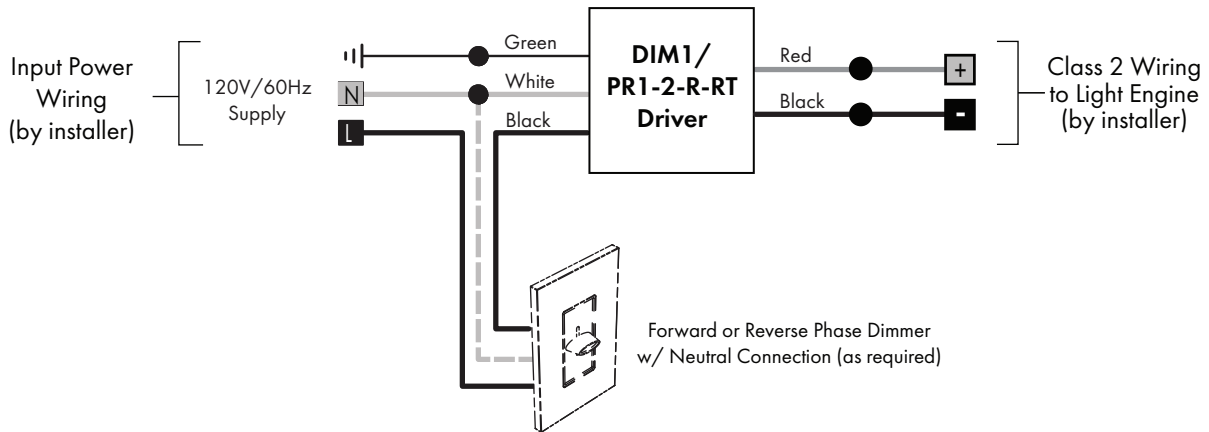www.8lighting.com/resources-downloads.

WIRING INSTRUCTIONS (continued)

For DIM2-2-R-RT Remote Dimming Options

Wiring Connections	1. Verify correct power supply model (see label on cover plate), LED type (see label on fixture), wire length and gauge (see chart below) and input requirements (see label on driver). 2. Install Remote Power Supply away from any heat source and make wiring connections following the Wiring Diagram below. 3. Connect fixture supply wires to Class 2 using Splice Connectors provided. 4. Push all wires and connections completely inside Remote Power Supply junction box and replace cover.

DIM2-2-R-RT - REMOTE 0-10V CONTROL

Switched Input Power Wiring (by installer)

120V-277V 50/60Hz Supply

Green
White
Black

DIM2-2-R-RT Driver

Red
Black

+
−

Class 2 Wiring to Light Engine (by installer)

Input 0-10V Control Wiring (by installer)

0-10V Control

+
+
Optional daisy chained wiring

Purple

−
−
Optional daisy chained wiring

Pink

Class 2 Output Fixture Wiring

Black (-) Fixture Wire

Input 0-10V Control Wiring

Input Power Wiring

Connect Class 2 supply wires to Red & Black Fixture wires using splice connectors provided.
CAUTION: Fixture wiring is polarity sensitive

(-)

(+)

Red (+) Fixture Wire

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

Remote Wire Assembly

Light Engine

DIM2-2-R-RT Remote Power Supply

Maximum REMOTE Driver-to-LED Light Engine Wire Length	
Driver Model DIM1/DIM2/PR1/EL1/EL1-01/EL2/EL2-01/LU1/LU2-2-R-RT	**Wire Gauge**
8 ft (2.5 m)	24 AWG (0.2mm²)
13 ft (4 m)	22 AWG(0.34mm²)
20 ft (6 m)	20 AWG (0.5 mm²)
30 ft (9 m)	18 AWG (0.75 m²)
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)	

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** drivers see: www.8lighting.com/resources-downloads.
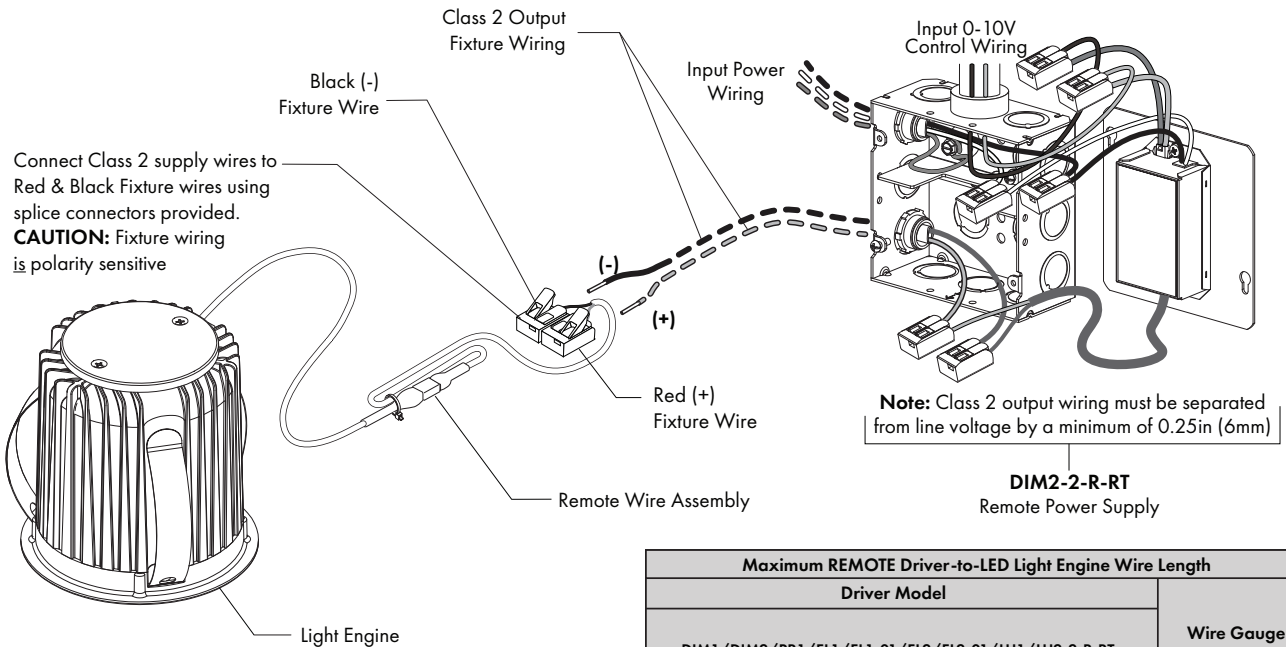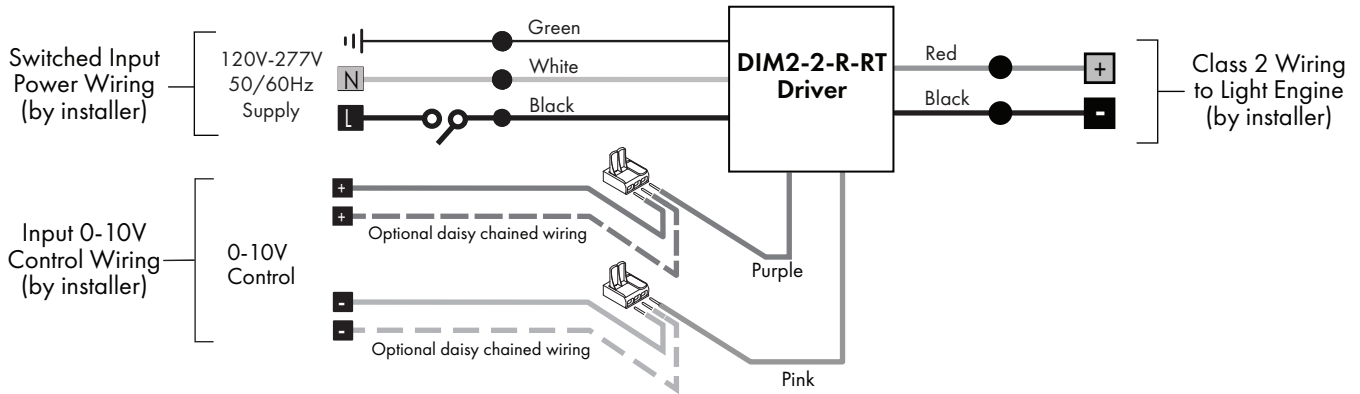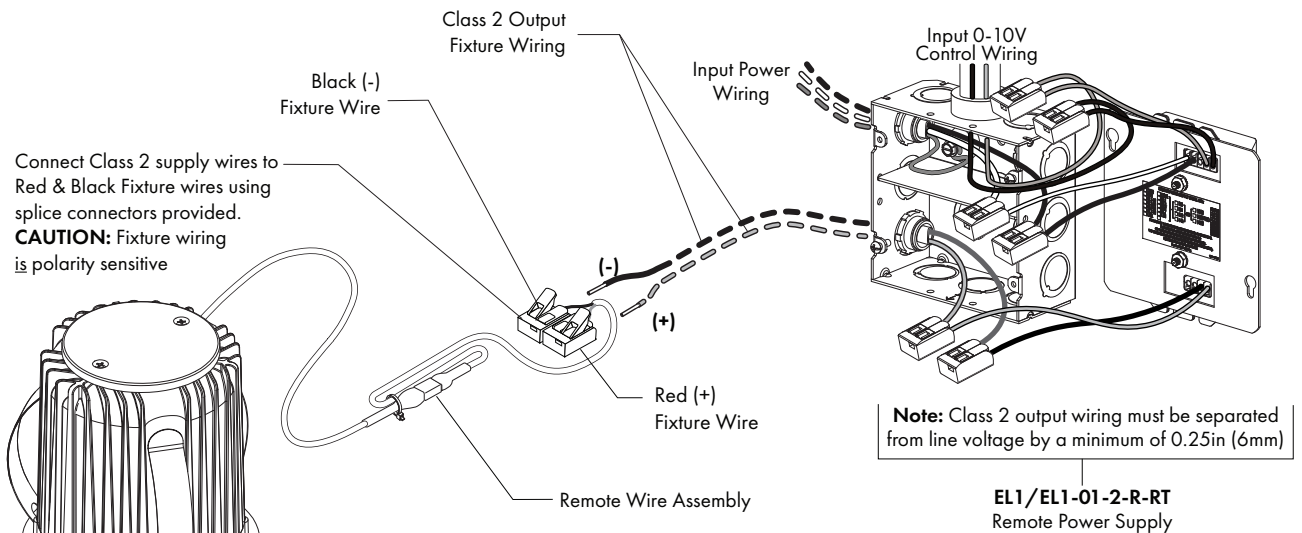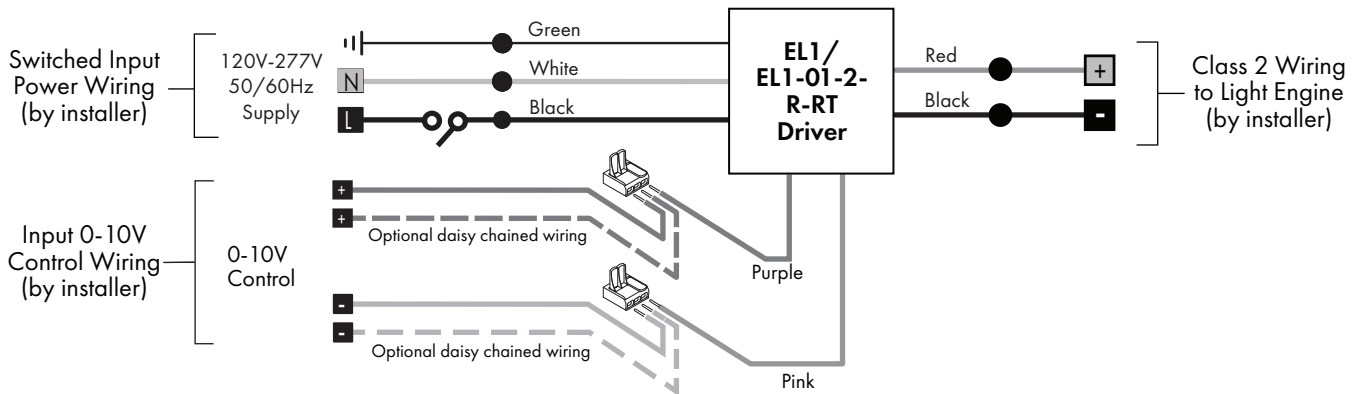
WIRING INSTRUCTIONS (continued)

For EL1/EL1-01-2-R-RT Remote Dimming Options

Wiring Connections	1. Verify correct power supply model (see label on cover plate), LED type (see label on fixture), wire length and gauge (see chart below) and input requirements (see label on driver). 2. Install Remote Power Supply away from any heat source and make wiring connections following the Wiring Diagram below. 3. Connect fixture supply wires to Class 2 using Splice Connectors provided. 4. Push all wires and connections completely inside Remote Power Supply junction box and replace cover.

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

Switched Input Power Wiring (by installer)

120V-277V 50/60Hz Supply

Green
White
Black

EL1/ EL1-01-2- R-RT Driver

Red
Black

Class 2 Wiring to Light Engine (by installer)

Input 0-10V Control Wiring (by installer)

0-10V Control

+
+
Optional daisy chained wiring

-
-
Optional daisy chained wiring

Purple

Pink

Class 2 Output Fixture Wiring

Black (-) Fixture Wire

Input Power Wiring

Input 0-10V Control Wiring

Connect Class 2 supply wires to Red & Black Fixture wires using splice connectors provided. **CAUTION:** Fixture wiring is polarity sensitive

(-)

(+)

Red (+) Fixture Wire

Remote Wire Assembly

Light Engine

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

EL1/EL1-01-2-R-RT Remote Power Supply

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 **EL1** drivers see: www.8lighting.com/resources-downloads.

Maximum REMOTE Driver-to-LED Light Engine Wire Length	
Driver Model	
DIM1/DIM2/PR1/EL1/EL1-01/EL2/EL2-01/LU1/LU2-2-R-RT	**Wire Gauge**
8 ft (2.5 m)	24 AWG (0.2mm^2)
13 ft (4 m)	22 AWG(0.34mm^2)
20 ft (6 m)	20 AWG (0.5 mm^2)
30 ft (9 m)	18 AWG (0.75 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)	

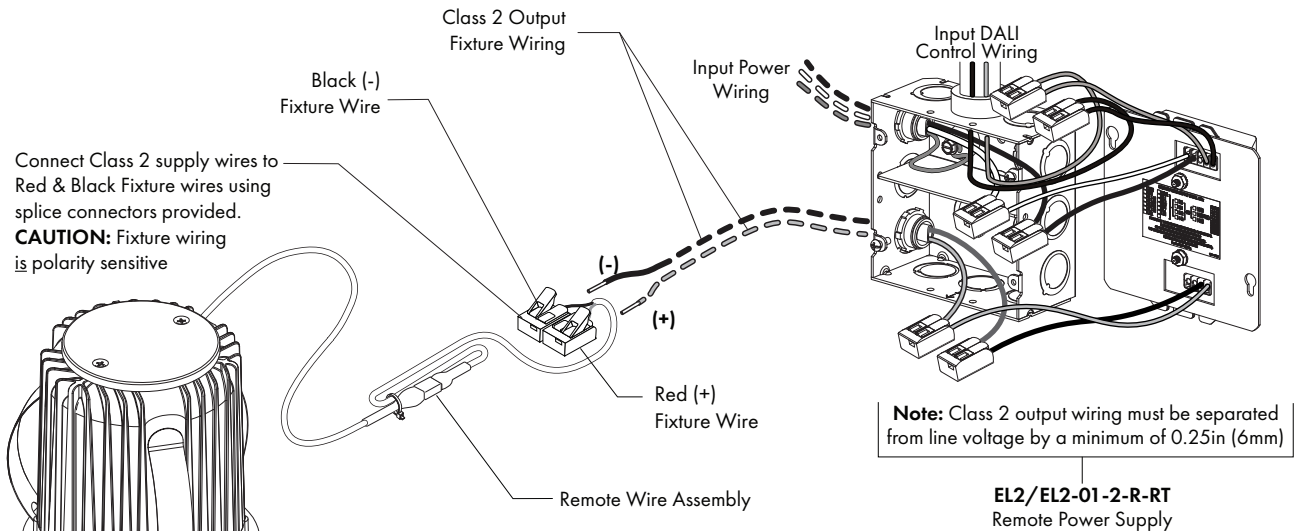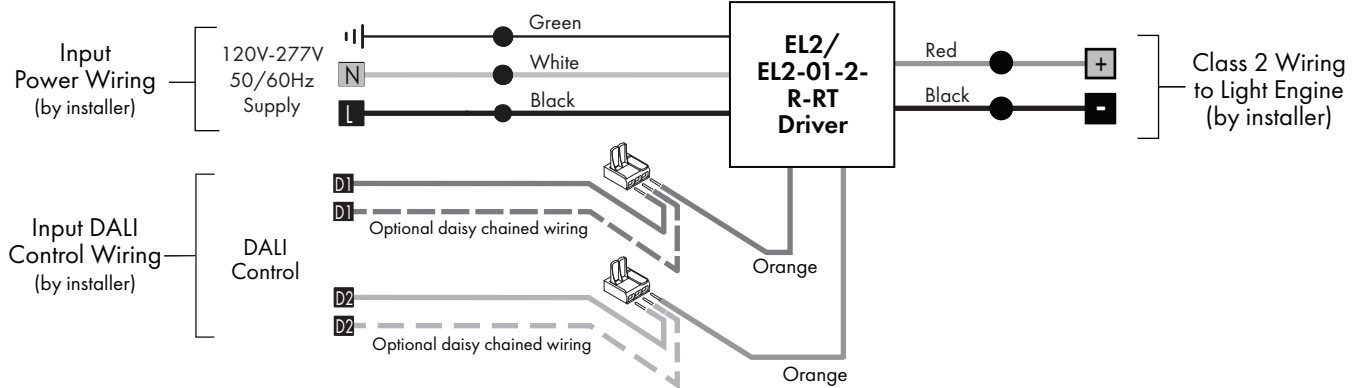## For EL2/EL2-01-2-R-RT Remote Dimming Options

Wiring Connections	1. Verify correct power supply model (see label on cover plate), LED type (see label on fixture), wire length and gauge (see chart below) and input requirements (see label on driver). 2. Install Remote Power Supply away from any heat source and make wiring connections following the Wiring Diagram below. 3. Connect fixture supply wires to Class 2 using Splice Connectors provided. 4. Push all wires and connections completely inside Remote Power Supply junction box and replace cover.

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

Input Power Wiring (by installer)
120V-277V 50/60Hz Supply
Green
White
Black
N
L

EL2/ EL2-01-2-R-RT Driver

Red
Black
+
−
Class 2 Wiring to Light Engine (by installer)

Input DALI Control Wiring (by installer)
DALI Control
D1
D1
Optional daisy chained wiring
D2
D2
Optional daisy chained wiring
Orange
Orange

Class 2 Output Fixture Wiring
Black (-) Fixture Wire
Input Power Wiring
Input DALI Control Wiring

Connect Class 2 supply wires to Red & Black Fixture wires using splice connectors provided.
CAUTION: Fixture wiring is NOT polarity sensitive

(-)
(+)

Red (+) Fixture Wire

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

Remote Wire Assembly

EL2/EL2-01-2-R-RT Remote Power Supply

Light Engine

Maximum REMOTE Driver-to-LED Light Engine Wire Length	
Driver Model	
DIM1/DIM2/PR1/EL1/EL1-01/EL2/EL2-01/LU1/LU2-2-R-RT	**Wire Gauge**
8 ft (2.5 m)	24 AWG (0.2mm^2)
13 ft (4 m)	22 AWG(0.34mm^2)
20 ft (6 m)	20 AWG (0.5 mm^2)
30 ft (9 m)	18 AWG (0.75 m^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)	

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'. For compatible dimmers for use with **EL2** drivers see: www.8lighting.com/resources-downloads.
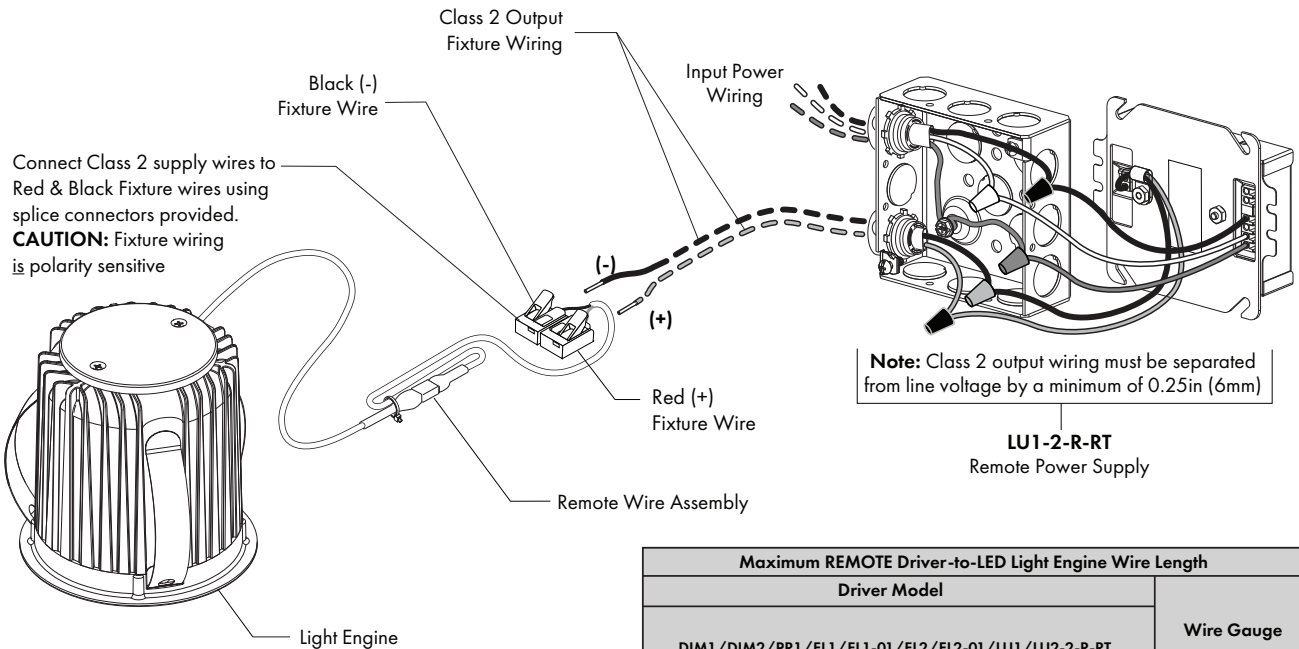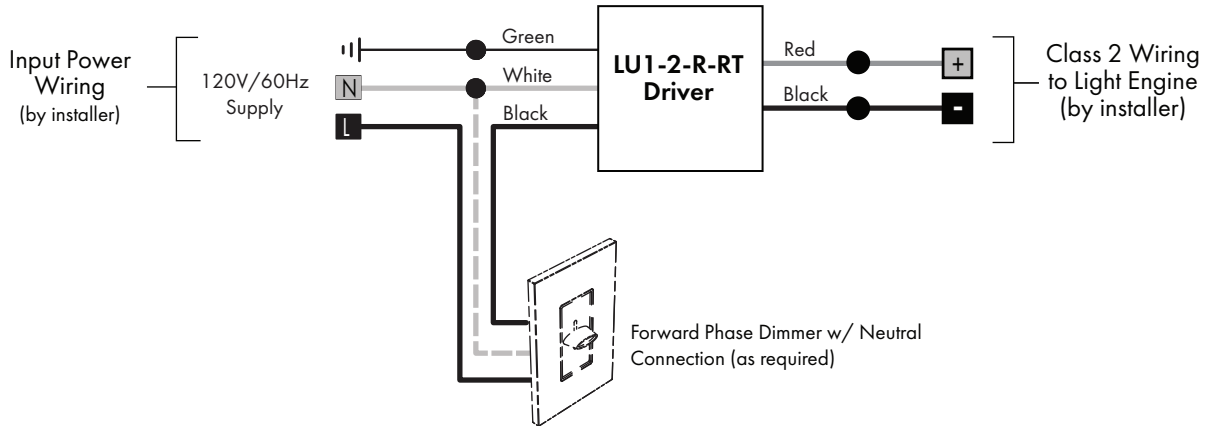
Wiring Connections	1. Verify correct power supply model (see label on cover plate), LED type (see label on fixture), wire length and gauge (see chart below) and input requirements (see label on driver). 2. Install Remote Power Supply away from any heat source and make wiring connections following the Wiring Diagram below. 3. Connect fixture supply wires to Class 2 using Splice Connectors provided. 4. Push all wires and connections completely inside Remote Power Supply junction box and replace cover.

LU1-2-R-RT - REMOTE PHASE CONTROL

Input Power Wiring (by installer)

120V/60Hz Supply

N
L

Green
White
Black

LU1-2-R-RT Driver

Red
Black

+
-

Class 2 Wiring to Light Engine (by installer)

Forward Phase Dimmer w/ Neutral Connection (as required)

Class 2 Output Fixture Wiring

Black (-) Fixture Wire

Input Power Wiring

Connect Class 2 supply wires to Red & Black Fixture wires using splice connectors provided. **CAUTION:** Fixture wiring is underlined polarity sensitive

(-)

(+)

Red (+) Fixture Wire

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

LU1-2-R-RT Remote Power Supply

Remote Wire Assembly

Light Engine

Phase Control Notes:
LU1 drivers are Forward Phase dimmable only.
For compatible dimmers for use with **LU1** drivers, contactLutron LED Center of Excellence at 1.877.346.5338 or LEDs@lutron.com.

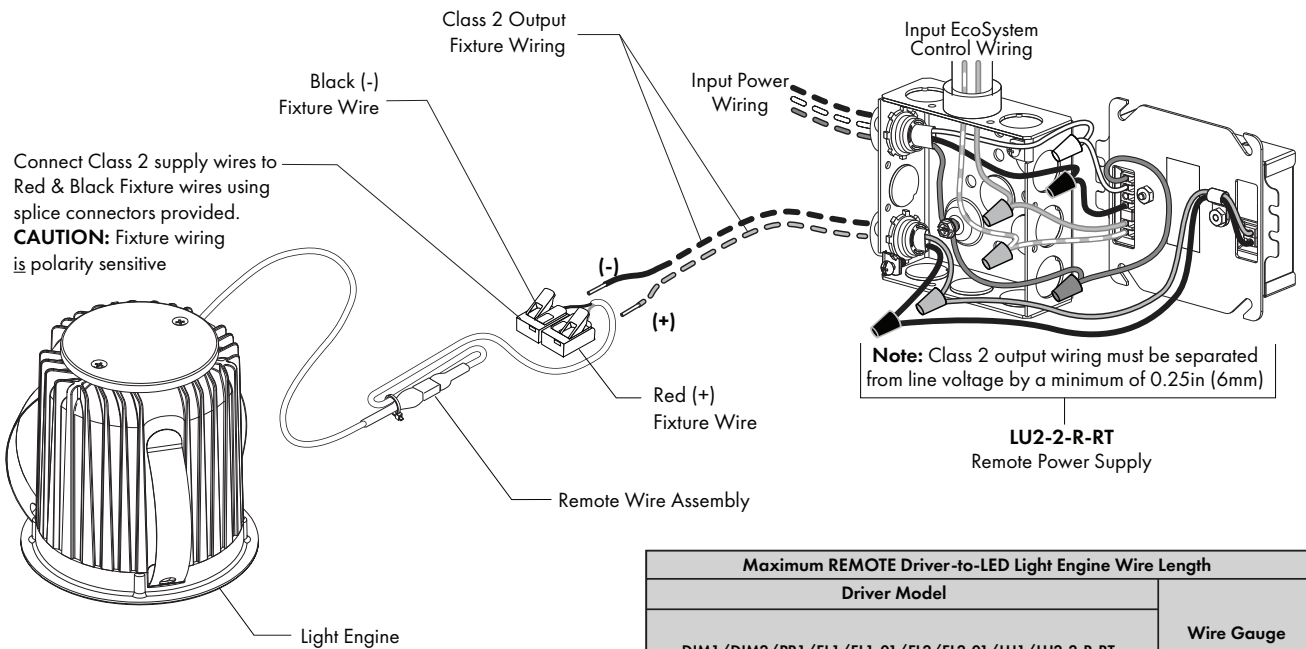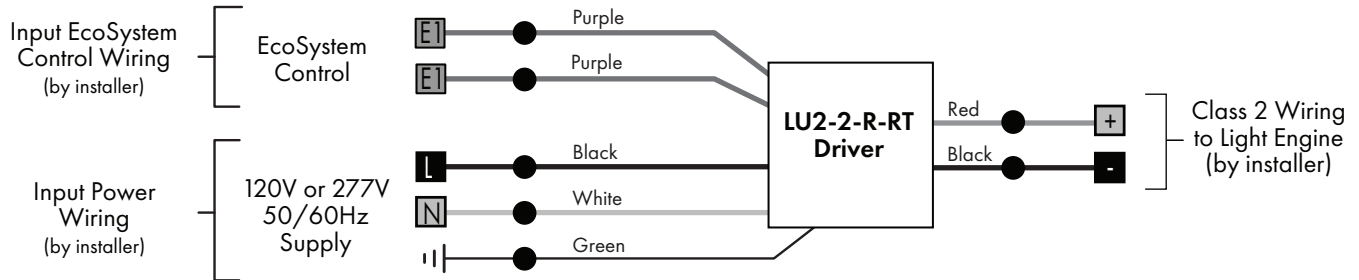| Maximum REMOTE Driver-to-LED Light Engine Wire Length	
Driver Model	
DIM1/DIM2/PR1/EL1/EL1-01/EL2/EL2-01/LU1/LU2-2-R-RT	**Wire Gauge**
8 ft (2.5 m)	24 AWG (0.2mm²)
13 ft (4 m)	22 AWG(0.34mm²)
20 ft (6 m)	20 AWG (0.5 mm²)
30 ft (9 m)	18 AWG (0.75 m²)
35 ft (10.5 m)	16 AWG (1.5 mm²)
50 ft (15 m)	14 AWG (2.5 mm²)
100 ft (30 m)	12 AWG (4.0 mm²)
Wire Type: Stranded Class 2 wire (supplied by others)	

For LU2-2-R-RT Remote Dimming Options

Wiring Connections	1. Verify correct power supply model (see label on cover plate), LED type (see label on fixture), wire length and gauge (see chart below) and input requirements (see label on driver). 2. Install Remote Power Supply away from any heat source and make wiring connections following the Wiring Diagram below. 3. Connect fixture supply wires to Class 2 using Splice Connectors provided. 4. Push all wires and connections completely inside Remote Power Supply junction box and replace cover.

LU2-2-R-RT - REMOTE ECOSYSTEM CONTROL

Input EcoSystem Control Wiring (by installer)

EcoSystem Control

E1 — Purple
E1 — Purple

Input Power Wiring (by installer)

120V or 277V 50/60Hz Supply

L — Black
N — White
⏚ — Green

LU2-2-R-RT Driver

Red — +
Black — -

Class 2 Wiring to Light Engine (by installer)

Class 2 Output Fixture Wiring

Black (-) Fixture Wire

Input Power Wiring

Input EcoSystem Control Wiring

Connect Class 2 supply wires to Red & Black Fixture wires using splice connectors provided.
CAUTION: Fixture wiring is polarity sensitive

(-)

(+)

Red (+) Fixture Wire

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

LU2-2-R-RT Remote Power Supply

Remote Wire Assembly

Light Engine

Lutron EcoSystem Control Notes:
Up to 64 **LU2** 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.

Maximum REMOTE Driver-to-LED Light Engine Wire Length	
Driver Model	
DIM1/DIM2/PR1/EL1/EL1-01/EL2/EL2-01/LU1/LU2-2-R-RT	**Wire Gauge**
8 ft (2.5 m)	24 AWG (0.2mm²)
13 ft (4 m)	22 AWG(0.34mm²)
20 ft (6 m)	20 AWG (0.5 mm²)
30 ft (9 m)	18 AWG (0.75 m²)
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)	

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