CSL | WHISPER MULTIPLES

WHISPER MULTIPLES - WSM-AIC - INSTALLATION INSTRUCTIONS

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!
SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION.

⚠ **WARNING: RISK OF ELECTRIC SHOCK**

- Before installation or servicing DISCONNECT POWER BY SHUTTING OFF THE CIRCUIT breakers both to the outlet box and to its associated wall switch.
- Installation and service of luminaires should be performed by a qualified licensed electrician in accordance with all local and National Electrical Codes.
- Do not install damaged product.
- Verify that supply voltage is correct by comparing it with the luminaire label information.
- All wiring connections should be capped with UL approved wire connectors.

⚠ **WARNING: RISK OF INJURY**

- Allow luminaire to cool before servicing.
- Follow all manufacturer's warning and restrictions for driver type, mounting locations, replacement and recycling.
- Wear safety glasses and gloves when installing, maintaining or servicing.
- Avoid direct eye exposure to the light source while it is on.
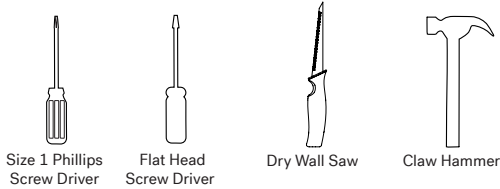
⚠ **RISK OF PRODUCT DAMAGE**

- Never connect components under load.
- Do not touch the yellow surface of the LED as it may damage the light engine.
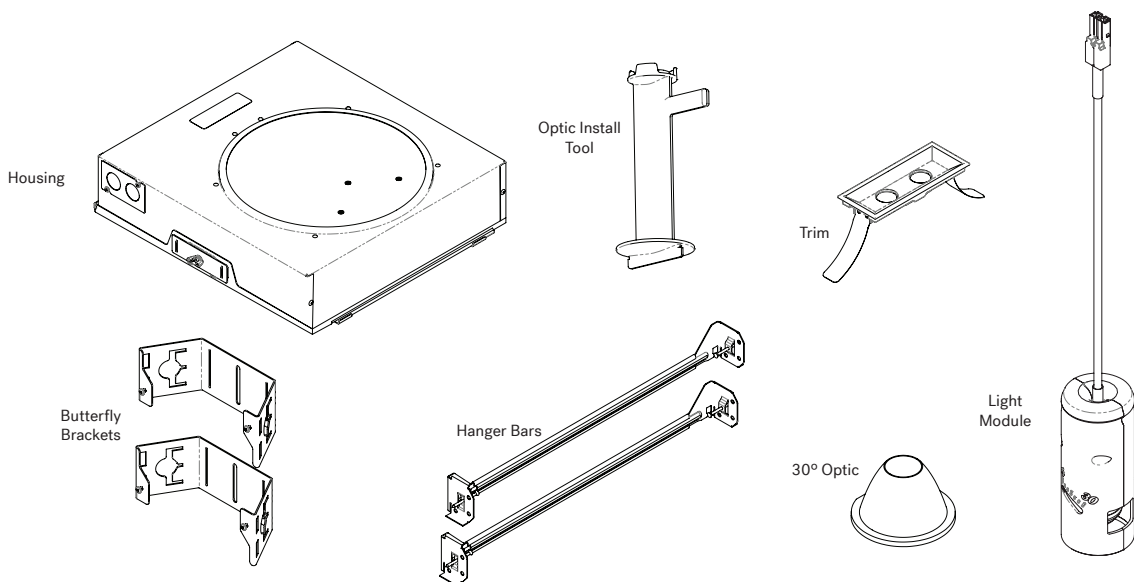
⚠ **WARNING: RISK OF FIRE**

- Do not separate any other wires that may be in the box.
- Do not damage the insulation of existing wiring.
- In regular circumstances the BLACK wire will be the "Hot" lead and the WHITE wire will be the "Neutral" or "Common" lead. A GREEN or BARE COPPER wire is the "Ground." In older buildings, it is always good practice to reconfirm the polarity of the wiring.

TOOLS REQUIRED

Size 1 Phillips Screw Driver

Flat Head Screw Driver

Dry Wall Saw

Claw Hammer

ACCESSORIES REQUIRED

Electrical Wire Nut

WHAT'S IN THE BOX

Housing

Optic Install Tool

Trim

Butterfly Brackets

Hanger Bars

30° Optic

Light Module

FIG-00038 Revised 04/15/24 **1 of 10**

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PREPARATION

Measure Before You Cut
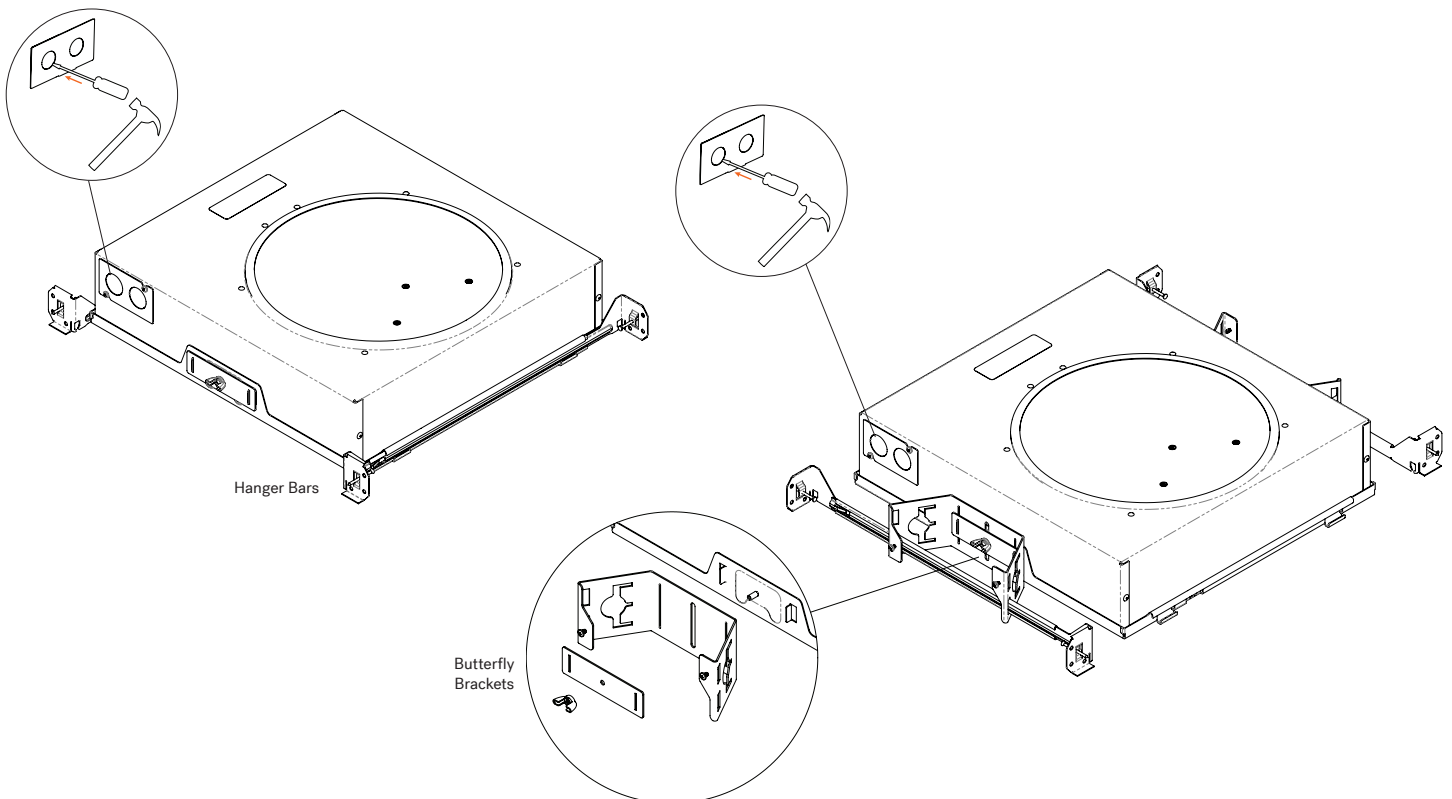Consult the ceiling cutout table below to determine your application ceiling cutout requirements.

HEAD TYPE	FLANGED/WOOD CEILING	TRIMLESS
2	4-5/8 x 1-11/16	4-7/8 x 2
3	6-3/8 x 1-11/16	6-1/2 x 2
4	8-1/8 x 1-11/16	8-5/16 x 2

Determine Housing Mounting Method
- **Standard hanger bars:** Secure the housing to ceiling joists or suspended ceiling frames (T-bars). Install the hanger bars in the frame slots, oriented as shown.
- **Butterfly Brackets:** Secure the housing using C-channel or conduit. To install the brackets, remove the wingnut and lock plate, mount the brackets on the housing, then re-attach the lock plate and wing nut. Adjust the vertical position of the housing by sliding the bracket up or down. Tighten the wingnut to lock the vertical postion.

Remove Knock-Out(s)
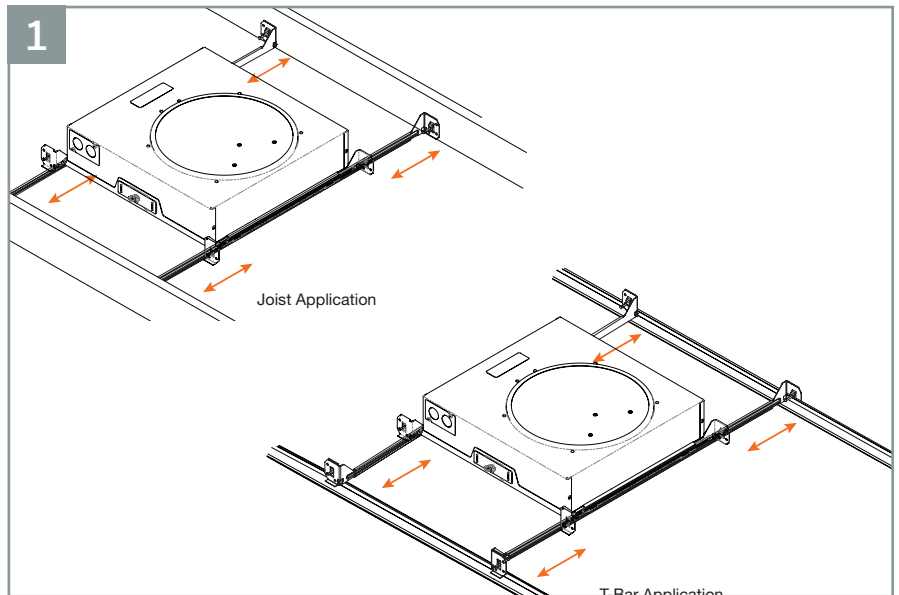Remove knock-out(s) where needed with a flat-head screwdriver and hammer.

Hanger Bars

Butterfly Brackets

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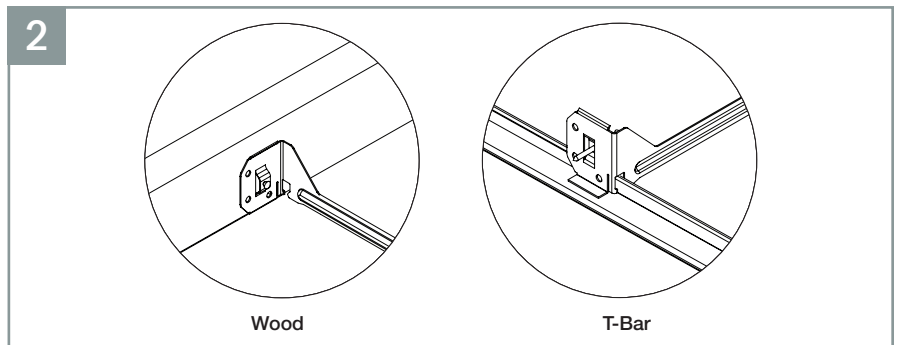
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INSTALLATION

STEP 1 – Hanger Bar Adjustment

- Adjust the hanger bars to fit between joists (For suspended ceiling, remove the required tile).
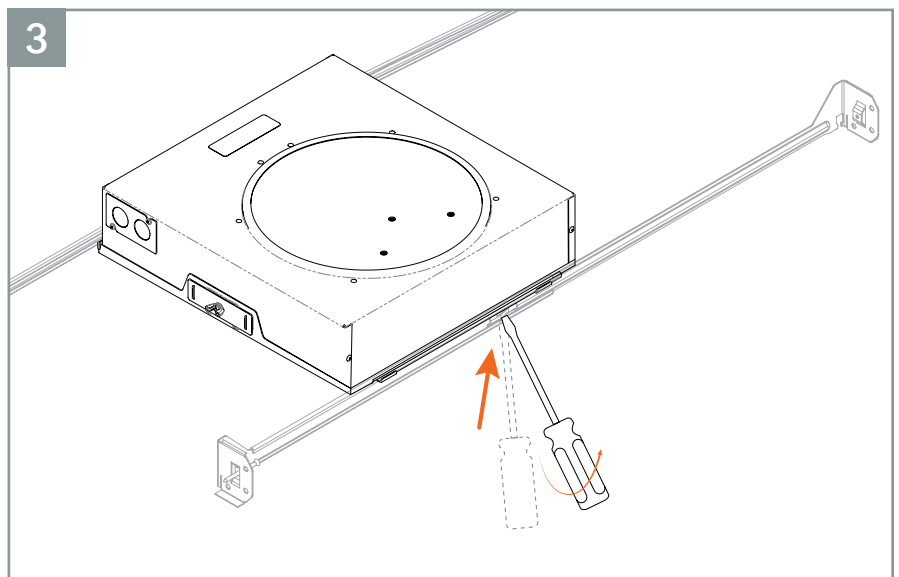

Joist Application

T-Bar Application

STEP 2 – Secure Hanger Bars

- For wood joists, line up the bottom of the hanger bars to the bottom of the joists and nail the ends of the hanger bars to the joists.
- For suspended ceiling (T-Bar), snap the hanger bars in place on the suspended ceiling T-Bar.
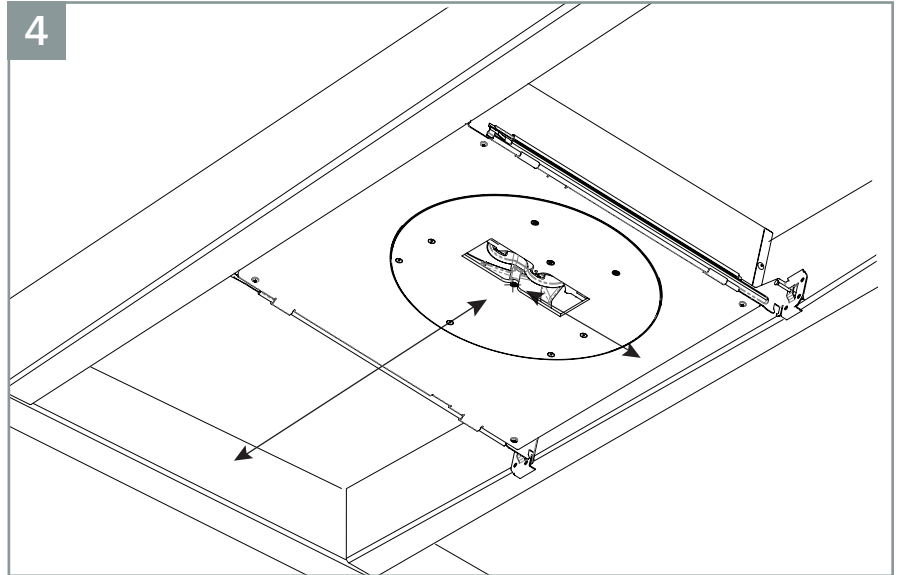

Wood   **T-Bar**

STEP 3 – Secure System

- Slide the housing to the desired position and use a flat head screwdriver to tilt the locking tabs into the hanger bars until system is secure.

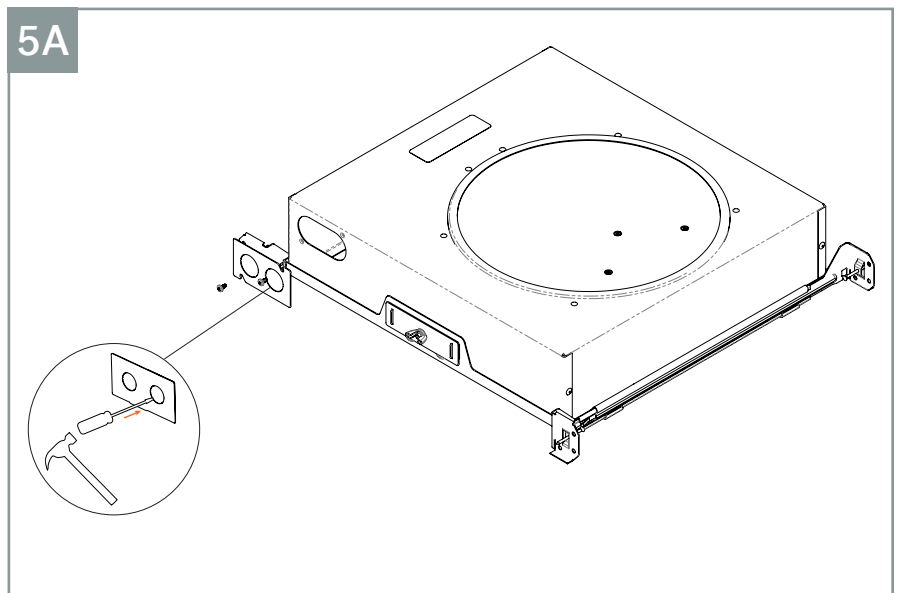FIG-00038 Revised 04/15/24   **3 of 10**

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STEP 4 – Position Measurement

- Measure and mark the location of the pan hole from wood joists/T-Bars.

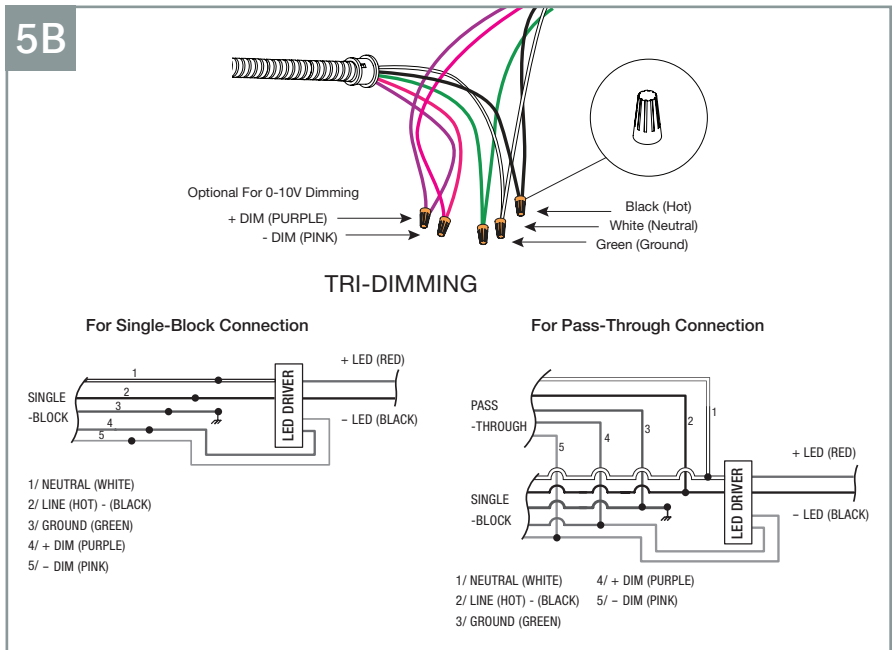## STEP 5A – Electrical Connection

- If not already completed, use a flathead screwdriver and hammer to punch out knock-out(s).
- Remove Access panel using a #1 Phillips screwdriver.
- Using a UL listed conduit connector secure connector to the knock-out opening, passing supply wires through connector.

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STEP 5B – Wiring Diagrams

- Connect supply wires using approved wire nuts to the Driver using the wiring diagrams shown.
- Reattach access panel.

5B

Optional For 0-10V Dimming
+ DIM (PURPLE)
- DIM (PINK)

Black (Hot)
White (Neutral)
Green (Ground)

TRI-DIMMING

For Single-Block Connection

SINGLE-BLOCK
1
2
3
4
5
LED DRIVER
+ LED (RED)
− LED (BLACK)

1/ NEUTRAL (WHITE)
2/ LINE (HOT) - (BLACK)
3/ GROUND (GREEN)
4/ + DIM (PURPLE)
5/ − DIM (PINK)

For Pass-Through Connection

PASS-THROUGH
SINGLE-BLOCK
5 4 3 2 1
LED DRIVER
+ LED (RED)
− LED (BLACK)

1/ NEUTRAL (WHITE)
2/ LINE (HOT) - (BLACK)
3/ GROUND (GREEN)
4/ + DIM (PURPLE)
5/ − DIM (PINK)

For Remote Wiring

⚠ **WARNING**

TWO LUMINAIRES SHALL NOT HAVE MORE THAN 19W (500mA @ 38VDC) SUPPLIED

THREE LUMINAIRES SHALL NOT HAVE MORE THAN 28.5W (750mA @ 38VDC) SUPPLIED

FOUR LUMINAIRES SHALL NOT HAVE MORE THAN 28.5W (750mA @ 38VDC) SUPPLIED
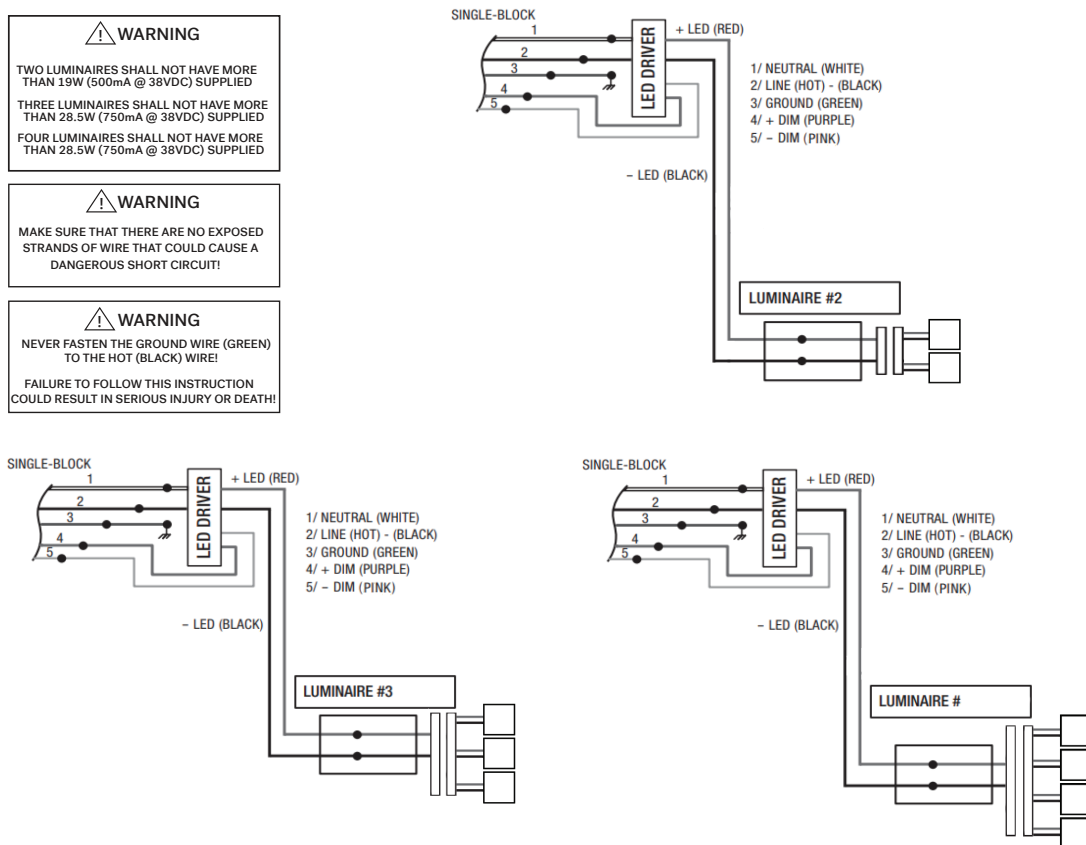
⚠ **WARNING**

MAKE SURE THAT THERE ARE NO EXPOSED STRANDS OF WIRE THAT COULD CAUSE A DANGEROUS SHORT CIRCUIT!

⚠ **WARNING**

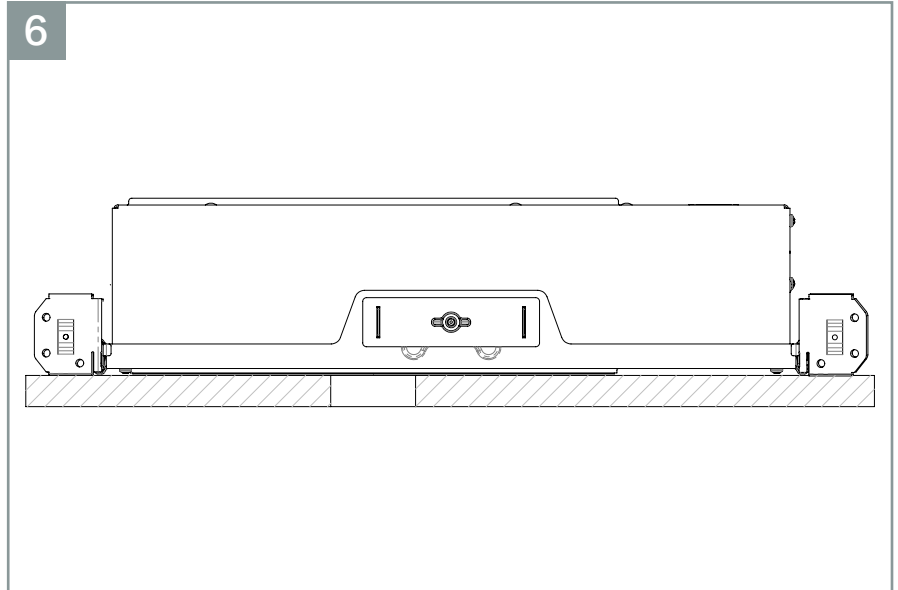NEVER FASTEN THE GROUND WIRE (GREEN) TO THE HOT (BLACK) WIRE!

FAILURE TO FOLLOW THIS INSTRUCTION COULD RESULT IN SERIOUS INJURY OR DEATH!

SINGLE-BLOCK
1
2
3
4
5
LED DRIVER
+ LED (RED)

1/ NEUTRAL (WHITE)
2/ LINE (HOT) - (BLACK)
3/ GROUND (GREEN)
4/ + DIM (PURPLE)
5/ − DIM (PINK)

− LED (BLACK)

LUMINAIRE #2

SINGLE-BLOCK
1
2
3
4
5
LED DRIVER
+ LED (RED)

1/ NEUTRAL (WHITE)
2/ LINE (HOT) - (BLACK)
3/ GROUND (GREEN)
4/ + DIM (PURPLE)
5/ − DIM (PINK)

− LED (BLACK)

LUMINAIRE #3

SINGLE-BLOCK
1
2
3
4
5
LED DRIVER
+ LED (RED)

1/ NEUTRAL (WHITE)
2/ LINE (HOT) - (BLACK)
3/ GROUND (GREEN)
4/ + DIM (PURPLE)
5/ − DIM (PINK)

− LED (BLACK)

LUMINAIRE #

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STEP 6 – Ceiling Cutout & Installation
Ceiling or Tile Installation

- Cut ceiling hole at the pre-measured location using a dry wall saw or speed router to the size indicated within the "Ceiling Cutout Table." on p. 2.
- Attach ceiling or tile ensuring the ceiling hole aligns with the luminaire opening.
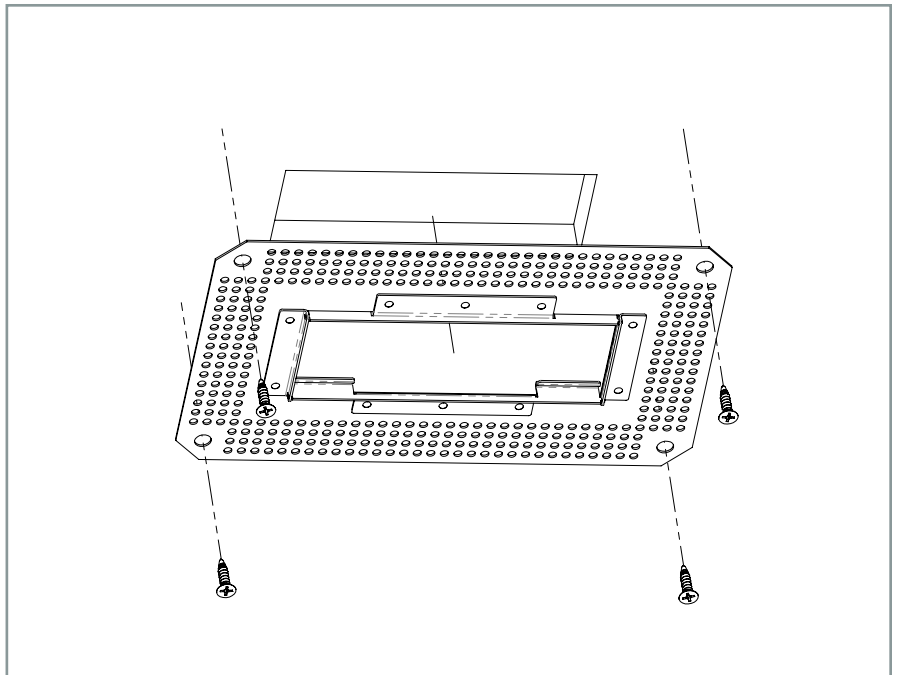
For Trimless

- Ensure to attach the mud guard before mudding (four screws are supplied).
- With joint knife apply mud to the plate. Ensure no mud goes beyond the center rim.
- With a block sander smooth out bumps or uneveness. Repeat until ceiling is smooth.
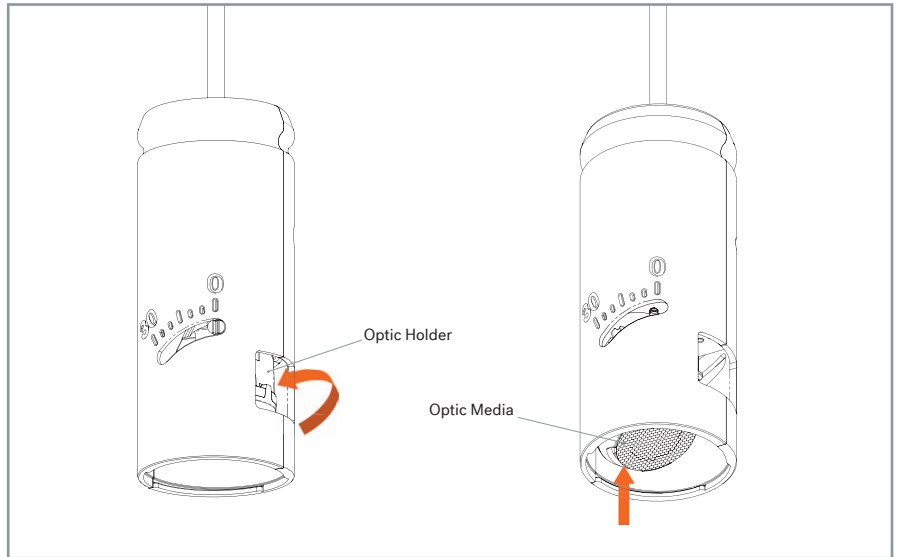- Paint ceiling.

Wood Ceiling Trimless

- Wood ceiling trimless uses same installation method as standard ceiling or tile installation - except with just the reflector - no trim.

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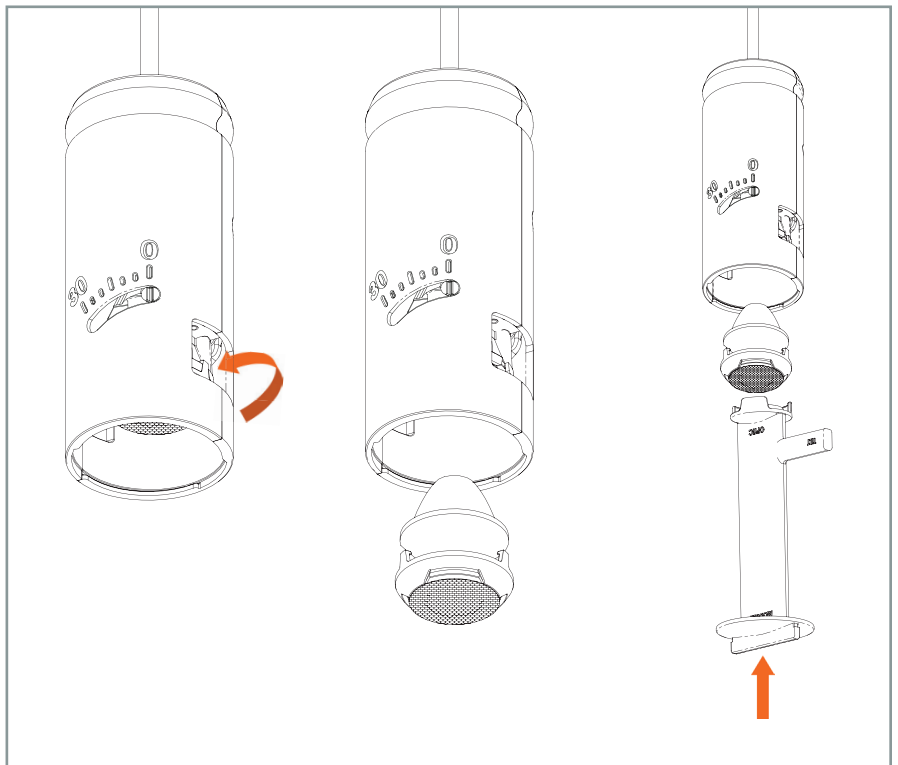
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Adjusting Tilt

- Ensure a Trim is not attached to Light Module.
- To tilt away from 0˚, push the optic holder away from the 0˚ mark.
- To tilt towards 0˚, push up on the optic media toward the 0˚ mark.

Optic Holder

Optic Media

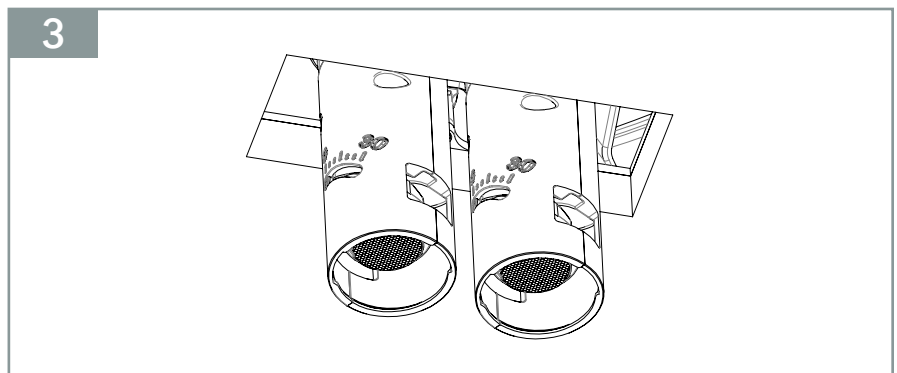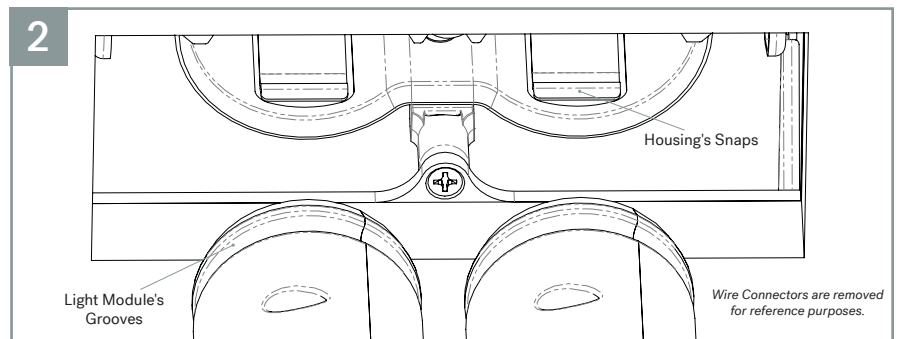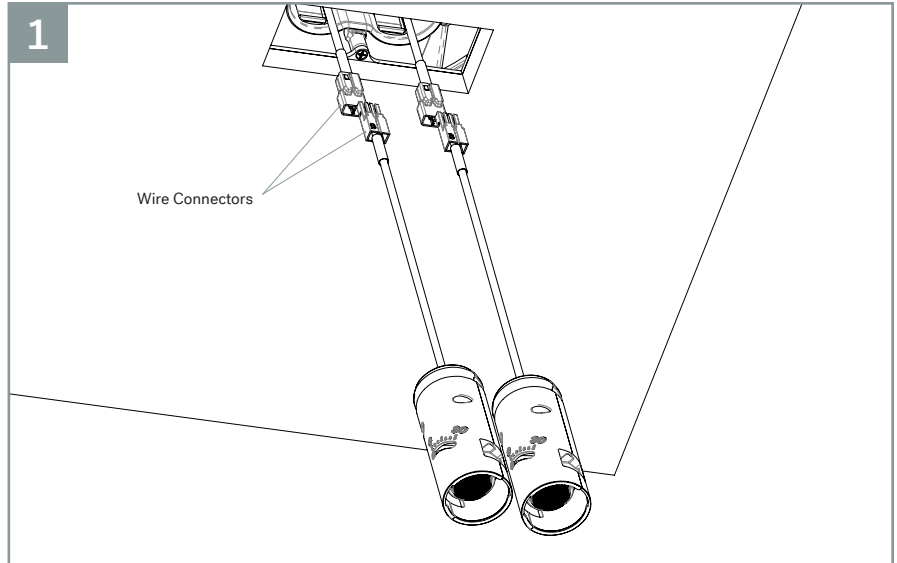## Changing SilentVu™ Optic Lens (Before or After Installation)

- Clip off optic media holder to remove/replace optic.
- When assembling ensure optic is secured to the media and optic install tool.
- Align the 3x tabs of the optic media to the optic holder and clip on the media holder to the optic holder securing the components.

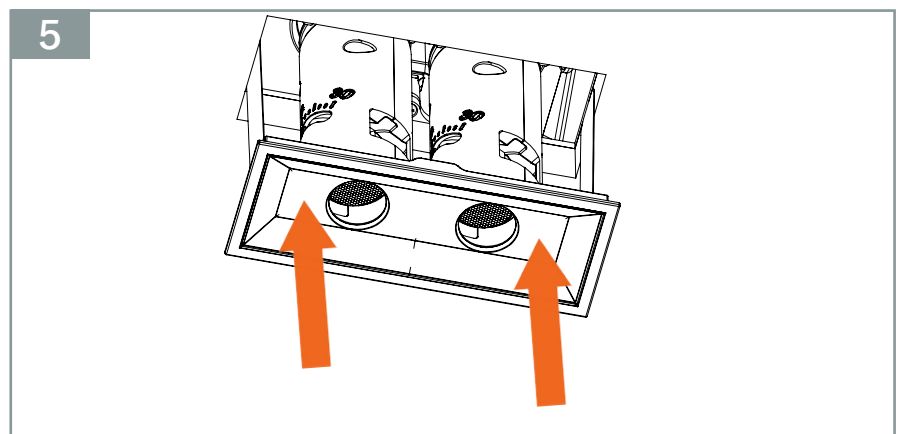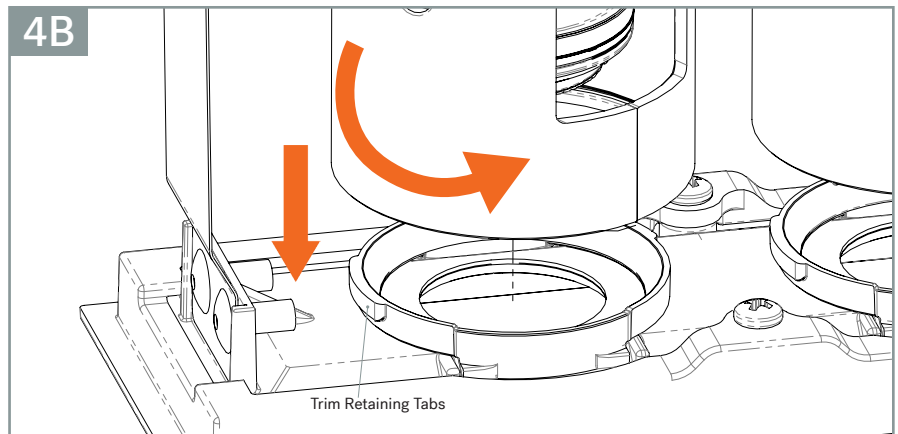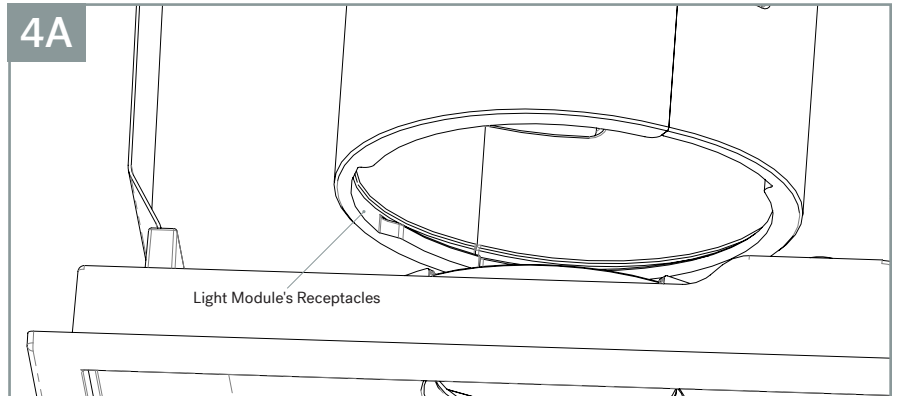FIG-00038 Revised 04/15/24   **7 of 10**

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Module Installation

- Before installing the light module ensure the applicable optic and tilt steps are completed.
- (1) Connect the modules to the wire connectors coming out of the housing.
- (2) Press module into the housing until the Module's Groove lock (3) with housing's snaps.
- (4) Line the Light Module's Receptacles with the Trims Retaining Tabs and twist to lock modules to trim.
- Rotate modules to desired setting.
- (5) Push trim clips inward and insert trim into the housing.

1

Wire Connectors

2

Housing's Snaps

Light Module's Grooves

Wire Connectors are removed for reference purposes.

3

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4A

Light Module's Receptacles

4B

Trim Retaining Tabs

5

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Driver Servicing and Site Review

- Remove the light module and trim.
- Disconnect light modules to make sure wire connector stays between the heatsink and module holder.
- (1) Remove screw and rotate module holder 90° vertically. Driver will come to ceiling opening.
- (2) Rotate drive 90° horizontally.
- (3) Pull the driver out through the ceiling hole
- Reverse the steps to reinstall the driver making sure to:
  - * Place the driver back into the driver holder.
  - * Pulling down the module bracket and screwing into place to lock the holding mechanism.

Driver

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