

## READ AND UNDERSTAND THESE INSTRUCTIONS BEFORE INSTALLING LUMINAIRE

This luminaire is intended for installation in accordance with the National Electrical Code and local regulations. To assure full compliance with local codes and regulations, check with your local electrical inspector before installation. To prevent electric shock, turn off electricity at fuse box before proceeding.

**Retain these instructions for maintenance reference.**

INSTRUCTION SHEET NO.

**IS:C3AICLV**

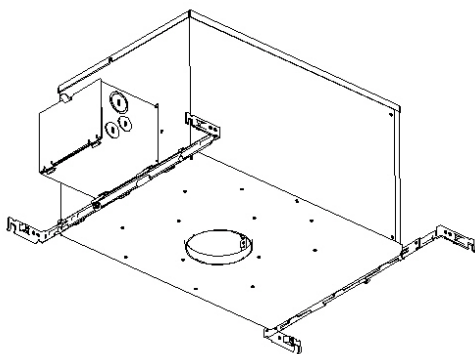
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Page 1 of 4

### INSTALLATION PROCEDURE FOR CALCULITE® EVOLUTION: C3AICLV SERIES RECESSED LOW VOLTAGE FRAME-IN-KITS

**WARNING:** USE ONLY REFLECTOR TRIMS PROVIDED BY LIGHTOLIER. USE OF OTHER MANUFACTURER'S REFLECTOR TRIMS MAY VOID THE UNDERWRITERS LABORATORIES LISTING AND COULD CONSTITUTE A FIRE HAZARD.

MODEL: C3AICLV



#### C3AICLV FRAME-IN INSTALLATION

**NOTE:** To insure proper installation, it is important the mounting frame always be secured to structural ceiling members.

The patented mounting system allows the installer to wire in the frame below the ceiling line.

Take notice to the LOCKING SCREW, which secures the MOUNTING BAR location in the MOUNTING BAR CHANNEL. Locate luminaire along joist and line up bottom edge of HINGED MOUNTING BAR with the bottom of the joist and fasten in place as shown in *Fig. 1* and *Fig. 2*.

**For Suspended ceilings, see page 2.**

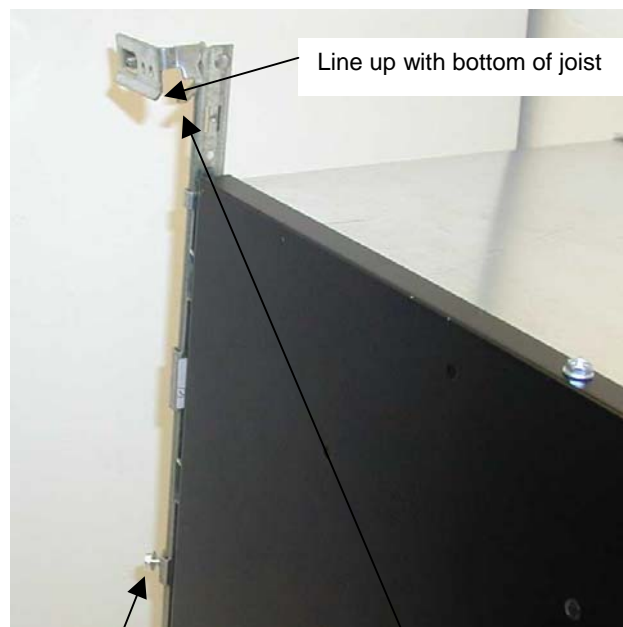
#### FOR JOIST SPACING LESS THAN 16" ON CENTER (DOWN TO 12" ON CENTER).

MOUNTING BAR CHANNELS can be shortened and used as nailing legs in tight spaces. Simply remove INNER BAR from holed CHANNEL, bend CHANNEL at appropriate point and use extra screw to secure it to the joist.

**WIRE-IN** per instructions given on page 3, then **Swing-up and secure.**

#### SWING-UP

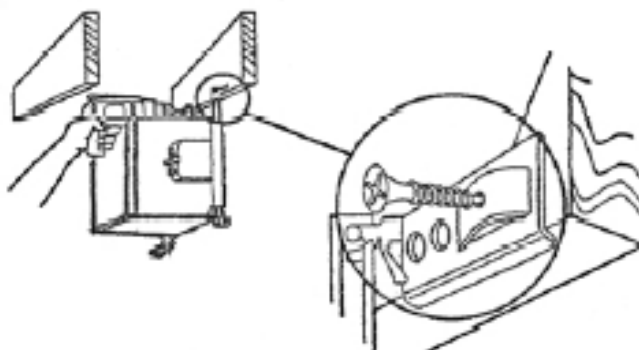
Extend MOUNTING BAR to reach opposite joist and fasten in place. Adjust luminaire to desired position along MOUNTING BAR and lock in place using LOCKING SCREW.



Line up with bottom of joist

LOCKING  
SCREW

HINGED MOUNTING BAR



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**LIGHTOLIER A GENLYTE COMPANY**  
631 Airport Road, Fall River, MA 02720

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**C3AICLV FRAME-IN INSTALLATION**

**NOTE:** To insure proper installation, it is important the mounting frame always be secured to structural ceiling members.

*FOR SUSPENDED CEILINGS:*

- Rotate HINGED BAR ENDS to position shown (FIG. 4) and fully extend bars.
- Crimp bottom of edge of CHANNEL to prevent rotation of HINGED BAR ENDS (FIG.3).
- Position notched area of MOUNTING BARS onto T-BAR and lock by bending TAB underneath T-BAR BEAD as shown (FIG. 4).

Adjust luminaire to desired position along MOUNTING BAR and lock in place using LOCKING SCREW.

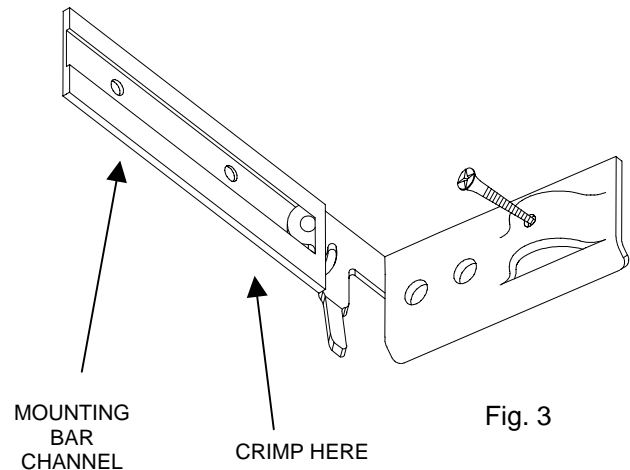


Fig. 3

**WIRE-IN** per instructions given on page 3.

**AIRSEAL INSTALLATION (optional)**

Install a bead of silicon caulking compound between the ceiling opening and edge of HOUSING. Housings are tested in accordance with ASTM E 283(max 2cfm@75pa) and comply with WSEC&MEC when installed as instructed.

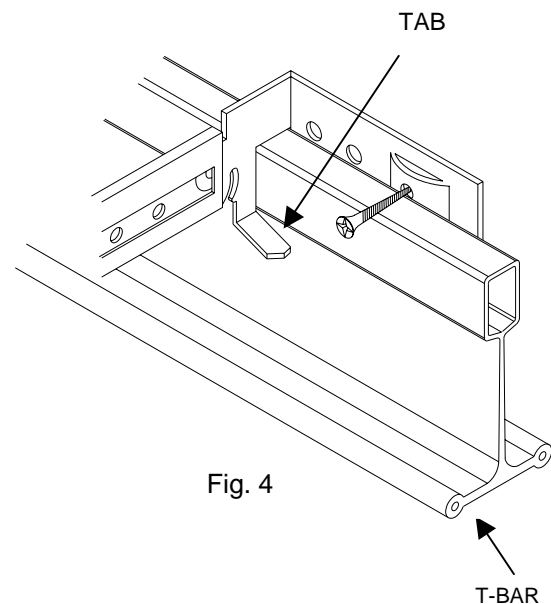


Fig. 4

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Page 3 of 4

### INSTALLATION PROCEDURE FOR CALCULITE® EVOLUTION: C3AICLV SERIES RECESSED LOW VOLTAGE FRAME-IN-KITS

**Note:** Low Voltage luminaires should be dimmed only with appropriate LV, VA or QE(electronic specific) dimmers.

#### WIRING INSTRUCTIONS FOR C3AICLV. Can be wired for 120v ONLY.

**Note:** Magnetic low voltage luminaires can produce an audible sound, which may be objectionable in acoustically critical areas. Consider electronic frames for these applications.

Open J-BOX DOOR (opposite the transformer). Using wirenuts (local hardware item) make the appropriate connections. For 120v, connect the blue lead with the single connector to the black lead with the single connector. For 277v, connect the blue lead with the single connector to the red lead with the single connector. Then connect to the supply leads: bare wire to the supply ground, white wire to the common supply lead, and black wire to the "hot" supply lead. Place all electrical connections into the J-BOX and close the J-BOX DOOR.

**Note:** Low voltage luminaires should be dimmed only with special dimmers specifically designed for that purpose.

#### WIRING INSTRUCTIONS FOR C3AICLVE1. Can be wired for 120v ONLY.

Open J-BOX DOOR (opposite the transformer). Using wirenuts (local hardware item) make the appropriate connections. Connect to the supply leads: bare wire to the supply ground, white wire to the common supply lead, and black wire to the "hot" supply lead. Place all electrical connections into the J-BOX and close the J-BOX DOOR.

**Note:** Low voltage luminaires should be dimmed only with special dimmers specifically designed for that purpose.

If not already complete, finish securing frame to ceiling structure. Close in ceiling as required. Unless the final TRIM install will be flush-mounted; Use a 3-1/2" hole-saw and cut opening in ceiling for PLASTER LIP. For flush-mount, use a 3-5/8" hole-saw.

**See IS:C3MR sheet for proper installation of LIGHTOLIER TRIMS (provided with trim).**

**See IS:C3MRFT sheet for installation of flush mounting trims (provided with flushmount).**

Prior to installing your LIGHTOLIER TRIM, the horizontal rotation can be preset within the luminaire. Note the BEAM CENTERING NOTCH Fig. 1 allows the installer to predetermine the direction the lamp will point to illuminate a wall or object of interest (not applicable to downlight trims). Once the notch is aligned with the object of interest, simply tighten the rigid ROTATIONAL BRAKE SCREW until the spring is fully compressed Fig. 2.



Fig. 1

Beam Centering Notch

Rotational brake screw

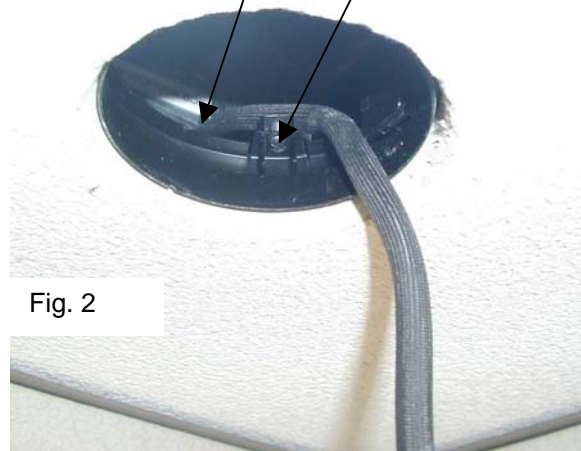


Fig. 2

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**WARNING: (RISK OF FIRE) USE ONLY REPLACEMENT TRANSFORMER OBTAINED FROM LIGHTOLIER**

## TRANSFORMER REPLACEMENT INSTRUCTIONS – RETAIN THESE INSTRUCTIONS

Make sure power to luminaire is off. Remove TRIM FACEPLATE by compressing TORSION SPRING. *Fig. 1* Remove TRIM BODY by disengaging the two SECURING CLIPS with a flat-head screwdriver, and pulling the trim down out of the ceiling *Fig. 2* & 3. Disconnect the socket from the back of the lamp.

Remove WINGNUT on HINGED DOOR labeled TRANSFORMER BOX *Fig. 4*. For easier viewing, rotate spin ring so opening faces the door as shown in *Fig. 4*. Swing HINGED DOOR open until TRANSFORMER is visible *Fig. 5*. Push one or two SPRINGS with YELLOW DOT up over the edge of the TRANSFORMER allowing the TRANSFORMER to come free from its location. Remove HAND from aperture opening and allow TRANSFORMER to come out of the opening, Note orientation shown *Fig. 6*. Disconnect wirenuts and quick-connects.

Using Transformer obtained from Lightolier, connect new transformer wiring to existing wiring. Install new transformer in reverse order of removal ensuring wiring is properly located in the box and transformer plate lip is properly seated in the U-CHANNEL and the transformer is secured by the SPRING(s). *Fig. 5*

For access to the POWER SUPPLY BOX or THERMAL PROTECTOR, Remove WINGNUT on HINGED DOOR labeled POWER SUPPLY BOX and swing HINGED DOOR open.

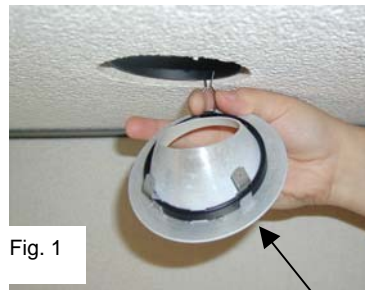


Fig. 1



Fig. 2

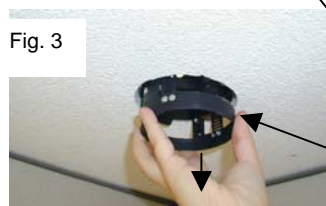


Fig. 3

Securing Clip

Trim Faceplate

Trim Body



Fig. 4

Hinged Door

Wingnut

Spin Ring opening

One of two SPRING(s) with Yellow Dot

Second SPRING(s) with Yellow Dot

Fig. 5

U-Channel

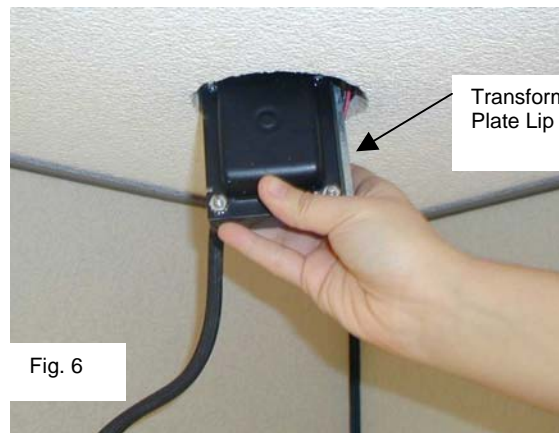


Fig. 6

Transformer Plate Lip

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