



*PANOS 3.5" Square and Round Adjustable – Flanged*

WHEN REPLACING PCB ASSEMBLIES, PLEASE WEAR AN ESD WRIST STRAP AND CONNECT IT TO ELECTRICAL GROUND

**RISK OF FIRE AND ELECTRICAL SHOCK**

Contact, improper installation, or improper servicing MAY RESULT IN DEATH OR SERIOUS INJURY! Fixture must be installed by a qualified electrician only. Fixture is intended for installation in accordance with the National Electrical Code, local and federal code specifications. Disconnect power at electrical panel before servicing. Retain these instructions for maintenance reference.

**ADVERTENCIA: RIESGO DE INCENDIO O IMPACTO ELÉCTRICO**

Conexión, instalación inapropiada o servicio incorrecto PUEDE CAUSAR MUERTE O HERIDAS GRAVES. La luminaria debe ser instalada únicamente por un eléctrico calificado. La luminaria debe instalarse de acuerdo al Norma eléctrica nacional, al igual que especificaciones locales y normas federales. Se debe desconectar la corriente eléctrica antes de realizar la mantención. Conservar estas instrucciones como referencia para futuras mantenciones.

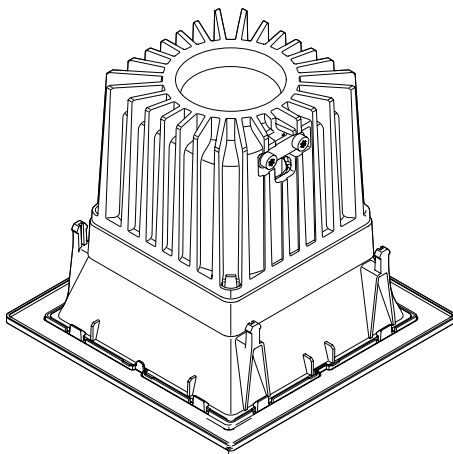
**ATTENTION: RISQUE D'INCENDIE ET D'ELECTROCUTION**

Une installation, un entretien ou un contact physique non conforme pourraient mener à un DANGER DE MORT OU DE BLESSURE GRAVE! L'appareil doit être installé uniquement par un électricien professionnel qualifié. L'installation doit respecter le code électrique national de même que les lois locales et fédérales en vigueur. Veuillez fermer l'alimentation électrique au panneau principal avant tout entretien. Conserver ces instructions pour référence et tout entretien futur.

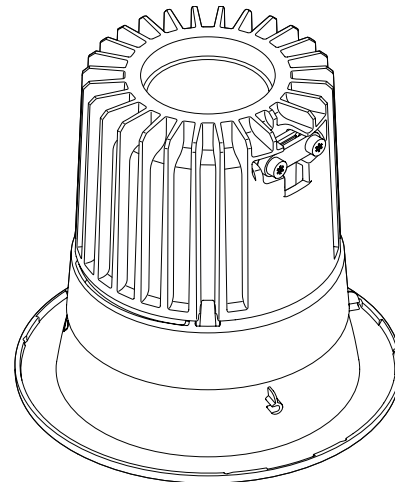
**NOTE**

National or municipal codes must be followed regarding fixture installation and set back of thermal insulating material from luminaire. As a guideline, any insulation material must be held away from the luminaire by a minimum of 3". Fixtures are not designed for direct contact with thermal insulation.

*The following installation instructions relate to the options below*



**3.5" PANOS Adjustable, Flanged, Square**

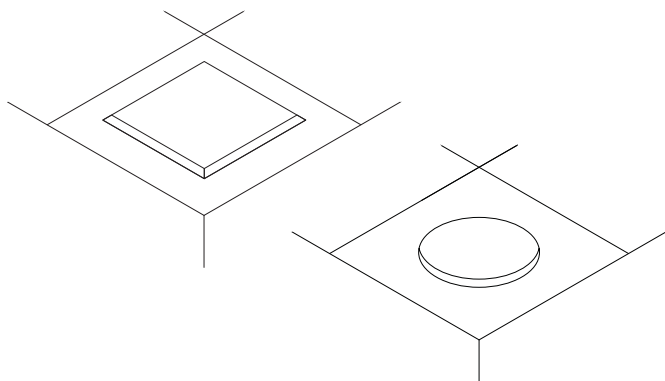


**3.5" PANOS Adjustable, Flanged, Round**

Fixture and driver module are each ordered separately.  
Fixture ships with installation ring. Driver module ships with mounting plate.

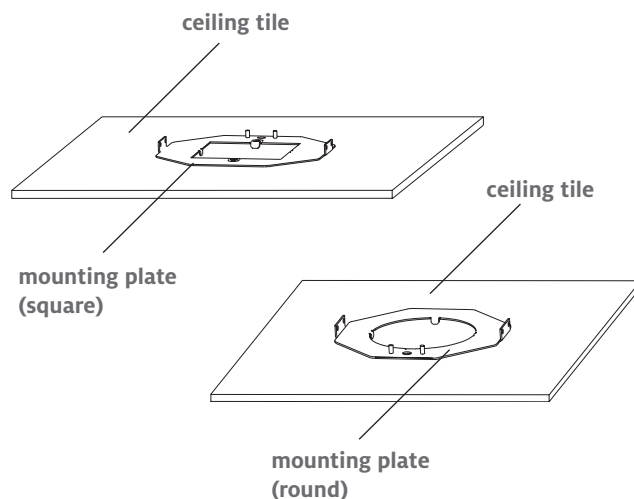
## PANOS 3.5" Square and Round Adjustable – Flanged

### STANDARD INSTALLATION



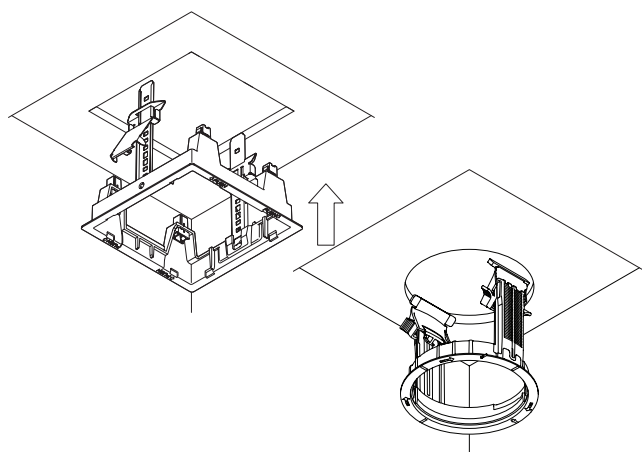
**1 Cut opening in ceiling.** Ensure a minimum clearance of 2" around proposed fixture location within the ceiling before beginning.

SQUARE	ROUND
3-15/16" x 3-15/16"	3-15/16" diameter

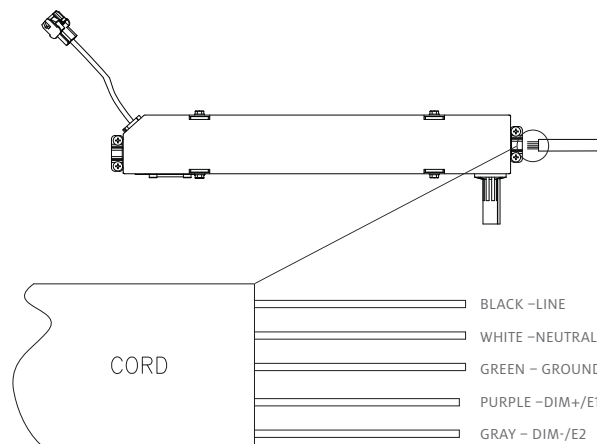


**2 Place mounting plate\*** over ceiling opening, working through adjacent ceiling tile.

\*For standard installation, this step is only required for accessible ceilings.



**3 Install installation ring into ceiling** Fastening springs will flip over, pull down on springs to secure ring to ceiling structure. Adjust mounting brackets so bottom of flange is flush with ceiling line. (1-9/16" ceiling thickness, max.)

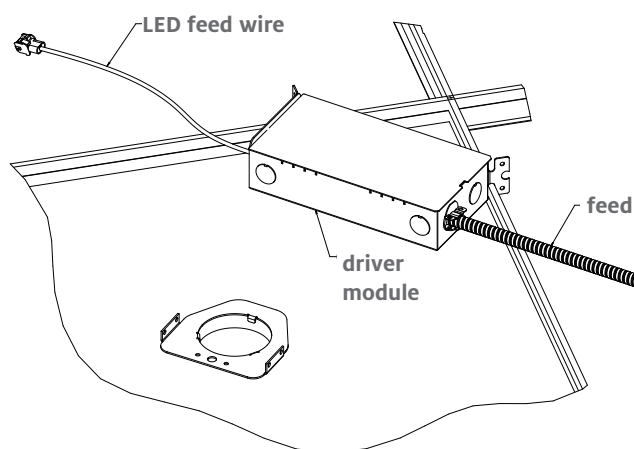


**4 Make electrical connections** as shown. Ground rough-in using the green ground wire. For non-dimming installations, cap off the two control wires and connect the hot, neutral, and ground as normal. For 0-10V dimming applications, connect the DIM+ to the positive, and the DIM- to the negative.

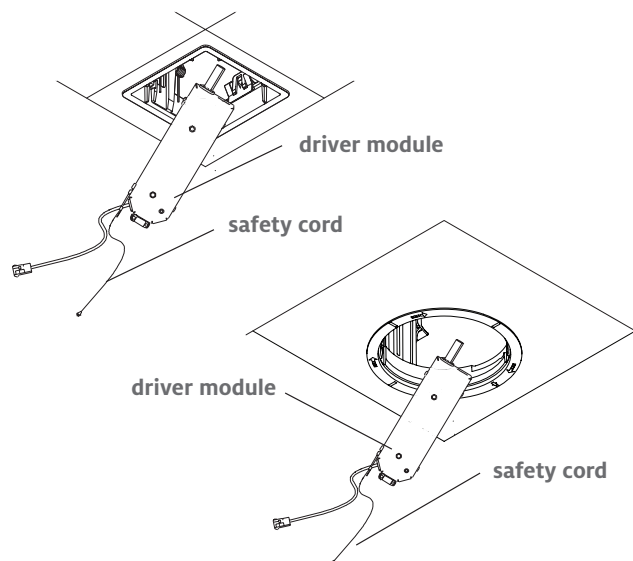
Note: Driver module may vary based on ceiling type.

## PANOS 3.5" Square and Round Adjustable – Flanged

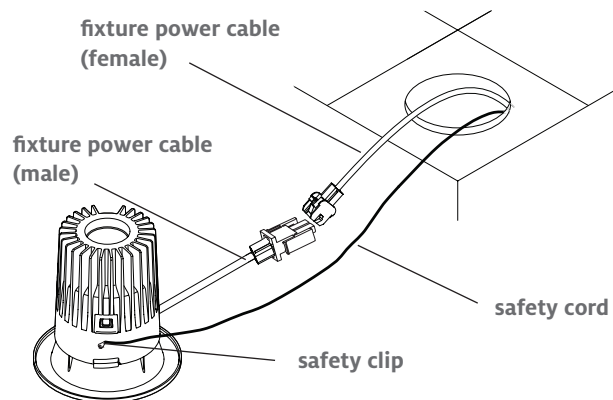
### STANDARD INSTALLATION (continued)



**5 For accessible ceilings** place driver module through opening in adjacent tile. Secure fixture to permanent structure as per local code. Use bend up tabs as required.



**5 For inaccessible ceilings** place driver module through ceiling cutout.



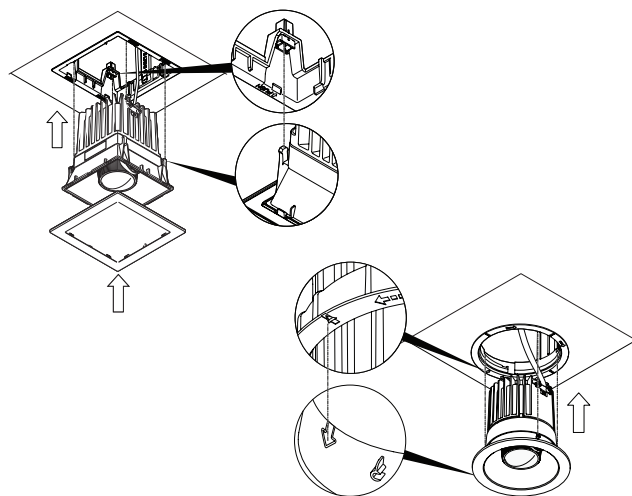
**6 Connect** driver module to fixture as shown.

Red = LED +

Black = LED -

**7 Connect\*** safety cord to fixture with safety clip as shown.

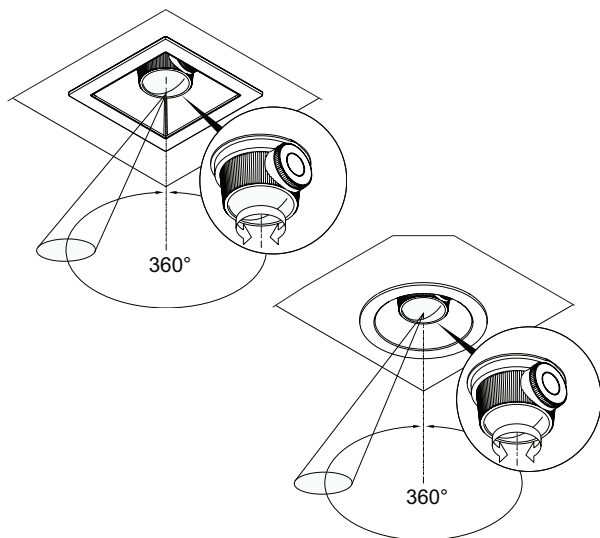
\*This step is only required for inaccessible ceilings.



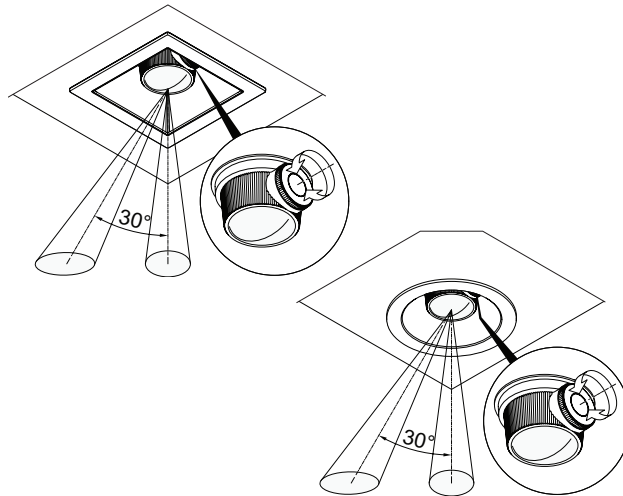
**8 Insert fixture into housing** For square fixtures, press upward firmly until fixture clicks into place, then install flange over edge of fixture. For round fixtures, twist until fixture clicks into place.

## PANOS 3.5" Square and Round Adjustable – Flanged

### STANDARD INSTALLATION (continued)



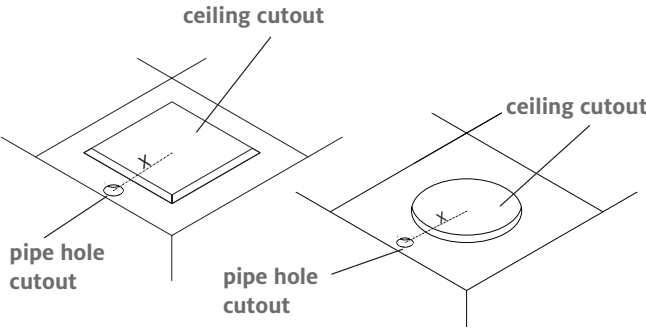
**9 Adjusting the direction of light** can be achieved by rotating the optic. A full 360° of directional adjustment is allowed.



**10 Adjusting the angle of light** Adjusting the angle of light can be achieved with dial on the side of the optic. Angle can be adjusted up to 30° in any direction.

## PANOS 3.5" Square and Round Adjustable – Flanged

### EMERGENCY INSTALLATION

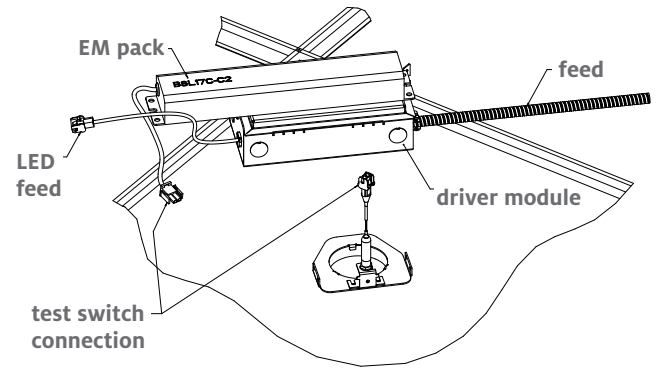


The diagrams illustrate the required ceiling cutouts for emergency installation. The left diagram shows a square ceiling cutout with a circular pipe hole cutout in the center. The right diagram shows a circular ceiling cutout with a circular pipe hole cutout in the center. Both diagrams indicate the distance 'X' between the centers of the two holes.

**1 Cut opening in ceiling and drill hole for EM button.** Refer to page 2 for fixture cutout sizes. Dimensions for pipe hole size and position are below. In above diagrams, X refers to the distance between the centers of the two holes.

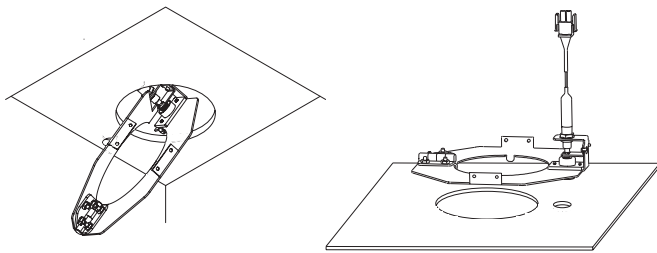
Pipe Hole Diameter:	ACCESSIBLE CEILING	SQUARE AND ROUND (INACCESSIBLE)
	3/8"	2-7/8"
	INACCESSIBLE CEILING	SQUARE (ACCESSIBLE)
	7/16"	3-3/8"
		ROUND (ACCESSIBLE)
		2-11/16"

### ACCESSIBLE CEILINGS

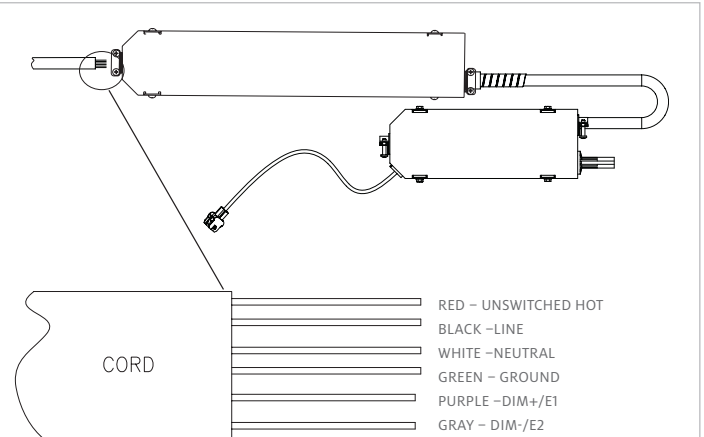


- 2 Place mounting plate** over ceiling opening working through opening in adjacent ceiling tile. Ensure that holes in the plate align properly with ceiling cutout.
- 3 Install driver module in ceiling.**
- 4 Install installation ring into ceiling** as per standard instructions.

### INACCESSIBLE CEILINGS



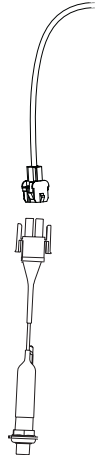
- 5 Place mounting plate** over ceiling opening by folding plate and inserting it through ceiling cutout. Ensure that holes in the plate align properly with ceiling cutout.
- 6 Install installation ring into ceiling** as per standard instructions.



- 7 Make electrical connections** as shown. Ground rough-in using the green ground wire. For non-dimming installations, cap off the two control wires and connect the hot, neutral, and ground as normal. For 0-10V dimming applications, connect the DIM+ to the positive, and the DIM- to the negative. For EM installation, attach the switched hot to the orange line in the whip.
- Note: Driver module may vary based on ceiling type.

## PANOS 3.5" Square and Round Adjustable – Flanged

### EMERGENCY INSTALLATION (Continued)

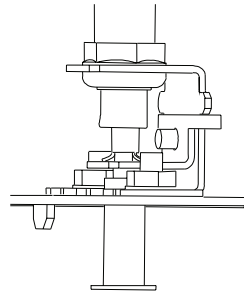


**8 For inaccessible ceilings**, insert driver module into ceiling and connect driver module to fixture as per standard instructions.

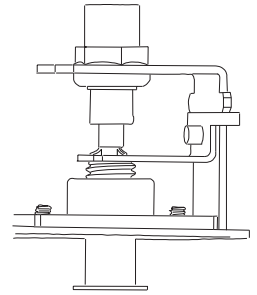
**9 Connect** driver module to test switch as shown above.

Purple = +

Brown = -



accessible ceilings



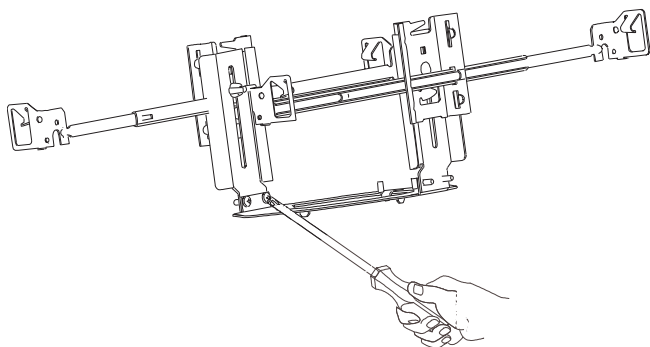
inaccessible ceilings

**10 Install fixture into ceiling** as per standard instructions.

**11 Install pipe hole cover** into installation frame through ceiling cutout. The pipe hole cover will be held in place by a bracket that slides into place.

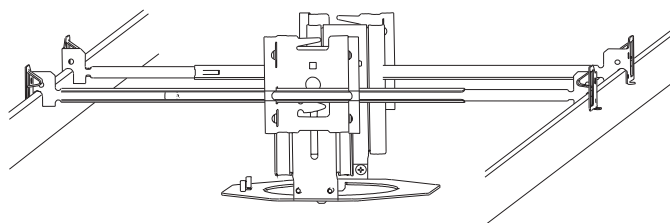
## PANOS 3.5" Square and Round Adjustable – Flanged

### HANGER BAR INSTALLATION (Optional)



- 1 Unpack hanger bar assembly.**
- 2 Cut opening in ceiling** using dimensions on page 2.
- 3 Attach mounting plate to brackets** Using a 8-32 self tapping screw (provided by Zumtobel).

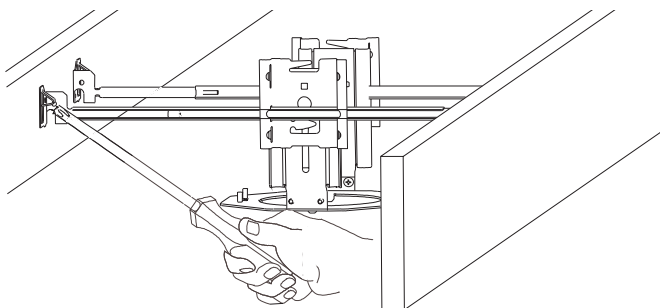
#### ACCESSIBLE CEILINGS



- 4 Remove ceiling tile** adjacent to the ceiling cutout.
- 5 Install hanger bar** onto ceiling grid, working through the opening in the adjacent tile. Hanger bar length can be adjusted based on ceiling type. Secure fixture to permanent structure per local code. Construction wire may be looped through holes provided.
- 6 Replace adjacent ceiling tile** and proceed with standard installation instructions.

#### INACCESSIBLE CEILINGS

Note: Hanger bar may only be installed prior to sheet rock installation.



- 7 Bend tabs** on hanger bar ends until they are able to lay flush against stud.
- 8 Secure hanger bar** onto stud per local code. Hammer in tabs on hanger bars to secure to wood or screw through holes in hanger bar with 3/16" lag screw.
- 9 Installation of fixture** as per standard instructions may continue after sheet rock has been installed. Bracket height may need to be adjusted to ensure plate is flush with sheet rock.

## PANOS 3.5" Square and Round Adjustable – Flanged

### MAINTENANCE

#### Turn off power first!

##### RELAMPING

Contact Zumtobel at 1-800-448-4131 for replacement LED module. Please provide the original fixture description per the label inside the fixture. Once replacement LED module has been received, follow these steps.

##### CLEANING

Wipe with soft lint-free cloth. Do not use glass cleaner or other solvents.

##### ACCESS TO DRIVER

**For Accessible Ceilings:** Remove adjacent ceiling tile to access junction box and driver. The driver is mounted on junction box cover with internal wiring.

**For Inaccessible Ceilings:** After trim removal continue pulling trim to access driver box housing and guide through ceiling opening. Remove cover on enclosure to access driver and wiring.

**1 Please wear clean cotton gloves** and electrostatic discharge protection. At the minimum, an ESD wrist strap should be worn and properly grounded.

**2 Turn power off.**

**3 For square fixtures.** Remove flange by gently prying off. Push upward gently on trim to release then pull out.

**4 Disconnect LED** wire at connector by gently pushing down on connector side clips then pulling apart.

**5 Remove LED Board:**

*Round Versions:*

Gently twist reflector CCW and remove from trim assembly. Using a thin blade screwdriver (or similar) gently pry back tabs on lens housing and remove from heatsink. Unscrew the '2' Torx screws and remove the LED board/board holder.

*Square Versions:*

Reflector snaps onto heatsink assembly. To remove, gently grab reflector and pry apart from heatsink assembly. Using a thin blade screwdriver (or similar) gently pry back tab on lens housing and remove from heatsink. Unscrew the '2' Torx screws and remove the LED board/board holder.

**6 Using a scraper** (putty knife) remove the old thermal film from casting and wipe clean with a clean cloth.

**7 Remove transparent film protection** from both sides of the new thermal film with your fingers.

**8 Place the new thermal film** on bottom of new LED board and align LED board in holder.

**9 Align the mounting holes** in LED board holder to the holes in the aluminum casted heatsink.

**10 Using** the 3mm Torx screws, and the screwdriver which has a blade length of 6" long, install the screws into holes on the LED board holder.

**11 Reverse Procedure to reinstall fixture.**

**12 Turn on the power.**

**13 For disposal,** please send the old LED module back to Zumtobel using the ESD bag provided.