



PANOS 2.25" Square and Round Adjustable – Flangeless

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.

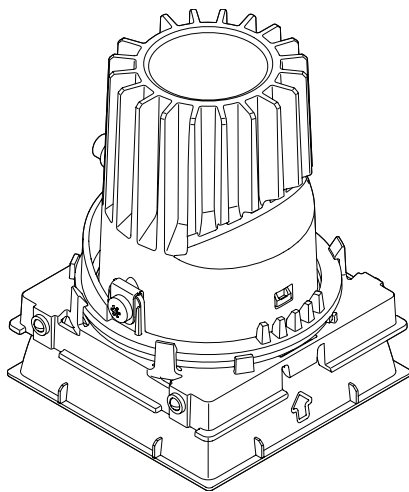
**ATTENTION: RISQUE D'INCENDIE ET D'ELECTROCUTION**

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.

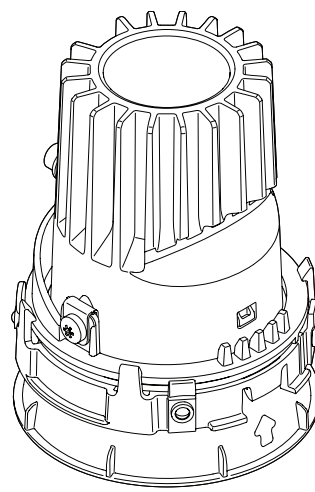
**NOTE**

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



2.25" PANOS Adjustable, Flangeless, Square

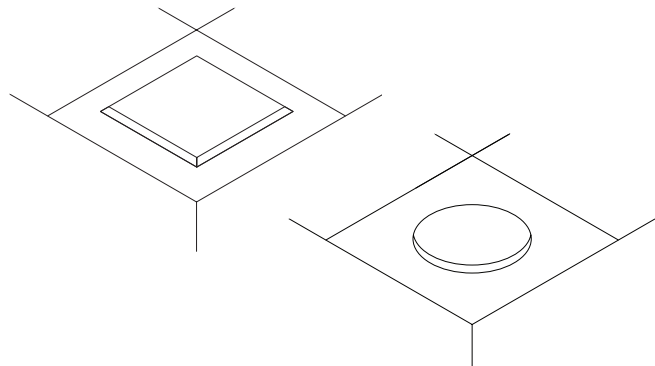


2.25" PANOS Adjustable, Flangeless, Round

Fixture, driver module and installation Ring are each ordered separately.  
Driver module ships with installation plate.

## PANOS 2.25" Square and Round Adjustable – Flangeless

### STANDARD INSTALLATION



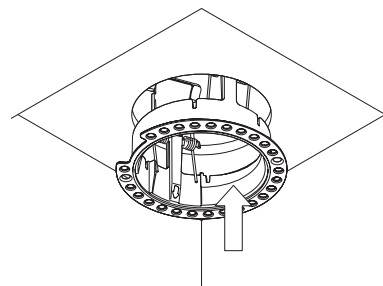
**1 Cut opening in ceiling.** Ensure a minimum clearance of 2" around proposed fixture location within the ceiling before beginning.

SQUARE

2-11/16" x 2-11/16"

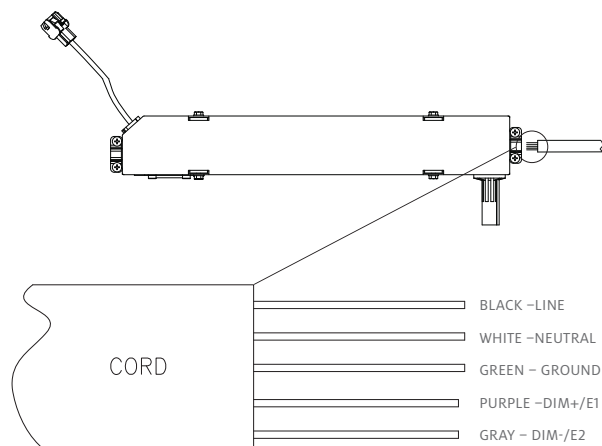
ROUND

2-11/16" diameter

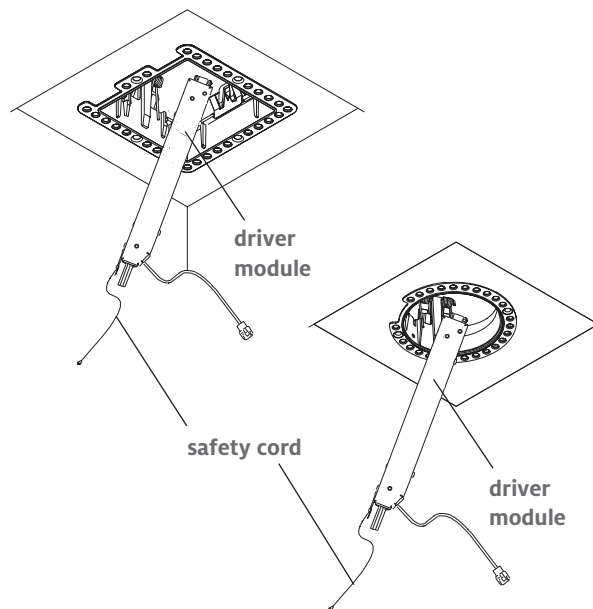


**2 Install installation ring into ceiling.** Fastening springs will fold down, pull down on springs to secure ring to ceiling structure. Adjust mounting brackets so bottom of flange is flush with ceiling line. (1" ceiling thickness, max.)

**3 Apply fiberglass mesh tape** or equivalent (by others) and use joint compound to fill in gaps. When joint compound dries, sand down to make even with flange. Interior of mud ring must be free of drywall compound, paint or any other foreign matter. Clearance to the lower reflector assembly is tight and the presence of foreign matter will not allow proper installation.



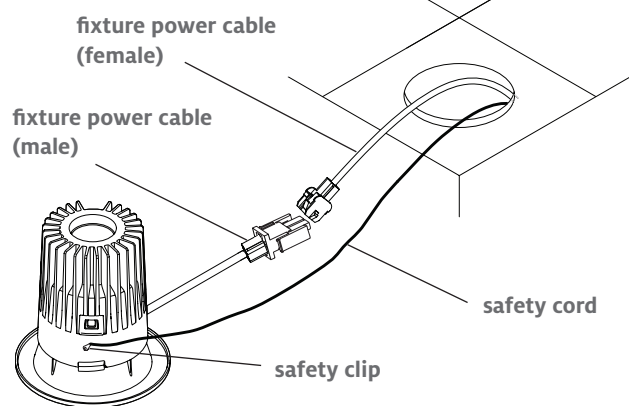
**4 Make electrical connections** as shown. Ground rough-in using the green ground wire. For non-dimming installations, cap off the two control wires and connect the hot, neutral, and ground as normal. For 0-10V dimming applications, connect the DIM+ wire to the positive, and the DIM- wire to the negative.



**5 Place Driver Module** through ceiling cutout.

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### STANDARD INSTALLATION (continued)

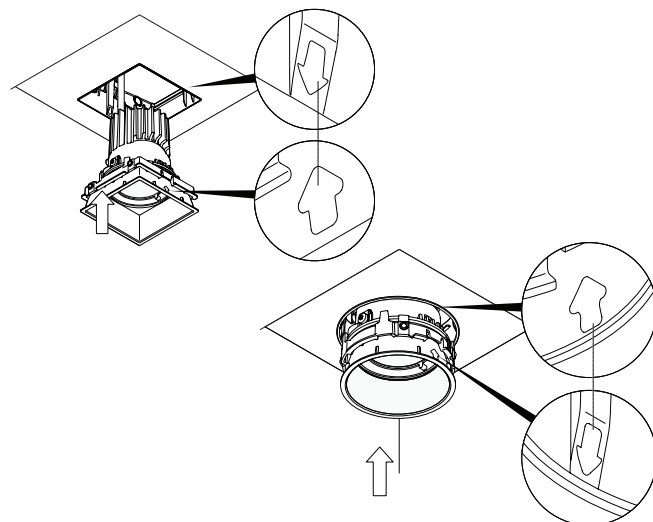


**6 Connect** driver module to fixture as shown.

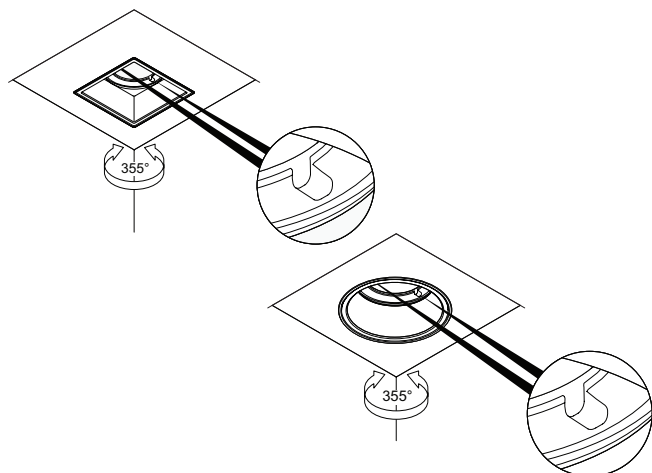
Red = LED +

Black = LED –

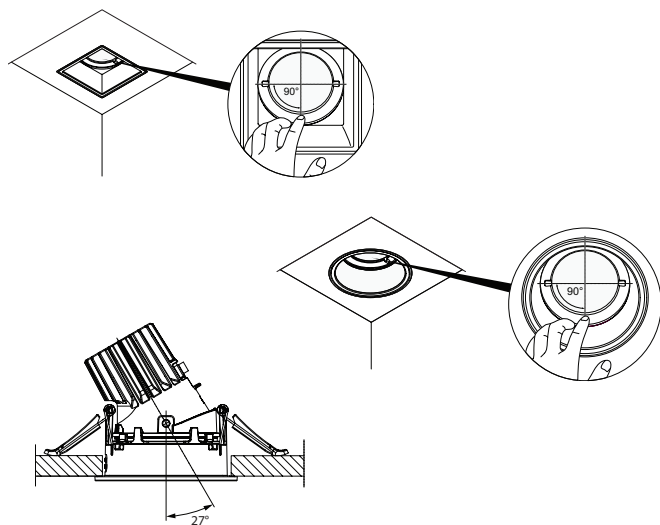
**7 Connect\*** safety cord to fixture with safety clip as shown.



**8 Insert fixture into housing** pressing upward firmly until fixture clicks into place.



**9 Adjusting the direction of light** can be achieved by using the notch on the outer edge of the optic to rotate. 355° of directional adjustment is allowed.

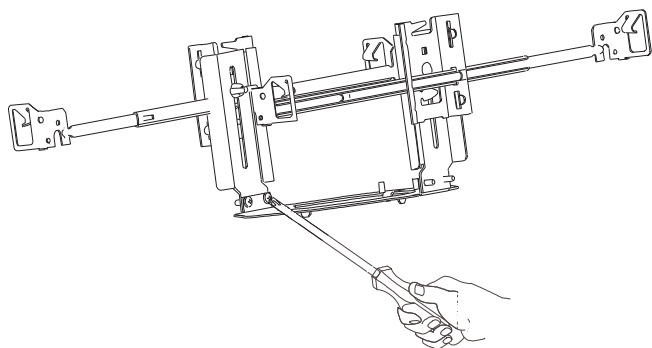


**10 Adjusting the angle of light** can be achieved by pushing on the optic. Angle can be adjusted up to 27°.

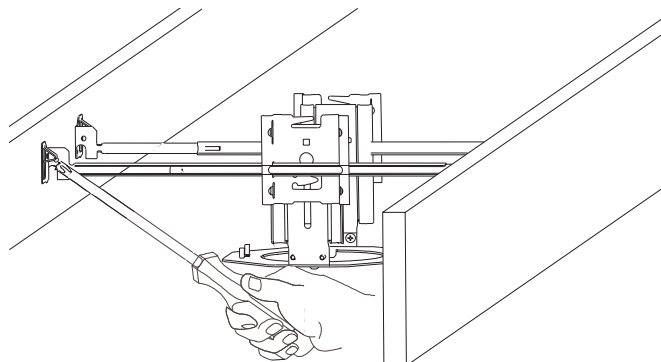
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### HANGER BAR INSTALLATION (Optional)

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



- 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).



- 4 Bend tabs** on hanger bar ends until they are able to lay flush against stud.
- 5 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.
- 6 Installation of fixture** as per standard instructions may continue after sheetrock has been installed. Bracket height may need to be adjusted to ensure plate is flush with sheet rock.

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### 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

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

**4 Remove LED Board.** Remove reflector by pushing in tabs on either side of rotation ring. Push in tabs on either side of heatsink and remove lens holder and lens. Unscrew the '2' Torx screws and remove the LED board.

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

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

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

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

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

**10 Reconnect wire** to connector (insulation does not need to be stripped).

**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.