



PANOS 3.5" Square and Round Downlight – 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.

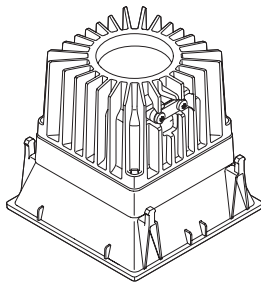
ATTENTION: RISQUE D'INCENDIE ET D'ELECTROCUTION

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.

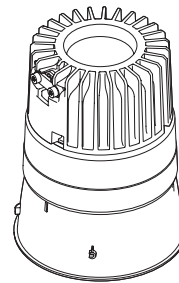
NOTE

National or municipal codes must be followed regarding fixture installation and set back of thermal insulating material from luminaire. Fixtures are not designed for direct contact with thermal insulation.

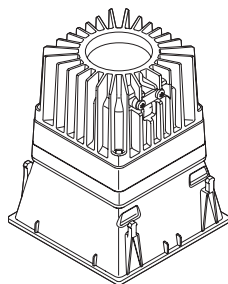
The following installation instructions relate to the options below



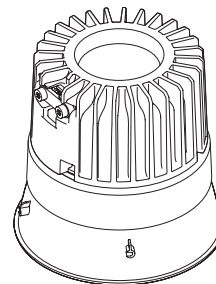
3.5" PANOS Downlight, Flangeless, Square, Low Reflector



3.5" PANOS Downlight, Flangeless, Round, Low Reflector



3.5" PANOS Downlight, Flangeless, Square, High Reflector

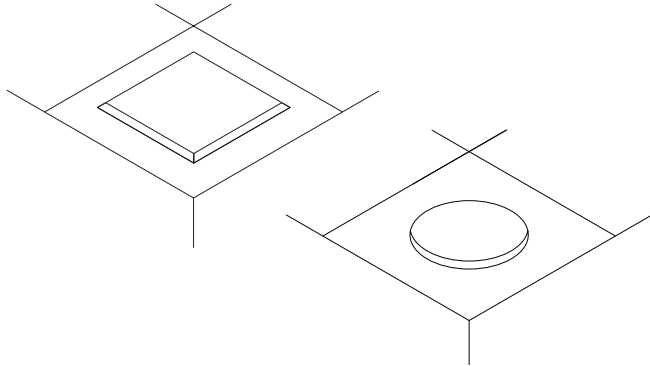


3.5" PANOS Downlight, Flangeless, Round, High Reflector

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

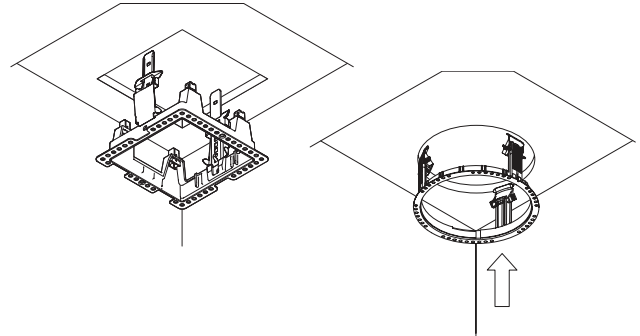
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STANDARD INSTALLATION



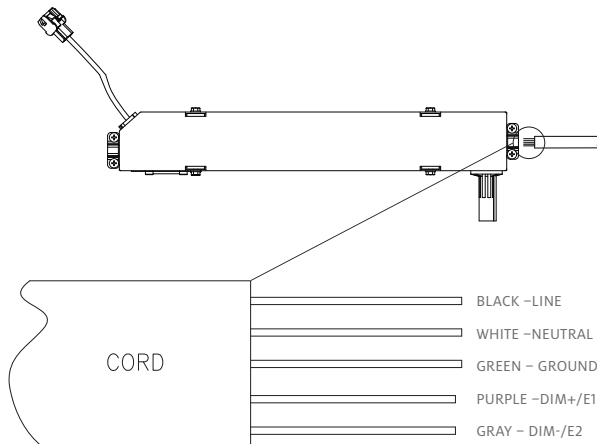
1 Cut opening in ceiling. Ensure a minimum clearance of 2" around proposed fixture location within the ceiling before beginning.

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

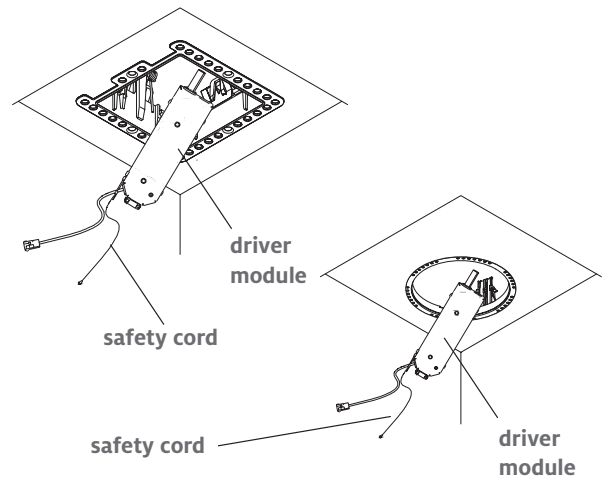


2 Install installation ring into ceiling. Fastening springs will flip over, pull down on springs to secure ring to ceiling structure. Adjust mounting brackets so bottom of flange is flush with ceiling line. (1-9/16" ceiling thickness, max.)

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.



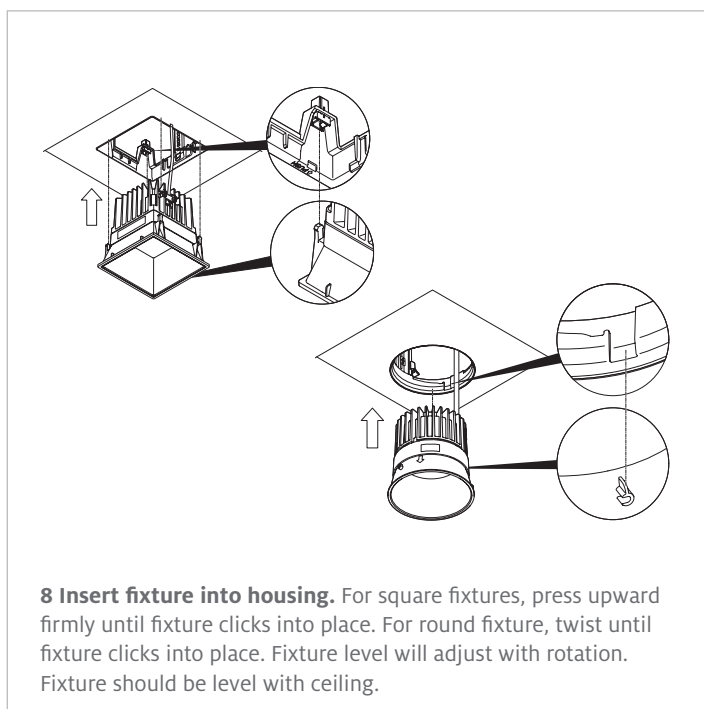
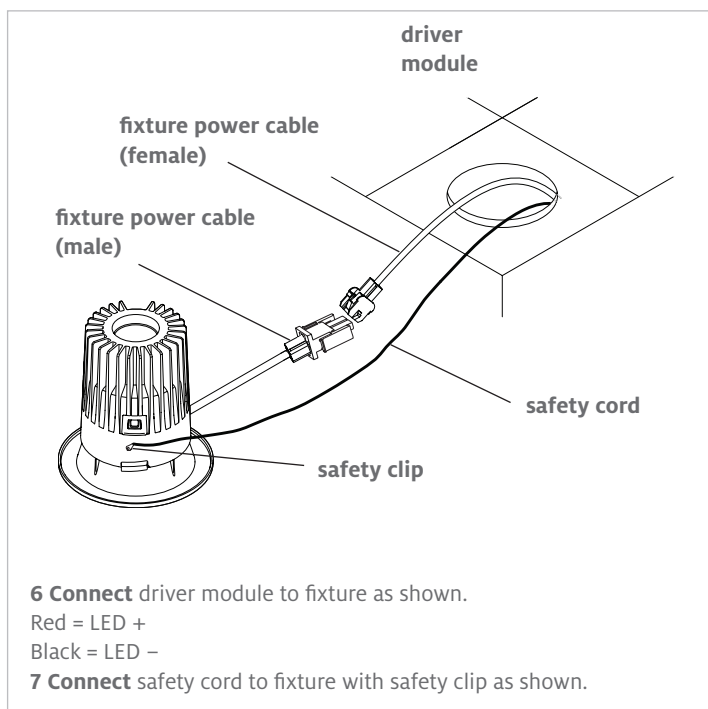
4 Make electrical connections as shown. Ground rough-in using the green ground wire. For non-dimming installations, cap off the two control wires and connect the hot, neutral, and ground as normal. For 0-10V dimming applications, connect the DIM+ wire to the positive, and the DIM- wire to the negative.



5 Place Driver Module through ceiling cutout.

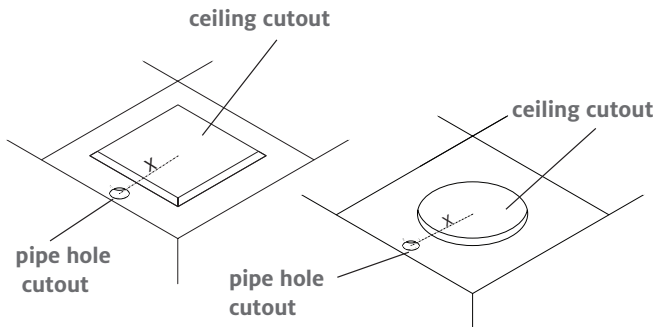
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STANDARD INSTALLATION (continued)



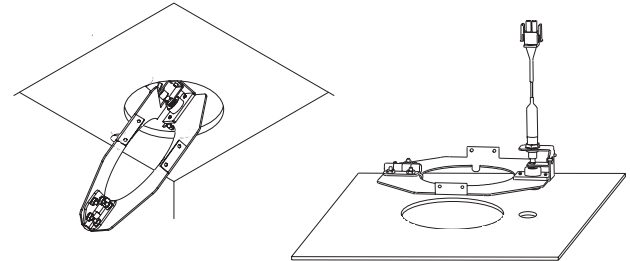
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EMERGENCY INSTALLATION

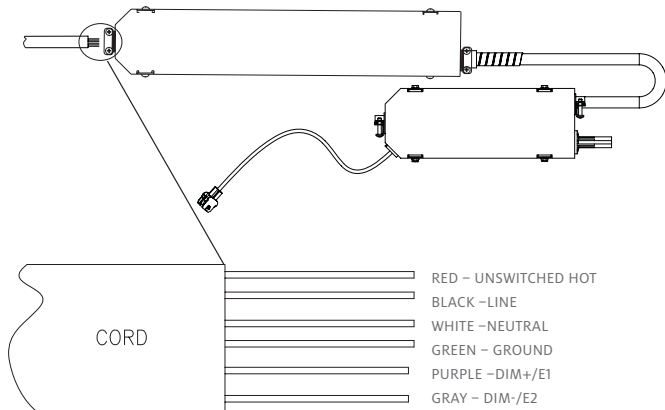


1 Cut opening in ceiling and drill hole for EM button. Refer to page 2 for fixture cutout sizes. Dimensions for pipe hole size and position are below. In above diagrams, X refers to the distance between the centers of the two holes.

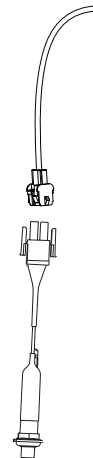
Pipe Hole	INACCESSIBLE CEILING	SQUARE AND ROUND (INACCESSIBLE)
Diameter:	7/16"	2-7/8"



2 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.
3 Install installation ring into ceiling as per standard instructions.



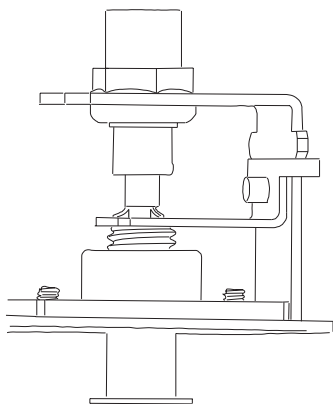
4 Make electrical connections as shown. Ground rough-in using the green ground wire. For non-dimming installations, cap off the two control wires and connect the hot, neutral, and ground as normal. For 0-10V dimming applications, connect the DIM+ to the positive, and the DIM- to the negative. For EM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



5 For inaccessible ceilings, insert driver module into ceiling and connect driver module to fixture as per standard instructions.
6 Connect driver module to test switch as shown above.
 Purple = +
 Brown = -

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EMERGENCY INSTALLATION (Continued)



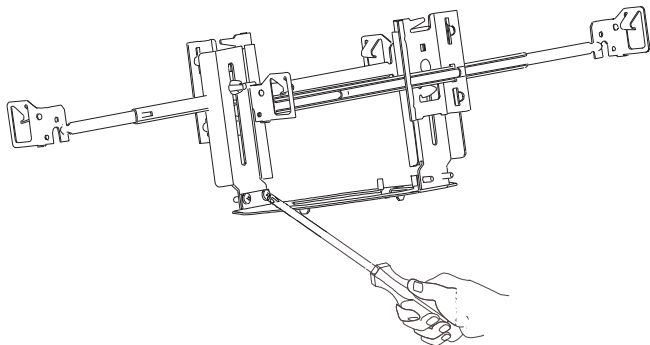
7 Install fixture into ceiling as per standard instructions.

8 Install pipe hole cover into installation frame through ceiling cutout. The pipe hole cover will thread into the nut on the plate.

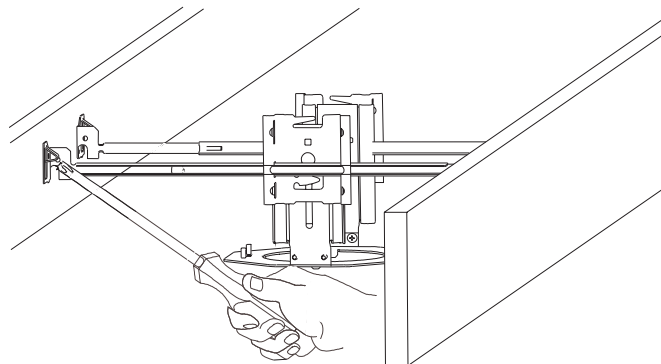
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HANGER BAR INSTALLATION (Optional)

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.

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.

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 Reverse Procedure to reinstall fixture.

11 Turn on the power.

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