

Installation Instructions – IRiS Ultra-shallow New Construction Downlight P3DUS*, P3SQDUS*

WARNING



Risk of Fire, Electrical Shock, Cuts or other Casualty Hazards- Installation and maintenance of this product must be performed by a qualified electrician. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and hazards involved.



Risk of Fire and Electric Shock- Make certain power is OFF before starting installation or attempting any maintenance. Disconnect power at fuse or circuit breaker.



Risk of Fire- Minimum 90°C supply conductors. For Non-IC fixtures do not install insulation within 3 inches (76 mm) of any part of the luminaire fixture or in a way that may entrap heat.



Risk of Burn- Disconnect power and allow fixture to cool before handling or servicing.

Risk of Personal Injury- Due to sharp edges, handle with care.

Failure to comply with these instructions may result in death, serious bodily injury and property damage.

DISCLAIMER OF LIABILITY: Cooper Lighting Solutions assumes no liability for damages or losses of any kind that may arise from the improper, careless, or negligent installation, handling or use of this product.

IMPORTANT: Read carefully before installing the fixture. Retain for future reference.

Note: Do not energize the LED Engine until the protective cover has been removed with the optic and lower trim properly installed. Do not touch the surface of the LED as it may damage the light engine.

SAFETY INSTRUCTIONS

When using electrical equipment, basic safety precautions should always be followed, including the following:

1. This unit is for recessed mounting only.
2. Do not use this equipment for other than the intended use.
3. Install only in accordance with National Electrical Code and local regulatory agencies' requirements.
4. For safety, always wear gloves and safety glasses when handling the luminaire—from unpacking through installation and maintenance.

Tools Required:

#2 X 4" Phillips screwdriver

Right angle ratchet and 1/4" hex socket

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INSTALLATION

Fixture is designed for installation where it may come in contact with insulation. Install hanger bars in orientation shown (Figure 1).

Installation In New Construction

1. Extend bar hangers to fit between joists. Position fixture by hammering nails into joists. Hanger bar flange should be against bottom of joist (Figure 2)
2. Bar Hangers may be shortened to fit 12" (30.5 cm) and extend max to fit 24" (61 cm) on center framing, remove hanger bars from housing by depressing tab and sliding apart (Figure 3). Break off at score lines by bending in direction shown – no tools required. (Figure 4).
3. Follow steps 1 through 5 under "Electrical Connection"
4. Position fixture on hanger bars. To secure fixture position in ceiling tighten hanger bar locking screw to lock fixture in place on bars (Figure 1).
5. Once the ceiling is installed, remove the overspray protector, adjust fixture for ceiling thickness by loosening the 4 hex screws that attach the collar to the housing. Bring the bottom edge of collar flush with the finished ceiling (Figure 5) and tighten 4 hex screws. If ceiling thickness is greater than 1.25" and up to 2-1/2", replace existing collar with extension collar (PCE3* or CA3*) and adjust height using hex screws (see figure 8 and 9) as per the Extension-Collar-installation-instructions sheet # IL53450325. If Knife edge adaptors (CA3*) are used Self-Flange adaptor which is part of the housing has to be removed before installing the fixture in the ceiling.
6. For square apertures, the edges of the collar may be adjusted to align them parallel with room walls. This can be done by reaching into the cutout and loosening the wing nut on plaster frame shown in fig 6. Note: the optics may need to be removed to access these screws, see the section on replacing optics. The entire turntable can be rotated by grabbing the edge of the collar until it is aligned as desired. The turntable screws are to be tightened again, (and the optics module replaced, if it was removed).
7. See the chart below for appropriate cut-outs (square vs. round, standard vs. rimless).
8. For situations where the housing lid is accessible after housing installation, see figure 10 for removal.

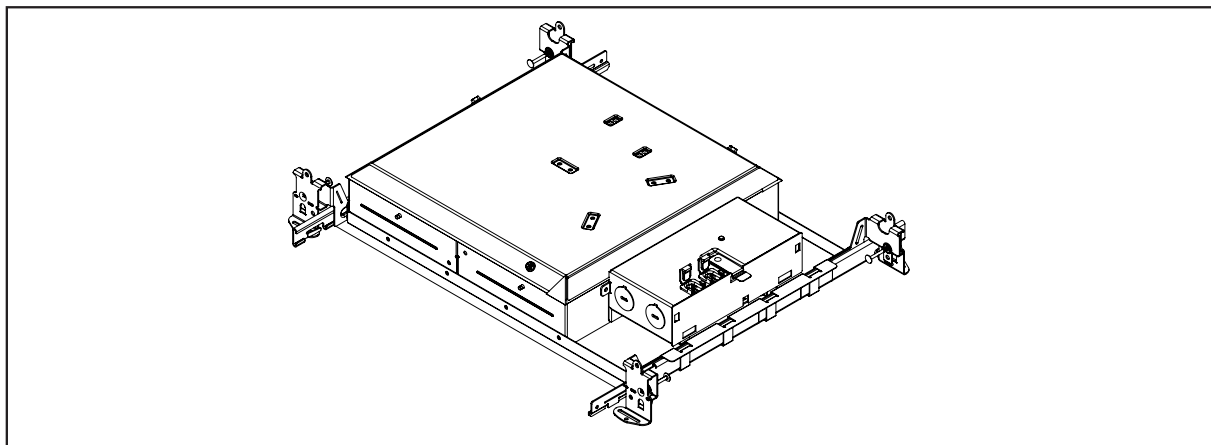


Figure 1.

Catalog Number	Aperture	Ceiling cutout - Self flanged/ knife Edge for Mud-in (plaster)/ knife edge for millwork (hard ceiling)	Fixture Height	Plenum Type
P3DUS*/P3DUSCP*	3.375"	3 11/16" /3 11/16"/ 3 1/2"	2.5"	IC
P3SQDUS*/P3SQDUSCP*	3.375" SQ	3 11/16" /3 11/16"/ 3 1/2" SQ	2.5"	IC

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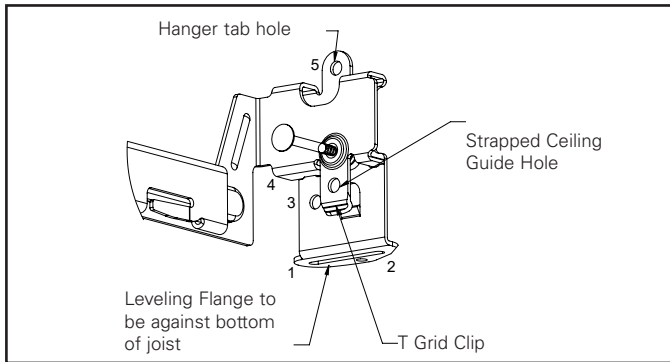


Figure 2.

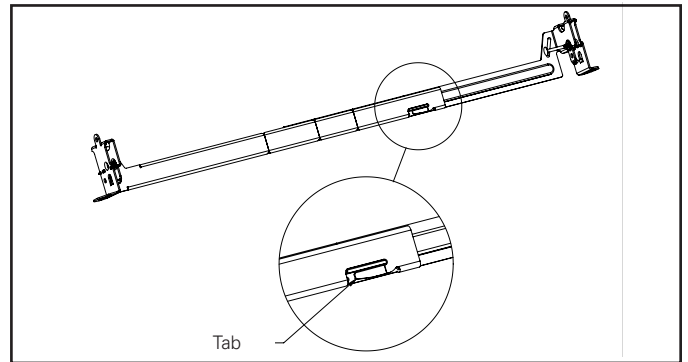


Figure 3.

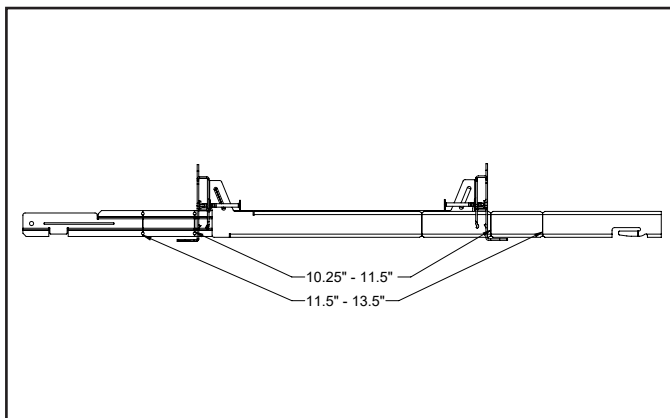


Figure 4.

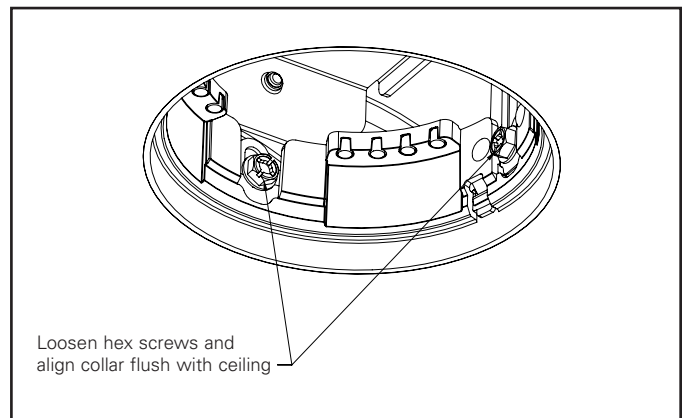


Figure 5.

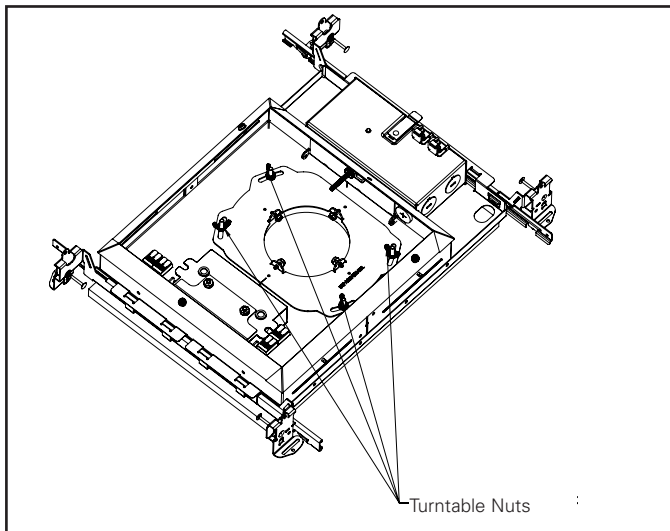


Figure 6.

Installation Instructions – IRiS Ultra-shallow New Construction Downlight P3DUS*, P3SQDUS*

Installation In Suspended Ceiling

1. Locate center of proposed opening on the ceiling tile and see the chart above for appropriate cut-outs (square vs. round, standard vs. rimless).
2. Place ceiling tile in T-bar grid.
3. Snap fixture on T-bars. Secure with screw (not included) as shown (Figure 7).
4. Center fixture over opening. To secure fixture position in ceiling, tighten screws to lock fixture in place on bars. (Figure 1.)
5. Follow Steps 3 through 8 in "Installation in New Construction".

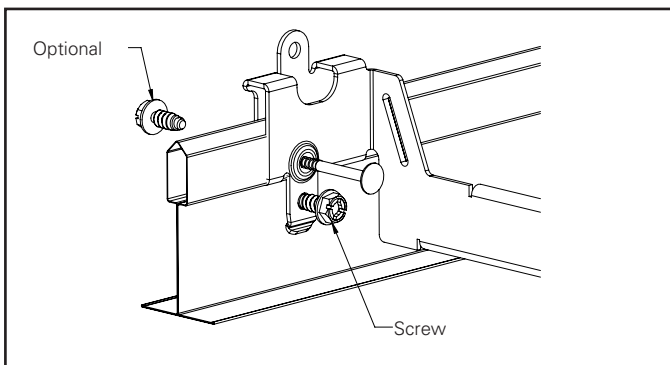


Figure 7.

Installation In New Construction Strapped Ceiling

Option 1: Nail installation on the joist

1. Use the guide hole below nail to align bar hanger bracket below joist to adjust for the thickness of the strapping.
2. Align the guide hole below the joist to where you just see through the guide hole and hammer nails into joists.
3. Additional nails or screws may be used in the hanger tab hole.
4. Follow Steps 3 through 8 in "Installation in New Construction".

Option 2: Installation on strapping

1. Use leveling flange (Figure 2) to position housing on bottom of strapping (strapping must be 12" [30.5 cm] to 24" [61 cm] apart).
2. Use slot or hole in leveling flange (Figure 2) to secure the bar hanger bracket to the strapping with nails or screw (not included).
3. Follow Steps 3 through 8 in "Installation in New Construction".

Installation Instructions – IRiS Ultra-shallow New Construction Downlight P3DUS*, P3SQDUS*

Installation in Rough-In Section

1. Fixture Attachment Method: Install fixture into ceiling cavity using 1/2" electrical conduit. Use 3/4" channel, 1-1/2" channel, 1/8" x 1/2" bar stock, or T-bar fasteners as mounting rails (furnished by others) by inserting them through hanger brackets at both sides
2. Remove overspray protector. Adjust 4 #8 screws such that the bottom of the collar is flush with the finished ceiling. If ceiling thickness is greater than 1.25" and up to 2-1/2", replace existing collar with extension collar (PCE3* or CA3*) and adjust height using hex screws. (see figure 7 and 8).
3. Hanger bar bracket should be adjusted as needed (screws, see figure 9).
4. Follow Steps 3 through 8 in "Installation in New Construction."

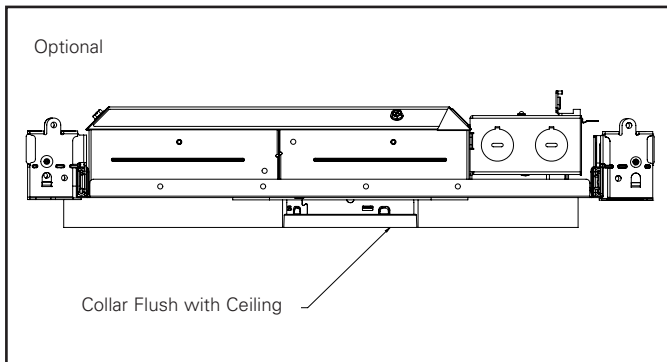


Figure 8.

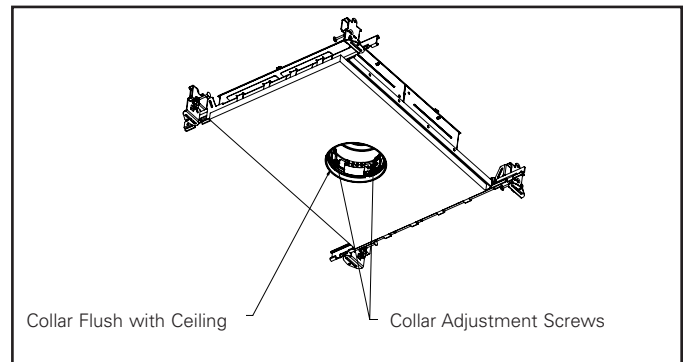


Figure 9.

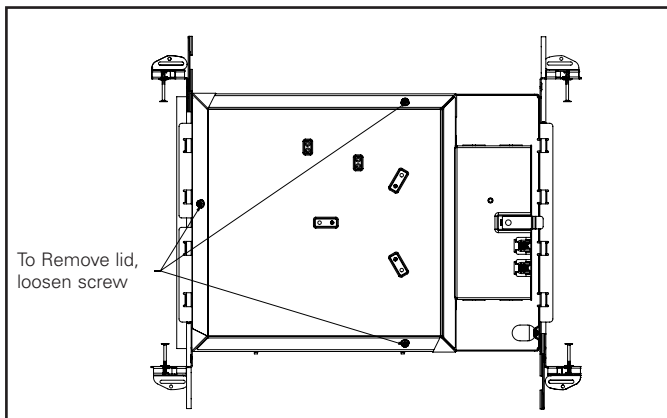


Figure 10.

Installation for Air-Tite Construction

IRiS Air-Tite™ housings with ASTM E283 certification pre-installed gasket sealing the aperture, frame and ceiling: **no need for additional caulk**. When properly installed, Air-Tite™ housings provide compliance with restricted airflow regulations.

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WIRING

1. Remove outer JBOX door. Connect supply leads and appropriate dimming/ controls leads as specified in the wiring diagrams and in accordance with your local electrical code(s) or N.E.C. (see Figure 11 and 12).
2. Connect dimming wires and keep a minimum of 10in [250mm] of insulated unshielded wire inside the JBOX.).
3. Connect supply wires and keep a minimum of 10in [250mm] of insulated unshielded wire inside JBOX.
4. Replace outer JBOX door.
5. See Figure 11-14 for visual assistance.

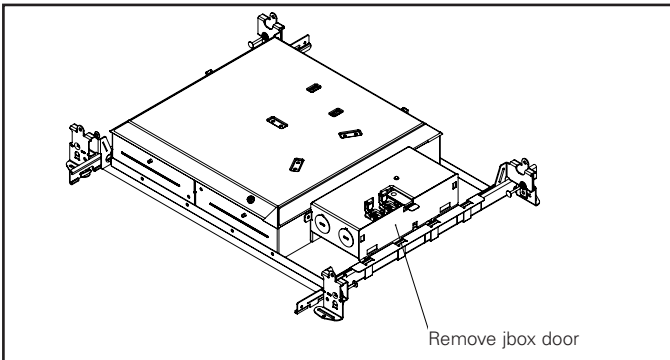


Figure 11.

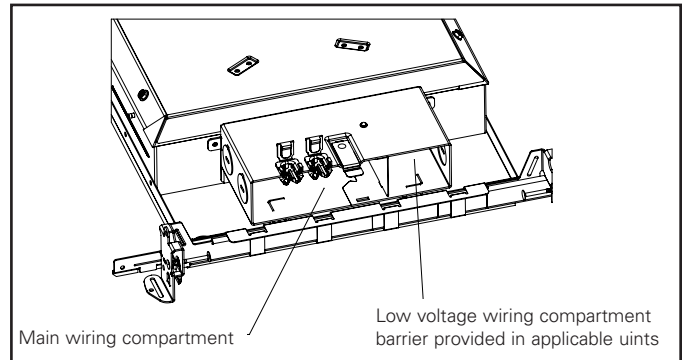


Figure 12.

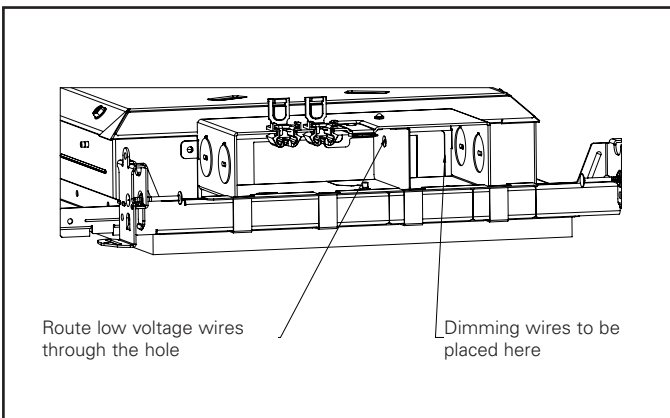


Figure 13.

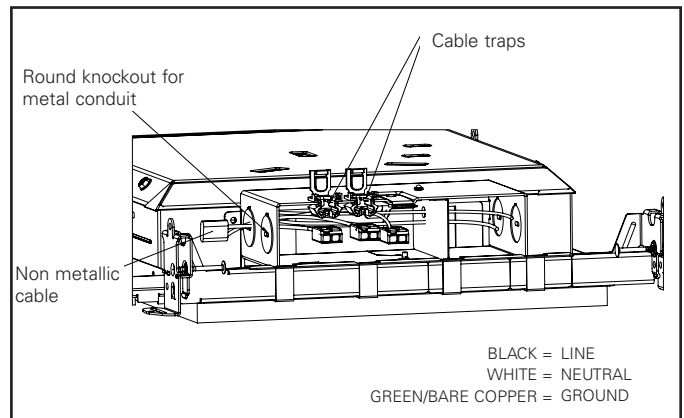


Figure 14.

ELECTRICAL CONNECTION

⚠ CAUTION

Make certain no bare wires are exposed outside the lever nut connectors.

1. Provide electrical service according to the “National Electrical Code” or your local electrical code to the junction box (located on the plaster frame). Supply wire insulation must be rated for at least 90°C in applicable units. The junction box is rated for a maximum of 8 No. 12 AWG Branch Circuit conductors that must also be suitable for at least 90°C.
2. Remove junction box cover (Figure 14).
3. Remove appropriate round pry out and connect conduit to junction box with proper connector (not included).
4. Connect supply lead wires to junction box lead wires (line, neutral and ground) in the fixture using properly sized wire nuts. Be careful not to leave any bare conductors outside of the wire nut connectors.
5. Connect white wire to neutral, black wire to supply line, and ground (from electrical service) on the supply side to the bare copper wire in the junction box. See wiring diagrams for low voltage wire connections. Place all excess wiring and connections into the junction box and replace the cover.
Note: If not using 0-10V dimming, ensure separate wire nuts are secured onto purple and pink wires to prevent touching housing.

OPTICS REPLACEMENT

1. The optic can be removed and replaced to provide a different beam angle. To remove optic, twist counter-clockwise. To install, insert optic and twist clockwise (Figure 15).
2. Also available, is a single/double media holder. To install, place the media onto the media holder. Engage snaps at bottom of snap staircase. Twist clockwise until tight (Figure 16).

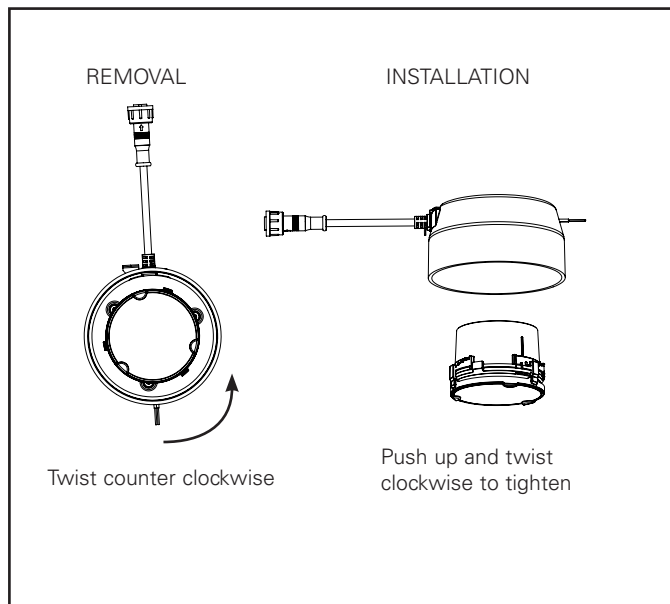


Figure 15.

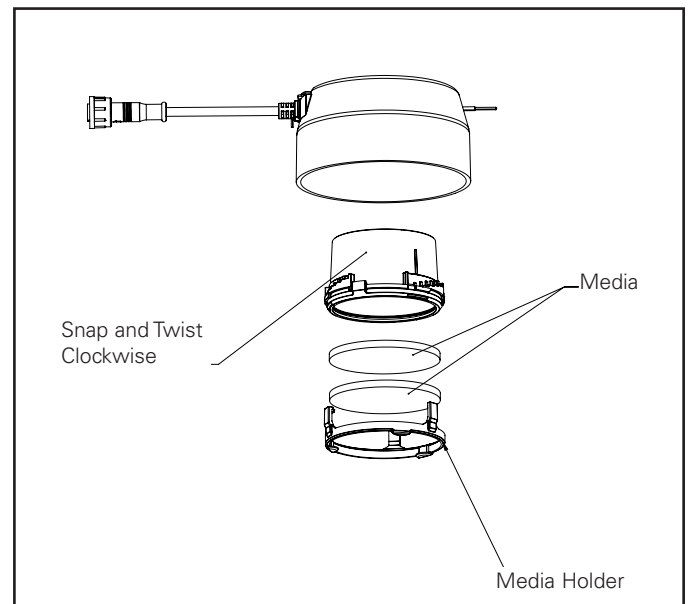


Figure 16.

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LED REPLACEMENT

1. Remove the trim from the housing (pull gently).
2. Unscrew adapter screws (fig 5) and remove the adapter gently, refer adaptor installation section.
3. Remove the optic (see figure 15).
4. Grab the heat sink and pull down firmly. (fig 18).
5. Carefully pull the light engine out of the ceiling recognizing the low voltage LED wires will follow the light engine through the aperture.
6. Disconnect the quick connect wires.
7. Discard old light engine.
8. Replace light engine and connect wiring.
9. Push light engine into the ceiling firmly between the 3 locator clips until it is flush with the lid. Ensure the light engine is flush with the top cover of the housing (fig 19). Light engine is magnetically attached, no additional assembly required once it touches the top.
10. Make sure wires will not interfere with the optic and LED module- route wires through the hook provided on the lid. (fig 20).
11. Check the wire connection by turning on and off the fixture.
12. Replace the adaptor, optics and trim.

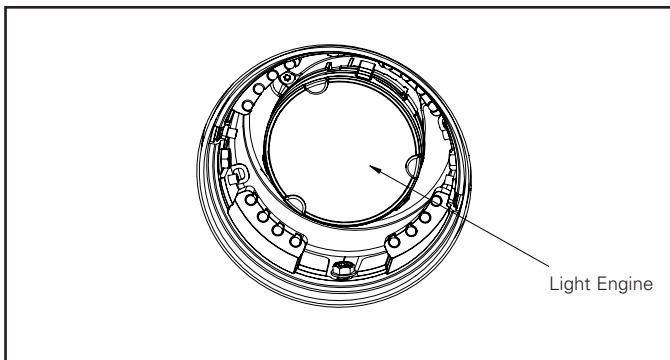


Figure 17.

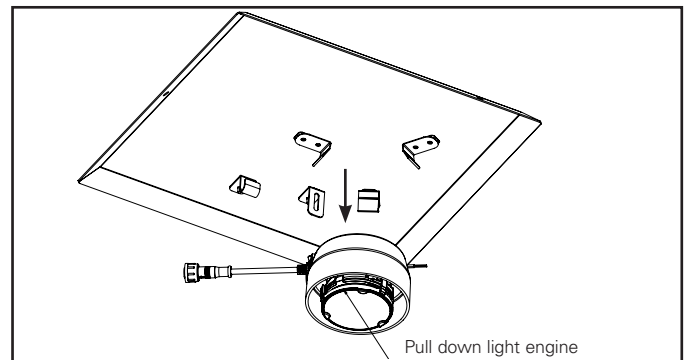


Figure 18.

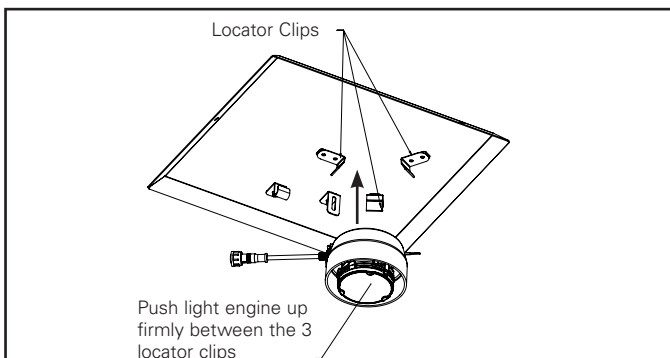


Figure 19.

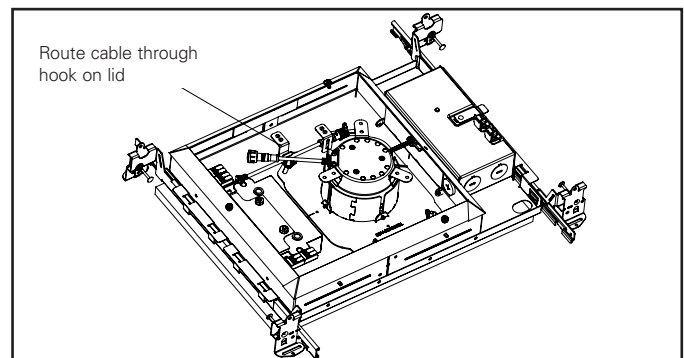


Figure 20.

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TRIM INSTALLATION

1. To clean, gently wipe with a soft, clean, dry lint-free cloth to remove dust.
2. In the event fingerprints are placed on the reflective area, use a mild detergent solution on a soft, clean cloth to remove them. Wipe with clean water and dry with a soft, clean, dry lint-free cloth.
3. The above cleaning method can be used anytime during the life of the trim.
4. Remove the overspray protector.
5. Attach trim tether clip to aiming bracket (Figure 21).
6. Align mounting plates with magnets and place trim against ceiling (Figure 22).

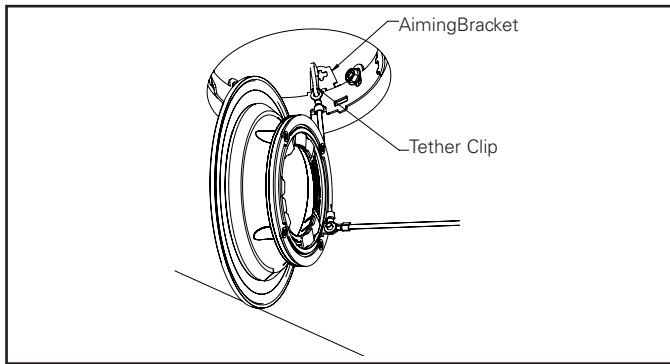


Figure 21.

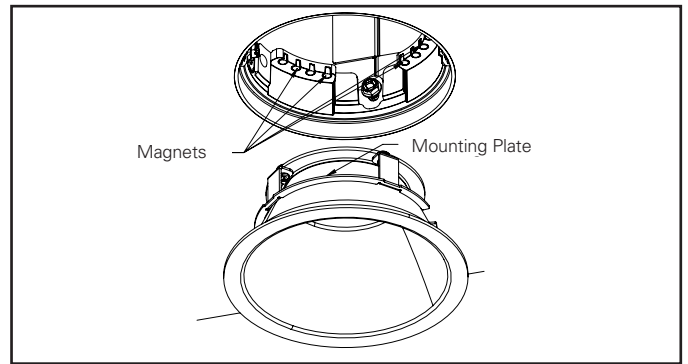


Figure 22.

DRIVER REPLACEMENT

WARNING



Risk of Fire, Electrical Shock, Cuts or other Casualty Hazards- Installation and maintenance of this product must be performed by a qualified electrician. This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and hazards involved.



Risk of Fire and Electric Shock- Make certain power is OFF before starting installation or attempting any maintenance. Disconnect power at fuse or circuit breaker.

PLUG-IN DRIVER REPLACEMENT/INSTALLATION

The driver maybe replaced either from below or above the ceiling (if ceiling access is present). To replace this unit's driver from below the ceiling:

1. Power off the fixture.
2. Remove the trim from the housing (pull gently).
3. Remove the adaptor from ceiling by loosening the 4-zinc plate hex screws that attach the collar to the housing (see Fig. 5). DO NOT REMOVE ALL THE WAY
4. Remove light engine (see section on LED replacement).
5. Reach into the ceiling and locate the driver. Hold and pull the plug-in driver box assembly until it disconnects (Figure. 23).
6. Carefully pull the driver out through the ceiling cutout, recognizing the supply wires and dimming wires will follow the driver through the aperture.
7. Disconnect the driver wires, and connect the replacement driver.
8. Replace the driver back into the housing following steps 7 through step 4 in reverse. The driver bracket has features that must insert into receiving slots in the housing to ensure it is correctly positioned. When it is in place, the driver should snap in place and be held firmly by the magnets. If the driver does not hold in place, pull it out, align it correctly and repeat the above.
9. Make sure wires will so not interfere with the optic and LED module- route wires through the hook provided on the lid. (fig 20)
10. Replace LED light engine, optic, collar (following the instructions from the rough-in section) and insert trim.
11. Re-position the mechanism as desired. Replace optic onto light engine and insert trim. Clean trim if necessary, before replacing (to remove dust or fingerprints).

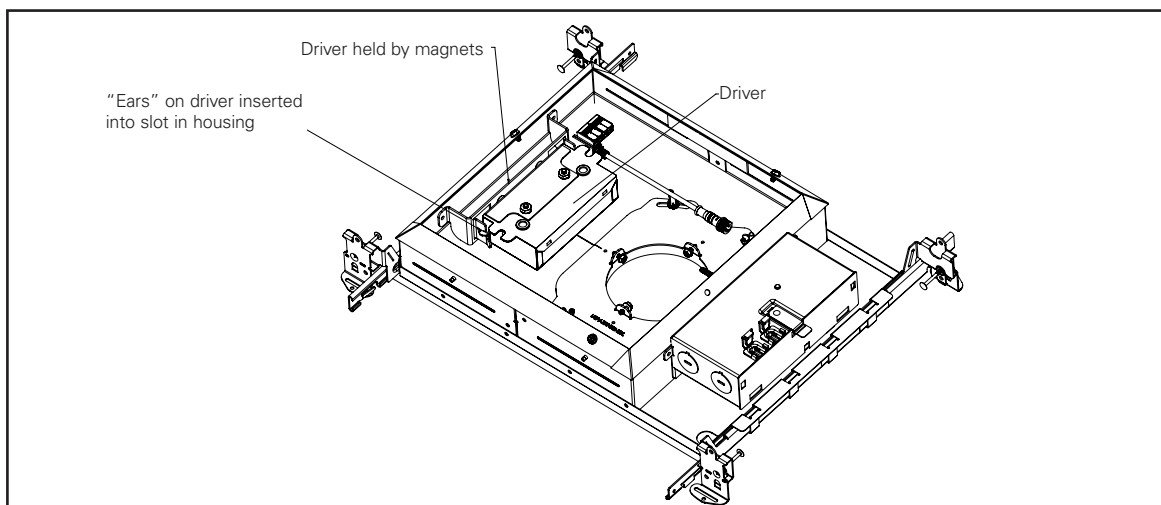


Figure 23.

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DIMMING

The IRiS P3*DUS*DTR Series can be dimmed with many standard 120V incandescent dimmers, electronic low voltage dimmers and 0-10V DC dimming controls. The Portfolio P3*DUS*DE010 and P3*-DUS*D010 Series can be dimmed with 0-10V DC dimming controls but are NOT to be dimmed using line voltage dimmers. The Portfolio P3*DUS* *D5LT Series can be dimmed with Fifth Light and DALI compatible controls. The Portfolio P3*DUS*DMX Series can be dimmed with DMX compatible controls.

5-YEAR LIMITED WARRANTY

THE FOLLOWING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

Cooper Lighting Solutions warrants to customers that, for a period of five years from the date of purchase, Cooper Lighting Solutions products will be free from defects in materials and workmanship. The obligation of Cooper Lighting Solutions under this warranty is expressly limited to the provision of replacement products. This warranty is extended only to the original purchaser of the product. A purchaser's receipt or other proof of date of original purchase acceptable to Cooper Lighting Solutions. This is required before warranty performance shall be rendered.

This warranty does not apply to Cooper Lighting Solutions products that have been altered or repaired or that have been subjected to neglect, abuse, misuse or accident (including shipping damages). This warranty does not apply to products not manufactured by Cooper Lighting Solutions which have been supplied, installed, and/or used in conjunction with Cooper Lighting Solutions products. Damage to the product caused by replacement bulbs or corrosion or discoloration of brass components are not covered by this warranty.

LIMITATION OF LIABILITY:

IN NO EVENT SHALL COOPER LIGHTING SOLUTIONS BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES (REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, STRICT LIABILITY, OR IN TORT INCLUDING NEGLIGENCE), NOR FOR LOST PROFITS; NOR SHALL THE LIABILITY OF COOPER LIGHTING SOLUTIONS FOR ANY CLAIMS OR DAMAGE ARISING OUT OF OR CONNECTED WITH THESE TERMS OR THE MANUFACTURE, SALE, DELIVERY, USE, MAINTENANCE, REPAIR OR MODIFICATION OF COOPER LIGHTING SOLUTIONS PRODUCTS, OR SUPPLY OF ANY REPLACEMENT PARTS THEREFORE, EXCEED THE PURCHASE PRICE OF Cooper Lighting Solutions PRODUCTS GIVING RISE TO A CLAIM. NO LABOR CHARGES WILL BE ACCEPTED TO REMOVE OR INSTALL FIXTURES.

All returned products must be accompanied by a Return Goods Authorization Number issued by the Company and must be returned freight prepaid. Any product received without a Return Goods Authorization Number from the Company will be refused. Cooper Lighting Solutions is not responsible for merchandise damaged in transit. Repaired or replaced products shall be subject to the terms of this warranty and are inspected when packed. Evident or concealed damage that is made in transit should be reported at once to the carrier making the delivery and a claim filed with them. Reproductions of this document without prior written approval of Cooper Lighting Solutions are strictly prohibited.

FCC Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off an on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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