

READ AND FOLLOW ALL SAFETY INSTRUCTIONS!

SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AFTER INSTALLATION

- To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards please read all warnings and instructions included with and on the fixture box and all fixture labels.
- Before installing, servicing, or performing routine maintenance upon this equipment, follow these general precautions.
- Installation and service of luminaires should be performed by a **qualified licensed electrician**.
- Maintenance of the luminaires should be performed by person(s) familiar with the luminaires' construction and operation and any hazards involved. Regular fixture maintenance programs are recommended.
- It will occasionally be necessary to clean the outside of the refractor/lens. Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user. Refractor/lens should be washed in a solution of warm water and any mild, non-abrasive household detergent, rinsed with clean water and wiped dry. Should optical assembly become dirty on the inside, wipe refractor/lens and clean in above manner, replacing damaged gaskets as necessary.
- **DO NOT INSTALL DAMAGED PRODUCT!** This luminaire has been properly packed so that no parts should have been damaged during transit. Inspect to confirm. Any part damaged or broken during or after assembly should be replaced.
- Recycle: For information on how to recycle LED electronic products, please visit www.epa.gov.
- These instructions do not purport to cover all details or variations in equipment nor to provide every possible contingency to meet in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's or owner's purposes, this matter should be referred to Acuity Brands Lighting, Inc.



WARNING
RISK OF ELECTRIC SHOCK

- ✓ Disconnect or turn off power before installation or servicing.
- ✓ Verify that supply voltage is correct by comparing it with the luminaire label information.
- ✓ Make all electrical and grounded connections in accordance with the National Electrical Code (NEC) and any applicable local code requirements.
- ✓ All wiring connections should be capped with UL approved recognized wire connectors.



WARNING
RISK OF BURN

- ✓ Allow lamp/fixture to cool before handling. Do not touch enclosure or light source.
- ✓ Do not exceed maximum wattage marked on luminaire label.
- ✓ Follow all manufacturer's warnings, recommendations and restrictions for: driver type, burning position, mounting locations/methods, replacement and recycling.



CAUTION
RISK OF INJURY

- ✓ Wear gloves and safety glasses at all times when removing luminaire from carton, installing, servicing or performing maintenance.
- ✓ Avoid direct eye exposure to the light source while it is on.



CAUTION
RISK OF FIRE

- ✓ Keep combustible and other materials that can burn, away from lamp/lens.
- ✓ Do not operate in close proximity to persons, combustible materials or substances affected by heat or drying.



CAUTION: RISK OF PRODUCT DAMAGE

- ✓ Never connect components under load.
- ✓ Do not mount or support these fixtures in a manner that can cut the outer jacket or damage wire insulation.
- ✓ Controls for dimming, auto-sensing, or remote control of a luminaire that are not factory-wired to the luminaire must be checked for compatibility with the luminaire prior to installation. LED fixtures must be powered directly off a switched circuit.
- ✓ Unless individual product specifications deem otherwise: Do not restrict fixture ventilation. Allow for some volume of airspace around fixture. Avoid covering LED fixtures with insulation, foam, or other material that will prevent convection or conduction cooling.
- ✓ Unless individual product specifications deem otherwise: Do not exceed fixtures maximum ambient temperature.
- ✓ Only use fixture in its intended location.
- ✓ LED products are Polarity Sensitive. Ensure proper Polarity before installation.
- ✓ Electrostatic Discharge (ESD): ESD can damage LED fixtures. Personal grounding equipment must be worn during all installation or servicing of the unit.
- ✓ Do not touch individual electrical components as this can cause ESD, shorten lamp life, or alter performance.
- ✓ Some components inside the fixture may not be serviceable. In the unlikely event your unit may require service, stop using the unit immediately and contact an ABL representative for assistance.
- ✓ Always read the fixtures complete installation instructions prior to installation for any additional fixture specific warnings.
- ✓ Always ensure that the electrical distribution system is up to NEC (and any applicable local code) requirements.
- ✓ Verify that power distribution system has proper grounding. Lack of proper earth ground can lead to fixture failure and may void warranty.

Choose either Part 15 OR Part 18 and move to Page 3 Installation Instructions under Delivery. Lithonia Outdoor will always use Part 15. All luminaires that contain electronic devices that generate frequencies above 9kHz from any component within the luminaire comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received, including interference that may cause undesired operation

This device complies with Part 18 of the FCC Rules but may cause interference with cordless and cell phones, radios, televisions, and other electronic devices. To correct the problem, move the device away from the luminaire or plug into a different outlet. This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communications equipment operating between 0.45-30MHz.

Failure to follow any of these instructions could void product warranties. For a complete listing of product Terms and Conditions, please visit www.acuitybrands.com.

Our Brands	Indoor/Outdoor Lithonia Lighting Carandini Holophane RELOC Light Concepts	Indoor Lighting Aculux Gotham Indy Juno Mark Architectural Lighting Peerless Renaissance Lighting Winona Lighting	Outdoor Lighting American Electric Lighting Antique Street Lamps Hydrel Tersen	Controls DARK TO LIGHT LC&D ROAM Sensor Switch Synergy	Daylighting SunOptics
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Acuity Brands Lighting, Inc. assumes no responsibility for claims arising out of improper or careless installation or handling of its products.

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HOLOBAY INSTALLATION INSTRUCTIONS

WARNING: Please read all LED important safety instructions on pages 1-2 prior to installation of this product.

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1. Identification of HOLOBAY Luminaire

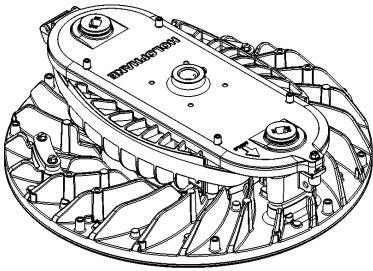


Figure 1.01: HOLO1 Fixture

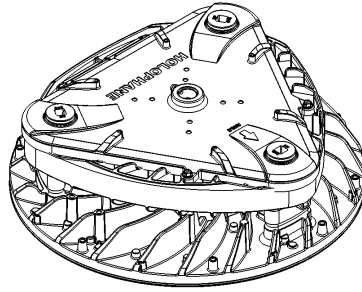


Figure 1.02: HOLO1 HA Fixture

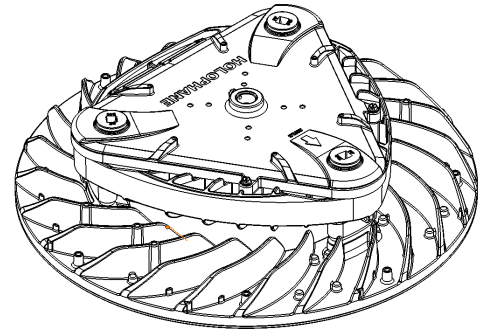


Figure 1.03: HOLO2 Fixture

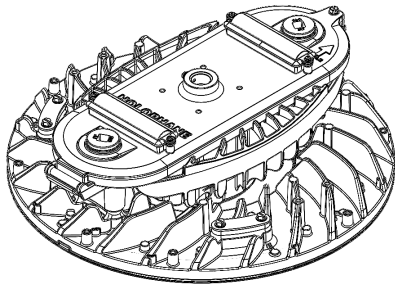


Figure 1.04: HOLO1 UPL (Uplight) Option

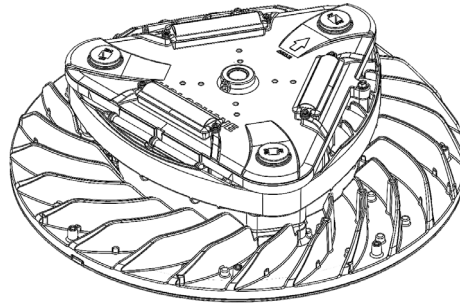


Figure 1.05: HOLO2 & HOLO1 HA UPL Option

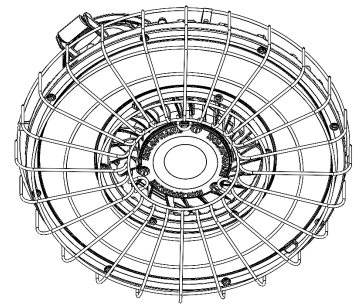


Figure 1.06: HOLO1 WGX (Wireguard) Option

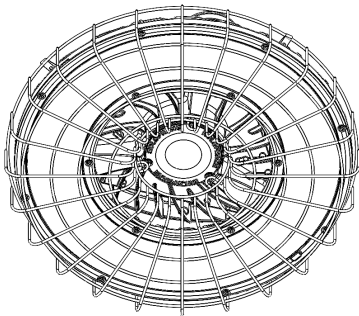


Figure 1.07: HOLO2 WGX Option

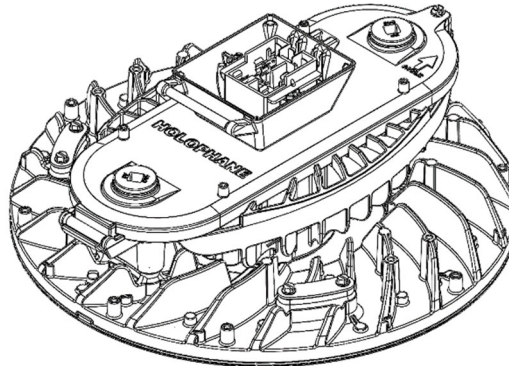


Figure 1.08: QD (Quick Disconnect) Option

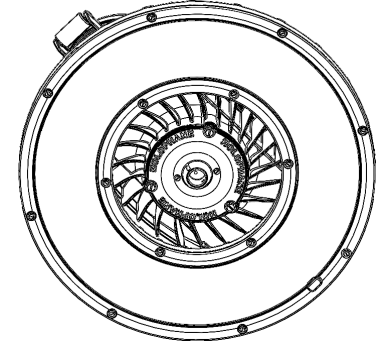


Figure 1.09: Inverted Mount

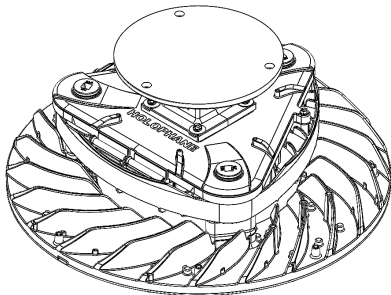


Figure 1.10: CRN (Crane) Option

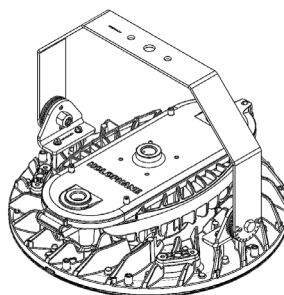


Figure 1.11: HOLO1 YK90 (Yoke) Option

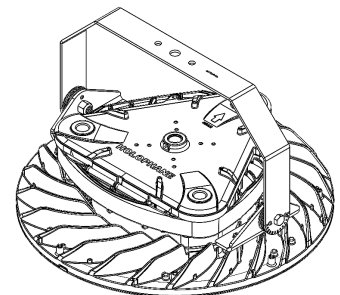


Figure 1.12: HOLO2 YK90 Option

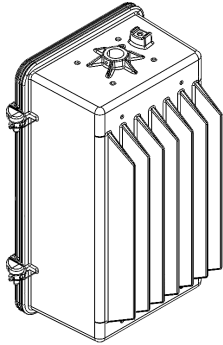


Figure 1.13: REM (Remote Housing) Option

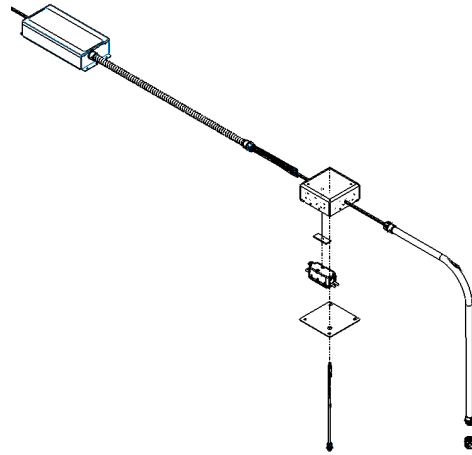


Figure 1.14: External Battery Option

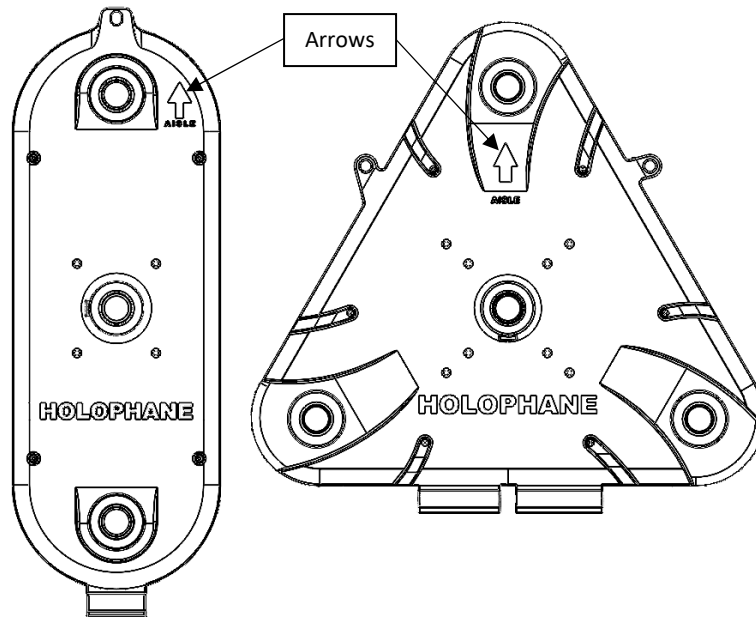


Figure 1.15: Orientation Arrows for Aisle Distribution

2. Pre-Installation For ALL Mounting

1. Ensure Power is **OFF**.
2. Disconnect all power to the existing luminaire and remove the existing luminaire from ceiling. Inspect the existing mounting location for damage before installing the new HOLOBAY in this location. Ensure mounting structure is properly sized to support the weight of the fixture.
3. Remove the new HOLOBAY from packaging and inspect for any damage. Handle new LED fixture with care. If damaged do not use; call your local rep for replacement.
4. Customer provided cable glands may be installed between the luminaire and conduit to reduce condensation for inside of the conduit from entering the luminaire. Use cable glands suitable for your end use application.

3. Installation

3.1 Tools and Material Required Table

DESCRIPTION	USE
5/16" Socket	Pendant Set Screw & Optic Compression Rings
3/8" Socket	Driver Housing Lid & Sensor Plate Screws
1/4" Socket	Drivers, sensors, surge protectors
3/4" Socket	Yoke adjustment bolts
3/4" square drive, socket extension	1 1/2" Plugs
Socket wrench	Crane mount
Flathead screwdriver	Adjustable Output (AO) device

3.2 Installation – Pendant Mount

1. Back out the pendant set screw far enough to ensure that it will not interfere with the pipe threads.
2. Apply thread sealant to used ¾ NPT entry way threads, then install conduit and wipe off any excess thread sealant.
3. Pull input wires through pendant entry and connect input wires black to black, white to white, and green to green. Use only UL listed connectors rated 90°C or greater. Supply wire must meet applicable electrical codes and be rated for a minimum of 90°C Purple and Pink Wires are low voltage dimming leads (0-10V).
4. Thread fixture onto pipe at least (5) full turns until secure. Mounting structure shall support the full weight of the luminaire in accordance with local codes.
5. Tighten pendant set screw to 40-50 in-lbs.

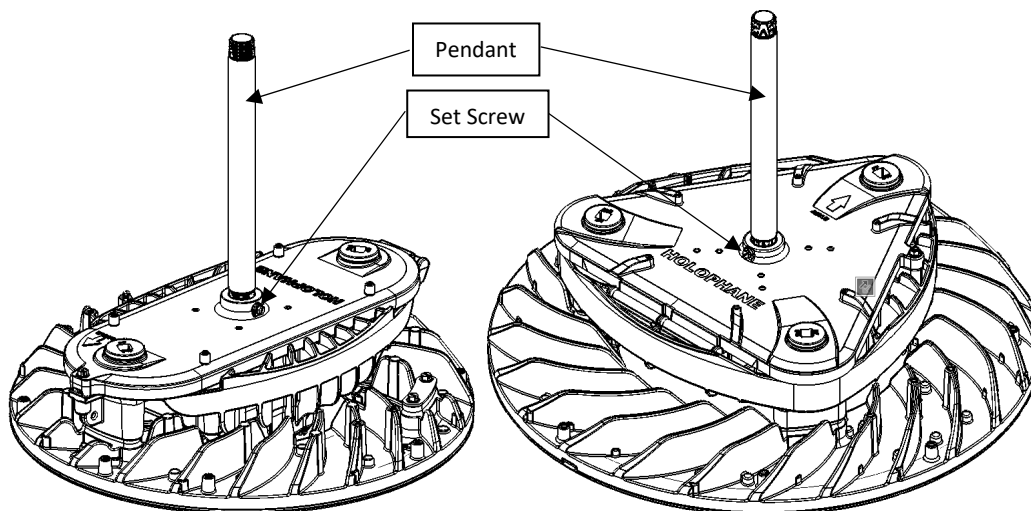


Figure 3.2.1: Pendant Mount for HOLO1 & HOLO2

3.3 Installation – Pendant Mount with Hook or Loop Option

1. Hang the fixture on a hook or loop that is properly sized and attached to support the weight of the luminaire.

2. If the hanging hook is provided with a spring tab retainer, be certain the tab has snapped closed against the inside of the hook.
3. If the hanging hook is provided with a retainer screw, tighten the retaining screw until it is snug to prevent it from backing out.
4. Tighten pendant set screw to 40-50 in-lbs.
5. Make all supply wire connections in accordance with all local electrical codes.

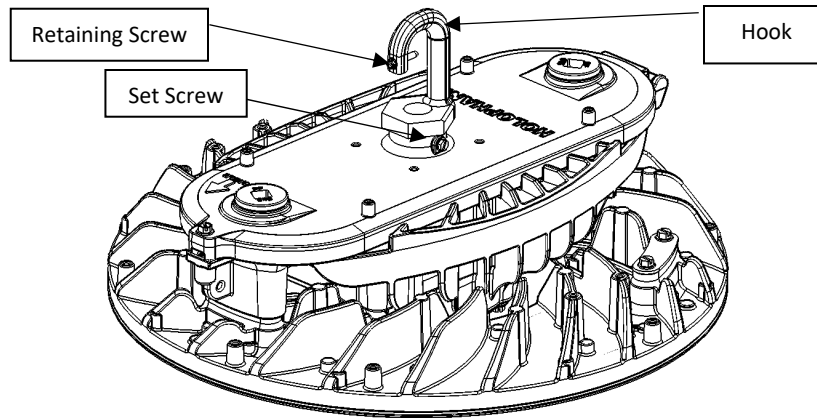


Figure 3.3.1: Installation – Hook Mounting Option

3.4 Installation – Yoke Mount

1. Provide 2x 3/8" diameter fasteners suitable for supporting the luminaire and install yoke mount to the structure via the yoke arm bracket.
2. Using a 3/4" socket, loosen the angle adjustment bolts until the yoke arm bracket can be rotated. Rotate the arm to the desired angle and tighten both angle adjustment bolts.
3. Route supply wires through pendant entry and thread conduit into top cover (5) full turns until secure. Mounting structure shall support the full weight of the luminaire in accordance with local codes.
4. Route supply wires through pendant entry and into electrical /driver housing
5. appropriate supply and ground connections to the luminaire wires in accordance with local codes. Luminaire may need to be supported and may not hang properly depending on yoke angle and orientation.

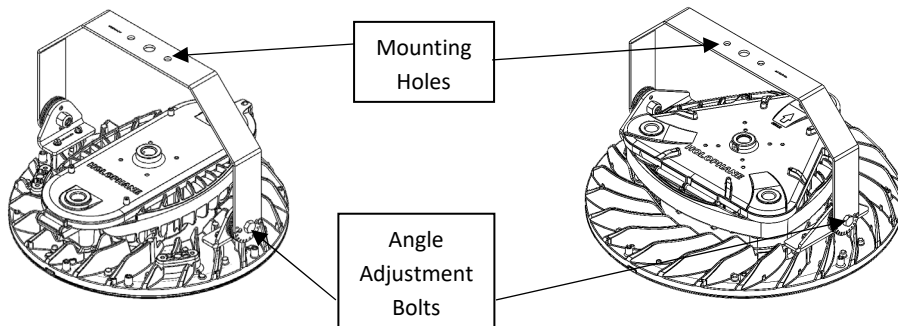


Figure 3.4.1: HOLO1 with Yoke Mount

Figure 3.4.2: HOLO2 with Yoke Mount

3.5 Installation – QD & QR Mount

1. The QD mounting type may be installed only to a Holophane QDH (Quick Disconnect Hanger) which is shipped separately. Install the QDH hanger following those instructions before proceeding with installation of the fixture. For QR mount, QDH hanger is reused from existing installation.
2. Hang the fixture on QDH hanger hinge.
3. Swing the fixture up, latch the J-Bolt to the hanger, and secure the ballast assembly with the captive wing nut. Hand tighten the wing nut only without the use of a tool.
4. Make all supply wire connections in accordance with all local electrical codes.

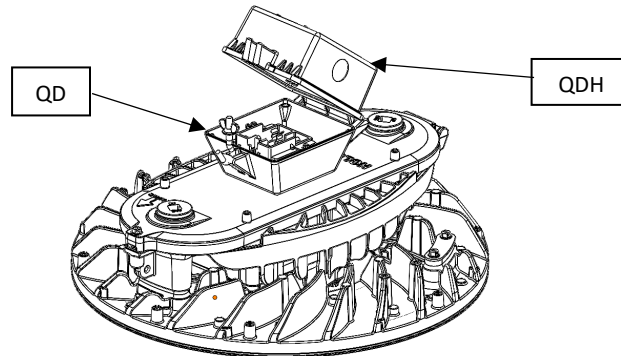


Figure 3.5.1: QD Mount and QD Hanger

3.6 Installation – Suspended Mount

1. If using the AC120, AC240, ACSS120, or ACSS240 (aircraft cable options), hook the latches through the holes of the suspended mounting brackets shown in Figure 3.6.1.
2. Secure the other end of the aircraft cable to a structure using hardware rated for the load. Contact factory or agency for areas that have vibration, overhead cranes and/or high velocity.

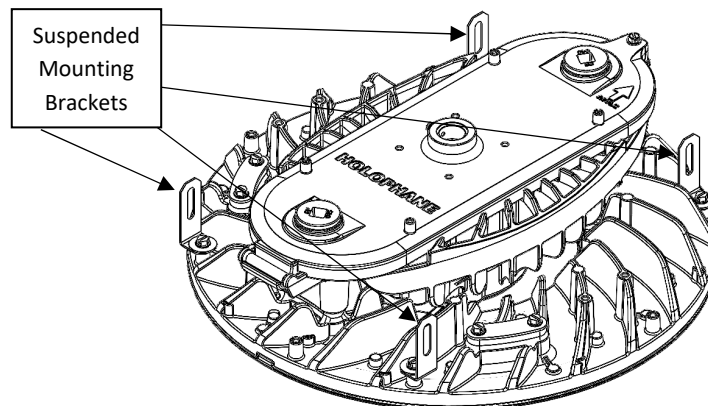


Figure 3.6.1: Aircraft Cable Mounting Option

3.7 Installation – Crane Mount

1. Use three ½" bolts and nuts (not included) to secure luminaire to structure. Tighten ½" hardware to 45-55 ft-lbs.
2. Proceed to section 3.8 for installation of remote driver housing.

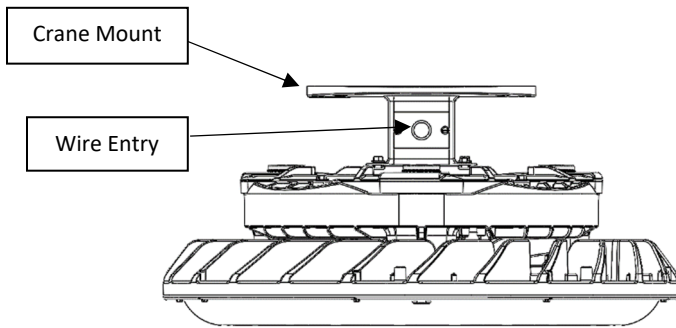


Figure 3.7.1: HOLO2 with Crane Mount

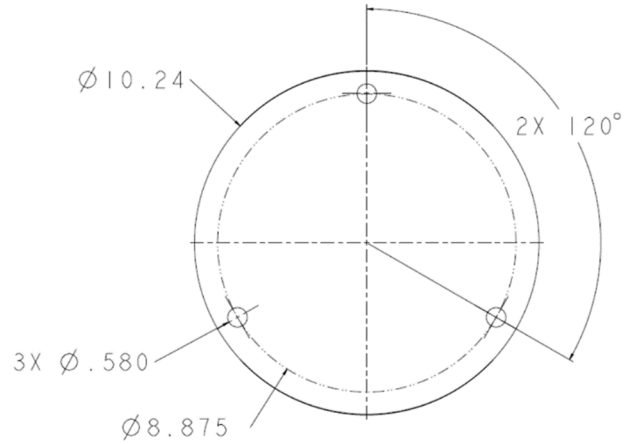


Figure 3.7.2: Crane mounting fastener pattern

3.8 Installation – Remote Driver Housing

3.8.1 Remote Housing Hook Mounting

1. Mounting hook (shipped separately) is installed via the threaded hole at the top of the Remote Housing junction box.
2. Apply sealant evenly to threads of the hook assembly.
3. Thread hook tightly into top of remote housing junction box.
4. Wipe away excess adhesive.
5. Hang the Electrical Housing on a structure that is properly sized and attached to support the weight of the Electrical Housing
6. Tighten screw into hook threads to 25-35 ft lbs.
7. Proceed to section 3.8.3 for wiring.

3.8.2 Remote Housing Surface Mounting

1. Mount Electrical Housing to vertical or horizontal surface that can support the weight of the Electrical Housing. If mounted vertically, orient Electrical Housing with hook on top.
2. Mount Remote Housing using fasteners properly sized to support the weight of the Electrical Housing (fasteners not provided).

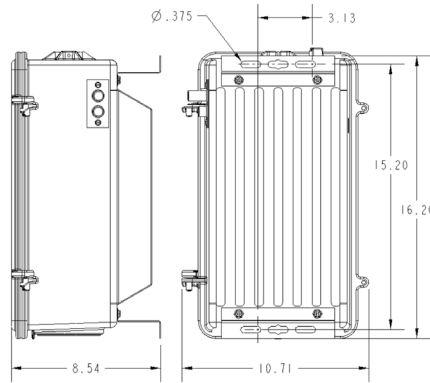


Figure 3.8.2: Remote Housing Surface Mount Positions

3.8.3 Electrical Connection of Optical Housing to Remote Driver Housing

1. Determine length of conduit/supply wires needed to connect the Electrical Housing to the Optical Housing pendant conduit. Be sure to maintain a minimum length of 5 feet to ensure required minimum mounting distance between Optical and Electrical Housings. Maximum lengths are based on wire gage and can be found in Table 3.8.
2. Attach conduit or feed wire through the 3/4" NPT knockouts on the bottom of the Electrical Housing.
3. Feed wires at the other end of the conduit into customer provided outlet box or pendant conduit stem.
4. Do not pull supply leads beyond 6 inches or Electrical Housing wire connections could be pinched or damaged.

WIRE GAGE	MAX. LENGTH (FEET)
18 AWG	70
16 AWG	120
14 AWG & larger	15

Table 3.8: Maximum Supply Lead Length for Remote Housing

3.8.4 Supply and Flex Conduit Wiring

1. Open electrical door by loosening (4) door screws enough to lift door off keyhole slots. Rotate 180 degrees and hang off (2) of the door screws previously loosened.
2. Provide and install supply wiring through top entry of Remote Driver Housing and make wiring connections in accordance with all local electrical codes.
3. For Flex Conduit wiring, remove (1) KO from end opposite the 3/4" NPT feature. Insert flex conduit fitting into KO until it snaps in place. Connect green lead to ground lead provided. Connect red and blue leads to Driver 1 red and blue leads. When provided, connect red/white and blue/white leads to Driver 2 red and blue leads.
4. Reinstall door and tighten door screws, ensuring all leads are completely inside enclosure and not pinched.
5. Energize power to the fixture and check for proper operation.

3.9 Installation – Safety Chain Option

1. If using the SCKSSX Option, the safety chain will be secured to a bracket on the LED heatsink. Secure the other end of the safety chain to a structure using hardware rated for the load.

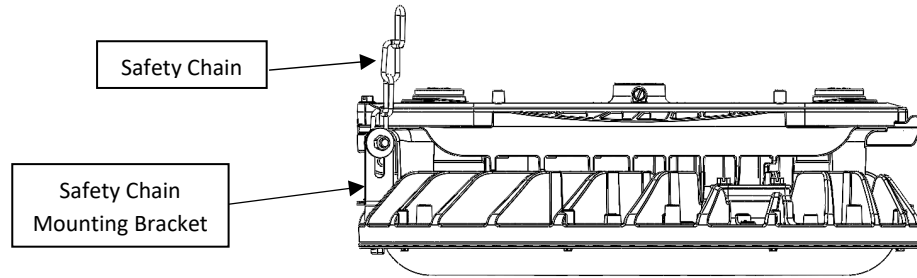


Figure 3.9.1: Safety Chain Mounting

3.10 Installation – Wiring Backup Batteries

1. Install fixture based on specified mounting instructions.
2. 7 Watt batteries are internal to the fixture's driver housing. 18 Watt batteries are installed in the remote driver housing. 20 Watt and 30 Watt batteries are external to the fixture and connected via junction box.
3. Input wires will be located outside of the pendant mount feature. Connect un-switched power to fixture wires labeled un-switched. Connect un-switched power to white, black, and green wires. Supply wire must meet applicable electrical codes and be rated for minimum of 90°C. Purple and pink leads are 0-10V (Low Voltage leads).
4. For the 7 Watt battery option, remove the driver housing lid fasteners. For the 18 Watt battery option, remove the remote housing door fasteners.
5. Connect the black indicator light connector to the battery. Connect wires and push the wires back inside the housing.
6. Push the indicator light for testing.

3.11 Installation – Twin Arm Accessory

1. This optional mounting accessory is a twin arm mount that is intended to support 2 HOLOBAY pendant mount fixtures.
2. Remove twin arm top covers. (See figure 13.11.1)
3. To attach fixtures to twin arm, feed fixture cords thru twin arm nipples. Thread fixtures onto twin arm nipples, minimum 6 turns, until tight. (See figure 13.11.2)
4. Tighten set screws to 25-35 in-lb. (See figure 13.11.2) **WARNING FAILURE TO TIGHTEN SET SCREW COULD CAUSE FIXTURE TO FALL RESULTING IN INJURY, DEATH OR SERIOUS PROPERTY DAMAGE.**
5. Connect fixture provided cords to supply wiring provided by others. Ensure twin arm is grounded using lead provided.
6. Re-attach twin arm covers. Slide twin arm mounting bracket until fixture weights are balanced. (See figure 13.11.1) **WARNING FAILURE TO INSTALL TWIN ARM COVERS COULD CAUSE FIXTURE TO FALL RESULTING IN INJURY, DEATH OR SERIOUS PROPERTY DAMAGE**
7. Install twin arm assembly by means of 3/4" NPT hook or loop only. Attached hook or loop to twin arm mount bracket, minimum 5 turns, until tight. Fixture must be mounted to a suitable structure capable of supporting the full weight of the luminaire in accordance with local codes.
8. Tighten twin arm set screw to 25-35 in-lb. See figure (See figure 13.11.1).

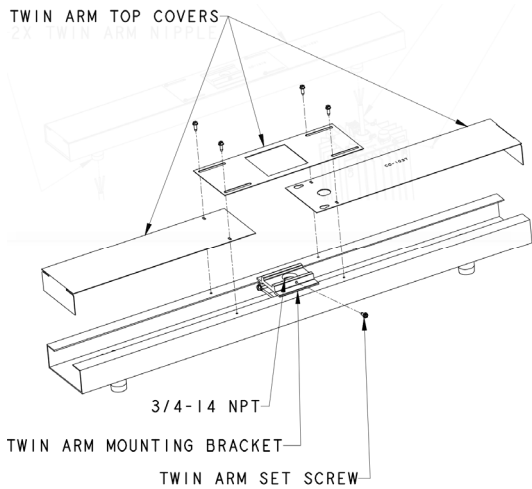


Figure 13.11.1: Twin Arm Exploded View

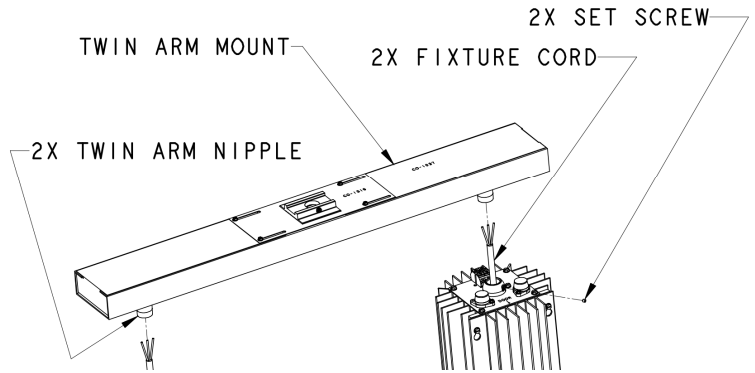


Figure 13.11.2 Twin Arm Fixture Mounting and Wiring

3.12 Installation – Wall Mount Arm Accessory

1. First, Mount the Arm Accessory. The Wall Mount Arm Accessory is a separate arm that can be purchased to mount universal mount HOLOBAY luminaires.
 - a. There is a Single Wall Mount Arm for one luminaire. The arm shall be installed horizontally such that the luminaire points down toward the ground or points up toward the sky. (See Figure 13.12.1)
 - b. There is a Double Wall Mount Arm for two luminaires. Mount the arm horizontally. One luminaire will point down toward the ground and the second luminaire will point up toward the sky. (See Figure 13.12.1)
2. Disconnect power to arm location.
3. Provide and install a suitable mounting structure that supports the full weight of the Wall Mount Arm (15 lbs) and up to two luminaires in accordance with local codes.
4. Install the single or double arm onto the mounting structure. Installer shall provide suitable 3/8" diameter fasteners to mount the arm to the mounting structure. See Figures 13.12-3 & 13.12.4 for mounting dimensions.
5. Route supply wires into the side entries of the arm and into the arm wiring chamber. (See Figure 13.12.2)
6. Make appropriate supply and ground connections to the arm wires in accordance with local codes

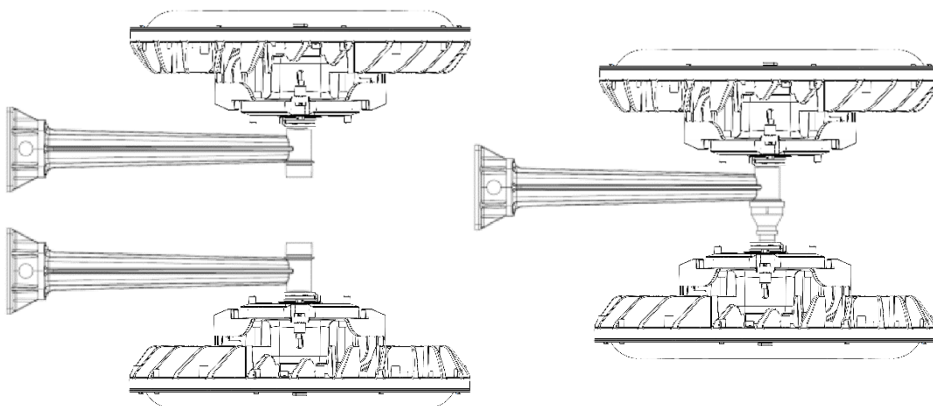


Figure 3.12.1: Wall Mount Arm Configurations

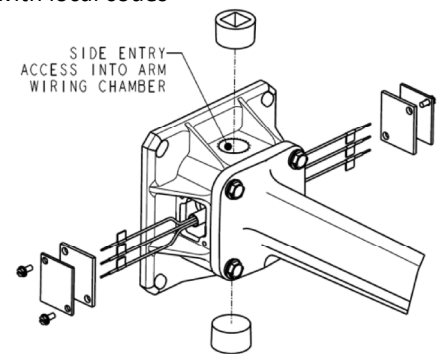
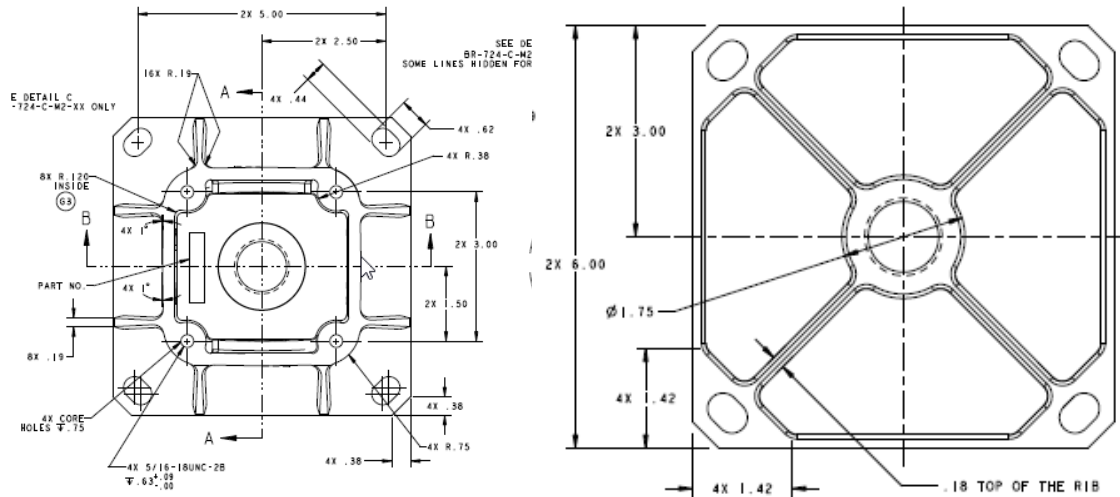


Figure 3.12.2: Wall Mount Arm Wiring



Figures 3.12.3 & 3.12.4: Dimensions for Wall Mount Arm Bracket & Mounting Points

4. Adjustment

4.1 Yoke adjustment

1. Using a 3/4" socket, loosen the angle adjustment bolts until the yoke arm bracket can be rotated.
2. Rotate the arm to the desired angle.
3. Tighten both angle adjustment bolts.

4.2 Adjustable output (AO)

1. The AO device is mounted on the inside of the sensor plate cover on the bottom of the fixture. Start by removing the three 1/4-20 screws with a 3/8" socket.
2. Use a flathead screwdriver to adjust the output of the luminaire via the AO device.
3. Taking care not to pinch any wires, replace the sensor plate cover and fasten the three 1/4-20 screws to the driver housing, torque to 70-85 in-lbs.

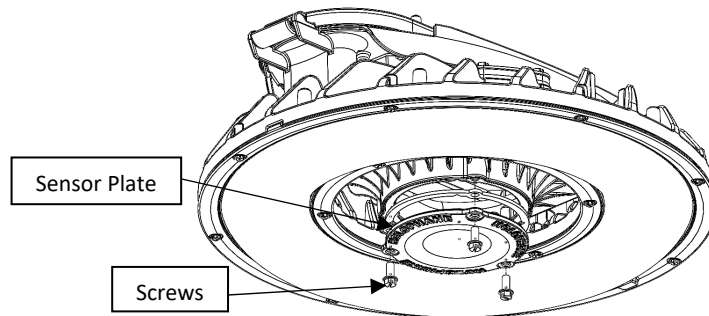


Figure 4.2.1: Sensor Plate Removal

5. Servicing

1. Clean fixture as needed. Check all mounting hardware is secured.
2. After installation, wear protective gloves if the lens needs to be removed.

5.1 Driver replacement

1. Disconnect **ALL** power to the luminaire before service. Read LED safety instructions on Page 1.
2. To access the driver, remove the 1/4-20 screws securing the driver housing lid to the driver housing (1 screw on HOLO1, 2 screws on HOLO1 HA & HOLO2).
3. Tag wiring before removing the bad driver. Use 1/4" socket to remove the screws holding the driver. For HOLO1 first remove the screws holding the driver bracket, and then remove the screws attaching the driver to the driver bracket.
4. Install new driver in the same location. Follow wiring diagram on driver.
5. Use only UL listed 90°C (or greater) wiring and connectors. Make sure to push all wiring back into the driver housing before closing the driver door. Do not let wiring get caught outside the two assemblies. Tighten the 1/4-20 screw(s) for the driver housing lid to 70-85 in-lbs.

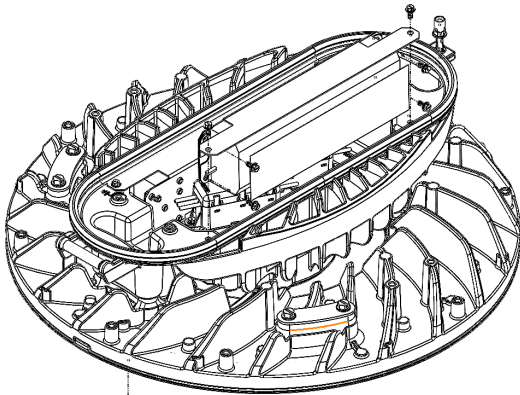


Figure 5.1.1: HOLO1 Driver Replacement

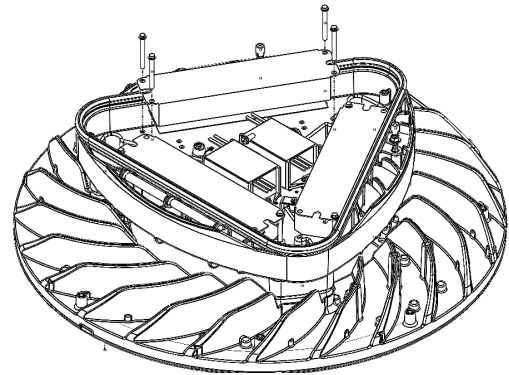


Figure 5.1.2 HOLO2 Driver Replacement

5.2 Sensor Replacement

*Some sensors require AUX drivers. If you are replacing standard drivers with AUX drivers refer to section 5.1

5.2.1 Standard sensor replacement

1. Disconnect **ALL** power to the luminaire before service. Read LED safety instructions on Page 1.
2. Remove the three 1/4-20 screws that attach the sensor cover plate to the driver housing (see Figure 4.2.1).
3. If replacing an existing sensor, disconnect the old sensor wires.
4. Connect replacement sensor wires to driver wires.
5. Replace the sensor cover plate and tighten the three screws to 70-85 in-lbs.

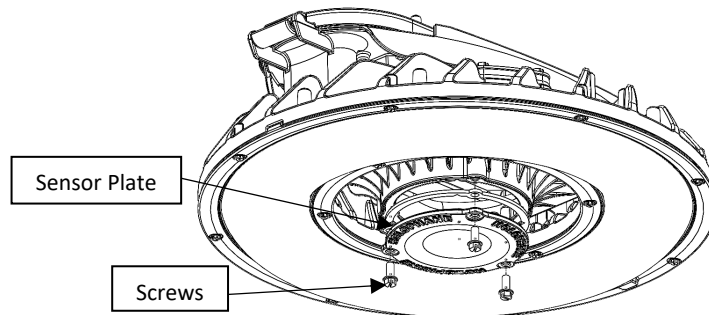


Figure 5.2.1: Sensor Plate Removal

5.2.2 KO mounted sensor replacement

1. Disconnect **ALL** power to the luminaire before service. Read LED safety instructions on Page 1.
2. To access the KO mounted sensor wires, remove the 1/4-20 screws securing the driver housing lid to the driver housing (1 screw on HOLO1, 2 screws on HOLO1 HA & HOLO2).
3. Tag relevant wires and disconnect the sensor.
4. Unscrew the sensor from the 3/4" NPT threaded hole.
5. Feed the wires from the new sensor into the 3/4" NPT hole and screw the new sensor in. Do not cross the threads.
6. Connect the new sensor wires. Use only UL listed 90°C (or greater) wiring and connectors. Make sure to push all wiring back into the driver housing before closing the driver door. Do not let wiring get caught outside the two assemblies. Tighten the 1/4-20 screw(s) for the driver housing lid to 70-85 in-lbs.

5.3 Surge Protection Device (SPD) Replacement

1. Disconnect **ALL** power to the luminaire before service. Read LED safety instructions on Page 1.
2. To access the SPD, remove the 1/4-20 screws securing the driver housing lid to the driver housing (1 screw on HOLO1, 2 screws on HOLO1 HA & HOLO2).
3. Tag wiring and disconnect SPD wires.
4. Remove the two #8 screws attaching the SPD to the bracket.
5. Attach the new SPD to the bracket and connect the SPD wires the same way the old SPD was connected.
6. Use only UL listed 90°C (or greater) wiring and connectors. Make sure to push all wiring back into the driver housing before closing the driver door. Do not let wiring get caught outside the two assemblies. Tighten the 1/4-20 screw(s) for the driver housing lid to 70-85 in-lbs.

5.4 Optic Replacement

1. Disconnect **ALL** power to the luminaire before service. Read LED safety instructions on Page 1.
2. To remove the optic, remove the fourteen #10 screws that attach the two compression rings to the LED heatsink.
3. Remove the old optic. Be careful when handling glass.
4. Ensure the surface on the LED heatsink that contacts the optic gasket is clear of debris. Place the new optic, take care to align the indexing feature on the optic with the indexing feature on the outer compression ring.
5. Replace the fourteen #10 screws. Tighten to 40-50 in-lbs.

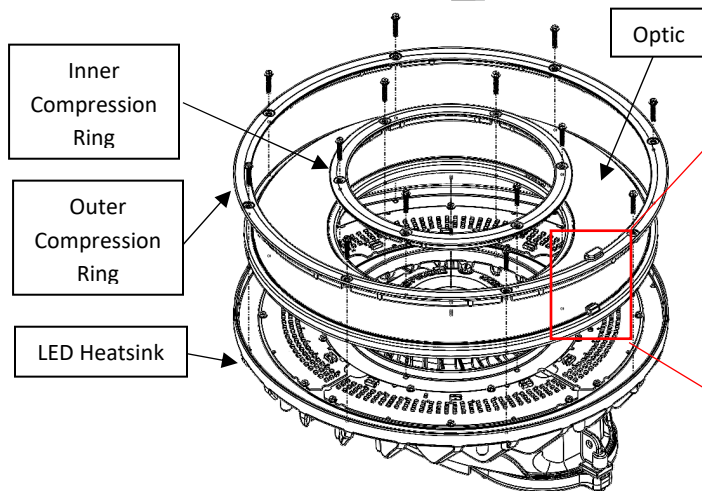


Figure 5.4.1 Optical Assembly

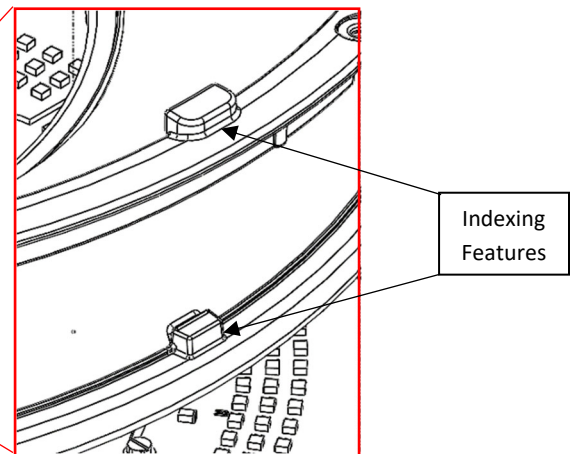


Figure 5.4.2 Optical Indexing Features,
Optic + Outer Compression Ring

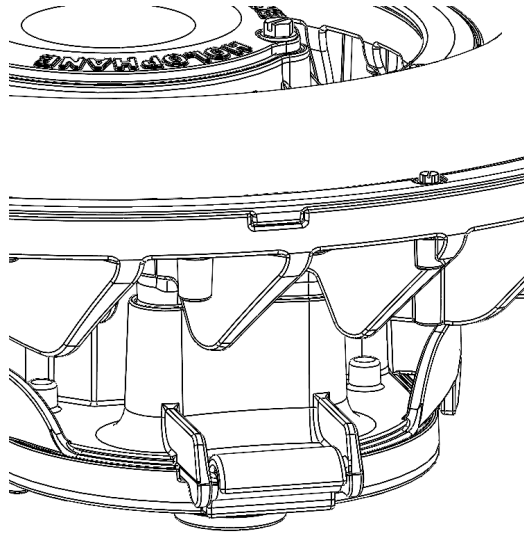


Figure 5.4.3 Optical Indexing Features, LED Heatsink + Outer Compression Ring