



# LED Important Safety Instructions

## 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](http://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.

**Always read the fixtures complete installation instructions prior to installation for any additional fixture specific warnings. Please see product specific installation instructions for additional warnings or any applicable FCC or other regulatory statements.**

**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](http://www.acuitybrands.com).**

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## 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. 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.

**Always read the fixtures complete installation instructions prior to installation for any additional fixture specific warnings. Please see product specific installation instructions for additional warnings or any applicable FCC or other regulatory statements.**

**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](http://www.acuitybrands.com).**

Aculux®	Distech Controls™	Healthcare Lighting®	Juno®	nLight®
AEL®	DTL®	Holophane®	Lithonia Lighting®	Peerless®
aLight	eldoLED®	Hydrel®	Luminaire LED	Reloc®
Atrius®	Euerka	Indy™	Luminis®	Sensor Switch®
Cyclone	Gotham®	IOTA®	Mark Architectural Lighting™	Sunoptics®

**Acuity Brands Lighting, Inc. assumes no responsibility for claims arising out of improper or careless installation or handling of its products.**

DOCUMENT OUTLINES THE WIRE INSTRUCTIONS FOR 57VDC DCHUB EQUIPPED LUMINAIRE.

MAKE ELECTRICAL CONNECTIONS:

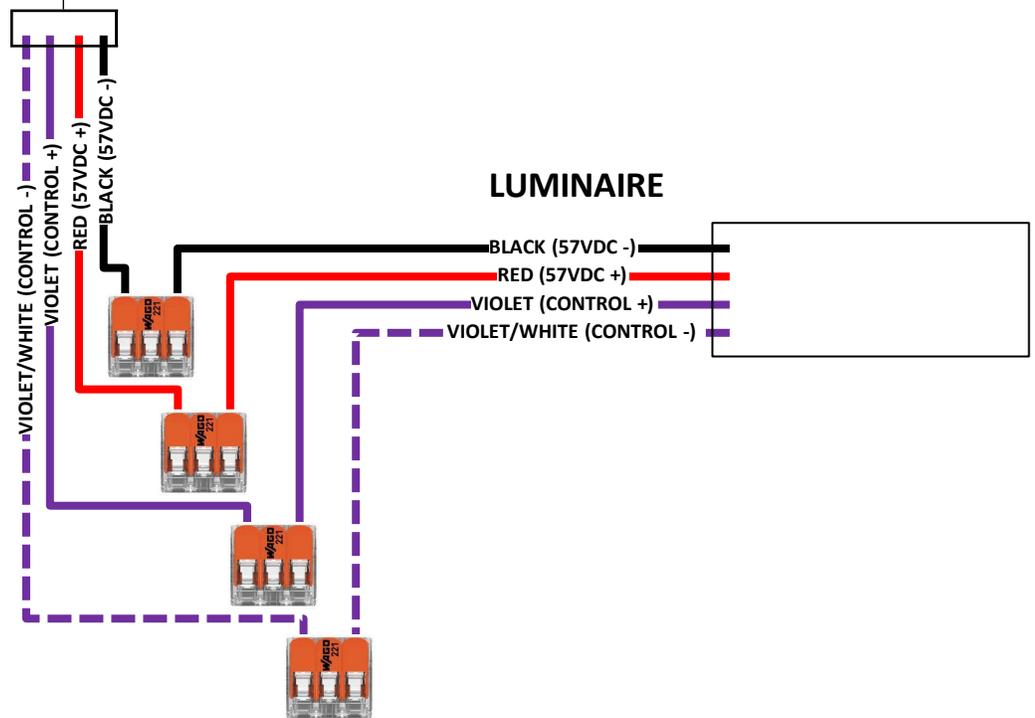
- IN ACCORDANCE WITH NEC CLASS 2 REQUIREMENTS AND ALL LOCAL CODES.
- ONLY TO LISTED CLASS 2 POWER SUPPLY GREATER THAN 52VDC AND LESS THAN 57VDC.
- IN A DAISY CHAINED MANNER NOT EXCEEDING OUTPUT VA OF POWER SUPPLY PORTS.
- TO PORTS AS SPECIFIED ON PROJECT DOCUMENTATION AND/OR DRAWINGS FROM ACUITY BRANDS.
- USING 16 AWG MINIMUM FOR UP TO 100' RUN.

LUMINAIRE IS PROVIDED WITH (4) INDIVIDUAL CONDUCTORS FOR OFFBOARD CONTROL, OR (2) CONDUCTORS WHEN EMBEDDED nLight AIR CONTROL IS INCLUDED WITHIN THE LUMINAIRE. RUN (2) OR (4) CONDUCTOR CABLE (BY OTHERS) FROM THE POWER SUPPLY TO THE LUMINAIRE AND WIRE AS INDICATED BELOW. USE PROVIDED 3-WAY WAGO TO CHAIN ADDITIONAL TO A SINGLE POWER SUPPLY PORT WITHIN THE OUTPUT POWER LIMITS OF THE PORT.

DIRECT LUMINAIRE CONNECTION DETAILS

- RED: 57VDC +
- BLACK: 57VDC -
- \* VIOLET: CONTROL +
- \* VIOLET/WHITE: CONTROL -

SUGGESTED FIELD WIRING COLORS



\* NOT PROVIDED WITH EMBEDDED nLight AIR CONTROLLED FIXTURES.

TESTING AND TROUBLESHOOTING

- PRIOR TO COMMISSIONING, FIXTURES WILL BE ON FULL BRIGHTNESS WHEN 57VDC IS APPLIED TO THEIR INPUT, REGARDLESS OF CONTROL SETTING.
- 52VDC OR GREATER SHOULD BE PRESENT ACROSS RED AND BLACK LEADS ON END OF RUN FIXTURE.
- GREATER THAN 12VDC AND LESS THAN 24VDC MUST BE PRESENT ACROSS VIOLET AND VIOLET/WHITE LEADS AT EACH FIXTURE.
- WHEN CONNECTED TO AN ACUITY DCHUB FLASHING AT 1 CYCLE PER SECOND INDICATES A HUB PORT OVERLOAD.
- NO CONTROL VOLTAGE INDICATES A SHORT OR OPEN ON THE CONTROL CIRCUIT.
- NO DC VOLTAGE INDICATES A SHORT OR OPEN ON THE POWER CIRCUIT.

# HLER Exam room

## INSTALLATION INSTRUCTIONS

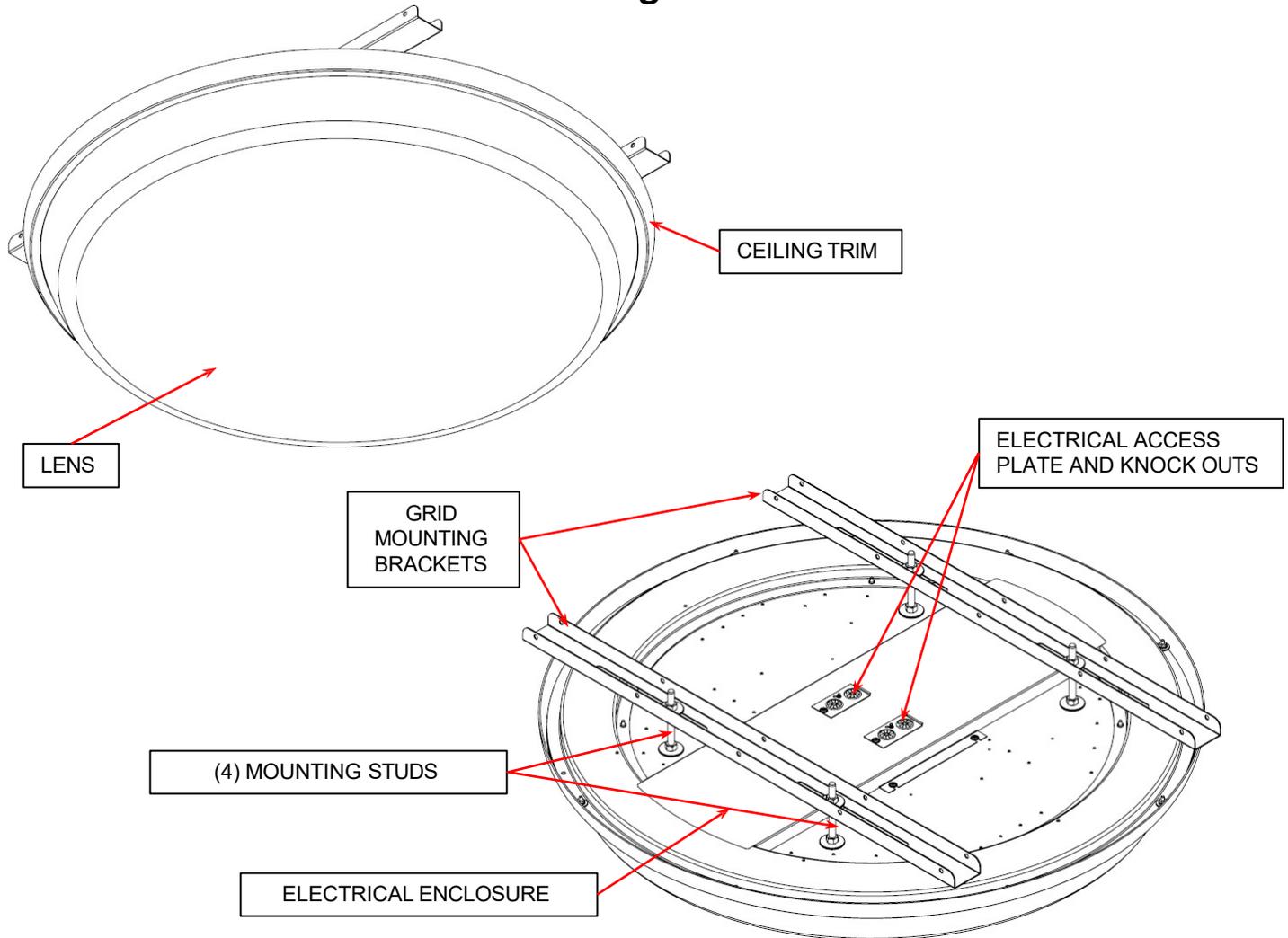
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REV. B

2/21/2025

A. General Identification.....	Page 4
B. Grid Ceiling Install.....	Pages 5 – 6
C. Wiring.....	Pages 7 - 10

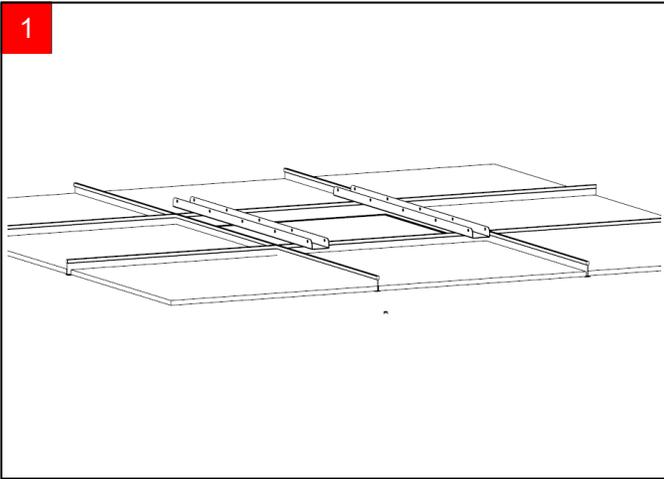
### A. General Identification of Grid Ceiling HLER Luminaire



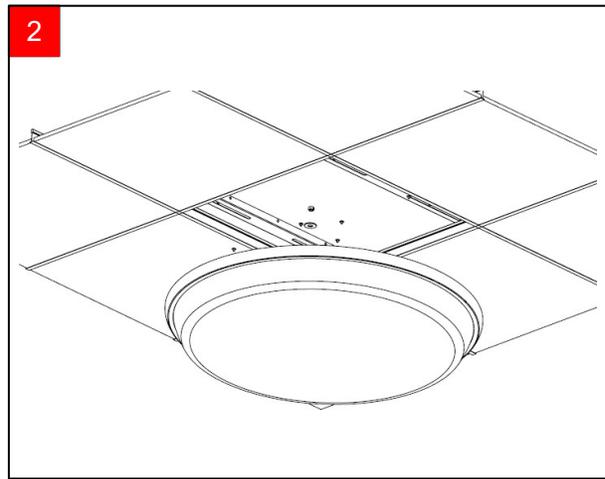
One Lithonia Way, Conyers, GA 30012 • Tel: 800-705-SERV (7378) • Website: <https://acuitybrands.com/>

**IMPORTANT:** Wear cotton gloves AND lift and handle the luminaire from the ends to avoid damaging or soiling the lens surface. Should the lens surface become smudged or otherwise blemished, clean using only a soft, microfiber cotton cloth.

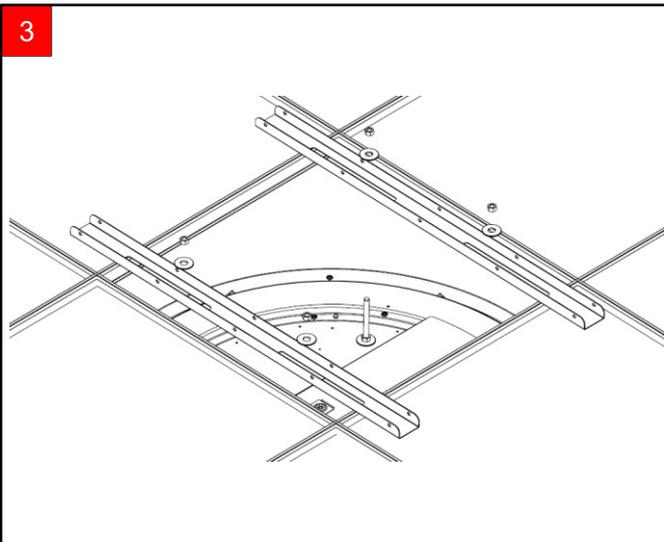
## B. Grid Ceiling Install



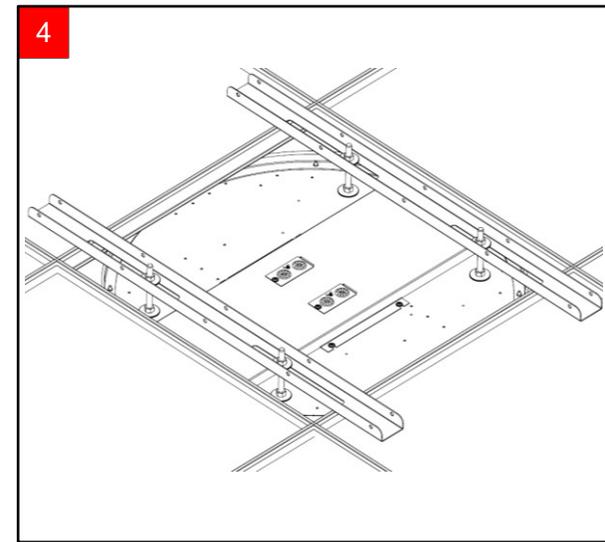
**1**  
Place mounting brackets on top of grid ceiling. Tie off to structure above as required by local and NEC requirements



**2**  
Align (4) mounting studs with slots in mounting bracket and push fixture flush to ceiling

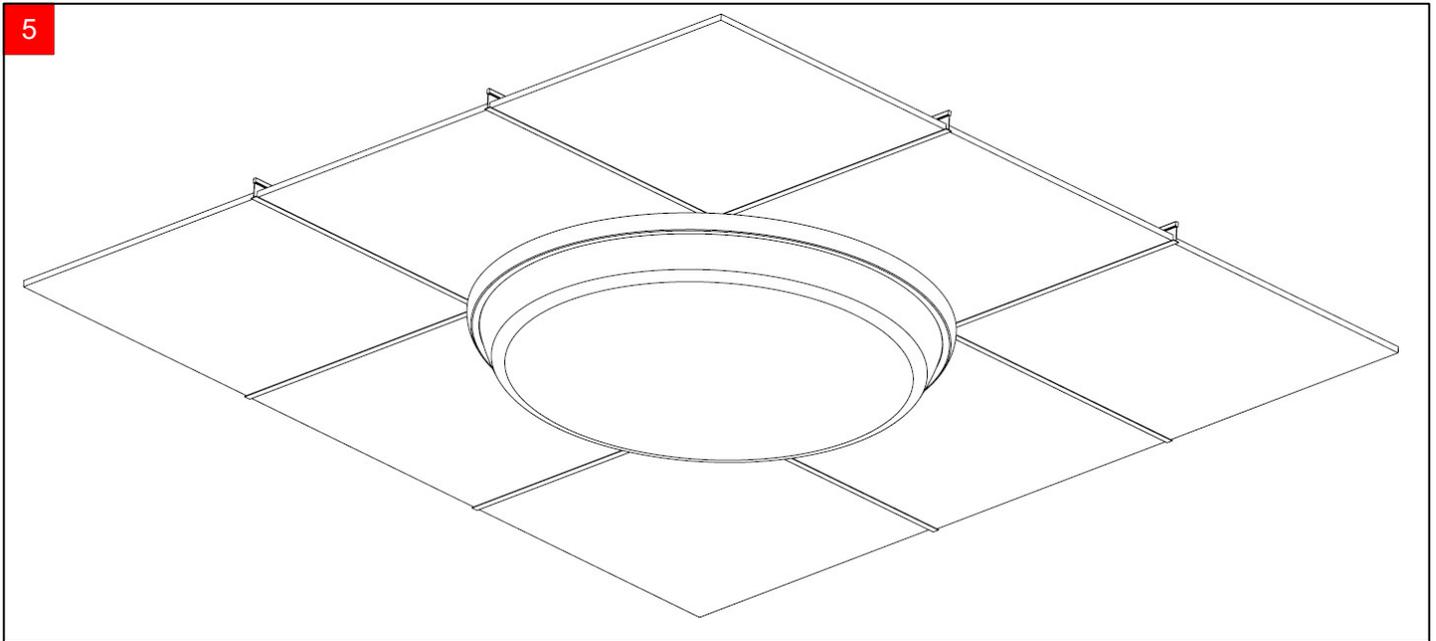


**3**  
Install fender washer and finger tighten nut onto mounting studs



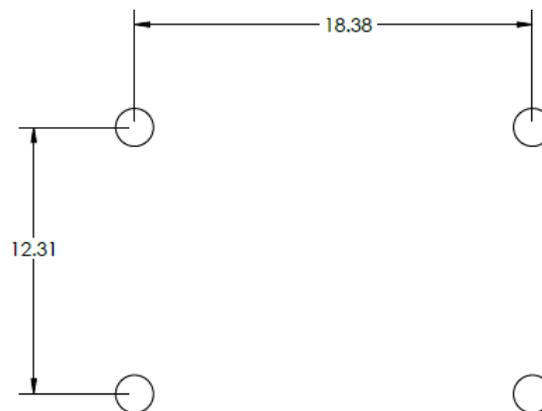
**4**  
Tighten (4) 3/8-16 nuts using 9/16" wrench.

## B. Grid Ceiling Install

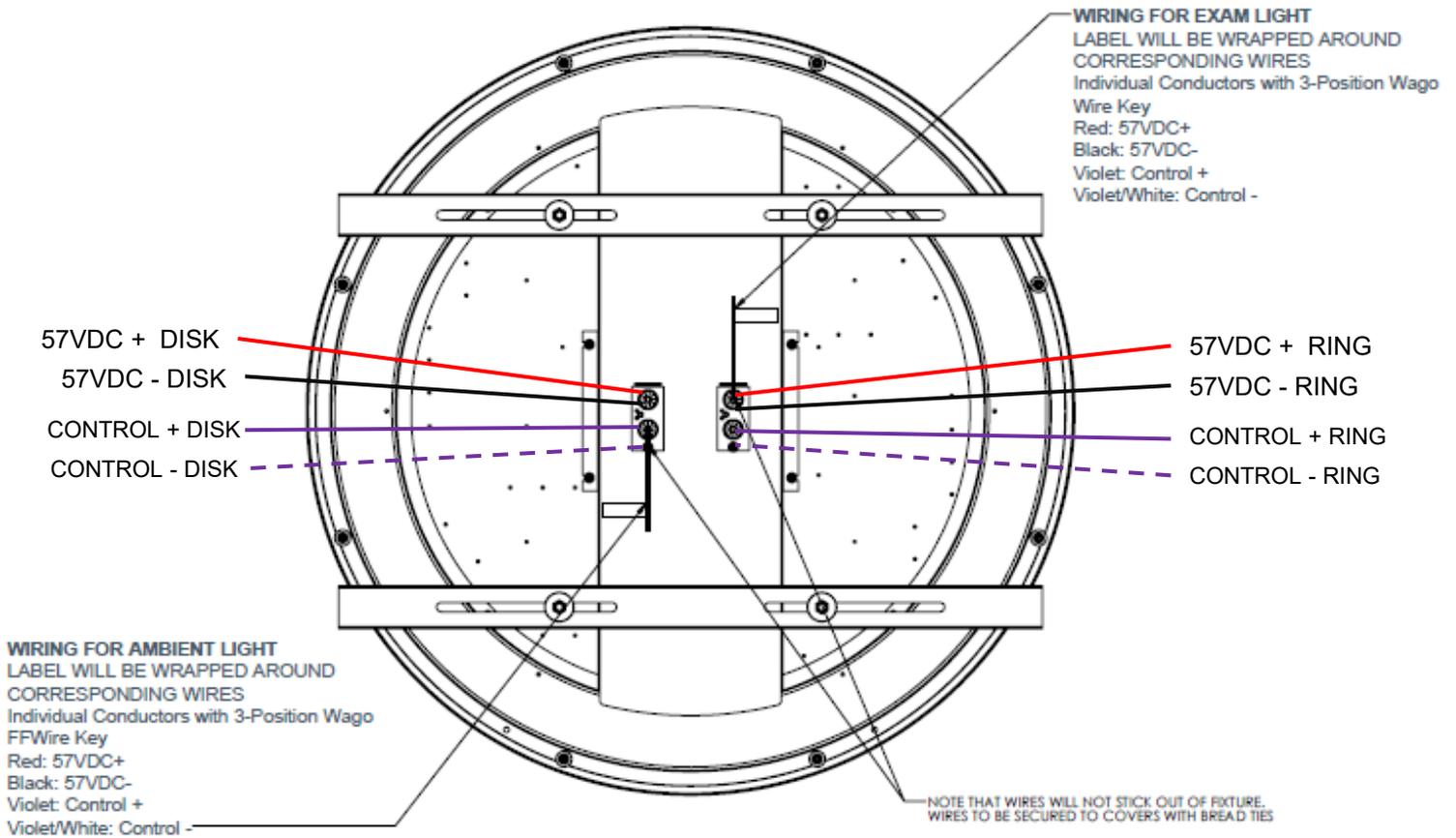


Once installed make wiring connection per local and national electric code

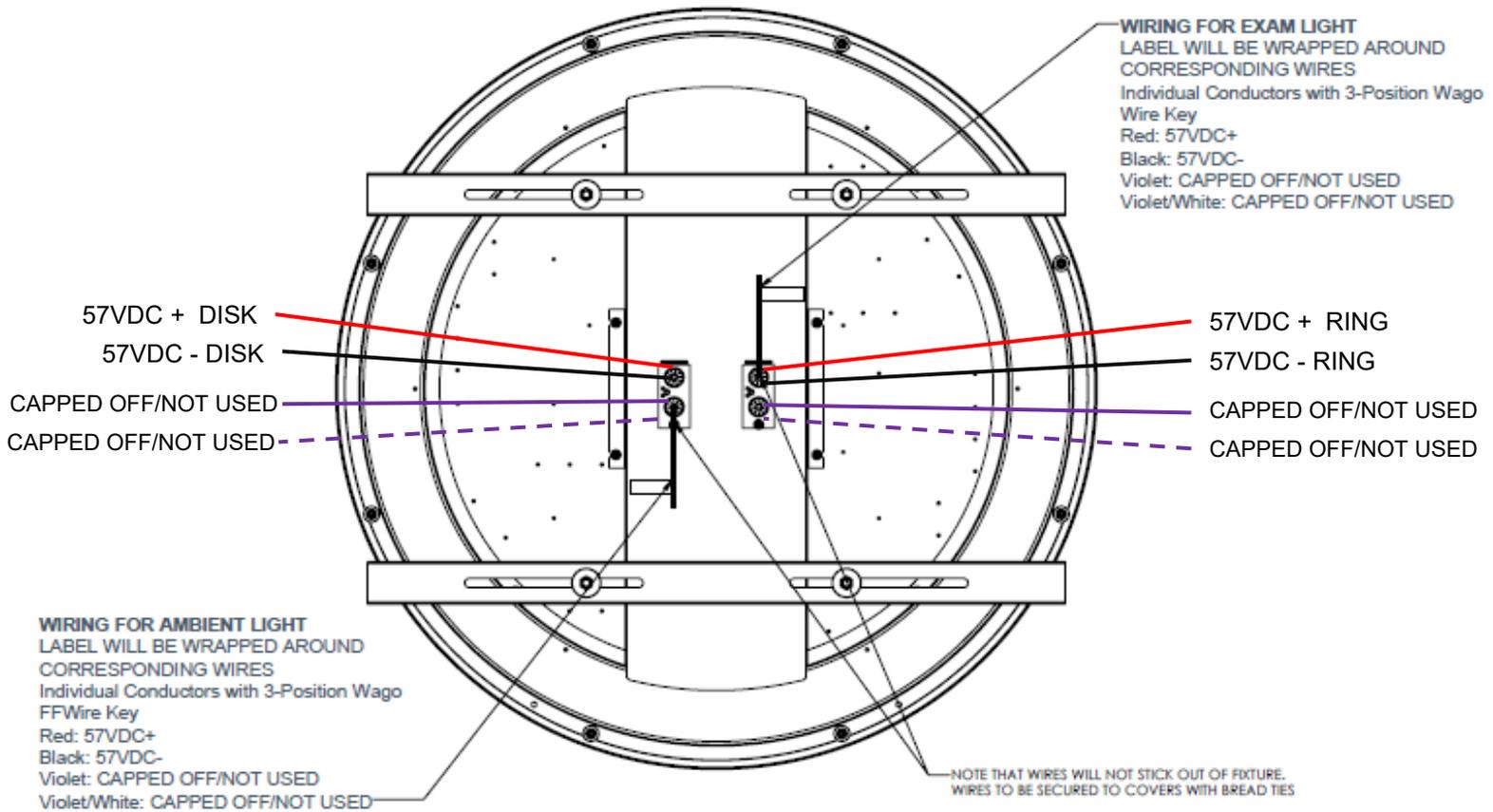
**Mounting stud dimension  
If installer must cut holes into ceiling tiles**



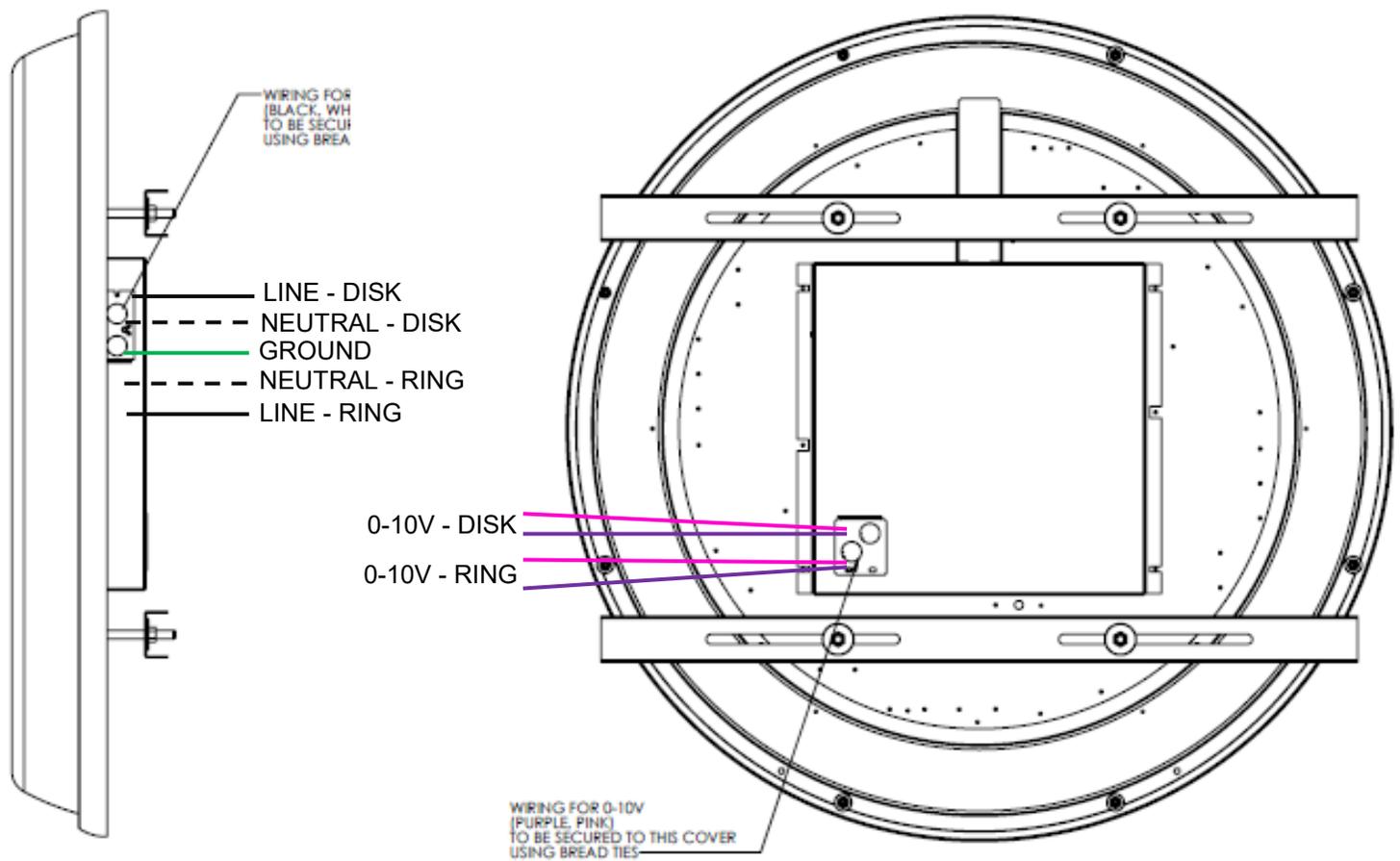
## C. Wiring 57vDC (DCHUB or Dali)



### C. Wiring 57vDC – NLTair2



## C. Wiring 120/277vAC – ZT



### C. Wiring 120/277vAC – nLIGHT wired

