

# INSTRUCTION SHEET

# 4R/6R

## Application

This fixture is designed for use within a Covered Ceiling and Non-IC Applications. Ensure insulation is not closer than 3" to any side of the fixture and is not installed above the fixture.

## Pre-Assembly of Fixture Housing - In most applications, these steps will be performed prior to the fixture arriving at the jobsite.

1. Install insert into frame using 4 pem studs. Throat of the insert should be facing downward. Use (4) wing nuts to tighten to frame.
2. Install Driver Box to Frame. The incoming side of the driver box can be identified by the 2 conduits. These include the power wires (black and white) and control wires (purple and grey). Install these conduits into the pre-removed knock outs on the side of the jbox, with the control wires using the top knock out. The conduit with the control wires should be installed even if no control function will be used. Ensure the purple and grey wires are properly capped if not in use.
3. Install Driver Box to Frame. After the conduit is installed, securely mount the driver box to the frame as shown in the diagram.
4. Install Light Engine. Connect the light engine to the single conduit coming from the driver box. The 3000K or 4000K color temperature can be selected by choosing to connect the appropriately labeled quick connect from the light engine, leaving the other disconnected. Connecting both quick connects will yield 3500K. After connection, place metal cap onto light engine, aligning with two pem studs. Secure with thumb screws. Care should be taken to protect the LED's and secure the light engine to the frame to prevent damage until the fixture is installed and the reflector is in place.

## Install Fixture Housing into T-Grid Ceiling

1. Cut appropriately sized hole into the ceiling material for the throat of the fixture to pass thru.
2. Extend the bar hangers (included) until they reach just beyond the T-Bar so that the top of the T-Bar rests inside the notch on the bottom of the bar hanger. Care should be taken to ensure alignment with the hole in the ceiling material. Secure bar hangers to T-bar with wire ties.
3. Holes are provided on the fixture frame to tie the fixture to the building structure.
4. The frame may slide on the bar hangers as needed to align with the hole in the ceiling material. This may be locked in place by tightening the set screw as shown.
5. The fixture should be adjusted vertically so that the bottom of the fixture throat is even or slightly above the bottom of the ceiling material. Adjustment can be made by loosening the wing nuts on the inside of the bar hanger assembly. Re-Tighten the Wing Nuts once the fixture is positioned properly.
6. Remove knockouts on jbox to feed power supply and control wires to fixtures. Supply wire must meet applicable electrical codes and be rated for a minimum of 90°C. Junction box is thru wire rated for 2 in 2 out.
7. Complete the necessary wiring, and reinstall the jbox doors. All wiring should be completed by qualified personnel in compliance of all National Electric Codes
8. Fixture is suitable for 120 to 277 volt input. Please verify the label of fixture before wiring fixture to field wires. By connecting to the AC line, connect "L" to the black color wire and the wire "N" to the white Color wire in the Jbox correctly. Connect the input ground wire with the bare copper wire in the Jbox.

## Install the frame into wooden joists

**Note:** Check specification sheet for dimensions of housing against joist spacing before installation as the fixture will not fit in joist applications with 16inch centers.

1. Use the steps 1, 3 - 8 as described in the "installation within a T-Grid Ceiling" section.
2. Extend the bar hangers until they full reach the wooden joist. Align the bottom of the bar hanger end with the bottom of the joist. Secure the bar hanger to the joist thru the provided holes by using an appropriately sized nail or screw.

## Install the Reflector

**Note:** The Reflector ships separately from the housing.

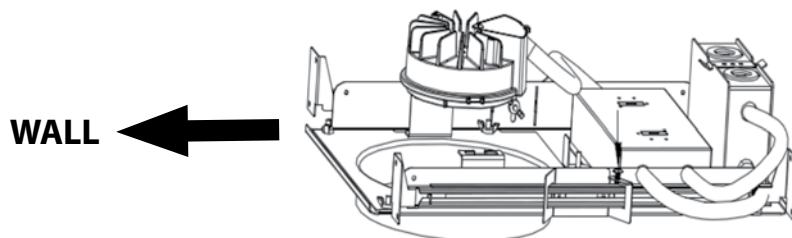
1. The reflector should be installed from below the ceiling plane. It is recommended to do this after the ceiling has been painted if applicable.
2. Gently pull the light engine thru the throat of the fixture. Align the springs on top of the reflector with the notches on the light engine and snap the reflector into
3. Install the reflector/light engine assembly into the ceiling by squeezing together the two legs of the installation springs on both sides of the reflector. Install the springs into the corresponding mounting bracket inside the throat of the aperture. Once the springs are engaged into the bracket, gently push the reflector upwards to the ceiling until flush.

# INSTRUCTION SHEET

# 4R/6R

## Wall Wash Applications

**Housing Installation:** For wall wash applications, the housing should be installed so that it is orientated lengthwise towards the wall to be illuminated, with the jbox away from the wall.



**Reflector Installation:** The wall wash reflector should be installed so that the angled lens is oriented towards the wall that is to be illuminated.



## WARNINGS

### READ AND FOLLOW ALL SAFETY INSTRUCTIONS! SAVE THESE INSTRUCTIONS AND DELIVER TO OWNER AREA 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 retractor/lens. Frequency of cleaning will depend on ambient dirt level and minimum light output which is acceptable to user. Retractor/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 retractor/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 Helios 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.
- Never connect an LED product to an unapproved dimmer pack. Contact HL directly for any dimmers not specifically recommended for the product.
- Unless individual product specifications deem otherwise: 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: Maximum ambient temperature is 90°C. Do not operate fixture at temperatures higher than this.
- Unless individual product specifications deem otherwise: Never mount in places where fixture will be exposed to rain, high humidity, extreme temperature changes or restricted ventilation.
- 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.
- There are no user serviceable parts inside the unit. Do not rewire, reconfigure, or modify the unit or attempt any repairs yourself. Additionally, field replacement of the LED assembly or lamps is not allowed by UL standards at this time. In the unlikely event your unit may require service, stop using the unit immediately and contact an HL representative.

All luminaires that contain electronic devices that generate frequencies above 9kHz from any component within the luminaire comply with one of the following 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.

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

© 2019 Helios Lighting • All Rights Reserved • For more information visit our website: [www.heliosltg.com](http://www.heliosltg.com)

May 28, 2019 9:12 PM

**HELIOS**  
LIGHTING