

# INSTRUCTION SHEET

Model Numbers: RLxV Series Recessed Downlights (example: RL8V-30-27-60-L010-NC-1)  
Architectural LED Recessed Housings for New Construction applications.



**WARNING:** Before starting to work with the electrical supply wires, verify that this circuit's power has been disconnected by switching off its Circuit Breaker or removing its fuse from the fuse panel. The use of a wall switch to turn off the circuit is and not sufficient to prevent an electrical shock. The Luminaire must be connected to supply wire rated for 90C. This product is to be installed by a qualified electrician.

**CAUTION:** Ceiling insulation must be kept a minimum of 3" away from the sides of the pieces that make up this unit. Insulation is not allowed to contact the top. In addition the unit must maintain a minimum clearance of 1/2" away from all combustible materials such as adjacent wooden ceiling joists and sub-flooring or roofing above. These factors should be taken into consideration when locating this fixture.

## IMPORTANT BASIC INSTALLATION STEPS

**Note:** These instructions cover new construction installation. There will be slight variations to these instructions depending on ceiling type. Exact look of the recessed downlight luminaire will vary depending on model. Wear soft clean gloves while installing Trim piece to prevent finger prints and scratches on reflector. Wet location trim must be used near showers and bathtubs. Exterior (outdoors) locations must be well protected from insects, water, and high heat. Wet location trim must be used when mounting a downlight outdoors. Bug intrusion and excessive dust buildup can overheat LED downlight and may lead to early product failure. Ideally, seal trim with latex based sealant to keep bugs out. Swimming pool vapor (chlorine) and sea side vapor (salt) will lead to corrosion of the fixture.

### 1. Installing Ceiling Frame or IC Housing (aka Rough-in):

Prior to finished ceiling being completed, install frame into ceiling cavity using adjustable Bat-Wing Brackets, supported by 1/2" EMT (supplied by electrician) or Hanger Bars (optional, purchased separately through QuantaLight). Squeeze Bat-Wing brackets to insert EMT/Hanger Bars through the cutouts on both ends of the brackets. Depending on the Hanger Bar style chosen do one of the following: Rest EMT/Hanger Bars on top of T-bar supports of ceiling system (C-Channel Hanger Bars are notched to insert over T-bar). Secure C-Channel by bending very end inwards to clamp T-Bar and then use 14AWG wire to secure to T-bar ceiling grid. Secure EMT tightly by using 14AWG wire inserted through holes in T-bar and then twisting wire. For Wood Joist style hanger bar, nail hanger bar onto wood joist.

### 2. Height Adjustment:

With the RLxV series, if needed use the Step Slots to adjust for ceiling thickness by removing and replacing the three step slot springs. Fine leveling adjustments are possible by moving the position of both Bat-Wing Brackets. To do this loosen the Wing Nuts and adjust the level of the bottom edge of adapter ring so it is flush with the finished side of ceiling. Tighten Wing-Nuts when done.

### 3. Wiring:

Open the junction box and make electrical connections as needed per the wiring diagram and in accordance with local codes or N.E.C. Use an appropriate method suitable for the size, type, and number of wires at each connection. Remove a knockout from the edge of the junction box and attach a strain relief to the supply conduit/cable. Ground the luminaire in the junction box using green wire provided. Connect Common (white) and Hot (black) leads. The use of the dimming leads is optional (read below). If not using low-voltage dimming, cap the leads. When all wiring is completed, carefully push wires into junction box, and then screw the cover closed.

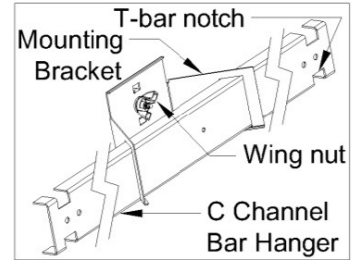
#### Dimming

Depending on what type of dimming option was ordered, the driver may be dimmed on the 120V line (the LELV option) by using a LED rated ELV dimmer, or for much better performance by using the low-voltage 0-10V leads (the L010 option). Note that a 0-10V dimmer and additional wiring is required when using 0-10V dimming. Other drivers are also available and may have been ordered, so if dimming please look at the driver closely to determine the dimming protocol and wire accordingly. If not using 0-10V type dimming, cap the 0-10V low-voltage leads.

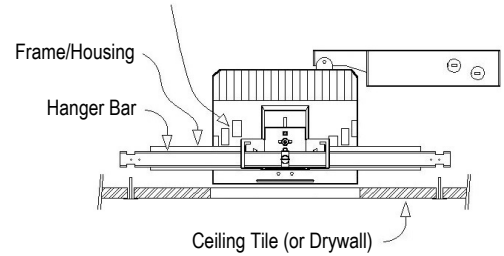
#### Maintenance

**CLEANING:** For cleaning the trim piece, wait until the fixture has cooled, then use a clean and soft cotton cloth. If needed, the cloth can be dampened with water (not dripping). Never use cleaning solutions (ammonia, alcohol, and other similar products) as these can damage the plastic trims and the vapor from such cleaners can damage the LED chips. Heat sinks can be cleaned by vacuuming (when fixture is off and has cooled). Never touch the LED chip.

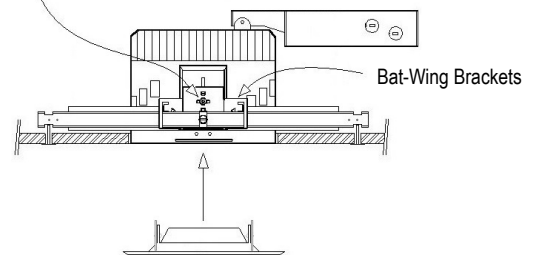
If ever needed, the RLV downlight series can be accessed from above or below the ceiling. The "Can" assembly (aka Lens+LED+Driver) can be detached from the housing pan and slid out from below the ceiling (as long as the installer provided a long enough electric whip). To remove, detach the three spring retaining clips from the step slots inside the Can, then gently pull out the Can and Driver assembly.



Step slots for ceiling thickness adjustments.



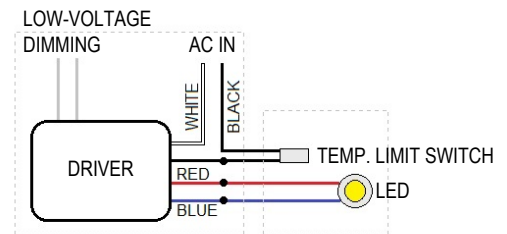
Wing Nuts for fine leveling adjustments.



Flanged Trim installs into fixture housing by integral leaf springs.

## TYPICAL WIRING SCHEMATIC

USE OF OPTIONAL 0-10V DIMMING LEADS: If you have a 0-10V dimming driver you can choose to use the 0-10V dimming, or not dim at all. The 0-10V dimming leads cannot be connected to AC line! Cap 0-10V leads if not used. A different dimming protocol option may have been ordered, so please look at driver to determine proper wiring.



#### Maintenance (removal of Can assembly)

