

# LED COMMERCIAL MODULE

## INSTALL INSTRUCTIONS



**PLEASE FIND A QUALIFIED ELECTRICIAN FOR INSTALLATION.** Please read and understand this entire manual and all product labels before attempting to assemble, operate or install the product.

### WARNING: RISK OF FIRE OR ELECTRICAL SHOCK

- LED Retrofit Kit installation requires knowledge of luminaires electrical systems. Installation should be performed only by a qualified electrician in accordance with the national electric code (NEC) and all applicable federal, state and local electric codes and safety standards.
- Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings.
- To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
- INSTALLATION SHOULD ONLY BE PERFORMED AFTER POWER TO THE FIXTURE HAS BEEN DISCONNECTED.
- THIS RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION.
- Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- 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 and 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.
- Turn off electrical power at fuse or circuit breaker box before wiring fixture to the power supply.
- Turn off the power when you perform any maintenance.
- Verify that supply voltage is correct by comparing it with the luminaire label information.
- All wiring connections should be capped with UL approved wire connectors.
- The recessed luminaire is intended for mounting only in a covered ceiling where only the LED side of the luminaire will be exposed to damp or dry locations.



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### TOOLS REQUIRED *(Not included)*



Gloves



Safety Glasses



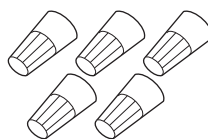
Ladder



Wire Cutter



Wire Stripper



Wire Connectors

#### MODULE KIT INCLUDES

LED Module Engine	1 ea.
Install Instructions	1 ea.

*Reflector and New Construction Pan, sold separately.*

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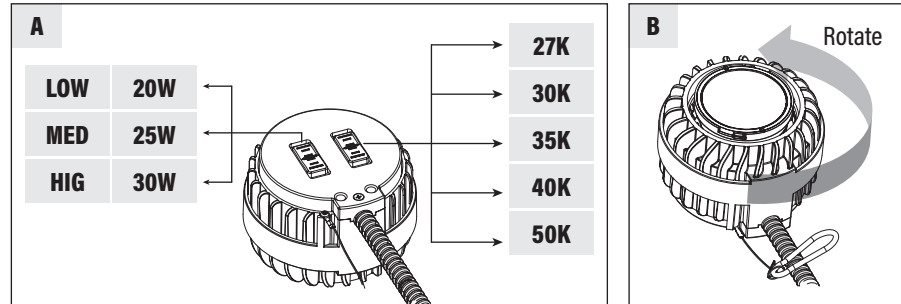
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### SPEC-SELECT™ FIXTURES - FIELD ADJUSTABLE WATTAGE, CCT & BEAM ANGLE

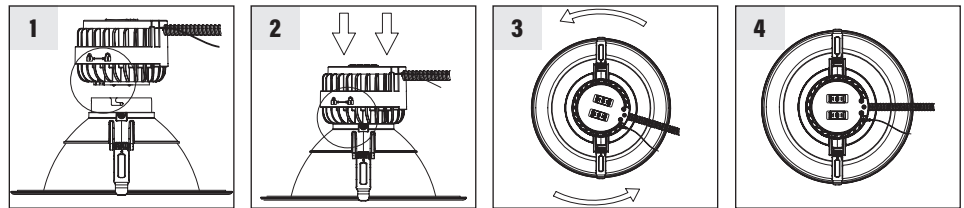
- The end users may adjust the color temperature and lumen output, respectively, by the two slide switches on the back for the LED module engine. The left slide switch controls the wattage, and the right slide switch allows for CCT color selection. (Fig. A)
- Beam angle can be adjusted from 25°-45° by rotating the area around the lens of the module. (Fig. B)



### INSTALL REFLECTOR ONTO LED MODULE

(Reflector sold separately)

- Align the notch of the Reflector Kit with the "unlock" position of the LED module engine.
- Push the Reflector Kit down.
- Turn the Reflector Kit counterclockwise to align the notch with the locked position.
- Finished.



	Item #	Reflector Size	Cut-Out Dimensions	LED Module Engine & Reflector Dimensions
	92107	6"	6.3" - 7.01"	8.46" DIA x 5.97" H
	92110	8"	7.87" - 8.74"	10.28" DIA x 6.76" H
	92113	10"	8.66" - 9.96"	11.81" DIA x 7.25" H

### ELECTRICAL CONNECTIONS

- Connect BLACK (line) driver lead to voltage supply LINE position (HOT).
- Connect driver WHITE lead to the NEUTRAL supply position.
- Connect the GREEN ground lead to the supply GROUND lead.

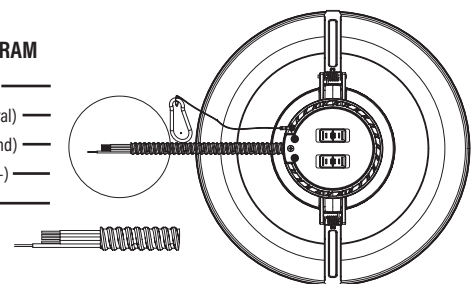
### 0-10V DIMMING CONNECTION

- Connect PURPLE lead to supply POSITIVE (+) dimming lead.
- Connect GRAY lead to the supply NEGATIVE (-) dimming lead.

**If NOT Using 0-10V Dimming:** Cap 0-10V driver dimmer leads separately if unused. Failure to do so may cause flickering lights, premature failure, and void warranty.

### GENERAL WIRING DIAGRAM

- TO SOURCE 120-277V
- Black (Line)
  - White (Neutral)
  - Green (Ground)
  - Purple (Dim+)
  - Gray (Dim-)



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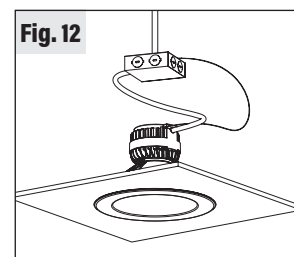
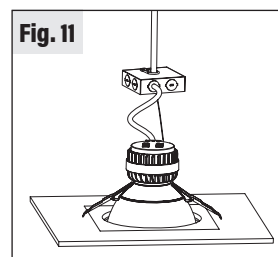
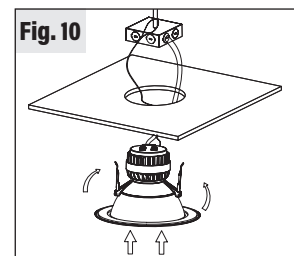
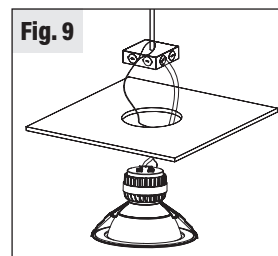
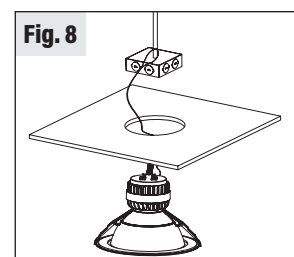
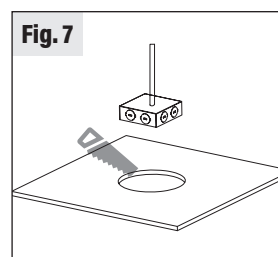
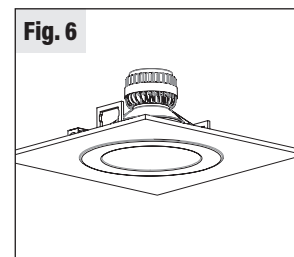
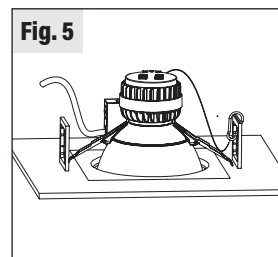
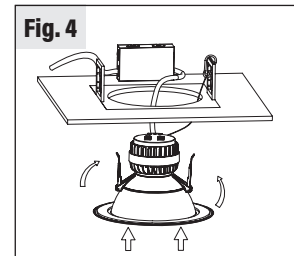
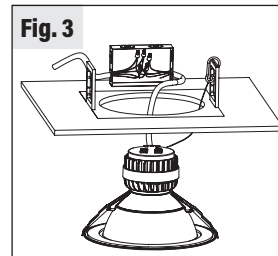
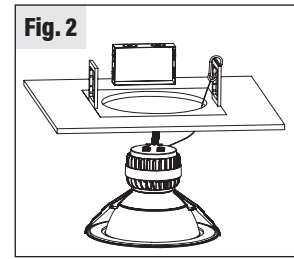
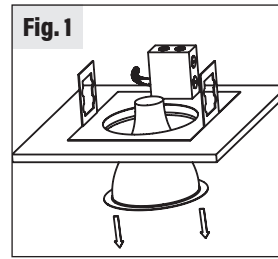
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### RETROFIT INSTALLATION

1. Remove existing lamp and reflector. If existing trim or can are present, remove from the ceiling or move it out of the way. Make sure to retain existing rough-in kit components. (Fig. 1)
2. Measure the ceiling opening and ensure the edge of the downlight retrofit will cover the entire hole and sit firmly in the ceiling. (Fig. 2)
3. Attach the carabiner safety lanyard to the existing fixture housing. (Fig. 3)
4. Remove the junction box faceplate. Disconnect wiring to existing ballast. Remove appropriate knock out on junction box. (Fig. 4)
5. Connect incoming power to fixture input leads; insert the downlight conduit into the J-box and wire to the power source. See electrical connection on Page 2. Reattach the J-box cover when done. (Ground the overall system in accordance with NEC and local codes). (Fig. 5)
6. Bend the spring clips upward so they are in an upright and insert downlight into hole in the ceiling / housing. (Fig. 6)
7. Once downlight is inside the ceiling and housing, release the spring clips and push the fixture up into the ceiling until securely seated and flush with the ceiling (Rotating the downlight may be necessary to properly engage the spring clips and ensure a secure fit). (Fig. 7)
8. Restore power, installation is complete. (Fig. 8)



### NEW CONSTRUCTION INSTALLATION *(New construction pan sold separately)*

1. If using a new construction pan, install it in the ceiling first.
2. If a new hole is needed, cut hole according to downlight cut-out dimension per table on page 2 for corresponding reflector size / item number. (Fig. 7)
3. Attach the carabiner safety lanyard to secure place inside the ceiling. (Fig. 8)
4. Remove the junction box faceplate. Disconnect wiring to existing ballast. Remove appropriate knock out on junction box.
5. Connect incoming power to fixture input leads; insert the downlight conduit into the J-box and wire to the power source. See electrical connection on Page 2. Reattach the J-box cover when done. (Ground the overall system in accordance with NEC and local codes). (Fig. 9)
6. Bend the spring clips upward so they are in an upright and insert downlight into hole in the ceiling / housing. (Fig. 10)
7. Once downlight is inside the ceiling and housing, release the spring clips and push the fixture up into the ceiling until securely seated and flush with the ceiling (Rotating the downlight may be necessary to properly engage the spring clips and ensure a secure fit). (Fig. 11)
8. Restore power, installation is complete. (Fig. 12)