

# Installation Instructions

## NCH3

### Sapphire III High Lumen New Construction Frame-In

**READ PRIOR TO ATTEMPTING INSTALLATION**  
**ALWAYS TURN OFF MAIN POWER BEFORE INSTALLATION**  
**INSTALLATION SHOULD BE CARRIED OUT BY YOUR LOCAL ELECTRICIAN**

**⚠ WARNING** - Risk of fire or electric shock. LED installation kit requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

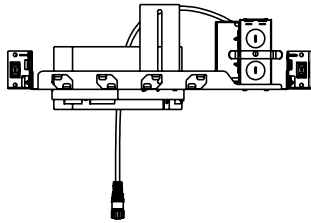
**⚠ WARNING** - Risk of fire or electric shock. Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and / or drawings and where the input rating does not exceed the input rating of the luminaire.

**⚠ WARNING** - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

**⚠ WARNING** - This equipment is intended to be installed only by qualified personnel. The installation must be made in accordance with the current edition to the National Electric Code and all applicable state and local building codes. The final installation must be approved by the appropriate qualified electrical/building inspector(s). Improper installation may result in a fire or electrical hazard. Be sure the electrical power to the circuit has been disconnected before installing this electrical system.

**⚠ AVERTISSEMENT** - Cet équipement est destiné à être installé uniquement par du personnel qualifié. L'installation doit être faite en conformité avec l'édition actuelle du Code national de l'électricité et toutes étatiques et locales codes du bâtiment applicables. L'installation finale doit être approuvée par l'inspecteur en électricité / bâtiment qualifié approprié(s). Une mauvaise installation peut entraîner un incendie ou un risque électrique. Soyez sûr de la puissance électrique vers le circuit a été coupée avant l'installation de ce système électrique.

#### PACKAGING CONTENTS

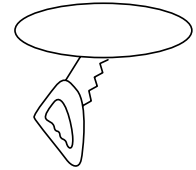


NCH3 Frame-In

#### CUTTING A HOLE

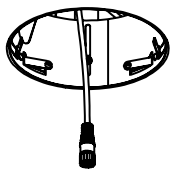
1. Locate the center of proposed opening on your tile or ceiling and mark it.
2. Use a compass to draw a circle in diameter around the center point. See chart for cut-out dimension.
3. Cut along this circular line.

Cut-out dimension	
NCH3-4	4- <sup>1</sup> / <sub>16</sub> "
NCH3-6	6- <sup>1</sup> / <sub>2</sub> "
NCH3-8	8- <sup>3</sup> / <sub>16</sub> "

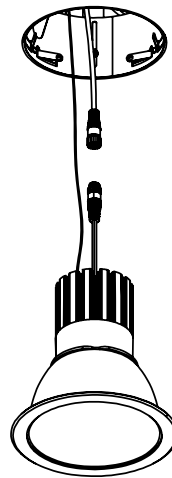


#### INSTALLATION INSTRUCTIONS

- 1** Install and secure housing to ceiling, connect line voltage wiring, and ensure that CL2 cable is hanging from ceiling opening.



- 2** Secure aircraft cable to housing and connect CL2 cable to housing.



- 3** Installation complete.



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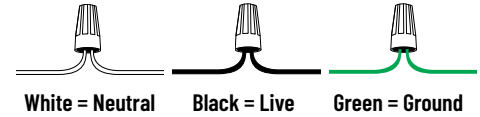
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#### ELECTRICAL CONNECTIONS:

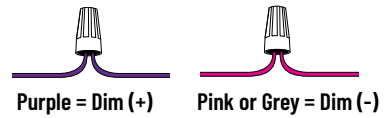
1. Connect ½ inch trade size steel conduit to junction box with appropriate fitting. If using Romex-type shielded wiring, use rectangular pry-out strain reliefs located on upper corners of junction box.
2. Connect wires accordingly:
  - Black (120/277V) = Supply Voltage
  - White = Neutral
  - Green or Copper Wire = Grounding Junction Box Wire**0-10V Wiring:**
  - Purple = Dim (+)
  - Pink or Grey = Dim (-)(Maximum of 8 no. 12 AWG through branch circuit conductors suitable for at least 90°C permitted in junction box. AC ONLY)

**NOTE ON GROUNDING:** Many structures carry grounding via steel conduit. If this is the case, if there is no grounding wire, simply leave green wire on fixture unattached. Fixture will be grounded through attachment of conduit to junction box. However, if Romex or PVC conduit is used, ground wire will always be present, and must be connected to green wire on fixture junction box to avoid electrical shock hazard.

#### 120/277V CONNECTION:



#### 0-10V DIMMING CONNECTION:



\* cap off 0-10V wires if dimming wires are not used \*

#### WIRING DIAGRAM (0-10V DIMMING)

