Installation Instructions
NCAH2
Sapphire II High Lumen New Construction Frame-In

**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.


### INSTALL REFLECTOR CLIPS

1. Install the three reflector clips onto the edge of the ceiling collar with the clips pointing toward the center of the opening.
2. The clips should be spaced 120° apart.

### MOUNTING OPTIONS

**UNIVERSAL MOUNTING BRACKET INSTALLATION**
Universal mounting brackets accept flat bar hangers, conduit or C channel. Mounting brackets can be adjusted vertically for different ceiling thickness and positioning.

**BAR HANGER INSTALLATION**
Two adjustable bar hangers with captive nails are included with each frame. Bar hangers are parallel to junction box, but can be repositioned 90° perpendicular to junction box if desired. L-shaped bar hanger foot aligns to bottom of construction joist. A T-Bar notch allows for easy installation in a suspended ceiling.

**IMPORTANT:** Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.
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**ELECTRICAL CONNECTIONS:**

1. Connect 1/2 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
   - 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.

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

120/277V CONNECTION:
- White = Neutral
- Black = Live
- Green = Ground

0-10V DIMMING CONNECTION:
- Purple = Dim (+)
- Pink or Grey = Dim (-)

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

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ALWAYS TURN OFF MAIN POWER BEFORE INSTALLATION
INSTALLATION SHOULD BE CARRIED OUT BY YOUR LOCAL ELECTRICIAN

REMOTE EMERGENCY CONNECTION (NEPK-07LEDUNV)

REMOTE EMERGENCY CONNECTION (PHILIPS BODINE BSL17C-C2)
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INTEGRAL EMERGENCY CONNECTION (NEPK-07LEDUNV-INT)

INTEGRAL EMERGENCY CONNECTION (PHILIPS BODINE BSL17C-C2-INT)