Installation Instructions
NHIOICD-4PS / NHIOICDCP-4PS
Iolite PLUS IC Air-Tight New Construction Housing for Square PLUS

Fixtures are listed for insulated ceilings—Type IC, airtight—AT and for suspended ceilings—Type S. To insure safe and reliable operations, make sure the fixture corresponds to the proper ceiling installation. Read the following material carefully before beginning installation. In general these instructions apply to “round” housings. Drawings of “round” housings have been used to illustrate installation procedures. Before attempting installation of any recessed lighting fixture check your local electrical code. This code sets the wiring standards for your locality and should be carefully studied before starting work. Install NHIOICD-4PS according to CECA and NEC code.

INSULATED CEILINGS - TYPE IC
Insulated Ceiling
The insulated ceiling or IC approved recessed fixture is one that can be installed in direct contact with insulation.

SUSPENDED CEILINGS - TYPE S
Fixture can be installed in suspended ceilings that are not permanent or insulated.

AIRTIGHT INSTALLATION
Nora housings certified under ASTM E283 are supplied with a pre-installed gasket or supplied with a ready-to-install self adhesive gasket.

1. Lay gasket flat and peel protective paper backing from gasket to expose adhesive side.
2. Apply supplied gasket to ceiling lip and wrap gasket around inside of housing to form seal of the ceiling opening or apply caulk per state/local code. When properly installed, Nora housings provide compliance with restricted air-flow regulations.

FIRE/ELECTRICAL HAZARD: INSTALL ACCORDING TO NATIONAL ELECTRIC CODE AND ANY APPLICABLE MUNICIPAL CODE REQUIREMENTS.
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.

For additional details, contact technical support at 800.686.6672.

FEU / RISQUE ÉLECTRIQUE: INSTALLER SELON AU CODE ÉLECTRIQUE NATIONAL ET LES EXIGENCES DE CODE MUNICIPAUX APPLICABLES.

IMPORTANT – RISK OF FIRE:
Most dwellings built before 1985 have supply wire rated 60°C (thermal cutoffs in fixtures operate at 90°C) consult a qualified electrician prior to installation. If supply wires are located within three inches of fixture, wire rated for at least 90°C. Contact technical support at 1-800-686-6672 for additional details.

IMPORTANT – RISQUE D‘INCENDIE:
La plupart des logements construits avant 1985 ont le fil d‘alimentation nominale de 60°C (disjoncteurs thermiques dans les appareils fonctionnent à 90°C); consultez un électricien qualifié avant l‘installation. Si les fils d‘alimentation sont situés à moins de trois pouces de l‘appareil, l‘utilisation de fil résister au moins à 90°C. Contactez le support technique au 1-800-686-6672 pour plus de détails.

WIRING DIAGRAM:
Refer to wiring diagram on page 2.

NOTE ON GROUNDING:
Many structures carry grounding via steel conduit. If this is the case, 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.

DRIVER REPLACEMENT:
1. Turn off power.
2. Pull the trimless down from the opening.
3. Disconnect the orange connector.
4. The driver can be removed by sliding it out from the snap-in bracket.
5. Remove driver from mounting bracket and replace with new driver.
6. Re-install driver/mounting bracket
7. Reconnect power wires.
8. Reconnect fixture into place.
9. Turn on fixture and make sure all connections are secure.

NOTE ON LED MODULE:
DO NOT USE WITH NIO-LED89 AND NIO-LED109 SERIES, USE ONLY WITH NIO-LEDH SERIES.
**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.

**Wiring Diagram (0-10V Dimming)**

LE4: Triac, ELV or 0-10V

**Wiring Diagram (Lutron Ecosystem)**

LUPEQ: Lutron Hi-Lume Premier 0.1% EcoSystem
LUPEQ1: Lutron Hi-Lume 1% EcoSystem

**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

Connector 1
TO DRIVER INPUT

Connector 2
TO DRIVER OUTPUT

Connector 3
TO LED LOAD INPUT

LED DRIVER

LED EMERGENCY BATTERY

CONVERTER CONNECTOR

TEST SWITCH LED INDICATOR

CONNECTOR 1
WHITE / RED
WHITE
BLACK (COMMON)
Connector 1 TO DRIVER INPUT

CONNECTOR 2
LED EMERGENCY BATTERY
BLUE
CONNECTOR 2 TO DRIVER OUTPUT

CONNECTOR 3
LED EMERGENCY BATTERY
ORANGE
YELLOW
CONNECTOR 3 TO LED LOAD INPUT

UNSWITCHED HOT
SWITCH (OPTIONAL)

WHITE / BLUE
WHITE
WHITE / RED

CONNECTOR 1
UNSWITCHED HOT

WHITE
BLACK
Common

CONNECTOR 2
WHITE / BLUE
WHITE

CONNECTOR 3
WHITE / RED
RED (+)

LED INDICATOR

FLEX A
FLEX B

WHITE / BLACK

WHITE / BLACK

CONNECTOR 1
CONNECTOR 2
CONNECTOR 3

Blue (+)
Orange (-)
Yellow (+)

PurpLe (dim +)
Pink or grey (dim -)

0-10v Dimming

White / Red

White / Black

White / Black

White / Black
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EMERGENCY CONNECTION WITH LUTRON ECO-SYSTEM (NEPK-07LEDUNV)

** LED EMERGENCY BATTERY ORDERED SEPARATELY **
Install battery in the field per NEPK-07LEDUNV instructions

CONNECTOR 1
TO DRIVER INPUT

CONNECTOR 2
TO DRIVER OUTPUT

CONNECTOR 3
TO LED LOAD INPUT