

NHIOICD-16 / NHIOICDCP-16

1" Iolite IC Air-Tight New Construction Housing

Source: 9W or 10W LED

600lm

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

New construction housing for use in insulated ceilings can be in direct contact with insulation. Air-tight construction provides energy savings by reducing the flow of air through the ceiling. Patented design allows for easy, tool-less removal of the driver.

SPECIFICATION

Housing: 0.040" Aluminum shallow housing can be installed in 1/2" ceiling thickness, an extension collar ([NIO-1EXTC2](#)) is available for ceiling thickness up to 2".

Patented Driver Assembly: Allows driver to slide out of housing without tools from the room side.

Air Flow Restriction: Meets requirements of Air-Tight (AT) <2CFM (cubic feet per minute) in accordance with ASTM-283 Air-Tight requirements.

Clearance: "IC" Insulated ceiling housings are direct contact rated. Not to be used in direct contact with spray foam insulation.

Bar Hangers: Two 13-3/4" to 24-1/2" adjustable bar hangers with captive nails are included on housing. Bar hangers are parallel to junction box, but can be repositioned 90° perpendicular to junction box if desired. "L"-shaped bar hanger foot to align to bottom of construction joist. A T-bar notch allows for easy installation in a suspended ceiling.

Junction Box: Pre-wired 25 cubic inch 0.064" thick galvanized steel, with seven 1/2" knockouts, four Romex® pryouts, and snap on covers. All leads are #18AWG wire, the ground wire is connected to the bottom, and quick connectors are supplied on all leads. Maximum of 8 no. 12 AWG through branch circuit conductors suitable for at least 90°C permitted in junction box. **Access above ceiling required** (use [remodel housing](#) and [frame-in](#) for access from room side)

| ELECTRICAL | LE3 | LE4 |
|------------------------|-------------|---------------------|
| Input Voltage | 120V | 120-277V |
| Input Power | 9W | 10W |
| Power Factor | ≥0.90 | |
| Dimming | Triac / ELV | Triac / ELV / 0-10V |
| Operating Temp. | 40°C max. | |

COMPATIBLE TRIMS & MONOPOINTS

| CATALOG NO. | DESCRIPTION |
|---------------------------|-----------------------------------|
| NIOB-1RNB | 1" Round Bullnose (BWF) |
| NIOB-1SNB | 1" Square Bullnose (BWF) |
| NIOB-1RNG | 1" Round Straight Regress (BWF) |
| NIOB-1SNG | 1" Square Straight Regress (BWF) |
| NIOB-1RPH | 1" Round Pinhole (BWF) |
| NIOB-1RSL | 1" Round Adj. Slot Aperture (BWF) |
| NIO-1RNB | 1" Round Bullnose (NTF) |
| NIO-1SNB | 1" Square Bullnose (NTF) |
| NIO-1RNG | 1" Round Straight Regress (NTF) |
| NIO-1SNG | 1" Square Straight Regress (NTF) |
| NIOB-1RCY | 1" iPOINT Cylinder |
| NIOB-1RTC | 1" iPOINT Cone |

Emergency: Housing can be specified with connections for emergency battery installation. Requires access above ceiling. Must specify battery with remote test switch separately ([NEPK-07LEDUNV](#)).

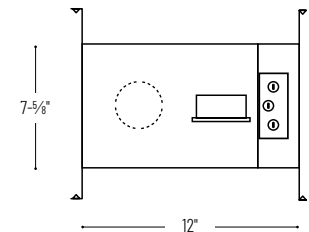
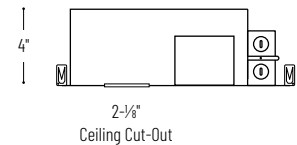
Note: Emergency is not compatible with NHIOICDCP-16

LABELS AND LISTINGS

- cULus Listed for Damp Location (Wet Location when used with compatible trim)
- ENERGY STAR certified
- [5-Year Limited Warranty](#)
- RoHS Compliant
- FCC compliant
- Patent #D824567S
- Meets or exceeds ASTM-283 Air-Tight requirements



PRODUCT IMAGES AND DIMENSIONS



1" Iolite IC Air-Tight New Construction Housing - Compatible with NIOB-1 & NIO-1 reflectors

| Housing Type | Driver / Dimming | Optional Emergency Wiring |
|--------------------------------------|--|--------------------------------|
| NHIOICD-16 = IC Air-Tight | LE3 = 120V input; Triac / ELV dimming LE4 = 120-277V input; Triac / ELV / 0-10V dimming | /PEM = Remote Emergency |
| NHIOICDCP-16 = Chicago Plenum | LE3 = 120V input; Triac / ELV dimming LE4 = 120-277V input; Triac / ELV / 0-10V dimming | |

Optional Accessories

| Description |
|---|
| NEPK-07LEDUNV = Remote Emergency Battery w/Test Switch |
| NIO-1EXTC2 = Ceiling Extension Collar up to 2" |

Example: **NHIOICD-16LE3** = 1" Iolite IC Air-Tight New Construction Housing, 120V input; Triac / ELV dimming