

# NHIOICD-415 / NHIOICD-420 / NHIOICD-425 NHIOICDCP-415 / NHIOICDCP-420 / NHIOICDCP-425

4" Iolite IC Air-Tight High Lumen New Construction Housing

Source: 20W to 28W LED  
1500lm to 2500lm

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 housing can be installed in 1/2" ceiling thickness, an extension collar (NIO-4EXTC2) is available for ceiling thickness up to 2".

**Patented Driver Assembly:** Allows driver to slide out of housing without tools from the room side. Housing includes a removable top cover for driver maintenance above the ceiling.

**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 hanger brackets 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. Junction box is accessible from the room side through housing opening.

**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 Chicago plenum housings.*

## ELECTRICAL

	415LE4	415LUPE0	420LE4	425LE4
<b>Input Voltage</b>	120/277V			
<b>Input Power</b>	20W	20W	24W	28W
<b>Power Factor</b>	≥0.90			
<b>Dimming</b>	Triac / ELV / 0-10V	Lutron EcoSystem	Triac / ELV / 0-10V	
<b>Operating Temp.</b>	40°C max.	25°C max.	30°C max.	25°C max.

## COMPATIBLE TRIMS

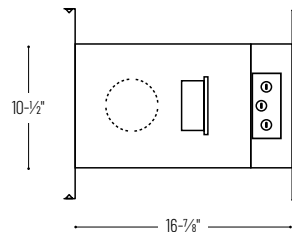
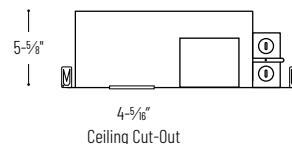
CATALOG NO.	DESCRIPTION
<a href="#">NIO-4RC</a>	4" Round Adjustable Cone Regress
<a href="#">NIO-4SC</a>	4" Square Adjustable Cone Regress
<a href="#">NIO-4RG</a>	4" Round Adjustable Surface Gimbal
<a href="#">NIO-4SG</a>	4" Square Adjustable Surface Gimbal
<a href="#">NIO-4RD</a>	4" Round Adj. Deep Regress (2000lm max.)
<a href="#">NIO-4SD</a>	4" Square Adj. Deep Regress (2000lm max.)
<a href="#">NIO-4RNDC</a>	4" Round Deep Reflector
<a href="#">NIO-4SNDC</a>	4" Square Deep Reflector
<a href="#">NIO-4RPH</a>	4" Round Pinhole
<a href="#">NIO-4RPHA</a>	4" Round Adjustable Pinhole
<a href="#">NIO-4RSL</a>	4" Round Adjustable Slot Aperture
<a href="#">NIO-4RNB</a>	4" Round Bullnose
<a href="#">NIO-4SNB</a>	4" Square Bullnose
<a href="#">NIO-4SNSDQ</a>	4" Square Reflector / Square Aperture (2000lm max.)
<a href="#">NIO-4SDSQ</a>	4" Square Adjustable / Square Aperture (2000lm max.)
<a href="#">NIO-4RW</a>	4" Round Wall Wash (2000lm max.)
<a href="#">NIO-4SW</a>	4" Square Wall Wash (2000lm max.)
<a href="#">NIO-4RTLA</a>	4" Round Trimless Adjustable
<a href="#">NIO-4RTLNDQ</a>	4" Round Trimless Downlight
<a href="#">NIO-4PRTLA</a>	4" PLUS Round Trimless
<a href="#">NIO-4PRTLNDQ</a>	4" PLUS Round Trimless Downlight

## LABELS AND LISTINGS

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



## PRODUCT IMAGES AND DIMENSIONS



## 4" Iolite ICAT High Lumen New Construction Housing - Compatible with NIO-4 trims

Housing Type / Lumens / Wattage	Driver / Dimming	Optional Emergency
<b>NHIOICD-415</b> = IC Air-Tight, 1500lm / 20W <b>NHIOICDCP-415</b> = Chicago Plenum, 1500lm / 20W	<b>LE4</b> = 120/277V input; Triac / ELV / 0-10V dimming <b>LUPE0</b> = 120/277V input; Lutron Hi-lume Premier 0.1% EcoSystem with Soft-On, Fade-to-Black (consult factory)	<b>/PEM</b> = Pre-Wired for Remote Emergency (not compatible with NHIOICDCP)
<b>NHIOICD-420</b> = IC Air-Tight, 2000lm / 24W <b>NHIOICDCP-420</b> = Chicago Plenum, 2000lm / 24W <b>NHIOICD-425</b> = IC Air-Tight, 2500lm / 28W <b>NHIOICDCP-425</b> = Chicago Plenum, 2500lm / 28W	<b>LE4</b> = 120/277V input; Triac / ELV / 0-10V dimming	<b>/PEM</b> = Pre-Wired for Remote Emergency (not compatible with NHIOICDCP)

## Optional Accessories

Description
<b>NEPK-07LEDUNV</b> = Remote Emergency Battery w/Test Switch
<b>NIO-4EXTC2</b> = Ceiling Extension Collar up to 2"

Example: **NHIOICD-420LE4** = 4" Iolite ICAT High Lumen New Construction Housing, 2000lm / 24W, 120-277V input; Triac / ELV / 0-10V dimming