

# NHIC-4LMRAT

4" IC Air-Tight LED Dedicated New Construction Housing  
(Compatible with Iolite / Cobalt / Marquise / Onyx / Pearl)

Type

Project

Catalog No.

Notes

## PRODUCT DESCRIPTION

Dedicated 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. The housing is dedicated and labeled for use with LED retrofit luminaires.

## FEATURES

- IC rated for direct contact with insulation
- Quick connect provided for electrical connection to the LED downlights
- ASTM E283 for Air-Tight
- 24-1/2" bar hangers with captive nails and alignment foot

## CONSTRUCTION

**Plaster Frame:** High quality 0.04" steel die cut one piece frame.

**Housing:** 0.040 galvanized steel housing with riveted cap adjusts for ceiling thicknesses from 5/8" to 1". Spring brackets accept torsion wing trim springs; slots on socket plate surface accept standard coil springs.

**Air Flow Restriction:** Housing has factory installed gaskets to restrict airflow from room into ceiling plenum to <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 frame. 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 allow for easy installation in a suspended ceiling.

**Junction Box:** Prewired 25 cubic inch 0.064" thick galvanized steel, with seven 1/2" trade size knockouts and 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.

## ELECTRICAL

**Input Voltage:** 120/277V or 277V (must specify)  
**Socket:** Quick connect for LED downlights  
**Operating Temperature:** 122°F (50°C) max.  
**Dimming:** Specified by downlight

## Step Down Transformer (converts 277V input to 120V):

Optional 50W step down transformer installed (NHIC-4LMRAT/277). Maximum of 6 no. 12 AWG through branch circuit conductors suitable for at least 90°C permitted in junction box when used with step down transformer.

## COMPATIBILITY

**NIR-4** = 4" Iolite Retrofit  
**NLCBC-4 / NLCBC2-4** = 4" Cobalt Retrofit  
**NRMC2-4** = 4" Marquise II Retrofit  
**NOX-4 / NOXAC-4 / NOXTW-4** = 4" Onyx Retrofit  
**NPR-4** = 4" Pearl Retrofit

**Emergency:** Housing can be specified with an emergency battery installed on frame (Cobalt only). Requires top access.

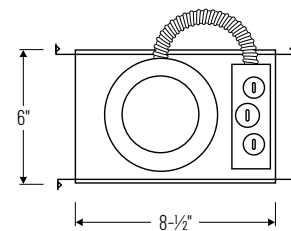
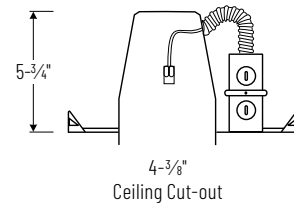
- Up to 7.5W emergency illumination with LEDs
- Illumination Time: 90min
- Voltage: 120/277 VAC, 60Hz
- Output Voltage: 15.0-50.0 VDC
- Remote test switch included

## LABELS AND LISTINGS

- cULus Listed for Damp Location (wet location when used with compatible downlight)
- ENERGY STAR certified
- Meets or exceeds ASTM-283 Air-Tight requirements
- Certified to the high efficacy requirements of California Title 24 JA8-2022 (when used with compatible downlight)
- RoHS compliant



## PRODUCT IMAGES & DIMENSIONS



## 4" IC Air-Tight LED Dedicated New Construction Housing

Catalog No.

**NHIC-4LMRAT** = 4" IC Air-Tight Housing, 120/277V input (120V Triac/ELV dimming)

**NHIC-4LMRAT/277** = 4" IC Air-Tight Housing, 277V input with 50W Step Down Transformer

**NHIC-4LMRAT/EM** = 4" IC Air-Tight Housing with Emergency Battery and Remote Test Switch, 120/277V input (Cobalt only - EM required)

**NHIC-4LMRAT/277EM** = 4" IC Air-Tight Housing with Emergency Battery and Remote Test Switch, 277V input with 50W Step Down Transformer (Cobalt only - EM required)

**NHIC-4LMRAT/4W** = 4" IC Air-Tight Housing, 120/277V input (120V Triac/ELV/0-10V & 277V 0-10V dimming, Cobalt only - LE4 required)

**NHIC-4LMRAT/6WEM** = 4" IC Air-Tight Housing with Emergency Battery and Remote Test Switch, 120/277V input (120V Triac/ELV/0-10V & 277V 0-10V dimming, Cobalt only - LE4EM required)

Example: **NHIC-4LMRAT** = 4" IC Air-Tight LED Dedicated New Construction Housing, 120/277V input