

NIO-2RTL

2" Iolite Trimless Reflectors (New Construction only)

Source: 14W LED

800lm or 1000lm

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

2" Trimless Iolite reflectors have no exposed trim flange and do not extend beyond the ceiling plane. Iolite Trimless requires a Trimless Mud Ring and New Construction housing. Reflectors ship with a 60° optic installed, 25° and 38° optics are included which can be easily changed in the field. The reflectors produce 800lm or 1000lm output at 90+ CRI, utilizing 14W.

FEATURES

- Cree® LED COB or Comfort Dim Technology
- 60° (Flood) optic installed, 38° (Narrow flood) and 25° (Spot) optics included
- 800 or 1000 lumens @ 14W
- 5-Year limited warranty

SPECIFICATION

Construction: Trimless reflectors are constructed of heat dissipating, die-cast aluminum. The aluminum die-cast LED heat sink is threaded to fit the trim and transfer heat.

Reflectors:

NIO-2RTLNDCC: Deep regressed cone reflectors optimize visual cut-off.

NIO-2RTLAL: Regressed cone reflector optimizes visual cut-off and adjust up to 15°.

Mounting: Field Changeable Optics: Each reflector comes with a 60° (installed), 38° and 25° optics (included). Premium TIR optics are also available in 15° or 25°, see page 2.

ELECTRICAL

Lumens / Wattage:

800lm or 1000lm / 14W

Color Temperature: 2700K, 3000K, 3500K, 4000K, 5000K

CRI: 90+CRI

Operating Temp.: 0°C to 40°C ambient temperature

Comfort Dim: Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 2000K on a gradual, even curve. Available in 800lm only.

Dimming: Specified by housing

COMPATIBLE HOUSINGS

Reflectors are compatible with respective Iolite housings manufactured by Nora Lighting.

CATALOG NO. DESCRIPTION

NH10ICD-28 2" IC Air-Tight New Construction

NH10ICDCP-28 2" Chicago Plenum New Construction

Accessories: Reflectors will accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see page 2. A trimless mud ring is required per reflector.

LABELS AND LISTINGS

- cULus Listed for Wet Location (NIO-2RTLAL is rated for damp location)
- ENERGY STAR certified
- 5-Year Limited Warranty
- RoHS Compliant
- Can be used to comply with 2016 Title 24 - part 6 High Efficacy LED light source requirements



PRODUCT IMAGES AND DIMENSIONS



— 2-3/4" —

NIO-2RTLAL

Round Trimless Adjustable Reflector

15° Adjustable

BB, BW, BZ, HW, HZ, MPW, WW



— 2-3/4" —

NIO-2RTLNDCC

Round Trimless Non-Adjustable Reflector

BB, BZ, HZ, MPW, WW

2" Iolite Trimless Reflectors - New Construction Housing & Trimless Mud Ring Required

Aperture	Reflector Style	Color Temp.	Finish ¹	Lumens
NIO-2RTL = Round	A = Adjustable	27X = 2700K	BB = Black	(blank) = 800lm
		30X = 3000K	BW = Black / White	/10 = 1000lm
	NDC = Non-Adjustable	35X = 3500K	BZ = Bronze	
		40X = 4000K	HZ = Haze	
		50X = 5000K	HW = Haze / White	
		CDX = Comfort Dim ¹	MPW = Matte Powder White	
			WW = White	

¹ Comfort Dim technology available in 800lm & uses non-Cree COB modules. 1" & 2" Iolite uses a different dimming curve than 4" Comfort Dim

¹ Not all finishes are available on all trims

2" Iolite Trimless Mud Ring

Description
NIO-TLMR-2R = 2" Round Trimless Mud Ring



Example: NIO-2RTLNDCC27XWW / NIO-TLMR-2R = 2" Iolite Round Trimless Non-Adjustable Reflector, 2700K, White finish, 800lm / 2" Round Trimless Mud Ring

2" Iolite Accessories

Iolite Accessories can be added at any point in the design process.
Accessories easily install between module and die-cast reflector.

Type

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Catalog No.

Notes



Frosted Filter-Optic

NIO-REFL15FR 15° Optic
NIO-REFL25FR 25° Optic
NIO-REFL38FR 38° Optic
NIO-REFL60FR 38° Optic



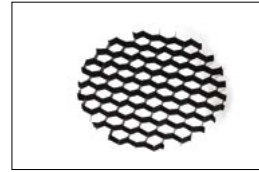
Translucent Deco Collar

NIO-AS14(color) 5/8"
NIO-AS19(color) 3/4"
NIO-AS24(color) 1"
Color:
BLU Blue, AM Amber, FR Frost, R Red



Opaque Collar Snoot

NIO-AS14(color) 5/8"
NIO-AS19(color) 3/4"
NIO-AS24(color) 1"
Color: BLK Black, MPW Matte Powder White, WH White



Hex Cell Louver

NIO-HC
Hex cell louver subtly reduces aperture brightness by reducing light output by about 20%



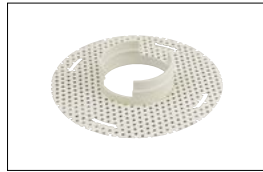
Premium TIR Optics

NIO-REFLTIR15 15° Optic
NIO-REFLTIR25 25° Optic
TIR optics are not compatible with Comfort Dim technology.



Flush Mount Mud Ring

NIO-FMMR-2R 2" Round
NIO-FMMR-2S 2" Square
Mounts trim flush to ceiling with trim flange visible. Attaches to drywall. Requires professional drywall finishing. **Requires and only for use with NHIOICD-28 new construction housing and NIOB-2 trims.**
7-7/8" Diameter 1/2" Thick



Trimless Mud Ring

NIO-TLMR-2R 2" Round
Mounts Trimless trim with no exposed flange and no extension beyond ceiling plane. Attaches to drywall. Requires professional drywall finishing. **Requires and only for use with NHIOICD-28 new construction housing and NIO-2RTL Trimless reflector.**
7-7/8" Diameter 1/2" Thick



Ceiling Extension Collar

NIO-2EXTC2
Allows new construction housing to install in ceiling thicknesses up to 2". **Only for use with NHIOICD-28 new construction housing.**

NHIOICD-28 / NHIOICDCP-28

2" Iolite IC Air-Tight New Construction Housing

Source: 14W LED

800lm or 1000lm

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.

FEATURES

- IC rated for direct contact with insulation**
- Quick connect provided for electrical connection to the LED reflector
- ASTM E283 for Air-Tight
- Patented driver assembly

SPECIFICATION

Housing: 0.040" Aluminum shallow housing with patented driver assembly, allows for driver to slide out without tools. Extension collar is available for ceiling thickness up to 2", must specify NIO-2EXTC2.

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. Through branch circuit wiring, (4-in, 4-out). Access above ceiling required.

ELECTRICAL

Voltage: 120V or 120/277V (must specify)

Power Factor: >0.90

Operatin Temp.: 104°F (40°C) max. ambient temperature

Wattage: 14W

Dimming: Triac / ELV or 0-10V dimming (must specify)

Check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab.

COMPATIBLE REFLECTORS

CATALOG NO.	DESCRIPTION
NIOB-2RC	2" Round Cone Regress
NIOB-2SC	2" Square Cone Regress
NIOB-2RG	2" Round Adj. Surface Gimbal
NIOB-2SG	2" Square Adj. Surface Gimbal
NIOB-2RND	2" Round Deep Reflector
NIOB-2SND	2" Square Deep Reflector
NIOB-2RPH	2" Round Pinhole
NIOB-2SND	2" Square Reflector / Square Aperture
NIOB-2RSL	2" Round Adj. Slot Aperture
NIOB-2RNB	2" Round Bullnose
NIOB-2SNB	2" Square Bullnose
NIO-2RTLA	2" Round Trimless Adj. Reflector
NIO-2RTLND	2" Round Trimless Reflector

Emergency: Housing can be specified with connections for emergency battery installation. Requires top access. Must specify battery with remote test switch separately, NEPK-BSL17C-C2U.

LABELS AND LISTINGS

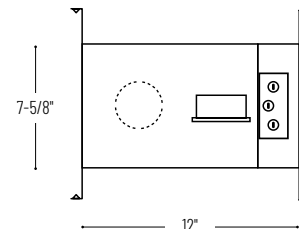
- cULus Listed for Damp Location
- cULus Listed for Wet Location (w/designated reflectors)
- 5-Year Limited Warranty
- RoHS Compliant
- Patent #D824567S
- Meets or exceeds ASTM-283 Air-Tight requirements



PRODUCT IMAGES AND DIMENSIONS



3-1/4" Ceiling Cut-Out



2" Iolite IC Air-Tight New Construction Housing - Compatible with NIOB-2 reflectors

Housing Type	Driver / Dimming	Optional Emergency
NHIOICD-28 = IC Air-Tight	LE3 = 120V input; Triac / ELV dimming	EM = Wire for Remote Emergency Battery
NHIOICDCP-28 = Chicago Plenum	LE4 = 120-277V input; Triac / ELV / 0-10V dimming	(ordered separately)

Optional Accessories

Description
NEPK-BSL17C-C2U = Remote Emergency Battery w/Test Switch
NIO-2EXTC2 = Ceiling Extension Collar up to 2"

Example: NHIOICD-28LE3 = 2" Iolite IC Air-Tight New Construction Housing, 120V input; Triac / ELV dimming