

NIOB-2 2" BWF IOLITE TRIMS

New Construction or Remodel Housing Required | Source: LED, 14 Watts, 800 Lumens

PRODUCT DESCRIPTION

Nora Lighting's 2" Iolite BWF trims are small aperture downlights that can be specified for use in new construction and remodel applications. The Iolite is a powerful 2" aperture downlight. The die-cast aluminum trims in square and round designs feature sharp, clean edges. The patent-pending, new construction housing allows for easy, tool-less removal of the driver. The Iolite ships with a 60° beam spread reflector installed and 25° and 38° reflectors included which can be easily changed in the field. The system provides 800 lumen output, 14 Watts and 96CRI. An obvious choice for Green energy efficient lighting in commercial and residential applications.

FEATURES

- 14 Watts
- Cree LED COB package
- 800 Lumens
- 96 CRI
- 2700K, 3000K, 3500K, 4000K and 5000K CCT
- Comfort Dim - Dims from 3100K to a warm 2000K
- Quick Connector
- 6" Cable with insulating sleeve
- 60° (Flood) reflector installed, 38° (Narrow flood) and 25° (Spot) reflector included.
- 5-Year limited warranty
- cULus listed for Wet Location
- Dimmable

SPECIFICATION

Trim: Trims are constructed of heat dissipating die-cast aluminum. The aluminum die-cast LED heat sink is threaded to fit the die-cast lamp holder. The precision threads and positive fit transfers heat to the trim. The Regressed cone trims (NIOB-2RND, NIOB-2SND) optimize visual cut-off. Surface Adjustable (NIOB-2RG, NIOB-2SG) adjusts 35°, Regressed Adjustable (NIOB-2RC, NIOB-2SC) adjusts 35° degrees. Scientifically and specifiable "Unitized Thermal Management" (UTM) provides exceptional cool operation exceeding all industry standards.

Mounting: Trim includes Friction Blades to mount trim securely to housing.

Optics: Cree® COB (2700K-5000K), Premium non-Cree COB (Comfort Dim).

ELECTRICAL

- Voltage:** 120V or 120V/277V options available
- Current:** 300mA-330mA
- Wattage:** 14 Watts
- Lumens:** 800 lm
- CRI:** 96 CRI
- Operating Temp.:** 0°C to 75°C ambient temperature
- Life Expectancy:** 50,000 hours
- Dimming:** Triac / ELV or 0-10V Dimming

Dimmable to 10% (varies by dimmer) [Click Here](#) or check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab

COMPATIBLE PATENT PENDING HOUSINGS

NIOB-2 series is compatible with IC Air-Tight LED Iolite Series Dedicated housings listed below. The housing is cULus listed for direct contact with insulation and meets ASTM E283 standards for Air Tight. Bar hangers are adjustable from 13-5/8" to 24-1/2". Bar hangers are slotted for T-Bar installation and includes alignment feet.

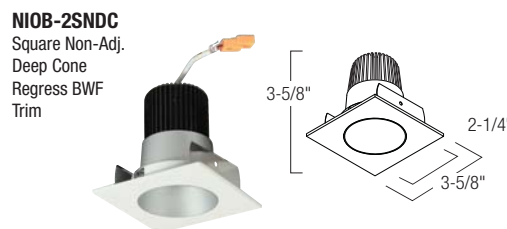
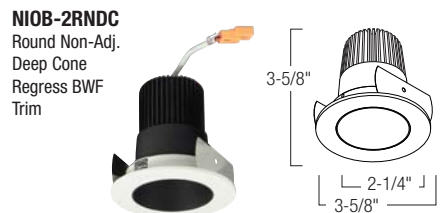
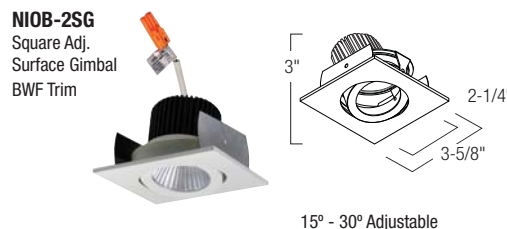
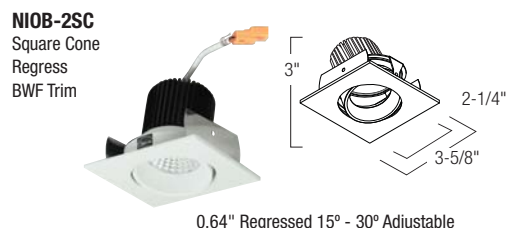
CATALOG NO.	DESCRIPTION
NHIOICD-28LE3	2" Iolite IC Air-Tight LED Dedicated New Construction Housing, 120V Triac Dimming
NHIOICD-28LE4	2" Iolite IC Air-Tight LED Dedicated New Construction Housing, 120V Triac or 0-10V / 277V 0-10V Dimming
NHRIOIC-28LE4	2" Iolite IC Air-Tight LED Dedicated Remodel Housing, 120V Triac or 0-10V / 277V 0-10V Dimming

LABELS AND LISTINGS

cULus for Wet Location
 Title 24 / JA8 Compliant
 ENERGY STAR Rated
 5 Year Limited Warranty
 ROHS



PRODUCT IMAGES AND DIMENSIONS



2" Iolite BWF Trims New Construction or Remodel Dedicated Housing Required

CATALOG NO.	TRIM TYPE	TRIM STYLE	COLOR TEMP	BEAM SPREAD	FINISH
NIOB-2	R Round S Square	C Cone Regress	27 2700K	X 25°/38°/60°	BB Black / Black
		G Adj. Surface Gimbal	30 3000K		BW ¹ Black / White
		NDC Non-Adj. Deep Cone Regress	35 3500K		BZ Bronze / Bronze
			40 4000K		HW ¹ Haze / White
			50 5000K		MPW Matte Powder White
			CD Comfort Dim*		NN Natural Metal / Natural Metal
					WW White / White

* Comfort Dim uses premium non-Cree COB
 1" and 2 1/4" Comfort Dim dim on a different curve. Do not put
 1" CD and 2 1/4" CD on the same switch leg (dimmer).

¹ Not available for Round and Square Surface Gimbal (G) trim style

** Not to be used in direct contact with spray foam insulation

Example: NIOB-2RG27XWW Iolite 2" BWF Round Adjustable Surface Gimbal, 2700K with 25°/38°/60° Reflectors, White finish. (Requires NHIOICD-28XXX or NHRIOIC-28XXX Housing)

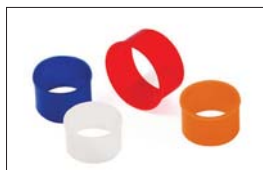
ACCESSORIES 2" IOLITE

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



Frosted Filter-Reflector

NIO-REFL15FR 15°
 NIO-REFL25FR 25°
 NIO-REFL38FR 38°
 NIO-REFL60FR 60°



Translucent Deco Collar

NIO-AS14(color) 5/8"
 NIO-AS19(color) 3/4"
 NIO-AS24(color) 1"

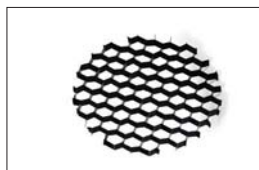
Blue, Amber, Frost or Red



Opaque Collar Snoot

NIO-AS14(color) 5/8"
 NIO-AS19(color) 3/4"
 NIO-AS24(color) 1"

Black, Matte Powder White, White



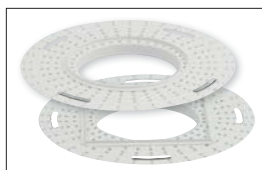
Hex Cell Louver

NIO-HC



15° Reflector

NIO-REFL15 15°



Flush Mount Mud Ring

NIO-FMMR-2R 2" Round
 NIO-FMMR-2S 2" Square

Allows flanged Iolite trims to be installed even with the ceiling plane. Flange is 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

Allows complete flangeless installation of Trimless Iolite trims. 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 trims.**

7-7/8" Diameter 1/2" Thick

NHIOICD-28 2" IOLITE IC AIR-TIGHT DEDICATED NEW CONSTRUCTION HOUSING

Source: LED, 14 Watts, 800 Lumens · Requires NIOB-2 or NIO-2RTL Series Iolite Trims

PRODUCT DESCRIPTION

New construction housing for use in insulated** ceilings can be in direct contact with insulation**. Rated for use with Iolite series fixtures.

FEATURES

- IC rated for direct contact with insulation**
- Quick connect provided for electrical connection to the LED Trim
- ASTM E283 for Air-Tight
- Energy Star
- Title 24
- Dimming down to 5%
- Save 75% compared to incandescent sources
- 50,000 hours at 70% lumen maintenance rated life
- No harmful ultra violet light, infrared wavelengths, or light leak

CONSTRUCTION

Housing: 0.040" Aluminum shallow housing constructed of Aluminum with integral bar hangers.

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

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.

Trim: Ordered separately. See NIOB-2 specification sheets for available trim styles and finishes. All trims come with a light engine that comes in 2700K, 3000K, 3500K, 4000K 5000K, and Comfort Dim.

** Not to be used in direct contact with spray foam insulation

ELECTRICAL

Voltage: 120V or 120/277V
Amp: 300mA - 330mA
Power Factor: >0.90
Operating Temp.: 122°F (50°C)
 Max. ambient temperature
Wattage: 14W
Dimming: Triac / ELV or 0-10V Dimming

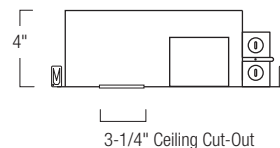
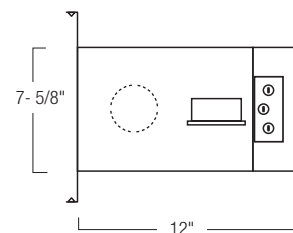
[Click Here](#) or check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab

LABELS AND LISTINGS

cULus for Wet Location
 Title 24 / JA8 Compliant
 ENERGY STAR Rated
 5-Year Limited Warranty
 ROHS
 Meets or exceeds ASTM-283 Air-Tight Requirements
 Washington State and California Approved



PRODUCT IMAGES AND DIMENSIONS



Housing Length: 12"
Housing Width: 7-5/8"
Housing Height: 4"
Cut-out: 3-1/4"

2" Iolite IC Air-Tight New Construction Housing (Compatible with NIOB-2 and NIO-2RTL Trims)

- NHIOICD-28LE3** 2" Iolite IC Air-Tight LED Dedicated Housing, 120V Triac / ELV Dimming
- NHIOICD-28LE4** 2" Iolite IC Air-Tight LED Dedicated Housing, 120V Triac / ELV or 0-10V / 277V 0-10V Dimming

NHRI0IC-28 2" IOLITE IC AIR-TIGHT REMODEL HOUSING

Source: LED, 14 Watts, 800 Lumens · Requires NIOB-2 Series Iolite Trims

PRODUCT DESCRIPTION

Dedicated remodel 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.

FEATURES

- IC rated for direct contact with insulation**
- Quick connect provided for electrical connection to the LED Trim
- ASTM E283 for Air-Tight
- ENERGY STAR
- Title 24
- Dimming down to 5%
- Save 75% compared to incandescent sources
- 50,000 hours at 70% lumen maintenance rated life
- No harmful ultra violet light, infrared wavelengths, or light leak

CONSTRUCTION

Housing 0.030 steel can connects to integrated 0.040 steel structural arm with J-box and driver compartment. Integral spring brackets provided.

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.

Mounting Four high-tension tempered steel springs secure remodel housing from 1/4" (min) to 5/8" (max) thick ceiling. Hole cutout template provided for convenience.

Junction Box Pre-wired 25 cubic inch 0.064" thick galvanized steel, with five 1/2", two 3/4" 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).

Trim Ordered separately. See NIOB-2 specification sheet for available trim styles and finishes. All trims come with a light engine that comes in 2700K, 3000K, 3500K, 4000K 5000K, and Comfort Dim.

** Not to be used in direct contact with spray foam insulation

ELECTRICAL

- Voltage:** 120/277V
Amp: 300mA - 330mA
Power Factor: >0.90
Operating Temp.: 122°F (50°C)
 Max. ambient temperature
- Wattage:** 14W
Dimming: Triac / ELV or 0-10V Dimming

[Click Here](#) or check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab

LABELS AND LISTINGS

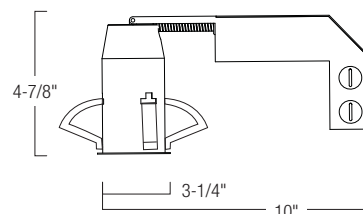
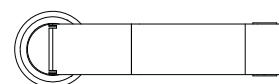
cULus for Wet Location
 Title 24 / JA8 Compliant
 ENERGY STAR Rated
 5-Year Limited Warranty
 ROHS
 Meets or exceeds ASTM-283 Air-Tight Requirements
 Washington State and California Approved



ACCESSORY

NHIOFK-2 New Construction Frame-In
 For use in new construction applications where remodel is to be used. Allows access to j-box from below.

PRODUCT IMAGES AND DIMENSIONS



Housing Length: 10"
Housing Height: 4-7/8"
Cut-out: 3-1/4"



NHIOFK-2 New Construction Frame-In for 2"

Frame-In Length: 13"
Frame-In Width: 8-1/4"
Cut-out: 2-3/8"

2" Iolite IC Air-Tight Remodel Housing (Compatible with NIOB-2 Trims)

- NHRI0IC-28LE4:** 2" Iolite IC Air-Tight Dedicated Remodel Housing, 120V Triac / ELV or 0-10V / 277V 0-10V Dimming
- NHIOFK-2:** 2" Iolite New Construction Frame-In

PHOTOMETRICS 2" IOLITE

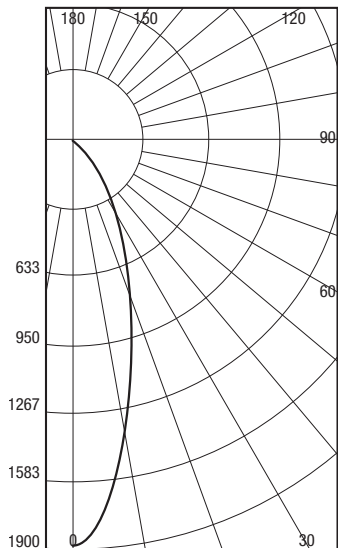
2" IOLITE LED 3000K, 25°

Item Number: NIOB-2RG3025WWLE3

Lamp Output: 789 Lumens

Max Candela: 1624.7

INTENSITY (CP) SUMMARY



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	560.7	71.1
0-40	699.7	88.7
0-60	788.5	99.9
0-90	789.0	100.0

ILLUMINANCE AT A DISTANCE

FOOTCANDLES CENTER BEAM	HEIGHT (IN FEET)	BEAM DIAMETER
406 fc	2'	1.1'
102 fc	4'	2.1'
45.1 fc	6'	3.2'
25.4 fc	8'	4.3'
<u>16.2 fc</u>	<u>10'</u>	<u>5.3'</u>
11.3 fc	12'	6.4'

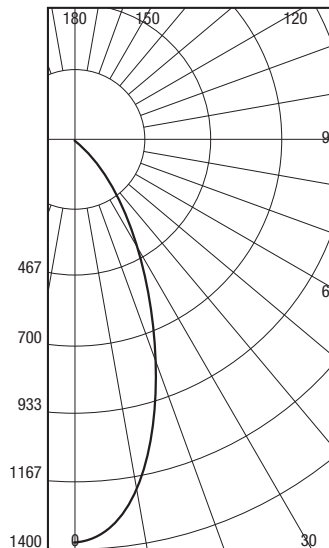
2" IOLITE LED 3000K, 38°

Item Number: NIOB-2RG3038WWLE3

Lamp Output: 778.7 Lumens

Max Candela: 1290.5

INTENSITY (CP) SUMMARY



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	577.3	74.1
0-40	705.6	90.6
0-60	778.4	100.0
0-90	778.7	100.0

ILLUMINANCE AT A DISTANCE

FOOTCANDLES CENTER BEAM	HEIGHT (IN FEET)	BEAM DIAMETER
321 fc	2'	1.5'
80.3 fc	4'	3.1'
35.7 fc	6'	4.6'
20.1 fc	8'	6.1'
<u>12.9 fc</u>	<u>10'</u>	<u>7.7'</u>
8.92 fc	12'	9.2'

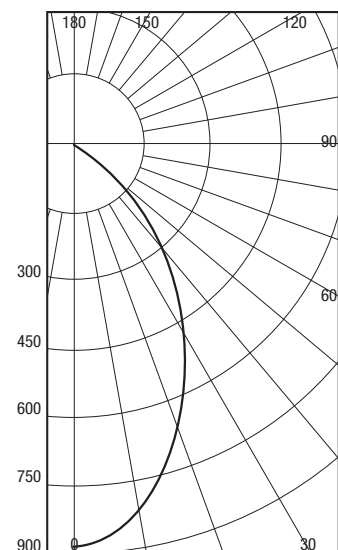
2" IOLITE LED 3000K, 60°

Item Number: NIOB-2RG3060WWLE3

Lamp Output: 776.4 Lumens

Max Candela: 785.7

INTENSITY (CP) SUMMARY



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	491.3	63.3
0-40	670.9	86.4
0-60	776.0	99.9
0-90	776.4	100.0

ILLUMINANCE AT A DISTANCE

FOOTCANDLES CENTER BEAM	HEIGHT (IN FEET)	BEAM DIAMETER
196 fc	2'	2.3'
49.1 fc	4'	4.7'
21.8 fc	6'	7.0'
12.3 fc	8'	9.3'
<u>7.85 fc</u>	<u>10'</u>	<u>11.7'</u>
5.45 fc	12'	14.0'