

NHRI0ICD-28

2" Iolite IC Air-Tight Remodel Housing (Requires NIOB-2)

Source: 14W LED
800lm

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
- Dimming down to 5%
- Save 75% compared to incandescent sources
- 50,000 hours at 70% lumen maintenance rated life
- No harmful ultraviolet light, infrared wavelengths, or light leak

SPECIFICATION

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

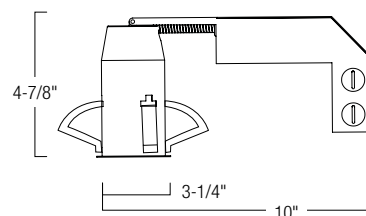
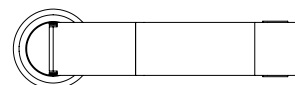
Voltage: 120/277V
Amp: 300mA - 330mA
Power Factor: >0.90
Operating Temp.: 122°F (50°C)
 Max. ambient temperature
Wattage: 14W
Dimming: Triac / ELV or 0-10V Dimming
[Click Here](#) or check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab

LABELS AND LISTINGS

- cULus Listed for Wet Location
- ENERGY STAR Rated
- 5-Year Limited Warranty
- RoHS compliant
- Meets or exceeds ASTM-283 Air-Tight Requirements
- Washington State and California Approved
- Can be used to comply with 2016 Title 24 – part 6 High Efficacy LED light source requirements



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)

Catalog No.	Description
NHIOIC-28LE4	2" Iolite IC Air-Tight Dedicated Remodel Housing, 120V Triac / ELV or 0-10V / 277V 0-10V Dimming
NHIOFK-2	2" Iolite IC New Construction Frame-In

NIOB-2

2" Iolite BWF Trims (New Construction and Remodel)

Source: 14W LED
800lm to 1000lm

PRODUCT DESCRIPTION

Nora Lighting's 2" Iolite BWF trims are small aperture downlights that can be specified for use in new construction or 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 800lm to 1000lm output, 14W and 96 CRI. An obvious choice for green, energy efficient lighting in commercial and residential applications.

FEATURES

- Cree® LED COB or Comfort Dim Technology
- Wide variety of trims and finishes
- 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

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-2RNDC, NIOB-2SND) optimize visual cut-off. NIOB-2RC and NIOB-2RG adjusts from 15°-30°, while NIOB-2SC and NIOB-2SG adjusts only 15° 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

Lumens / Wattage:

800lm / 14W

1000lm / 14W (New Construction only)

CRI: 96

Operating Temp.: 0°C to 45°C ambient temperature

Life Expectancy: 50,000 hours

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

COMPATIBLE HOUSINGS

NIOB-2 series is compatible with IC Air-Tight LED Iolite Series Dedicated housings listed below.

CATALOG NO.	DESCRIPTION
NH10ICD-28	2" Iolite IC Air-Tight LED Dedicated New Construction Housing
NH10IC-28	2" Iolite IC Air-Tight LED Dedicated Remodel Housing

LABELS AND LISTINGS

- cULus Listed for Wet Location
- ENERGY STAR Rated
- 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



NIOB-2RC Round Cone Regress BWF Trim

15° - 30° Adjustable
BW, BZ, HW, MPW, NN, WW



NIOB-2SC Square Cone Regress BWF Trim

15° Adjustable
BW, BZ, HW, MPW, NN, WW



NIOB-2RG Round Adj. Surface Gimbal BWF Trim

15° - 30° Adjustable
BW, MPW, NN, WW



NIOB-2SG Square Adj. Surface Gimbal BWF Trim

15° Adjustable
BW, MPW, NN, WW



NIOB-2RNDC Round Non-Adj. Deep Cone Regress BWF Trim

Non Adjustable
BW, BZ, HW, MPW, NN, WW



NIOB-2SND Square Non-Adj. Deep Cone Regress BWF Trim

Non Adjustable
BW, BZ, HW, MPW, NN, WW



NIOB-2SND SQ Square Deep Cone, Square Regress BWF Trim

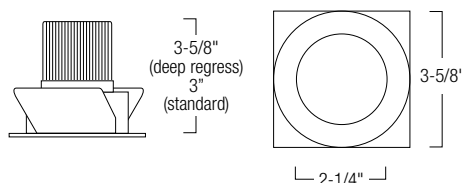
Non Adjustable
BB, BW, BZ, HN, HW, MPW, WW

2" Iolite BWF Trims (New Construction or Remodel)

Aperture	Trim Style	Color Temp.	Finish ¹	Lumens
NIOB-2R = Round	C = Cone Regress	27X = 2700K	BB = Black / Black	(blank) = 800lm
NIOB-2S = Square	G = Adj. Surface Gimbal	30X = 3000K	BW = Black / White	/10 = 1000lm
	NDC = Non-Adj. Deep Cone Regress	35X = 3500K	BZ = Bronze / Bronze	
		40X = 4000K	HN = Haze / Natural Metal	
	NDSQ = Deep Cone Non-Adj. Square Regress	CDX = Comfort Dim [†]	HW = Haze / White	
	<i>NDSQ only available with square trim</i>		MPW = Matte Powder White	
			NN = Natural Metal / Natural Metal	
			WW = White / White	

[†] Comfort Dim technology uses non-Cree COB modules. 1" and 2" Iolite trims use a different dimming curve than the 4" Comfort Dim.

¹ Not all finishes are available on all trims



Example: NIOB-2RG27XWW Iolite 2" BWF Round Adjustable Surface Gimbal, 2700K, White / White finish

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"

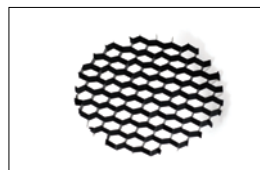
Blue, Amber, Frost or Red



Opaque Collar Snoot

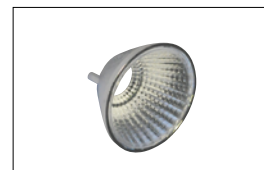
NIO-AS14(color)	5/8"
NIO-AS19(color)	3/4"
NIO-AS24(color)	1"

Black, Matte Powder White, White



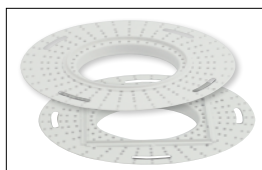
Hex Cell Louver

NIO-HC



15° Reflector

NIO-REFL15	15°
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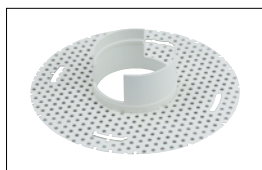


Flush Mount Mud Ring

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
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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

PHOTOMETRICS

2" Iolite

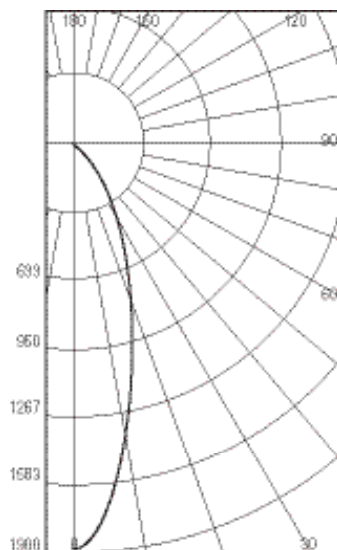
2" IOLITE LED 3000K, 25°

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'
16.2 fc	10'	5.3'
11.3 fc	12'	6.4'

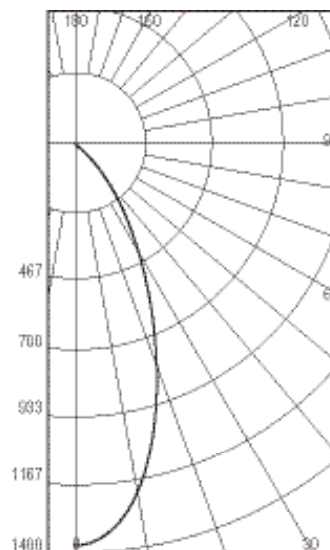
2" IOLITE LED 3000K, 38°

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'
12.9 fc	10'	7.7'
8.92 fc	12'	9.2'

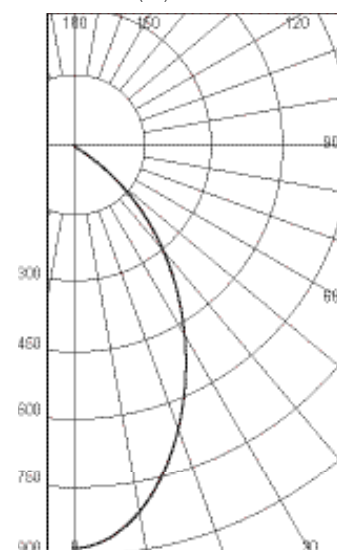
2" IOLITE LED 3000K, 60°

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'
7.85 fc	10'	11.7'
5.45 fc	12'	14.0'