

NI0B-2RPH / NI0B-2RPHA

2" Iolite Round Pinhole

Source: 14W to 28W LED

800lm to 2500lm

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

2" Iolite reflectors can be specified for use with Iolite new construction or remodel housings. Pinhole reflector focuses the beam spread through small opening. Available in fixed downlight or adjustable.

FEATURES

- 800lm, 1000lm, 1500lm, 2000lm or 2500lm LED packages
- 2700K, 3000K, 3500K, 4000K, 5000K @ 90+ CRI
- Cree® LED COB or Comfort Dim Technology
- Flood optic, narrow flood and spot optics (included)
- 5-Year limited warranty

SPECIFICATION

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

Mounting: Reflector includes friction blades to mount securely to housing.

OPTICS

800-1000lm: Each reflector includes field changeable optics (25° spot, 38° narrow flood and 60° flood - preinstalled). Premium 15° and 25° TIR optics are also available.

1500-2500lm: Each reflector includes field changeable TIR optics (30° spot, 45° narrow flood - preinstalled and 65° flood).

ELECTRICAL

Lumens / Wattage: 800lm / 14W, 1000lm / 14W, 1500lm / 20W, 2000lm / 24W, 2500lm / 28W

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

CRI: 90+ CRI

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

Lifetime: 50,000 hours @ L70

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	LUMENS / WATTAGE
NH0ICD-28	ICAT New Construction	800-1000lm / 14W
NH0ICDCP-28	Chicago Plenum	800-1000lm / 14W
NHR0IC-28	ICAT Remodel	800-1000lm / 14W
NH0ICD-215	ICAT New Construction	1500lm / 20W
NH0ICDCP-215	Chicago Plenum	1500lm / 20W
NH0ICD-220	ICAT New Construction	2000lm / 24W
NH0ICDCP-220	Chicago Plenum	2000lm / 24W
NH0ICD-225	ICAT New Construction	2500lm / 28W
NH0ICDCP-225	Chicago Plenum	2500lm / 28W

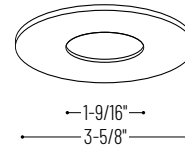
Accessories: Reflectors will accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see accessories page. Flush mount mud ring is available to give the appearance of a trimless reflector, compatible with new construction housing only.

LABELS AND LISTINGS

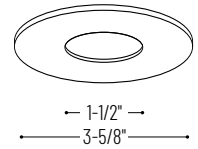
- cULus Listed for Wet Locations (NI0B-2RPHA is damp location)
- ENERGY STAR certified
- [5-Year Limited Warranty](#)
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2019



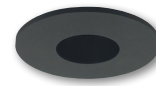
PRODUCT IMAGES & DIMENSIONS



NI0B-2RPH
Round Pinhole
Non-Adjustable



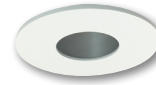
NI0B-2RPHA
Round Adjustable Pinhole
Adjustability:
New Construction:
28° (800lm-1000lm)
20° (1500lm-2500lm)
Remodel: 10°



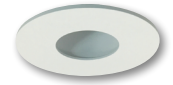
BB
Black Pinhole
Black Flange



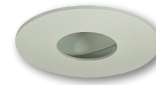
BMPW
Black Pinhole
Matte Powder White Flange



HZMPW
Haze Pinhole
Matte Powder White Flange



MPW
Matte Powder White Pinhole
Matte Powder White Flange



WW
White Pinhole
White Flange

2" Iolite Round Pinhole - Dedicated Housing Required

Reflector Type	Color Temp.	Finish	Lumens / Wattage
NI0B-2RPH = Round Pinhole	27X = 2700K	BB = Black / Black	(blank) = 800lm / 14W
NI0B-2RPHA = Round Adjustable Pinhole	30X = 3000K	BMPW = Black / Matte Powder White	/10 = 1000lm / 14W
	35X = 3500K	HZMPW = Haze / Matte Powder White	/HL = 1500-2500lm (varies by housing)
	40X = 4000K	MPW = Matte Powder White	
	50X = 5000K	WW = White (NI0B-2RPHA only)	
	CDX = Comfort Dim [†]		

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

Compatible Housings

Housing Type
NH0ICD-28 = ICAT New Construction / 800-1000lm / 14W
NH0ICDCP-28 = Chicago Plenum / 800-1000lm / 14W
NHR0IC-28 = ICAT Remodel / 800-1000lm / 14W
NH0ICD-215 = ICAT New Construction / 1500lm / 20W
NH0ICDCP-215 = Chicago Plenum / 1500lm / 20W
NH0ICD-220 = ICAT New Construction / 2000lm / 24W
NH0ICDCP-220 = Chicago Plenum / 2000lm / 24W
NH0ICD-225 = ICAT New Construction / 2500lm / 28W
NH0ICDCP-225 = Chicago Plenum / 2500lm / 28W

Example: NI0B-2RPH27XBB = 2" Iolite Round Pinhole, 2700K, Black finish, 800lm / 14W

2" Iolite Accessories

2" Iolite Round Pinhole

Type

Project

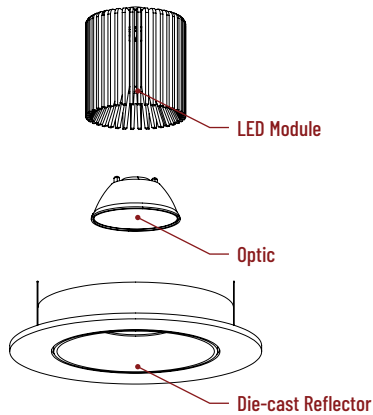
Catalog No.

Notes

FIELD CHANGEABLE OPTICS

Iolite reflectors include spot, narrow flood and flood optics. Optics can be changed in the field by removing LED module from die-cast reflector. Replacement optics include an optional frosted lens.

Note: Frosted filter-optics and Premium TIR optics are not compatible with /HL LED modules.



Frosted Filter-Optic

NIO-REFL15FR
NIO-REFL25FR
NIO-REFL38FR
NIO-REFL60FR

15° Optic
25° Optic
38° Optic
60° Optic

Optic assembly includes optional frosted lens. 25°, 38° and 60° optics are included with 800lm and 1000lm reflector.
Not compatible with /HL LED module.



Premium TIR Optics

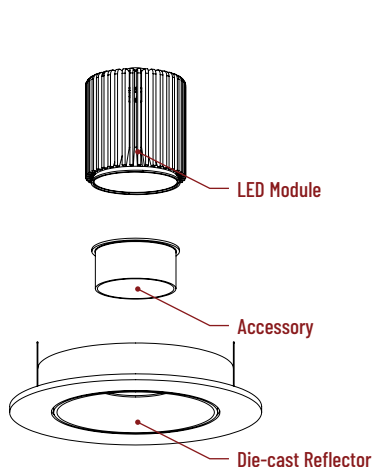
NIO-REFLTIR15
NIO-REFLTIR25

15° Optic
25° Optic

Not compatible with /HL LED module or Comfort Dim (CDX) technology

ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between LED module and die-cast reflector. Luminaire will accommodate (1) hex louver and (1) collar accessory, no accessory holder required.



Translucent Decorative Collar

NIO-AS14(color) 5/8" length
NIO-AS19(color) 3/4" length
NIO-AS26(color) 1" length
Color:
AM (amber), BLU (blue), FR (frosted), R (red)

Translucent collars color the aperture with the specified color while producing white general light. Collars are available in different lengths. Use to add interest, create a theme, match a theme or define a space.



Opaque Collar Snoot

NIO-AS14(color) 5/8" length
NIO-AS19(color) 3/4" length
NIO-AS26(color) 1" length
Color:
BLK (black), MPW (matte powder white), WH (white)

Opaque snoot greatly reduces aperture brightness while preserving light output. (Note: Black snoot will reduce light)

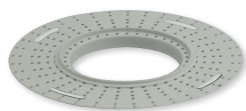


Hex Cell Louver

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

FLUSH MOUNT

2" Iolite reflectors can be installed flush with the drywall for a flush mount appearance. A flush mount mud ring is installed after the drywall and a professional drywall finisher floats the ceiling to blend in the mud ring.



Flush Mount Mud Ring

NIO-FMMR-2R

Round Mud Ring

Mounts trim flush to ceiling with reflector flange visible. **Mud ring attaches to drywall. Requires and only for use with NH10ICD-28 or NH10ICDCP-28 new construction housings and NIOB-2R reflectors.**
Dimensions: 7-7/8" diameter 1/2" thick

PHOTOMETRICS

2" Iolite Round Pinhole

800 lumens

Type

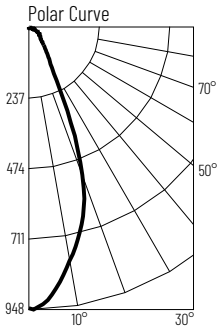
Project

Catalog No.

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Test Information

Test Number: NTR11323
Part Number: NIOB-2RPH27XWW
Beam Spread: 42° Flood
Lumens: 650lm
Wattage: 14.57W
Efficacy: 45lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0°-180): 0.72
Spacing Criteria (90°-270): 0.68



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	59fc	3'-1"
6'	26.2fc	4'-8"
8'	14.7fc	6'-4"
10'	9.4fc	7'-11"
12'	6.6fc	9'-5"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	419	64.5
0-40	492	75.7
0-60	585	89.9
0-90	646	99.3
90-180	5	0.7
0-180	650	100

Candela Table

Vertical Angles	Candela
0	944
5	898
15	688
25	283
35	112
45	60

Lumen Output Multipliers

Color Temperature: 2700K (1.00), 3000K (1.03), 3500K (1.07), 4000K (1.2), 5000K (1.21)