NIOB-2RPHA

2" Iolite Round Adjustable Pinhole with 10° Optic

Source: 12W
650lm

Type	
Project	
Catalog No.	
Notes	

PRODUCT DESCRIPTION

2" Iolite trims can be specified for use with Iolite new construction or remodel housings. Adjustable pinhole focuses the beam spread through small opening.

FEATURES

- Delivering up to 7630 center beam candlepower (CBCP)
- 2700K, 3000K, 3500K, 4000K @ 90+ CRI
- 10° TIR optic delivers luminous intensity of higher lumen downlights
- 5-Year limited warranty

SPECIFICATION

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

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

OPTIC

Each luminaire includes 10° TIR optic (Note: cannot be changed in the field)
Luminaire is also available with field changeable optics, Click Here for more information.

ELECTRICAL

Lumens / Wattage: 650lm / 12W
Color Temperature: 2700K, 3000K, 3500K, 4000K
Color Rendering Index: 90+ CRI
Operating Temperature: Specified by housing
Lifetime: 50,000 hours @ L70
Dimming: Specified by housing

COMPATIBLE HOUSINGS

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

CATALOG NO.	DESCRIPTION
NHIOICD-28LE4	ICAT New Construction, 120-277V; Triac / ELV / 0-10V
NHIOICD-28LUPEQ	ICAT New Construction, 120/277V; Lutron EcoSystem
NHIOICDCP-28LE4	Chicago Plenum, 120-277V; Triac / ELV / 0-10V
NHIOICDCP-28LUPEQ	Chicago Plenum, 120/277V; Lutron EcoSystem
NHRIOIC-28LE4	ICAT Remodel, 120-277V; Triac / ELV / 0-10V

Accessories: Luminaires can 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, compatible with new construction housings only.

LABELS AND LISTINGS

- cULus Listed for Damp Locations
- ENERGY STAR certified
- 5-Year Limited Warranty
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2022

Performance Data

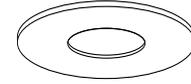| Part Number	Lumens	CCT	CBCP
NIOB-2RPHA40QWW	663lm	4000K	7630 cd

Delivered lumens will vary depending on CCT and finish

PRODUCT IMAGES & DIMENSIONS

← 1-½" →
3-⅝"

NIO-2RPHA
Round Adjustable Pinhole
Adjustability:
New Construction: 28° / 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 Adjustable Pinhole with 10° Optic - Dedicated Housing Required

Type	Color Temperature	Finish
NIOB-2RPHA = Round Adjustable Pinhole	**27Q** = 2700K **30Q** = 3000K **35Q** = 3500K **40Q** = 4000K	**BB** = Black / Black **BMPW** = Black / Matte Powder White **HZMPW** = Haze / Matte Powder White **MPW** = Matte Powder White **WW** = White

Compatible Housings

Housing Type
NHIOICD-28LE4 = ICAT New Construction; Triac / ELV / 0-10V
NHIOICD-28LUPEQ = ICAT New Construction; Lutron EcoSystem
NHIOICDCP-28LE4 = Chicago Plenum; Triac / ELV / 0-10V
NHIOICDCP-28LUPEQ = Chicago Plenum; Lutron EcoSystem
NHRIOIC-28LE4 = ICAT Remodel; Triac / ELV / 0-10V

Example: NIOB-2RPHA40QBB = 2" Iolite Round Adjustable Pinhole with 10° Optic, 4000K, Black Pinhole / Black Flange

2" Iolite Accessories
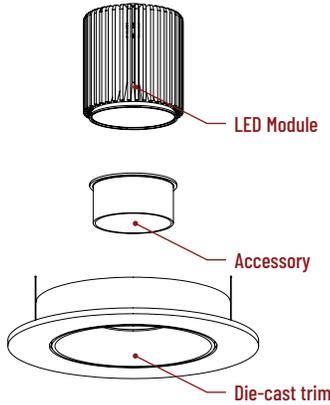## 2" Iolite Round Adjustable Pinhole with 10° Optic

ACCESSORIES

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

LED Module

Accessory

Die-cast trim

Translucent Decorative Collar

NIO-AS14(color)	⅝" length
NIO-AS19(color)	¾" 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)	⅝" length
NIO-AS19(color)	¾" length
NIO-AS26(color)	1" length

Color:
MPW (matte powder white), **WH** (white)

Opaque snoot greatly reduces aperture brightness while preserving light output.

Hex Cell Louver

NIO-HC   Black

Hex cell louver subtly reduces aperture brightness by reducing light output by about 20%.

FLUSH MOUNT

2" Iolite trims 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 flange visible.
Mud ring attaches to drywall. Only for use with NHIOICD-28 or NHIOICDCP-28 new construction housings and NIOB-2R trims.
Dimensions: 7-⅞" diameter ½" thick

PHOTOMETRICS

2" Iolite Round Adjustable Pinhole with 10° Optic

Test Information
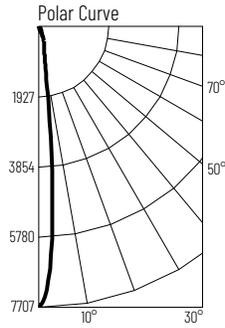
Test Number: NTR1908R1
Part Number: NIOB-2RPHA40QWW
Beam Spread: 11° Spot
Lumens: 663lm
Wattage: 12.4W
Efficacy: 53lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.2
Spacing Criteria (90°-270°): 0.2

Polar Curve

Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	119fc	1'-6"
10'	76.3fc	1'-11"
12'	53fc	2'-4"
14'	38.9fc	2'-8"
16'	29.8fc	3'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	575	86.7
0-40	608	91.6
0-60	639	96.3
0-90	663	100
90-180	0	0
0-180	663	100

Candela Table

Vertical Angles	Candela
0	7630
5	4364
15	603
25	220
35	44
45	23

Lumen Output Multipliers

Color Temperature: 2700K (0.9), 3000K (0.96), 3500K (0.96), 4000K (1.00)