## NIOB-2RPH

2" Iolite Round Pinhole Source: 14W to 28W LED 800lm to 2500lm

Туре		
Project		
Catalog No.		
Notes		

### PRODUCT DESCRIPTION

2" lolite downlights can be specified for use with lolite new construction or remodel housings. Fixed pinhole focuses the beam spread through small opening. Also available in adjustable pinhole (NIOB-2RPHA).

#### **FEATURES**

- 800lm, 1000lm, 1500lm, 2000lm or 2500lm LED packages
- 2700K, 3000K, 3500K, 4000K, 5000K @ 90+ CRI
- Comfort Dim (warm dimming) is also available
- Flood optic, narrow flood and spot optics (included)
- 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.

800-1000lm: Three field changeable optics (22° spot, 33° narrow flood and 44° flood) are included with each LED module. Premium 10° TIR narrow spot optic assembly also available (Click Here for more information). Optional frosted and TIR optics are

1500-2500Im: Three field changeable TIR optics (spot, narrow flood and flood) are included with each LED module.

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

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

Color Rendering Index: 90+CRI

**Operating Temperature:** 0°C to 40°C ambient temperature

**Lifetime:** 50,000 hours @ L70

Comfort Dim: Comfort Dim color tunes the temperature from a bright 3100K (800lm) or 3000K (HL), to a romantic and

comfortable 2000K on a gradual, even curve. Available in 800lm or HL (1500lm-2500lm).

**Dimming:** Specified by housing

#### **COMPATIBLE HOUSINGS**

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

CATALUG NO.	DESCRIPTION	LUMENS / WATTAG
NHIOICD-28	ICAT New Construction	800-1000lm / 14W
NHIOICDCP-28	Chicago Plenum	800-1000lm / 14W
NHRIOIC-28	ICAT Remodel	800-1000lm / 14W
NHIOICD-215	ICAT New Construction	1500lm / 20W
NHIOICDCP-215	Chicago Plenum	1500lm / 20W
NHIOICD-220	ICAT New Construction	2000lm / 24W
NHIOICDCP-220	Chicago Plenum	2000lm / 24W
NHIOICD-225	ICAT New Construction	2500lm / 28W
NHIOICDCP-225	Chicago Plenum	2500lm / 28W

Accessories: Luminaires 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
- 5-Year Limited Warranty
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2022



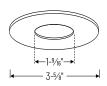








# PRODUCT IMAGES & DIMENSIONS



NIO-2RPH Round Adjustable Pinhole Non-Adjustable



BB Black Pinhole Black Flange





**HZMPW** Haze Pinhole Matte Powder White Flange

**Compatible Housings** 

**Housing Type** 



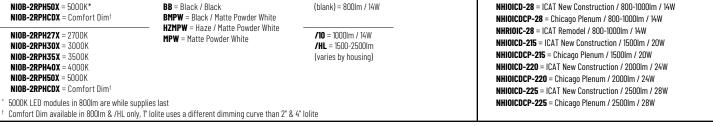
**BMPW** 

Matte Powder White Pinhole Matte Powder White Flange

## 2" lolite Round Pinhole - Dedicated Housing Required

Color Temperature	FINISN	Lumens / Wattage
NIOB-2RPH5OX = 5000K* NIOB-2RPHCDX = Comfort Dim <sup>†</sup>	BB = Black / Black BMPW = Black / Matte Powder White HZMPW = Haze / Matte Powder White MPW = Matte Powder White	(blank) = 800lm / 14W
NIOB-2RPH27X = 2700K NIOB-2RPH30X = 3000K NIOB-2RPH35X = 3500K NIOB-2RPH40X = 4000K NIOB-2RPH50X = 5000K NIOB-2RPHCOX = Comfort Dim <sup>1</sup>		/10 = 1000lm / 14W /HL = 1500-2500lm (varies by housing)
* 5000K LED modules in 800lm are while s	upplies last	781-84-

Example: NIOB-2RPH50XBB = 2" lolite Round Pinhole, 5000K, Black Pinhole / Black Flange, 800lm / 14W



Lumana / Wattaga



# 2" lolite Accessories

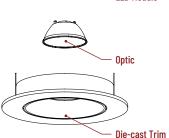
2" Iolite Round Pinhole

Type **Project** Catalog No. **Notes** 

#### FIELD CHANGEABLE OPTICS

lolite luminaires include spot, narrow flood and flood optics. Optics can be changed in the field by removing LED module from die-cast trim. Optional frosted optics are available. Note: Frosted optics and Premium TIR optics are not compatible with /HL LED modules.









Frosted Optics

NIO-REFL38FR 60° Optic NIO-REFL60FR 73° Optic

Not compatible with /HL LED module.



22° Optic

26° Optic

Premium TIR Optics

NIO-REFLTIR15 NIO-REFLTIR25

Not compatible with /HL, Comfort Dim (CDX) LED modules or Hex Cell Louver.

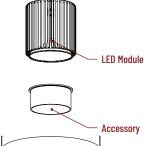


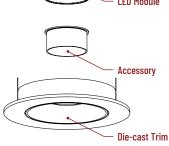
10° TIR Optic Assembly

Specialized narrow spot LED module assembly is also available. Requires LE4 housing, Click Here for more information.

## **ACCESSORIES**

lolite 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..









NIO-AS14(color) 5/8" length NIO-AS19(color) 3/4" length NIO-AS26(color) 1" length <u>Color</u>:

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 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%.

Hex cell louver is not compatible with TIR optics.

### **FLUSH MOUNT**

2" lolite downlights 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 NHIOICD-28 or NHIOICDCP-28 new construction housings and NIOB-2R trims.

Dimensions: 7-1/8" diameter 1/2" thick

# **PHOTOMETRICS**

2" Iolite Round Pinhole 800 lumens Type

Project

Catalog No.

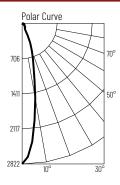
Notes

## **Test Information**

Test Number: NTR2233R1 Part Number: NIOB-2RPH40XMPW/10

Beam Spread: 22° Spot Lumens: 841lm Wattage: 13.41W Efficacy: 631pw

CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.38 Spacing Criteria (90°-270°): 0.38



# Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	176fc	1'-6"
6'	78.4fc	2'-4"
8'	44.1fc	3'-1"
10'	28.2fc	3'-10"
12'	19.6fc	4'-7"

## Zonal Lumen Summary

	,	
Zone	Lumens	% Luminaire
0-30	595	70.7
0-40	657	78.1
0-60	769	91.4
0-90	841	100
90-180	0	0
0-180	841	100

## Candela Table

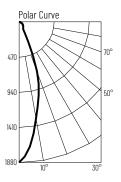
candela Table		
Vertical Angles	Candela	
0	2822	
5	2381	
15	906	
25	262	
35	103	
45	80	

## **Test Information**

Test Number: NTR2235R1 Part Number: NIOB-2RPH40XMPW/10 Beam Spread: 33° Narrow Flood

Lumens: 847lm Wattage: 13.41W Efficacy: 63lpw CCT / CRI: 4000K /

CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.54 Spacing Criteria (90°-270°): 0.54



## Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	117fc	2'-4"
6'	52.2fc	3'-6"
8'	29.4fc	4'-8"
10'	18.8fc	5'-10"
12'	13.1fc	7'

## Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	592	70
0-40	655	77.3
0-60	770	91
0-90	847	100
90-180	0	0
0-180	847	100

## Candela Table

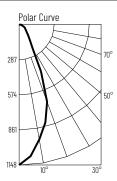
Vertical Angles	Candela
0	1880
5	1674
15	1017
25	292
35	98
45	78

# **Test Information**

Test Number: NTR2234R1 Part Number: NIOB-2RPH40XMPW/10 Beam Spread: 44° Narrow Flood

Lumens: 830lm Wattage: 13.41W Efficacy: 62lpw

CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.72 Spacing Criteria (90°-270°): 0.72



# Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	71.8fc	3'-2"
6'	31.9fc	4'-10"
8'	17.9fc	6'-6"
10'	11.5fc	8'-1"
12'	8fc	9'-8"

# Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	526	63.4
0-40	627	75.5
0-60	751	90.5
0-90	830	100
90-180	0	0
0-180	830	100

## Candela Table

Vertical Angles	Candela
0	1148
5	1081
15	830
25	425
35	157
45	85

# **Lumen Output Multipliers**

Color Temperature: 2700K (0.83), 3000K (0.86), 3500K (089), 4000K (1.00), 5000K (1.01)