

NIOB-2RNDNC

2" Iolite Round Reflector with Round Aperture

Source: 14W to 28W LED
800lm to 2500lm

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

2" Iolite LED downlights require a dedicated Iolite new construction or remodel housing. Deep regressed cone reflectors optimize visual cut-off.

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.

OPTICS

800-1000lm: Three field changeable optics (spot, narrow flood and 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 also available.
1500-2500lm: Three field changeable TIR optics (spot, narrow flood and flood) are included with each LED module.

ELECTRICAL

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

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 Iolite housings manufactured by Nora Lighting.

CATALOG NO.	DESCRIPTION	LUMENS / WATTAGE
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

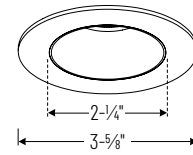
Accessories: Luminaires can accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see accessories page. Flush mount mud ring is available to give the appearance of a trimless, compatible with new construction housing only.

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



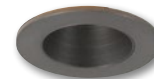
NIOB-2RNDNC
Round Deep Reflector
Non-Adjustable



BB
Black Reflector
Black Flange



BW
Black Reflector
White Flange



BZ
Bronze Reflector
Bronze Flange



CHMPW
Champagne Haze Reflector
Matte Powder White Flange



CMPW
Specular Clear Reflector
Matte Powder White Flange



HW
Haze Reflector
White Flange



HZMPW
Haze Reflector
Matte Powder White Flange



MPW
Matte Powder White Reflector
Matte Powder White Flange



NN
Natural Metal Reflector
Natural Metal Flange



WW
White Reflector
White Flange

2" Iolite Round Reflector with Round Aperture - Dedicated Housing Required

Color Temperature	Finish	Lumens / Wattage
NIOB-2RNDNC50X = 5000K*	BB = Black / Black	(blank) = 800lm / 14W
NIOB-2RNDCCDX = Comfort Dim [†]	BW = Black / White	
	BZ = Bronze / Bronze	
NIOB-2RNDNC27X = 2700K	CHMPW = Champagne / Matte Powder White	/10 = 1000lm / 14W
NIOB-2RNDNC30X = 3000K	CMPW = Specular Clear / Matte Powder White	/HL = 1500-2500lm
NIOB-2RNDNC35X = 3500K	HW = Haze / White	(varies by housing)
NIOB-2RNDNC40X = 4000K	HZMPW = Haze / Matte Powder White	
NIOB-2RNDNC50X = 5000K	MPW = Matte Powder White	
NIOB-2RNDCCDX = Comfort Dim [†]	NN = Natural Metal / Natural Metal	
	WW = White / White	

* 5000K LED modules in 800lm are while supplies last

[†] Comfort Dim available in 800lm & /HL only, 1" Iolite uses a different dimming curve than 2" & 4" Iolite

Compatible Housings

Housing Type
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

Example: **NIOB-2RNDNC50XWW** = 2" Iolite Round Reflector with Round Aperture, 5000K, White finish, 800lm / 14W

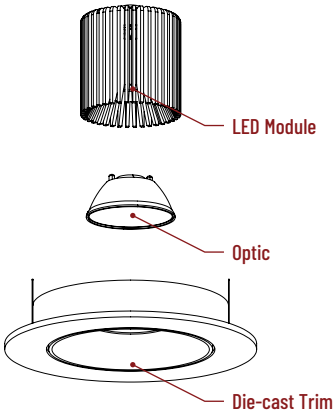
2" Iolite Accessories

2" Iolite Round Reflector with Round Aperture

Type
Project
Catalog No.
Notes

FIELD CHANGEABLE OPTICS

Iolite 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
NIO-REFL60FR

60° Optic
73° Optic

Not compatible with /HL LED module.



Premium TIR Optics

NIO-REFLTIR15
NIO-REFLTIR25

22° Optic
26° Optic

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

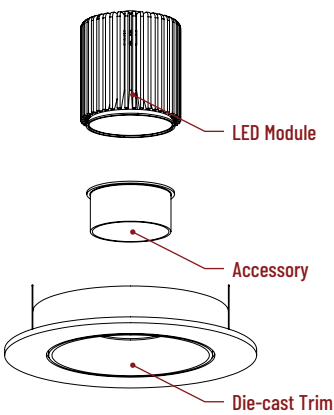


10° TIR Optic Assembly

Specialized narrow spot LED module assembly is also available. Requires LE4 housing, [Click Here](#) for more information.

ACCESSORIES

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.





Translucent Decorative Collar

NIO-AS14(color)
NIO-AS19(color)
NIO-AS26(color)
Color:
AM (amber), BLU (blue), FR (frosted), R (red)

5/8" length
3/4" length
1" length

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.

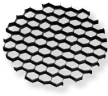


Opaque Collar Snoot

NIO-AS14(color)
NIO-AS19(color)
NIO-AS26(color)
Color:
MPW (matte powder white), WH (white)

5/8" length
3/4" length
1" length

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" 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 NH10ICD-28 or NH10ICDCP-28 new construction housings and NIOB-2R trims. Dimensions: 7-7/8" diameter 1/2" thick

PHOTOMETRICS

2" Iolite Round Reflector with Round Aperture

1000 lumens

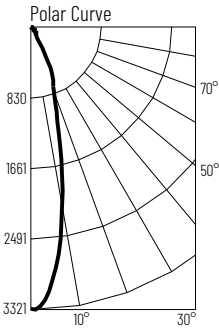
Type

Project

Catalog No.

Notes

Test Information
Test Number: NTR11271R2
Part Number: NIOB-2RND030XWW/10
Beam Spread: 25° Spot
Lumens: 1105lm
Wattage: 13.78W
Efficacy: 80lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.42
Spacing Criteria (90°-270°): 0.44



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	207fc	1'-10"
6'	9fc	2'-7"
8'	51.8fc	3'-6"
10'	33.1fc	4'-5"
12'	23fc	5'-4"

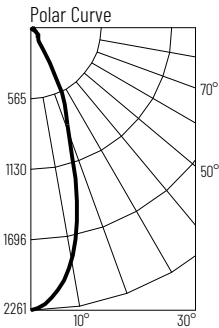
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	869	78.7
0-40	944	85.5
0-60	1055	95.5
0-90	1105	100
90-180	0	0
0-180	1105	100

Candela Table

Vertical Angles	Candela
0	3313
5	2927
15	1297
25	619
35	115
45	83

Test Information
Test Number: NTR11270R2
Part Number: NIOB-2RND030XWW/10
Beam Spread: 35° Narrow Flood
Lumens: 1088lm
Wattage: 13.8W
Efficacy: 79lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.6
Spacing Criteria (90°-270°): 0.6



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	141fc	2'-6"
6'	62.8fc	3'-10"
8'	35.3fc	5'-1"
10'	22.6fc	6'-5"
12'	15.7fc	7'-7"

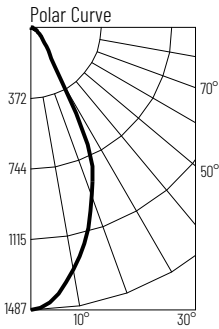
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	850	78.1
0-40	918	84.3
0-60	1036	95.2
0-90	1088	100
90-180	0	0
0-180	1088	100

Candela Table

Vertical Angles	Candela
0	3313
5	2927
15	1297
25	619
35	115
45	83

Test Information
Test Number: NTR11269R2
Part Number: NIOB-2RND030XWW/10
Beam Spread: 50° Flood
Lumens: 1068lm
Wattage: 13.84W
Efficacy: 77lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.78
Spacing Criteria (90°-270°): 0.76



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	92.9fc	3'-8"
6'	41.3fc	5'-7"
8'	23.2fc	7'-6"
10'	14.9fc	9'-4"
12'	10.3fc	11'-2"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	763	71.4
0-40	887	83
0-60	1011	94.7
0-90	1068	100
90-180	0	0
0-180	1068	100

Candela Table

Vertical Angles	Candela
0	1487
5	1430
15	1135
25	744
35	185
45	89

Lumen Output Multipliers
Color Temperature: 2700K (0.98), 3000K (1.00), 3500K (1.09), 4000K (1.19), 5000K (1.16)

PHOTOMETRICS

2" Iolite Round Reflector with Round Aperture

1500 lumens

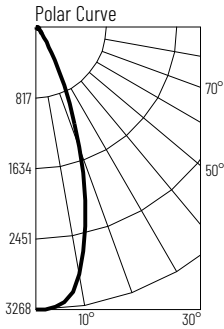
Type

Project

Catalog No.

Notes

Test Information
Test Number: NTR1422
Part Number: NIOB-2RNDC30XWW/HL
Beam Spread: 38° Spot
Lumens: 1667lm
Wattage: 19.8W
Efficacy: 84lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.64
Spacing Criteria (90°-270°): 0.64



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	90.8fc	4'-1"
8'	51.1fc	5'-6"
10'	32.7fc	6'-11"
12'	22.7fc	8'-4"
14'	16.7fc	9'-7"

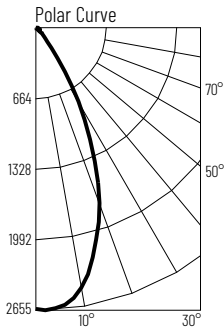
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1315	78.9
0-40	1473	88.4
0-60	1600	96
0-90	1662	99.7
90-180	5	0.3
0-180	1667	100

Candela Table

Vertical Angles	Candela
0	3267
5	3216
15	2243
25	862
35	246
45	90

Test Information
Test Number: NTR1425
Part Number: NIOB-2RNDC30XWW/HL
Beam Spread: 48° Narrow Flood
Lumens: 1843lm
Wattage: 19.86W
Efficacy: 93lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.78
Spacing Criteria (90°-270°): 0.8



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	73.4fc	5'-5"
8'	41.3fc	7'-1"
10'	26.4fc	8'-11"
12'	18.3fc	10'-8"
14'	13.5fc	12'-6"

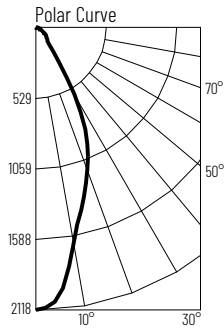
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1401	76
0-40	1663	90.2
0-60	1783	96.8
0-90	1838	99.7
90-180	5	0.3
0-180	1843	100

Candela Table

Vertical Angles	Candela
0	2642
5	2600
15	2101
25	1236
35	401
45	93

Test Information
Test Number: NTR1428
Part Number: NIOB-2RNDC30XWW/HL
Beam Spread: 44° Flood
Lumens: 1416lm
Wattage: 19.65W
Efficacy: 72lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.66
Spacing Criteria (90°-270°): 0.66



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	58.8fc	4'-10"
8'	33.1fc	6'-5"
10'	21.2fc	8'
12'	14.7fc	9'-7"
14'	10.8fc	11'-2"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	971	68.6
0-40	1159	81.9
0-60	1329	93.8
0-90	1413	99.8
90-180	3	0.2
0-180	1416	100

Candela Table

Vertical Angles	Candela
0	2118
5	2012
15	1366
25	901
35	273
45	122

PHOTOMETRICS

2" Iolite Round Reflector with Round Aperture

2000 lumens

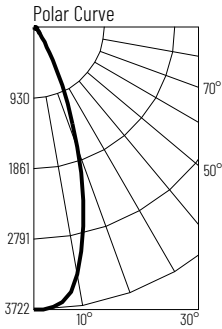
Type

Project

Catalog No.

Notes

Test Information
Test Number: NTR1423
Part Number: NIOB-2RNDC30XWW/HL
Beam Spread: 38° Spot
Lumens: 1892lm
Wattage: 23.54W
Efficacy: 80lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.64
Spacing Criteria (90°-270°): 0.64



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	58.1fc	5'-6"
10'	37.2fc	6'-11"
12'	25.8fc	8'-4"
14'	19fc	9'-8"
16'	14.5fc	11'

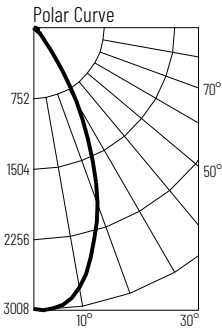
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1495	79
0-40	1663	87.9
0-60	1816	96
0-90	1886	99.7
90-180	6	0.3
0-180	1892	100

Candela Table

Vertical Angles	Candela
0	3718
5	3663
15	2562
25	973
35	276
45	101

Test Information
Test Number: NTR1426
Part Number: NIOB-2RNDC30XWW/HL
Beam Spread: 48° Narrow Flood
Lumens: 2088lm
Wattage: 23.6W
Efficacy: 88lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.78
Spacing Criteria (90°-270°): 0.8



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	46.8fc	7'-1"
10'	29.9fc	8'-11"
12'	20.8fc	10'-8"
14'	15.3fc	12'-6"
16'	11.7fc	14'-4"

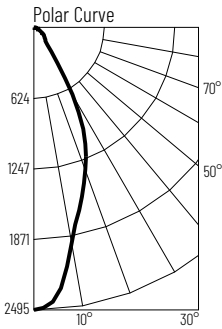
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1588	76.1
0-40	1885	90.3
0-60	2020	96.8
0-90	2081	99.7
90-180	6	0.3
0-180	2088	100

Candela Table

Vertical Angles	Candela
0	2993
5	2948
15	2381
25	1402
35	453
45	105

Test Information
Test Number: NTR1429
Part Number: NIOB-2RNDC30XWW/HL
Beam Spread: 44° Flood
Lumens: 1666lm
Wattage: 23.53W
Efficacy: 71lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.66
Spacing Criteria (90°-270°): 0.68



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	38.9fc	6'-5"
10'	24.9fc	8'
12'	17.3fc	9'-7"
14'	12.7fc	11'-2"
16'	9.7fc	12'-10"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1142	68.5
0-40	1349	81
0-60	1561	93.7
0-90	1661	99.7
90-180	5	0.3
0-180	1666	100

Candela Table

Vertical Angles	Candela
0	2492
5	2372
15	1606
25	1063
35	320
45	144

Lumen Output Multipliers
Color Temperature: 2700K (0.94), 3000K (1.00), 3500K (1.13), 4000K (1.13), 5000K (1.2)

PHOTOMETRICS

2" Iolite Round Reflector with Round Aperture

2500 lumens

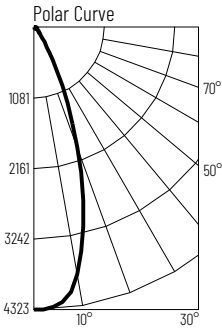
Type

Project

Catalog No.

Notes

Test Information
Test Number: NTR1424
Part Number: NIOB-2RNDC30XWW/HL
Beam Spread: 38° Spot
Lumens: 2142lm
Wattage: 28.47W
Efficacy: 75lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.64
Spacing Criteria (90°-270°): 0.64



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	43.fc	6'-10"
12'	30fc	8'-2"
14'	22fc	8'-4"
16'	16.9fc	10'-11"
18'	13.3fc	12'-4"

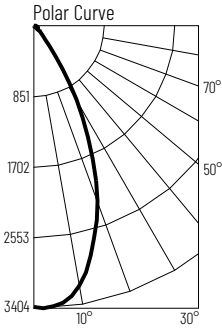
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1703	79.5
0-40	1886	88.1
0-60	2057	96
0-90	2134	99.6
90-180	8	0.4
0-180	2142	100

Candela Table

Vertical Angles	Candela
0	4318
5	4253
15	2944
25	1076
35	299
45	114

Test Information
Test Number: NTR1427
Part Number: NIOB-2RNDC30XWW/HL
Beam Spread: 48° Narrow Flood
Lumens: 2359lm
Wattage: 28.08W
Efficacy: 84lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.78
Spacing Criteria (90°-270°): 0.8



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	33.8fc	8'-11"
12'	23.5fc	10'-8"
14'	20.8fc	10'-8"
16'	13.2fc	14'-4"
18'	10.4fc	16"

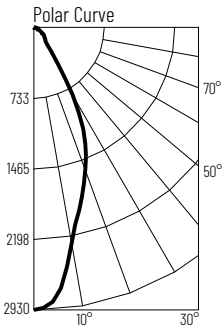
Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1796	76.1
0-40	2130	90.3
0-60	2283	96.8
0-90	2352	99.7
90-180	7	0.3
0-180	2359	100

Candela Table

Vertical Angles	Candela
0	3385
5	3331
15	2691
25	1583
35	508
45	118

Test Information
Test Number: NTR1430
Part Number: NIOB-2RNDC30XWW/HL
Beam Spread: 44° Flood
Lumens: 1950lm
Wattage: 28.32W
Efficacy: 69lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.66
Spacing Criteria (90°-270°): 0.68



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	29.1fc	8'
12'	20.2fc	9'-7"
14'	17.3fc	9'-7"
16'	11.4fc	12'-10"
18'	9fc	14'-5"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1336	68.5
0-40	1579	80.9
0-60	1827	93.7
0-90	1945	99.7
90-180	6	0.3
0-180	1950	100

Candela Table

Vertical Angles	Candela
0	2910
5	2763
15	1878
25	1243
35	371
45	168

Lumen Output Multipliers
Color Temperature: 2700K (0.96), 3000K (1.00), 3500K (1.14), 4000K (1.16), 5000K (1.24)