

NI0B-2RNDC

2" Iolite Round Reflector with Round Aperture

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. Deep regressed cone reflectors optimize visual cut-off.

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 (flood, narrow flood and spot). Premium 15° and 25° TIR optics are also available.

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

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

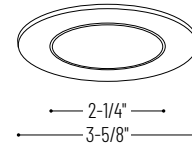
Accessories: Reflectors will accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see accessories page. Flush mount mud ring is available to give the appearance of a trimless reflector, compatible with new construction housing only.

LABELS AND LISTINGS

- cULus Listed for Wet Locations
- ENERGY STAR certified
- [5-Year Limited Warranty](#)
- RoHS Compliant
- Can be used to comply with 2019 Title 24 - part 6 High Efficacy LED light source requirements



PRODUCT IMAGES & DIMENSIONS



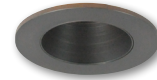
NI0B-2RNDC
Round Deep Reflector
Non-Adjustable



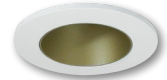
BB
Black Reflector
Black Flange



BW
Bronze Reflector
White Flange



BZ
Bronze Reflector
Bronze Flange



CHMPW
Champagne Haze 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

Reflector Type	Color Temp.	Finish	Lumens / Wattage
NI0B-2RNDC = Round Reflector with Round Aperture	27X = 2700K	BB = Black / Black	(blank) = 800lm / 14W
	30X = 3000K	BW = Black / White	/10 = 1000lm / 14W
	35X = 3500K	BZ = Bronze / Bronze	/HL = 1500-2500lm
	40X = 4000K	CHMPW = Champagne / Matte Powder White	(varies by housing)
	50X = 5000K	HW = Haze / White	
	CDX = Comfort Dim [†]	HZMPW = Haze / Matte Powder White	
		MPW = Matte Powder White	
		NN = Natural Metal / Natural Metal	
		WW = White / White	

[†] 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-2RNDC27XWW** = 2" Iolite Round Reflector with Round Aperture, 2700K, White finish, 800lm / 14W

2" Iolite Accessories

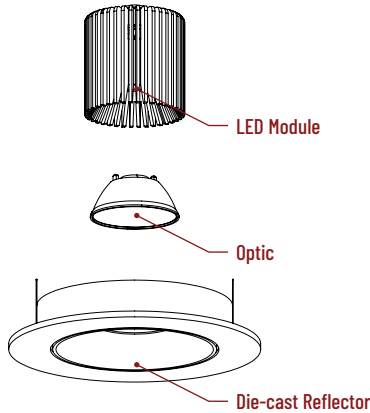
2" Iolite Round Reflector with Round Aperture

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	15° Optic
NIO-REFL25FR	25° Optic
NIO-REFL38FR	38° Optic
NIO-REFL60FR	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	15° Optic
NIO-REFLTIR25	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)	

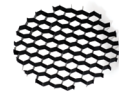
Translucent collars color the aperture with the specified color while producing white general light. Collars are available in different lengths. Use to add interest, create a theme, match a theme or define a space.



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)



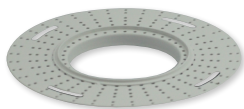
Hex Cell Louver

NIO-HC	Black
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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
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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 reflectors.**
Dimensions: 7-7/8" diameter 1/2" thick

PHOTOMETRICS

2" Iolite Round Reflector with Round Aperture
800 lumens

Type

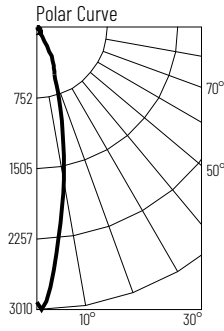
Project

Catalog No.

Notes

Test Information

Test Number: NTR11267
Part Number: NI0B-2RNDC30XWW
Beam Spread: 23° Spot
Lumens: 831lm
Wattage: 14.04W
Efficacy: 59lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.38
Spacing Criteria (90°-270): 0.4



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	183fc	1'-7"
6'	81.5fc	2'-5"
8'	45.8fc	3'-2"
10'	29.3fc	4'
12'	20.4fc	4'-10"

Zonal Lumen Summary

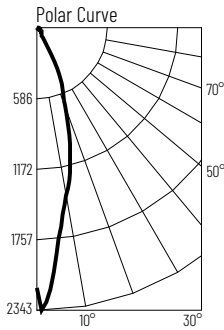
Zone	Lumens	% Luminaire
0-30	661	79.6
0-40	712	85.7
0-60	790	95.1
0-90	828	99.6
90-180	3	0.4
0-180	831	100

Candela Table

Vertical Angles	Candela
0	2933
5	2325
15	1007
25	417
35	72
45	57

Test Information

Test Number: NTR11266
Part Number: NI0B-2RNDC30XWW
Beam Spread: 29° Narrow Flood
Lumens: 812lm
Wattage: 14.16W
Efficacy: 57lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.48
Spacing Criteria (90°-270): 0.5



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	135fc	2'
6'	60fc	2'-11"
8'	33.7fc	3'-11"
10'	21.6fc	4'-11"
12'	15fc	5'-11"

Zonal Lumen Summary

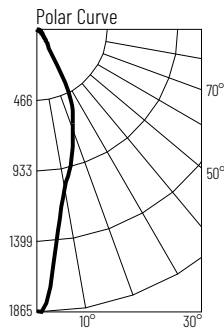
Zone	Lumens	% Luminaire
0-30	642	79.1
0-40	693	85.4
0-60	772	95.1
0-90	811	99.8
90-180	2	0.2
0-180	812	100

Candela Table

Vertical Angles	Candela
0	2158
5	1690
15	1032
25	448
35	70
45	56

Test Information

Test Number: NTR11268
Part Number: NI0B-2RNDC30XWW
Beam Spread: 28° Flood
Lumens: 834lm
Wattage: 14.23W
Efficacy: 59lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.44
Spacing Criteria (90°-270): 0.44



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	116fc	2'
6'	51.7fc	2'-11"
8'	29.1fc	3'-11"
10'	18.6fc	4'-11"
12'	12.9fc	5'-11"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	608	72.9
0-40	698	83.7
0-60	789	94.6
0-90	832	99.8
90-180	2	0.2
0-180	834	100

Candela Table

Vertical Angles	Candela
0	1860
5	1441
15	888
25	549
35	133
45	66

Lumen Output Multipliers

Color Temperature: 2700K (0.97), 3000K (1.00), 3500K (1.04), 4000K (1.16), 5000K (1.17)

PHOTOMETRICS

2" Iolite Round Reflector with Round Aperture 1000 lumens

Type

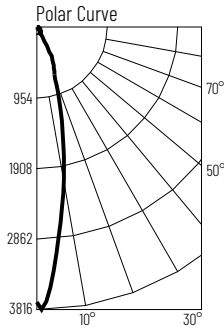
Project

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Notes

Test Information

Test Number: NTR11271
Part Number: NI0B-2RNDC30XWW/10
Beam Spread: 23° Spot
Lumens: 1090lm
Wattage: 13.1W
Efficacy: 83lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.4
Spacing Criteria (90°-270): 0.4



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	237fc	1'-7"
6'	105fc	2'-6"
8'	59.2fc	3'-4"
10'	37.9fc	4'-1"
12'	26.3fc	4'-11"

Zonal Lumen Summary

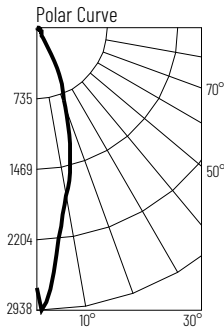
Zone	Lumens	% Luminaire
0-30	869	79.7
0-40	935	85.8
0-60	1037	95.1
0-90	1086	99.6
90-180	4	0.4
0-180	1090	100

Candela Table

Vertical Angles	Candela
0	3788
5	3107
15	1341
25	547
35	95
45	74

Test Information

Test Number: NTR11270
Part Number: NI0B-2RNDC30XWW/10
Beam Spread: 29° Narrow Flood
Lumens: 1058lm
Wattage: 13.1W
Efficacy: 81lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.48
Spacing Criteria (90°-270): 0.5



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	174fc	2'
6'	77.3fc	3'
8'	43.5fc	4'-1"
10'	27.8fc	5'-1"
12'	19.3fc	6'-1"

Zonal Lumen Summary

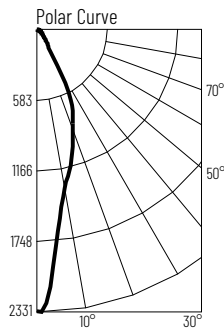
Zone	Lumens	% Luminaire
0-30	833	78.8
0-40	900	85.1
0-60	1003	94.8
0-90	1054	99.7
90-180	4	0.3
0-180	1058	100

Candela Table

Vertical Angles	Candela
0	2782
5	2171
15	1340
25	591
35	92
45	74

Test Information

Test Number: NTR11269
Part Number: NI0B-2RNDC30XWW/10
Beam Spread: 29° Flood
Lumens: 1070lm
Wattage: 13.1W
Efficacy: 82lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.44
Spacing Criteria (90°-270): 0.46



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	146fc	2'
6'	64.8fc	3'
8'	36.4fc	4'-1"
10'	23.3fc	5'-1"
12'	16.2fc	6'-1"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	777	72.6
0-40	895	83.6
0-60	1012	94.6
0-90	1068	99.8
90-180	2	0.2
0-180	1070	100

Candela Table

Vertical Angles	Candela
0	2331
5	1821
15	1131
25	706
35	175
45	85

Lumen Output Multipliers

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