

NIOC-2RNB

2" Iolite Can-less Round Bullnose

Source: 12W LED

1200lm or 1550lm

PRODUCT DESCRIPTION

2" Iolite can-less downlights can be installed in new construction or remodel applications. Deep regressed cone reflectors optimize visual cut-off.

FEATURES

- No housing required - IC Airtight rated
- Easy installation for remodel or new construction applications
- Variety of trim accessories to configure desired appearance
- Quick disconnect allows for extended lengths
- Dedicated CCT or Comfort Dim (warm dim)
- Flood optic, narrow flood and spot optics (included)
- 5-Year limited warranty
- cULus Listed for Wet Locations

SPECIFICATION

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

Air Flow Restriction: Luminaire has factory installed gasket to restrict airflow from room into ceiling plenum to <2CFM (cubic feet per minute) in accordance with ASTM 283 airtight requirements.

Clearance: IC rated luminaires are rated for direct contact with insulation (not spray foam insulation), no minimum clearance is required.

Driver Box: Prewired junction box includes 16.5" quick connect wire to LED module for ease of installation. Junction box includes two 1/2" trade size knockouts and snap on cover.

Maximum length between luminaire and driver is 40'. For longer remote driver remote run length, consult factory.

Mounting: No housing is required, two tensions steel spring clips secure luminaire to ceiling. Accommodates ceiling thickness up to 3/4". New construction frame-in kit is available, see accessories.

OPTICS

Each module includes field changeable optics (spot, narrow flood and flood - preinstalled).

ELECTRICAL

Input Voltage: 120VAC or 120-277VAC (must specify)

Lumens / Wattage: 1200lm or 1550lm / 12W

Color Temperature: 2700K, 3000K, 3500K, 4000K, or Comfort Dim (warm dim)

Color Rendering Index: 90+CRI

Operating Temperature: 0°-30°C

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 1000lm *only*.

Dimming: Phase (Triac/ELV) or 0-10V (must specify)

[Click Here](#) or check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab.

Accessories: Luminaire will accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see accessories page.

Emergency: Luminaire is compatible with NEPK-23LEDUNV (ordered separately). Remote mounted battery operates luminaire for 90 minute emergency operation with a fully charged battery. Emergency includes remote test switch, ribbon test switch accessory (NEPKA-20/23LEDRTS) ordered separately.

LABELS AND LISTINGS

- cULus Listed for Wet Locations
- [5-Year Limited Warranty](#)
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2025



Type

Project

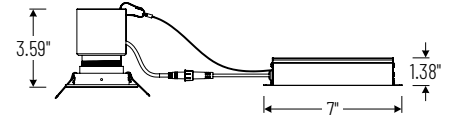
Catalog No.

Notes

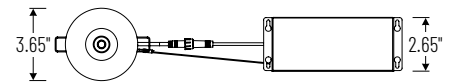
Performance Data

Part Numbers	Lumens	Optic	CCT
NIOC-2RNBMPW NIOC-24LED940X NJCB-12	1236lm	26° Spot	4000K
	1243lm	37° NFL	
	1238lm	63° Flood	
NIOC-2RNBMPW NIOC-24LEDHL940X NJCB-12	1584lm	26° Spot	4000K
	1592lm	37° NFL	
	1587lm	63° Flood	

Delivered lumens will vary depending on CCT, optic and finish



Cut out: 3-1/8"



2" Iolite Can-less Round Bullnose Trim



BB
Black



BZ
Bronze



MPW
Bright White



WW
Warm White

Item Number

- **NIOC-2RNB** = Black Finish
- **NIOC-2RNBZ** = Bronze Finish
- **NIOC-2RNBMPW** = Bright White Finish
- **NIOC-2RNBWW** = Warm White Finish

2" & 4" Iolite Can-less LED Module



Lumens	Color Temperature
■ NIOC-24LED = 1200lm	■ 927X = 2700K
■ NIOC-24LEDHL = 1650lm	■ 930X = 3000K
	■ 935X = 3500K
	■ 940X = 4000K
■ NIOC-24LED = 1000lm	■ 9CDX = Comfort Dim (3100K-2000K)

Driver Box



Wattage

- **NJCB-12** = 12W / 120VAC input / Phase (Triac/ELV) dimming
- **NJCB-12LE4** = 12W / 120-277VAC input / Triac/ELV or 0-10V dimming

Example: **NIOC-2RNBMPW / NIOC-24LED930X / NJCB-12** = 2" Iolite Can-less Bullnose Trim, Bright White finish, 1200lm / 3000K LED Module, 12W Driver Box with 120VAC input; Phase dimming

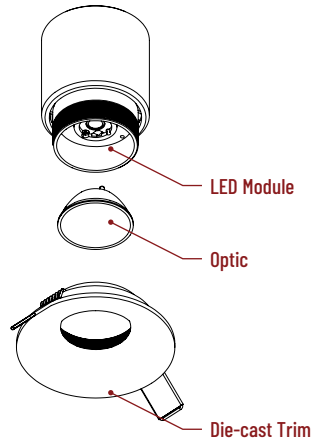
NIOC-2RNB

2" Iolite Can-less Round Bullnose Accessories

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 and TIR optics are also available.



Frosted Optics

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

Optic assembly includes optional frosted lens



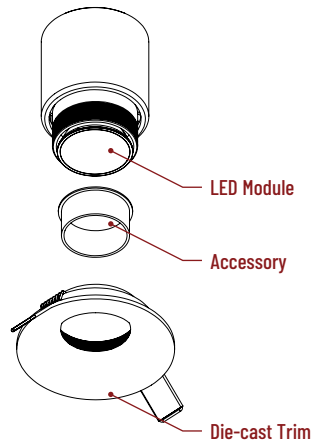
Premium TIR Optics

NIO-REFLTIR15 22° Optic
NIO-REFLTIR25 26° Optic

TIR optics are not compatible with Comfort Dim LED modules or hex cell louver accessory.

TRIM 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) 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-AS14WH 5/8" length (warm white)
NIO-AS19MPW 3/4" length (bright white)
NIO-AS19WH 3/4" length (warm 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 50%.

Hex cell louver is not compatible with TIR optics.

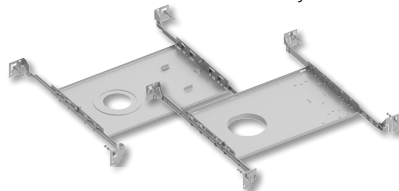
MOUNTING ACCESSORIES & REMOTE EMERGENCY

Iolite canless luminaires are ready to be installed out of the box. Additional mounting accessories can be used to assist during installation or extend length between driver box and luminaire.



Quick Connect Extension Cables

NCA-EW-4 4' Cable
NCA-EW-10 10' Cable
Use to extend the length between luminaire and driver box. Can be connected together to create custom lengths. Maximum length between luminaire and driver is 40'. For longer remote driver remote run length, consult factory.



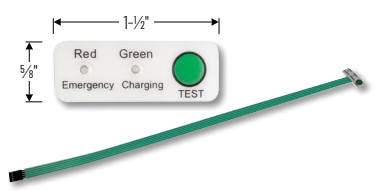
New Construction Frame-In

NF-R124 without Collar
NFC-R313 with Collar
Universal new construction frame-in can be used to assist installing can-less recessed downlighting.



23W Emergency Driver w/Remote Switch

NEPK-23LEDUNV Driver only
NEPK-23LEDUNV-JB Driver w/ J-Box
120-277V Emergency LED driver operates luminaire for 90 minute emergency operation with a fully charged battery. Requires 24 hours to charge the battery.



Ribbon Test Switch for NEPK-23LEDUNV

NEPKA-20/23LEDRTS
Ribbon test switch replaces remote test switch included with emergency driver. Double sided tape is pre-installed.

PHOTOMETRICS

2" Iolite Can-less Round Bullnose

1200 lumens

Type

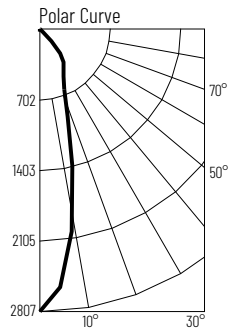
Project

Catalog No.

Notes

Test Information

Test Number: NTR2039R2
Part Number: NIOC-2RNB40XMPW
Beam Spread: 26° Spot
Lumens: 1236lm
Wattage: 11.64W
Efficacy: 106lpw
CCT / CRI: 4000K / 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'	175fc	1'-10"
6'	78fc	2'-10"
8'	43.9fc	3'-8"
10'	28.1fc	4'-7"
12'	19.5fc	5'-6"

Zonal Lumen Summary

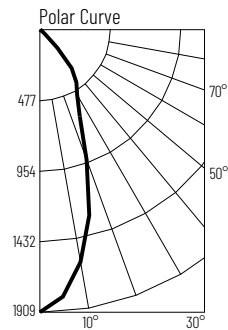
Zone	Lumens	% Luminaire
0-30	791	64
0-40	1045	84.6
0-60	1222	98.9
0-90	1236	100
90-180	0	0
0-180	1236	100

Candela Table

Vertical Angles	Candela
0	2807
5	2562
15	1131
25	533
35	407
45	218

Test Information

Test Number: NTR2040R2
Part Number: NIOC-2RNB40XMPW
Beam Spread: 37° Narrow Flood
Lumens: 1243lm
Wattage: 11.64W
Efficacy: 107lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.62
Spacing Criteria (90°-270°): 0.62



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	119fc	2'-7"
6'	53fc	4'
8'	29.8fc	5'-4"
10'	19.1fc	6'-7"
12'	13.3fc	7'-11"

Zonal Lumen Summary

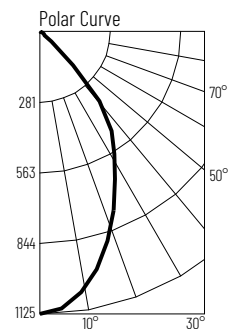
Zone	Lumens	% Luminaire
0-30	779	62.6
0-40	1004	80.8
0-60	1225	98.6
0-90	1243	100
90-180	0	0
0-180	1243	100

Candela Table

Vertical Angles	Candela
0	1909
5	1859
15	1245
25	569
35	399
45	235

Test Information

Test Number: NTR2041R2
Part Number: NIOC-2RNB40XMPW
Beam Spread: 63° Flood
Lumens: 1238lm
Wattage: 11.64W
Efficacy: 106lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.88
Spacing Criteria (90°-270°): 0.88



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	70.3fc	4'-11"
6'	31.3fc	7'-4"
8'	17.6fc	9'-10"
10'	11.3fc	12'-2"
12'	7.8fc	14'-8"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	687	55.5
0-40	997	80.5
0-60	1214	98
0-90	1238	100
90-180	0	0
0-180	1238	100

Candela Table

Vertical Angles	Candela
0	1125
5	1101
15	939
25	700
35	498
45	254

Lumen Output Multipliers

Color Temperature: 2700K (0.89), 3000K (0.94), 3500K (0.98), 4000K (1.00), Comfort Dim (0.82)

Finish Multipliers

Bright White (1.00), Warm White (1.00)

PHOTOMETRICS

2" Iolite Can-less Round Bullnose

1550 lumens

Type

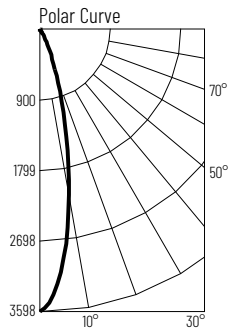
Project

Catalog No.

Notes

Test Information

Test Number: NTR7122R2
Part Number: NIOC-2RNB4025MPW_15
Beam Spread: 26° Narrow Flood
Lumens: 1584lm
Wattage: 11.56W
Efficacy: 137lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.46
Spacing Criteria (90°-270°): 0.44



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	56.2fc	3'-8"
10'	36.0fc	4'-7"
12'	25.0fc	5'-6"
14'	18.4fc	6'-5"
16'	14.1fc	7'-4"

Zonal Lumen Summary

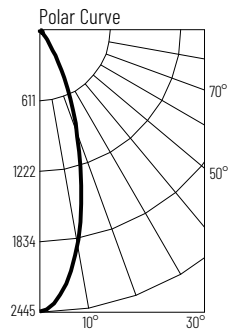
Zone	Lumens	% Luminaire
0-30	1014	64.0
0-40	1340	84.6
0-60	1567	98.9
0-90	1584	100
90-180	0	0
0-180	1584	100

Candela Table

Vertical Angles	Candela
0	3598
5	3284
15	1450
25	683
35	521
45	280

Test Information

Test Number: NTR7121R2
Part Number: NIOC-2RNB4038MPW_15
Beam Spread: 37° Narrow Flood
Lumens: 1592lm
Wattage: 11.56W
Efficacy: 138lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.6
Spacing Criteria (90°-270°): 0.62



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	38.2fc	5'-3"
10'	24.5fc	6'-7"
12'	17.0fc	7'-11"
14'	12.5fc	9'-3"
16'	9.6fc	10'-7"

Zonal Lumen Summary

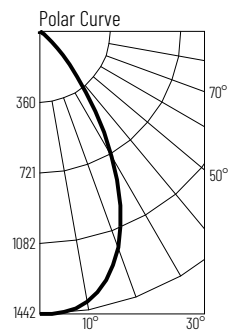
Zone	Lumens	% Luminaire
0-30	997	62.6
0-40	1333	83.7
0-60	1569	98.6
0-90	1592	100
90-180	0	0
0-180	1592	100

Candela Table

Vertical Angles	Candela
0	2445
5	2382
15	1595
25	729
35	512
45	302

Test Information

Test Number: NTR7120R2
Part Number: NIOC-2RNB4060MPW_15
Beam Spread: 63° Wide Flood
Lumens: 1587lm
Wattage: 11.56W
Efficacy: 137lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.86
Spacing Criteria (90°-270°): 0.88



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	22.5fc	9'-9"
10'	14.4fc	12'-3"
12'	10.0fc	14'-8"
14'	7.4fc	17'-1"
16'	5.6fc	19'-6"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	880	55.4
0-40	1277	80.5
0-60	1556	98.0
0-90	1587	100
90-180	0	0
0-180	1587	100

Candela Table

Vertical Angles	Candela
0	1442
5	1411
15	1203
25	897
35	639
45	325

Lumen Output Multipliers

Color Temperature: 2700K (0.89), 3000K (0.94), 3500K (0.98), 4000K (1.00)

Finish Multipliers

Bright White (1.00), Warm White (1.00)