NIOC-2RNDC

2" Iolite Can-less Round Downlight
Source: 12W LED
950lm or 1300lm

Type
Project
Catalog No.
Notes

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 ½" 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 ¾". 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: 950lm or 1300lm / 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 750lm 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.

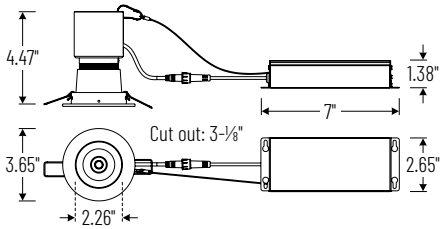
Emergency: Luminaire is compatible with NEPK-23LEDUNV (ordered separately). Remote mounted battery operates luminaire for 90 minute emergency operation with a fully charged battery. Emergency includes remote test switch, ribbon test switch accessory (NEPKA-20/23LEDRTS) ordered separately.

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

WET · NORA 5 YEAR LIMITED WARRANTY · UL CERTIFIED · TITLE 24 COMPLIANT · comfortDim Recreate the Sunset with LED

Performance Data			
Part Numbers	Lumens	Optic	CCT
NIOC-2RNDCMPW NIOC-24LED940X NJCB-12	980lm	27° Spot	4000K
	985lm	37° NFL	
	982lm	53° Flood	
NIOC-2RNDCMPW NIOC-24LEDHL940X NJCB-12	1320lm	27° Spot	4000K
	1327lm	37° NFL	
	1322lm	53° Flood	

Delivered lumens will vary depending on CCT, optic and finish



2" Iolite Can-less Round Downlight Trim



BB Black Reflector & Flange
BZ Bronze Reflector & Flange
HZMPW Haze Reflector Bright White Flange
MPW Bright White Reflector & Flange
NN Natural Metal Reflector & Flange
WW Warm White Reflector & Flange

Item Number
NIOC-2RNDCBB = Black Reflector / Black Flange
NIOC-2RNDCBZ = Bronze Reflector / Bronze Flange
NIOC-2RNDCHW = Haze Reflector / Warm White Flange
NIOC-2RNDCHZMPW = Haze Reflector / Bright White Flange
NIOC-2RNDCMPW = Bright White Reflector / Bright White Flange
NIOC-2RNDCNN = Natural Metal Reflector / Natural Metal Flange
NIOC-2RNDCWW = Warm White Reflector / Warm White Flange

2" & 4" Iolite Can-less LED Module



Three field changeable optics included

Lumens	Color Temperature
NIOC-24LED = 950lm **NIOC-24LEDHL** = 1300lm	**927X** = 2700K **930X** = 3000K **935X** = 3500K **940X** = 4000K
NIOC-24LED = 750lm	**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-2RNDCMPW / NIOC-24LED930X / NJCB-12** = 2" Iolite Can-less Round Downlight Trim, Bright White Reflector / Bright White Flange, 3000K LED Module, 12W Driver Box with 120VAC input; Phase dimming

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6505 Gayhart Street, Commerce, CA 90040
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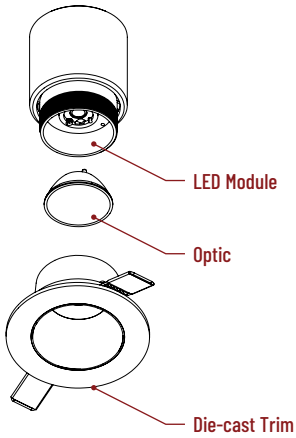
Iolite Can-less Accessories

2" Iolite Can-less Round Downlight

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



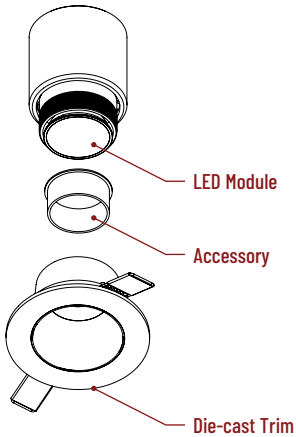
Premium TIR Optics

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)	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-AS14WH	⅝" length (warm white)
NIO-AS19MPW	¾" length (bright white)
NIO-AS19WH	¾" 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

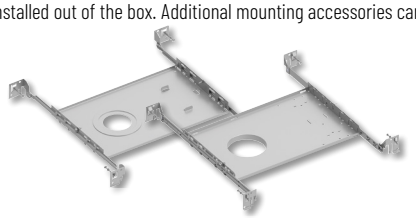
Iolite canless luminaires are ready to be installed out of the box. Additional mounting accessories can be used to assist during installation or extend length between driver box and luminaire.



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

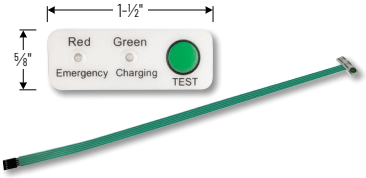
Universal new construction frame-in can be used to assist installing can-less recessed downlighting.



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.

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PHOTOMETRICS

2" Iolite Can-less Round Downlight
950 lumens

Type

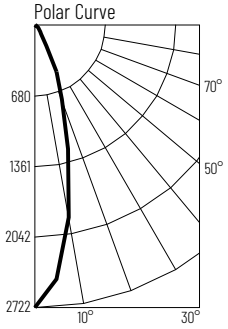
Project

Catalog No.

Notes

Test Information
Test Number: NTR2044R2
Part Number: NIOC-2RNDC4025MPW
Beam Spread: 27° Spot
Lumens: 980lm
Wattage: 11.65W
Efficacy: 84lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.46
Spacing Criteria (90°-270°): 0.46

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	170.1fc	1'-11"
6'	75.6fc	2'-10"
8'	42.5fc	3'-9"
10'	27.2fc	4'-9"
12'	18.9fc	5'-8"

Zonal Lumen Summary

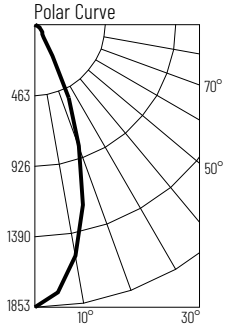
Zone	Lumens	% Luminaire
0-30	762	77.8
0-40	831	84.8
0-60	931	95.0
0-90	980	100
90-180	0	0
0-180	980	100

Candela Table

Vertical Angles	Candela
0	2722
5	2502
15	1145
25	520
35	94
45	73

Test Information
Test Number: NTR2045R2
Part Number: NIOC-2RNDC4038MPW
Beam Spread: 37° Narrow Flood
Lumens: 985lm
Wattage: 11.65W
Efficacy: 85lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.62
Spacing Criteria (90°-270°): 0.62

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	115.8fc	2'-8"
6'	51.5fc	4'
8'	29.0fc	5'-4"
10'	18.5fc	6'-8"
12'	12.9fc	8'

Zonal Lumen Summary

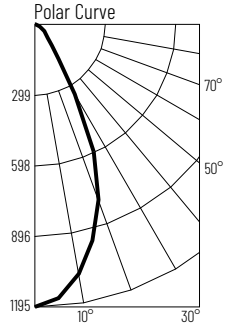
Zone	Lumens	% Luminaire
0-30	743	75.4
0-40	830	84.3
0-60	930	94.5
0-90	985	100
90-180	0	0
0-180	985	100

Candela Table

Vertical Angles	Candela
0	1853
5	1801
15	1240
25	531
35	103
45	74

Test Information
Test Number: NTR2046R2
Part Number: NIOC-2RNDC4060MPW
Beam Spread: 53° Flood
Lumens: 982lm
Wattage: 11.65W
Efficacy: 84lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.82
Spacing Criteria (90°-270°): 0.82

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	74.7fc	4'
6'	33.2fc	6'
8'	18.7fc	8'-1"
10'	11.9fc	10'-1"
12'	8.3fc	12'-1"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	670	68.3
0-40	802	81.7
0-60	922	93.9
0-90	982	100
90-180	0	0
0-180	982	100

Candela Table

Vertical Angles	Candela
0	1195
5	1163
15	969
25	659
35	183
45	87

Lumen Output Multipliers
Color Temperature: 2700K (0.86), 3000K (0.9), 3500K (0.94), 4000K (1.00), Comfort Dim (0.79)

Finish Multipliers
Finish: Haze (0.89), Bright White (1.00), Warm White (1.00)

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PHOTOMETRICS

2" Iolite Can-less Round Downlight
1300 lumens

Type

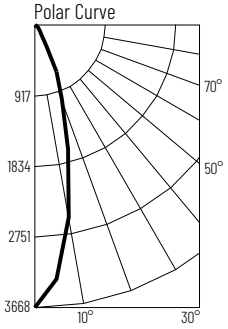
Project

Catalog No.

Notes

Test Information
Test Number: NTR7086R1
Part Number: NIOC-2RNDC4025MPW_15
Beam Spread: 27° Narrow Flood
Lumens: 1320lm
Wattage: 11.56W
Efficacy: 114lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.46
Spacing Criteria (90°-270°): 0.46

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	57.3fc	3'-9"
10'	36.7fc	4'-9"
12'	25.5fc	5'-8"
14'	18.7fc	6'-8"
16'	14.3fc	7'-7"

Zonal Lumen Summary

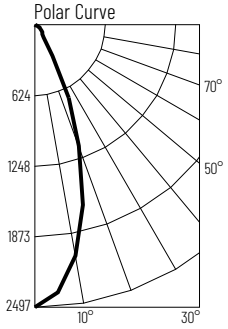
Zone	Lumens	% Luminaire
0-30	1028	77.8
0-40	1120	84.9
0-60	1254	95.0
0-90	1320	100
90-180	0	0
0-180	1320	100

Candela Table

Vertical Angles	Candela
0	3668
5	3372
15	1543
25	701
35	126
45	99

Test Information
Test Number: NTR7085R1
Part Number: NIOC-2RNDC4038MPW_15
Beam Spread: 37° Narrow Flood
Lumens: 1327lm
Wattage: 11.56W
Efficacy: 115lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.62
Spacing Criteria (90°-270°): 0.62

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	39.0fc	5'-4"
10'	25.0fc	6'-8"
12'	17.3fc	8'
14'	12.7fc	9'-4"
16'	9.8fc	10'-8"

Zonal Lumen Summary

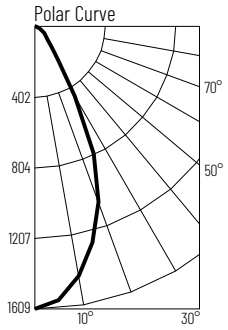
Zone	Lumens	% Luminaire
0-30	1001	75.4
0-40	1119	84.3
0-60	1254	94.5
0-90	1327	100
90-180	0	0
0-180	1327	100

Candela Table

Vertical Angles	Candela
0	2497
5	2428
15	1671
25	716
35	139
45	100

Test Information
Test Number: NTR7084R1
Part Number: NIOC-2RNDC4060MPW_15
Beam Spread: 53° Flood
Lumens: 1322lm
Wattage: 11.56W
Efficacy: 114lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.82
Spacing Criteria (90°-270°): 0.82

Polar Curve



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	25.1fc	8'-1"
10'	16.1fc	10'-1"
12'	11.2fc	12'-1"
14'	8.2fc	14'-1"
16'	6.3fc	16'-1"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	902	68.3
0-40	1080	81.7
0-60	1242	93.9
0-90	1322	100
90-180	0	0
0-180	1322	100

Candela Table

Vertical Angles	Candela
0	1609
5	1566
15	1305
25	887
35	247
45	118

Lumen Output Multipliers
Color Temperature: 2700K (0.86), 3000K (0.9), 3500K (0.94), 4000K (1.00)

Finish Multipliers
Finish: Haze (0.89), Bright White (1.00), Warm White (1.00)

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