

NIOC-4RNDNC

4" Iolite Can-less Round Downlight

Source: 12W LED

1150lm or 1500lm

PRODUCT DESCRIPTION

4" 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: 1150lm or 1500lm / 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 900lm 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

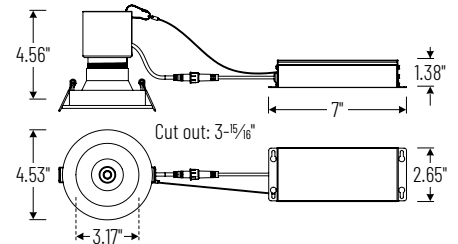
Catalog No.

Notes

Performance Data

Part Numbers	Lumens	Optic	CCT
NIOC-4RNDCMPW NIOC-24LED940X NJCB-12	1147lm	26° Spot	4000K
	1153lm	37° NFL	
	1150lm	59° Flood	
NIOC-4RNDCMPW NIOC-24LEDH940X NJCB-12	1523lm	26° Spot	4000K
	1531lm	37° NFL	
	1526lm	59° Flood	

Delivered lumens will vary depending on CCT, optic and finish



4" Iolite Can-less Round Downlight Trim



Item Number

- **NIOC-4RNDCCB** = Black Reflector / Black Flange
- **NIOC-4RNDCCBZ** = Bronze Reflector / Bronze Flange
- **NIOC-4RNDCCMPW** = Specular Clear Reflector / Bright White Flange
- **NIOC-4RNDCHZMPW** = Haze Reflector / Bright White Flange
- **NIOC-4RNDCHMPW** = Bright White Reflector / Bright White Flange
- **NIOC-4RNDCCWW** = Warm White Reflector / Warm White Flange

2" & 4" Iolite Can-less LED Module

Lumens	Color Temperature
■ NIOC-24LED = 1150lm	■ 927X = 2700K
■ NIOC-24LEDH = 1500lm	■ 930X = 3000K
	■ 935X = 3500K
	■ 940X = 4000K
■ NIOC-24LED = 900lm	■ 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-4RNDCMPW** / **NIOC-24LED930X** / **NJCB-12** = 4" Iolite Can-less Round Downlight Trim, Bright White Reflector / Bright White Flange, 3000K LED Module, 12W Driver Box with 120VAC input; Phase dimming

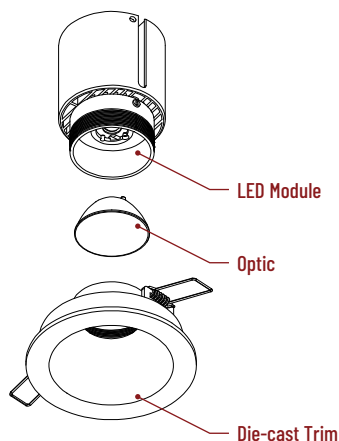
Iolite Can-less Accessories

4" 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
NIO-REFL60FR

60° Optic
73° Optic

Optic assembly includes optional frosted lens.



Premium TIR Optics

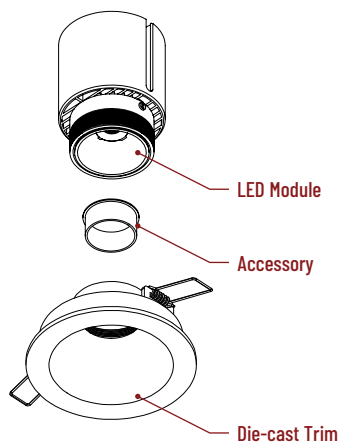
NIO-REFLTIR15
NIO-REFLTIR25

22° Optic
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)

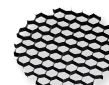
Translucent collars color the aperture with the specified color while producing white general light. Collars are available in different lengths. Use to add interest, create a theme, match a theme or define a space.



Opaque Collar Snoot

NIO-AS14WH 5/8" length / warm white finish
NIO-AS19MPW 3/4" length / bright white finish
NIO-AS19WH 3/4" length / warm white finish

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.

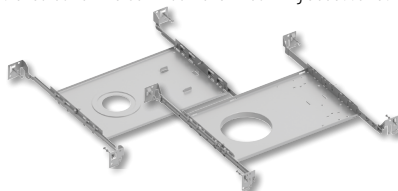
MOUNTING ACCESSORIES & REMOTE EMERGENCY

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.



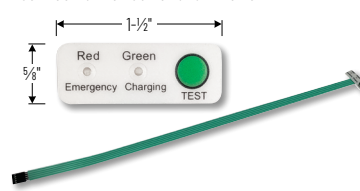
New Construction Frame-In

NF-R124 without Collar
NFC-R413 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

4" Iolite Can-less Round Downlight

1150 lumens

Type

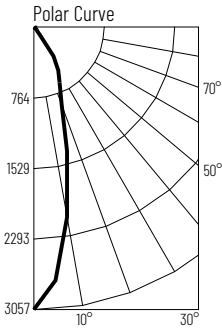
Project

Catalog No.

Notes

Test Information

Test Number: NTR6050R2
Part Number: NIOC-4RNDC40XMPW
Beam Spread: 26° Spot
Lumens: 1147lm
Wattage: 11.68W
Efficacy: 98lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.46
Spacing Criteria (90°-270°): 0.46



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	190fc	1'-11"
6'	84.6fc	2'-10"
8'	47.6fc	3'-8"
10'	30.5fc	4'-8"
12'	21.2fc	5'-7"

Zonal Lumen Summary

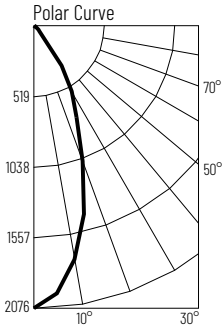
Zone	Lumens	% Luminaire
0-30	879	76.6
0-40	1056	92
0-60	1123	97.9
0-90	1147	100
90-180	0	0
0-180	1147	100

Candela Table

Vertical Angles	Candela
0	3046
5	2794
15	1259
25	601
35	322
45	54

Test Information

Test Number: NTR6046R2
Part Number: NIOC-4RNDC40XMPW
Beam Spread: 37° Narrow Flood
Lumens: 1153lm
Wattage: 11.68W
Efficacy: 99lpw
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'	130fc	2'-8"
6'	57.7fc	4'-1"
8'	32.4fc	5'-5"
10'	20.8fc	6'-10"
12'	14.4fc	8'-1"

Zonal Lumen Summary

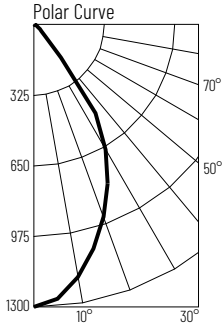
Zone	Lumens	% Luminaire
0-30	864	74.9
0-40	1052	91.2
0-60	1128	97.8
0-90	1153	100
90-180	0	0
0-180	1153	100

Candela Table

Vertical Angles	Candela
0	2076
5	2028
15	1373
25	646
35	354
45	54

Test Information

Test Number: NTR6042R2
Part Number: NIOC-4RNDC40XMPW
Beam Spread: 59° Flood
Lumens: 1150lm
Wattage: 11.68W
Efficacy: 98lpw
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'	81.3fc	4'-6"
6'	36.1fc	6'-10"
8'	20.3fc	9'-1"
10'	13fc	11'-4"
12'	9fc	13'-7"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	782	68.1
0-40	1035	90
0-60	1121	97.5
0-90	1150	100
90-180	0	0
0-180	1150	100

Candela Table

Vertical Angles	Candela
0	1300
5	1268
15	1078
25	794
35	449
45	67

Lumen Output Multipliers

Color Temperature: 2700K (0.88), 3000K (0.92), 3500K (0.96), 4000K (1.00), Comfort Dim (0.81)

Finish Multipliers

Finish: Haze (0.95), Bright White (1.00), Warm White (1.00)

PHOTOMETRICS

4" Iolite Can-less Round Downlight

1500 lumens

Type

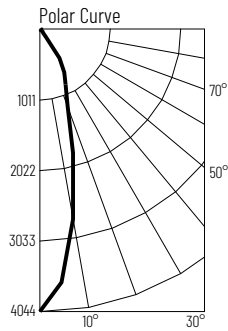
Project

Catalog No.

Notes

Test Information

Test Number: NTR6714R1
Part Number: NIOC-4RND0C4025MPW_15
Beam Spread: 26° Spot
Lumens: 1523lm
Wattage: 11.56W
Efficacy: 132lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.46
Spacing Criteria (90°-270°): 0.46



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	63.2fc	3'-9"
10'	40.4fc	4'-8"
12'	28.1fc	5'-8"
14'	20.6fc	6'-7"
16'	15.8fc	7'-6"

Zonal Lumen Summary

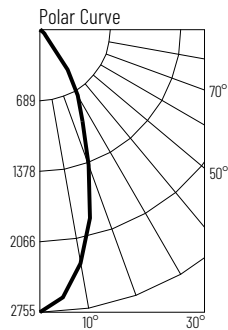
Zone	Lumens	% Luminaire
0-30	1167	76.6
0-40	1402	92.0
0-60	1491	97.9
0-90	1523	100
90-180	0	0
0-180	1523	100

Candela Table

Vertical Angles	Candela
0	4044
5	3708
15	1671
25	798
35	428
45	72

Test Information

Test Number: NTR6713R1
Part Number: NIOC-4RND0C4038MPW_15
Beam Spread: 37° Narrow Flood
Lumens: 1531lm
Wattage: 11.56W
Efficacy: 132lpw
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
8'	43.1fc	5'-5"
10'	27.6fc	6'-9"
12'	19.1fc	8'-1"
14'	14.1fc	9'-5"
16'	10.8fc	10'-10"

Zonal Lumen Summary

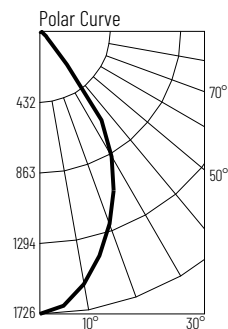
Zone	Lumens	% Luminaire
0-30	1147	75.0
0-40	1408	91.9
0-60	1497	97.8
0-90	1531	100
90-180	0	0
0-180	1531	100

Candela Table

Vertical Angles	Candela
0	2755
5	2692
15	1822
25	858
35	470
45	71

Test Information

Test Number: NTR6712R1
Part Number: NIOC-4RND0C4060MPW_15
Beam Spread: 59° Flood
Lumens: 1526lm
Wattage: 11.56W
Efficacy: 132lpw
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
8'	27.0fc	9'-1"
10'	17.3fc	11'-4"
12'	12.0fc	13'-7"
14'	8.8fc	15'-10"
16'	6.7fc	18'-2"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1038	68.0
0-40	1374	90.0
0-60	1487	97.5
0-90	1526	100
90-180	0	0
0-180	1526	100

Candela Table

Vertical Angles	Candela
0	1726
5	1683
15	1431
25	1054
35	596
45	89

Lumen Output Multipliers

Color Temperature: 2700K (0.88), 3000K (0.92), 3500K (0.96), 4000K (1.00)

Finish Multipliers

Finish: Haze (0.95), Bright White (1.00), Warm White (1.00)