NIOC-4RNDC

4" Iolite Can-less Round Downlight

Source: 12W LED 1200lm

PRODUCT DESCRIPTION

4" lolite 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 Air-Tight 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
- · ENERGY STAR certified
- · 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 Air-Tight 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 7" quick connect wire to LED module for ease of installation. Junction box includes two V" trade size knockouts and snap on cover.

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.

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

OPTICS

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

ELECTRICAL

Input Voltage: 120VAC

Lumens / Wattage: 1200lm / 12W

Color Temperature: 2700K, 3000K, 3500K or 4000K

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 875lm only.

Dimming: Triac or ELV

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

LABELS AND LISTINGS

- · cULus Listed for Wet Locations
- · ENERGY STAR certified
- · 5-Year Limited Warranty
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2022













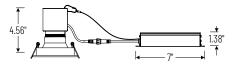
Type
Project
Catalog No.

Performance Data			
Part Number	Lumens	CCT	Optic
NIOC-4RNDC40XMPW	1223lm	4000K	Spot
NIOC-4RNDCOXMPW 1217Im 4000K Narrov		Narrow	
NIOC-4RNDCOXMPW	1174lm	4000K	Flood

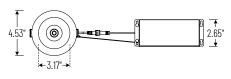
Delivered lumens will vary depending on CCT, optic and finish

PRODUCT IMAGES & DIMENSIONS

Notes



Cut out: 3-15/16"



4" Iolite Can-less Round Downlight Trim



Haze Reflector White Flange

Matte Powder White Reflector & Flange

White Reflector & Flange

Item Number

NIOC-4RNDCHW = Haze Reflector / White Flange

NIOC-4RNDCMPW = Matte Powder White Reflector & Flange

NIOC-4RNDCWW = White Reflector & Flange

2" & 4" Iolite Can-less LED Module



Color Temperature

NIOC-24LED927X = 2700K NIOC-24LED930X = 3000K NIOC-24LED935X = 3500K NIOC-24LED940X = 4000K NIOC-24LED9CDX = Comfort Dim (3100K-2000K)

Driver Box



Example: NIOC-4RNDCMPW / NIOC-24LED930X / NJCB-12 = 4" lolite Can-less Round Downlight Trim, Matte Powder White finish, 3000K LED Module, 12W Driver Box with 120VAC input; Triac or ELV dimming



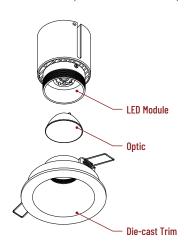
Iolite Can-less Accessories

4" Iolite Can-less Round Downlight

Type
Project
Catalog No.
Notes

FIELD CHANGEABLE OPTICS

lolite 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



Premium TIR Optics

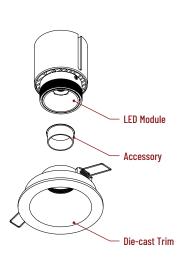
 NIO-REFLTIR15
 22° Optic

 NIO-REFLTIR25
 26° Optic

TIR optics are not compatible with hex cell louver accessory.

TRIM ACCESSORIES

lolite 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)
 %" length

 NIO-AS19(color)
 %" 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



Opaque Collar Snoot

Opaque snoot greatly reduces aperture brightness while preserving light output.



Hex Cell Louver

NIO-HC Blac

Hex cell louver subtly reduces aperture brightness by reducing light output by about 20%.

Hex cell louver is $\underline{\it not}$ compatible with TIR optics.

MOUNTING ACCESSORIES

lolite 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

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

PHOTOMETRICS

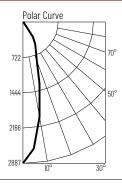
4" Iolite Can-less Round Downlight

Type
Project
Catalog No.
Notes

Test Information

Test Number: NTR2059R1 Part Number: NIOC-4RNDC40XMPW Beam Spread: 28° Spot Lumens: 1223Im

Wattage: 11.77W Efficacy: 104lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.48 Spacing Criteria (90°-270°): 0.48



Illuminance at a	a Distance
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manimance at a distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	180fc	2'-0"
6'	80.2fc	3'-0"
8'	45.1fc	4'-0"
10'	28.9fc	5'-0"
12'	20.1fc	6'-0"

Zonal Lumen Summary

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Zone	Lumens	% Luminaire
0-30	905	74.0
0-40	1117	91.3
0-60	1199	98.0
0-90	1223	100
90-180	0	0
0-180	1223	100

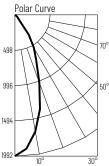
Candela Table

Candela Table		
Vertical Angles	Candela	
0	2887	
5	2596	
15	1311	
25	628	
35	358	
45	56	

Test Information

Test Number: NTR2060R1 Part Number: NIOC-4RNDC40XMPW Beam Spread: 40° Narrow Flood Lumens: 1217Im

Wattage: 11.78W Efficacy: 103lpw CCT / CRI: 4000K / 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
4'	124fc	3'-0"
6'	55.3fc	4'-5"
8'	31.1fc	5'-11"
10'	19.9fc	7'-5"
12'	13.8fc	8'-11"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	889	73.1
0-40	1105	90.8
0-60	1190	97.8
0-90	1217	100
90-180	0	0
0-180	1217	100

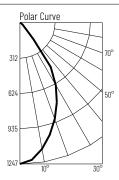
Candela Table

Candela
1992
1893
1375
712
341
54

Test Information

Test Number: NTR2061R1 Part Number: NIOC-4RNDC40XMPW Beam Spread: 61° Flood Lumens: 1174lm Wattage: 11.75W Efficacy: 1001pw

Efficacy: 100lpw 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'	77.9fc	4'-8"
6'	34.6fc	7'-1"
8'	19.5fc	9'-5"
10'	12.5fc	11'-10"
12'	8.661fc	14'-1"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	754	64.2
0-40	1034	88.0
0-60	1143	97.3
0-90	1174	100
90-180	0	0
0-180	1174	100

Candela Table

Vertical Angles	Candela
0	1247
5	1216
15	1025
25	774
35	479
45	74
	Angles 0 5 15 25 35

Lumen Output Multipliers

Color Temperature: 2700K (0.86), 3000K (0.92), 3500K (1.00), 4000K (1.00)