NIOC-IRNG

1" Iolite Can-less Round Downlight

Source: 9W LED 800lm

PRODUCT DESCRIPTION

1" 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 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 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

Lumens / Wattage: 800lm / 9W

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 750lm 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













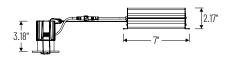
Type
Project
Catalog No.

D (D)			
Performance Data			
Part Number	Lumens	CCT	Optic
NIOC-1RNG40XMPW	824lm	4000K	Spot
NIOC-1RNG40XMPW	768lm	4000K	Narrow
NIOC-1RNG40XMPW	784lm	4000K	Flood

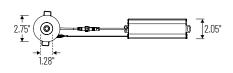
Delivered lumens will vary depending on CCT, optic and finish

PRODUCT IMAGES & DIMENSIONS

Notes



Cut out: 2-5/16'



1" Iolite Can-less Round Downlight Trim







HW Haze Reflector White Flange

Matte Powder White Reflector & Flange

W W White Reflector & Flange

Item Number

NIOC-IRNGHW = Haze Reflector / White Flange NIOC-IRNGMPW = Matte Powder White Reflector & Flange

NIOC-IRNGWW = White Reflector & Flange

1" Iolite Can-less LED Module



Color Temperature

NIOC-1LED927X = 2700K NIOC-1LED930X = 3000K NIOC-1LED935X = 3500K NIOC-1LED940X = 4000K

NIOC-1LED9CDX = Comfort Dim (2900K~1900K)

Driver Box



Wattage

NJCB-09 = 9W / 120VAC input / Triac or ELV dimming

Example: NIOC-IRNGMPW / NIOC-ILED930X / NJCB-09 = 1" lolite Can-less Round Downlight Trim, Matte Powder White finish, 3000K LED Module, 9W Driver Box with 120VAC input; Triac or ELV dimming



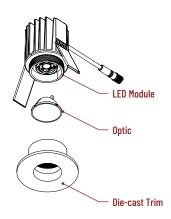
Iolite Can-less Accessories

1" Iolite Can-less Round Downlight

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Project		
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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 optics are also available.



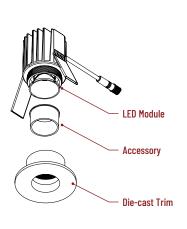


Frosted Optics

NIO-1REFL20FR	40° Optic
NIO-1REFL60FR	60° Optic

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-1AS15(color)	5⁄8" length
NIO-1AS19(color)	³¼" length
NIO-1AS24(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

NIO-1AS15(color)	5/8" length
NIO-1AS19(color)	3/4" length
NIO-1AS24(color)	1" length
Color: MPW (matte powder white), W	,

Opaque snoot greatly reduces aperture brightness while preserving light output.



Hex Cell Louver

NIO-1HC	Black
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Hex cell louver subtly reduces aperture brightness by reducing light output by about 20%.

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' Cabl
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

1" Iolite Can-less Round Downlight

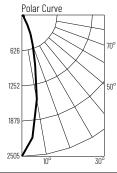
Type **Project** Catalog No.

Test Information

Test Number: NTR2034R1 Part Number: NIOC-1RNG40XMPW Beam Spread: 24° Spot Lumens: 824lm Wattage: 9.13W Efficacy: 90lpw CCT / CRI: 4000K / 90 CRI

Spacing Criteria (0°-180°): 0.42

Spacing Criteria (90°-270°): 0.42



Illuminance
Distance fr
Luminaire

Illuminance at a Distance			
Distance from Luminaire	FC at Nadir	Beam Diameter	
4'	157fc	1'-8"	
6'	69.6fc	2'-7"	
8'	39.1fc	3'-6"	
10'	25.0fc	4'-4"	
12'	17.4fc	5'-2"	

Zonal Lumen Summary

Notes

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Zone	Lumens	% Luminaire
0-30	620	75.2
0-40	689	83.6
0-60	768	93.1
0-90	824	100
90-180	0	0
0-180	824	100

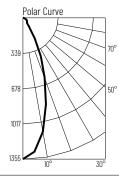
Candala Tabla

candela Table	
Vertical Angles	Candela
0	2505
5	2182
15	922
25	361
35	86
45	58

Test Information

Test Number: NTR2035R1 Part Number: NIOC-1RNG40XMPW Beam Spread: 37° Narrow Flood Lumens: 768Im

Wattage: 9.11W Efficacy: 84lpw 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'	84.7fc	2'-8"
6'	37.6fc	4'-0"
8'	21.2fc	5'-5"
10'	13.6fc	6'-8"
12'	9.41fc	8'-0"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	540	70.2
0-40	614	79.9
0-60	701	91.3
0-90	768	100
90-180	0	0
0-180	768	100

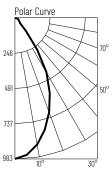
Candela Table

Vertical Angles	Candela
0	1355
5	1288
15	858
25	408
35	103
45	57

Test Information

Test Number: NTR2036R1 Part Number: NIOC-1RNG40XMPW Beam Spread: 51° Flood Lumens: 784lm Wattage: 9.10W

Efficacy: 86lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.80 Spacing Criteria (90°-270°): 0.80



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	61.4fc	3'-10"
6'	27.3fc	5'-8"
8'	15.4fc	7'-8"
10'	9.83fc	9'-7"
12'	6.83fc	11'-6"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	530	67.5
0-40	637	81.2
0-60	722	92.1
0-90	784	100
90-180	0	0
0-180	784	100

Candela Table

Vertical Angles	Candela
0	983
5	955
15	774
25	515
35	156
45	57

Lumen Output Multipliers

Color Temperature: 2700K (0.86), 3000K (0.90), 3500K (0.91), 4000K (1.00)

