

NIOC-1SNG

1" Iolite Can-less Square Downlight

Source: 9W LED

800lm

PRODUCT DESCRIPTION

1" 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

Lumens / Wattage: 800lm / 9W

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 2900K, to a romantic and comfortable 1900K on a gradual, even curve. Available in 550lm only.

Dimming: Triac or ELV

[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.

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.

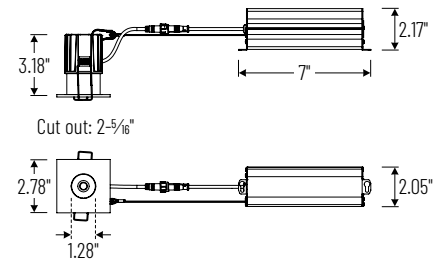
Notes

Performance Data

Part Number	Lumens	CCT	Optic
NIOC-1SNGMPW	827lm	4000K	23° Spot
NIOC-1LED940X	780lm	4000K	38° NFL
NJCB-09	779lm	4000K	53° Flood

Delivered lumens will vary depending on CCT, optic and finish

PRODUCT IMAGES & DIMENSIONS



1" Iolite Can-less Square Downlight Trim



BB
Black Reflector
Black Flange



HW
Haze Reflector
Warm White Flange



MPW
Bright White Reflector
Bright White Flange



WW
Warm White Reflector
Warm White Flange

Item Number

- NIOC-1SNGBB = Black Reflector / Black Flange
- NIOC-1SNGHW = Haze Reflector / White Flange
- NIOC-1SNGMPW = Bright White Reflector / Bright White Flange
- NIOC-1SNGWW = Warm White Reflector / Warm White Flange

1" Iolite Can-less LED Module



Three field changeable
optics included

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-1SNGMPW / NIOC-1LED930X / NJCB-09 = 1" Iolite Can-less Square Downlight Trim, Bright White Reflector / Bright White Flange, 3000K LED Module, 9W Driver Box with 120VAC input; Triac or ELV dimming

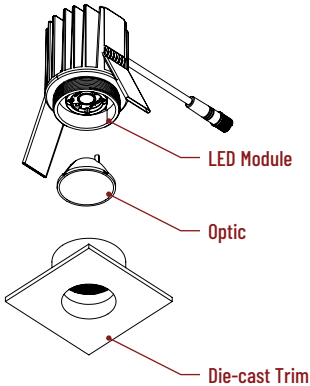
Iolite Can-less Accessories

1" Iolite Can-less Square Downlight

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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 optics are also available.



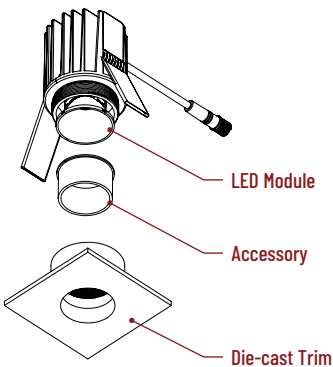
Frosted Optics

NIO-1REFL20FR
NIO-1REFL60FR

40° Optic
60° Optic

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-1AS15(color) 5/8" length
NIO-1AS19(color) 3/4" 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 a space.



Opaque Collar Snoot

NIO-1AS15(color) 5/8" length
NIO-1AS19(color) 3/4" length
NIO-1AS24(color) 1" length
Color:
BLK (black), MPW (bright white), WH (warm white)

Opaque snoot greatly reduces aperture brightness while preserving light output.



Hex Cell Louver

NIO-1HC Black
Hex cell louver subtly reduces aperture brightness by reducing light output by about 50%.

MOUNTING ACCESSORIES

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 with Collar

NFC-R231

New construction frame-in with collar can be used to assist installing can-less downlights.



Universal New Construction Frame-In

NF-R124

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

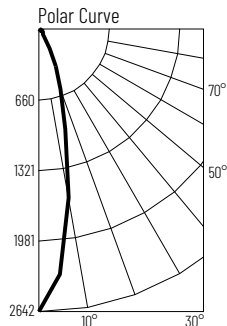
PHOTOMETRICS

1" Iolite Can-less Square Downlight

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Test Information

Test Number: NTR6631R1
 Part Number: NIOC-1SNG40XMPW
 Beam Spread: 23° Spot
 Lumens: 827lm
 Wattage: 9.23W
 Efficacy: 90lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180°): 0.4
 Spacing Criteria (90°-270°): 0.4



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	165fc	1'-7"
6'	73.4fc	2'-6"
8'	41.3fc	3'-4"
10'	26.4fc	4'-1"
12'	18.3fc	4'-11"

Zonal Lumen Summary

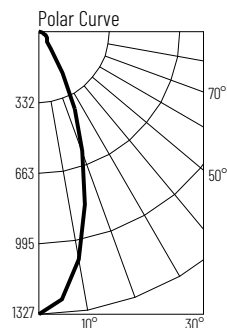
Zone	Lumens	% Luminaire
0-30	621	75.2
0-40	687	83.1
0-60	769	93
0-90	827	100
90-180	0	0
0-180	827	100

Candela Table

Vertical Angles	Candela
0	2642
5	2305
15	913
25	376
35	89
45	59

Test Information

Test Number: NTR6626R1
 Part Number: NIOC-1SNG40XMPW
 Beam Spread: 38° Narrow Flood
 Lumens: 780lm
 Wattage: 9.28W
 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'	82.9fc	2'-8"
6'	36.9fc	4'-1"
8'	20.7fc	5'-6"
10'	13.3fc	6'-11"
12'	9.2fc	8'-2"

Zonal Lumen Summary

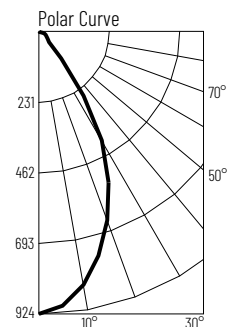
Zone	Lumens	% Luminaire
0-30	545	69.9
0-40	617	79.1
0-60	710	91
0-90	780	100
90-180	0	0
0-180	780	100

Candela Table

Vertical Angles	Candela
0	1327
5	1270
15	864
25	427
35	109
45	57

Test Information

Test Number: NTR6621R1
 Part Number: NIOC-1SNG40XMPW
 Beam Spread: 53° Flood
 Lumens: 779lm
 Wattage: 9.23W
 Efficacy: 84lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180°): 0.82
 Spacing Criteria (90°-270°): 0.82



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	57.8fc	4'
6'	25.7fc	6'
8'	14.4fc	8'
10'	9.2fc	10'
12'	6.4fc	12'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	520	66.8
0-40	630	80.9
0-60	715	91.8
0-90	779	100
90-180	0	0
0-180	779	100

Candela Table

Vertical Angles	Candela
0	924
5	905
15	746
25	511
35	165
45	57

Lumen Output Multipliers

Color Temperature: 2700K (0.89), 3000K (0.91), 3500K (0.98), 4000K (1.00), Comfort Dim (0.72)

Finish Multipliers

Black (0.79), Haze (0.92), Bright White (1.00), Warm White (1.00)