NIOC-2SNDSO

2" Iolite Can-less Square Downlight

Source: 12W LED 11751m

PRODUCT DESCRIPTION

2" 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: 1175lm / 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















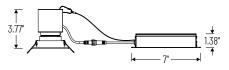
Туре	
Project	
Catalog No.	

Performance Data			
Part Number	Lumens	CCT	Optic
NIOC-2SNDSQ40XMPW	1191lm	4000K	Spot
NIOC-2SNDSQ40XMPW	1184lm	4000K	Narrow
NIOC-2SNDSQ40XMPW	1169lm	4000K	Flood

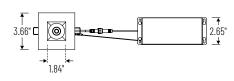
Delivered lumens will vary depending on CCT, optic and finish

PRODUCT IMAGES & DIMENSIONS

Notes



Cut out: 3-1/8'



2" Iolite Can-less Square Downlight Trim







Haze Reflector White Flange

MPW Matte Powder White Reflector & Flange

White Reflector & Flange

Item Number

NIOC-2SNDSOHW = Haze Reflector / White Flange NIOC-2SNDSOMPW = Matte Powder White Reflector & Flange

NIOC-2SNDSQWW = White Reflector & Flange

2" & 4" lolite 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



NJCB-12 = 12W / 120VAC input / Triac or ELV dimming

Example: NIOC-2SNDSQMPW / NIOC-24LED930X / NJCB-12 = 2" lolite Can-less Square Downlight Trim, Matte Powder White finish, 3000K LED Module, 12W Driver Box with 120VAC input; Triac or ELV dimming



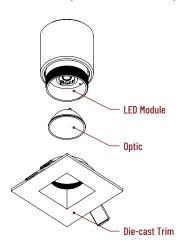
Iolite Can-less Accessories

2" Iolite Can-less Square 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



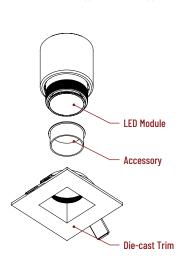
Premium TIR Optics

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) 5/8" 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



Opaque Collar Snoot

60° Optic

73° Optic

NIO-AS14(color) 5/8" length NIO-AS19(color) 3/4" length NIO-AS26(color) 1" length Color: MPW (matte powder white), WH (white)

Opaque snoot greatly reduces aperture brightness while preserving light output.



Hex Cell Louver

NIO-HC

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

Hex cell louver is <u>not</u> 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

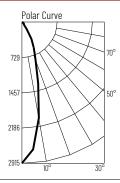
2" Iolite Can-less Square Downlight

Type
Project
Catalog No.
Notes

Test Information

Test Number: NTR2049R Part Number: NIOC-2SNDSQ40XMPW Beam Spread: 28° Spot

Lumens: 1191lm Wattage: 11.73W Efficacy: 102lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.48 Spacing Criteria (90°-270°): 0.48



Illuminance at a Distanc	е
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Distance from Luminaire	FC at Nadir	Beam Diameter
4'	182fc	2'-0"
6'	81.0fc	3'-0"
8'	45.5fc	3'-11"
10'	29.1fc	4'-11"
12'	20.2fc	5'-11"
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Zonal Lumen Summary

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Zone	Lumens	% Luminaire
0-30	886	74.3
0-40	1052	88.3
0-60	1143	96.0
0-90	1191	100
90-180	0	0
0-180	1191	100

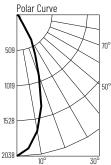
Candela Table

Landela	able
Vertical Angles	Candela
0	2915
5	2639
15	1308
25	587
35	177
45	59

Test Information

Test Number: NTR2050R1 Part Number: NIOC-2SNDSQ40XMPW Beam Spread: 38° Narrow Flood

Lumens: 1184lm Wattage: 11.74W Efficacy: 101lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.64 Spacing Criteria (90°-270°): 0.64



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	127fc	2'-10"
6'	56.6fc	4'-1"
8'	31.8fc	5'-6"
10'	20.4fc	6'-11"
12'	14.2fc	8'-4"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	864	73.0
0-40	1037	87.6
0-60	1131	95.5
0-90	1184	100
90-180	0	0
0-180	1184	100

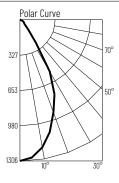
Candela Table

Vertical Angles	Candela
0	2038
5	1934
15	1367
25	634
35	157
45	60

Test Information

Test Number: NTR2051R1 Part Number: NIOC-2SNDS040XMPW Beam Spread: 55° Flood Lumens: 1169Im

Wattage: 11.76W Efficacy: 99lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.84 Spacing Criteria (90°-270°): 0.84



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	81.6fc	4'-2"
6'	36.3fc	6'-4"
8'	20.4fc	8'-5"
10'	13.1fc	10'-6"
12'	9.07fc	12'-7"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	770	65.9
0-40	999	85.5
0-60	1112	95.1
0-90	1169	100
90-180	0	0
0-180	1169	100

Candela Table

Vertical Angles	Candela
0	1306
5	1279
15	1075
25	761
35	258
45	77

Lumen Output Multipliers

Color Temperature: 2700K (0.83), 3000K (0.88), 3500K (0.90), 4000K (1.00)

