NIOC-2SNDSO

2" lolite Can-less Square Downlight Source: 12W LED 1175lm

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 1/2" 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 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: 1175Im / 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

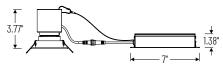
Catalog No.

Notes

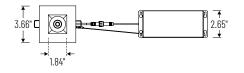
Performance Data			
Part Number	Lumens	CCT	Optic
NIOC-2SNDSQ40XMPW	11911m	4000K	Spot
NIOC-2SNDSQ40XMPW	1184lm	4000K	Narrow
NIOC-2SNDSQ40XMPW	11691m	4000K	Flood
B.II. II. III.	1 12	00T /	10.11

Delivered lumens will vary depending on CCT, optic and finish

PRODUCT IMAGES & DIMENSIONS







2" Iolite Can-less Square Downlight Trim



Haze Reflector White Flange **Reflector & Flange**

White Reflector & Flange

Item Number

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







Driver Box



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

Example: NIOC-2SNDSOMPW / 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" lolite 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.



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.



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.

4" Cable

10" Cable



Quick Connect Extension Cables

NCA-EW-4	
NCA-EW-10	

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'.



New Construction Frame-In

NF-R124

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



PHOTOMETRICS

2" lolite Can-less Square Downlight

Test Information

Test Number: NTR2049R Part Number: NIOC-2SNDSQ40XMPW Beam Spread: 28° Spot Lumens: 11911m Wattage: 11.73W Efficacy: 102lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.48 Spacing Criteria (90°-270°): 0.48

Polar Curve	
729	
1457	
2186	
2915 10° 30°	
Polar Curvo	

		Illuminance at a	Distance	
/ /	70°	Distance from Luminaire	FC at Nadir	Beam Diameter
/		4'	182fc	2'-0"
$\overline{}$	50°	6'	81.0fc	3'-0"
	50	8'	45.5fc	3'-11"
/		10'	29.1fc	4'-11"
		12'	20.2fc	5'-11"

Туре

Project

Catalog No.

Notes

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

Candela Table		
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: 1011pw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.64 Spacing Criteria (90°-270°): 0.64

	Polar Curve	
	$\land \models$	\rightarrow
509		70
1019	++	50
1528	+	
2038	10°	30°

Illuminance at a Distance			
70°	Distance from Luminaire	FC at Nadir	Beam Diameter
	4'	127fc	2'-10"
500	6'	56.6fc	4'-1"
50°	8'	31.8fc	5'-6"
	10'	20.4fc	6'-11"
	12'	14.2fc	8'-4"
			,

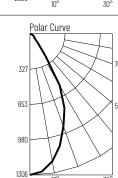
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	864	73.0
0-40	1037	87.6
0-60	1131	95.5
0-90	1184	100
90-180	0	0
0-180	1184	100

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-2SNDSQ40XMPW 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

70°	Distance from Luminaire	FC at Nadir	Beam Diameter
	4'	81.6fc	4'-2"
500	6'	36.3fc	6'-4"
50°	8'	20.4fc	8'-5"
	10'	13.1fc	10'-6"
	12'	9.07fc	12'-7"

Zonal Lumen Summary

Zunai Lumen Summary		
Lumens	% Luminaire	
770	65.9	
999	85.5	
1112	95.1	
1169	100	
0	0	
1169	100	
	Lumens 770 999 1112 1169 0	

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)

