NIOC-4SNDSO

4" Iolite Can-less Square Downlight

Source: 12W LED 1150lm

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
- 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 lenath between luminaire and driver is 40'. For longer remote driver remote run lenath, 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: 1150lm / 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
- 5-Year Limited Warranty
- **RoHS Compliant**
- Certified to the high efficacy requirements of California Title 24 JA8-2022









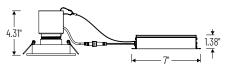


Туре		
Project		
Catalog No.		
Notes		

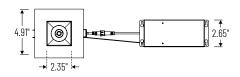
Performance Data			
Part Number	Lumens	CCT	Optic
NIOC-4SNDSOMPW	1193lm	4000K	Spot
NIOC-24LED940X	1185lm	4000K	Narrow
NJCB-12	1172lm	4000K	Flood

Delivered lumens will vary depending on CCT, optic and finish

PRODUCT IMAGES & DIMENSIONS



Cut out: 3-15/16"



4" Iolite Can-less Square Downlight Trim



HW Haze Reflector White Flange

MPW Matte Powder White Reflector & Flange

ww White Reflector & Flange

Item Number

NIOC-4SNDSQHW = Haze Reflector / White Flange

NIOC-4SNDSQMPW = Matte Powder White Reflector & Flange

NIOC-4SNDSOWW = 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



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



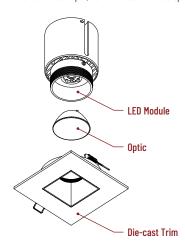
Iolite Can-less Accessories

4" 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

60° Optic 73° Optic



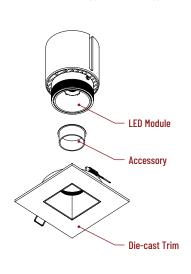
Premium TIR Optics

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



Opaque Collar Snoot

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 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.



New Construction Frame-In with Collar

NFC-R413

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



PHOTOMETRICS

4" Iolite Can-less Square Downlight

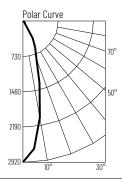
Type **Project** Catalog No. **Notes**

Test Information

Lumens: 1193lm

Test Number: NTR2064R1 Part Number: NIOC-4SNDSQ40XMPW Beam Spread: 28° Spot

Wattage: 11.751W Efficacy: 102lpw 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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Distance from Luminaire	FC at Nadir	Beam Diameter
4'	182fc	2'-0"
6'	81.1fc	3'-0"
8'	45.6fc	4'-0"
10'	29.2fc	5'-0"
12'	20.3fc	6'-0"

Zonal Lumen Summary

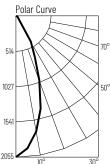
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Zone	Lumens	% Luminaire
0-30	905	75.8
0-40	1074	90.0
0-60	1158	97.1
0-90	1193	100
90-180	0	0
0-180	1193	100

Candela	able
Vertical Angles	Candela
0	2920
5	2650
15	1334
25	598
35	143
45	59

Test Information

Test Number: NTR2065R1 Part Number: NIOC-4SNDSQ40XMPW Beam Spread: 39° Narrow Flood

Lumens: 1185lm Wattage: 11.76W 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'	128fc	2'-10"
6'	57.1fc	4'-4"
8'	32.1fc	5'-8"
10'	20.5fc	7'-1"
12'	14.3fc	8'-6"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	887	74.9
0-40	1063	89.7
0-60	1148	96.8
0-90	1185	100
90-180	0	0
0-180	1185	100

Candela Table

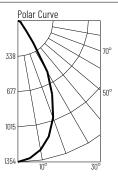
Vertical Angles	Candela
0	2055
5	1936
15	1395
25	661
35	142
45	57

Test Information

Test Number: NTR2066R1 Part Number: NIOC-4SNDSQ40XMPW Beam Spread: 54° Flood

Lumens: 1172lm Wattage: 11.78W 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'	84.6fc	4'-1"
6'	37.6fc	6'-2"
8'	21.2fc	8'-2"
10'	13.5fc	10'-4"
12'	9.4fc	12'-4"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	791	67.5
0-40	1025	87.4
0-60	1131	96.5
0-90	1172	100
90-180	0	0
0-180	1172	100

Candela Table

Vertical Angles	Candela
0	1354
5	1317
15	1102
25	778
35	258
45	76

Lumen Output Multipliers

Color Temperature: 2700K (0.85), 3000K (0.90), 3500K (0.90), 4000K (1.00)

