

NIOC-2SNSDSQ

2" Iolite Can-less Square Downlight

Source: 12W LED
1100lm

PRODUCT DESCRIPTION

2" 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 or 120-277VAC (must specify)

Lumens / Wattage: 1100lm / 12W

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 3100K, to a romantic and comfortable 2000K on a gradual, even curve. Available in 900lm only.

Dimming: Phase or 0-10V (must specify)

[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.

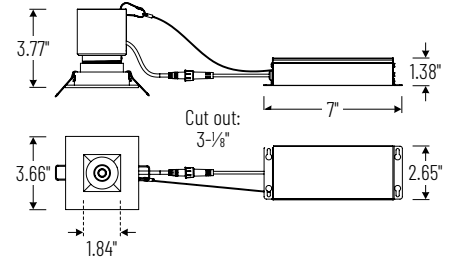
Notes

Performance Data

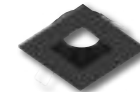
Part Number	Lumens	CCT	Optic
NIOC-2SNSDSQMPW NIOC-24LED940X NJCB-12	1125lm	4000K	27° Spot
	1131lm	4000K	38° NFL
	1127lm	4000K	60° Flood

Delivered lumens will vary depending on CCT, optic and finish

PRODUCT IMAGES & DIMENSIONS



2" 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-2SNSDSQBB** = Black Reflector / Black Flange
- **NIOC-2SNSDSQHW** = Haze Reflector / Warm White Flange
- **NIOC-2SNSDSQMPW** = Bright White Reflector / Bright White Flange
- **NIOC-2SNSDSQWW** = Warm White Reflector / Warm White Flange

2" & 4" Iolite Can-less LED Module



Three field changeable
optics included

Color Temperature

- **NIOC-24LED927X** = 2700K
- **NIOC-24LED930X** = 3000K
- **NIOC-24LED935X** = 3500K
- **NIOC-24LED940X** = 4000K
- **NIOC-24LED9CDX** = Comfort Dim (3100K-2000K)

Driver Box



Wattage

- **NJCB-12** = 12W / 120VAC input / Phase dimming
- **NJCB-12LE4** = 12W / 120-277VAC input / Phase or 0-10V dimming

Example: **NIOC-2SNSDSQMPW / NIOC-24LED930X / NJCB-12** = 2" Iolite Can-less Square Downlight Trim, Bright White Reflector / Bright White Flange, 3000K LED Module, 12W Driver Box with 120VAC input; Phase dimming

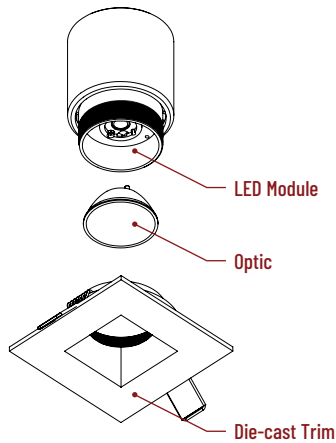
Iolite Can-less Accessories

2" Iolite Can-less Square Downlight

Type	
Project	
Catalog No.	
Notes	

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 and TIR optics are also available.



Frosted Optics

NIO-REFL38FR
NIO-REFL60FR

60° Optic
73° Optic

Optic assembly includes optional frosted lens



Premium TIR Optics

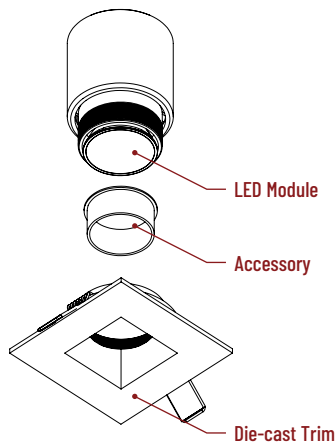
NIO-REFLTIR15
NIO-REFLTIR25

22° Optic
26° Optic

TIR optics are not compatible with Comfort Dim LED modules or hex cell louver accessory.

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-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-AS14WH 5/8" length (warm white)
NIO-AS19MPW 3/4" length (bright white)
NIO-AS19WH 3/4" length (warm white)
NIO-AS26WH 1" length (warm white)

Opaque snoot greatly reduces aperture brightness while preserving light output.



Hex Cell Louver

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

Hex cell louver is not compatible with TIR optics.

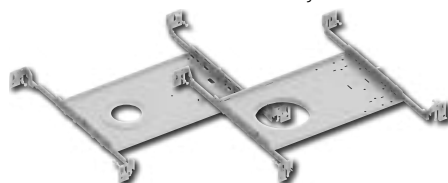
MOUNTING ACCESSORIES & REMOTE EMERGENCY

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.



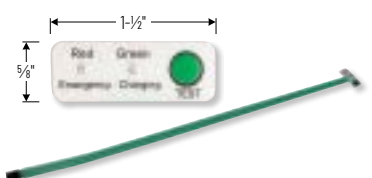
New Construction Frame-In

NF-R124 without Collar
NFC-R413 with Collar
Universal new construction frame-in can be used to assist installing can-less recessed downlighting.



23W Emergency LED Driver with Remote Test Switch

NEPK-23LEDUNV 23W Emergency
120-277V Emergency LED driver operates luminaire for 90 minute emergency operation with a fully charged battery. Requires 24 hours to charge the battery



Ribbon Test Switch for NEPK-23LEDUNV

NEPKA-20/23LEDRTS
Ribbon test switch replaces remote test switch included with emergency driver. Double sided tape is pre-installed.

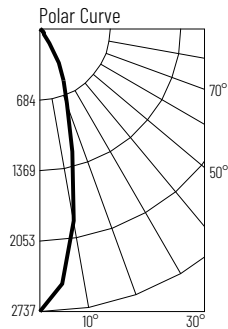
PHOTOMETRICS

2" Iolite Can-less Square Downlight

Type	
Project	
Catalog No.	
Notes	

Test Information

Test Number: NTR2049R2
 Part Number: NIOC-2SNDSQ40XMPW
 Beam Spread: 27° Spot
 Lumens: 1125lm
 Wattage: 11.66W
 Efficacy: 96lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180°): 0.46
 Spacing Criteria (90°-270°): 0.46



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	171fc	1'-11"
6'	76fc	2'-10"
8'	42.8fc	3'-10"
10'	27.4fc	4'-8"
12'	19fc	5'-8"

Zonal Lumen Summary

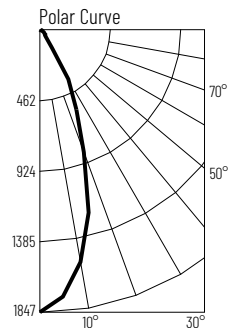
Zone	Lumens	% Luminaire
0-30	791	70.3
0-40	985	87.5
0-60	1074	95.5
0-90	1125	100
90-180	0	0
0-180	1125	100

Candela Table

Vertical Angles	Candela
0	2737
5	2508
15	1137
25	539
35	327
45	60

Test Information

Test Number: NTR2050R2
 Part Number: NIOC-2SNDSQ40XMPW
 Beam Spread: 38° Narrow Flood
 Lumens: 1131lm
 Wattage: 11.66W
 Efficacy: 97lpw
 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'	115fc	2'-8"
6'	51.3fc	4'-1"
8'	28.9fc	5'-6"
10'	18.5fc	6'-10"
12'	12.8fc	8'-2"

Zonal Lumen Summary

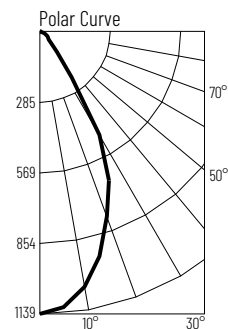
Zone	Lumens	% Luminaire
0-30	772	68.2
0-40	961	85
0-60	1074	94.9
0-90	1131	100
90-180	0	0
0-180	1131	100

Candela Table

Vertical Angles	Candela
0	1847
5	1806
15	1251
25	560
35	341
45	63

Test Information

Test Number: NTR2051R2
 Part Number: NIOC-2SNDSQ40XMPW
 Beam Spread: 60° Flood
 Lumens: 1127lm
 Wattage: 11.66W
 Efficacy: 97lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180°): 0.86
 Spacing Criteria (90°-270°): 0.86



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	71.2fc	4'-7"
6'	31.6fc	6'-11"
8'	17.8fc	9'-2"
10'	11.4fc	11'-6"
12'	7.9fc	13'-10"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	683	60.6
0-40	942	83.6
0-60	1064	94.4
0-90	1127	100
90-180	0	0
0-180	1127	100

Candela Table

Vertical Angles	Candela
0	1139
5	1116
15	948
25	685
35	430
45	90

Lumen Output Multipliers

Color Temperature: 2700K (0.88), 3000K (0.92), 3500K (0.96), 4000K (1.00), Comfort Dim (0.81)

Finish Multipliers

Finish: Haze (0.92), Bright White (1.00)