

NIOC-4SNSDQ

4" Iolite Can-less Square Downlight

Source: 12W LED

1100lm or 1500lm

PRODUCT DESCRIPTION

4" 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 or 1500lm / 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 (Triac/ELV) 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 louwer and (1) translucent deco collar or opaque snoot, no accessory holder is required, see accessories page.

Emergency: Luminaire is compatible with NEPK-23LEDUNV (ordered separately). Remote mounted battery operates luminaire for 90 minute emergency operation with a fully charged battery. Emergency includes remote test switch, ribbon test switch accessory (NEPKA-20/23LEDRTS) ordered separately.

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

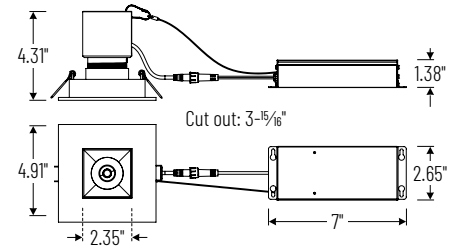
Catalog No.

Notes

Performance Data

Part Numbers	Lumens	Optic	CCT
NIOC-4SNSDQMPW NIOC-24LED940X NJCB-12	1123lm	26° Spot	4000K
	1129lm	36° NFL	
	1125lm	58° Flood	
NIOC-4SNSDQMPW NIOC-24LEDHL940X NJCB-12	1496lm	26° Spot	4000K
	1504lm	36° NFL	
	1499lm	58° Flood	

Delivered lumens will vary depending on CCT, optic and finish



4" Iolite Can-less Round Downlight Trim



Item Number

- **NIOC-4SNSDQBB** = Black Reflector / Black Flange
- **NIOC-4SNSDQBZ** = Bronze Reflector / Bronze Flange
- **NIOC-4SNSDQHW** = Haze Reflector / Warm White Flange
- **NIOC-4SNSDQMPW** = Bright White Reflector / Bright White Flange
- **NIOC-4SNSDQWW** = Warm White Reflector / Warm White Flange

2" & 4" Iolite Can-less LED Module

Lumens	Color Temperature
■ NIOC-24LED = 1150lm	■ 927X = 2700K
■ NIOC-24LEDHL = 1500lm	■ 930X = 3000K
	■ 935X = 3500K
	■ 940X = 4000K
■ NIOC-24LED = 900lm	■ 9CDX = Comfort Dim (3100K-2000K)

Driver Box

Wattage	
■ NJCB-12 = 12W / 120VAC input / Phase (Triac/ELV) dimming	
■ NJCB-12LE4 = 12W / 120-277VAC input / Triac/ELV or 0-10V dimming	

Example: **NIOC-4SNSDQMPW / NIOC-24LED930X / NJCB-12** = 4" Iolite Can-less Square Downlight Trim, Bright White Reflector / Bright White Flange, 3000K LED Module, 12W Driver Box with 120VAC input; Triac or ELV dimming

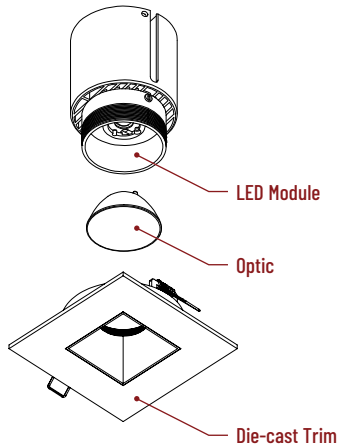
Iolite Can-less Accessories

4" Iolite Can-less Square Downlight

Type	
Project	
Catalog No.	
Notes	

FIELD CHANGEABLE OPTICS

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

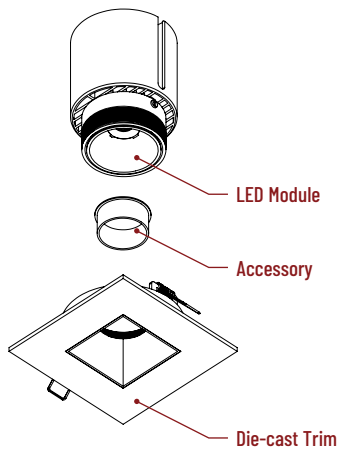
NIO-REFLTIR15
NIO-REFLTIR25

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)
NIO-AS19(color)
NIO-AS26(color)

5/8" length
3/4" length
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 finish
NIO-AS19MPW 3/4" length / bright white finish
NIO-AS19WH 3/4" length / warm white finish

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 20%.

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.

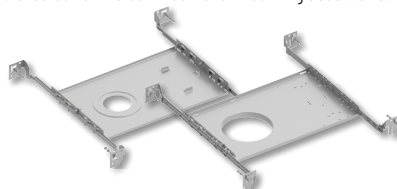


Quick Connect Extension Cables

NCA-EW-4
NCA-EW-10

4' Cable
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

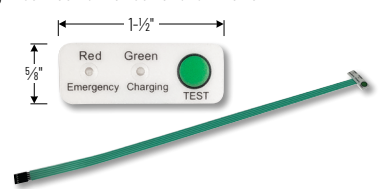
NF-R124
NFC-R413

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



23W Emergency Driver w/Remote Switch

NEPK-23LEDUNV Driver only
NEPK-23LEDUNV-JB Driver w/ J-Box
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

4" Iolite Can-less Square Downlight

1100 lumens

Type

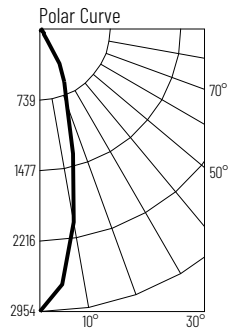
Project

Catalog No.

Notes

Test Information

Test Number: NTR6140R2
Part Number: NIOC-4SNDSQ40XMPW
Beam Spread: 26° Spot
Lumens: 1123lm
Wattage: 11.68W
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'	185fc	1'-11"
6'	82.1fc	2'-10"
8'	46.2fc	3'-8"
10'	29.5fc	4'-8"
12'	20.5fc	5'-7"

Zonal Lumen Summary

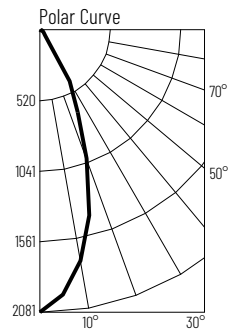
Zone	Lumens	% Luminaire
0-30	843	75
0-40	1013	90.2
0-60	1091	97.2
0-90	1123	100
90-180	0	0
0-180	1123	100

Candela Table

Vertical Angles	Candela
0	2954
5	2681
15	1200
25	576
35	280
45	59

Test Information

Test Number: NTR6136R2
Part Number: NIOC-4SNDSQ40XMPW
Beam Spread: 36° Narrow Flood
Lumens: 1129lm
Wattage: 11.68W
Efficacy: 97lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.6
Spacing Criteria (90°-270°): 0.6



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	130fc	2'-7"
6'	57.8fc	3'-11"
8'	32.5fc	5'-4"
10'	20.8fc	6'-7"
12'	14.5fc	7'-11"

Zonal Lumen Summary

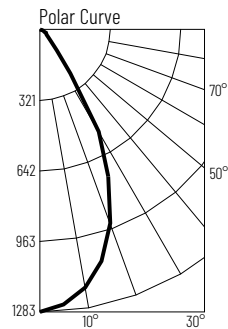
Zone	Lumens	% Luminaire
0-30	843	74.6
0-40	1008	89.2
0-60	1095	97
0-90	1129	100
90-180	0	0
0-180	1129	100

Candela Table

Vertical Angles	Candela
0	2081
5	2030
15	1349
25	610
35	283
45	60

Test Information

Test Number: NTR6132R1
Part Number: NIOC-4SNDSQ40XMPW
Beam Spread: 58° Flood
Lumens: 1125lm
Wattage: 11.68W
Efficacy: 96lpw
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'	80.2fc	4'-5"
6'	35.6fc	6'-8"
8'	20.1fc	8'-11"
10'	12.8fc	11'-1"
12'	8.9fc	13'-4"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	759	67.4
0-40	990	88
0-60	1086	96.5
0-90	1125	100
90-180	0	0
0-180	1125	100

Candela Table

Vertical Angles	Candela
0	1283
5	1255
15	1055
25	756
35	384
45	71

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), Warm White (1.00)

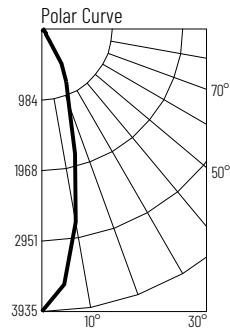
PHOTOMETRICS

4" Iolite Can-less Square Downlight 1500 lumens

Type	
Project	
Catalog No.	
Notes	

Test Information

Test Number: NTR7038R1
Part Number: NIOC-4SNDSQ4025MPW_15
Beam Spread: 26° Spot
Lumens: 1496lm
Wattage: 11.56W
Efficacy: 129lpw
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
8'	61.5fc	3'-9"
10'	39.3fc	4'-8"
12'	27.3fc	5'-7"
14'	20.1fc	6'-6"
16'	15.4fc	7'-5"

Zonal Lumen Summary

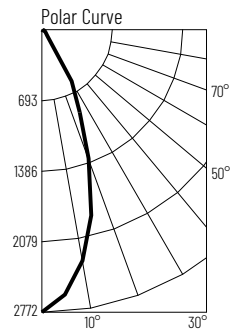
Zone	Lumens	% Luminaire
0-30	1123	75.0
0-40	1349	90.2
0-60	1453	97.2
0-90	1496	100
90-180	0	0
0-180	1496	100

Candela Table

Vertical Angles	Candela
0	3935
5	3571
15	1599
25	767
35	373
45	79

Test Information

Test Number: NTR7037R1
Part Number: NIOC-4SNDSQ4038MPW_15
Beam Spread: 36° Narrow Flood
Lumens: 1504lm
Wattage: 11.56W
Efficacy: 130lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.6
Spacing Criteria (90°-270°): 0.6



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	43.3fc	5'-3"
10'	27.7fc	6'-7"
12'	19.3fc	7'-10"
14'	14.1fc	9'-2"
16'	10.8fc	10'-6"

Zonal Lumen Summary

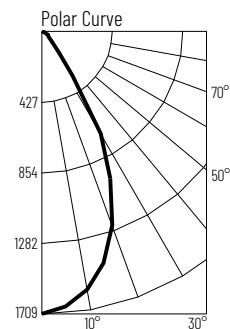
Zone	Lumens	% Luminaire
0-30	1123	74.6
0-40	1355	90.1
0-60	1459	97.0
0-90	1504	100
90-180	0	0
0-180	1504	100

Candela Table

Vertical Angles	Candela
0	2772
5	2704
15	1797
25	813
35	377
45	80

Test Information

Test Number: NTR7036R1
Part Number: NIOC-4SNDSQ4060MPW_15
Beam Spread: 58° Flood
Lumens: 1499lm
Wattage: 11.56W
Efficacy: 130lpw
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
8'	26.7fc	8'-11"
10'	17.1fc	11'-1"
12'	11.9fc	13'-4"
14'	8.7fc	15'-7"
16'	6.7fc	17'-9"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1010	67.4
0-40	1318	88.0
0-60	1446	96.5
0-90	1499	100
90-180	0	0
0-180	1499	100

Candela Table

Vertical Angles	Candela
0	1709
5	1672
15	1405
25	1006
35	511
45	94

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), Warm White (1.00)