# NIOC-1SNG

# 1" Iolite Can-less Square Downlight Source: 9W LED 800lm

# PRODUCT DESCRIPTION

1" 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 <sup>3</sup>/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: 800lm / 9W 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 2900K, to a romantic and comfortable 1900K on a gradual, even curve. Available in 750lm 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

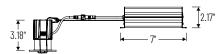
Catalog No.

# Notes

Performance Data			
Part Number	Lumens	CCT	Optic
NIOC-1SNG40XMPW	824lm	4000K	Spot
NIOC-1SNG40XMPW	768lm	4000K	Narrow
NIOC-1SNG40XMPW	784lm	4000K	Flood
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Delivered lumens will vary depending on CCT, optic and finish

## **PRODUCT IMAGES & DIMENSIONS**







# 1" Iolite Can-less Square Downlight Trim



MPW

HW Matte Powder White Haze Reflector White Flange **Reflector & Flange** 

ww White Reflector & Flange

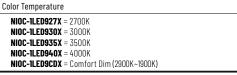
Item Number

NIOC-1SNGHW = Haze Reflector / White Flange

NICC-ISNGMPW = Matte Powder White Reflector & Flange NICC-ISNGMPW = White Reflector & Flange

# 1" Iolite Can-less LED Module





**Driver Box** 



NJCB-09 = 9W / 120VAC input / Triac or ELV dimming

Example: NIOC-ISNGMPW / NIOC-ILED930X / NJCB-09 = 1" Iolite Can-less Square Downlight Trim, Matte Powder White finish, 3000K LED Module, 9W Driver Box with 120VAC input; Triac or ELV dimming

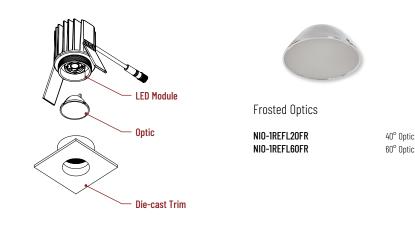
# **Iolite Can-less Accessories**

1" 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 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**

# 1" Iolite Can-less Square Downlight

# Test Information

Test Number: NTR2034R1 Part Number: NIOC-ISNG40XMPW Beam Spread: 24° Spot Lumens: 824Im Wattage: 9.13W Efficacy: 90Ipw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.42 Spacing Criteria (90°-270°): 0.42

Polar Curve	
626 1262 1879 2505 10° 30°	
Polar Curve	

Illuminance at a Distance			
70°	Distance from Luminaire	FC at Nadir	Beam Diameter
	4	157fc	1'-8"
500	6'	69.6fc	2'-7"
50°	8'	39.1fc	3'-6"
	10'	25.0fc	4'-4"
	12'	17.4fc	5'-2"

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Project

# Catalog No.

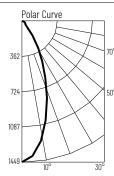
# Notes

Zonal Lumen Summary				
Zone	Lumens	% Luminaire		
0-30	620	75.2		
0-40	689	83.4		
0-60	768	93.1		
0-90	824	100		
90-180	0	0		
0-180	824	100		

Candela Table		
Vertical Angles	Candela	
0	2505	
5	2182	
15	922	
25	361	
35	86	
45	58	

# Test Information

Test Number: NTR2035R1 Part Number: NIOC-ISNG40XMPW Beam Spread: 37° Narrow Flood Lumens: 768Im Wattage: 9.11W Efficacy: 84Ipw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.62 Spacing Criteria (90°-270°): 0.62



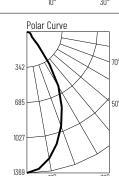
Illuminance at a Distance			
70°	Distance from Luminaire	FC at Nadir	Beam Diameter
	4'	84.7fc	2'-8"
509	6'	37.6fc	4'-0"
50°	8'	21.2fc	5'-5"
	10'	13.6fc	6'-8"
1	12'	9.41fc	8'-0"

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	540	70.2
0-40	614	79.9
0-60	701	91.3
0-90	768	100
90-180	0	0
0-180	768	100

Candela Table		
Vertical Angles	Candela	
0	1355	
5	1288	
15	858	
25	408	
35	103	
45	57	

## Test Information

Test Number: NTR2036R1 Part Number: NIOC-ISNG40XMPW Beam Spread: 51° Flood Lumens: 784lm Wattage: 9.10W Efficacy: 86lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.80 Spacing Criteria (90°-270°): 0.80



# Illuminance at a Distance

70°	Distance from Luminaire	FC at Nadir	Beam Diameter
	4	61.4fc	3'-10"
500	6'	27.3fc	5'-8"
50°	8'	15.4fc	7'-8"
	10'	9.83fc	9'-6"
	12'	6.83fc	11'-6"

## Zonal Lumen Summary

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Zone	Lumens	% Luminaire
0-30	530	67.5
0-40	637	81.2
0-60	722	92.1
0-90	784	100
90-180	0	0
0-180	784	100

#### Candela Table

Vertical Angles	Candela
0	983
5	955
15	878
25	515
35	156
45	57

## Lumen Output Multipliers

Color Temperature: 2700K (0.86), 3000K (0.90), 3500K (0.91), 4000K (1.00)

