NIOC-2RPH

2" Iolite Can-less Round Pinhole Source: 12W LED 800Im

PRODUCT DESCRIPTION

2" lolite can-less downlights can be installed in new construction or remodel applications. Fixed pinhole trims focuses the beam spread through a small opening.

FEATURES

- No housing required IC Air-Tight rated
- \cdot $\,$ Easy installation for remodel or new construction applications
- \cdot $\;$ 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 ½" 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/*. 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: 800Im / 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 625Im <u>only</u>. 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



Туре

Project

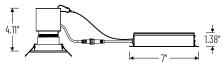
Catalog No.

Notes

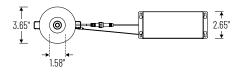
Performance Data		
Lumens	CCT	Optic
829lm	4000K	Spot
828lm	4000K	Narrow
804lm	4000K	Flood
	829lm 828lm	829Im 4000K 828Im 4000K

Delivered lumens will vary depending on CCT, optic and finish

PRODUCT IMAGES & DIMENSIONS







2" Iolite Can-less Round Pinhole Trim





HZMPW Haze Pinhole / Matte Powder White Flange

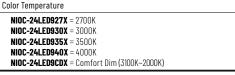
MPW Matte Powder White Pinhole & Flange

ltem Number

NIOC-2RPHHZMPW = Haze Pinhole & Matte Powder White Flange NIOC-2RPHMPW = Matte Powder White Pinhole & Flange







Driver Box



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

Example: NIOC-2RPHMPW / NIOC-24LED930X / NJCB-12 = 2" lolite Can-less Pinhole Trim, Matte Powder White finish, 3000K LED Module, 12W Driver Box with 120VAC input; Triac or ELV dimming

Iolite Can-less Accessories

2" Iolite Can-less Round Pinhole

Type Project Catalog No. Notes

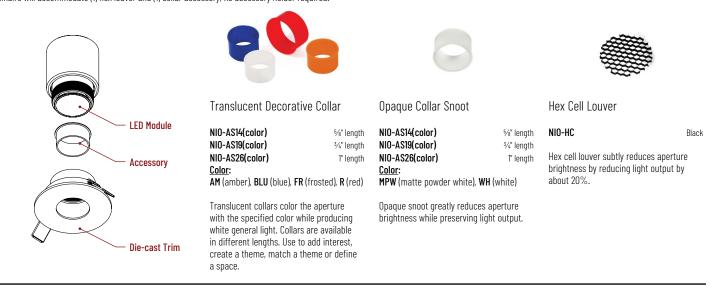
FIELD CHANGEABLE OPTICS

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.



4" Cable

10" Cable

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	
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" Iolite Can-less Round Pinhole

Test Information

Test Number: NTR2087R1 Part Number: NIOC-2RPH40XMPW Beam Spread: 24° Spot Lumens: 829Im Wattage: 11.74W Efficacy: 711pw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.40 Spacing Criteria (90°-270°): 0.40

Polar Curve	Illun
5/9 70°	Dis L
648	
1295 50°	
1943	
2591 10° 30°	
Polar Curvo	

٦	Illuminance at a	Distance	
	Distance from Luminaire	FC at Nadir	Beam Diameter
	4'	162fc	1'-8"
X 500	6'	72.0fc	2'-6"
× 50°	8'	40.5fc	3'-5"
	10'	25.9fc	4'-2"
	12'	18.0fc	5'-1"

Catalog No.				
Notes				
	Zonal Lumei	n Summary		
	Zone	Lumens		

593

650

756

829

0

829

0-30

0-40

0-60

0-90

90-180

0-180

Туре Project

	Candela Table		
% Luminaire		Vertical Angles	Candela
71.6		0	2591
78.5		5	2227
91.2		15	924
100		25	275
0		35	86
100		45	70

Test Information

Test Number: NTR2088R1 Part Number: NIOC-2RPH40XMPW Beam Spread: 34° Narrow Flood Lumens: 828lm Wattage: 11.73W Efficacy: 711pw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.56 Spacing Criteria (90°-270°): 0.56

	Polar Curve	
		\rightarrow
453	- h	70
906	++	50
		$\langle \rangle$
1359	$T \setminus$	
1812		
-	10°	30°

Illuminance at a Distance			
70°	Distance from Luminaire	FC at Nadir	Beam Diameter
	4'	113fc	2'-5"
50°	6'	50.3fc	3'-7"
	8'	28.3fc	4'-11"
	10'	18.1fc	6'-1"
	12'	12.6fc	7'-4"

Zonal Lumen Summary			
Zone	Lumens	% Luminaire	
0-30	563	68.0	
0-40	626	75.6	
0-60	748	90.3	
0-90	828	100	
90-180	0	0	
0-180	828	100	

Candela Table		
Vertical Angles	Candela	
0	1812	
5	1652	
15	1018	
25	350	
35	89	
45	71	

Test Information

Test Number: NTR2089R1 Part Number: NIOC-2RPH40XMPW Beam Spread: 44° Flood Lumens: 804lm Wattage: 11.74W Efficacy: 68lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.72 Spacing Criteria (90°-270°): 0.72

1812	10°	30°
	Polar Curve	
	\mathbf{h}	
281		\sum
563	+	5
844	A	\bigcup
1125	10°	30°

Illuminance at a Distance

1	mummance at a	Distance	
70°	Distance from Luminaire	FC at Nadir	Beam Diameter
	4	70.3fc	3'-2"
50°	6'	31.3fc	4'-10"
	8'	17.6fc	6'-5"
	10'	11.3fc	8'-1"
	12'	7.82fc	9'-8"

Zonal Lumen Summary

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Zone	Lumens	% Luminaire		
0-30	516	64.2		
0-40	610	75.8		
0-60	727	90.5		
0-90	804	100		
90-180	0	0		
0-180	804	100		

Candela Table

Vertical Angles	Candela		
0	1125		
5	1070		
15	826		
25	395		
35	143		
45	78		

Lumen Output Multipliers

Color Temperature: 2700K (0.86), 3000K (0.92), 3500K (0.94), 4000K (1.0)

