

NIO-1 Series

1" LED Iolite Round & Square trims

Requires NHIOICD-1 New Construction Housing

Source: LED, 10-11 Watts, 600 Lumens

PRODUCT DESCRIPTION

NSpec Lighting's Iolite Series feature 1" square and round trims. The die cast aluminum trims feature sharp clean edges. The Iolite is a powerful 1" aperture downlight. The patent pending new construction housing allows for easy, tool-less removal of driver. The Iolite ships with a 60° beam spread reflector installed. A 20° and 40° reflector is also included and can be easily changed in the field. The system provides 600 lumen output, 9 Watts and 96CRI. An obvious choice for Green Energy Efficient lighting in commercial and residential applications.

FEATURES

- 9 Watts
- Cree LED COB package
- 600 Lumens
- 96 CRI
- 2700K, 3000K, 3500K, 4000K and 5000K color temp.
- Ideal Connector
- 6" Cable with insulating sleeve
- 60° (Flood) reflector installed, 40° (Narrow flood) and 20° (Spot) reflector included.
- 5-Year limited warranty
- cULus listed for Wet Location
- Dimmable

SPECIFICATION

TRIM

Trims are constructed of heat dissipating die-cast aluminum. The aluminum die-cast LED heat sink is threaded to fit the die-cast lamp holder. The precision threads and positive fit transfers heat to the trim. Scientifically and specifiable "Unitized Thermal Management" (UTM) provides exceptional cool operation exceeding all industry standards. The 1" Iolite offers 2 trim styles in round or square. A sharp edge reflector and bull-nosed soft edge reflector that blends into ceiling lines.

MOUNTING

Trim includes Friction Blades to mount trim securely to housing.

DIMMING

Triac Dimming

LE3 - 120V Triac / ELV Dimming

LE4 - 120V Triac or 0-10V / 277V 0-10 Dimming

[Click Here](#) or refer to www.NoraLighting.com for complete updated dimmer list in the "Compatibility" page under the "Resource" tab.

ELECTRICAL

Voltage:	120VAC
Power Consumption:	9 Watts
Light Source:	Cree Integrated Platform
Lumens:	600 lm
CRI:	96 CRI
Operating Temperature:	0°C to 75°C ambient temperature
Life Expectancy:	50,000 hours

COMPATIBLE HOUSINGS (12" x 7-5/8" x 4")

Catalog No.	Description
NHIOICD-16LE3:	1" Iolite IC Air-Tight LED Dedicated Housing, 120V Triac Dimming
NHIOICD-16LE4:	1" Iolite IC Air-Tight LED Dedicated Housing-120V Triac or 0-10V / 277V 0-10V Dimming

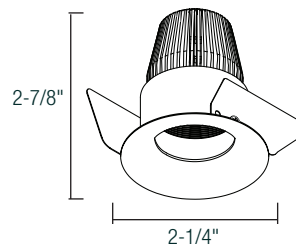
IOLITE SERIES - 1" LED ROUND & SQUARE TRIMS

Catalog No.	Trim Type	Trim Style	Color Temp.	Beam Spread	Finishes
NIO-1	R = Round	NG = Straight	27 = 2700K	X = 20°/40°/60°	WW = White, White
			30 = 3000K		MPW = Mat Powder White
	S = Square	NB = Bullnose	35 = 3500K		NN = Nat. Metal, Nat. Metal
			40 = 4000K		BZ = Bronze, Bronze
			50 = 5000K		Finishes (Only NG Style)
					HW = Haze White
					BW = Black, White

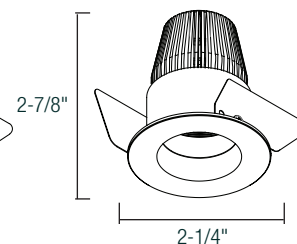
DIMENSIONS:

ROUND TYPE

NIO-1RNB

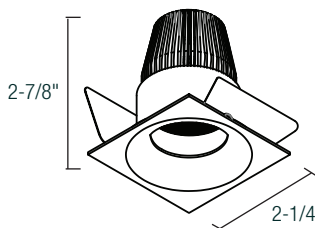


NIO-1RNG

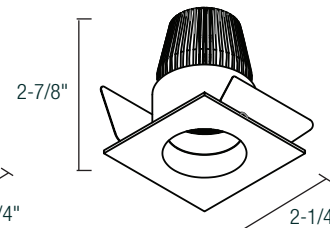


SQUARE TYPE

NIO-1SNB



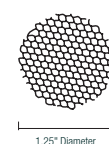
NIO-1SNG



ACCESSORIES

- NIO-1HC:** HEX CELL LOUVER FOR 1" IOLITE
- NIO-1REFL20FR:** 20° Reflector w/ Frosted Lens for 1" Iolite
- NIO-1REFL40FR:** 40° Reflector w/ Frosted Lens for 1" Iolite
- NIO-1REFL60FR:** 60° Reflector w/ Frosted Lens for 1" Iolite
- NIO-1AS15BLK:** IOLITE 1" SNOOT 15MM-5/8" BLACK
- NIO-1AS15WH:** IOLITE 1" SNOOT 15MM-5/8" WHITE
- NIO-1AS15FR:** IOLITE 1" SNOOT 15MM-5/8" FROST
- NIO-1AS19BLK:** IOLITE 1" SNOOT 19MM-3/4" BLACK
- NIO-1AS19WH:** IOLITE 1" SNOOT 19MM-3/4" WHITE
- NIO-1AS19FR:** IOLITE 1" SNOOT 19MM-3/4" FROST
- NIO-1AS24BLK:** IOLITE 1" SNOOT 24MM-1" BLACK
- NIO-1AS24WH:** IOLITE 1" SNOOT 24MM-1" WHITE
- NIO-1AS24FR:** IOLITE 1" SNOOT 24MM-1" FROST

NIO-1HC for 1"



COMPATIBLE PATENT PENDING HOUSINGS

NIO series is compatible with IC Air-Tight LED Iolite Series Dedicated housings listed below. The housing is cULus listed for direct contact with insulation and meets ASTM E283 standards for Air Tight. Bar hangers are adjustable from 13 5/8" to 24 1/2". Bar hangers are slotted for T-Bar installation and includes alignment feet.

LABELS AND LISTINGS

Title 24 Compliant
cULus for Wet Location
Energy Star Rated
5 Year Limited Warranty
ROHS



Example: NIO-2RNG27XWW = Iolite 1" Round Round Surface Straight Reflector 27K w/ 20°/40°/60° Reflectors, White Finish (Requires NHIOICD-16XXX Housing)

PHOTOMETRICS 1" IOLITE

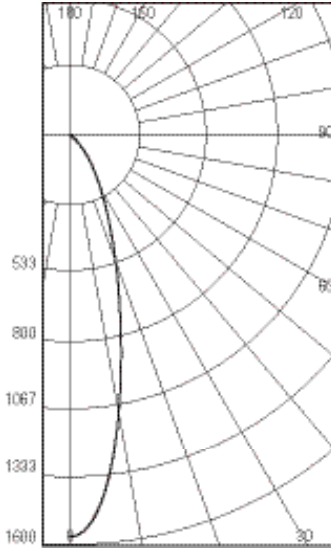
1" IOLITE LED 3000K, 20°

Item Number: NIO-1RNG3020WWLE3

Lamp Output: 605.1 Lumens

Max Candela: 1573.3

INTENSITY (CP) SUMMARY



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	462.6	76.4
0-40	532.7	88.0
0-60	581.5	96.1
0-90	605.1	100.0

ILLUMINANCE AT A DISTANCE

FOOTCANDLES CENTER BEAM	HEIGHT (IN FEET)	BEAM DIAMETER
393 fc	2'	1.0'
98.3 fc	4'	2.0'
43.7 fc	6'	3.0'
24.6 fc	8'	4.0'
15.7 fc	10'	5.0'
10.9 fc	12'	6.0'

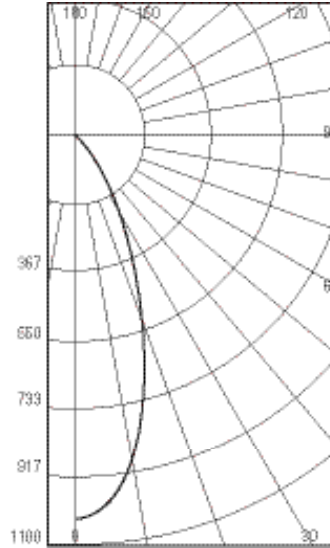
1" IOLITE LED 3000K, 40°

Item Number: NIO-1RNG3040WWLE3

Lamp Output: 610 Lumens

Max Candela: 1029.0

INTENSITY (CP) SUMMARY



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	440.3	72.2
0-40	515.7	84.5
0-60	571.9	93.7
0-90	610	100.0

ILLUMINANCE AT A DISTANCE

FOOTCANDLES CENTER BEAM	HEIGHT (IN FEET)	BEAM DIAMETER
257 fc	2'	1.5'
64.3 fc	4'	2.9'
28.6 fc	6'	4.4'
16.1 fc	8'	5.9'
10.3 fc	10'	7.4'
7.15 fc	12'	8.8'

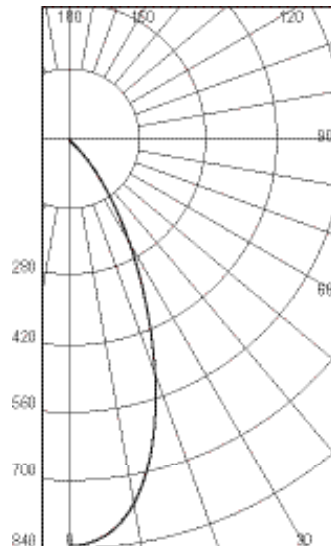
1" IOLITE LED 3000K, 60°

Item Number: NIO-1RNG3060WWLE3

Lamp Output: 610 Lumens

Max Candela: 832.1

INTENSITY (CP) SUMMARY



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	431.2	70.7
0-40	526.4	86.3
0-60	579.7	95.0
0-90	609.9	100.0

ILLUMINANCE AT A DISTANCE

FOOTCANDLES CENTER BEAM	HEIGHT (IN FEET)	BEAM DIAMETER
208 fc	2'	1.8'
52.0 fc	4'	3.5'
23.1 fc	6'	5.3'
13.0 fc	8'	7.1'
8.32 fc	10'	8.9'
5.78 fc	12'	10.6'