

NIO-4SNDC

4" Iolite Square Reflector with Round Aperture with 10° Optic

Source: 12W

850lm

PRODUCT DESCRIPTION

4" Iolite luminaires can be specified for use with Iolite new construction or remodel housings. Deep regressed cone reflectors optimize visual cut-off.

FEATURES

- Delivering up to 8392 center beam candlepower (CBCP)
- 2700K, 3000K, 3500K, 4000K @ 90+ CRI
- 10° TIR optic delivers luminous intensity of higher lumen downlights
- 5-Year limited warranty

SPECIFICATION

Construction: Trims are constructed of heat dissipating, die-cast aluminum. The aluminum die-cast LED heat sink is threaded to fit the reflector and transfer heat.

Mounting: Trim includes friction blades to mount securely to housing.

OPTIC

Each luminaire includes 10° TIR optic (Note: cannot be changed in the field)
Luminaire is also available with field changeable optics, [Click Here](#) for more information.

ELECTRICAL

Lumens / Wattage: 850lm / 12W

Color Temperature: 2700K, 3000K, 3500K, 4000K

Color Rendering Index: 90+CRI

Operating Temperature: Specified by housing

Lifetime: 50,000 hours @ L70

Dimming: Specified by housing

COMPATIBLE HOUSINGS

Luminaires are compatible with respective Iolite housings manufactured by Nora Lighting.

CATALOG NO.	DESCRIPTION
NHIOICD-48LE4	ICAT New Construction, 120-277V; Triac / ELV / 0-10V
NHIOICD-48LUPEQ	ICAT New Construction, 120/277V; Lutron EcoSystem
NHIOICDP-48LE4	Chicago Plenum, 120-277V; Triac / ELV / 0-10V
NHIOICDP-48LUPEQ	Chicago Plenum, 120/277V; Lutron EcoSystem
NHRIOIC-48LE4	ICAT Remodel, 120-277V; Triac / ELV / 0-10V

Accessories: Luminaires can accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see accessories page. Flush mount mud ring is available to give the appearance of a trimless, compatible with new construction housing only.

LABELS AND LISTINGS

- cULus Listed for Wet Locations
- [5-Year Limited Warranty](#)
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2022



Type

Project

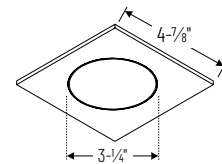
Catalog No.

Notes

Performance Data			
Part Number	Lumens	CCT	CBCP
NIO-4SNDC40QWW	884lm	4000K	8392 cd

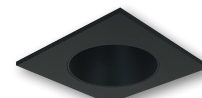
Delivered lumens will vary depending on CCT and finish

PRODUCT IMAGES & DIMENSIONS



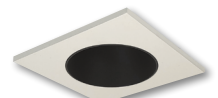
NIO-4SNDC

Square Reflector with Round Aperture
Non-Adjustable



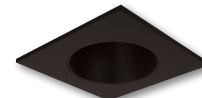
BB

Black Reflector
Black Flange



BW

Black Reflector
White Flange



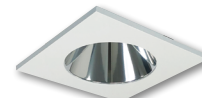
BZ

Bronze Reflector
Bronze Flange



CHMPW

Champagne Haze Reflector
Matte Powder White Flange



CMPW

Specular Clear Reflector
Matte Powder White Flange



HW

Haze Reflector
White Flange



HZMPW

Haze Reflector
Matte Powder White Flange



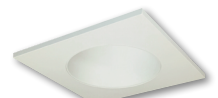
MPW

Matte Powder White Reflector
Matte Powder White Flange



NN

Natural Metal Reflector
Natural Metal Flange



WW

White Reflector
White Flange

4" Iolite Square Reflector with Round Aperture and 10° Optic - Dedicated Housing Required

Color Temperature	Finish
NIO-4SNDC270 = 2700K	BB = Black / Black
NIO-4SNDC300 = 3000K	BW = Black / White
NIO-4SNDC350 = 3500K	BZ = Bronze / Bronze
NIO-4SNDC400 = 4000K	CHMPW = Champagne / Matte Powder White
	CMPW = Specular Clear / Matte Powder White
	HW = Haze / White
	HZMPW = Haze / Matte Powder White
	MPW = Matte Powder White
	NN = Natural Metal / Natural Metal
	WW = White / White

Compatible Housings

Housing Type
NHIOICD-48 = ICAT New Construction / 800-1000lm / 14W
NHIOICDP-48 = Chicago Plenum / 800-1000lm / 14W
NHRIOIC-48 = ICAT Remodel / 800-1000lm / 14W
NHIOICD-415 = ICAT New Construction / 1500lm / 20W
NHIOICDP-415 = Chicago Plenum / 1500lm / 20W
NHIOICD-420 = ICAT New Construction / 2000lm / 24W
NHIOICDP-420 = Chicago Plenum / 2000lm / 24W
NHIOICD-425 = ICAT New Construction / 2500lm / 28W
NHIOICDP-425 = Chicago Plenum / 2500lm / 28W

Example: **NIO-4SNDC40QWW** = 4" Iolite Square Reflector with Round Aperture and 10° Optic, 4000K, White finish

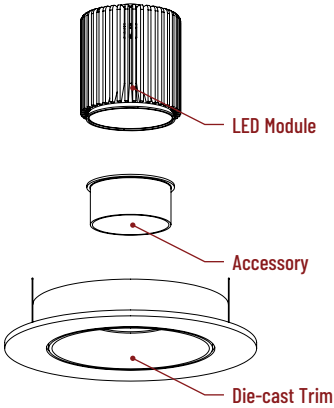
4" Iolite Accessories

4" Iolite Square Reflector with Round Aperture with 10° Optic

Type
Project
Catalog No.
Notes

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.



LED Module

Accessory

Die-cast Trim




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-AS14(color)	5/8" length
NIO-AS19(color)	3/4" length
NIO-AS26(color)	1" length

Color:
MPW (matte powder white), WH (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 20%.

FLUSH MOUNT

4" Iolite trims can be installed flush with the drywall for a flush mount appearance. A flush mount mud ring is installed after the drywall and a professional drywall finisher floats the ceiling to blend in the mud ring.



Flush Mount Mud Ring

NIO-FMMR-4S

Square Mud Ring

Mounts trim flush to ceiling with flange visible. Mud ring attaches to drywall. **Only for use with NH10ICD-48 or NH10ICDCP-48 new construction housings and NIO-4S trims.**

Dimensions: 7-7/8" diameter 1/2" thick

NORA[®]

LIGHTING

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PHOTOMETRICS

4" Iolite Square Reflector with Round Aperture with 10° Optic

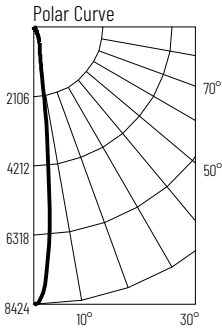
Type

Project

Catalog No.

Notes

Test Information
Test Number: NTR1888R2
Part Number: NIO-4SND40QWW
Beam Spread: 12° Spot
Lumens: 884lm
Wattage: 12.42W
Efficacy: 71lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.22
Spacing Criteria (90°-270°): 0.22



Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
6'	233fc	1'-4"
8'	131fc	1'-10"
10'	83.9fc	2'-2"
12'	58.3fc	2'-7"
14'	42.8fc	3'-1"

Zonal Lumen Summary			Candela Table	
Zone	Lumens	% Luminaire	Vertical Angles	Candela
0-30	741	83.8	0	8392
0-40	833	94.1	5	5543
0-60	874	98.8	15	735
0-90	884	100	25	336
90-180	0	0	35	140
0-180	884	100	45	36

Lumen Output Multipliers
Color Temperature: 2700K (0.9), 3000K (0.96), 3500K (0.96), 4000K (1.00)