NIO-4SNDSO

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

Source: 12W 850lm

PRODUCT DESCRIPTION

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

FEATURES

- · Delivering up to 8674 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, <u>Click Here</u> 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 lolite housings manufactured by Nora Lighting.

CATALOG NO. DESCRIPTION

NHIOICD-48LE4 ICAT New Construction, 120-277V; Triac / ELV / 0-10V
NHIOICD-48LUPE0 ICAT New Construction, 120/277V; Lutron EcoSystem
NHIOICDCP-48LE4 Chicago Plenum, 120-277V; Triac / ELV / 0-10V
NHIOICDCP-48LUPE0 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

- \cdot $\,$ 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

















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



Project

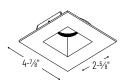
Catalog No.

Notes

Performance Data			
Part Number	Lumens	CCT	CBCP
NIO-4SNDSQ40QWW	895lm	4000K	8674 cd

Delivered lumens will vary depending on CCT and finish

PRODUCT IMAGES & DIMENSIONS



NIO-4SNDSQ

Square Reflector with Square Aperture Non-Adjustable



BB Black Reflector Black Flange



BZ Bronze Reflector Bronze Flange



HN Haze Reflector Natural Metal Flange



Haze Reflector Matte Powder White Flange



BW Black Reflector White Flange



Champagne Haze Reflector Matte Powder White Flange



HW Haze Reflector White Flange



MPWMatte Powder White Reflector
Matte Powder White Flange



WW White Reflector White Flange

Compatible Housings

Туре	Color Temp.	Finish	Housing Type
NIO-4SNDSQ = Square Reflector with Square Aperture	270 = 2700K 300 = 3000K 350 = 3500K	BB = Black / Black BW = Black / White BZ = Bronze / Bronze	NHIOICD-48LE4 = ICAT New Construction; Triac / ELV / 0-10V NHIOICD-48LUPE0 = ICAT New Construction; Lutron EcoSystem NHIOICDCP-48LE4 = Chicago Plenum; Triac / ELV / 0-10V
	400 = 4000K	CHMPW = Champagne / Matte Powder White HN = Haze / Natural Metal HW = Haze / White HZMPW = Haze / Matte Powder White MPW = Matte Powder White WW = White / White	NHIOICDCP-48LUPEQ = Chicago Plenum; Lutron EcoSystem NHRIOIC-48LE4 = ICAT Remodel; Triac / ELV / 0-10V

Example: NIO-4SNDSQ27QWW = 4" lolite Square Reflector with Square Aperture with 10° Optic, 2700K, White finish



4" lolite Accessories

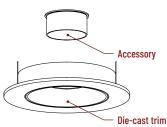
4" Iolite Square Reflector with Square Aperture with 10° Optic

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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.













Translucent Decorative Collar

NIO-AS14(color) 5/8" length NIO-AS19(color) 3/4" length NIO-AS26(color) 1" length <u>Color</u>:

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" lolite 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 NHIOICD-48 or NHIOICDCP-48 new construction housings and NIO-4S trims. Dimensions: 7-1/8" diameter 1/2" thick



PHOTOMETRICS

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

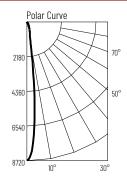
Type
Project
Catalog No.
Notes

Test Information

Test Number: NTR1896R1 Part Number: NIO-4SNDS0400WW Beam Spread: 12° Spot Lumens: 895Im

Lumens: 895lm Wattage: 12.41W Efficacy: 72lpw

CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.22 Spacing Criteria (90°-270°): 0.22



Illuminance	at a	Distance

FC at Nadir	Beam Diameter	
241fc	1'-4"	
136fc	1'-8"	
86.7fc	2'-2"	
60.2fc	2'-7"	
44.3fc	3'	
	241fc 136fc 86.7fc 60.2fc	

Zonal Lumen Summary

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Zone	Lumens	% Luminaire	
0-30	744	83.1	
0-40	833	93	
0-60	882	98.5	
0-90	895	100	
90-180	0	0	
0-180	895	100	

Candela Table

Calluela Lable		
Vertical Angles	Candela	
0	8674	
5	5668	
15	752	
25	323	
35	129	
45	30	

Lumen Output Multipliers

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

