NIO-4SDSO

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

Source: 12W 800lm

PRODUCT DESCRIPTION

4" lolite luminaires can be specified for use with lolite new construction or remodel housings. Die-cast adjustable reflectors optimize visual cut-off and adjustable to aim the light source in desired direction.

- Delivering up to 8730 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: 800lm / 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.

DESCRIPTION CATALOG NO.

ICAT New Construction, 120-277V; Triac / ELV / 0-10V NHIOICD-48LE4 NHIOICD-48LUPEQ ICAT New Construction, 120/277V; Lutron EcoSystem NHIOICDCP-48LE4 Chicago Plenum, 120-277V; Triac / ELV / 0-10V NHIOICDCP-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 Damp Locations
- ENERGY STAR certified
- 5-Year Limited Warranty
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2019



















Project

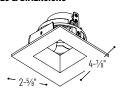
Catalog No.

Notes

Performance Data			
Part Number	Lumens	CCT	CBCP
NIO-4SDSQ40QWW	817lm	4000K	8730 cd

Delivered lumens will vary depending on CCT and finish

PRODUCT IMAGES & DIMENSIONS



NIO-4SDSQ

Square Adjustable Reflector with Square Aperture Adjustability:

New Construction: 38° / Remodel: 20°



Black Reflector Black Flange



BW Black Reflector White Flange



BZ Bronze Reflector Bronze Flange



CHMPW Champagne Haze Reflector Matte Powder White Flange



Haze Reflector White Flange



Haze Reflector Matte Powder White Flange





Matte Powder White Reflector Matte Powder White Flange

Compatible Housings

White Reflector White Flange

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

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

Example: NIO-4SDSQ4QQWW = 4" lolite Square Adjustable Reflector with Square Aperture with 10° Optic, 4000K, White finish



4" lolite Accessories

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

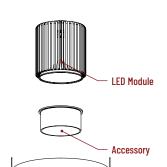
Die-cast trim

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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.

a space.









Translucent Decorative Collar

NIO-AS14(color) NIO-AS19(color)	5%" length 3¼" length
NIO-AS26(color)	1" length
Color: AM (amber), BLU (blue), FR (f	rosted), 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

Color:

Opaque Collar Snoot

NIO-AS14(color)

NIO-AS19(color)

NIO-AS26(color)

BLK (black), MPW (matte powder white), WH (white)

Opaque snoot greatly reduces aperture brightness while preserving light output. (Note: Black snoot will reduce light)

Hex Cell Louver

5∕8" length

3/4" length

1″ length

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

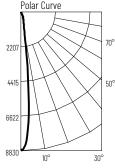
4" Iolite Square Adjustable Reflector with Square Aperture with 10° Optic

Type **Project** Catalog No. **Notes**

Test Information

Test Number: NTR1900R1 Part Number: NIO-4SDSQ40QWW Beam Spread: 12° Spot Lumens: 817lm Wattage: 12.42W Efficacy: 66lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.22

Spacing Criteria (90°-270°): 0.22



	Polar Curve	
,		70°
2207		///
4415		50°
6622		
8830	10°	30°

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir Beam Diameter	
6'	242fc	1'-4"
8'	136fc	1'-8"
10'	87.3fc	2'-2"
12'	60.6fc	2'-7"
14'	44.5fc	3'

Zonal Lumen Summary

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Zone	Lumens	% Luminaire
0-30	740	90.7
0-40	788	96.5
0-60	806	98.7
0-90	817	100
90-180	0	0
0-180	817	100

Vertical Angles	Candela
0	8730
5	5736

683

232

21 7

15

25

35

45

Candela Table

Lumen Output Multipliers

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

