NIO-4SD

4" Iolite Square Deep Adjustable Reflector with 10° Optic

Source: 12W 850lm

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 9038 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 trim 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 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 trimless, compatible with new construction housings only.

LABELS AND LISTINGS

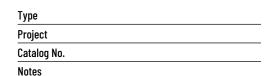
- cULus Listed for Damp Locations
- 5-Year Limited Warranty
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2022







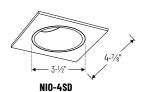




Performance Data			
Part Number	Lumens	CCT	CBCP
NIO-4RD40QWW	874lm	4000K	9038 cd

Delivered lumens will vary depending on CCT and finish

PRODUCT IMAGES & DIMENSIONS



Square Deep Adjustable Reflector Adjustability:

New Construction: 40° / Remodel: 25°



BB Black Reflector Black Flange



Black Reflector White Flange



ΒZ Bronze Reflector Bronze Flange



CHMPW Champagne Haze 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

Natural Metal Reflector Natural Metal Flange



White Reflector White Flange

Compatible Housings

4" lolite Square Deep Adjustable Reflector with 10° Optic - Dedicated Housing Required		Compatible Housings
Color Temperature	Finish	Housing Type
NIO-4SD270 = 2700K NIO-4SD300 = 3000K NIO-4SD350 = 3500K NIO-4SD400 = 4000K	SOO = 3000K BW = Black / White 150 = 3500K 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 NHIOICDCP-48LUPE0 = Chicago Plenum; Lutron EcoSystem NHRIOIC-48LE4 = ICAT Remodel; Triac / ELV / 0-10V
	NN = Natural Metal / Natural Metal WW = White / White	

Example: NIO-4SD40QWW = 4" lolite Square Deep Adjustable with 10° Optic, 4000K, White finish



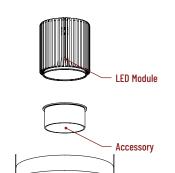
4" lolite Accessories

4" Iolite Square Deep Adjustable Reflector 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.



Die-cast Trim







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

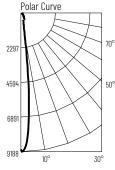
4" Iolite Square Deep Adjustable Reflector with 10° Optic

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

Test Information

Test Number: NTR1892R1 Part Number: NIO-4SD40QWW Beam Spread: 12° Spot Lumens: 874lm Wattage: 12.42W Efficacy: 70lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180°): 0.22

Spacing Criteria (90°-270°): 0.22



Po	olar Curve	
		F
2297	$ \bigcirc $	70°
4594		50°
6891	+	
9188	10°	30°

Illuminance at a Distance					
Distance from Luminaire	FC at Nadir			Beam Diameter	
6'		251fc		1'-4"	
8'		141fc		1'-8"	
10'		90.4fc		2'-1"	
12'		62.8fc		2'-7"	
14'		46.1fc		3'	

Zonal Lumen Summar			
Zone	Lumens		

onal Lumen Summary				Candela 1	Table	
Zone	Lumens	% Luminaire		Vertical Angles	Candela	
0-30	764	87.3		0	9038	
0-40	838	95.8		5	5946	
0-60	863	98.6		15	715	
0-90	874	100		25	316	
90-180	0	0		35	76	
0-180	874	100		45	15	

Lumen Output Multipliers

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

