NIO-4SD 4" Iolite Square Deep Adjustable Reflector

Source: 14W to 24W LED

800lm to 2000lm

PRODUCT DESCRIPTION

4" lolite LED downlights require a dedicated lolite new construction or remodel housing. Die-cast adjustable reflectors optimize visual cut-off and adjustable to aim the light source in desired direction.

FEATURES

- 800lm, 1000lm, 1500lm or 2000lm LED packages
- 2700K, 3000K, 3500K, 4000K, 5000K @ 90+ CRI
- Comfort Dim (warm dimming) also available
- Flood optic, narrow flood and spot optics (included)
- 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: Luminaire includes friction blades to mount securely to housing.

OPTICS

800-1000im: Three field changeable optics (spot, narrow flood and flood) are included with each LED module. Premium 10° TIR narrow spot optic assembly also available (Click Here for more information). Optional frosted and TIR optics are also available. 1500-2000Im: Three field changeable TIR optics (spot, narrow flood and flood) are included with each LED module.

ELECTRICAL

Lumens / Wattage: 800lm / 14W, 1000lm / 14W, 1500lm / 20W, 2000lm / 24W Color Temperature: 2700K, 3000K, 3500K, 4000K, 5000K Color Rendering Index: 90+CRI **Operating Temperature:** Specified by housing Lifetime: 50,000 hours @ L70 Comfort Dim: Comfort Dim color tunes the temperature from a bright 3100K (800Im) or 3000K (HL), to a romantic and comfortable 2000K on a gradual, even curve. Available in 800lm or HL (1500lm-2500lm). **Dimming:** Specified by housing

COMPATIBLE HOUSINGS

Luminaires are compatible with respective lolite housings manufactured by Nora Lighting. ŃATTAGE

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	CATALOG NO.	DESCRIPTION	LUMENS / WATTAG
	NHIOICD-48	ICAT New Construction	800-1000lm / 14W
	NHIOICDCP-48	Chicago Plenum	800-1000lm / 14W
	NHRIOIC-48	ICAT Remodel	800-1000lm / 14W
	NHIOICD-415	ICAT New Construction	1500lm / 20W
	NHIOICDCP-415	Chicago Plenum	1500lm / 20W
	<u>NHIOICD-420</u>	ICAT New Construction	2000lm / 24W
	NHIOICDCP-420	Chicago Plenum	2000lm / 24W

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

Color Temperature

NIO-4SD50X = 5000K*

NIO-4SD27X = 2700K

NIO-4SD30X = 3000K

NIO-4SD35X = 3500K

NIO-4SD40X = 4000K

NIO-4SD50X = 5000K

NIO-4SDCDX = Comfort Dim[†]

NIO-4SDCDX = Comfort Dimi

Certified to the high efficacy requirements of California Title 24 JA8-2022

Finish

4" Iolite Square Deep Adjustable Reflector - Dedicated Housing Required

BB = Black / Black

BW = Black / White

HW = Haze / White

WW = White / White

MPW = Matte Powder White

BZ = Bronze / Bronze

CHMPW = Champagne / Matte Powder Wh

HZMPW = Haze / Matte Powder White

NN = Natural Metal / Natural Metal



	Lumens / Wattage
	(blank) = 800lm / 14W
hite	/10 = 1000lm / 14W /HL = 1500-2000lm (varies by housing)

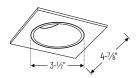
Type

Project

Catalog No.

Notes

PRODUCT IMAGES & DIMENSIONS



NIO-4SD Square Deep Adjustable Reflector Adjustability: New Construction: 40° (800-2000lm) Remodel: 25° (800-1000lm)



Black Reflector Black Flange

BW Black Reflector White Flange





ΒZ Bronze Reflector Bronze Flange

CHMPW Champagne Haze Reflector Matte Powder White Flange



HW Haze Reflector White Flange

H7MPW Haze Reflector Matte Powder White Flange



NN

MPW Matte Powder White Reflector Matte Powder White Flange

Natural Metal Reflector Natural Metal Flange

ww White Reflector White Flange

Compatible Housings

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

5000K LED modules in 800lm are while supplies last

Comfort Dim available in 800lm only and 1" lolite uses a different dimming curve than 2" & 4" lolite

Example: NIO-4SD50XWW = 4" lolite Square Deep Adjustable, 5000K, White finish, 800lm

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4" lolite Accessories

4" Iolite Square Deep Adjustable Reflector

Type Project

Catalog No.

Notes

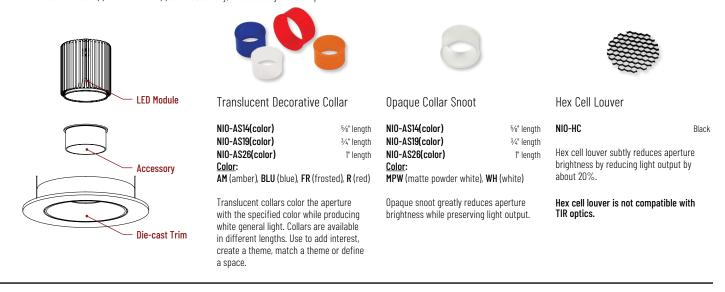
FIELD CHANGEABLE OPTICS

lolite luminaires include spot, narrow flood and flood optics. Optics can be changed in the field by removing LED module from die-cast trim. Optional frosted and TIR optics are also available. <u>Note</u>: Frosted and Premium TIR optics are not compatible with /HL LED modules.



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.



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

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 reflectors.** Dimensions: 7-1/8" diameter 1/2" thick



PHOTOMETRICS

Test Information

Test Number: NTR11292

Beam Spread: 28° Spot

CCT / CRI: 3000K / 90 CRI Spacing Criteria (0°-180°): 0.48

Spacing Criteria (90°-270°): 0.48

Lumens: 1041lm

Wattage: 13.4W

Efficacy: 78lpw

Part Number: NIO-4SD30XBW/10

4" Iolite Square Deep Adjustable Reflector 1000 lumens

Туре

Project

Beam Diameter

2'

3'

4

5'

6'-1"

Catalog No.

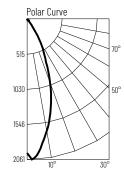
Notes

Zonal	Lume	Candela T			
Zo	ne	Lumens	% Luminaire	Vertical Angles	I
0-	30	879	84.5	0	Ī
0-4	40	979	94.1	5	Ī
0-	60	1028	98.8	15	Ī
0-9	90	1032	99.2	25	Ī
90-	180	8	0.8	35	I
0-1	80	1041	100	45	I

Candela Table		
Vertical Angles	Candela	
0	2975	
5	2906	
15	1364	
25	540	
35	221	
45	110	

Test Information

Test Number: NTR11294 Part Number: NI0-4SD30XBW/10 Beam Spread: 39° Narrow Flood Lumens: 1011lm Wattage: 13.55W Efficacy: 751pw CCT / CRI: 3000K / 90 CRI Spacing Criteria (0°-180°): 0.66 Spacing Criteria (90°-270°): 0.66



Polar Curve

752

1503

2255

3007

'n°	Illuminance at a Distance from Luminaire	Distance FC at Nadir	Beam Diameter
	4'	124fc	2'-10"
-00	6'	55.3fc	4'-2"
i0°	8'	31.1fc	5'-7"
	10'	19.9fc	7'-1"
	12'	13.8fc	8'-6"

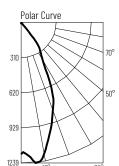
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	856	84.7
0-40	951	94.1
0-60	996	98.5
0-90	1002	99.1
90-180	9	0.9
0-180	1011	100

Candela Table

Califical a l'aple	
Vertical Angles	Candela
0	1992
5	2034
15	1398
25	614
35	212
45	101

Test Information

Test Number: NTR11296 Part Number: NIO-4SD30XBW/10 Beam Spread: 51° Flood Lumens: 981Im Wattage: 13.43W Efficacy: 73Ipw CCT / CRI: 3000K / 90 CRI Spacing Criteria (0°-180°): 0.84 Spacing Criteria (90°-270°): 0.9



Illuminance at a Distance

Illuminance at a Distance

FC at Nadir

186fc

82.7fc

46.5fc

29.8fc

20.7fc

Distance from

Luminaire

4'

6'

8'

10'

12'

70°

50°

30

70°	Distance from Luminaire	FC at Nadir	Beam Diameter
	4	75.4fc	3'-8"
-00	6'	33.5fc	5'-6"
50°	8'	18.9fc	7'-5"
	10'	12.1fc	9'-2"
	12'	8.4fc	11'

Zonal Lumen Summary

Zunai Lunien Summary			
Zone	Lumens	% Luminaire	
0-30	708	72.1	
0-40	893	91.1	
0-60	963	98.2	
0-90	971	99	
90-180	9	1	
0-180	981	100	

Candela Table

Vertical Angles	Candela
0	1207
5	1221
15	1060
25	594
35	324
45	113

Lumen Output Multipliers

Color Temperature: 2700K (0.98), 3000K (1.00), 3500K (1.09), 4000K (1.19), 5000K (1.16)

NORA