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 in 800lm only .
- 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, to a romantic and comfortable 2000K on a gradual, even curve. Available in 800lm only. **Dimming:** Specified by housing

COMPATIBLE HOUSINGS

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

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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
NHIOICD-420	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
- Certified to the high efficacy requirements of California Title 24 JA8-2019 .



Trim Type	Color Temperature Finish		Lumens / Wattage	Housing Type
NIO-4SD = Square Deep Adjustable	50X = 5000K* CDX = Comfort Dim [†]	BB = Black / Black BW = Black / White	(blank) = 800lm / 14W	NHIOICD-48 = ICAT New Construction / 800-1000lm / 14W NHIOICDCP-48 = Chicago Plenum / 800-1000lm / 14W
	27X = 2700K 30X = 3000K 35X = 3500K 40X = 4000K 50X = 5000K	BZ = Bronze / Bronze CHMPW = Champagne / Matte Powder White HW = Haze / White HZMPW = Haze / Matte Powder White MPW = Matte Powder White NN = Natural Metal / Natural Metal WW = White / White	/10 = 1000lm / 14W /HL = 1500-2000lm (varies by housing)	NHRIOIC-48 = ICAT Remodel / 800-1000Im / 14W NHIOICD-415 = ICAT New Construction / 1500Im / 20W NHIOICDCP-415 = Chicago Plenum / 1500Im / 20W NHIOICD-420 = ICAT New Construction / 2000Im / 24W NHIOICDCP-420 = Chicago Plenum / 2000Im / 24W

Example: NIO-4SD50XWW = 4" lolite Square Deep Adjustable, 5000K, White finish, 800lm / 14W

IN G

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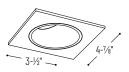
Type

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

Haze Reflector Matte Powder White Flange

H7MPW



MPW Matte Powder White Reflector Matte Powder White Flange

NN Natural Metal Reflector Natural Metal Flange

ww White Reflector White Flange

4" lolite Accessories

4" Iolite Square Deep Adjustable Reflector

Type Project

Catalog No.

Notes

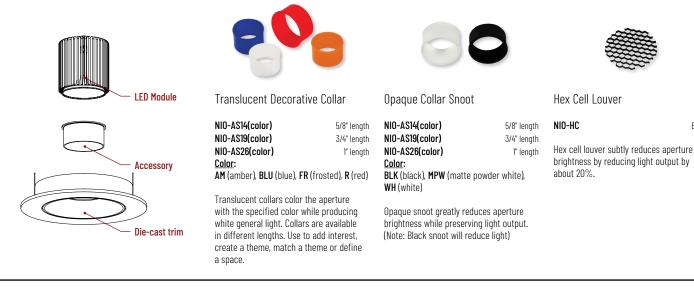
FIELD CHANGEABLE OPTICS

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.
Note: 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

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



Black

PHOTOMETRICS

Test Information

Test Number: NTR11292

Beam Spread: 28° Spot

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

Spacing Criteria (90º-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.

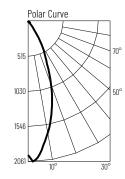
Notes

Zonal Lume	Zonal Lumen Summary			Candela	Ta
Zone	Lumens	% Luminaire		Vertical Angles	
0-30	879	84.5		0	T
0-40	979	94.1		5	Ī
0-60	1028	98.8		15	T
0-90	1032	99.2		25	
90-180	8	0.8		35	I
0-180	1041	100		45	

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

Test Information

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



Polar Curve

752

1503

2255

3007

70°	Distance from Luminaire	FC at Nadir	Beam Diameter
	4	124fc	2'-10"
-00	6'	55.3fc	4'-2"
50°	8'	31.1fc	5'-7"
	10'	19.9fc	7'-1"
	12'	13.8fc	8'-6"

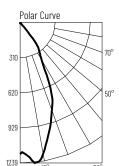
Zonal Lumen Summary				
Zone	Lumens	% Luminaire		
0-30	856	84.7		
0-40	951	94.1		
0-60	996	98.5		
0-90	1002	99.1		
90-180	9	0.9		
0-180	1011	100		

Candela Table

Califical apple		
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: 731pw CCT / CRI: 3000K / 90 CRI Spacing Criteria (0º–180): 0.84 Spacing Criteria (90º–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

′0°	Distance from Luminaire	FC at Nadir	Beam Diameter
	4	75.4fc	3'-8"
00	6'	33.5fc	5'-6"
i0°	8'	18.9fc	7'-5"
	10'	12.1fc	9'-2"
	12'	8.4fc	11'

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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