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, 2000lm or 2500lm LED packages
- 2700K, 3000K, 3500K, 4000K, 5000K @ 90+ CRI
- Comfort Dim (warm dimming) also available in 800Im 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 (<u>Click Here</u> for more information). Optional frosted and TIR optics are also available. **1500-2500Im:** 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, 2500lm / 28W 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 800Im <u>only</u>. Dimming: Specified by housing

COMPATIBLE HOUSINGS

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

CATALOG NO.	DESCRIPTION	LUMENS / WAITAGE
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
NHIOICD-425	ICAT New Construction	2500lm / 28W
NHIOICDCP-425	Chicago Plenum	2500lm / 28W
	•	

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
- <u>5-Year Limited Warranty</u>
- RoHS Compliant
- · Certified to the high efficacy requirements of California Title 24 JA8-2019



4" Iolite Square Adjustable Gimbal - Dedicated Housing Required				Compatible Housings
Trim Type	Color Temp.	Finish	Lumens / Wattage	Housing Type
NIO-4SG = Square Adjustable Gimbal	50X = 5000K* CDX = Comfort Dim [†]	BB = Black BZ = Bronze	(blank) = 800lm / 14W	NHIOICD-48 = ICAT New Construction / 800-1000Im / 14W NHIOICDCP-48 = Chicago Plenum / 800-1000Im / 14W
27X = 2700K 30X = 3000K 35X = 3500K 40X = 4000K 50X = 5000K	30X = 3000K 35X = 3500K 40X = 4000K	MPW = Matte Powder White NN = Natural Metal WW = White	/10 = 1000lm / 14W /HL = 1500-2500lm (varies by housing)	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 wh [†] Comfort Dim available in 800lm only		mming curve than 2" & 4" lolite		NHIOICD-425 = ICAT New Construction / 2500lm / 28W NHIOICDCP-425 = Chicago Plenum / 2500lm / 28W

Example: NIO-4SG50XWW = 4" lolite Square Adjustable Gimbal, 5000K, White finish, 800lm / 14W



Туре

Project

Catalog No.

Notes

PRODUCT IMAGES & DIMENSIONS

BB

Black

MPW

Matte Powder White

WW White 3-1/4"

NIO-4SG Square Adjustable Gimbal

Adjustability:

New Construction: 45° (800-1000lm) / 35° (1500-2500lm)

Remodel: 45° (800-1000lm)

4-7/8

ΒZ

Bronze

NN

Natural Metal

111722P

4" lolite Accessories

4" lolite Square Adjustable Gimbal

Type Project

Catalog No.

Notes

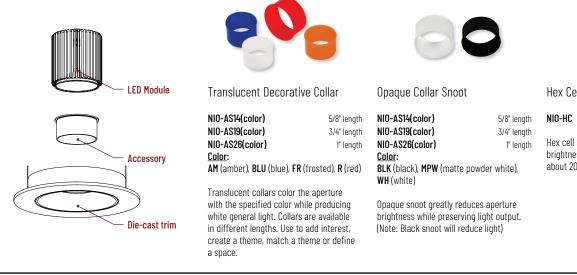
FIELD CHANGEABLE OPTICS

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.



Hex Cell Louver

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



PHOTOMETRICS

Test Information

Test Number: NTR11236

Beam Spread: 26° Spot

CCT / CRI: 3000K / 90 CRI Spacing Criteria (0º-180): 0.44

Spacing Criteria (90º-270): 0.46

Lumens: 1111lm

Efficacy: 85lpw

Wattage: 13W

Part Number: NIO-4SG3025WW/10

4" lolite Square Adjustable Gimbal 1000 lumens

Туре

Project

Beam Diameter

1'-10"

2'-8"

3'-7"

4'-6"

5'-5"

Catalog No.

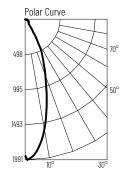
Notes

Zonal Lumen Summary				Candela	Ta
Zone	Lumens	% Luminaire		Vertical Angles	
0-30	795	71.6		0	
0-40	911	82		5	
0-60	1022	92		15	
0-90	1104	99.3		25	
90-180	8	0.7		35	
0-180	1111	100		45	

Candela Table				
Vertical Angles	Candela			
0	2822			
5	2559			
15	1111			
25	550			
35	150			
45	76			

Test Information

Test Number: NTR11237 Part Number: NIO-4SG3038WW/I0 Beam Spread: 36° Narrow Flood Lumens: 1098Im Wattage: 13W Efficacy: 84Ipw CCT / CRI: 3000K / 90 CRI Spacing Criteria (0º-180): 0.6 Spacing Criteria (90º-270): 0.62



Polar Curve

728

1456

2184

2912

70°	Distance from Luminaire	FC at Nadir	Beam Diameter
	4'	120fc	2'-7"
500	6'	53.5fc	3'-11"
50°	8'	30.1fc	5'-2"
	10'	19.3fc	6'-6"
	12'	13.4fc	7'-10"

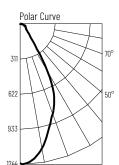
Zonal Lumen Summary				
Zone	Lumens	% Luminaire		
0-30	766	69.7		
0-40	890	81.1		
0-60	1005	91.5		
0-90	1090	99.3		
90-180	8	0.7		
0-180	1098	100		

Candela Table

Calificeia Table		
Vertical Angles	Candela	
0	1928	
5	1839	
15	1187	
25	578	
35	163	
45	76	
40	70	

Test Information

Test Number: NTR11238 Part Number: NIO-4SG3060WW/10 Beam Spread: 55° Flood Lumens: 1084Im Wattage: 13W Efficacy: 83Ipw CCT / CRI: 3000K / 90 CRI Spacing Criteria (0º-180): 0.84 Spacing Criteria (90º-270): 0.84



Illuminance at a Distance

Illuminance at a Distance

FC at Nadir

176fc

78.4fc

44.1fc

28.2fc

19.6fc

Distance from

Luminaire

4'

6'

8'

10'

12'

70°

50°

30

70°	Distance from Luminaire	FC at Nadir	Beam Diameter
	4	77.3fc	4'-2"
-00	6'	34.4fc	6'-2"
50°	8'	19.3fc	8'-4"
	10'	12.4fc	10'-5"
	12'	8.6fc	12'-6"
	u		

Zundi Lumen Summary				
Zone	Lumens	% Luminaire		
0-30	701	64.7		
0-40	859	79.2		
0-60	987	91.1		
0-90	1077	99.3		
90-180	7	0.7		
0-180	1084	100		

Candela Table

Vertical Angles	Candela	
0	1237	
5	1212	
15	971	
25	713	
35	227	
45	89	

Lumen Output Multipliers

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

