NIO-4RD

4" Iolite Round 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.

CATALOG NO.	DESCRIPTION	LUMENS / WATTAGE
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 JA8-2022









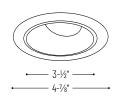






Type Project Catalog No. Notes

PRODUCT IMAGES & DIMENSIONS



NIO-4RD

Round Deep Adjustable Reflector Adjustability: New Construction: 40° (800-2000lm) Remodel: 25° (800-1000lm)



BB Black Reflector Black Flange



ΒZ Bronze Reflector



HW Haze Reflector White Flange



Matte Powder White Reflector Matte Powder White Flange



White Reflector White Flange

Compatible Housings



Black Reflector White Flange



Champagne Haze Reflector Matte Powder White Flange



H7MPW Haze Reflector Matte Powder White Flange



Natural Metal Reflector Natural Metal Flange



4" lolite Round Deep Adjustable Reflector - Dedicated Housing Required

Trim Type	Color Temperature	Finish	Lumens / Wattage	Housing Type
NIO-4RD = Round Deep Adjustable	50X = 5000K* CDX = Comfort Dim [†]	BB = Black / Black BW = Black / White BZ = Bronze / Bronze CHMPW = Champagne / Matte Powder White HW = Haze / White HZMPW = Haze / White MPW = Matte Powder White MPW = Matte Powder White NN = Natural Metal / Natural Metal WW = White / White	(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		/10 = 1000lm / 14W /HL = 1500-2000lm (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 † Comfort Dim available in 800lm or	1.1	rent dimming curve than 2" & 4" lolite		

Example: NIO-4RD50XWW = 4" lolite Round Deep Adjustable, 5000K, White finish, 800lm / 14W



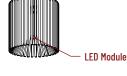
4" lolite Accessories

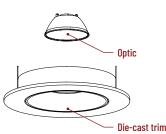
4" Iolite Round Deep Adjustable Reflector

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.









Frosted Filter-Optic

NIO-REFL38FR 60° Optic NIO-REFL60FR 73° Optic

Not compatible with /HL LED module.



Premium TIR Optics

NIO-REFLTIR15 22° Optic NIO-REFLTIR25 26° Optic

Not compatible with /HL or Comfort Dim (CDX) LED modules

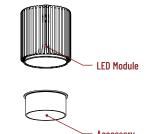


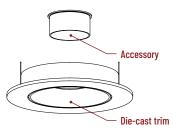
10° TIR Optic Assembly

Specialized narrow spot LED module assembly is also available. Requires LE4 housing, Click Here for more information.

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.







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

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-4R Round Mud Ring

Mounts reflector 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-4R trims. Dimensions: 7-1/8" diameter 1/2" thick

PHOTOMETRICS

4" Iolite Round Deep Adjustable Reflector 1000 lumens Type

Project

Catalog No.

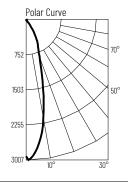
Notes

Test Information

Test Number: NTR11292
Part Number: NIO-4RD30XBW/10
Beam Spread: 28° Spot
Lumens: 104Ilm
Wattage: 13.4W
Efficacy: 78Ipw
CCT / CRI: 3000K / 90 CRI

Spacing Criteria (0º-180): 0.48

Spacing Criteria (90º-270): 0.48



Illuminance	at a	Distance

FC at Nadir	Beam Diameter	
186fc	2'	
82.7fc	3'	
46.5fc	4'	
29.8fc	5'	
20.7fc	6'-1"	
	186fc 82.7fc 46.5fc 29.8fc	

Zonal Lumen Summary

	-	
Zone	Lumens	% Luminaire
0-30	879	84.5
0-40	979	94.1
0-60	1028	98.8
0-90	1032	99.2
90-180	8	0.8
0-180	1041	100

Candela Table

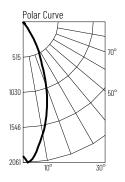
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Vertical Angles	Candela	
0	2975	
5	2906	
15	1364	
25	540	
35	221	
45	110	

Test Information

Test Number: NTR11294 Part Number: NIO-4RD30XBW/10 Beam Spread: 39° Narrow Flood Lumens: 1011lm

Lumens: IUIIIm Wattage: 13.55W Efficacy: 75lpw CCT / CRI: 3000K / 90 CRI

Spacing Criteria (0° -180): 0.66 Spacing Criteria (90° -270): 0.66



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	124fc	2'-10"
6'	55.3fc	4'-2"
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

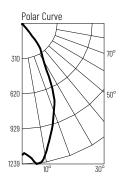
Candela Table

Vertical Angles	Candela
0	1992
5	2034
15	1398
25	614
35	212
45	101
43	101

Test Information

Pest Number: NTR11296 Part Number: NIO-4RD30XBW/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

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

Zonal Lumen 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)