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
- 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.

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
- 5-Year Limited Warranty
- **RoHS Compliant**
- Certified to the high efficacy requirements of California Title 24 JA8-2022







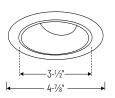






Type Project Catalog No. Notes

PRODUCT IMAGES & DIMENSIONS



NIO-4RD Round Deep Adjustable Reflector Adjustability:

New Construction: 40° (800-2000lm) Remodel: 25° (800-1000lm)



Black Reflector Black Flange



Black Reflector White Flange



ΒZ Bronze Reflector Bronze Flange



Champagne Haze Reflector Matte Powder White Flange



HW Haze Reflector White Flange



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

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

Housing Type

4" lolite Round Deep Adjustable Reflector - Dedicated Housing Required

Color Temperature	Finish	Lumens / Wattage
NIO-4RD50X = 5000K* NIO-4RDCDX = Comfort Dim [†]	BB = Black / Black BW = Black / White	(blank) = 800lm / 14W
NIO-4RD27X = 2700K NIO-4RD30X = 3000K NIO-4RD35X = 3500K NIO-4RD40X = 4000K NIO-4RD50X = 5000K NIO-4RDCDX = Comfort Dim!	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 = 1000Im / 14W /HL = 1500-2000Im (varies by housing)

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



4" lolite Accessories

4" Iolite Round Deep Adjustable Reflector

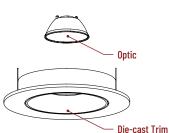
Type
Project
Catalog No.
Notes

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 Optics

 NIO-REFL38FR
 60° Optic

 NIO-REFL60FR
 73° Optic

Not compatible with /HL LED module.



22° Optic

26° Optic

Premium TIR Optics

NIO-REFLTIR15 NIO-REFLTIR25

Not compatible with /HL, Comfort Dim (CDX) LED modules or Hex Cell Louver.

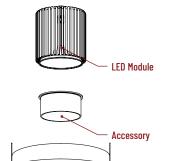


10° TIR Optic Assembly

Specialized narrow spot LED module assembly is also available. Requires LE4 housing, <u>Click Here</u> 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.



Die-cast Trim



Translucent Decorative Collar

 NIO-AS14(color)
 %" length

 NIO-AS19(color)
 ¾" length

 NIO-AS26(color)
 1" length

 Color:
 1" length

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%" length
NIO-AS19(color) 54" 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%.

Hex cell louver is not compatible with TIR optics.

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: 7-7/s" diameter $\frac{1}{2}$ " thick



PHOTOMETRICS

4" Iolite Round Deep Adjustable Reflector 1000 lumens

Type

Project

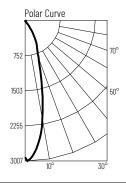
Catalog No.

Notes

Test Information

Test Number: NTR11292 Part Number: NIO-4RD30XBW/10 Beam Spread: 28° Spot Lumens: 1041lm Wattage: 13.4W Efficacy: 78lpw CCT / CRI: 3000K / 90 CRI Spacing Criteria (0°-180°): 0.48

Spacing Criteria (90°-270°): 0.48



Illuminance at	а	Distance
Dietanco from		

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	186fc	2'
6'	82.7fc	3'
8'	46.5fc	4'
10'	29.8fc	5'
12'	20.7fc	6'-1"

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

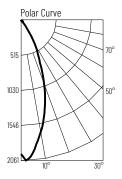
Candala Table

Calluela Lable	
Candela	
2975	
2906	
1364	
540	
221	
110	

Test Information Test Number: NTR11294

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

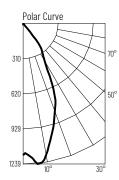
Candela Table

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

Test Information

Test Number: NTR11296 Part Number: NIO-4RD30XBW/10 Beam Spread: 51° Flood Lumens: 981lm Wattage: 13.43W Efficacy: 73lpw

CCT / CRI: 3000K / 90 CRI Spacing Criteria (0°-180°): 0.84 Spacing Criteria (90°-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)