

NIO-4RTLND

4" Iolite Round Trimless Downlight with 10° Optic

Source: 12W  
850lm

PRODUCT DESCRIPTION

4" Trimless Iolite downlights have no exposed trim flange and do not extend beyond the ceiling plane. Iolite Trimless requires a Trimless Mud Ring and New Construction housing. Deep regressed cone reflectors optimize visual cut-off.

FEATURES

- Trimless knife edge appearance
- Delivering up to 8324 center beam candlepower (CBCP)
- 2700K, 3000K, 3500K, 4000K @ 90+ CRI
- 10° TIR optic delivers luminous intensity of higher lumen downlights
- 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 reflector and transfer heat.

**Mounting:** Luminaire includes stainless steel friction clips to mount securely to trimless mud ring. Mud ring is required per trimless downlight.

OPTIC

Each luminaire includes 10° TIR optic (Note: cannot be changed in the field)  
Luminaire is also available with field changeable optics, [Click Here](#) for more information.

ELECTRICAL

**Lumens / Wattage:** 850lm / 12W  
**Color Temperature:** 2700K, 3000K, 3500K, 4000K  
**Color Rendering Index:** 90+ CRI  
**Operating Temperature:** Specified by housing  
**Lifetime:** 50,000 hours @ L70  
**Dimming:** Specified by housing

COMPATIBLE HOUSINGS

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

CATALOG NO.	DESCRIPTION
<a href="#">NHIOICD-48LE4</a>	ICAT New Construction, 120-277V; Triac / ELV / 0-10V
<a href="#">NHIOICD-48LUPEQ</a>	ICAT New Construction, 120/277V; Lutron EcoSystem
<a href="#">NHIOICDCP-48LE4</a>	Chicago Plenum, 120-277V; Triac / ELV / 0-10V
<a href="#">NHIOICDCP-48LUPEQ</a>	Chicago Plenum, 120/277V; Lutron EcoSystem

**Accessories:** Luminaire will accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see page 2. A mud ring ([NIO-TLMR-4RA](#)) or flange accessory ([NIO-4RTFA](#)) is required per trimless.

LABELS AND LISTINGS

- cULus Listed for Wet Locations
- [5-Year Limited Warranty](#)
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2022

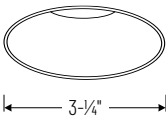


Type
Project
Catalog No.
Notes

Performance Data			
Part Number	Lumens	CCT	CBCP
NIO-4RTLND40QWW	875lm	4000K	8324 cd

Delivered lumens will vary depending on CCT and finish

PRODUCT IMAGES AND DIMENSIONS



NIO-4RTLND  
Round Trimless Downlight  
Non-Adjustable



BB  
Black Reflector



BZ  
Bronze Reflector



HZ  
Haze Reflector



MPW  
Matte Powder White Reflector



WW  
White Reflector

4" Iolite Round Trimless Downlight with 10° Optic - New Construction Housing & Trimless Mud Ring Required

Color Temperature	Finish
NIO-4RTLND270 = 2700K	BB = Black
NIO-4RTLND300 = 3000K	BZ = Bronze
NIO-4RTLND350 = 3500K	HZ = Haze
NIO-4RTLND400 = 4000K	MPW = Matte Powder White
	WW = White

Compatible Housings

Housing Type
NHIOICD-48LE4 = ICAT New Construction; Triac / ELV / 0-10V
NHIOICD-48LUPEQ = ICAT New Construction; Lutron EcoSystem
NHIOICDCP-48LE4 = Chicago Plenum; Triac / ELV / 0-10V
NHIOICDCP-48LUPEQ = Chicago Plenum; Lutron EcoSystem

4" Iolite Trimless Mud Ring

Description
NIO-TLMR-4RA = 4" Round Trimless Mud Ring

Example: NIO-4RTLND40QWW / NIO-TLMR-4RA = 4" Iolite Round Trimless Reflector with 10° Optic, 4000K, White finish / Round Trimless Mud Ring

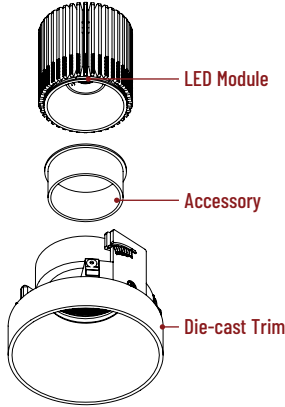
4" Iolite Accessories

4" Iolite Round Trimless Downlight with 10° Optic

Type
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ACCESSORIES


Iolite 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.



LED Module

Accessory

Die-cast Trim




Translucent Decorative Collar

NIO-AS14(color)	5/8" length
NIO-AS19(color)	3/4" length
NIO-AS26(color)	1" length

Color:  
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

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%.

TRIMLESS MUD RING

4" Iolite trimless has no exposed trim flange and the result is a minimalist knife edge appearance. A trimless mount mud ring is installed after the drywall and a professional drywall finisher floats the ceiling to blend in the mud ring.



Mud Ring

NIO-TLMR-4RA

Round Mud Ring

Mounts trimless reflector with no exposed flange and no extension beyond ceiling plane. Mud ring attaches to drywall. **Only for use with NHIOICD-48, NHIOICDCP-48 new construction housings and NIO-4RTLND.**  
Dimensions: 7-7/8" diameter 1/2" thick

FLANGE ACCESSORY

4" Iolite trimless can be converted into flanged trim. Flange accessory allows trim to be used with remodel and new construction housings. Accessory does not require mud ring or professional drywall installation.



Flange Accessory

NIO-4RTFABB	Black Flange
NIO-4RTFABZ	Bronze Flange
NIO-4RTFACH	Champagne Haze Flange
NIO-4RTFAHZ	Haze Flange
NIO-4RTFAMPW	Matte Powder White Flange
NIO-4RTFAWH	White Flange



SUCTION CUP

Assist removing trimless reflector from finished ceiling after installation. For maintenance on downlight, housing and/or driver.



Suction Cup for Removal

NIO-TLSUCTION

PHOTOMETRICS

4" Iolite Round Trimless Downlight with 10° Optic

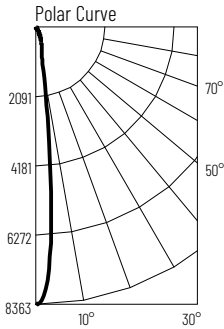
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**Test Information**  
Test Number: NTR1898R1  
Part Number: NIO-4RTLND40QWW  
Beam Spread: 12° Spot  
Lumens: 875lm  
Wattage: 12.42W  
Efficacy: 70lpw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180°): 0.22  
Spacing Criteria (90°-270°): 0.22



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	231fc	1'-4"
8'	130fc	1'-8"
10'	83.2fc	2'-2"
12'	57.8fc	2'-7"
14'	42.5fc	3'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	731	83.4
0-40	822	93.8
0-60	865	98.8
0-90	875	100
90-180	0	0
0-180	875	100

Candela Table

Vertical Angles	Candela
0	8324
5	5447
15	759
25	343
35	138
45	34

**Lumen Output Multipliers**  
Color Temperature: 2700K (0.9), 3000K (0.96), 3500K (0.96), 4000K (1.00)