

NIO-4RTLND

4" Iolite Round Trimless Downlight with 10° Optic

Source: 12W
850lm

Type

Project

Catalog No.

Notes

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
NHIOICD-48LE4	ICAT New Construction, 120-277V; Triac / ELV / 0-10V
NHIOICD-48LUPEQ	ICAT New Construction, 120/277V; Lutron EcoSystem
NHIOICDCP-48LE4	Chicago Plenum, 120-277V; Triac / ELV / 0-10V
NHIOICDCP-48LUPEQ	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-4R](#)) or flange accessory ([NIO-4RTFA](#)) is required per trimless.

LABELS AND LISTINGS

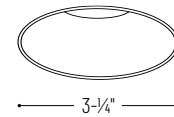
- cULus Listed for Wet Locations
- ENERGY STAR certified
- [5-Year Limited Warranty](#)
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2019



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



CH
Champagne 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

Type	Color Temp.	Finish
NIO-4RTLND = Round Trimless	270 = 2700K	BB = Black
	300 = 3000K	BZ = Bronze
	350 = 3500K	CH = Champagne Haze
	400 = 4000K	HZ = Haze
		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

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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.



		
<p>Translucent Decorative Collar</p>	<p>Opaque Collar Snoot</p>	<p>Hex Cell Louver</p>
<p>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)</p>	<p>NIO-AS14(color) 5/8" length NIO-AS19(color) 3/4" length NIO-AS26(color) 1" length Color: BLK (black), MPW (matte powder white), WH (white)</p>	<p>NIO-HC Black</p> <p>Hex cell louver subtly reduces aperture brightness by reducing light output by about 20%.</p>
<p>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.</p>	<p>Opaque snoot greatly reduces aperture brightness while preserving light output. (Note: Black snoot will reduce light)</p>	

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

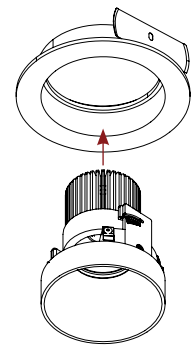
FLANGE ACCESSORY

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

Type _____

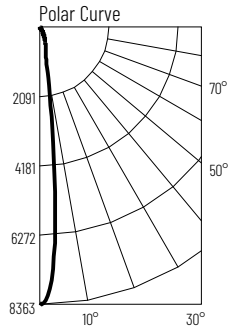
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Test Information

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
16'	32.5fc	3'-6"
18'	25.7fc	3'-11"
20'	20.8fc	4'-4"
22'	17.2fc	4'-10"
24'	14.5fc	5'-2"

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)