

# NIO-4STLNDC

4" Iolite Square 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 8233 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:** Trimless reflectors 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 trimless mud ring is required per trimless ([NIO-TLMR-4S](#)).

## 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 JA8-2022

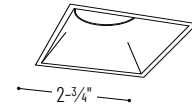


## Performance Data

Part Number	Lumens	CCT	CBCP
<b>NIO-4STLNDC40QWW</b>	864lm	4000K	8233 cd

*Delivered lumens will vary depending on CCT and finish*

## PRODUCT IMAGES AND DIMENSIONS



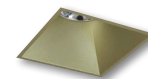
**NIO-4STLNDC**  
Square Trimless Reflector  
Non-Adjustable



**BB**  
Black Reflector



**BZ**  
Bronze Reflector



**CH**  
Champagne Reflector



**HZ**  
Haze Reflector



**MPW**  
Matte Powder White Reflector



**WW**  
White Reflector

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

Type	Color Temperature	Finish
<b>NIO-4STLNDC</b> = Square Trimless	<b>270</b> = 2700K	<b>BB</b> = Black
	<b>300</b> = 3000K	<b>BZ</b> = Bronze
	<b>350</b> = 3500K	<b>CH</b> = Champagne Haze
	<b>400</b> = 4000K	<b>HZ</b> = Haze
		<b>MPW</b> = Matte Powder White
		<b>WW</b> = White

## Compatible Housings

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

## 4" Iolite Trimless Mud Ring

Description
<b>NIO-TLMR-4S</b> = 4" Square Trimless Mud Ring

Example: **NIO-4STLNDC40QWW / NIO-TLMR-4S** = 4" Iolite Square Trimless Non-Adjustable Reflector with 10° Optic, 4000K, White finish / 4" Square Trimless Mud Ring

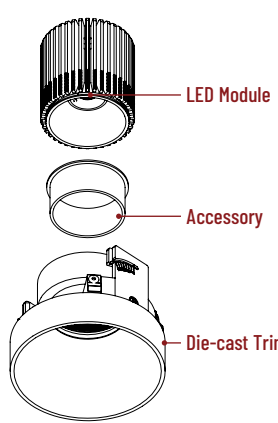
# 4" Iolite Accessories

4" Iolite Square 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.



**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.

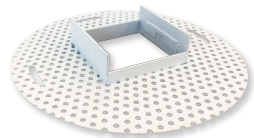
**Hex Cell Louver**

**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-4S**      Square 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-4STLNDC.**  
 Dimensions: 7-7/8" diameter 1/2" thick

## 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 Square Trimless Downlight with 10° Optic

Type \_\_\_\_\_

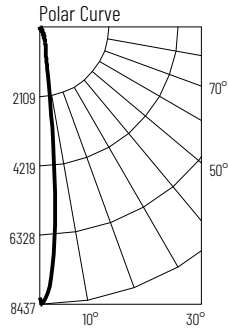
Project \_\_\_\_\_

Catalog No. \_\_\_\_\_

Notes \_\_\_\_\_

### Test Information

Test Number: NTR1897R1  
 Part Number: NIO-4STLNDC40QWW  
 Beam Spread: 12° Spot  
 Lumens: 864lm  
 Wattage: 12.41W  
 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'	229fc	1'-2"
8'	129fc	1'-7"
10'	82.3fc	2'
12'	57.2fc	2'-5"
14'	42fc	2'-11"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	711	2.3
0-40	801	92.6
0-60	852	98.6
0-90	864	100
90-180	0	0
0-180	864	100

### Candela Table

Vertical Angles	Candela
0	8233
5	5129
15	699
25	324
35	133
45	35

### Lumen Output Multipliers

Color Temperature: 2700K (0.9), 3000K (0.96), 3500K (0.96), 4000K (1.00)