# NIO-4RNDC

**4" Iolite Round Reflector with 10° Optic**
**Source: 12W**
**850lm**

Type
Project
Catalog No.
Notes

## PRODUCT DESCRIPTION

4" Iolite luminaires can be specified for use with Iolite new construction or remodel housings. Deep regressed cone reflectors optimize visual cut-off.

## FEATURES

- Delivering up to 8392 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:** Trim includes friction blades to mount securely to housing.

## 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 |
| NHRIOIC-48LE4 | ICAT Remodel, 120-277V; Triac / ELV / 0-10V |

**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

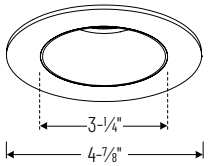
- cULus Listed for Wet Locations
- 5-Year Limited Warranty
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2025

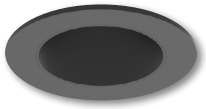
WET · NORA 5 YEAR LIMITED WARRANTY · UL CERTIFIED · TITLE 24 COMPLIANT · RoHS COMPLIANT

| Performance Data | | | |
|---|---|---|---|
| Part Number | Lumens | CCT | CBCP |
| **NIO-4RNDC40QWW** | 884lm | 4000K | 8392 cd |

*Delivered lumens will vary depending on CCT and finish*

## PRODUCT IMAGES & DIMENSIONS



**BB**
Matte Black Reflector
Matte Black Flange



**BMPW**
Matte Black Reflector
Bright White Flange



**BS**
Specular Black Reflector
Specular Black Flange



**BZ**
Bronze Reflector
Bronze Flange



**CHMPW**
Champagne Haze Reflector
Bright White Flange



**CMPW**
Specular Clear Reflector
Bright White Flange



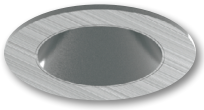
**HW**
Haze Reflector
Warm White Flange



**HZMPW**
Haze Reflector
Bright White Flange



**MPW**
Bright White Reflector
Bright White Flange



**NN**
Natural Metal Reflector
Natural Metal Flange



**WD**
Wheat Diffused Reflector
Wheat Diffused Flange



**WW**
Warm White Reflector
Warm White Flange

## 4" Iolite Round Reflector with 10° Optic - Dedicated Housing Required

| Color Temperature | Reflector Finish / Flange Finish |
|---|---|
| **NIO-4RNDC27Q** = 2700K | **BB** = Matte Black Reflector / Matte Black Flange |
| **NIO-4RNDC30Q** = 3000K | **BMPW** = Matte Black Reflector / Bright White Flange |
| **NIO-4RNDC35Q** = 3500K | **BS** = Specular Black Reflector / Specular Black Flange |
| **NIO-4RNDC40Q** = 4000K | **BZ** = Bronze Reflector / Bronze Flange |
| | **CHMPW** = Champagne Haze Reflector / Bright White Flange |
| | **CMPW** = Specular Clear Reflector / Bright White Flange |
| | **HW** = Haze Reflector / Warm White Flange |
| | **HZMPW** = Haze Reflector / Bright White Flange |
| | **MPW** = Bright White Reflector / Bright White Flange |
| | **NN** = Natural Metal Reflector / Natural Metal Flange |
| | **WD** = Wheat Diffused Reflector / Wheat Diffused Flange |
| | **WW** = Warm White Reflector / Warm White Flange |

Example: **NIO-4RNDC27QMPW** = 4" Iolite Round Reflector with 10° Optic, 2700K, Bright White Reflector / Bright White Flange

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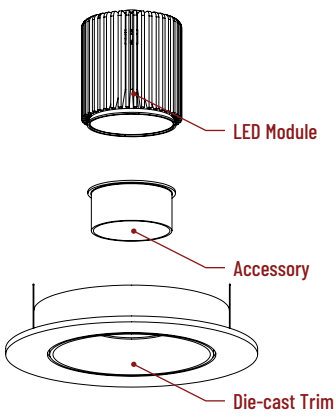
# 4" Iolite Accessories

## 4" Iolite Round Reflector with 10° Optic

| | |
|---|---|
| **Type** | |
| **Project** | |
| **Catalog No.** | |
| **Notes** | |

### 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)** | ⅝" length |
| **NIO-AS19(color)** | ¾" 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-AS14WH** | ⅝" length / warm white finish |
| **NIO-AS19MPW** | ¾" length / bright white finish |
| **NIO-AS19WH** | ¾" length / warm white finish |

Opaque snoot greatly reduces aperture brightness while preserving light output.



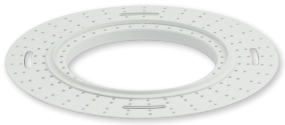
### Hex Cell Louver

| | |
|---|---|
| **NIO-HC** | Black |

Hex cell louver subtly reduces aperture brightness by reducing light output by about 50%.

### FLUSH MOUNT

4" Iolite 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 trim 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: 7-⅞" diameter ½" thick

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# PHOTOMETRICS

## 4" Iolite Round Reflector with 10° Optic

**Type**

**Project**

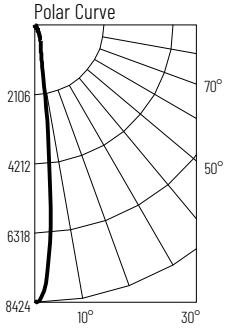
**Catalog No.**

**Notes**

**Test Information**

Test Number: NTR1888R2
Part Number: NIO-4RNDC40QWW
Beam Spread: 12° Spot
Lumens: 884lm
Wattage: 12.42W
Efficacy: 71lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.22
Spacing Criteria (90°-270°): 0.22

Polar Curve




Illuminance at a Distance

| Distance from Luminaire | FC at Nadir | Beam Diameter |
|---|---|---|
| 6' | 233fc | 1'-4" |
| 8' | 131fc | 1'-10" |
| 10' | 83.9fc | 2'-2" |
| 12' | 58.3fc | 2'-7" |
| 14' | 42.8fc | 3'-1" |

Zonal Lumen Summary

| Zone | Lumens | % Luminaire |
|---|---|---|
| 0-30 | 741 | 83.8 |
| 0-40 | 833 | 94.1 |
| 0-60 | 874 | 98.8 |
| 0-90 | 884 | 100 |
| 90-180 | 0 | 0 |
| 0-180 | 884 | 100 |

Candela Table

| Vertical Angles | Candela |
|---|---|
| 0 | 8392 |
| 5 | 5543 |
| 15 | 735 |
| 25 | 336 |
| 35 | 140 |
| 45 | 36 |

**Lumen Output Multipliers**

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

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