

NIO-4SND SQ
4" Iolite Square Reflector with Square Aperture with 10° Optic
Source: 12W
850lm

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

- FEATURES
· Delivering up to 8674 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.
Table with 2 columns: CATALOG NO., DESCRIPTION

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 JA8-2022

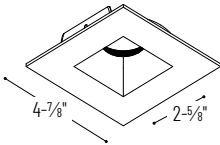


Table with 1 column and 4 rows: Type, Project, Catalog No., Notes

Performance Data table with 4 columns: Part Number, Lumens, CCT, CBCP

Delivered lumens will vary depending on CCT and finish

PRODUCT IMAGES & DIMENSIONS



NIO-4SND SQ
Square Reflector with Square Aperture
Non-Adjustable



4" Iolite Square Reflector with Square Aperture with 10° Optic - Dedicated Housing Required

Table with 2 columns: Color Temperature, Finish

Compatible Housings

Table with 1 column: Housing Type

Example: NIO-4SND SQ270WW = 4" Iolite Square Reflector with Square Aperture with 10° Optic, 2700K, White finish

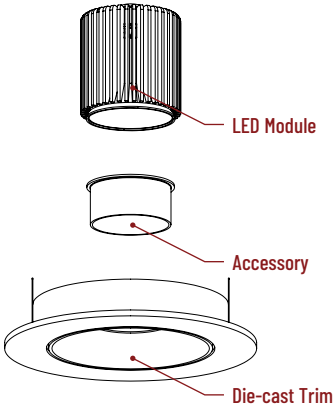
4" Iolite Accessories


4" Iolite Square Reflector with Square Aperture 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)	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%.

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-4S Square Mud Ring

Mounts trim flush to ceiling with flange visible. Mud ring attaches to drywall. **Only for use with NH10ICD-48 or NH10ICDCP-48 new construction housings and NIO-4S trims.**  
Dimensions: 7-7/8" diameter 1/2" thick

PHOTOMETRICS

4" Iolite Square Reflector with Square Aperture with 10° Optic

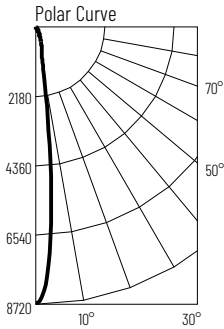
Type

Project

Catalog No.

Notes

**Test Information**  
Test Number: NTR1896R1  
Part Number: NIO-4SNSQ40QWW  
Beam Spread: 12° Spot  
Lumens: 895lm  
Wattage: 12.41W  
Efficacy: 72lpw  
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'	241fc	1'-4"
8'	136fc	1'-8"
10'	86.7fc	2'-2"
12'	60.2fc	2'-7"
14'	44.3fc	3'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	744	83.1
0-40	833	93
0-60	882	98.5
0-90	895	100
90-180	0	0
0-180	895	100

Candela Table

Vertical Angles	Candela
0	8674
5	5668
15	752
25	323
35	129
45	30

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