

NIOB-2SG

2" Iolite Square Adjustable Gimbal with 10° Optic

Source: 12W
850lm

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

2" Iolite trims can be specified for use with Iolite new construction or remodel housings. Die-cast adjustable surface gimbals adjust to aim the light source in desired direction.

FEATURES

- Delivering up to 8573 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 trim and transfer heat.

Mounting: Luminaire 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-28LE4	ICAT New Construction, 120-277V; Triac / ELV / 0-10V
NHIOICD-28LUPEQ	ICAT New Construction, 120/277V; Lutron EcoSystem
NHIOICDCP-28LE4	Chicago Plenum, 120-277V; Triac / ELV / 0-10V
NHIOICDCP-28LUPEQ	Chicago Plenum, 120/277V; Lutron EcoSystem
NHRIOIC-28LE4	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 housings only.

LABELS AND LISTINGS

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

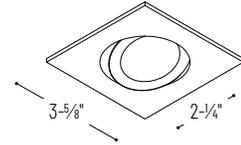


Performance Data

Part Number	Lumens	CCT	CBCP
NIOB-2SG40QWW	885lm	4000K	8573 cd

Delivered lumens will vary depending on CCT and finish

PRODUCT IMAGES & DIMENSIONS



NIOB-2SG

Square Adjustable Surface Gimbal
Adjustability:
New Construction: 30° / Remodel: 15°



BB
Black



BZ
Bronze



MPW
Matte Powder White



NN
Natural Metal



WW
White

2" Iolite Square Adjustable Gimbal with 10° Optic - Dedicated Housing Required

Type	Color Temperature	Finish
NIOB-2SG = Square Adjustable Gimbal	270 = 2700K	BB = Black
	300 = 3000K	BZ = Bronze
	350 = 3500K	MPW = Matte Powder White
	400 = 4000K	NN = Natural Metal
		WW = White

Compatible Housings

Housing Type
NHIOICD-28LE4 = ICAT New Construction; Triac / ELV / 0-10V
NHIOICD-28LUPEQ = ICAT New Construction; Lutron EcoSystem
NHIOICDCP-28LE4 = Chicago Plenum; Triac / ELV / 0-10V
NHIOICDCP-28LUPEQ = Chicago Plenum; Lutron EcoSystem
NHRIOIC-28LE4 = ICAT Remodel; Triac / ELV / 0-10V

Example: **NIOB-2SG40QWW** = 2" Iolite Square Adjustable Gimbal with 10° Optic, 4000K, White finish

2" Iolite Accessories

2" Iolite Square Adjustable Gimbal with 10° Optic

Type

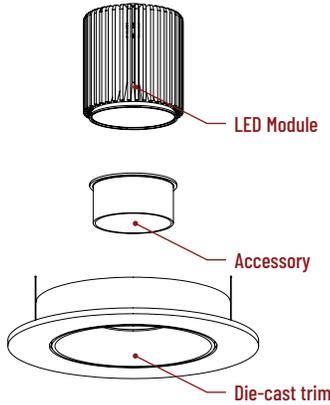
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ACCESSORIES

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%.

FLUSH MOUNT

2" 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-2R Round Mud Ring

Mounts trim flush to ceiling with flange visible.
Mud ring attaches to drywall. Only for use with NH10ICD-28 or NH10ICDCP-28 new construction housings and NIOB-2R trims.
 Dimensions: 7-7/8" diameter 1/2" thick

PHOTOMETRICS

2" Iolite Square Adjustable Gimbal with 10° Optic

Type _____

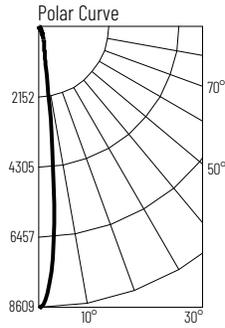
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Test Information

Test Number: NTR1904R1
 Part Number: NI0B-2SG40QWW
 Beam Spread: 12° Spot
 Lumens: 885lm
 Wattage: 12.38W
 Efficacy: 71lpw
 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
8'	134fc	1'-8"
10'	85.7fc	2'-1"
12'	59.5fc	2'-6"
14'	43.7fc	2'-11"
16'	33.5fc	3'-4"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	703	79.5
0-40	781	88.3
0-60	851	96.2
0-90	885	100
90-180	0	0
0-180	885	100

Candela Table

Vertical Angles	Candela
0	8573
5	5323
15	718
25	310
35	119
45	50

Lumen Output Multipliers

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