

Type Project

Catalog No.

Lamp/Wattage

NHRIOIC-48

4" Iolite IC Air-Tight Remodel Housing

Source: 14W LED

800lm

PRODUCT DESCRIPTION

Remodel housing for use in insulated ceilings; can be in direct contact with insulation**. Air-tight construction provides energy savings by reducing the flow of air through the ceiling.

FEATURES

- IC rated for direct contact with insulation**
- Quick connect provided for electrical connection to the LED reflector
- · ASTM E283 for Air-Tight
- · Dimming down to 5%

SPECIFICATION

Housing 0.030 steel can connects to integrated 0.040 steel structural arm with J-box and driver compartment. Integral spring brackets provided.

Air Flow Restriction Housing has factory installed gaskets to restrict airflow from room into ceiling plenum to <2CFM (cubic feet per minute) in accordance with ASTM-283 Air-Tight requirements.

Clearance:** "IC" Insulated ceiling housings are direct contact rated. Not to be used in direct contact with spray foam insulation.

Mounting Four high-tension tempered steel springs secure remodel housing from 1/4" (min) to 5/8" (max) thick ceiling. Hole cutout template provided for convenience.

Junction Box Pre-wired 25 cubic inch 0.064" thick galvanized steel, with five 1/2", two 3/4" knockouts, four Romex® pryouts, and snap-on covers. All leads are #18AWG wire, the ground wire is connected to the bottom, and quick connectors are supplied on all leads. Through branch circuit wiring, (4-in, 4-out).

ELECTRICAL

Voltage: 120V or 120-277V **Power Factor:** >0.90

Operating Temp.: 104°F (40°C) max. ambient temp.

Wattage: 14W

Dimming: Triac / ELV or 0-10V Dimming **Click Here** or check complete dimmer list at www.

NoraLighting.com in the "Compatibility" page under "Resources" tab

COMPATIBLE TRIMS

CATALOG NO. DESCRIPTION

NIO-4RC	4" Round Cone Regress
NIO-4SC	4" Square Cone Regress
NIO-4RG	4" Round Adj. Surface Gimbal
NIO-4SG	4" Square Adj. Surface Gimbal
NIO-4RD	4" Round Adj. Deep Regress
NIO-4SD	4" Square Adj. Deep Regress
NIO-4RPH	4" Round Pinhole
NIO-4RSL	4" Round Slot Aperture
NIO-4RNB	4" Round Bullnose
NIO-4SNB	4" Square Bullnose
NIO-4RNDC	4" Round Non-Adj. Deep Cone Regress
NIO-4SNDC	4" Square Non-Adj. Deep Cone Regress
NIO-4SNDSQ	4" Square Non-Adj. Deep, Square Regress

LISTINGS AND WARRANTY

- · cULus Listed for Damp Location
- · cULus Listed for Wet Location (w/designated reflectors)
- · 5-Year Limited Warranty
- · RoHS compliant
- · Meets or exceeds ASTM-283 Air-Tight Requirements

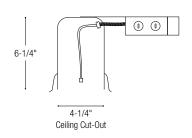


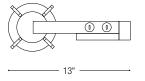




PRODUCT IMAGES AND DIMENSIONS







4" Iolite IC Air-Tight Remodel Housing - Compatible with NIO-4 reflectors

Driver / Dimming

NHRIOIC-48LE3 = 120 V input; Triac / ELV dimming

NHRIOIC-48LE4 = 120-277V input; 120V Triac/ELV/0-10V or 277V 0-10V dimming

Example: NHRIOIC-48LE4 = 4" lolite IC Air-Tight Remodel Housing, 120-277V Input; 120V Triac/ELV/0-10V or 277V 0-10V dimming





ILLUMINATING THE FUTURE...SINCE 1989

Type

Project

Catalog No. Lamp/Wattage

NIO-4 4" Iolite Reflectors (New Construction and Remodel)

Source: 14W LED

PRODUCT DESCRIPTION

4" lolite reflectors can be specified for use in new construction or remodel applications. The die-cast aluminum reflectors are available in square and round designs, with sharp and clean edges. Reflectors ship with a 60° optic installed, 25° and 38° optics are included and can be easily changed in the field. The reflectors produce 800lm output at 90+ CRI, utilizing 14W.

FEATURES

- Cree[®] LED COB or Comfort Dim Technology
- Wide variety of reflectors and finishes
- 60° (Flood) optic installed, 38° (Narrow flood) and 25° (Spot) optics included
- 5-Year limited warranty

CONSTRUCTION

Reflectors are constructed of heat dissipating, die-cast aluminum. The aluminum die-cast LED heat sink is threaded to fit the trim and transfer heat.

Reflectors:

NIO-4RNDC / NIO-4SNDC / NIO-4SNDSQ: Deep regressed cone reflectors optimize visual cut-off. NIO-4RG / NIO-4SG: Adjustable surface gimbals adjusts up to 40°. NIO-4SG adjust up to 35°.

NIO-4RC / NIO-4SC: Regressed cone reflectors optimize visual cut-off and adjust up to 40°. NIO-4SC adjust up

NIO-4RD / NIO-4SD: Adjustable deep regressed cone reflectors optimize visual cut-off and adjusts up to 40°. NIO-4SD adjust up to 35°.

NIO-4RPH: Pinhole reflector focuses the beam spread through 2-1/4" opening.

NIO-4RSL: Adjustable slot aperture focus the beam spread through 2-1/4" x 2" opening and adjust up to 15°.

Mounting: Reflector includes friction blades to mount securely to housing.

Field Changeable Optics: Each reflector comes with a 60° (installed), 38° and 25° optics (included). Premium TIR optics are also available in 15° or 25°, see page 3.

ELECTRICAL

Lumens / Wattage: 800lm / 14W

Color Temperature:

2700K, 3000K, 3500K, 4000K, 5000K

CRI: 90+

Operating Temp.: 0°C to 40°C ambient temperature Comfort Dim: Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 2000K on a gradual, even curve. Available in 800lm only.

Dimming: Specified by housing

COMPATIBLE HOUSINGS

Reflectors are compatible with respective lolite housings manufactured by Nora Lighting.

DESCRIPTION CATALOG NO.

NHIOICD-48 4" IC Air-Tight New Construction NHRIOIC-48 4" IC Air-Tight Remodel

Accessories: Reflectors will accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see page 3.

LISTINGS AND WARRANTY

- cUL us Listed for Wet Location (NIO-4RD and NIO-4SD are rated for damp location)
- ENERGY STAR® certified
- 5 Year Limited Warranty
- RoHS Compliant
- Can be used to comply with 2016 Title 24 part 6 High Efficacy LED light source requirements















PRODUCT IMAGES AND DIMENSIONS



NIO-4RG Round Surface 40° Adjustable BB, BZ, MPW, NN, WW



800lm

NIO-4SG Square Surface 35° Adjustable BW, BZ, MPW, NN, WW



NIO-4RC Round 0.64" Reg. Cone 40° Adjustable BB, BW, BZ, HW, MPW, NN, WW



NIO-4SC Square 0.64" Reg. Cone 35° Adjustable BB, BW, BZ, HW, MPW, NN, WW



NIO-4RD Round Deep Cone (2" Regressed) 40° Adjustable

BB, BW, BZ, HW, MPW, NN, WW



NIO-4SD Square Deep Cone (2" Regressed) 35° Adjustable BB, BZ, MPW, NN, WW



NIO-4RNDC Round Deep Regressed Cone Non-Adjustable BB, BW, BZ, HW, MPW, NN, WW



Regressed Cone Non-Adjustable BB, BW, BZ, HW, MPW, NN, WW



NIO-4RPH Round Non-Adj. Pinhole

Non Adjustable BB, BMPW, HZMPW, MPWMPW



NIO-4SNDSQ Square Deep Cone, Square Regressed

Non Adjustable BB, BW, BZ, HN, HW, MPW, WW



NIO-4RSL Round Adj. Slot Aperture 15° Adjustable BB, BMPW, HZMPW, MPWMPW



NIO-4RNB Round Bullnose Non-Adjustable BB, BZ, MPW, NN, WW



NIO-4SNB Square Bullnose Non-Adjustable BZ, MPW, NN, WW

4" Iolite Reflectors - Dedicated Housing Required

Shape	Reflector Style	Color Temp.	Finish ¹	Lumens
NIO-4R = Round	C = Cone Regress	27X = 2700K	BB = Black / Black	(blank) = 800lm
NIO-4S = Square	G = Adj. Surface Gimbal	30X = 3000K	BW = Black / White	
	D = Adj. Deep Cone Regress	35X = 3500K	BZ = Bronze / Bronze	
	NDC = Non-Adj. Deep	40X = 4000K	HN = Haze / Natural Metal	
	Cone Regress	50X = 5000K	HW = Haze / White	
	NDSQ = Deep Cone Non-Adj.	CDX = Comfort Dim [†]	HZMPW = Haze / Matte Powder White	
	Square Regress		MPW = Matte Powder White	
	NDSQ only available with square trim		NN= Natural Metal / Natural Metal	
	PH = Non-Adj. Pinhole (round only)		WW = White / White	
	SL = Slot Adjustable (round only)			
	NB = Non-Adi, Bullnose			

[†] Comfort Dim technology uses non-Cree COB modules. 1" & 2" lolite uses a different dimming curve than 4" Comfort Dim

Example: NIO-4RG27XWW = 4" lolite Round Adjustable Surface Gimbal, 2700K, White Finish, 800lm

¹ Not all finishes are available on all trims



Type

Project

Catalog No.

Lamp/Wattage

4" Iolite Accessories

lolite Accessories can be added at any point in the design process. Accessories easily install between module and die-cast reflector.



Frosted Filter-Optic

NIO-REFL15FR 15° Optic NIO-REFL25FR 25° Optic NIO-REFL38FR 38° Optic NIO-REFL60FR 60° Optic



Translucent Deco Collar

NIO-AS14(color) 5/8" NIO-AS19(color) 3/4" 1" NIO-AS24(color)

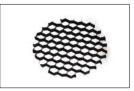
Color: BLU Blue, AM Amber, FR Frost, R Red



Opaque Collar Snoot

NIO-AS14(color) 5/8" NIO-AS19(color) 3/4" NIO-AS24(color)

Color: BLK Black, MPW Matte Powder White, WH White



Hex Cell Louver

NIO-HC

Hex cell louver subtly reduces aperture brightness by reducing light output by about 20%



Premium TIR Optics

NIO-REFLTIR15 15° Optic NIO-REFLTIR25 25° Optic



Type

Project

Catalog No.

Lamp/Wattage

PHOTOMETRICS

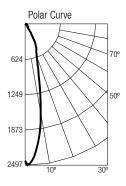
4" Iolite Series

Test Information

Test Number: NTR11248
Part Number: NIO-4RG3025WW
Beam Spread: Spot

Lumens: 939lm Wattage: 14.4W Efficacy: 65lpw

CCT / CRI: 3000K / 90 CRI Spacing Criteria (0°-180): 0.42 Spacing Criteria (90°-270): 0.42



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	156fc	1'-10"
6'	69.4fc	2'-7"
8'	39fc	3'-6"
10'	25fc	4'-5"
12'	17.3fc	5'-4"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	667	71
0-40	761	81
0-60	861	91.7
0-90	936	99.7
90-180	3	0.3
0-180	939	100

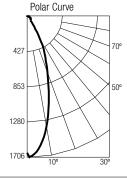
Candela Table

Carracia rabio		
Vertical Angles	Candela	
0	2497	
5	2255	
15	905	
25	466	
35	129	
45	68	

Test Information

Test Number: NTR11249 Part Number: NIO-4RG3038WW Beam Spread: Narrow Flood Lumens: 929Im Wattage: 14.6W Efficacy: 64lpw

CCT / CRI: 3000K / 90 CRI Spacing Criteria (0°-180): 0.58 Spacing Criteria (90°-270): 0.58



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	106fc	2'-6"
6'	47.1fc	3'-10"
8'	26.5fc	5'
10'	17fc	6'-4"
12'	11.8fc	7'-6"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	652	70.2
0-40	747	80.4
0-60	848	91.3
0-90	926	99.7
90-180	3	0.3
0-180	929	100

Candela Table

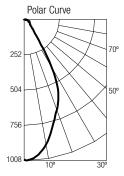
Vertical Angles	Candela	
0	1697	
5	1602	
15	1013	
25	495	
35	126	
45	68	

Test Information

Test Number: NTR11250 Part Number: NIO-4RG3060WW Beam Spread: Flood

Lumens: 927lm Wattage: 14.5W Efficacy: 64lpw

CCT / CRI: 3000K / 90 CRI Spacing Criteria (0°-180): 0.86 Spacing Criteria (90°-270): 0.86



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	62.7fc	4'-2"
6'	27.9fc	6'-5"
8'	15.7fc	8'-6"
10'	10fc	10'-7"
12'	7fc	12'-8"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	583	62.9
0-40	726	78.3
0-60	841	90.7
0-90	924	99.7
90-180	3	0.3
0-180	927	100

Candela Table

_			
	Vertical Angles	Candela	
	0	1003	
	5	979	
	15	802	
	25	594	
	35	212	
	45	80	