

NORA | *NSPEC*
LIGHTING®



IOLITE

1", 2" AND 4" LED DOWNLIGHTS



IOLITE SERIES

SMALL APERTURE DOWNLIGHTING

Iolite Series offers hundreds of design possibilities for any project and specification. Family consists of 1", 2" and 4" die-cast reflectors, that produce up to 1000 lumen light output and a variety of kelvin temperatures.

Reflector options include round or square apertures, adjustable, multiple finishes, trimless or flush mount. Series' functionality and versatility allows each downlight to meet the design criteria's needs. Each reflector ships with three field changeable optics (spot, narrow flood and flood) to direct the beam of light when needed. 2" and 4" reflectors offer a clean knife edge appearance with trimless mounting or flush mount options.

Entire family is available with dedicated new construction or remodel housings, and 4" series is also available in retrofit for use in existing housings. 1" and 2" remodel housings feature a flat frame option for access to the junction box from below the ceiling.

PERFORMANCE

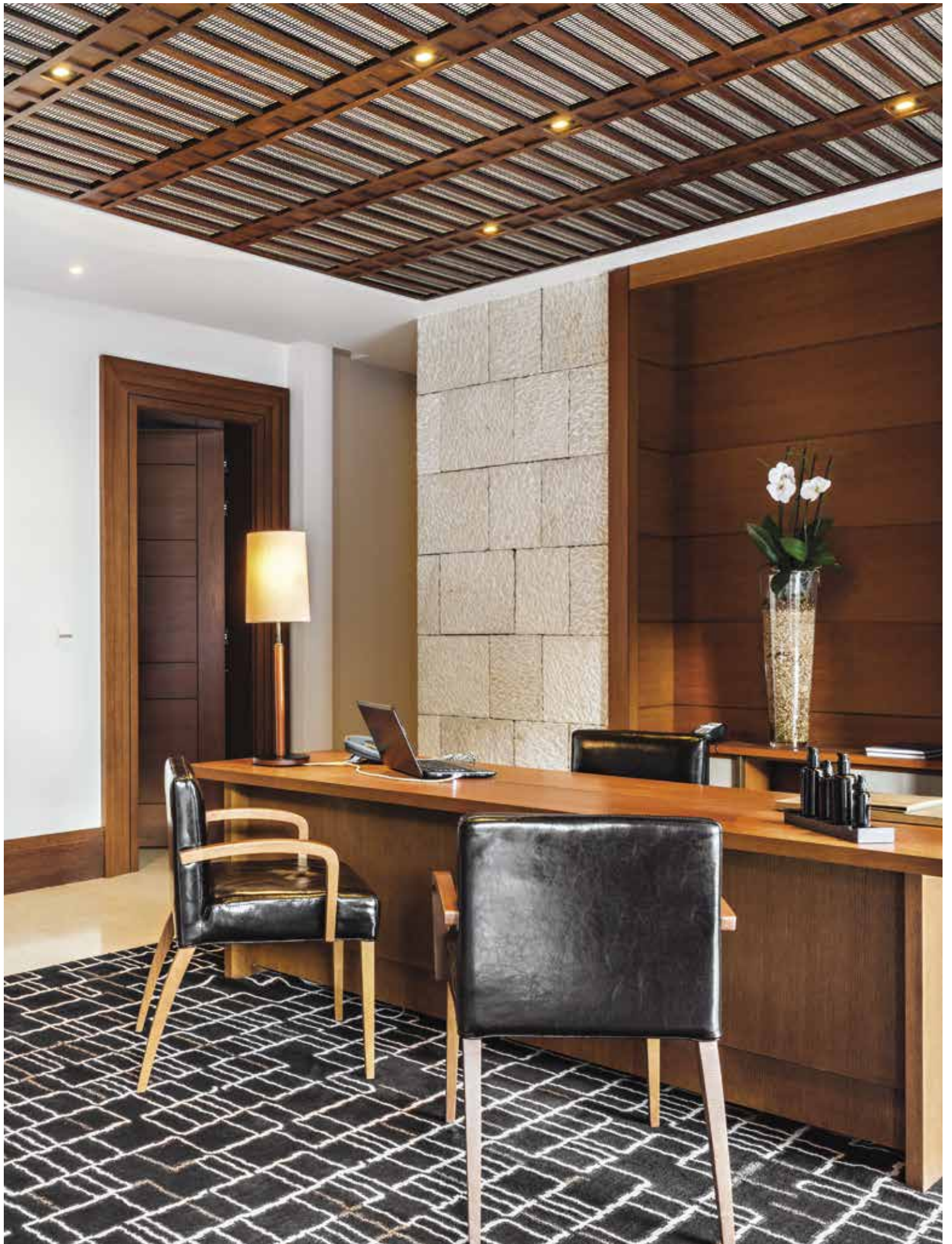
- 1" reflectors produce up to 600 lumens
- 2" and 4" reflectors produce up to 800 or 1000 lumens
- 2700K, 3000K, 3500K, 4000K, 5000K or Comfort Dim technology @ 90+ CRI

VERSATILITY

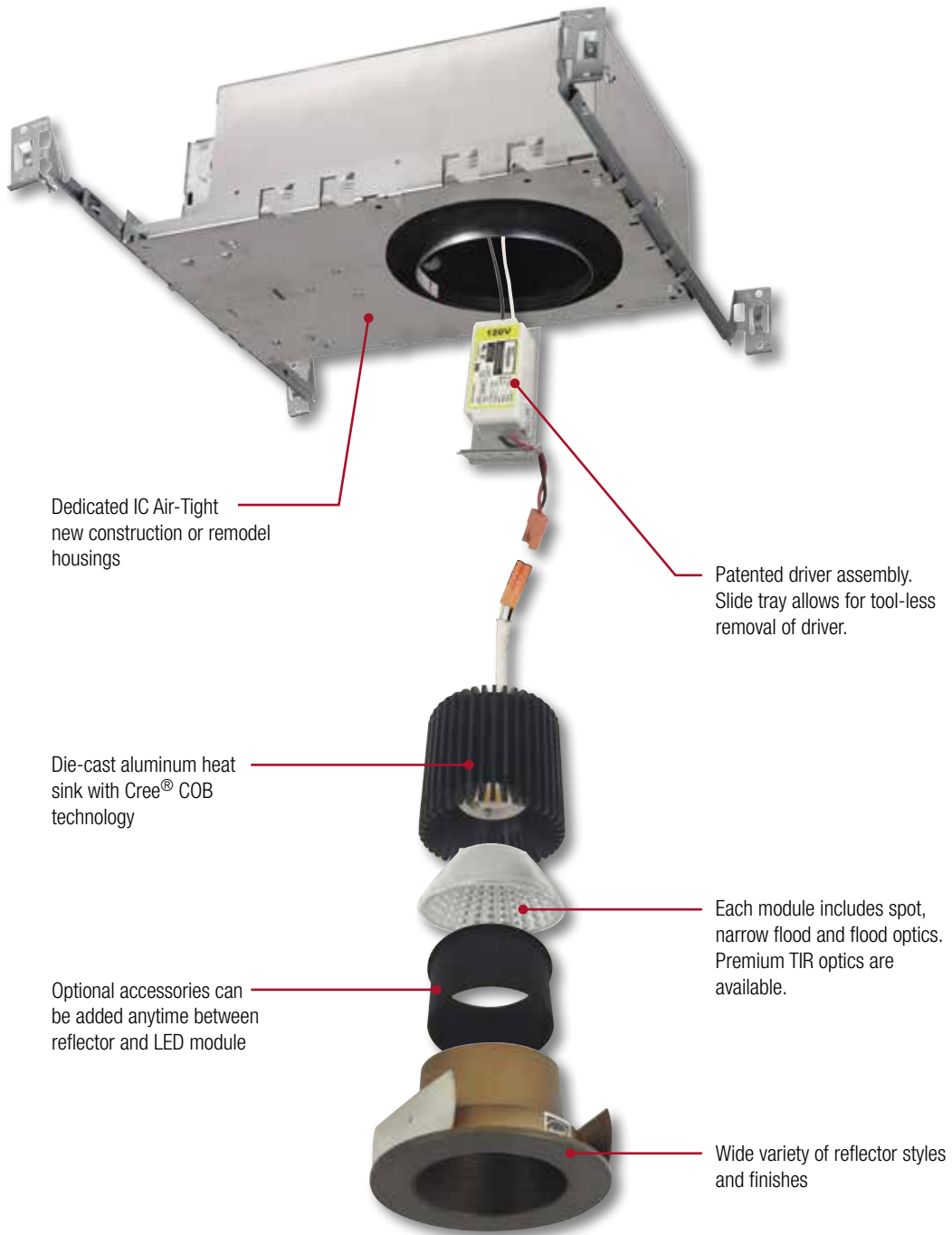
- Eight different reflector styles
- Round or Square apertures
- Over ten finishes
- Each reflector includes three optics (spot, narrow flood and flood)
- Variety of decorative collars, snoots and louvers
- Three mounting styles (standard flange, trimless or flush mount)

INNOVATION

Recognizing the challenge of accessing the driver on a unit with a small aperture, Nora designed a dedicated patented housing for the Iolite. The IC air-tight new construction housing contains a sliding mechanism that allows the user to access the driver by pulling on a tab, a patented design allowing for easy maintenance or upgrading for life.



IOLITE SYSTEM



Reflector Finishes



BB - Black / Black



BW - Black / White



BZ - Bronze / Bronze



HW - Haze / White



MPW - Matte Powder White



NN - Natural Metal



WW - White / White

FIXTURES SHOWN ACTUAL SIZE

COB technology module features die-cast aluminum heat dissipating fins. The module's fine threads screw into the die-cast aluminum reflector.

Reflectors are constructed of die-cast aluminum and available in a variety of finishes. The COB optics are deep set for low aperture brightness and each reflector includes three field-changeable optics for spot, narrow flood or flood beam spreads.

DIRECTED LIGHT

The Iolite is designed with dedicated optics offered in flood, narrow flood and spot patterns. The optics, included with each reflector, can easily be selected and installed during final installation, no tools required. The specially designed optics produce more usable light, ultimately reducing the amount of wattage required to light a space or highlight an object. Many other LED downlights waste light production and have to use higher wattage fixtures to produce the same desired effects that the Iolite luminaires produce with less wattage.

1" IOLITE

2" IOLITE

THREE FINISHING OPTIONS



4" IOLITE TRIMLESS

TRIMLESS

Often referred to as flange-less, the Trimless option is considered the premium finishing technique. The trimless effect requires the installation of the trimless mud ring after the drywall is installed. A professional drywall finisher floats the ceiling to blend in the mud ring, sands and paints. The reflector is then inserted into the ring and the result is a spectacular, minimalist appearance with no flange.

FLUSH MOUNT

The Flush Mount option requires the installation of the flush mount mud ring after the drywall is installed. A professional drywall finisher floats the ceiling to blend in the mud ring. An electrician then installs the Iolite reflector with the flange exposed but even with the ceiling plane for a beautiful seamless appearance.



4" IOLITE FLUSH MOUNT

FLANGED OR TRIM

A standard finishing technique, the Flanged or Trim option requires the least labor and offers the largest selection of trims. The Iolite flange is extremely thin, extending off the ceiling ever so slightly, approximately 1/16".



4" IOLITE TRIM



3100K

2500K

2000K

LED Dimming Two Choices

WHITE LIGHT DIMMING AND COMFORT DIM

Sapphire, Marquise, lolite and Cobalt Click Series offer both white light dimming and Comfort Dim technology.

WHITE LIGHT DIMMING (STANDARD)

Consistent color across dimming range keeps colors natural and consistent

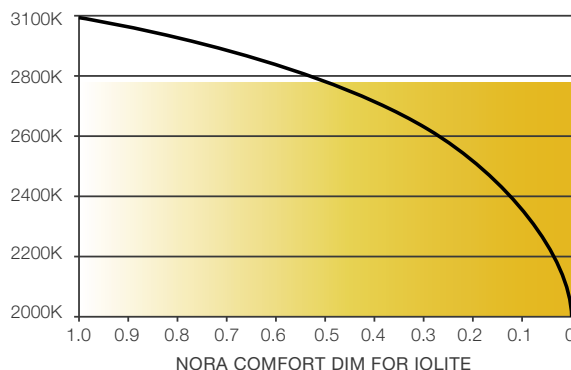
Unlike incandescent dimming, most LED dimming does not change in color as power decreases but remains close to the original kelvin temperature of the source. This is called White Light Dimming. White Light dimming is also found with fluorescent dimming, and has become accepted in most commercial, architectural and residential applications primarily because there were not other energy efficient solutions that would warm the light as it was dimmed.



COMFORT DIM (OPTIONAL)

Warm, rich light dimming creates an intimate atmosphere

An innovation in energy efficient dimming, Comfort Dim presented by Nora, warms the light as power is reduced. Comfort Dim color tunes the temperature from a bright color to a warm and romantic incandescent feel. The Sapphire and Marquise Series goes from 2700K to 1800K, lolite Series goes from 3100K to 2000K and Cobalt Series goes from 3100K to 1700K. The warm dim Comfort Dim is the perfect solution for restaurants, cineplex, home theaters, multi-purpose event venues and other applications where the temperature and comfort of the light sets the mood.



* Comfort Dim uses premium non-Cree COB. 1" and 2 1/4" Comfort Dim dim on a different curve. Do not put 1" CD and 2 1/4" CD on the same switch leg (dimmer).

IOLITE SERIES COMMERCIAL AND RESIDENTIAL

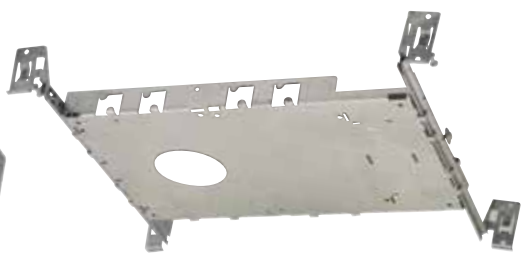
1" HOUSINGS 600LM



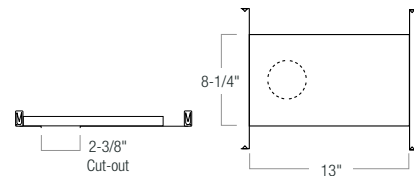
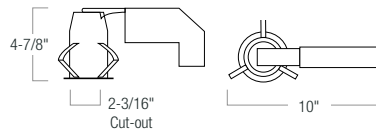
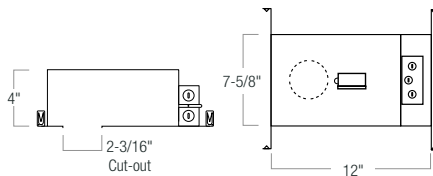
NHIOICD-16
1" Iolite New Construction Housing



NHRIOIC-16
1" Iolite Remodel Housing



NHIOFK-1
1" Iolite Frame-In for Remodel Housing
Allows access to junction box from below the ceiling.



1" IOLITE HOUSING

HOUSING TYPE / WATTAGE	DRIVER / DIMMING	EMERGENCY
NHIOICD-16 1" IC Air-Tight New Construction, 600lm / 11W	LE3 120V input; Triac / ELV Dimming LE4 120-277V input; Triac / ELV / 0-10V Dimming	EM Wire for emergency battery (order separately)
NHRIOIC-16 1" IC Air-Tight Remodel, 600lm / 11W	LE4 120-277V input; Triac / ELV / 0-10V Dimming	
NHIOFK-1 New Construction Frame-In for 1" Iolite Remodel Housing - Allows access to junction box from below the ceiling.		

*Example: **NHIOICD-16LE3** - 1" New Construction Housing, 600lm / 11W, 120V input; Triac/ELV dimming*

Iolite 1" dedicated LED downlights are available in square and round trims. The Iolite modular system allows users to field change both the trim and beam spread without the use of tools. 20°, 40° and 60° reflectors are included with each module. The 11W Iolite LED module produces 600 lumens at 90+ CRI in various kelvin temperatures.

ELECTRICAL:

Voltage: 120V or 120-277V

Lumens / Wattage: 600lm / 11W

Color Rendering Index: 90+ CRI

Color Temperature: 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim (3100K-2000K)

LED: Cree® COB (2700K-5000K), premium non-Cree COB (Comfort Dim)

Dimming: Triac, ELV or 0-10V

COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 2000K on a gradual, even curve.

CONSTRUCTION:

New Construction Housing: Shallow aluminum Air-Tight housing meets air-tight requirements. IC rated for direct contact with thermal insulation. Features patented design with driver mounted to slide out tray. Disconnects are furnished for the line voltage connection as well as the module connection. Access above ceiling is required.

Remodel Housing: Steel housing connects to pivoting arm with junction box and driver compartment. IC rated for direct contact with thermal insulation. New construction flat frame available to allow access to junction box from below the ceiling.

Reflector/Module: Die-cast aluminum reflectors are threaded to mount LED module securely and dissipate heat away from light source. Three field-changeable optics are included with each luminaire: spot, narrow flood and flood (installed).

EMERGENCY: New construction housing is wired with connections for emergency battery installation. Requires top access. NEPK-BSL17C-C2U - battery with remote test switch.

INSTALLATION:

New Construction: Bar hangers are adjustable from 13-3/4" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installation. **Remodel:** Three high-tension tempered steel springs secure remodel housing to ceiling.

LISTING & WARRANTY:

- cULus Listed for Wet Location
- ENERGY STAR certified
- Can be used to comply with 2016 Title 24 - part 6 High Efficacy LED light source requirements
- ROHS compliant
- 5 Year Limited Warranty



COMMERCIAL AND RESIDENTIAL IOLITE SERIES

600LM 1" BWF REFLECTORS

NEW CONSTRUCTION OR REMODEL HOUSING REQUIRED



NIOB-1RNB
1" Round Bullnose Regress
Non-Adjustable
BB, BZ, MPW, NN, WW



NIOB-1SNB
1" Square Bullnose Regress
Non-Adjustable
BZ, MPW, NN, WW



NIOB-1RNG
1" Round Straight Regress
Non-Adjustable
BW, BZ, HW, MPW, NN, WW



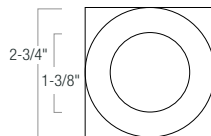
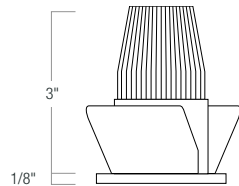
NIOB-1SNG
1" Square Straight Regress
Non-Adjustable
BW, BZ, HW, MPW, NN, WW



NIOB-1RPH
1" Round Pinhole
Non-Adjustable
BB, BMPW, HZMPW, MPW



NIOB-1RSL
1" Round Slot Aperture
30° Adjustable - New Const.
15° Adjustable - Remodel
BB, BMPW, HZMPW, MPW



The 1" Iolite BWF series trims can be specified **for use with 1" Iolite new construction or remodel housings**. The 1" BWF trims feature a slightly larger flange design than the 1" NTF Series.

1" IOLITE BWF REFLECTORS REQUIRES NHIOICD-16 OR NHRIOIC-16 HOUSING

SERIES / SHAPE	REFLECTOR TYPE	COLOR TEMP	FINISH	LUMENS / WATTAGE
NIOB-1R 1" Round BWF NIOB-1S 1" Square BWF	NB Bullnose Regress NG Straight Regress PH Non-Adj. Pinhole <i>(round trim only)</i> SL Adj. Slot Aperture <i>(round trim only)</i>	27X 2700K 30X 3000K 35X 3500K 40X 4000K 50X 5000K CDX Comfort Dim*	BB Black / Black BMPW Black / Matte Powder White BW Black / White BZ Bronze / Bronze HW Haze / White HZMPW Haze / Matte Powder White MPW Matte Powder White NN Natural Metal WW White / White <i>Not all finishes available on all trims.</i>	(blank) 600lm / 11W

* Comfort Dim uses premium non-Cree COB. 1" Iolite uses a different dimming curve than 2" and 4" Comfort Dim.

Example: **NIOB-1RNB27XNBZ** - 1" Round BWF Bullnose Reflector, 2700K, Bronze Reflector / Bronze Flange

ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between module and die-cast trim. See page 23 for full details.



Ceiling Extension Collar



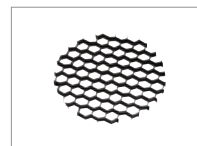
Frosted Filter-Reflector



Translucent Deco Collar



Opaque Collar Snoot



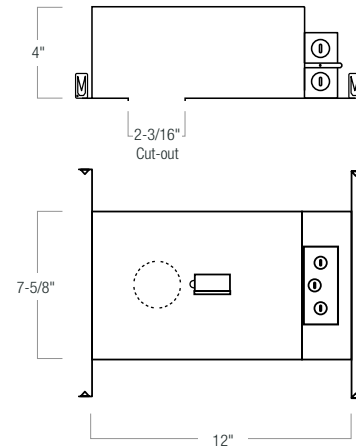
Hex Cell Louver



Flush Mount Mud Ring

IOLITE SERIES COMMERCIAL AND RESIDENTIAL

1" HOUSINGS 600LM



1" IOLITE HOUSING REQUIRES NIO-1 OR NIOB-1 REFLECTOR

HOUSING TYPE / WATTAGE	DRIVER / DIMMING	EMERGENCY
NHIOICD-16 1" IC Air-Tight New Construction Housing, 600lm / 11W	LE3 120V input; Triac / ELV Dimming LE4 120-277V input; Triac / ELV / 0-10V Dimming	EM Wire for emergency battery (order separately)

Example: **NHIOICD-16LE3** - 1" New Construction Housing, 600lm / 11W, 120V input; Triac/ELV dimming

Iolite 1" dedicated LED downlights are available in square and round trims. The Iolite modular system allows users to field change both the trim and beam spread without the use of tools. 20°, 40° and 60° reflectors are included with each module. The 11W Iolite LED module produces 600 lumens at 90+ CRI in various kelvin temperatures.

ELECTRICAL:

Voltage: 120V or 120-277V

Lumens / Wattage: 600lm / 11W

Color Rendering Index: 90+ CRI

Color Temperature: 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim (3100K-2000K)

LED: Cree® COB (2700K-5000K), premium non-Cree COB (Comfort Dim)

Dimming: Triac, ELV or 0-10V

COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 2000K on a gradual, even curve.

CONSTRUCTION:

Housing: Shallow aluminum Air-Tight housing meets air-tight requirements. IC rated for direct contact with thermal insulation. Features patented design with driver mounted to slide out tray. Disconnects are furnished for the line voltage connection as well as the module connection. Access above ceiling is required.

Reflector/Module: Die-cast aluminum reflectors are threaded to mount LED module securely and dissipate heat away from light source. Three field-changeable optics are included with each luminaire: spot, narrow flood and flood (installed).

EMERGENCY: New construction housing is wired with connections for emergency battery installation. Requires top access. NEPK-BSL17C-C2U - battery with remote test switch.

INSTALLATION:

Bar hangers are adjustable from 13-3/4" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installation.

LISTING & WARRANTY:

- cULus Listed for Wet Location
- ENERGY STAR certified
- Can be used to comply with 2016 Title 24 - part 6 High Efficacy LED light source requirements
- ROHS compliant
- 5 Year Limited Warranty



COMMERCIAL AND RESIDENTIAL IOLITE SERIES

600LM 1" NTF REFLECTORS

NEW CONSTRUCTION HOUSING REQUIRED



NIO-1RNB
1" Round Bullnose Regress
Non-Adjustable
BB, BZ, MPW, NN, WW



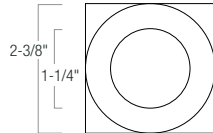
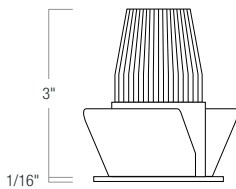
NIO-1SNB
1" Square Bullnose Regress
Non-Adjustable
BZ, MPW, NN, WW



NIO-1RNG
1" Round Straight Regress
Non-Adjustable
BW, BZ, HW, MPW, NN, WW



NIO-1SNG
1" Square Straight Regress
Non-Adjustable
BW, BZ, HW, MPW, NN, WW



1" NTF Iolite trims feature an extremely low profile that blends seamlessly with the ceiling. **1" NTF Iolite trims are compatible only with new construction housings.**

1" IOLITE NTF REFLECTORS NON-ADJUSTABLE · REQUIRES NHIOICD-16 HOUSING

SERIES / SHAPE	REFLECTOR TYPE	COLOR TEMP	FINISH	LUMENS / WATTAGE
NIO-1R 1" Round NTF NIO-1S 1" Square NTF	NB Bullnose Regress NG Straight Regress	27X 2700K 30X 3000K 35X 3500K 40X 4000K 50X 5000K CDX Comfort Dim*	BB Black / Black BW Black / White BZ Bronze / Bronze HW Haze / White MPW Matte Powder White NN Natural Metal WW White / White <i>Not all finishes available on all trims.</i>	(blank) 600lm / 11W

* Comfort Dim uses premium non-Cree COB. 1" Iolite uses a different dimming curve than 2" and 4" Comfort Dim.

Example: **NIO-1RNB27XBZ** - 1" Round NTF Bullnose Reflector, 2700K, Bronze Reflector / Bronze Flange

ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between module and die-cast trim. See page 23 for full details.



Ceiling Extension Collar



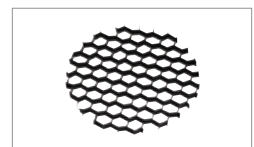
Frosted Filter-Reflector



Translucent Deco Collar



Opaque Collar Snoot



Hex Cell Louver

IOLITE SERIES COMMERCIAL AND RESIDENTIAL

2" HOUSINGS 800LM OR 1000LM



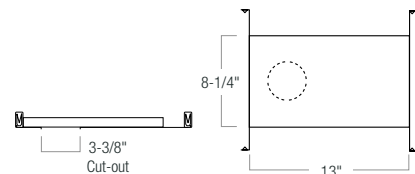
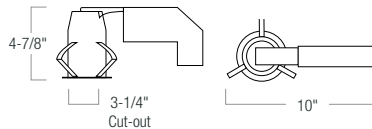
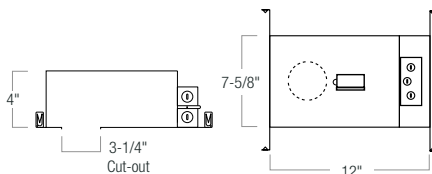
NHIOICD-28
2" Iolite New Construction Housing



NHRIOIC-28
2" Iolite Remodel Housing



NHIOFK-2
2" Iolite Frame-In for Remodel Housing
Allows access to junction box from below the ceiling.



2" IOLITE HOUSING

HOUSING TYPE / WATTAGE	DRIVER / DIMMING	EMERGENCY
NHIOICD-28 2" IC Air-Tight New Construction, 800-1000lm / 14W	LE3 120V input; Triac / ELV Dimming LE4 120-277V input; Triac / ELV / 0-10V Dimming	EM Wire for emergency battery (order separately)
NHRIOIC-28 2" IC Air-Tight Remodel, 800lm / 14W	LE4 120-277V input; Triac / ELV / 0-10V Dimming	
NHIOFK-2 New Construction Frame-In for 2" Iolite Remodel Housing - Allows access to junction box from below the ceiling.		

Example: NHIOICD-28LE3 - 2" New Construction Housing, 800-1000lm / 14W, 120V input; Triac/ELV dimming

Iolite 2" dedicated LED adjustable and non-adjustable downlights are available in square and round designs. The Iolite modular system allows users to field change both the trim and beam spread without the use of tools. Each module includes 25°, 38° and an installed 60° reflector. A 15° reflector is also available. The 14W Iolite LED module produces 800 to 1000 lumens at 90+ CRI in various kelvin temperatures.

ELECTRICAL:

Voltage: 120V or 120-277V

Lumens / Wattage: 800 or 1000lm / 14W

Color Rendering Index: 90+ CRI

Color Temperature: 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim (3100K-2000K)

LED: Cree® COB (2700K-5000K), premium non-Cree COB (Comfort Dim)

Dimming: Triac, ELV or 0-10V

COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 2000K on a gradual, even curve.

CONSTRUCTION:

New Construction Housing: Shallow aluminum Air-Tight housing meets air-tight requirements. IC rated for direct contact with thermal insulation. Features patented design with driver mounted to slide out tray. Disconnects are furnished for the line voltage connection as well as the module connection. Access above ceiling is required.

Remodel Housing: Steel housing connects to pivoting arm with junction box and driver compartment. IC rated for direct contact with thermal insulation. New construction flat frame available to allow access to junction box from below the ceiling.

Reflector/Module: Die-cast aluminum reflectors are threaded to mount LED module securely and dissipate heat away from light source. Three field-changeable optics are included with each luminaire: spot, narrow flood and flood (installed).

EMERGENCY: New construction housing is wired with connections for emergency battery installation. Requires top access. NEPK-BSL17C-C2U - battery with remote test switch.

INSTALLATION:

New Construction: Bar hangers are adjustable from 13-3/4" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installation.

Remodel: Three high-tension tempered steel springs secure remodel housing to ceiling.

LISTING & WARRANTY:

- cULus Listed for Wet Location
- ENERGY STAR certified
- Can be used to comply with 2016 Title 24 - part 6 High Efficacy LED light source requirements
- ROHS compliant
- 5 Year Limited Warranty



COMMERCIAL AND RESIDENTIAL IOLITE SERIES

800LM TO 1000LM 2" REFLECTORS

NEW CONSTRUCTION OR REMODEL HOUSING REQUIRED



NIOB-2RC
2" Round Cone Regress
30° Adj. - New Const.
15° Adjustable - Remodel
BB, BW, BZ, HW, MPW,
NN, WW



NIOB-2SC
2" Square Cone Regress
15° Adjustable
BB, BW, BZ, HW, MPW,
NN, WW



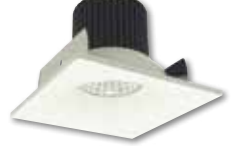
NIOB-2RG
2" Round Surface Gimbal
30° Adj. - New Const.
15° Adjustable - Remodel
BB, BW, MPW, NN, WW



NIOB-2SG
2" Square Surface Gimbal
15° Adjustable
BB, BW, MPW, NN, WW



NIOB-2RNB
2" Round Bullnose Regress
Non-Adjustable
BB, BZ, MPW, NN, WW



NIOB-2SNB
2" Square Bullnose Regress
Non-Adjustable
BZ, MPW, NN, WW



NIOB-2RND
2" Round Deep Cone
Regress
Non-Adjustable
BB, BW, BZ, HW, MPW,
NN, WW



NIOB-2SND
2" Square Deep Cone
Regress
Non-Adjustable
BB, BW, BZ, HW, MPW,
NN, WW



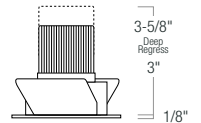
NIOB-2SND
2" Square Deep Cone,
Square Regress
Non-Adjustable
BB, BW, BZ, HN, HW, MPW,
WW



NIOB-2RPH
2" Round Pinhole
Non-Adjustable
BB, BMPW, HZMPW, MPW



NIOB-2RSL
2" Round Slot Aperture
30° Adj. - New Const.
15° Adjustable - Remodel
BB, BMPW, HZMPW, MPW



2" IOLITE REFLECTORS REQUIRES NHIOCD-28 OR NHRIOIC-28 HOUSING

SERIES / SHAPE	REFLECTOR TYPE	COLOR TEMP	FINISH	LUMENS / WATTAGE
NIOB-2R 2" Round NIOB-2S 2" Square	C Adj. Cone Regress G Adj. Surface Gimbal NB Non-Adj. Bullnose NDC Non-Adj. Deep Cone Regress NDCSQ Square Non-Adj. Deep Cone Regress <i>(square trim only)</i> PH Non-Adj. Pinhole <i>(round trim only)</i> SL Adj. Slot Aperture <i>(round trim only)</i>	27X 2700K 30X 3000K 35X 3500K 40X 4000K 50X 5000K CDX Comfort Dim*	BB Black / Black BMPW Black / Matte Powder White BW Black / White BZ Bronze / Bronze HN Haze / Natural Metal HW Haze / White HZMPW Haze / Matte Powder White MPW Matte Powder White NN Natural Metal WW White / White <i>Not all finishes available on all trims.</i>	(blank) 800lm / 14W /10 1000lm / 14W <i>1000lm not available with Comfort Dim</i>

* Comfort Dim uses premium non-Cree COB. 1" Iolite uses a different dimming curve than 2" and 4" Comfort Dim.

Example: **NIOB-2RG27XBZ** - 2" Round Surface Gimbal Reflector, 2700K, Bronze Reflector / Bronze Flange, 800lm /14W

ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between module and die-cast trim. See page 23 for full details.



Ceiling Extension Collar



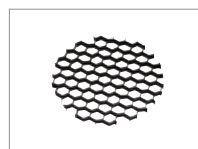
Frosted Filter-Reflector



Translucent Deco Collar



Opaque Collar Snoot



Hex Cell Louver



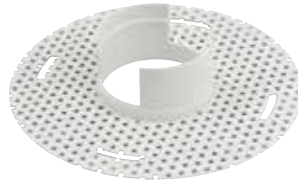
Flush Mount Mud Ring

IOLITE SERIES COMMERCIAL AND RESIDENTIAL

2" TRIMLESS REFLECTORS 800LM OR 1000LM

2" IOLITE NEW CONSTRUCTION HOUSING REQUIRED

Iolite Trimless has no exposed trim flange and does not extend below the ceiling plane. This clean and sophisticated look is accomplished by mudding the trimless mud ring to the ceiling, then snapping the flangeless reflector into the ring. Iolite Trimless is available in 2" and 4" apertures.



NIO-TLMR-2R
2" Round Trimless Mud Ring



NIO-2RTL
2" Round Trimless Adjustable
15° Adjustable
BB, BW, BZ, HW, HZ, MPW, WW



NIO-2RTLND
2" Round Trimless Deep Cone
Non-Adjustable
BB, BZ, HZ, MPW, WW

Iolite Trimless requires three parts:

1. Iolite New Construction Housing
2. Iolite Trimless Mud Ring
3. Iolite Trimless Reflector



1. IOLITE NEW CONSTRUCTION HOUSING

REQUIRES MUD RING AND TRIMLESS REFLECTOR

HOUSING TYPE / WATTAGE	DRIVER / DIMMING	EMERGENCY
NHIOICD-28 2" ICAT New Construction, 800-1000lm / 14W	LE3 120V input; Triac / ELV LE4 120-277V input; Triac / ELV / 0-10V	EM Wire for emergency battery (order separately)

Example: **NHIOICD-28LE3** - 2" New Construction Housing, 800-1000lm, 120V input

2. IOLITE TRIMLESS MUD RING

REQUIRES HOUSING AND TRIMLESS REFLECTOR

SERIES / APERTURE	SHAPE
NIO-TLMR-2 2" Trimless Mud Ring	R Round

Example: **NIO-TLMR-2R** – Trimless Mud Ring for 2" Trimless Reflector

3. IOLITE MODULAR TRIMLESS REFLECTORS

REQUIRES HOUSING AND TRIMLESS MUD RING

SERIES / APERTURE / TYPE	COLOR TEMP	FINISH	LUMENS / WATTAGE
NIO-2RTL 2" Round Trimless Adjustable	27X 2700K	BB Black	(blank) 800lm / 14W
NIO-2RTLND 2" Round Trimless Non-Adj Deep Cone	30X 3000K	BW Black / White	/10 1000lm / 14W
	35X 3500K	BZ Bronze	1000lm not available with Comfort Dim
	40X 4000K	HW Haze / White	
	50X 5000K	HZ Haze	
	CDX Comfort Dim*	MPW Matte Powder White	
		WW White	

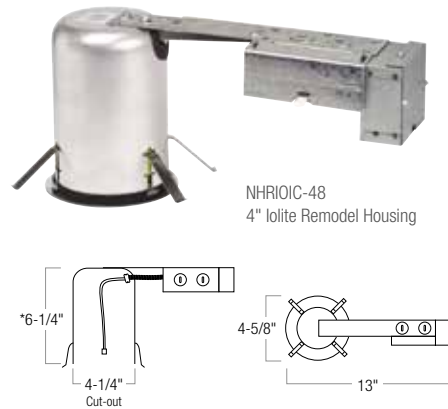
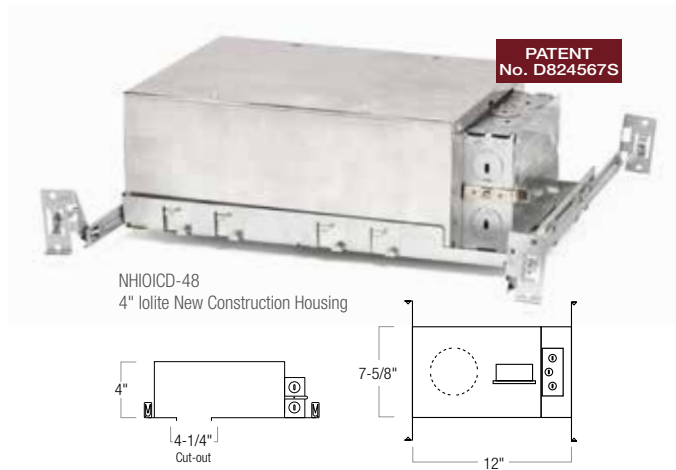
Not all finishes available on all trims.

Example: **NIO-2RTLND30XMPW** - 2" Round Trimless Deep Cone Reflector, 3000K, Matte Powder White, 800lm / 14W



IOLITE SERIES COMMERCIAL AND RESIDENTIAL

4" HOUSINGS 800LM OR 1000LM



4" IOLITE HOUSING

HOUSING TYPEZ / WATTAGE	DRIVER / DIMMING	EMERGENCY
NHIOICD-48 4" IC Air-Tight New Construction, 800-1000lm / 14W	LE3 120V input; Triac / ELV Dimming	EM Wire for emergency battery (order separately)
NHRIOIC-48 4" IC Air-Tight Remodel, 800lm / 14W	LE4 120-277V input; Triac / ELV / 0-10V Dimming	

Example: **NHIOICD-48LE3** - 4" New Construction Housing, 800-1000lm / 14W, 120V input; Triac/ELV dimming

Iolite 4" dedicated LED adjustable and non-adjustable downlights are available in square and round designs. The Iolite modular system allows users to field change both the trim and beam spread without the use of tools. Each module includes 25°, 38° and an installed 60° reflector. A 15° reflector is also available. The 14W Iolite LED module produces 800 to 1000 lumens at 90+ CRI in various kelvin temperatures.

ELECTRICAL:

Voltage: 120V or 120-277V

Lumens / Wattage: 800 or 1000lm / 14W

Color Rendering Index: 90+ CRI

Color Temperature: 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim (3100K-2000K)

LED: Cree® COB (2700K-5000K), premium non-Cree COB (Comfort Dim)

Dimming: Triac, ELV or 0-10V

COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 2000K on a gradual, even curve.

CONSTRUCTION:

New Construction Housing: Shallow aluminum Air-Tight housing meets air-tight requirements. IC rated for direct contact with thermal insulation. Features patented design with driver mounted to slide out tray. Disconnects are furnished for the line voltage connection as well as the module connection.

Remodel Housing: Aluminum housing connects to arm with junction box and driver compartment. IC rated for direct contact with thermal insulation.

Reflector/Module: Die-cast aluminum reflectors are threaded to mount LED module securely and dissipate heat away from light source. Three field-changeable optics are included with each luminaire: spot, narrow flood and flood (installed).

EMERGENCY: New construction housing is wired with connections for emergency battery installation. Requires top access. NEPK-BSL17C-C2U - battery with remote test switch.

INSTALLATION:

New Construction: Bar hangers are adjustable from 13-3/4" to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installation.

Remodel: Three high-tension tempered steel springs secure remodel housing to ceiling.

LISTING & WARRANTY:

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



ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between module and die-cast trim. See page 23 for full details.



Ceiling Extension Collar



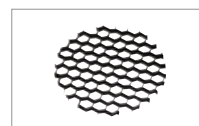
Frosted Filter-Reflector



Translucent Deco Collar



Opaque Collar Snoot



Hex Cell Louver



Flush Mount Mud Ring

COMMERCIAL AND RESIDENTIAL **IOLITE SERIES**
800LM TO 1000LM 4" REFLECTORS
NEW CONSTRUCTION OR REMODEL HOUSING REQUIRED



NIO-4RC
 4" Round Cone Regress
 45° Adj. - New Const.
 40° Adj. - Remodel
 BB, BW, BZ, HW, MPW, NN, WW



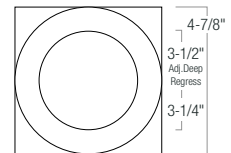
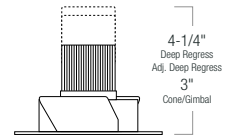
NIO-4SC
 4" Square Cone Regress
 35° Adjustable
 BB, BW, BZ, HW, MPW, NN, WW



NIO-4RG
 4" Round Surface Gimbal
 45° Adj. - New Const.
 40° Adj. - Remodel
 BB, BW, MPW, NN, WW



NIO-4SG
 4" Square Surface Gimbal
 35° Adjustable
 BB, BW, MPW, NN, WW



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



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



NIO-4RPH
 4" Round Pinhole
 Non-Adjustable
 BB, BMPW, HZMPW, MPW



NIO-4RSL
 4" Round Slot Aperture
 30° Adjustable - New Const.
 15° Adjustable - Remodel
 BB, BMPW, HZMPW, MPW



NIO-4RD
 4" Round Deep Adjustable
 Regress
 45° Adjustable - New Const.
 40° Adj. - Remodel
 BB, BW, BZ, HW, MPW, NN, WW



NIO-4SD
 4" Square Deep Adjustable
 Regress
 35° Adjustable
 BB, BW, BZ, HW, MPW, NN, WW



NIO-4RND
 4" Round Deep Cone Regress
 Non-Adjustable
 BB, BW, BZ, HW, MPW, NN, WW



NIO-4SND
 4" Square Deep Cone Regress
 Non-Adjustable
 BB, BW, BZ, HW, MPW, NN, WW



NIO-4SND
 4" Square Deep Cone, Square
 Regress
 Non-Adjustable
 BB, BW, BZ, HW, MPW, NN, WW

4" IOLITE REFLECTORS REQUIRES NHIOICD-48 OR NHRIOIC-48 HOUSING

SERIES / SHAPE	REFLECTOR TYPE	COLOR TEMP	FINISH	LUMENS / WATTAGE
NIO-4R 4" Round NIO-4S 4" Square	C Adj. Cone Regress D Adj. Deep Regress G Adj. Surface Gimbal NB Non-Adj. Bullnose NDC Non-Adj. Deep Cone Regress NDCSQ Square Non-Adj. Deep Cone Regress (square trim only) PH Non-Adj. Pinhole (round trim only) SL Adj. Slot Aperture (round trim only)	27X 2700K 30X 3000K 35X 3500K 40X 4000K 50X 5000K CDX Comfort Dim*	BB Black / Black BMPW Black / Matte Powder White BW Black / White BZ Bronze / Bronze HN Haze / Natural Metal HW Haze / White HZMPW Haze / Matte Powder White MPW Matte Powder White NN Natural Metal WW White / White	(blank) 800lm / 14W /10 1000lm / 14W 1000lm not available with Comfort Dim
* Comfort Dim uses premium non-Cree COB. 1" Iolite uses a different dimming curve than 2" and 4" Comfort Dim. Not all finishes available on all trims.				

Example: **NIO-4SG30XNN** - 4" Square Regressed Surface Gimbal, 3000K, Natural Metal Gimbal / Natural Metal Flange, 800lm

IOLITE SERIES COMMERCIAL AND RESIDENTIAL

4" TRIMLESS REFLECTORS 800LM OR 1000LM

4" IOLITE NEW CONSTRUCTION HOUSING REQUIRED

Iolite Trimless has no exposed trim flange and does not extend below the ceiling plane. This clean and sophisticated look is accomplished by mudding the trimless mud ring to the ceiling, then snapping the flangeless reflectors into the ring. Iolite Trimless is available in 2" and 4" apertures.



NIO-TLMR-4R Round
NIO-TLMR-4S Square
4" Trimless Mud Ring



NIO-4RTLA
4" Round Trimless
Adjustable
35° Adjustable
BB, BW, BZ, HW, HZ, MPW, WW



NIO-4RTLND
4" Round Trimless
Deep Cone
Non-Adjustable
BB, BW, BZ, MPW, WW



NIO-4STLND
4" Square Trimless
Deep Cone
Non-Adjustable
BB, BZ, HZ, MPW, WW

Iolite Trimless requires three parts:

1. Iolite New Construction Housing
2. Iolite Trimless Mud Ring
3. Iolite Trimless Reflector



1. IOLITE NEW CONSTRUCTION HOUSING

REQUIRES MUD RING AND TRIMLESS REFLECTOR

HOUSING TYPE / WATTAGE	DRIVER / DIMMING	EMERGENCY
NHIOICD-48 4" ICAT New Construction, 800-1000lm / 14W	LE3 120V input; Triac / ELV LE4 120-277V input; Triac / ELV / 0-10V	EM Wire for emergency battery (order separately)

Example: **NHIOICD-48LE3** - 4" New Construction Housing, 800-1000lm, 120V input

2. IOLITE TRIMLESS MUD RING

REQUIRES HOUSING AND TRIMLESS REFLECTOR

SERIES / APERTURE	SHAPE
NIO-TLMR-4 4" Trimless Mud Ring	R Round S Square

Example: **NIO-TLMR-4R** - Trimless Mud Ring for 4" Round Trimless Reflector

3. IOLITE MODULAR TRIMLESS REFLECTORS

REQUIRES HOUSING AND TRIMLESS MUD RING

SERIES / APERTURE / TYPE	COLOR TEMP	FINISH	LUMENS / WATTAGE
NIO-4RTLA 4" Round Trimless Adjustable	27X 2700K	BB Black	(blank) 800lm / 14W
NIO-4RTLND 4" Round Trimless Non-Adj Deep Cone	30X 3000K	BW Black / White	/10 1000lm / 14W
NIO-4STLND 4" Square Trimless Non-Adj Deep Cone	35X 3500K	BZ Bronze	1000lm not available with Comfort Dim
	40X 4000K	HW Haze / White	
	50X 5000K	HZ Haze	
	CDX Comfort Dim*	MPW Matte Powder White	
		WW White	

* Comfort Dim uses premium non-Cree COB. 1" Iolite uses a different dimming curve than 2" and 4" Comfort Dim.

Not all finishes available on all trims.

Example: **NIO-4RTLND30XMPW** - 4" Round Trimless Deep Cone, 3000K, Matte Powder White Reflector.



IOLITE SERIES LED RETROFIT AND DEDICATED

4" RETROFIT 800LM



4" IOLITE RETROFIT

SERIES / APERTURE	REFLECTOR TYPE	COLOR TEMP	FINISH	LUMENS / WATTAGE
NIR-4R 4" Round Retrofit	C Cone Regress	27X 2700K	BB Black with Black Flange	(blank) 800lm / 14W
NIR-4S 4" Square Retrofit	G Surface Gimbal	30X 3000K	BW Black with White Flange	
	NB Non-Adj. Bullnose	35X 3500K	BZ Bronze with Bronze Flange	
		40X 4000K	HW Haze with White Flange	
		50X 5000K	MPW Matte Powder White with White Flange	
		CDX Comfort Dim	NN Natural Metal with Nat. Metal Flange	
			WW White with White Flange	

* Comfort Dim uses premium non-Cree COB. 1" Iolite uses a different dimming curve than 2" and 4" Comfort Dim.

Example: **NIR-4RC27XWW** - 4" Round Cone Regress Retrofit, 2700K, Natural Metal with Natural Metal Flange, 800lm / 14W

4" Iolite retrofit LED adjustable downlights are available in square and round designs. The modular system allows users to field change both the trim and beam spread from spot to flood without using any tools. The LED module is 14W and produces 800 lumens at 90 CRI in various kelvin temperatures.

ELECTRICAL:

Voltage: 120V or 120-277V

Lumens / Wattage: 800lm / 14W

Color Rendering Index: 90+ CRI

Color Temperature: 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim (3100K-2000K)

LED: Cree® COB (2700K-5000K), premium non-Cree COB (Comfort Dim)

Dimming: Triac or ELV

COMFORT DIM: Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 2000K on a gradual, even curve.

CONSTRUCTION:

Reflector/Module: Die-cast aluminum reflectors are threaded to mount LED module securely and dissipate heat away from light source. Three field-changeable optics are included with each luminaire: spot, narrow flood and flood (installed).

INSTALLATION: Compatible with Nora housings listed and with some 4" housing by others. Check dimensions - in some cases compatibility requires removing the existing socket from housing.

RETROFIT: Iolite retrofit series includes medium base socket adapter (NRA-211SM) for retrofitting into existing medium base downlight housings. GU24 socket adapter is available for use with GU24 housings, must specify NRA-212SM.

LISTING & WARRANTY:

- cULus Classified for Damp Location
- ENERGY STAR certified
- ROHS compliant
- 5 Year Limited Warranty

COMPATIBLE HOUSINGS:

New Construction

NHIC-4LMRAT 4" ICAT Dedicated LED

NFBIC-4LMRAT 4" ICAT Dedicated LED Fire Box

NHIC-4LMRAT/277 4" ICAT Dedicated LED, 277V

NSIC-401QAT 4" ICAT Line Voltage

NFBIC-4INCAT 4" ICAT Line Voltage Fire Box

NS-401QAT 4" AT Line Voltage

NHIC-4G24AT 4" ICAT GU24¹

Remodel

NHRIC-4LMRAT 4" Remodel ICAT Dedicated LED

NSR-404QAT 4" Remodel AT Line Voltage

NHRIC-4G24AT 4" Remodel ICAT GU24¹

¹Requires **NRA-212SM** - GU24 adapter



IOLITE SERIES ACCESSORIES

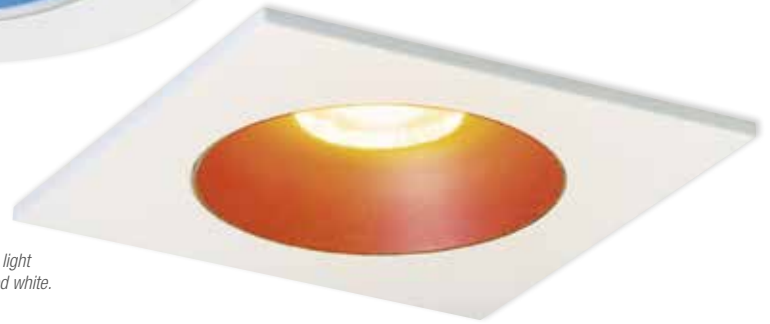
Shown with blue translucent Deco collar. Aperture appears blue, but light output is as specified white.



Shown with snoot accessory. Minimizes aperture brightness and softens beam edge



Shown with amber translucent Deco collar. Aperture appears amber, but light output is as specified white.



Ceiling Extension Collar

NIO-1EXTC2	for NHIOICD-16
NIO-2EXTC2	for NHIOICD-28
NIO-4EXTC2	for NHIOICD-48

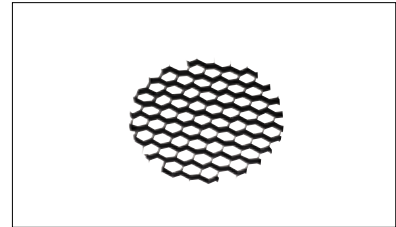
Allows new construction housings to install in ceiling thicknesses up to 2"



Frosted Filter-Reflector Assembly

NIO-1REFL20FR	20° Reflector, 1" Iolite
NIO-1REFL40FR	40° Reflector, 1" Iolite
NIO-1REFL60FR	60° Reflector, 1" Iolite
NIO-REFLTIR15	Premium 15° Reflector, 2" & 4" Iolite
NIO-REFLTIR25	Premium 25° Reflector, 2" & 4" Iolite
NIO-REFL15FR	15° Reflector, 2" and 4" Iolite
NIO-REFL25FR	25° Reflector, 2" and 4" Iolite
NIO-REFL38FR	38° Reflector, 2" and 4" Iolite
NIO-REFL60FR	60° Reflector, 2" and 4" Iolite

Filter-Reflector assemblies include specified reflector and frosted lens. Lens can be installed in other reflectors supplied with units.



Hex Cell Louver

NIO-1HC	for 1" Iolite
NIO-HC	for 2" and 4" Iolite

Hex cell louver subtly reduces aperture brightness. It will also reduce light output by about 20%.



Translucent Deco Collar

NIO-1AS15(color)	5/8" (15mm) depth, 1" Iolite
NIO-1AS19(color)	3/4" (19mm) depth, 1" Iolite
NIO-1AS24(color)	1" (24mm) depth, 1" Iolite
NIO-AS14(color)	5/8" (15mm) depth, 2" and 4" Iolite
NIO-AS19(color)	3/4" (19mm) depth, 2" and 4" Iolite
NIO-AS26(color)	1" (24mm) depth, 2" and 4" Iolite

FINISH: BLU Blue; FR Frost; AM Amber; 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.

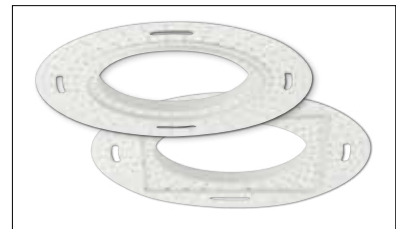


Opaque Collar Snoot

NIO-1AS15(color)	5/8" (15mm) depth, 1" Iolite
NIO-1AS19(color)	3/4" (19mm) depth, 1" Iolite
NIO-1AS24(color)	1" (24mm) depth, 1" Iolite
NIO-AS14(color)	5/8" (15mm) depth, 2"/4" Iolite
NIO-AS19(color)	3/4" (19mm) depth, 2"/4" Iolite
NIO-AS26(color)	1" (24mm) depth, 2"/4" Iolite

COLOR: BLK Black; MPW Matte Powder White; WH White

Opaque snoot greatly reduces aperture brightness while preserving light output. (Note: Black snoot will reduce light).



Flush Mount Mud Ring

NIO-FMMR-1R	1" Round
NIO-FMMR-1S	1" Square
NIO-FMMR-2R	2" Round
NIO-FMMR-2S	2" Square
NIO-FMMR-4R	4" Round
NIO-FMMR-4S	4" Square

Allows flanged Iolite trims to be installed even with the ceiling plane. Flange is visible. Attaches to drywall. Requires professional drywall finishing. Only for use with NIOB-1, NIOB-2, NIO-4 trims and respective new construction housings.

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

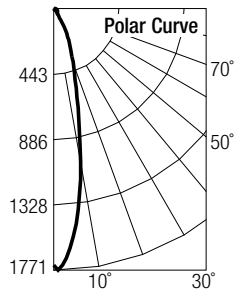
IOLITE SERIES

1" PHOTOMETRICS

1" IOLITE LED 3000K, 20°

Item Number: NIOB-1RNG3020WW

Lumens: 556lm



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	418	75.2
0-40	461	82.9
0-60	515	92.7
0-90	554	99.8

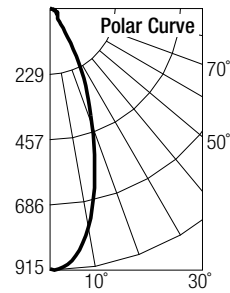
Candela Table	
Vertical Angles	Candela
0	1738
15	612
25	252
35	58
45	39

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	109fc	1'-8"
6'	48.3fc	2'-6"
8'	27.2fc	3'-4"
10'	17.4fc	4'-2"
12'	12.1fc	5'

1" IOLITE LED 3000K, 40°

Item Number: NIOB-1RNG3040WW

Lumens: 532lm



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	378	71
0-40	426	80.1
0-60	485	91.1
0-90	531	99.8

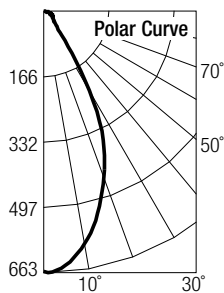
Candela Table	
Vertical Angles	Candela
0	910
15	606
25	291
35	66
45	38

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	56.9fc	2'-10"
6'	25.3fc	4'-2"
8'	14.2fc	5'-7"
10'	9.1fc	7'
12'	6.3fc	8'-4"

1" IOLITE LED 3000K, 60°

Item Number: NIOB-1RNG3060WW

Lumens: 539lm



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	363	67.3
0-40	436	80.9
0-60	494	91.7
0-90	538	99.8

Candela Table	
Vertical Angles	Candela
0	660
15	521
25	352
35	108
45	39

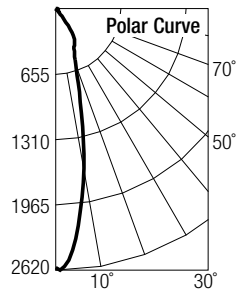
Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	41.2fc	3'-11"
6'	18.3fc	5'-10"
8'	10.3fc	7'-10"
10'	6.6fc	9'-8"
12'	4.6fc	11'-7"

IOLITE SERIES

2" PHOTOMETRICS

2" IOLITE LED 3000K, 25°

Item Number: NIOB-2RC3025WW
Lumens: 947lm



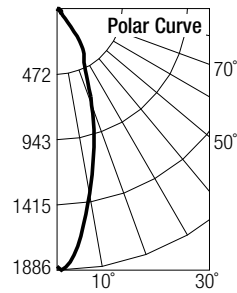
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	675	71.2
0-40	839	88.6
0-60	906	95.7
0-90	945	99.8

Candela Table	
Vertical Angles	Candela
0	2594
15	967
25	443
35	291
45	45

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	162fc	1'-8"
6'	72.1fc	2'-7"
8'	40.5fc	3'-6"
10'	25.9fc	4'-5"
12'	18fc	5'-2"

2" IOLITE LED 3000K, 38°

Item Number: NIOB-2RC3038WW
Lumens: 936lm



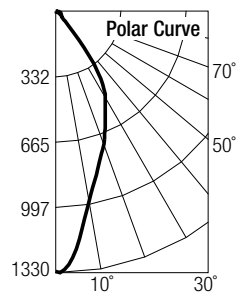
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	623	70.8
0-40	824	88.1
0-60	892	95.3
0-90	934	99.8

Candela Table	
Vertical Angles	Candela
0	1858
15	1021
25	480
35	279
45	45

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	116fc	2'-5"
6'	51.6fc	3'-7"
8'	29fc	4'-10"
10'	18.6fc	5'-11"
12'	12.9fc	7'-1"

2" IOLITE LED 3000K, 60°

Item Number: NIOB-2RC3060WW
Lumens: 962lm



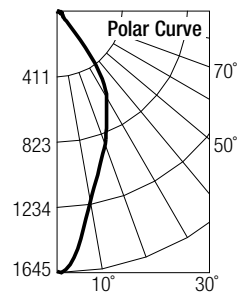
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	614	63.8
0-40	831	86.3
0-60	913	94.9
0-90	960	99.8

Candela Table	
Vertical Angles	Candela
0	1324
15	826
25	594
35	371
45	56

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	82.8fc	3'-4"
6'	36.8fc	4'-11"
8'	20.7fc	6'-6"
10'	13.2fc	8'-1"
12'	9.2fc	9'-10"

2" IOLITE LED 3000K, 60°

Item Number: NIOB-2RC3060WW/10
Lumens: 1246lm



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	793	63.7
0-40	1071	86
0-60	1180	94.7
0-90	1243	99.8

Candela Table	
Vertical Angles	Candela
0	1635
15	1070
25	768
35	474
45	74

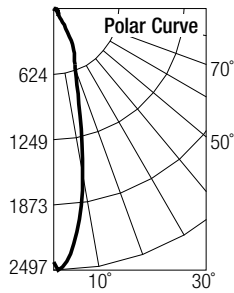
Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	102fc	3'-6"
6'	45.4fc	5'-2"
8'	25.5fc	6'-11"
10'	16.4fc	8'-8"
12'	11.4fc	10'-5"

IOLITE SERIES

4" PHOTOMETRICS

4" IOLITE LED 3000K, 25°

Item Number: NIO-4RG3025WW
Lumens: 939lm



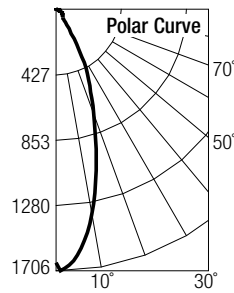
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	667	71
0-40	761	81
0-60	861	91
0-90	936	99.7

Candela Table	
Vertical Angles	Candela
0	2497
15	905
25	466
35	129
45	68

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"

4" IOLITE LED 3000K, 38°

Item Number: NIO-4RG3038WW
Lumens: 929lm



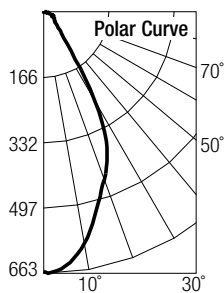
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	652	70.2
0-40	747	80.4
0-60	848	91.3
0-90	926	99.7

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

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	106fc	2'-6"
6'	27.1fc	3'-10"
8'	26.5fc	5'
10'	17fc	6'-4"
12'	11.8fc	7'-6"

4" IOLITE LED 3000K, 60°

Item Number: NIO-4RG3060WW
Lumens: 927lm



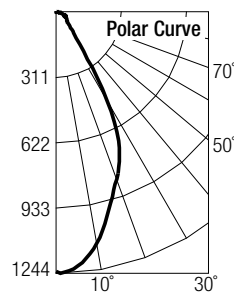
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	583	62.9
0-40	726	78.3
0-60	841	90.7
0-90	924	99.7

Candela Table	
Vertical Angles	Candela
0	1003
15	802
25	594
35	212
45	80

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"

4" IOLITE LED 3000K, 60°

Item Number: NIO-4RG3060WW/10
Lumens: 1084lm



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	701	64.7
0-40	859	79.2
0-60	987	91.1
0-90	1077	99.3

Candela Table	
Vertical Angles	Candela
0	1237
15	971
25	713
35	227
45	89

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	77.3fc	4'-2"
6'	34.4fc	6'-2"
8'	19.3fc	8'-4"
10'	12.4fc	10'-5"
12'	8.6fc	12'-6"



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