

NORA<sup>®</sup>  
LIGHTING



## IOLITE SERIES

SMALL APERTURE LED DOWNLIGHTING &  
MULTIPLE LIGHTING SYSTEM





# 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 trims, that produce up to 2500 lumens in a variety of color temperatures.

Trim 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 LED module ships with three field changeable optics (spot, narrow flood and flood) to direct the beam of light when needed. 2" and 4" downlights offer a clean knife edge appearance with trimless or flush mount options.

Entire family is available with dedicated housings or can-less without any housing. 4" Trims are 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" trims produce up to 600 lumens
- 2" and 4" trims produce up to 2500 lumens
- 2700K, 3000K, 3500K, 4000K, 5000K or Comfort Dim technology @ 90+ CRI

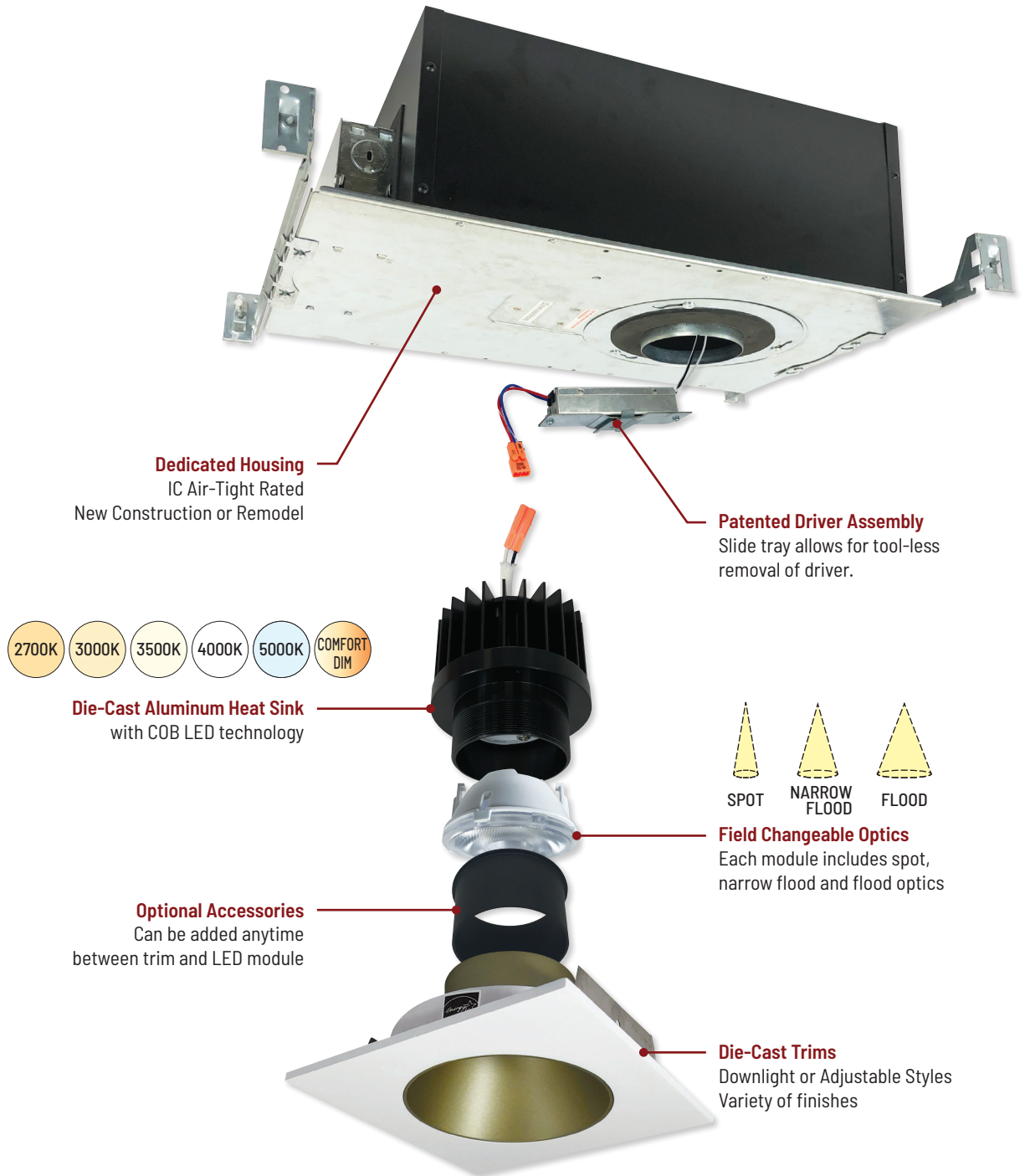
## VERSATILITY

- Variety of different trim and trimless styles
- Round or Square trims available in multiple finishes
- Each LED module includes three optics (Narrow spot 10° TIR module assembly also available)
- Decorative collars, snoots and louver accessories
- Three mounting styles (standard flange, trimless or flush mount)
- Can-less (without housing) or with dedicated housings (new construction or remodel)

## INNOVATION

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

# IOLITE DOWNLIGHT SYSTEM

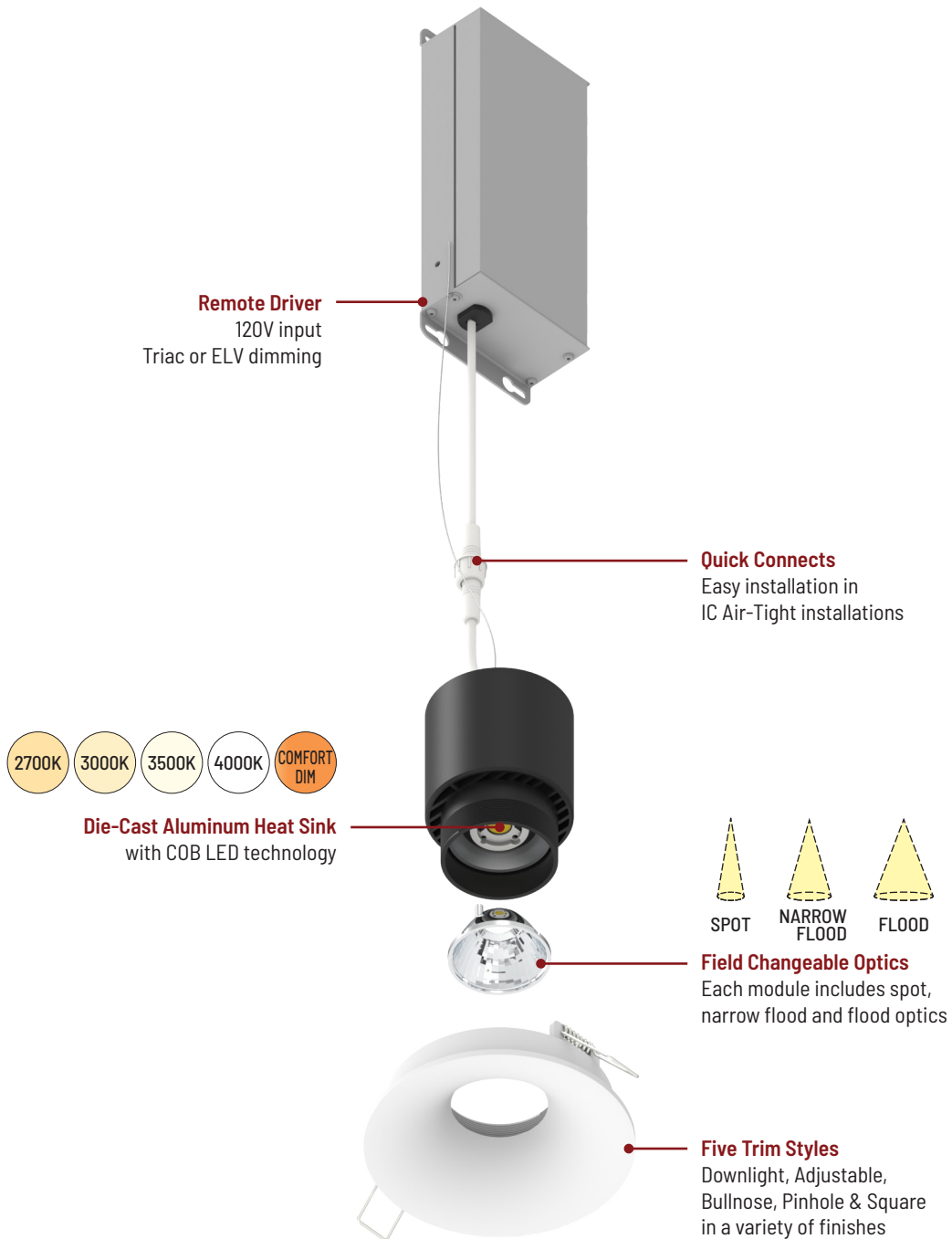


## FINISHES

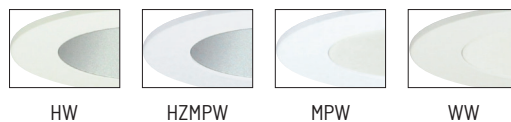




# IOLITE CAN-LESS DOWNLIGHTS



## FINISHES



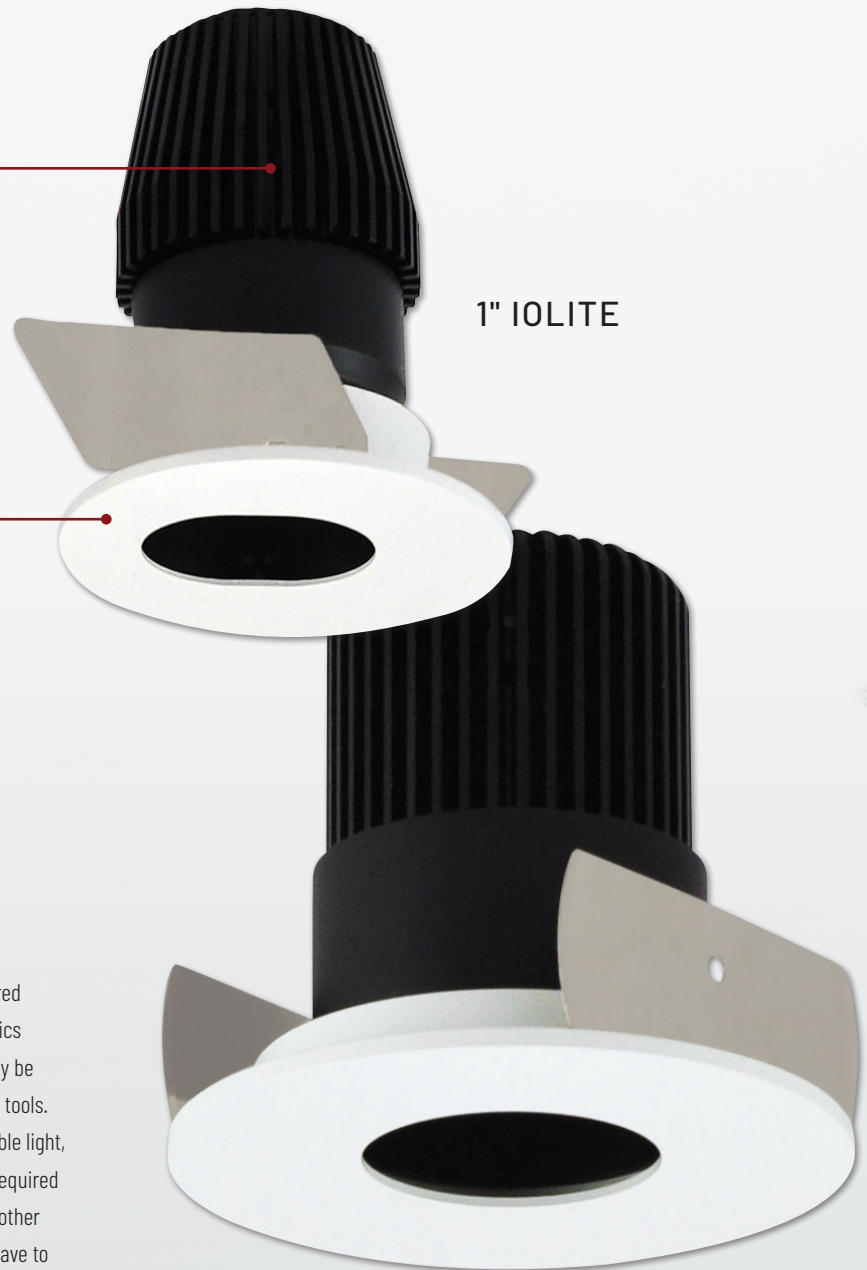
# FIXTURES SHOWN ACTUAL SIZE

COB LED technology module features die-cast aluminum heat dissipating fins. Module's fine threads screw into die-cast aluminum trims.

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

## DIRECTED LIGHT

Iolite is designed with dedicated optics offered in flood, narrow flood and spot patterns. Optics are included with each module and can easily be installed during final installation without any tools. 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 Iolite downlight produce with less wattage.



1" IOLITE

2" IOLITE

# THREE FINISHING OPTIONS



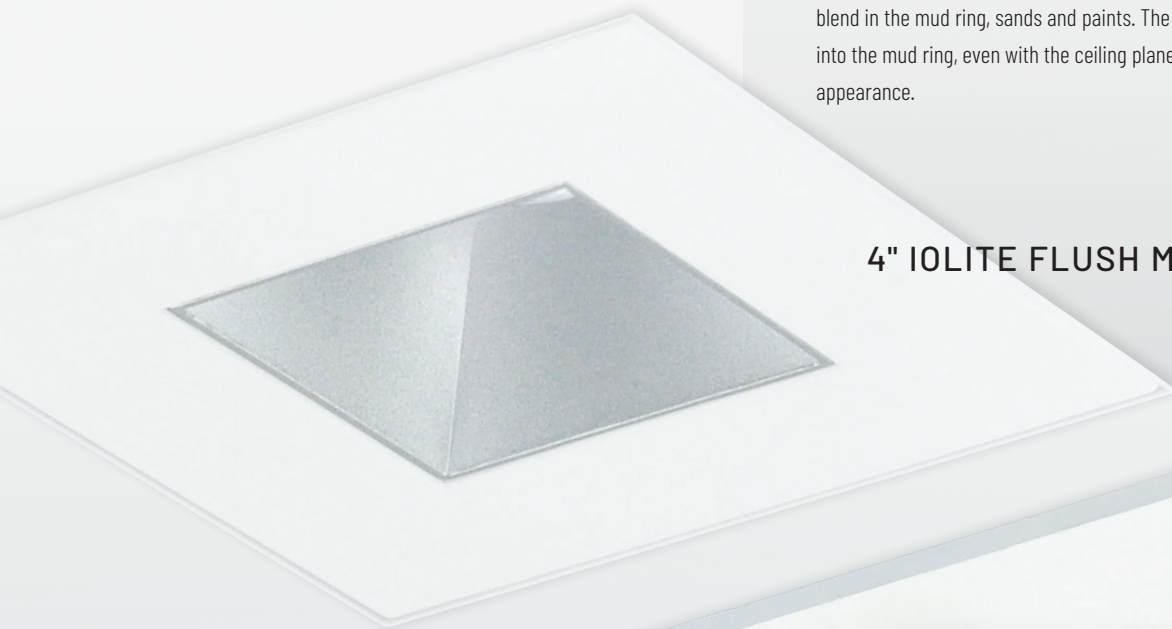
**4" IOLITE TRIMLESS**

## TRIMLESS

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

## FLUSH MOUNT

Flush mount option requires the installation of a flush mount mud ring after the drywall is installed. A professional drywall finisher floats the ceiling to blend in the mud ring, sands and paints. The flanged trim is then inserted into the mud ring, even with the ceiling plane, for a beautiful seamless appearance.



**4" IOLITE FLUSH MOUNT**

## FLANGED

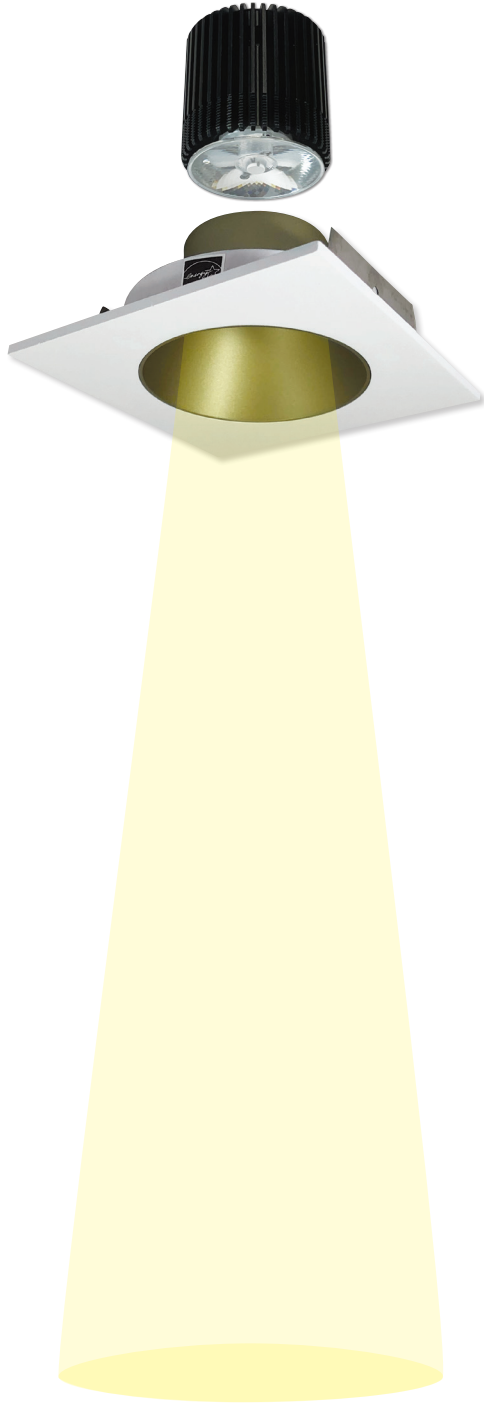
A standard finishing technique, the flanged option requires the least labor and offers the largest selection of trims. Iolite flanges are extremely thin, extending off the ceiling ever so slightly, approximately  $\frac{1}{16}$ ".



**4" IOLITE (STANDARD)**







# 10° TIR OPTIC

## NARROW SPOT LED MODULE

Dedicated LED module specifically built to achieve a super narrow spot. Standard Iolite modules include field changeable optics and cannot be adapted to utilize the 10 degree optic.

### Why choose a narrow spot TIR optic?

Some applications will require a perfect beam of light on a particular object or area.

Example: Art, retail display, museums, foyers, etc.

### Less lumens than 1000lm Iolite modules?

When using tight beam spreads, center beam candlepower (CBCP) is more important than delivered lumens. Allows for less spill light and more punch on the focal point. Delivering over 20 footcandles at 20' distance.

LUMENS / WATTAGE: 800-900lm / 12W

COLOR TEMPERATURE: 2700K, 3000K, 3500K, 4000K



COMPATIBLE TRIMS: ALL 2" FLANGED & TRIMLESS  
ALL 4" FLANGED & TRIMLESS



HOW TO ORDER: CHANGE "X" IN CCT TO "Q" (example: NIO-4RCQWW)

2" FLANGED



2" TRIMLESS



4" FLANGED



4" TRIMLESS







3100K

2500K

2000K



# LED Dimming Two Choices

## WHITE LIGHT DIMMING AND COMFORT DIM

Sapphire, Marquise, Lolite, Pearl 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

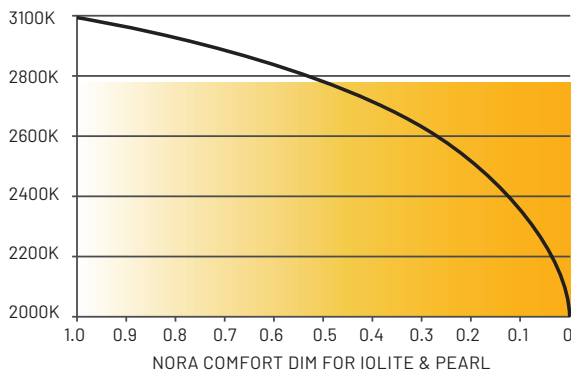
Unlike incandescent dimming, most LED dimming does not change in color as power decreases but remains close to the original color temperature of the source. This is called White Light Dimming. White Light dimming is also found with fluorescent dimming, and has become accepted in most commercial, architectural 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. Sapphire and Marquise Series goes from 2700K to 1800K, Lolite and Pearl 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.



*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 CAN-LESS COMMERCIAL AND RESIDENTIAL

## 1" 950LM



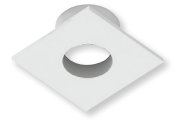
**NJCB-09**  
9W Remote Driver



**NIOC-1LED**  
1" 950lm LED Module  
(includes three field changeable optics)



**NIOC-1RNG**  
1" Round Downlight Trim

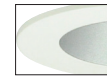


**NIOC-1SNG**  
1" Square Downlight Trim

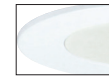


**NIOC-1RNB**  
1" Round Bullnose Trim

### FINISHES



HW



MPW



WW

### REMOTE DRIVER

#### DESCRIPTION

**NJCB-09** 9W Remote Driver  
120V input; Triac / ELV dimming

Example: **NJCB-09** - 9W Remote Driver

### 1" IOLITE CAN-LESS MODULE

#### DESCRIPTION

**NIOC-1LED** 950lm LED Module

#### COLOR TEMPERATURE

**27X** 2700K  
**30X** 3000K  
**35X** 3500K  
**40X** 4000K  
**CDX** Comfort Dim  
(2900K to 1900K)

Example: **NIOC-1LED30X** = 1" Iolite LED Module, 950lm / 3000K

### 1" IOLITE CAN-LESS TRIMS

#### DESCRIPTION

**NIOC-1RNB** Round Bullnose  
**NIOC-1RNG** Round Downlight  
**NIOC-1SNG** Square Downlight

#### FINISH

**HW** Haze / White  
**MPW** Matte Powder White  
**WW** White

Example: **NIOC-1SNGHW** = 1" Iolite Square Downlight, Haze / White

1" Iolite can-less downlights allow for small aperture lighting without any housing. The modular system is ordered separately, which allows users to field change both the trim and beam spread without the use of tools. Simply cut the ceiling, wire the junction box and insert the IC Air-Tight luminaire in the ceiling cavity.

#### ELECTRICAL:

**Voltage:** 120V

**Lumens / Wattage:** 950lm / 9W

**Color Temperature:** 2700K, 3000K, 3500K, 4000K and Comfort Dim (3000K-1900K)

**Color Rendering Index:** 90+ CRI

**Dimming:** Triac or ELV

#### COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 2900K, to a romantic and comfortable 1900K on a gradual, even curve.

#### OPTICS:

Three field-changeable optics are included with each LED module: narrow flood, spot and flood (pre-installed). Optional frosted optics are also available, see page 29.

#### CONSTRUCTION:

Die-cast aluminum trims are threaded to mount LED module securely and dissipate heat away from light source and meet air-tight requirements. IC rated for direct contact with thermal insulation.

#### INSTALLATION:

No housing is required, two tension steel spring clips secure luminaire to ceiling. Accommodates ceiling thickness up to 3/4".

**ACCESSORIES:** Trims can accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see page 29.

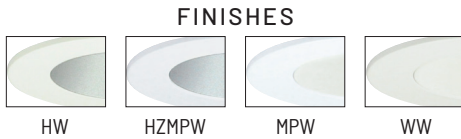
#### LISTING & WARRANTY:

- cULus Listed for Wet Location
- ENERGY STAR certified
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- 5 Year Limited Warranty



# COMMERCIAL AND RESIDENTIAL IOLITE CAN-LESS

## 1250LM 2" & 4"



REMOTE DRIVER	
DESCRIPTION	
<b>NJCB-12</b>	12W Remote Driver 120V input; Triac / ELV dimming
<i>Example: NJCB-12 - 12W Remote Driver</i>	

2" & 4" IOLITE CAN-LESS MODULE		
DESCRIPTION	COLOR TEMPERATURE	
<b>NIOC-24LED</b> 1250lm LED Module	<b>27X</b>	2700K
	<b>30X</b>	3000K
	<b>35X</b>	3500K
	<b>40X</b>	4000K
	<b>CDX</b>	Comfort Dim (3100K to 2000K)
<i>Example: NIOC-24LED30X = 2" &amp; 4" Iolite Module, 1250lm / 3000K</i>		

2" & 4" IOLITE CAN-LESS TRIMS		
DESCRIPTION		FINISH
<b>NIOC-2RNB</b>	2" Round Bullnose	<b>HW</b> Haze / White
<b>NIOC-2RPH</b>	2" Round Pinhole	<b>HZMPW</b> Haze / MPW
<b>NIOC-2RNDNC</b>	2" Round Downlight	<b>MPW</b> Matte Powder White
<b>NIOC-2SNDNC</b>	2" Square Downlight	<b>WW</b> White
<b>NIOC-4RNB</b>	4" Round Bullnose	
<b>NIOC-4RPH</b>	4" Round Pinhole	
<b>NIOC-4RSLA</b>	4" Round Adjustable Slot	
<b>NIOC-4RNDNC</b>	4" Round Downlight	
<b>NIOC-4SNDNC</b>	4" Square Downlight	
<i>Example: NIOC-4SNDCHW = 4" Iolite Square Downlight, Haze / White</i>		

2" & 4" Iolite can-less downlights allow for small aperture lighting without any housing. The modular system is ordered separately, which allows users to field change both the trim and beam spread without the use of tools. Simply cut the ceiling, wire the junction box and insert the IC Air-Tight luminaire in the ceiling cavity.

**ELECTRICAL:**

**Voltage:** 120V  
**Lumens / Wattage:** 1250lm / 12W  
**Color Temperature:** 2700K, 3000K, 3500K, 4000K and Comfort Dim (3000K-1900K)  
**Color Rendering Index:** 90+ CRI  
**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.

**OPTICS:**

Three field-changeable optics are included with each LED module: narrow flood, spot and flood (pre-installed). Optional frosted and TIR optics are also available, see page 29.

**CONSTRUCTION:**

Die-cast aluminum trims are threaded to mount LED module securely and dissipate heat away from light source and meet air-tight requirements. IC rated for direct contact with thermal insulation.

**INSTALLATION:**

No housing is required, two tension steel spring clips secure luminaire to ceiling. Accommodates ceiling thickness up to 3/4".

**ACCESSORIES:** Trims can accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see page 29.

**LISTING & WARRANTY:**

- cULus Listed for Wet Location (NIOC-4RSLA rated for damp locations)
- ENERGY STAR certified
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- 5 Year Limited Warranty





# IOLITE DEDICATED COMMERCIAL AND RESIDENTIAL 1" HOUSINGS 600LM

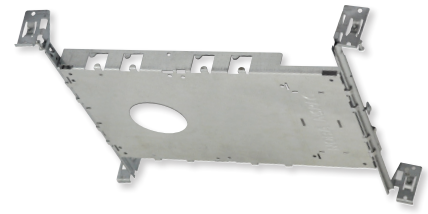
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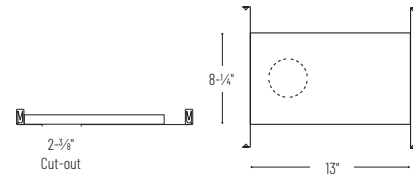
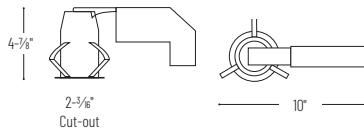
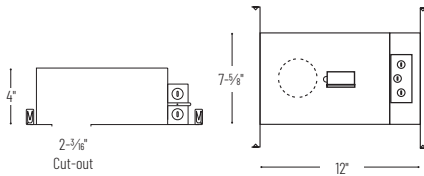
**NHIOICD-16 / NHIOICDCP-16**  
1" Iolite New Construction Housing



**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 HOUSINGS

HOUSING TYPE / WATTAGE	DRIVER / DIMMING	OPTIONAL EMERGENCY WIRING
<b>NHIOICD-16</b> IC Air-Tight New Construction, 600lm / 10W <b>NHIOICDCP-16</b> Chicago Plenum New Construction, 600lm / 10W	<b>LE3</b> 120V input; Triac / ELV Dimming <b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming <b>LUPEQ</b> 120/277V input; Lutron Hi-lume 0.1% EcoSystem <b>LUPEQ1</b> 120/277V input; Lutron Hi-lume 1% EcoSystem	<b>/PEM</b> Remote Emergency for LE3 and LE4
<b>NHRIOIC-16</b> IC Air-Tight Remodel, 600lm / 10W	<b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming	
<b>NHIOFK-1</b> 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 / 10W, 120V input; Triac/ELV dimming

1" Iolite Dedicated LED adjustable and non-adjustable downlights are available in square and round trims. The modular system allows users to field change both the trim and beam spread without the use of tools. Each module includes spot, narrow flood and flood optics.

### ELECTRICAL:

**Voltage:** 120V or 120-277V  
**Lumens / Wattage:** 600lm / 10W  
**Color Temperature:** 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim (3000K-1900K)  
**Color Rendering Index:** 90+ CRI  
**Dimming:** Triac, ELV or 0-10V

### COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 3000K, to a romantic and comfortable 1900K 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. Patented driver assembly allows driver to slide out for maintenance.

**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.

**Luminaire:** Die-cast aluminum trims are threaded to mount LED module securely and dissipate heat away from light source. Three field-changeable optics are included with each LED module: narrow flood, spot and flood. Optional frosted optics are also available, see page 29.

**EMERGENCY:** New construction housing is wired with connections for emergency battery installation. Requires top access & NEPK-07LEDUNV (Battery with remote test switch).

Note: CCEA housings are not compatible with emergency.

### INSTALLATION:

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

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

**ACCESSORIES:** Variety of housing and trim accessories are available on page 29.

### LISTING & WARRANTY:

- cULus Listed for Wet Location
- ENERGY STAR certified
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- ROHS compliant
- 5 Year Limited Warranty



# COMMERCIAL AND RESIDENTIAL IOLITE DEDICATED 600LM 1" BWF TRIMS

NEW CONSTRUCTION OR REMODEL HOUSING REQUIRED



**NI0B-1RNB**  
1" Round Bullnose  
Non-Adjustable  
BB, BZ, MPW, NN, WW



**NI0B-1SNB**  
1" Square Bullnose  
Non-Adjustable  
BB, BZ, MPW, NN, WW



**NI0B-1RNG**  
1" Round Reflector  
Non-Adjustable  
BB, BW, BZ, CHMPW,  
HW, MPW, NN, WW



**NI0B-1SNG**  
1" Square Reflector  
Non-Adjustable  
BB, BW, BZ, CHMPW,  
HW, MPW, NN, WW



**NI0B-1RPH**  
1" Round Pinhole  
Non-Adjustable  
BB, BMPW, HZMPW, MPW



**NI0B-1RSL**  
1" Round Slot Aperture  
30° Adjustable - New Const.  
15° Adjustable - Remodel  
BB, BMPW, HZMPW, MPW

## 1" IOLITE BWF TRIMS REQUIRES NH10ICD-16 OR NHR10IC-16 HOUSING

SERIES / SHAPE	TRIM TYPE	COLOR TEMPERATURE	FINISH	LUMENS / WATTAGE
<b>NI0B-1R</b> Round BWF <b>NI0B-1S</b> Square BWF	<b>NB</b> Bullnose <b>NG</b> Reflector <b>PH</b> Non-Adjustable Pinhole (round only) <b>SL</b> Adjustable Slot Aperture (round only)	<b>27X</b> 2700K <b>30X</b> 3000K <b>35X</b> 3500K <b>40X</b> 4000K <b>50X</b> 5000K <b>CDX</b> Comfort Dim*	<b>BB</b> Black / Black <b>BMPW</b> Black / Matte Powder White <b>BW</b> Black / White <b>BZ</b> Bronze / Bronze <b>CHMPW</b> Champagne Haze / Matte Powder White <b>HW</b> Haze / White <b>HZMPW</b> Haze / Matte Powder White <b>MPW</b> Matte Powder White <b>NN</b> Natural Metal <b>WW</b> White / White <i>Not all finishes available on all trims</i>	(blank) 600lm / 10W
		* 1" Comfort Dim uses a different dimming curve than 2" and 4" Comfort Dim		

Example: **NI0B-1RNG27XBZ** - 1" Round BWF Reflector, 2700K, Bronze Reflector / Bronze Flange, 600lm / 10W

## FINISHES



The iPOINT series are low voltage monopoints that require a 1" Iolite new construction or remodel housing. The series is adjustable and replicate an Iolite trim.

## 1" iPOINT REQUIRES NH10ICD-16 OR NHR10IC-16 HOUSING

FIXTURE TYPE / LUMENS	COLOR TEMPERATURE / CRI	FINISH
<b>NI0P-1RCY</b> Cylinder - 750lm / 10W	<b>27X</b> 2700K / 90 CRI <b>40X</b> 4000K / 90 CRI	<b>BB</b> Black Interior / Black Exterior <b>MPW</b> Matte Powder White Interior & Exterior
<b>NI0P-1RTC</b> Cone - 900lm / 10W	<b>27X</b> 2700K / 90 CRI <b>30X</b> 3000K / 90 CRI <b>40X</b> 4000K / 90 CRI	

Example: **NI0P-1RCY27XMPW** - 1" iPOINT Cylinder, 750lm / 10W, 2700K / 90 CRI, Matte Powder White



**NI0P-1RCY**  
1" iPOINT Cylinder  
BB, MPW

Shown with black insert (included with MPW)

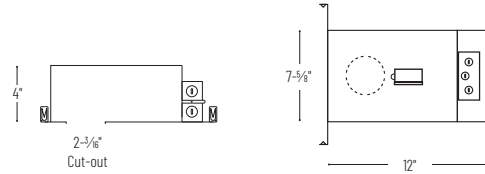


**NI0P-1RTC**  
1" iPOINT Cone  
BB, MPW

# IOLITE DEDICATED COMMERCIAL AND RESIDENTIAL 1" HOUSINGS 600LM



**NHIOICD-16 / NHIOICDCP-16**  
1" Iolite New Construction Housing



## 1" IOLITE HOUSINGS COMPATIBLE WITH NIO-1 AND NIOB-1 TRIMS

HOUSING TYPE / WATTAGE	DRIVER / DIMMING	OPTIONAL EMERGENCY WIRING
<b>NHIOICD-16</b> IC Air-Tight New Construction, 600lm / 10W	<b>LE3</b> 120V input; Triac / ELV Dimming <b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming <b>LUPEQ</b> 120/277V input; Lutron Hi-lume 0.1% EcoSystem <b>LUPEQ1</b> 120/277V input; Lutron Hi-lume 1% EcoSystem	<b>/PEM</b> Remote Emergency for LE3 and LE4
<b>NHIOICDCP-16</b> Chicago Plenum New Construction, 600lm / 10W	<b>LE3</b> 120V input; Triac / ELV Dimming <b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming	

Example: **NHIOICD-16LE3** - 1" New Construction Housing, 600lm / 10W, 120V input; Triac/ELV dimming

1" Iolite Dedicated LED adjustable and non-adjustable downlights are available in square and round trims. The modular system allows users to field change both the trim and beam spread without the use of tools. Each module includes spot, narrow flood and flood optics.

### ELECTRICAL:

**Voltage:** 120V or 120-277V  
**Lumens / Wattage:** 600lm / 10W  
**Color Temperature:** 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim (3000K-1900K)  
**Color Rendering Index:** 90+ CRI  
**Dimming:** Triac, ELV or 0-10V

### COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 3000K, to a romantic and comfortable 1900K on a gradual, even curve.

### CONSTRUCTION:

**Housing:** Shallow aluminum Air-Tight housing meets air-tight requirements. IC rated for direct contact with thermal insulation. Patented driver assembly allows driver to slide out for maintenance.  
**Luminaire:** Die-cast aluminum trims are threaded to mount LED module securely and dissipate heat away from light source. Three field-changeable optics are included with each LED module: narrow flood, spot and flood. Optional frosted optics are also available, see page 29.

**EMERGENCY:** New construction housing is wired with connections for emergency battery installation. Requires top access & NEPK-07LEDUNV (Battery with remote test switch).

*Note: CCEA housings are not compatible with emergency.*

### INSTALLATION:

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

**ACCESSORIES:** Variety of housing and trim accessories are available on page 29.

### LISTING & WARRANTY:

- cULus Listed for Wet Location
- ENERGY STAR certified
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- ROHS compliant
- 5 Year Limited Warranty





# COMMERCIAL AND RESIDENTIAL IOLITE DEDICATED 600LM 1" NTF TRIMS

NEW CONSTRUCTION HOUSING REQUIRED



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



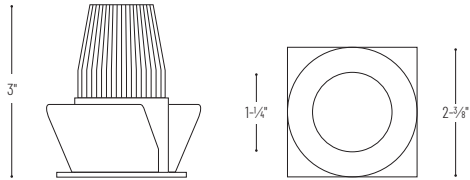
**NIO-1SNB**  
1" Square Bullnose  
Non-Adjustable  
BZ, MPW, NN, WW



**NIO-1RNG**  
1" Round Reflector  
Non-Adjustable  
BW, BZ, HW, MPW, NN, WW



**NIO-1SNG**  
1" Square Reflector  
Non-Adjustable  
BW, BZ, HW, MPW, NN, WW



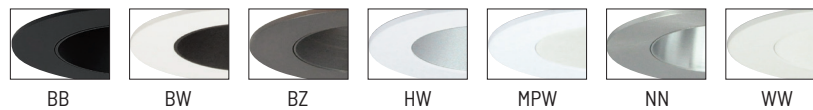
1" NTF Iolite trims feature an extremely low profile that blends seamlessly with the ceiling. **1" NTF Iolite trims are compatible only with new construction housings.**

## 1" IOLITE NTF TRIMS NON-ADJUSTABLE · REQUIRES NH10ICD-16 HOUSING

SERIES / SHAPE	TRIM TYPE	COLOR TEMPERATURE	FINISH	LUMENS / WATTAGE
<b>NIO-1R</b> Round NTF <b>NIO-1S</b> Square NTF	<b>NB</b> Bullnose <b>NG</b> Reflector	<b>27X</b> 2700K <b>30X</b> 3000K <b>35X</b> 3500K <b>40X</b> 4000K <b>50X</b> 5000K <b>CDX</b> Comfort Dim*	<b>BB</b> Black / Black <b>BW</b> Black / White <b>BZ</b> Bronze / Bronze <b>HW</b> Haze / White <b>MPW</b> Matte Powder White <b>NN</b> Natural Metal <b>WW</b> White / White <i>Not all finishes available on all trims</i>	(blank) 600lm / 10W
		* 1" Comfort Dim uses a different dimming curve than 2" and 4" Comfort Dim		

Example: **NIO-1RNB27XBZ** - 1" Round NTF Bullnose, 2700K, Bronze Finish

## FINISHES



## ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between module and die-cast trim. See page 25 for full details.



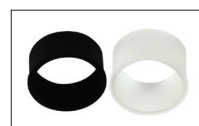
Ceiling Extension Collar



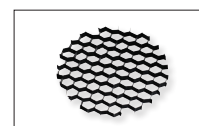
Frosted Filter-Reflector



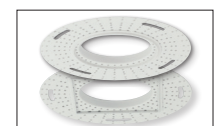
Translucent Deco Collar



Opaque Collar Snoot

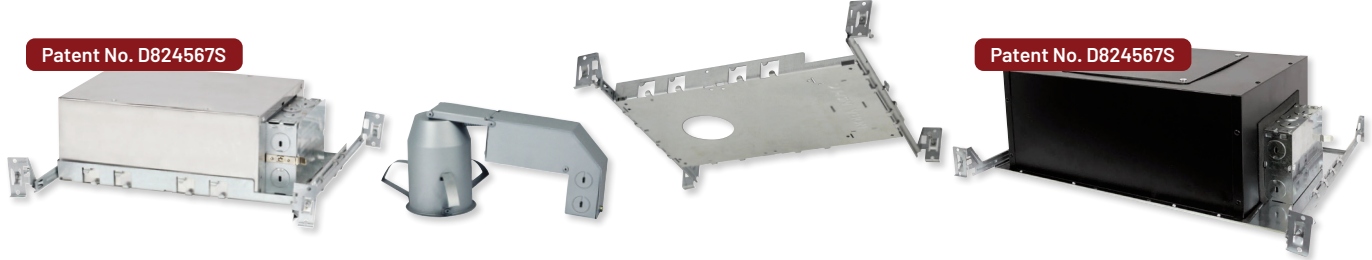


Hex Cell Louver



Flush Mount Mud Ring

# IOLITE DEDICATED COMMERCIAL AND RESIDENTIAL 2" HOUSINGS 1000LM TO 2500LM

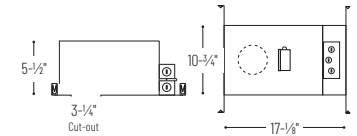
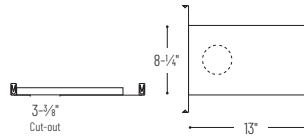
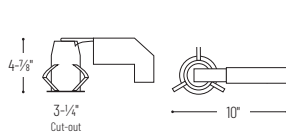
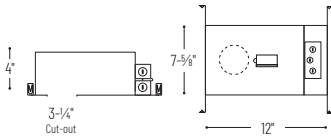


**NHIOICD-28 / NHIOICDCP-28**  
1000lm New Construction Housing

**NHRIOIC-28**  
1000lm Remodel Housing

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

**NHIOICD-215 / NHIOICD-220 / NHIOICD-225**  
**NHIOICDCP-215 / NHIOICDCP-220 / NHIOICDCP-225**  
1500lm to 2500lm New Construction Housing



## 2" IOLITE HOUSINGS

HOUSING TYPE / LUMENS / WATTAGE	DRIVER / DIMMING	OPTIONAL EMERGENCY
<b>NHIOICD-28</b> IC Air-Tight New Construction, 1000lm / 14W	<b>LE3</b> 120V input; Triac / ELV Dimming	<b>/PEM</b> Pre-Wired for Remote Emergency (not compatible with NHIOICDCP)
<b>NHIOICDCP-28</b> Chicago Plenum New Construction, 1000lm / 14W	<b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming	
	<b>LUPEQ</b> 120/277V input; Lutron Hi-lume 0.1% EcoSystem	
<b>NHIOICD-215</b> IC Air-Tight New Construction, 1500lm / 20W	<b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming	
<b>NHIOICDCP-215</b> Chicago Plenum New Construction, 1500lm / 20W	<b>LUPEQ</b> 120/277V input; Lutron Hi-lume 0.1% EcoSystem	
<b>NHIOICD-220</b> IC Air-Tight New Construction, 2000lm / 24W	<b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming	
<b>NHIOICDCP-220</b> Chicago Plenum New Construction, 2000lm / 24W		
<b>NHIOICD-225</b> IC Air-Tight New Construction, 2500lm / 28W		
<b>NHIOICDCP-225</b> Chicago Plenum New Construction, 2500lm / 28W		
<b>NHRIOIC-28</b> IC Air-Tight Remodel, 1000lm / 14W	<b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming	
<b>NHIOFK-2</b> New Construction Frame-In for 2" Iolite Remodel Housing - Allows access to junction box from below the ceiling		

Example: **NHIOICD-220LE4** - 2" IC Air-Tight New Construction Housing, 2000lm / 24W, 120-277V input; Triac/ELV/0-10V dimming

2" Iolite 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 reflector and beam spread without the use of tools. Each module includes spot, narrow flood and an installed flood optics (TIR optics are available).

### ELECTRICAL:

**Voltage:** 120V or 120-277V

**Lumens / Wattage:**

1000lm / 14W, 1500lm / 20W, 2000lm / 24W, 2500lm / 28W

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

**Color Rendering Index:** 90+ CRI

**Dimming:** Triac, ELV, 0-10V or Lutron EcoSystem

### 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.

### CONSTRUCTION:

**New Construction Housing:** 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:** Steel air-tight 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.

**Luminaire:** Die-cast aluminum trims are threaded to the LED module to dissipate heat away from light source. Three field-changeable optics are included with each LED module: spot, narrow flood and flood. Premium 10° narrow spot optic assembly also available (see page 9).

**EMERGENCY:** Housing can be specified with connections for emergency battery installation. Requires top access. Must specify battery with remote test switch separately, NEPK-07LEDUNV.

Note: CCEA housings are not compatible with emergency.

### 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.

**ACCESSORIES:** Variety of housing and trim accessories are available on page 29.

### LISTING & WARRANTY:

- cULus Listed for Wet Location (Adj. rated for Damp)
- ENERGY STAR certified
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- ROHS compliant
- FCC compliant
- 5 Year Limited Warranty



# COMMERCIAL AND RESIDENTIAL IOLITE DEDICATED 1000LM TO 2500LM 2" TRIMS

NEW CONSTRUCTION OR REMODEL HOUSING REQUIRED



**NIOB-2RC Round / NIOB-2SC Square**  
2" Adjustable Cone Reflector  
BB, BW, BZ, CHMPW, CMPW,  
HW, HZMPW, MPW, NN, WW



**NIOB-2RG Round / NIOB-2SG Square**  
2" Adjustable Surface Gimbal  
BB, BZ, MPW, NN, WW



**NIOB-2RPHA**  
2" Round Adjustable Pinhole  
BB, BMPW, HZMPW, MPW, W



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



**NIOB-2RNB Round / NIOB-2SNB Square**  
2" Non-Adjustable Bullnose  
BB, BZ, MPW, NN, WW



**NIOB-2RND Round / NIOB-2SND Square**  
2" Non-Adjustable Reflector w/Round Aperture  
BB, BW, BZ, CHMPW, CMPW,  
HW, HZMPW, MPW, NN, WW



**NIOB-2RSL**  
2" Round Adjustable Slot Aperture  
BB, BMPW, HZMPW, MPW



**NIOB-2SND SQ**  
2" Square Non-Adjustable Reflector  
w/Square Aperture  
BB, BW, BZ, CHMPW,  
HW, HZMPW, MPW, WW

## 2" IOLITE TRIMS REQUIRES NHIOICD-2, NHIOICDCP-2 OR NHRIOIC-2 HOUSING

SERIES / SHAPE	TRIM TYPE	COLOR TEMPERATURE	FINISH	LUMENS / WATTAGE
<b>NIOB-2R</b> Round <b>NIOB-2S</b> Square	<b>C</b> Adjustable Cone Reflector	<b>27X</b> 2700K	<b>BB</b> Black / Black <b>BMPW</b> Black / Matte Powder White <b>BW</b> Black / White <b>BZ</b> Bronze / Bronze <b>CHMPW</b> Champagne Haze / MPW <b>CMPW</b> Specular Clear / MPW <b>HW</b> Haze / White <b>HZMPW</b> Haze / Matte Powder White <b>MPW</b> Matte Powder White <b>NN</b> Natural Metal <b>WW</b> White / White  <i>Not all finishes available on all trims</i>	<b>/10</b> 1000lm / 14W <b>/HL</b> 1500-2500lm (specified by housing)  Comfort Dim available in 800lm only
	<b>G</b> Adjustable Gimbal	<b>30X</b> 3000K		
	<b>NB</b> Non-Adjustable Bullnose	<b>35X</b> 3500K		
	<b>NDC</b> Non-Adj. Reflector w/Round Aperture	<b>40X</b> 4000K		
	<b>NDSO</b> Non-Adj. Reflector w/Square Aperture (square only)	<b>50X</b> 5000K		
	<b>PHA</b> Adjustable Pinhole (round only)	<b>CDX</b> Comfort Dim* (800lm only)		
	<b>PH</b> Non-Adjustable Pinhole (round only)			
<b>SL</b> Adjustable Slot Aperture (round only)				
		<i>*1" Comfort Dim uses a different dimming curve than 2" and 4" Comfort Dim</i>		

Example: **NIOB-2RC27XCMPW/10** - 2" Round Adjustable Cone Reflector, 2700K, Specular Clear Reflector / Matte Powder White Flange, 1000lm / 14W

## FINISHES



iPOINT series are low voltage monopoints that require a **2" lolite new construction or remodel housing**. The series is adjustable and replicate an lolite trim.

## 2" iPOINT REQUIRES NHIOICD-28 OR NHRIOIC-28 HOUSING

FIXTURE TYPE / LUMENS	COLOR TEMPERATURE / CRI	FINISH
<b>NIOIP-2RCY</b> Cylinder - 1000lm / 14W	<b>27X</b> 2700K / 90 CRI	<b>BB</b> Black Interior / Black Exterior
	<b>30X</b> 3000K / 90 CRI	
	<b>40X</b> 4000K / 90 CRI	
<b>NIOIP-2RTC</b> Cone - 1200lm / 14W	<b>27X</b> 2700K / 90 CRI	<b>BB</b> Black Interior / Black Exterior <b>MPW</b> Matte Powder White Interior & Exterior
	<b>30X</b> 3000K / 90 CRI	
	<b>40X</b> 4000K / 90 CRI	

Example: **NIOIP-2RCY27XMPW** - 2" iPOINT Cylinder, 2700K / 90 CRI, Matte Powder White



**NIOIP-2RCY**  
2" iPOINT Cylinder  
BB



**NIOIP-2RTC**  
2" iPOINT Cone  
BB, MPW

# IOLITE DEDICATED COMMERCIAL AND RESIDENTIAL 2" HOUSINGS 1000LM

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 luminaires into the ring.

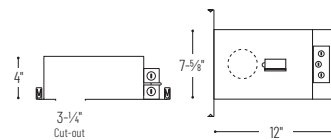
## Iolite Trimless requires three parts:

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

Patent No. D824567S



NHIOICD-28 / NHIOICDP-28  
1000lm New Construction Housing



## 1. 2" IOLITE HOUSINGS REQUIRES MUD RING AND TRIMLESS REFLECTOR

HOUSING TYPE / LUMENS / WATTAGE	DRIVER / DIMMING	OPTIONAL EMERGENCY
<b>NHIOICD-28</b> IC Air-Tight New Construction, 1000lm / 14W	<b>LE3</b> 120V input; Triac / ELV Dimming	<b>/PEM</b> Pre-Wired for Remote Emergency (not compatible with NHIOICDP)
<b>NHIOICDP-28</b> Chicago Plenum New Construction, 1000lm / 14W	<b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming	
	<b>LUPEQ</b> 120/277V input; Lutron Hi-lume 0.1% EcoSystem <i>EcoSystem on hold by Lutron until further notice</i>	

Example: **NHIOICD-28LE3** - 2" IC Air-Tight New Construction Housing, 1000lm / 14W, 120V input

### ELECTRICAL:

**Voltage:** 120V or 120-277V  
**Lumens / Wattage:** 1000lm / 14W  
**Color Rendering Index:** 90+ CRI  
**Color Temperature:** 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim (3100K-2000K)  
**Dimming:** Triac, ELV, 0-10V or Lutron EcoSystem

### 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.

### CONSTRUCTION:

**Housing:** 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.  
**Luminaire:** Die-cast aluminum trims are threaded to the LED module to dissipate heat away from light source. Three field-changeable optics are included with each LED module: spot, narrow flood and flood. Premium 10° narrow spot optic assembly also available (see page 9).

**EMERGENCY:** Housing can be specified with connections for emergency battery installation. Requires top access. Must specify battery with remote test switch separately, NEPK-07LEDUNV.  
*Note: CCEA housings are not compatible with emergency.*

### INSTALLATION:

**Housing:** 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.  
**Mud Ring:** Round trimless mud ring required (ordered separately).

**ACCESSORIES:** Variety of housing and trim accessories are available on page 25.

### LISTING & WARRANTY:

- cULus Listed for Wet Location (Adj. rated for Damp)
- ENERGY STAR certified
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- ROHS compliant
- FCC compliant
- 5 Year Limited Warranty



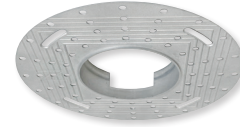


# COMMERCIAL AND RESIDENTIAL IOLITE DEDICATED 1000LM 2" TRIMLESS HOUSING AND TRIMLESS MUD RING REQUIRED

## 2. 2" IOLITE TRIMLESS MUD RING REQUIRES HOUSING & TRIMLESS

SERIES / SHAPE

**NIO-TLMR-2RA** Round Trimless Mud Ring



**NIO-TLMR-2RA** Round  
2" Trimless Mud Ring



**NIO-2RTLTA**  
2" Round Trimless Adjustable  
15° Adjustable  
BB, BW, BZ, CH, CHMPW,  
HW, HZ, HZMPW, MPW, WW



**NIO-2RTLND**  
2" Round Trimless Downlight  
Non-Adjustable  
BB, BZ, CH, HZ, MPW, WW



**BB**  
Black

**BW**  
Black / White

**BZ**  
Bronze

**CH**  
Champagne Haze

**CHMPW**  
Champagne Haze /  
Matte Powder White

**HW**  
Haze / White

**HZ**  
Haze

**HZMPW**  
Haze /  
Matte Powder White

**MPW**  
Matte Powder White

**WW**  
White

## 3. 2" IOLITE TRIMLESS REQUIRES HOUSING AND TRIMLESS MUD RING

SERIES / SHAPE	COLOR TEMPERATURE	FINISH	LUMENS / WATTAGE
<b>NIO-2RTLTA</b> Round Trimless Adjustable	<b>27X</b> 2700K	<b>BB</b> Black	<b>/10</b> 1000lm / 14W Comfort Dim available in 800lm only
<b>NIO-2RTLND</b> Round Trimless Downlight	<b>30X</b> 3000K	<b>BW</b> Black / White	
	<b>35X</b> 3500K	<b>BZ</b> Bronze	
	<b>40X</b> 4000K	<b>CH</b> Champagne Haze	
	<b>50X</b> 5000K	<b>CHMPW</b> Champagne Haze / Matte Powder White	
	<b>CDX</b> Comfort Dim* (800lm only)	<b>HW</b> Haze / White	
		<b>HZ</b> Haze	
		<b>HZMPW</b> Haze / Matte Powder White	
		<b>MPW</b> Matte Powder White	
		<b>WW</b> White	
		Not all finishes available on all types	

\*1" Comfort Dim uses a different dimming curve than 2" and 4" Comfort Dim

Example: **NIO-2RTLND30XMPW/10** - 2" Round Trimless Downlight, 3000K, Matte Powder White, 1000lm / 14W

# IOLITE DEDICATED COMMERCIAL AND RESIDENTIAL 4" HOUSINGS 1000LM TO 2500LM



Patent No. D824567S

**NHIOICD-48 / NHIOICDCP-48**  
1000lm New Construction Housing

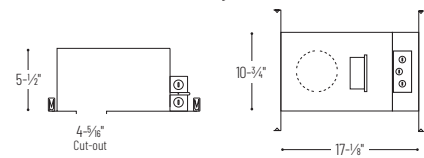
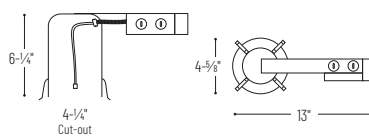
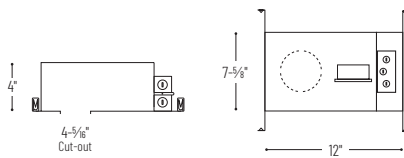


**NHRIOIC-48**  
1000lm Remodel Housing



Patent No. D824567S

**NHIOICD-415 / NHIOICD-420 / NHIOICD-425**  
**NHIOICDCP-415 / NHIOICDCP-420 / NHIOICDCP-425**  
1500lm to 2500lm New Construction Housing



## 4" IOLITE HOUSINGS

HOUSING TYPE / LUMENS / WATTAGE	DRIVER / DIMMING	OPTIONAL EMERGENCY
<b>NHIOICD-48</b> IC Air-Tight New Construction, 1000lm / 14W <b>NHIOICDCP-48</b> Chicago Plenum New Construction, 1000lm / 14W	<b>LE3</b> 120V input; Triac / ELV Dimming <b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming <b>LUPEQ</b> 120/277V input; Lutron Hi-lume 0.1% EcoSystem <i>EcoSystem on hold by Lutron until further notice</i>	<b>/PEM</b> Pre-Wired for Remote Emergency (not compatible with NHIOICDCP)
<b>NHIOICD-415</b> IC Air-Tight New Construction, 1500lm / 20W <b>NHIOICDCP-415</b> Chicago Plenum New Construction, 1500lm / 20W	<b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming <b>LUPEQ</b> 120/277V input; Lutron Hi-lume 0.1% EcoSystem <i>EcoSystem on hold by Lutron until further notice</i>	
<b>NHIOICD-420</b> IC Air-Tight New Construction, 2000lm / 24W <b>NHIOICDCP-420</b> Chicago Plenum New Construction, 2000lm / 24W <b>NHIOICD-425</b> IC Air-Tight New Construction, 2500lm / 28W <b>NHIOICDCP-425</b> Chicago Plenum New Construction, 2500lm / 28W	<b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming	
<b>NHRIOIC-48</b> IC Air-Tight Remodel, 1000lm / 14W	<b>LE3A</b> 120V input; Triac / ELV Dimming <b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming	

Example: **NHIOICD-425LE4** - 4" IC Air-Tight New Construction Housing, 2500lm / 28W, 120-277V input; Triac/ELV/0-10V dimming

### ELECTRICAL:

**Voltage:** 120V or 120-277V

**Lumens / Wattage:**

1000lm / 14W, 1500lm / 20W, 2000lm / 24W, 2500lm / 28W

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

**Color Rendering Index:** 90+ CRI

**Dimming:** Triac, ELV, 0-10V or Lutron EcoSystem

### 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.

### CONSTRUCTION:

**New Construction Housing:** IC Air-Tight housings are rated for direct contact with insulation. New construction housings include patented driver assembly, requiring no tools for removal.

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

**Luminaire:** Die-cast aluminum trims are threaded to the LED module to dissipate heat away from light source. Three field-changeable optics are included with each LED module: spot, narrow flood and flood. Premium 10° narrow spot optic assembly also available (see page 9).

**EMERGENCY:** Housing can be specified with connections for emergency battery installation. Requires top access. Must specify battery with remote test switch separately, NEPK-07LEDUNV.

Note: CCEA housings are not compatible with emergency.

### 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.

**ACCESSORIES:** Variety of housing and trim accessories are available on page 25.

### LISTING & WARRANTY:

- cULus Listed for Wet Location (Adj. rated for Damp)
- ENERGY STAR certified
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- ROHS compliant
- FCC compliant
- 5 Year Limited Warranty



NORA

# COMMERCIAL AND RESIDENTIAL IOLITE DEDICATED 1000LM TO 2500LM 4" TRIMS

NEW CONSTRUCTION OR REMODEL HOUSING REQUIRED



**NIO-4RC Round / NIO-4SC Square**  
4" Adjustable Cone Reflector  
BB, BW, BZ, CHMPW, CMPW,  
HW, HZMPW, MPW, NN, WW



**NIO-4RG Round / NIO-4SG Square**  
4" Adjustable Gimbal  
BB, BZ, MPW, NN, WW



**NIO-4RPHA**  
4" Round Adjustable Pinhole  
BB, BMPW, HZMPW, MPW, W



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



**NIO-4RD Round / NIO-4SD Square**  
4" Adjustable Deep Reflector  
BB, BW, BZ, CHMPW, HW,  
HZMPW, MPW, NN, WW



**NIO-4RW Round / NIO-4SW Square**  
4" Non-Adjustable Wall Wash  
BB, MPW, WW  
*Not compatible w/ Remodel housings  
or 2500lm housing*



**NIO-4RSL**  
4" Round Adjustable Slot Aperture  
BB, BMPW, HZMPW, MPW



**NIO-4SDSQ**  
4" Square Adjustable  
BB, BW, BZ, CHMPW, HN,  
HW, HZMPW, MPW, WW



**NIO-4RNB Round / NIO-4SNB Square**  
4" Non-Adjustable Bullnose  
BB, BZ, MPW, NN, WW



**NIO-4RNDC Round / NIO-4SNDC Square**  
4" Non-Adjustable Reflector w/Round Aperture  
BB, BW, BZ, CHMPW, CMPW,  
HW, HZMPW, MPW, NN, WW



**NIO-4SNSQ**  
4" Square Non-Adjustable Reflector  
w/Square Aperture  
BB, BW, BZ, CHMPW, HN,  
HW, HZMPW, MPW, WW

## 4" IOLITE TRIMS REQUIRES NHIOICD-4, NHIOICDCP-4 OR NHRIOIC-4 HOUSING

SERIES / SHAPE	TRIM TYPE	COLOR TEMPERATURE	FINISH	LUMENS / WATTAGE
<b>NIO-4R</b> Round <b>NIO-4S</b> Square	<b>C</b> Adjustable Cone Reflector <b>D</b> Adjustable Deep Reflector w/ Round Aperture <b>G</b> Adjustable Gimbal <b>DSQ</b> Square Adjustable (square only) <b>NB</b> Non-Adjustable Bullnose <b>NDC</b> Non-Adj. Reflector w/Round Aperture <b>NDSQ</b> Non-Adj. Reflector w/Square Aperture (square only) <b>PHA</b> Adjustable Pinhole (round only) <b>PH</b> Non-Adjustable Pinhole (round only) <b>SL</b> Adjustable Slot Aperture (round only) <b>W</b> Non-Adjustable Wall Wash	<b>27X</b> 2700K <b>30X</b> 3000K <b>35X</b> 3500K <b>40X</b> 4000K <b>50X</b> 5000K <b>CDX</b> Comfort Dim* (800lm only)	<b>BB</b> Black / Black <b>BMPW</b> Black / Matte Powder White <b>BW</b> Black / White <b>BZ</b> Bronze / Bronze <b>CHMPW</b> Champagne Haze / MPW <b>CMPW</b> Specular Clear / MPW <b>HN</b> Haze / Natural Metal <b>HW</b> Haze / White <b>HZMPW</b> Haze / Matte Powder White <b>MPW</b> Matte Powder White <b>NN</b> Natural Metal <b>WW</b> White / White <i>Not all finishes available on all reflectors</i>	<b>/IO</b> 1000lm / 14W <b>/HL</b> 1500-2500lm (specified by housing)  Comfort Dim available in 800lm only
		<i>* 1" Comfort Dim uses a different dimming curve than 2" and 4" Comfort Dim</i>		

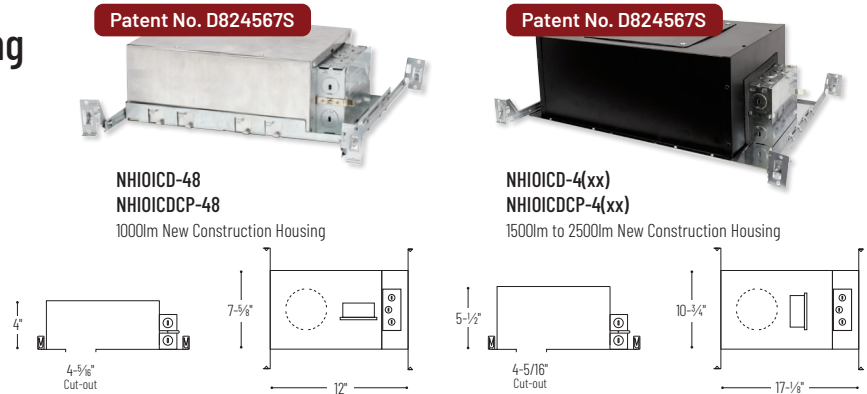
Example: **NIO-4SG30XNN/IO** - 4" Square Adjustable Surface Gimbal, 3000K, Natural Metal Gimbal / Natural Metal Flange, 1000lm / 14W

# IOLITE DEDICATED COMMERCIAL AND RESIDENTIAL 4" HOUSINGS 1000LM TO 2500LM

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 luminaire into the ring.

Iolite Trimless requires three parts:

1. New Construction Housing
2. Trimless Mud Ring
3. Trimless Luminaire



**1. 4" IOLITE HOUSING REQUIRES MUD RING AND TRIMLESS REFLECTOR**

HOUSING TYPE / LUMENS / WATTAGE	DRIVER / DIMMING	OPTIONAL EMERGENCY
<b>NHIOICD-48</b> IC Air-Tight New Construction, 1000lm / 14W <b>NHIOICDCP-48</b> Chicago Plenum New Construction, 1000lm / 14W	<b>LE3</b> 120V input; Triac / ELV Dimming <b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming <b>LUPEQ</b> 120/277V input; Lutron Hi-lume 0.1% EcoSystem	<b>/PEM</b> Pre-Wired for Remote Emergency (not compatible with NHIOICDCP)
<b>NHIOICD-415</b> IC Air-Tight New Construction, 1500lm / 20W <b>NHIOICDCP-415</b> Chicago Plenum New Construction, 1500lm / 20W	<b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming <b>LUPEQ</b> 120/277V input; Lutron Hi-lume 0.1% EcoSystem	
<b>NHIOICD-420</b> IC Air-Tight New Construction, 2000lm / 24W <b>NHIOICDCP-420</b> Chicago Plenum New Construction, 2000lm / 24W <b>NHIOICD-425</b> IC Air-Tight New Construction, 2500lm / 28W <b>NHIOICDCP-425</b> Chicago Plenum New Construction, 2500lm / 28W	<b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming	

*Example: NHIOICD-425LE4 - 4" IC Air-Tight New Construction Housing, 2500lm / 28W, 120-277V input; Triac / ELV / 0-10V*

**ELECTRICAL:**  
**Voltage:** 120V or 120-277V  
**Lumens / Wattage:** 1000lm / 14W, 1500lm / 20W, 2000lm / 24W, 2500lm / 28W  
**Color Rendering Index:** 90+ CRI  
**Color Temperature:** 2700K, 3000K, 3500K, 4000K, 5000K and Comfort Dim (3100K-2000K)  
**Dimming:** Triac, ELV, 0-10V or Lutron EcoSystem

**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.

**CONSTRUCTION:**  
**Housing:** 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.  
**Luminaire:** Die-cast aluminum trims are threaded to the LED module to dissipate heat away from light source. Three field-changeable optics are included with each LED module: spot, narrow flood and flood. Premium 10° narrow spot optic assembly also available (see page 9).

**EMERGENCY:** Housing can be specified with connections for emergency battery installation. Requires top access. Must specify battery with remote test switch separately, NEPK-07LEDUNV.  
*Note: CCEA housings are not compatible with emergency.*

**INSTALLATION:**  
**Housing:** 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.  
**Mud Ring:** Round or square trimless mud ring required (ordered separately).

**LISTING & WARRANTY:**

- cULus Listed for Wet Location (Adj. rated for Damp)
- ENERGY STAR certified
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- ROHS compliant
- FCC compliant
- 5 Year Limited Warranty





# COMMERCIAL AND RESIDENTIAL IOLITE DEDICATED

## 1000LM TO 2500LM 4" TRIMLESS

HOUSING AND TRIMLESS MUD RING REQUIRED

### 2. 4" IOLITE MUD RINGS

REQUIRES HOUSING & TRIMLESS

SERIES / SHAPE

- NIO-TLMR-4RA** Round Trimless Mud Ring
- NIO-TLMR-4SA** Square Trimless Mud Ring



**NIO-TLMR-4RA** Round  
4" Trimless Mud Ring

**NIO-TLMR-4SA** Square  
4" Trimless Mud Ring



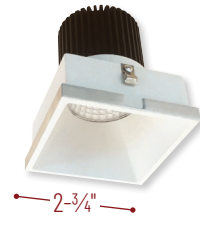
**NIO-4RTLTA**  
4" Round Trimless Adjustable  
35° Adj. (1000lm)  
24° Adj. (1500-2500lm)  
BB, BW, BZ, CH, CHMPW,  
HW, HZ, HZMPW, MPW, WW



**NIO-4RTSLA**  
4" Round Trimless Slot Adjustable  
35° Adj. (1000lm only)  
BB, BZ, CH, HZ, MPW, WW  
*Not compatible w/ High Lumen housings*



**NIO-4RTLNDNC**  
4" Round Trimless Downlight  
Non-Adjustable (1000-2500lm)  
BB, BZ, HZ, MPW, WW



**NIO-4STLNDNC**  
4" Square Trimless Downlight  
Non-Adjustable (1000lm only)  
BB, BZ, CH, HZ, MPW, WW  
*Not compatible w/ High Lumen housings*



### 3. 4" IOLITE TRIMLESS

REQUIRES HOUSING AND TRIMLESS MUD RING

SERIES / SHAPE / TYPE	COLOR TEMPERATURE	FINISH	LUMENS / WATTAGE
<b>NIO-4RTLTA</b> Round Trimless Adjustable	<b>27X</b> 2700K	<b>BB</b> Black	<b>/10</b> 1000lm / 14W
<b>NIO-4RTSLA</b> Round Trimless Slot Adjustable (1000lm only)	<b>30X</b> 3000K	<b>BW</b> Black / White	<b>/HL</b> 1500-2500lm (specified by housing)
<b>NIO-4RTLNDNC</b> Round Trimless Downlight	<b>35X</b> 3500K	<b>BZ</b> Bronze	Comfort Dim available in 800lm only
<b>NIO-4STLNDNC</b> Square Trimless Downlight (1000lm only)	<b>40X</b> 4000K	<b>CH</b> Champagne Haze	
	<b>50X</b> 5000K	<b>CHMPW</b> Champagne Haze / Matte Powder White	
	<b>CDX</b> Comfort Dim* (800lm only)	<b>HW</b> Haze / White	
		<b>HZ</b> Haze	
		<b>HZMPW</b> Haze / Matte Powder White	
		<b>MPW</b> Matte Powder White	
		<b>WW</b> White	

\* 1" Comfort Dim uses a different dimming curve than 2" and 4" Comfort Dim  
Not all finishes available on all types

Example: **NIO-4RTLNDNC30XMPW/HL** - 4" Round Trimless Reflector, 3000K, Matte Powder White Reflector, 1500-2500lm (specified by housing)

Flange accessory allows trimless to be used with remodel and new construction housings, **no mud plate required.**

#### FLANGE ACCESSORY

DESCRIPTION	FINISH
<b>NIO-4RTFA</b> Flange for Round Trimless Compatible with NIO-4RTSLA & NIO-4RTLNDNC only	<b>BB</b> Black <b>BZ</b> Bronze <b>CH</b> Champagne Haze <b>HZ</b> Haze <b>MPW</b> Matte Powder White <b>WH</b> White

Example: **NIO-4RTFAMPW** - Flange Accessory, Matte Powder White finish



**NIO-4RTFA**  
Flange Accessory

# IOLITE PLUS COMMERCIAL AND RESIDENTIAL

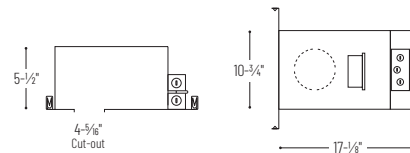
## 4" HOUSINGS 1500LM TO 2500LM

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 luminaire into the ring.



Iolite PLUS Trimless requires three parts:

1. New Construction Housing
2. PLUS Trimless Mud Ring
3. PLUS Trimless Luminaire



### 1. 4" IOLITE HOUSING REQUIRES PLUS MUD RING AND PLUS TRIMLESS REFLECTOR

TRIM SHAPE / HOUSING TYPE	LUMENS / WATTAGE	DRIVER / DIMMING	OPTIONAL EMERGENCY
<b>NHIOICD-4</b> Round ICAT New Construction	<b>15</b> 1500lm / 20W	<b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming <b>LUPEO</b> 120/277V input; Lutron Hi-Lume Premier 0.1% Ecosystem with Soft-On, Fade-to-Black	<b>/PEM</b> Pre-Wired for Remote Emergency (not compatible with NHIOICDCP)
<b>NHIOICD-4PS</b> Square ICAT New Construction			
<b>NHIOICDCP-4</b> Round Chicago Plenum			
<b>NHIOICDCP-4PS</b> Square Chicago Plenum			
<b>NHIOICD-4</b> Round ICAT New Construction	<b>20</b> 2000lm / 24W	<b>LE4</b> 120-277V input; Triac / ELV / 0-10V Dimming	
<b>NHIOICD-4PS</b> Square ICAT New Construction	<b>25</b> 2500lm / 28W		
<b>NHIOICDCP-4</b> Round Chicago Plenum			
<b>NHIOICDCP-4PS</b> Square Chicago Plenum			

Example: **NHIOICD-4PS15LE4** - 4" Iolite PLUS New Construction Housing, 1500lm / 20W, 120V input; Triac/ELV dimming

Iolite PLUS introduces four larger 4" round or square trimless luminaires. Square PLUS requires a new dedicated housing.

**ELECTRICAL:**

**Voltage:** 120-277V

**Lumens / Wattage:**

1500lm / 20W, 2000lm / 24W, 2500lm / 28W

**Color Rendering Index:** 90+ CRI

**Color Temperature:** 2700K, 3000K, 3500K, 4000K, 5000K

**Dimming:** Triac, ELV, 0-10V or Lutron EcoSystem

**CONSTRUCTION:**

**Housing:** 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.

**Luminaire:** Die-cast aluminum trims are threaded to mount LED module securely and dissipate heat away from light source. Three field-changeable TIR optics are included with each LED module: spot, narrow flood and flood.

**EMERGENCY:** Housing can be specified with connections for emergency battery installation. Requires top access. Must specify battery with remote test switch separately, NEPK-07LEDUNV.

Note: CCEA housings are not compatible with emergency.

**INSTALLATION:**

**Housing:** 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.

**Mud Ring:** Round or square trimless mud ring required (ordered separately).

**LISTING & WARRANTY:**

- cULus Listed for Damp Location
- ENERGY STAR certified
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- ROHS compliant
- FCC compliant
- 5 Year Limited Warranty



# COMMERCIAL AND RESIDENTIAL IOLITE PLUS

## 1500LM TO 2500LM 4" TRIMLESS

HOUSING AND TRIMLESS MUD RING REQUIRED

### 2. 4" IOLITE PLUS MUD RINGS

REQUIRES HOUSING & PLUS TRIMLESS

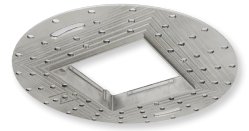
SERIES / SHAPE

**NIO-TLMR-4PR** PLUS Round Trimless Mud Ring

**NIO-TLMR-4PS** PLUS Square Trimless Mud Ring



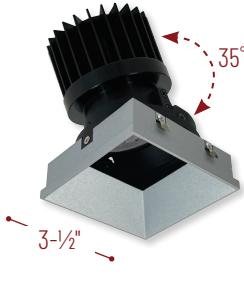
**NIO-TLMR-4PR** Round  
4" PLUS Trimless Mud Ring  
Die-Cast Aluminum



**NIO-TLMR-4PS** Square  
4" PLUS Trimless Mud Ring  
Die-Cast Aluminum



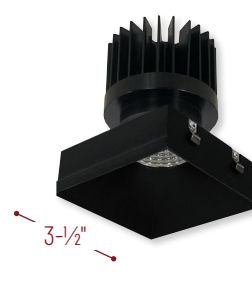
**NIO-4PRTLA**  
4" PLUS Round Trimless Adjustable  
Tilt: 35° / Rotation: 359°  
BB, BZ, CH, HZ, MPW, WW



**NIO-4PSTLA**  
4" PLUS Square Trimless Adjustable  
Tilt: 35° / Rotation: 359°  
BB, BZ, CH, HZ, MPW, WW



**NIO-4PRTLND**  
4" PLUS Round Trimless Downlight  
Non-Adjustable  
BB, BZ, CH, HZ, MPW, WW



**NIO-4PSTLND**  
4" PLUS Square Trimless Downlight  
Non-Adjustable  
BB, BZ, CH, HZ, MPW, WW



**BB**  
Black



**BZ**  
Bronze



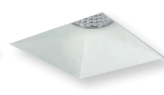
**CH**  
Champagne Haze



**HZ**  
Haze



**MPW**  
Matte Powder White



**WW**  
White

### 3. 4" IOLITE PLUS TRIMLESS REQUIRES HOUSING AND PLUS TRIMLESS MUD RING

SERIES / SHAPE / TYPE	COLOR TEMPERATURE	FINISH	LUMENS / WATTAGE
<b>NIO-4PRTLA</b> PLUS Round Trimless Adjustable	<b>27X</b> 2700K	<b>BB</b> Black	<b>/HL</b> 1500-2500lm (specified by housing)
<b>NIO-4PRTLND</b> PLUS Round Trimless Downlight	<b>30X</b> 3000K	<b>BZ</b> Bronze	
<b>NIO-4PSTLA</b> PLUS Square Trimless Adjustable	<b>35X</b> 3500K	<b>CH</b> Champagne Haze	
<b>NIO-4PSTLND</b> PLUS Square Trimless Downlight	<b>40X</b> 4000K	<b>HZ</b> Haze	
	<b>50X</b> 5000K	<b>MPW</b> Matte Powder White	
		<b>WW</b> White	

Example: **NIO-4PRTLA30XMPW/HL** & **NIO-TLMR-4PR** - 4" Iolite PLUS Round Trimless Adjustable, 3000K, Matte Powder White Reflector / 4" PLUS Round Trimless Mud Ring

Flange accessory allows trimless to be used with remodel and new construction housings, **no mud plate required.**

#### FLANGE ACCESSORY

DESCRIPTION	FINISH
<b>NIO-4PRTFA</b> Flange for PLUS Round Trimless Compatible with NIO-4PRTLA & NIO-4PRTLND only	<b>BB</b> Black <b>BZ</b> Bronze <b>CH</b> Champagne Haze <b>HZ</b> Haze <b>MPW</b> Matte Powder White <b>WH</b> White

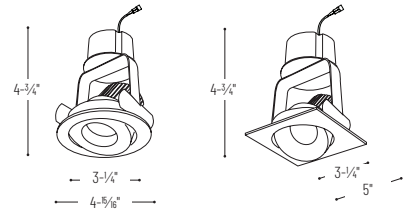


**NIO-4PRTFA**  
Flange Accessory

Example: **NIO-4PRTFAMPW** - Flange Accessory, Matte Powder White finish

# IOLITE RETROFIT IC OR NON-IC HOUSINGS

## 4" TRIMS 1000LM



**NIR-4RC**

4" Round Adjustable Cone  
BB, BW, BZ, CHMPW, CMPW,  
HW, HZMPW, MPW, NN, WW

**NIR-4SC**

4" Square Adjustable Cone  
BB, BW, BZ, CHMPW, CMPW,  
HW, HZMPW, MPW, NN, WW

**NIR-4RG**

4" Round Adjustable Gimbal  
BB, BZ, MPW, NN, WW

**NIR-4SG**

4" Square Adjustable Gimbal  
BB, BZ, MPW, NN, WW

**NIR-4RNB**

4" Round Bullnose  
BB, BZ, MPW, NN, WW

**NIR-4SNB**

4" Square Bullnose  
BB, BZ, MPW, NN, WW

### 4" IOLITE RETROFIT

SERIES / SHAPE	TRIM TYPE	COLOR TEMPERATURE	FINISH	LUMENS / WATTAGE
<b>NIR-4R</b> Round Retrofit	<b>C</b> Cone Regress	<b>27X</b> 2700K	<b>BB</b> Black / Black Flange	/10 1000lm / 12W  Comfort Dim available in 800lm only
<b>NIR-4S</b> Square Retrofit	<b>G</b> Surface Gimbal	<b>30X</b> 3000K	<b>BW</b> Black / White Flange	
	<b>NB</b> Non-Adj. Bullnose	<b>35X</b> 3500K	<b>BZ</b> Bronze / Bronze Flange	
		<b>40X</b> 4000K	<b>CHMPW</b> Champagne Haze / Matte Powder White Flange	
		<b>50X</b> 5000K	<b>CMPW</b> Specular Clear / Matte Powder White Flange	
		<b>CDX</b> Comfort Dim* (800lm only)	<b>HW</b> Haze / White Flange	
			<b>HZMPW</b> Haze / Matte Powder White Flange	
			<b>MPW</b> Matte Powder White / Matte Powder White Flange	
			<b>NN</b> Natural Metal / Nat. Metal Flange	
			<b>WW</b> White / White Flange	
* 1" Comfort Dim uses a different dimming curve than 2" & 4" Comfort Dim			Not all finishes available on all types	

Example: **NIR-4RC27XWW/10** - 4" Round Cone Regress Retrofit, 2700K, Natural Metal with Natural Metal Flange, 1000lm / 12W

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 optic from spot to flood without using any tools.

#### ELECTRICAL:

**Voltage:** 120V

**Lumens / Wattage:** 1000lm / 12W

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

**Color Rendering Index:** 90+ CRI

**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. Available in 800lm only.

#### CONSTRUCTION:

**Trim/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 LED module: spot, narrow flood and flood.

**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-21ISM) 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
- NHIC-4LMRAT/277** 4" ICAT Dedicated LED, 277V
- NFBIC-4LMRATA** 4" ICAT Dedicated LED Fire Box
- NSIC-401QAT** 4" ICAT Line Voltage
- NFBIC-4INCATA** 4" ICAT Line Voltage Fire Box
- NS-401QAT** 4" AT Line Voltage
- NHIC-4G24AT** 4" ICAT GU24<sup>1</sup>

##### Remodel

- NHRIC-4LMRAT** 4" Remodel ICAT Dedicated LED
- NSR-404QAT** 4" Remodel AT Line Voltage

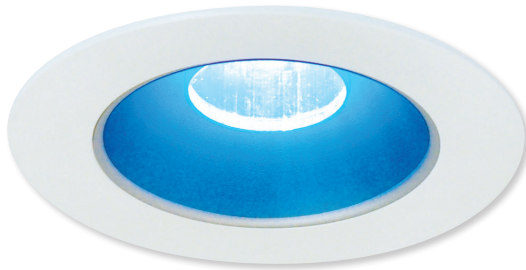
<sup>1</sup>Requires NRA-212SM - GU24 adapter





# IOLITE DOWNLIGHT ACCESSORIES

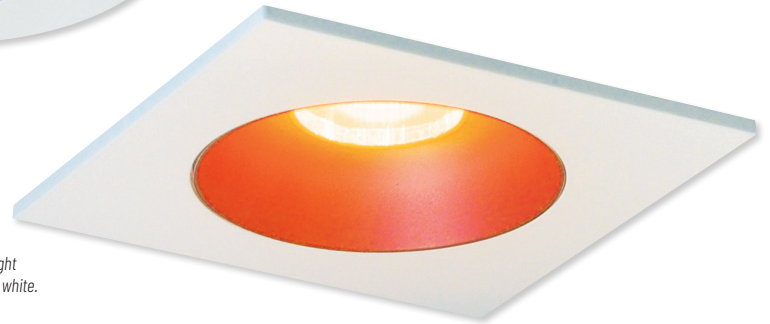
Shown with blue translucent Deco collar. Aperture appears blue, but light output is as specified white.



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 NHI0ICD-1
- NIO-2EXTC2** for NHI0ICD-2
- NIO-4EXTC2** for NHI0ICD-4

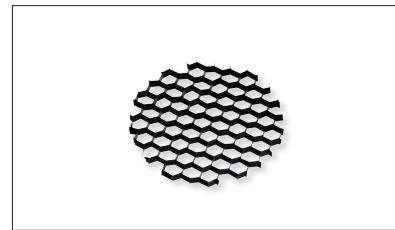
Allows new construction housings to install in ceiling thicknesses up to 2".



## Frosted Optic

- NIO-1REFL20FR** 40° Frosted optic for 1" Iolite
- NIO-1REFL60FR** 60° Frosted optic for 1" Iolite
- NIO-REFLTIR15** Premium 22° TIR optic for 2" & 4" Iolite
- NIO-REFLTIR25** Premium 26° TIR optic for 2" & 4" Iolite
- NIO-REFL38FR** 60° Frosted optic for 2" and 4" Iolite
- NIO-REFL60FR** 73° Frosted optic for 2" and 4" Iolite

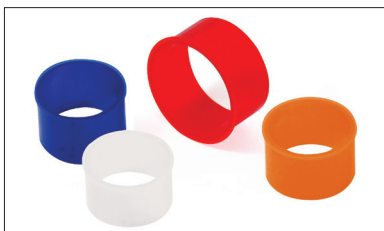
Easily change optics included with LED module.  
Not compatible with /HL LED modules (1500-2500lm).



## 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%.

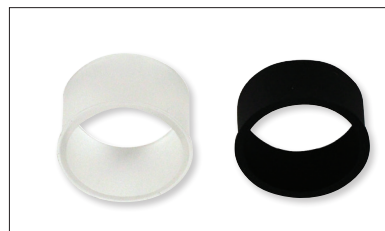


## Translucent Deco Collar

- 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.

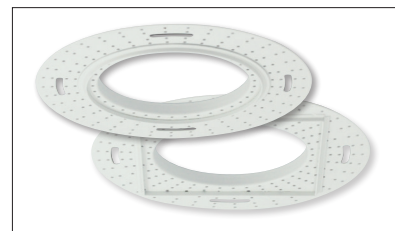


## Opaque Collar Snoot

- 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" and 4" Iolite
- NIO-AS19(color)** 3/4" (19mm) depth, 2" and 4" Iolite
- NIO-AS26(color)** 1" (24mm) depth, 2" and 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 Trims
- NIO-FMMR-1S** 1" Square Trims
- NIO-FMMR-2R** 2" Round Trims
- NIO-FMMR-2S** 2" Square Trims
- NIO-FMMR-4R** 4" Round Trims
- NIO-FMMR-4S** 4" Square Trims

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. Not compatible with Iolite Can-less (NIOC).

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

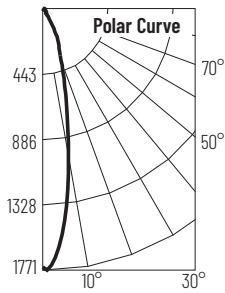
# IOLITE SERIES

## 1" PHOTOMETRICS

### 1" IOLITE: 600LM / 3000K / 20° SPOT

Item Number: NIOB-1RNG3020WW

Lumens: 556lm    Wattage: 9.2W    Efficacy: 61lpw



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

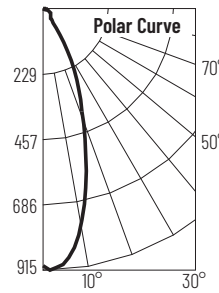
Candela Table	
Vertical Angles	Candela
0	1738
15	612
25	252
35	58
45	39

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: 600LM / 3000K / 40° NARROW FLOOD

Item Number: NIOB-1RNG3040WW

Lumens: 532lm    Wattage: 9.2W    Efficacy: 58lpw



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

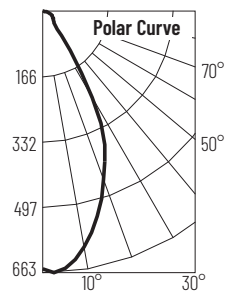
Candela Table	
Vertical Angles	Candela
0	910
15	606
25	291
35	66
45	38

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: 600LM / 3000K / 60° FLOOD

Item Number: NIOB-1RNG3060WW

Lumens: 539lm    Wattage: 9.2W    Efficacy: 58lpw



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

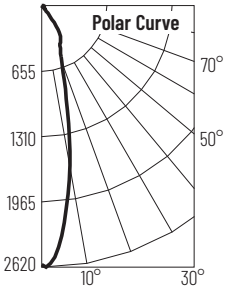
Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	41.2fc	3'-11"
6'	18.3fc	5'-10"
8'	10.3fc	7'-10"
10'	6.6fc	9'-8"
12'	4.6fc	11'-7"

# IOLITE SERIES

## 2" PHOTOMETRICS

### 2" IOLITE: 800LM / 3000K / 25° SPOT

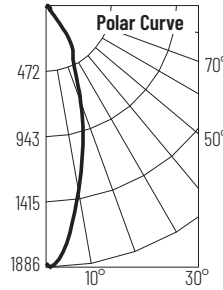
Item Number: NIOB-2RC3025WW  
 Lumens: 947lm    Wattage: 14.2W    Efficacy: 67lpw



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

### 2" IOLITE: 800LM / 3000K / 38° NARROW FLOOD

Item Number: NIOB-2RC3038WW  
 Lumens: 936lm    Wattage: 14.2W    Efficacy: 66lpw



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	2594
15	967
25	443
35	291
45	45

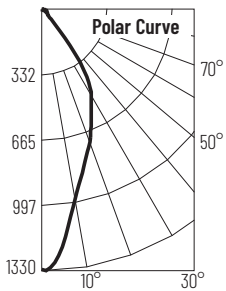
Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	162fc	1'-8"
6'	72.1fc	2'-7"
8'	40.5fc	3'-6"
10'	25.9fc	4'-5"
12'	18fc	5'-2"

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: 800LM / 3000K / 60° FLOOD

Item Number: NIOB-2RC3060WW  
 Lumens: 962lm    Wattage: 14.2W    Efficacy: 68lpw



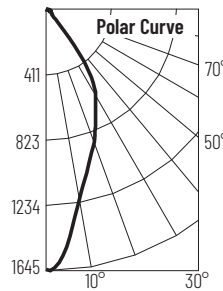
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	614	63.8
0-40	831	86.3
0-60	913	94.9
0-90	960	99.8

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: 1000LM / 3000K / 60° FLOOD

Item Number: NIOB-2RC3060WW/10  
 Lumens: 1246lm    Wattage: 13.2W    Efficacy: 94lpw



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"

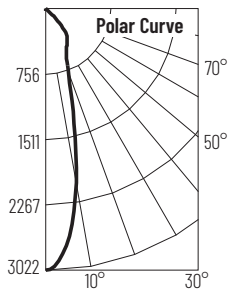
# IOLITE SERIES

## 4" PHOTOMETRICS

### 4" IOLITE: 800LM / 4000K / 26° SPOT

Item Number: NIO-4RC4026WW

Lumens: 1294lm Wattage: 13.96W Efficacy: 93lpw



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	844	65.2
0-40	1111	85.9
0-60	1281	99
0-90	1292	99.9

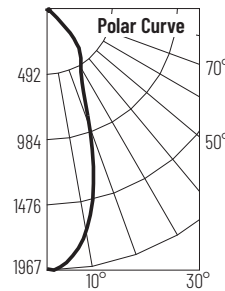
Candela Table	
Vertical Angles	Candela
0	3000
15	1193
25	556
35	426
45	194

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	187fc	1'-10"
6'	83.3fc	2'-7"
8'	46.9fc	3'-6"
10'	30fc	4'-5"
12'	20.8fc	5'-4"

### 4" IOLITE: 800LM / 4000K / 39° NARROW FLOOD

Item Number: NIO-4RC4039WW

Lumens: 1329lm Wattage: 13.98W Efficacy: 95lpw



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	848	63.9
0-40	1125	84.6
0-60	1304	98.2
0-90	1323	99.6

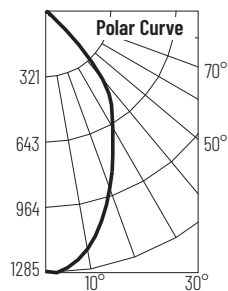
Candela Table	
Vertical Angles	Candela
0	1697
15	1013
25	495
35	126
45	68

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	123fc	2'-10"
6'	54.7fc	4'-2"
8'	30.7fc	5'-7"
10'	19.7fc	7'
12'	13.7fc	8'-5"

### 4" IOLITE: 800LM / 4000K / 61° FLOOD

Item Number: NIO-4RC4061WW

Lumens: 1348lm Wattage: 14.07W Efficacy: 96lpw



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	768	57
0-40	1081	80.2
0-60	1319	97.9
0-90	1343	99.6

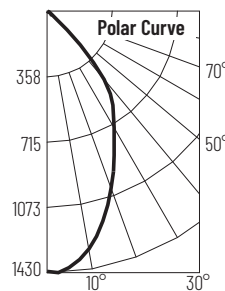
Candela Table	
Vertical Angles	Candela
0	1276
15	1050
25	768
35	553
45	222

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	79.8fc	4'-8"
6'	35.5fc	7'
8'	19.9fc	9'-5"
10'	12.8fc	11'-8"
12'	8.9fc	14'

### 4" IOLITE: 1000LM / 4000K / 61° FLOOD

Item Number: NIO-4RC4061WW/10

Lumens: 1500lm Wattage: 13.47W Efficacy: 111lpw



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	1423
15	1174
25	854
35	619
45	247

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	88.9fc	4'-8"
6'	39.5fc	7'
8'	22.2fc	9'-5"
10'	14.2fc	11'-8"
12'	9.9fc	14'

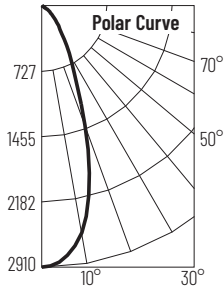


# IOLITE SERIES

## 4" PHOTOMETRICS

### 4" IOLITE: 1500LM / 4000K / 39° SPOT

Item Number: NIO-4RC40XWW/HL  
 Lumens: 1829lm Wattage: 19.5W Efficacy: 94lpw



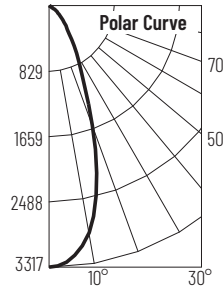
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1251	68.4
0-40	1518	83
0-60	1773	96.9
0-90	1817	99.3

Candela Table	
Vertical Angles	Candela
0	2910
15	2058
25	913
35	421
45	209

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	182fc	2'-11"
6'	80.8fc	4'-4"
8'	45.5fc	5'-8"
10'	29.1fc	7'-2"
12'	20.2fc	8'-7"

### 4" IOLITE: 2000LM / 4000K / 39° SPOT

Item Number: NIO-4RC40XWW/HL  
 Lumens: 2085lm Wattage: 24.1W Efficacy: 87lpw



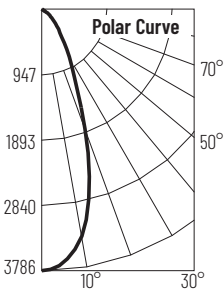
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1425	68.4
0-40	1730	83
0-60	2021	96.9
0-90	2071	99.3

Candela Table	
Vertical Angles	Candela
0	3317
15	2347
25	1042
35	480
45	238

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	207fc	2'-11"
6'	92.1fc	4'-4"
8'	51.8fc	5'-8"
10'	33.2fc	7'-2"
12'	23fc	8'-7"

### 4" IOLITE: 2500LM / 4000K / 39° SPOT

Item Number: NIO-4RC40XWW/HL  
 Lumens: 2368lm Wattage: 28.2W Efficacy: 84lpw



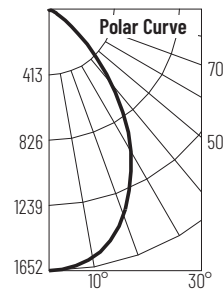
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1624	68.6
0-40	1943	82
0-60	2300	99.4
0-90	2355	99.4

Candela Table	
Vertical Angles	Candela
0	3786
15	2681
25	1183
35	544
45	271

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	237fc	2'-11"
6'	105fc	4'-4"
8'	59.2fc	5'-8"
10'	37.9fc	7'-2"
12'	26.3fc	8'-7"

### 4" IOLITE: 2500LM / 4000K / 70° FLOOD

Item Number: NIO-4RC40XWW/HL  
 Lumens: 2226lm Wattage: 27.8W Efficacy: 80lpw



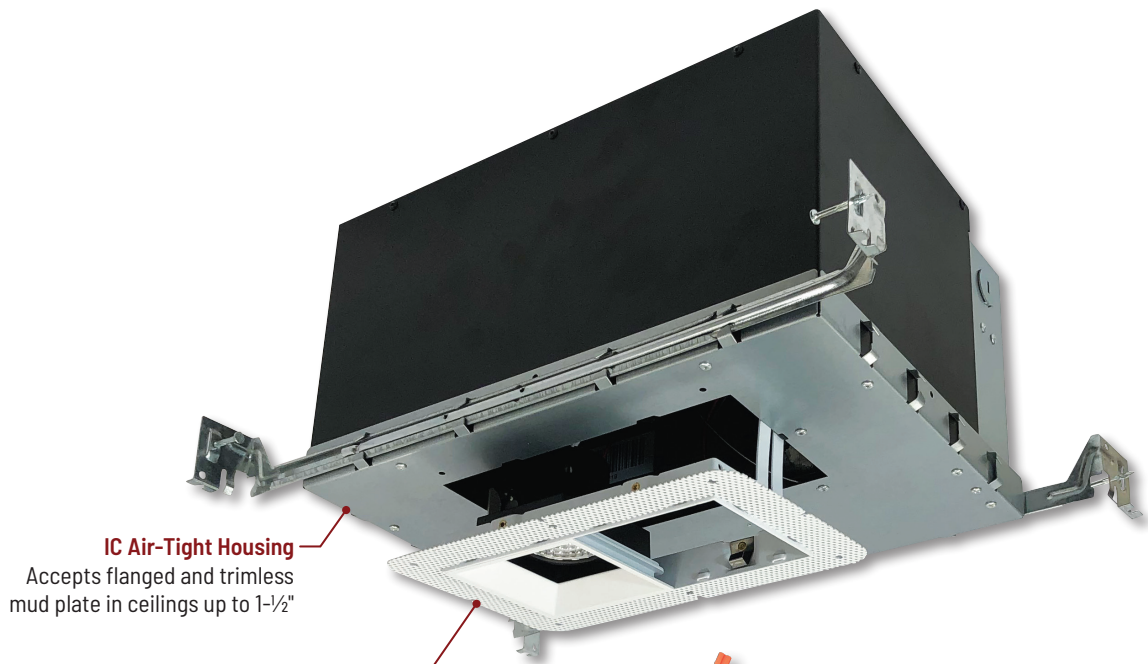
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	1137	51.1
0-40	1613	72.5
0-60	2138	96.1
0-90	2211	99.3

Candela Table	
Vertical Angles	Candela
0	1652
15	1511
25	1216
35	841
45	428

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	103fc	5'-8"
6'	45.9fc	8'-6"
8'	25.8fc	11'-5"
10'	16.5fc	14'-2"
12'	11.5fc	17'



# IOLITE MULTIPLE LIGHTING SYSTEM

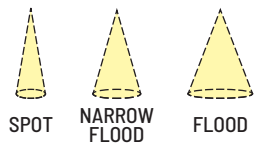


**IC Air-Tight Housing**  
Accepts flanged and trimless mud plate in ceilings up to 1-1/2"

**Trimless Mud Plate**  
Allows trims to blend into the finished ceiling for a minimalist appearance with no flange



**Die-Cast Aluminum Heat Sink**  
with COB LED technology



**Field Changeable Optics**  
Each module includes spot, narrow flood and flood optics

**Four Trim Styles**  
available in Fixed Downlight, Adjustable Gimbal, Adjustable Snoot & Wall Wash in variety of finishes

## FINISHES



B  
Black



BMPW  
Black Interior  
Matte Powder White Exterior

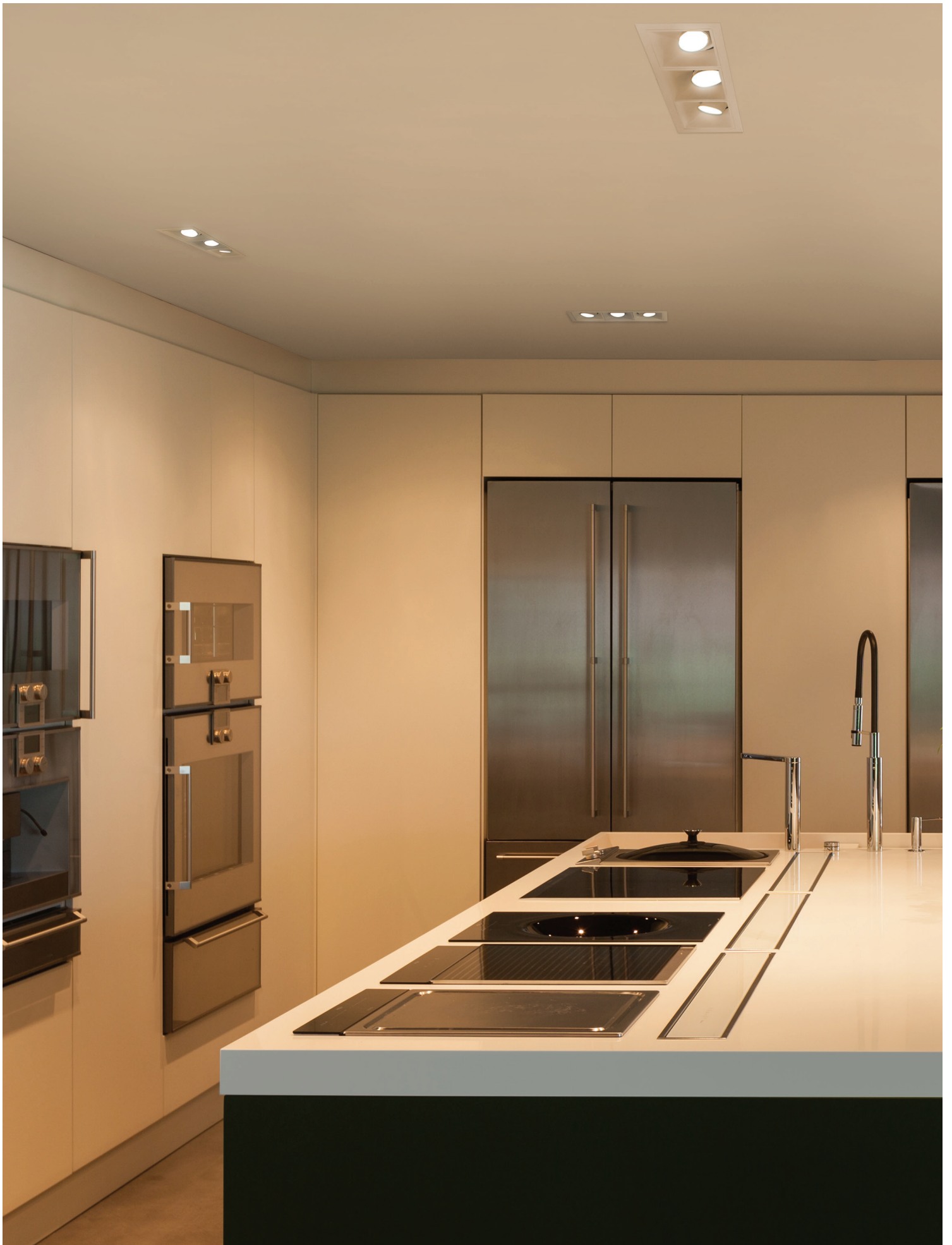


HZ  
Haze



MPW  
Matte Powder White

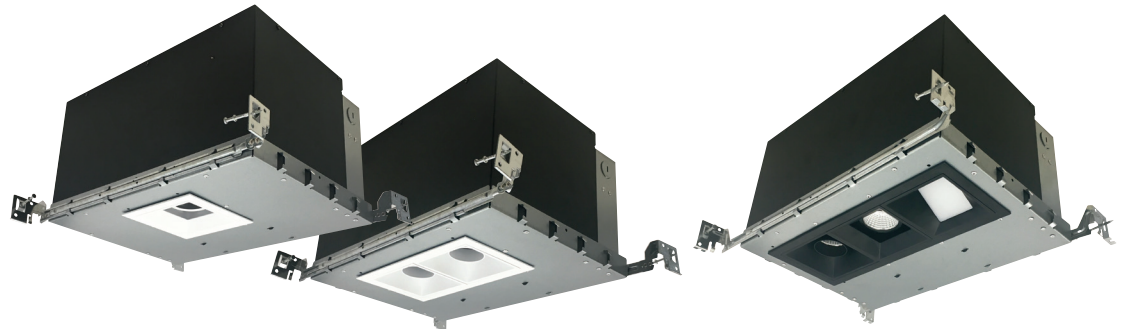
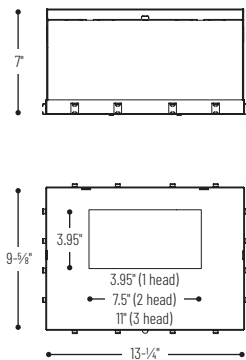






# LED DEDICATED IOLITE SERIES MULTIPLE

## 1000LM PER HEAD 1-3 ADJUSTABLE HEADS



**NMHIOIC-11-LE4**  
One Head Iolite New Construction Housing

**NMHIOIC-12-LE4**  
Two Head Iolite New Construction Housing

**NMHIOIC-13-LE4**  
Three Head Iolite New Construction Housing

### IOLITE MULTIPLE NEW CONSTRUCTION HOUSING

SERIES / NUMBER OF HEADS	DRIVER / DIMMING
<b>NMHIOIC-11</b> One Head	<b>-LE4</b> 120-277V input; Triac / ELV / 0-10V dimming
<b>NMHIOIC-12</b> Two Heads	
<b>NMHIOIC-13</b> Three Heads	

Example: **NMHIOIC-13-LE4** - Three Head Iolite Multiple, 120-277V input, Triac / ELV / 0-10V Dimming



**-A**  
Adjustable Snoot  
20° Adjustable  
B, HZ, MPW

**-G**  
Adjustable Gimbal  
B, HZ, MPW

**-F**  
Fixed Downlight  
Non-Adjustable  
B, BMPW, HZ, MPW

**-W**  
Wall Wash  
Non-Adjustable  
B, HZ, MPW

### IOLITE MULTIPLE TRIM

FLANGE TYPE	NUMBER OF HEADS	FLANGE FINISH	TRIM TYPE	COLOR TEMPERATURE	LUMENS / WATTAGE PER HEAD	TRIM FINISH
<b>NMIOT-1</b> Flanged	<b>1</b> One Head <b>2</b> Two Heads <b>3</b> Three Heads	<b>-NF</b> Trimless <b>-B</b> Black <b>-MPW</b> Matte Powder White	<b>-A</b> Adjustable Snoot	<b>27X</b> 2700K	<b>-10</b> 1000lm / 12W per head (800lm with Comfort Dim)	<b>-B</b> Black
<b>NMIOTL-1</b> Trimless			<b>-B</b> Blank Plate	<b>30X</b> 3000K		<b>-BMPW</b> Black / Matte Powder White (fixed only)
			<b>-F</b> Fixed Downlight	<b>35X</b> 3500K		<b>-HZ</b> Haze
			<b>-G</b> Adjustable Gimbal	<b>40X</b> 4000K		<b>-MPW</b> Matte Powder White
			<b>-W</b> Wall Wash	<b>50X</b> 5000K		
				<b>CDX</b> Comfort Dim		

Example: **NMIOT-13-MPW-AAF-30X-10-MPW** Matte Powder White Flange, Adjustable Snoot-Fixed-Adjustable Snoot, 3000K, 1000lm / 12W per head, Matte Powder White finish

Iolite multiple recessed family consists of one to three independently adjustable heads, a variety of beam distributions and three reflector options. The housing includes individual drivers for each module. Completely serviceable from below, Iolite Multiple series is a perfect solution for most retail, hospitality and commercial applications.

#### ELECTRICAL:

**Voltage:** 120V-277V

**Lumens / Wattage:** 1000lm / 12W per head  
(Comfort Dim is 800lm per head)

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

**Color Rendering Index:** 90+ CRI

**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. Available in 800lm only.

#### CONSTRUCTION:

**New Construction Housing:** 0.0475" Galvanized steel housing with quick connects from each driver for ease of installation. Includes two adjustable bar hangers with L-shaped alignment foot and T-bar notch and pre-wired junction box suitable for through branch circuit wiring.

**Trim/Module:** Each trim assembly includes three optics (flood - installed, narrow flood and spot) and quick connect for easy installation. Trim options include a fixed snoot, adjustable snoot (20° adjustable) and wall wash. Premium TIR optics are available in 22° and 26° beam spreads.

**FLANGED/TRIMLESS:** Trims can be specified with a flanged or trimless appearance. Trimless mud plate allows for a premium finishing technique with minimalist appearance.

#### ACCESSORIES:

**NIO-REFLTIR15** Premium 22° TIR Optic (must specify per head)  
**NIO-REFLTIR25** Premium 26° TIR Optic (must specify per head)

#### LISTING & WARRANTY:

- cULus Listed for Damp Location
- ENERGY STAR certified
- 5-Year Limited Warranty
- Certified to the high efficacy requirements of California Title 24 JA8-2022

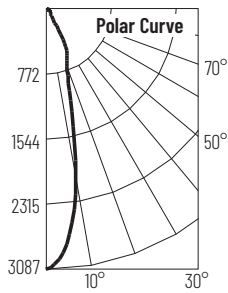


# IOLITE SERIES

## MULTIPLE PHOTOMETRICS

### ADJUSTABLE SNOOT 4000K, 25°

Item Number: NMIOT-11-MPW-A-40X-10-MPW  
 Lumens: 1116lm Wattage: 11.7W Efficacy: 96lpw



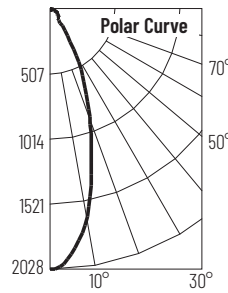
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	824	73.8
0-40	921	82.5
0-60	1045	93.6
0-90	1111	99.5

Candela Table	
Vertical Angles	Candela
0	3087
15	1120
25	574
35	122
45	84

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	193fc	1'-10"
6'	85.8fc	2'-8"
8'	48.2fc	3'-6"
10'	30.9fc	4'-5"
12'	21.4fc	5'-4"

### ADJUSTABLE SNOOT 4000K, 38°

Item Number: NMIOT-11-MPW-A-40X-10-MPW  
 Lumens: 1096lm Wattage: 11.6W Efficacy: 94lpw



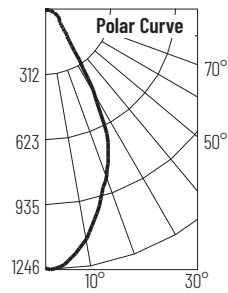
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	796	72.6
0-40	896	81.8
0-60	1023	93.3
0-90	1091	99.5

Candela Table	
Vertical Angles	Candela
0	2028
15	1239
25	619
35	126
45	85

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	127fc	2'-7"
6'	56.3fc	3'-11"
8'	31.7fc	5'-2"
10'	20.3fc	6'-6"
12'	14.1fc	7'-10"

### ADJUSTABLE SNOOT 4000K, 60°

Item Number: NMIOT-11-MPW-A-40X-10-MPW  
 Lumens: 1060lm Wattage: 11.6W Efficacy: 91lpw



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	701	66.1
0-40	849	80.1
0-60	986	93.1
0-90	1055	99.6

Candela Table	
Vertical Angles	Candela
0	1246
15	982
25	708
35	208
45	93

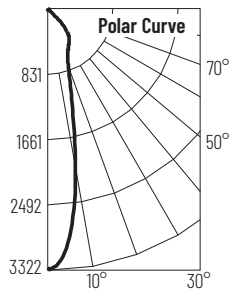
Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	77.9fc	4'-1"
6'	34.6fc	6'-1"
8'	19.5fc	8'-1"
10'	12.5fc	10'-1"
12'	8.7fc	12'-2"

# IOLITE SERIES

## MULTIPLE PHOTOMETRICS

### ADJUSTABLE GIMBAL 4000K, 24°

Item Number: NMIOT-11-MPW-G-40X-10-MPW  
 Lumens: 1335lm Wattage: 11.83W Efficacy: 113lpw



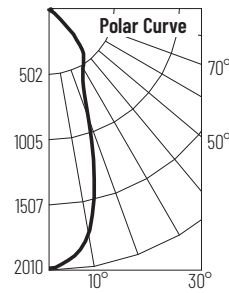
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	856	64.1
0-40	1143	85.6
0-60	1318	98.7
0-90	1329	99.6

Candela Table	
Vertical Angles	Candela
0	3290
15	1147
25	599
35	464
45	176

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	206fc	1'-8"
6'	91.4fc	2'-6"
8'	51.4fc	3'-4"
10'	32.9fc	4'-2"
12'	22.8fc	5'

### ADJUSTABLE GIMBAL 4000K, 37°

Item Number: NMIOT-11-MPW-G-40X-10-MPW  
 Lumens: 1331lm Wattage: 11.8W Efficacy: 113lpw



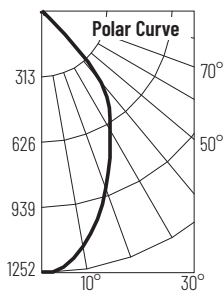
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	843	63.3
0-40	1102	82.8
0-60	1312	98.6
0-90	1326	99.6

Candela Table	
Vertical Angles	Candela
0	1995
15	1355
25	630
35	474
45	229

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	125fc	2'-8"
6'	55.4fc	4'
8'	31.2fc	5'-5"
10'	20fc	6'-8"
12'	13.9fc	8'-1"

### ADJUSTABLE GIMBAL 4000K, 60°

Item Number: NMIOT-11-MPW-G-40X-10-MPW  
 Lumens: 1320lm Wattage: 11.81W Efficacy: 112lpw



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	755	57.2
0-40	1102	83.5
0-60	1300	98.5
0-90	1315	99.6

Candela Table	
Vertical Angles	Candela
0	1251
15	1022
25	759
35	565
45	195

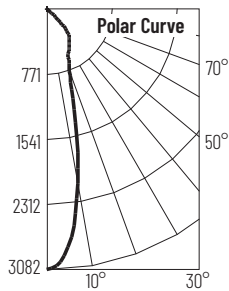
Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	78.2fc	4'-11"
6'	34.7fc	7'-4"
8'	19.5fc	9'-8"
10'	12.5fc	12'-2"
12'	8.7fc	14'-7"

# IOLITE SERIES

## MULTIPLE PHOTOMETRICS

### FIXED DOWNLIGHT 4000K, 25°

Item Number: NMIOT-11-B-F-40X-10-BMPW  
 Lumens: 1361lm Wattage: 11.7W Efficacy: 117lpw



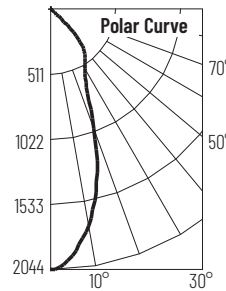
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	868	63.8
0-40	1157	85
0-60	1346	98.9
0-90	1349	99.14

Candela Table	
Vertical Angles	Candela
0	3082
15	1208
25	595
35	464
45	227

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	193fc	1'-10"
6'	85.6fc	2'-10"
8'	48.2fc	3'-8"
10'	30.8fc	4'-7"
12'	21.4fc	5'-6"

### FIXED DOWNLIGHT 4000K, 38°

Item Number: NMIOT-11-B-F-40X-10-BMPW  
 Lumens: 1368lm Wattage: 11.7W Efficacy: 117lpw



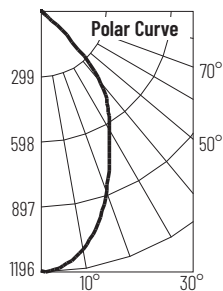
Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	867	63.4
0-40	1152	84.2
0-60	1354	99
0-90	1361	99.5

Candela Table	
Vertical Angles	Candela
0	2036
15	1386
25	654
35	455
45	237

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	127fc	2'-10"
6'	56.5fc	4'-4"
8'	31.8fc	5'-8"
10'	20.4fc	7'-1"
12'	14.1fc	8'-6"

### FIXED DOWNLIGHT 4000K, 60°

Item Number: NMIOT-11-B-F-40X-10-BMPW  
 Lumens: 1340lm Wattage: 11.7W Efficacy: 115lpw



Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	750	55.9
0-40	1095	81.7
0-60	1323	98.7
0-90	1333	99.5

Candela Table	
Vertical Angles	Candela
0	1194
15	1033
25	763
35	557
45	258

Illuminance at a Distance		
Distance from Luminaire	FC at Nadir	Beam Diameter
4'	53.8fc	4'-11"
6'	23.9fc	7'-5"
8'	13.5fc	9'-11"
10'	8.6fc	12'-5"
12'	6fc	14'-10"



# IOLITE SERIES

## MULTIPLE PHOTOMETRICS

### WALL WASH 4000K

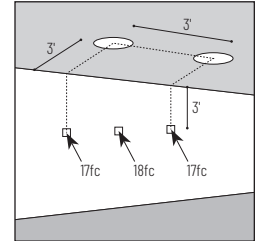
Item Number: NMIOT-11-B-W-40X-10-MPW

Lumens: 586lm    Wattage: 11.85W    Efficacy: 49lpw

Multiple luminaire data (footcandles)			
Distance from Luminaire	2' from wall		
	2' on center		
1'	31	28	31
2'	30	31	30
3'	17	18	17
4'	10	10	10
5'	6	6	6
6'	4	4	4
7'	2	2	2
8'	2	2	2
9'	1	1	1
10'	1	1	1

Multiple luminaire data (footcandles)			
Distance from Luminaire	2' from wall		
	3' on center		
1'	28	16	28
2'	25	22	25
3'	15	15	15
4'	8	9	8
5'	5	5	5
6'	3	4	3
7'	2	2	2
8'	2	2	2
9'	1	1	1
10'	1	1	1

Multiple luminaire data (footcandles)			
Distance from Luminaire	3' from wall		
	3' on center		
1'	8	7	8
2'	16	15	16
3'	13	14	13
4'	9	10	9
5'	6	7	6
6'	4	5	4
7'	3	3	3
8'	2	2	2
9'	2	2	2
10'	1	1	1



**Example:** Two luminaires located 3' from wall and spaced 3' on center, the illumination on the wall 3' down from ceiling will be 13fc beneath and 14fc between luminaires.

# Notes

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