

# NIO-4PSTLA

## 4" Iolite PLUS Square Trimless Adjustable

Source: 20W or 24W LED  
Up to 1950lm

Type

Project

Catalog No.

Notes

### PRODUCT DESCRIPTION

4" PLUS Trimless Iolite downlights have no exposed trim flange and do not extend beyond the ceiling plane. Iolite PLUS Trimless requires a PLUS Trimless Mud Ring and PLUS New Construction housing. Deep regressed cone reflector optimizes visual cut-off and adjust up to 35°.

### FEATURES

- Trimless knife edge appearance
- Delivering up to 1950lm LED packages
- 2700K, 3000K, 3500K, 4000K, 5000K @ 90+ CRI
- Comfort Dim (warm dimming) is also available
- Flood optic, narrow flood and spot optics (included)
- 5-Year limited warranty

### SPECIFICATION

**Construction:** Cold forged die-cast aluminum LED heat sink is threaded to fit trimless adjustable and transfer heat.

**Mounting:** Luminaire includes stainless steel friction clips to mount securely to trimless mud ring. Mud ring is required per trimless adjustable.

### OPTICS

Each luminaire includes field changeable TIR optics (40° spot, 62° flood and 47° narrow flood - preinstalled).

### ELECTRICAL

<b>Delivered Lumens / Wattage</b>	Up to 1650lm / 20W	Up to 1950lm / 24W
<b>Color Temperature</b>	2700K, 3000K, 3500K, 4000K, 5000K	
<b>Color Rendering Index</b>	90+ CRI	
<b>Compatible Housing</b>	<a href="#">NHIOICD-4PS15</a> <a href="#">NHIOICDCP-4PS15</a>	<a href="#">NHIOICD-4PS20</a> <a href="#">NHIOICDCP-4PS20</a>
<b>Lifetime</b>	50,000 hours @ L70	

**Comfort Dim:** Comfort Dim color tunes the temperature from a bright 3000K, to a romantic and comfortable 2000K on a gradual, even curve.

**Accessories:** Luminaires will accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see page 2. Mud ring is required ([NIO-TLMR-4PS](#)) per trimless adjustable.

### LABELS AND LISTINGS

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

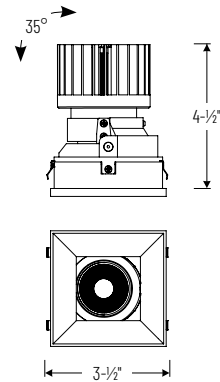


### Performance Data

Optic	1500lm	2000lm	CCT
<b>Spot</b>	1668lm	1958lm	4000K
<b>Narrow Flood</b>	1656lm	1958lm	4000K
<b>Flood</b>	1374lm	1612lm	4000K

*Delivered lumens will vary depending on optic, finish and CCT*

### PRODUCT IMAGES AND DIMENSIONS



### NIO-4PSTLA

PLUS Square Trimless Adjustable  
Tilt: 35° / Rotation: 359°



**BB**  
Black Adjustable Reflector



**BZ**  
Bronze Adjustable Reflector



**CH**  
Champagne Haze Adjustable Reflector



**HZ**  
Haze Adjustable Reflector



**MPW**  
Matte Powder White Adjustable Reflector



**WW**  
White Adjustable Reflector

### 4" Iolite PLUS Square Trimless Adjustable - New Construction Housing & Trimless Mud Ring Required

Color Temperature	Finish	Lumens / Wattage
<b>NIO-4PSTLA27X</b> = 2700K	<b>BB</b> = Black	<b>/HL</b> = 1500lm or 2000lm
<b>NIO-4PSTLA30X</b> = 3000K	<b>BZ</b> = Bronze	(varies by housing)
<b>NIO-4PSTLA35X</b> = 3500K	<b>CH</b> = Champagne Haze	
<b>NIO-4PSTLA40X</b> = 4000K	<b>HZ</b> = Haze	
<b>NIO-4PSTLA50X</b> = 5000K	<b>MPW</b> = Matte Powder White	
<b>NIO-4PSTLACDX</b> = Comfort Dim	<b>WW</b> = White	

### Compatible Housings

Housing Type
<b>NHIOICD-4PS15</b> = ICAT New Construction / 1500lm / 20W
<b>NHIOICDCP-4PS15</b> = Chicago Plenum / 1500lm / 20W
<b>NHIOICD-4PS20</b> = ICAT New Construction / 2000lm / 24W
<b>NHIOICDCP-4PS20</b> = Chicago Plenum / 2000lm / 24W

### 4" PLUS Trimless Mud Ring

Description
<b>NIO-TLMR-4PS</b> = 4" PLUS Square Trimless Mud Ring

Example: **NIO-4PSTLA27XWW/HL & NIO-TLMR-4PS** = 4" Iolite PLUS Square Trimless Adjustable, 2700K, White finish / 4" PLUS Square Trimless Mud Ring

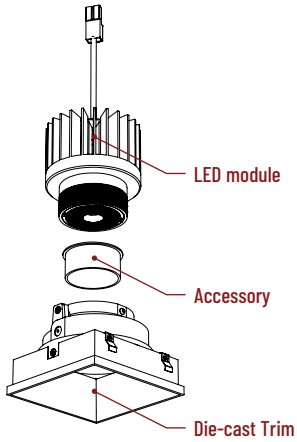
# Iolite PLUS Accessories

## 4" Iolite PLUS Square Trimless Adjustable

Type
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### ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between LED module and die-cast trim. Luminaire will accommodate (1) hex louver and (1) collar accessory, no accessory holder required.



Translucent Decorative Collar

**NIO-AS14(color)** 5/8" length  
**NIO-AS19(color)** 3/4" length  
**NIO-AS26(color)** 1" length  
**Color:**  
**AM** (amber), **BLU** (blue), **FR** (frosted), **R** (red)

Translucent collars color the aperture with the specified color while producing white general light. Collars are available in different lengths. Use to add interest, create a theme, match a theme or define a space.



Opaque Collar Snoot

**NIO-AS14(color)** 5/8" length  
**NIO-AS19(color)** 3/4" length  
**NIO-AS26(color)** 1" length  
**Color:**  
**MPW** (matte powder white), **WH** (white)

Opaque snoot greatly reduces aperture brightness while preserving light output.

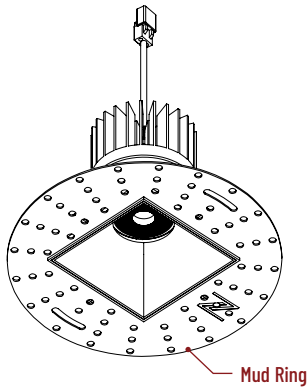


Hex Cell Louver

**NIO-HC** Black  
 Hex cell louver subtly reduces aperture brightness by reducing light output by about 20%.

### TRIMLESS

4" Iolite PLUS trimless downlights have no exposed flange and the result is a minimalist knife edge appearance. A trimless mud ring is installed after the drywall and a professional drywall finisher floats the ceiling to blend in the mud ring.



Iolite PLUS Trimless Mud Ring

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

Mounts trimless downlight with no exposed flange and no extension beyond ceiling plane. Die-cast aluminum mud ring attaches to drywall. **Only for use with NHIOICD-4PS new construction housings and NIO-4PSTL trimless.**  
 Dimensions: 7-7/8" diameter 3/8" thick

# PHOTOMETRICS

## 4" Iolite PLUS Square Trimless Adjustable 1500 lumens

Type

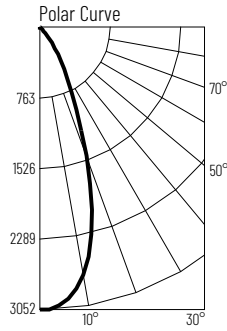
Project

Catalog No.

Notes

### Test Information

Test Number: NTR1719R1  
Part Number: NI0-4PSTLA40XMPW/HL  
Beam Spread: 40° Spot  
Lumens: 1668lm  
Wattage: 19.55W  
Efficacy: 85pw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180°): 0.66  
Spacing Criteria (90°-270°): 0.66



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	47.6fc	5'-10"
10'	30.5fc	7'-4"
12'	21.2fc	8'-8"
14'	15.6fc	10'-2"
16'	11.9fc	11'-7"

### Zonal Lumen Summary

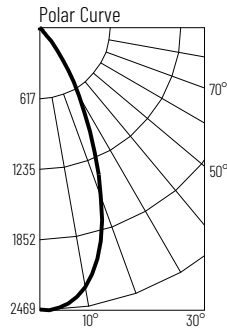
Zone	Lumens	% Luminaire
0-30	1316	78.9
0-40	1542	92.4
0-60	1651	98.9
0-90	1660	99.5
90-180	9	0.5
0-180	1669	100

### Candela Table

Vertical Angles	Candela
0	3048
5	2946
15	2155
25	988
35	327
45	52

### Test Information

Test Number: NTR1721R1  
Part Number: NI0-4PSTLA40XMPW/HL  
Beam Spread: 47° Narrow Flood  
Lumens: 1656lm  
Wattage: 19.53W  
Efficacy: 85pw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180°): 0.76  
Spacing Criteria (90°-270°): 0.76



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	38.5fc	7'
10'	24.7fc	8'-10"
12'	17.1fc	10'-7"
14'	15.6fc	12'-4"
16'	11.9fc	14'-1"

### Zonal Lumen Summary

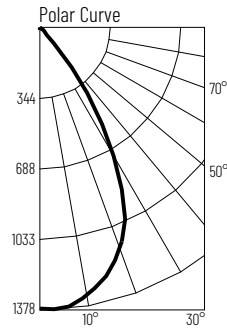
Zone	Lumens	% Luminaire
0-30	1287	77.7
0-40	1550	93.6
0-60	1640	99
0-90	1648	99.5
90-180	9	0.5
0-180	1656	100

### Candela Table

Vertical Angles	Candela
0	2465
5	2386
15	1964
25	1119
35	406
45	54

### Test Information

Test Number: NTR1723R1  
Part Number: NI0-4PSTLA40XMPW/HL  
Beam Spread: 62° Flood  
Lumens: 1374lm  
Wattage: 19.56W  
Efficacy: 70pw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180°): 0.98  
Spacing Criteria (90°-270°): 0.98



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	21.4fc	9'-8"
10'	13.7fc	12'-1"
12'	9.5fc	14'-7"
14'	7fc	17'
16'	5.4fc	19'-5"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	922	67.1
0-40	1254	91.2
0-60	1357	98.8
0-90	1367	99.5
90-180	7	0.5
0-180	1374	100

### Candela Table

Vertical Angles	Candela
0	1372
5	1358
15	1261
25	971
35	477
45	43

### Lumen Output Multipliers

Color Temperature: 2700K (0.83), 3000K (0.89), 3500K (1.00), 4000K (1.00), 5000K (1.06)

# PHOTOMETRICS

## 4" Iolite PLUS Square Trimless Adjustable 2000 lumens

Type

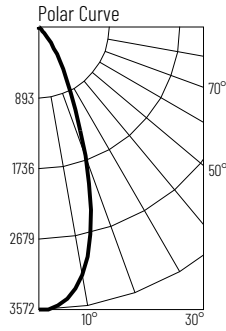
Project

Catalog No.

Notes

### Test Information

Test Number: NTR1720R1  
Part Number: NI0-4PSTLA40XMPW/HL  
Beam Spread: 40° Spot  
Lumens: 1958lm  
Wattage: 23.58W  
Efficacy: 83pw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180°): 0.66  
Spacing Criteria (90°-270°): 0.66



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
12'	24.8fc	8'-8"
14'	18.2fc	10'-2"
16'	13.9fc	11'-7"
18'	11fc	13'-1"
20'	8.9fc	14'-6"

### Zonal Lumen Summary

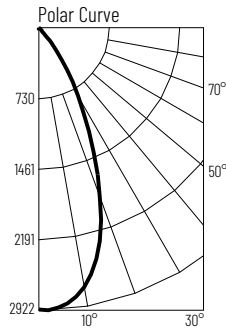
Zone	Lumens	% Luminaire
0-30	1543	78.8
0-40	1826	93.3
0-60	1936	98.9
0-90	1947	99.5
90-180	11	0.5
0-180	1958	100

### Candela Table

Vertical Angles	Candela
0	3570
5	3234
15	2311
25	1058
35	494
45	247

### Test Information

Test Number: NTR1722R1  
Part Number: NI0-4PSTLA40XMPW/HL  
Beam Spread: 47° Narrow Flood  
Lumens: 1958lm  
Wattage: 23.83W  
Efficacy: 82pw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180°): 0.76  
Spacing Criteria (90°-270°): 0.76



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
12'	20.2fc	10'-6"
14'	14.9fc	12'-4"
16'	11.4fc	14'
18'	9fc	15'-10"
20'	7.3fc	17'-6"

### Zonal Lumen Summary

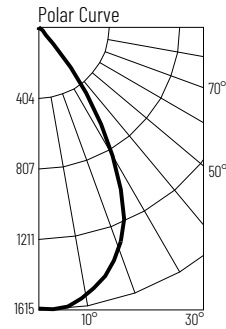
Zone	Lumens	% Luminaire
0-30	1522	77.7
0-40	1832	93.6
0-60	1940	99
0-90	1948	99.5
90-180	10	0.5
0-180	1959	100

### Candela Table

Vertical Angles	Candela
0	2914
5	2691
15	2254
25	1402
35	590
45	218

### Test Information

Test Number: NTR1724R1  
Part Number: NI0-4PSTLA40XMPW/HL  
Beam Spread: 62° Flood  
Lumens: 1612lm  
Wattage: 23.78W  
Efficacy: 68pw  
CCT / CRI: 4000K / 90 CRI  
Spacing Criteria (0°-180°): 0.98  
Spacing Criteria (90°-270°): 0.98



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
12'	11.2fc	14'-7"
14'	8.2fc	17'
16'	6.3fc	19'-5"
18'	5fc	21'-10"
20'	4fc	24'-4"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1080	67
0-40	1443	89.5
0-60	1592	98.8
0-90	1604	99.5
90-180	8	0.5
0-180	1612	100

### Candela Table

Vertical Angles	Candela
0	1608
5	1441
15	1335
25	1084
35	745
45	360

### Lumen Output Multipliers

Color Temperature: 2700K (0.83), 3000K (0.89), 3500K (1.00), 4000K (1.00), 5000K (1.06)