

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
- 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

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

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

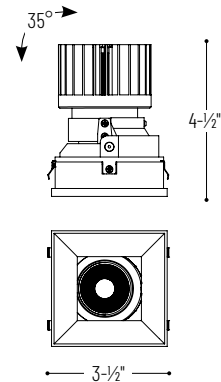


Performance Data

Optic	1500lm	2000lm	CCT
Spot	1668lm	1958lm	4000K
Narrow Flood	1656lm	1958lm	4000K
Flood	1374lm	1612lm	4000K

Delivered lumens will vary depending on optic, finish and CCT

PRODUCT IMAGES AND DIMENSIONS



NIO-4PSTLA

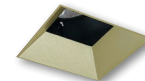
PLUS Square Trimless Adjustable
Tilt: 35° / Rotation: 359°



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

Reflector Type	Color Temperature	Finish	Lumens / Wattage
NIO-4PSTLA = PLUS Square Trimless Adjustable	27X = 2700K	BB = Black	/HL = 1500lm or 2000lm (varies by housing)
	30X = 3000K	BZ = Bronze	
	35X = 3500K	CH = Champagne Haze	
	40X = 4000K	HZ = Haze	
	50X = 5000K	MPW = Matte Powder White	
		WW = White	

Compatible Housings

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

4" PLUS Trimless Mud Ring

Description
NIO-TLMR-4PS = 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

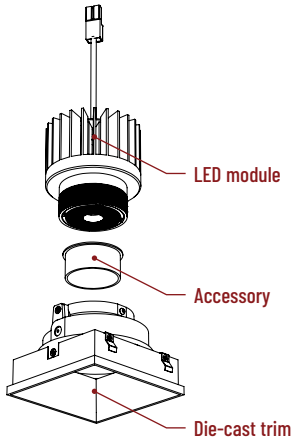
Iolite PLUS Accessories

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.

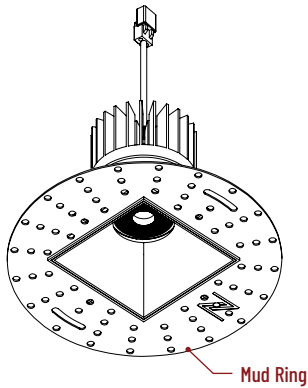


Hex Cell Louver

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

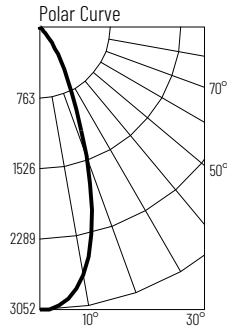
Project

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

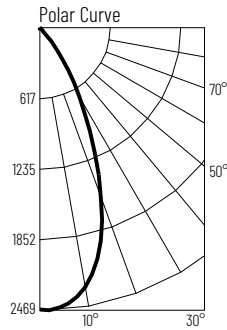
Zone	Lumens	% Luminaire
0-30	1316	78.9
0-40	1542	92.4
0-60	1651	98.9
0-90	1660	99.5
90-180	9	0.5
0-180	1669	100

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

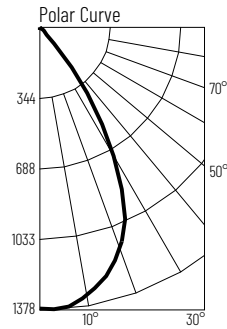
Zone	Lumens	% Luminaire
0-30	1287	77.7
0-40	1550	93.6
0-60	1640	99
0-90	1648	99.5
90-180	9	0.5
0-180	1656	100

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

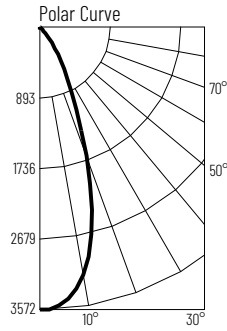
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Notes

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

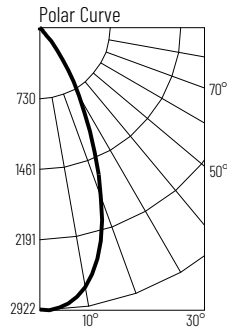
Zone	Lumens	% Luminaire
0-30	1543	78.8
0-40	1826	93.3
0-60	1936	98.9
0-90	1947	99.5
90-180	11	0.5
0-180	1958	100

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

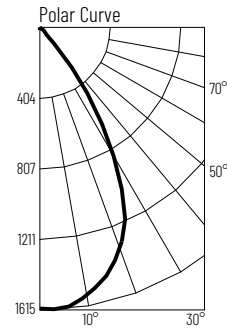
Zone	Lumens	% Luminaire
0-30	1522	77.7
0-40	1832	93.6
0-60	1940	99
0-90	1948	99.5
90-180	10	0.5
0-180	1959	100

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)