

NI0B-2SNDC

2" Iolite Square Reflector with Round Aperture

Source: 14W to 28W LED
800lm to 2500lm

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

2" Iolite reflectors can be specified for use with Iolite new construction or remodel housings. Deep regressed cone reflectors optimize visual cut-off.

FEATURES

- 800lm, 1000lm, 1500lm, 2000lm or 2500lm LED packages
- 2700K, 3000K, 3500K, 4000K, 5000K @ 90+ CRI
- Cree® LED COB or Comfort Dim Technology
- Flood optic, narrow flood and spot optics (included)
- 5-Year limited warranty

SPECIFICATION

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

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

OPTICS

800-1000lm: Each reflector includes field changeable optics (flood, narrow flood and spot). Premium 15° and 25° TIR optics are also available.

1500-2500lm: Each reflector includes field changeable TIR optics (flood, narrow flood and spot).

ELECTRICAL

Lumens / Wattage: 800lm / 14W, 1000lm / 14W, 1500lm / 20W, 2000lm / 24W, 2500lm / 28W

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

CRI: 90+ CRI

Operating Temp.: 0°C to 40°C ambient temperature

Lifetime: 50,000 hours @ L70

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

Dimming: Specified by housing

COMPATIBLE HOUSINGS

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

CATALOG NO.	DESCRIPTION	LUMENS / WATTAGE
NH0ICD-28	ICAT New Construction	800-1000lm / 14W
NH0ICDCP-28	Chicago Plenum	800-1000lm / 14W
NHR0IC-28	ICAT Remodel	800-1000lm / 14W
NH0ICD-215	ICAT New Construction	1500lm / 20W
NH0ICDCP-215	Chicago Plenum	1500lm / 20W
NH0ICD-220	ICAT New Construction	2000lm / 24W
NH0ICDCP-220	Chicago Plenum	2000lm / 24W
NH0ICD-225	ICAT New Construction	2500lm / 28W
NH0ICDCP-225	Chicago Plenum	2500lm / 28W

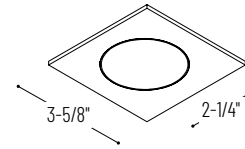
Accessories: Reflectors will accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see accessories page. Flush mount mud ring is available to give the appearance of a trimless reflector, compatible with new construction housing only.

LABELS AND LISTINGS

- cULus Listed for Wet Locations
- ENERGY STAR certified
- [5-Year Limited Warranty](#)
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2019

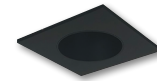


PRODUCT IMAGES & DIMENSIONS



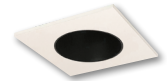
NI0B-2SNDC

Square Reflector with Round Aperture
Non-Adjustable



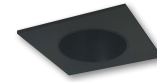
BB

Black Reflector
Black Flange



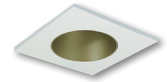
BW

Bronze Reflector
White Flange



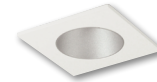
BZ

Bronze Reflector
Bronze Flange



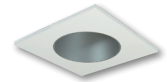
CHMPW

Champagne Haze Reflector
Matte Powder White Flange



HW

Haze Reflector
White Flange



HZMPW

Haze Reflector
Matte Powder White Flange



MPW

Matte Powder White Reflector
Matte Powder White Flange



NN

Natural Metal Reflector
Natural Metal Flange



WW

White Reflector
White Flange

2" Iolite Square Reflector / Round Aperture - Dedicated Housing Required

Reflector Type	Color Temp.	Finish	Lumens / Wattage
NI0B-2SNDC = Square Reflector with Round Aperture	27X = 2700K	BB = Black / Black	(blank) = 800lm / 14W
	30X = 3000K	BW = Black / White	/10 = 1000lm / 14W
	35X = 3500K	BZ = Bronze / Bronze	/HL = 1500-2500lm
	40X = 4000K	CHMPW = Champagne / Matte Powder White	(varies by housing)
	50X = 5000K	HW = Haze / White	
	CDX = Comfort Dim [†]	HZMPW = Haze / Matte Powder White	
		MPW = Matte Powder White	
		NN = Natural Metal / Natural Metal	
		WW = White / White	

[†] Comfort Dim technology available in 800lm & uses non-Cree COB modules. 1" & 2" Iolite uses a different dimming curve than 4" Comfort Dim

Compatible Housings

Housing Type
NH0ICD-28 = ICAT New Construction / 800-1000lm / 14W
NH0ICDCP-28 = Chicago Plenum / 800-1000lm / 14W
NHR0IC-28 = ICAT Remodel / 800-1000lm / 14W
NH0ICD-215 = ICAT New Construction / 1500lm / 20W
NH0ICDCP-215 = Chicago Plenum / 1500lm / 20W
NH0ICD-220 = ICAT New Construction / 2000lm / 24W
NH0ICDCP-220 = Chicago Plenum / 2000lm / 24W
NH0ICD-225 = ICAT New Construction / 2500lm / 28W
NH0ICDCP-225 = Chicago Plenum / 2500lm / 28W

Example: NI0B-2SNDC27XBB = 2" Iolite Square Reflector / Round Aperture, 2700K, Black finish, 800lm / 14W

2" Iolite Accessories

2" Iolite Square Reflector with Round Aperture

Type

Project

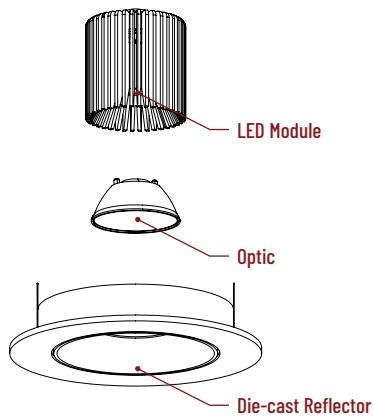
Catalog No.

Notes

FIELD CHANGEABLE OPTICS

Iolite reflectors include spot, narrow flood and flood optics. Optics can be changed in the field by removing LED module from die-cast reflector. Replacement optics include an optional frosted lens.

Note: Frosted filter-optics and Premium TIR optics are not compatible with /HL LED modules.



Frosted Filter-Optic

NIO-REFL15FR
NIO-REFL25FR
NIO-REFL38FR
NIO-REFL60FR

15° Optic
25° Optic
38° Optic
60° Optic

Optic assembly includes optional frosted lens. 25°, 38° and 60° optics are included with 800lm and 1000lm reflector.
Not compatible with /HL LED module.



Premium TIR Optics

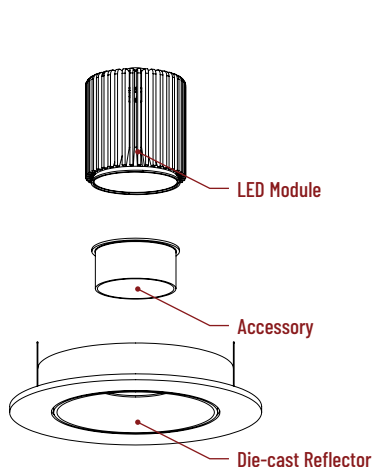
NIO-REFLTIR15
NIO-REFLTIR25

15° Optic
25° Optic

Not compatible with /HL LED module or Comfort Dim (CDX) technology

ACCESSORIES

Iolite accessories can be added at any point in the design process. Accessories easily install between LED module and die-cast reflector. 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:
BLK (black), MPW (matte powder white), WH (white)

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

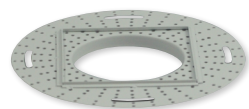


Hex Cell Louver

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

FLUSH MOUNT

2" Iolite reflectors can be installed flush with the drywall for a flush mount appearance. A flush mount mud ring is installed after the drywall and a professional drywall finisher floats the ceiling to blend in the mud ring.



Flush Mount Mud Ring

NIO-FMMR-2S

Square Mud Ring

Mounts trim flush to ceiling with reflector flange visible. Mud ring attaches to drywall. **Only for use with NH10ICD-28 or NH10ICDCP-28 new construction housings and NIOB-2S reflectors.**
Dimensions: 7-7/8" diameter 1/2" thick

PHOTOMETRICS

2" Iolite Square Reflector with Round Aperture 800 lumens

Type

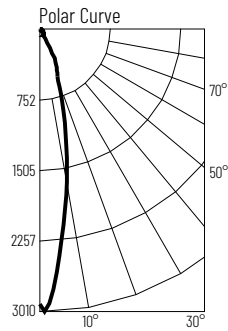
Project

Catalog No.

Notes

Test Information

Test Number: NTR11267
Part Number: NI0B-2RNDC30XWW
Beam Spread: 23° Spot
Lumens: 831lm
Wattage: 14.04W
Efficacy: 59lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.38
Spacing Criteria (90°-270): 0.4



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	183fc	1'-7"
6'	81.5fc	2'-5"
8'	45.8fc	3'-2"
10'	29.3fc	4'
12'	20.4fc	4'-10"

Zonal Lumen Summary

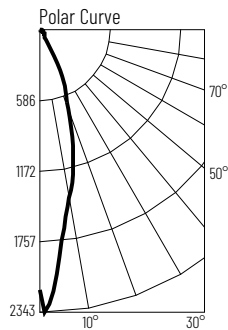
Zone	Lumens	% Luminaire
0-30	661	79.6
0-40	712	85.7
0-60	790	95.1
0-90	828	99.6
90-180	3	0.4
0-180	831	100

Candela Table

Vertical Angles	Candela
0	2933
5	2325
15	1007
25	417
35	72
45	57

Test Information

Test Number: NTR11266
Part Number: NI0B-2RNDC30XWW
Beam Spread: 29° Narrow Flood
Lumens: 812lm
Wattage: 14.16W
Efficacy: 57lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.48
Spacing Criteria (90°-270): 0.5



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	135fc	2'
6'	60fc	2'-11"
8'	33.7fc	3'-11"
10'	21.6fc	4'-11"
12'	15fc	5'-11"

Zonal Lumen Summary

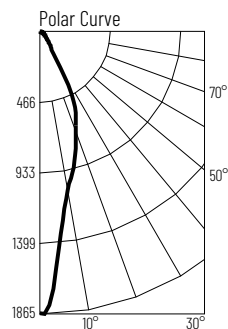
Zone	Lumens	% Luminaire
0-30	642	79.1
0-40	693	85.4
0-60	772	95.1
0-90	811	99.8
90-180	2	0.2
0-180	812	100

Candela Table

Vertical Angles	Candela
0	2158
5	1690
15	1032
25	448
35	70
45	56

Test Information

Test Number: NTR11268
Part Number: NI0B-2RNDC30XWW
Beam Spread: 28° Flood
Lumens: 834lm
Wattage: 14.23W
Efficacy: 59lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.44
Spacing Criteria (90°-270): 0.44



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	116fc	2'
6'	51.7fc	2'-11"
8'	29.1fc	3'-11"
10'	18.6fc	4'-11"
12'	12.9fc	5'-11"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	608	72.9
0-40	698	83.7
0-60	789	94.6
0-90	832	99.8
90-180	2	0.2
0-180	834	100

Candela Table

Vertical Angles	Candela
0	1860
5	1441
15	888
25	549
35	133
45	66

Lumen Output Multipliers

Color Temperature: 2700K (0.97), 3000K (1.00), 3500K (1.04), 4000K (1.16), 5000K (1.17)

PHOTOMETRICS

2" Iolite Square Reflector with Round Aperture 1000 lumens

Type

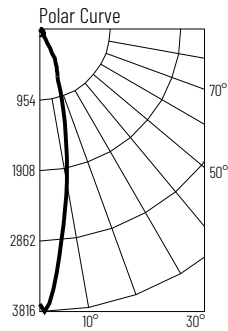
Project

Catalog No.

Notes

Test Information

Test Number: NTR11271
Part Number: NI0B-2RNDC30XWW/10
Beam Spread: 23° Spot
Lumens: 1090lm
Wattage: 13.1W
Efficacy: 83lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.4
Spacing Criteria (90°-270): 0.4



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	237fc	1'-7"
6'	105fc	2'-6"
8'	59.2fc	3'-4"
10'	37.9fc	4'-1"
12'	26.3fc	4'-11"

Zonal Lumen Summary

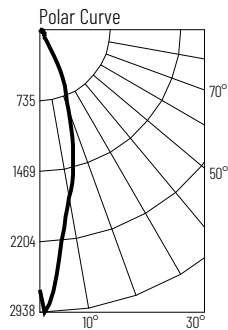
Zone	Lumens	% Luminaire
0-30	869	79.7
0-40	935	85.8
0-60	1037	95.1
0-90	1086	99.6
90-180	4	0.4
0-180	1090	100

Candela Table

Vertical Angles	Candela
0	3788
5	3107
15	1341
25	547
35	95
45	74

Test Information

Test Number: NTR11270
Part Number: NI0B-2RNDC30XWW/10
Beam Spread: 29° Narrow Flood
Lumens: 1058lm
Wattage: 13.1W
Efficacy: 81lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.48
Spacing Criteria (90°-270): 0.5



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	174fc	2'
6'	77.3fc	3'
8'	43.5fc	4'-1"
10'	27.8fc	5'-1"
12'	19.3fc	6'-1"

Zonal Lumen Summary

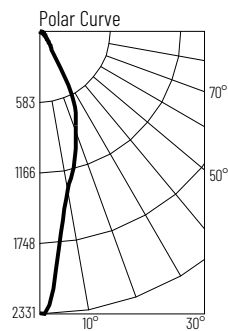
Zone	Lumens	% Luminaire
0-30	833	78.8
0-40	900	85.1
0-60	1003	94.8
0-90	1054	99.7
90-180	4	0.3
0-180	1058	100

Candela Table

Vertical Angles	Candela
0	2782
5	2171
15	1340
25	591
35	92
45	74

Test Information

Test Number: NTR11269
Part Number: NI0B-2RNDC30XWW/10
Beam Spread: 29° Flood
Lumens: 1070lm
Wattage: 13.1W
Efficacy: 82lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.44
Spacing Criteria (90°-270): 0.46



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	146fc	2'
6'	64.8fc	3'
8'	36.4fc	4'-1"
10'	23.3fc	5'-1"
12'	16.2fc	6'-1"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	777	72.6
0-40	895	83.6
0-60	1012	94.6
0-90	1068	99.8
90-180	2	0.2
0-180	1070	100

Candela Table

Vertical Angles	Candela
0	2331
5	1821
15	1131
25	706
35	175
45	85

Lumen Output Multipliers

Color Temperature: 2700K (0.98), 3000K (1.00), 3500K (1.09), 4000K (1.19), 5000K (1.16)

PHOTOMETRICS

2" Iolite Square Reflector with Round Aperture
1500 lumens

Type

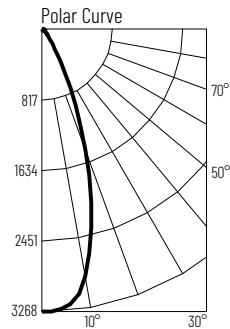
Project

Catalog No.

Notes

Test Information

Test Number: NTR1422
Part Number: NIOB-2RND030XWW/HL
Beam Spread: 38° Spot
Lumens: 1667lm
Wattage: 19.8W
Efficacy: 84lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.64
Spacing Criteria (90°-270): 0.64



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	90.8fc	4'-1"
8'	51.1fc	5'-6"
10'	32.7fc	6'-11"
12'	22.7fc	8'-4"
14'	16.7fc	9'-7"

Zonal Lumen Summary

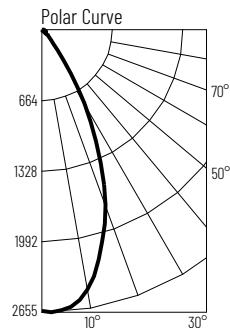
Zone	Lumens	% Luminaire
0-30	1315	78.9
0-40	1473	88.4
0-60	1600	96
0-90	1662	99.7
90-180	5	0.3
0-180	1667	100

Candela Table

Vertical Angles	Candela
0	3267
5	3216
15	2243
25	862
35	246
45	90

Test Information

Test Number: NTR1425
Part Number: NIOB-2RND030XWW/HL
Beam Spread: 48° Narrow Flood
Lumens: 1843lm
Wattage: 19.86W
Efficacy: 93lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.78
Spacing Criteria (90°-270): 0.8



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	73.4fc	5'-5"
8'	41.3fc	7'-1"
10'	26.4fc	8'-11"
12'	18.3fc	10'-8"
14'	13.5fc	12'-6"

Zonal Lumen Summary

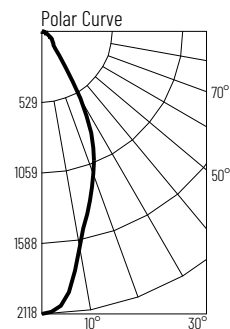
Zone	Lumens	% Luminaire
0-30	1401	76
0-40	1663	90.2
0-60	1783	96.8
0-90	1838	99.7
90-180	5	0.3
0-180	1843	100

Candela Table

Vertical Angles	Candela
0	2642
5	2600
15	2101
25	1236
35	401
45	93

Test Information

Test Number: NTR1428
Part Number: NIOB-2RND030XWW/HL
Beam Spread: 44° Flood
Lumens: 1416lm
Wattage: 19.65W
Efficacy: 72lpw
CCT / CRI: 3000K / 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
6'	58.8fc	4'-10"
8'	33.1fc	6'-5"
10'	21.2fc	8'
12'	14.7fc	9'-7"
14'	10.8fc	11'-2"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	971	68.6
0-40	1159	81.9
0-60	1329	93.8
0-90	1413	99.8
90-180	3	0.2
0-180	1416	100

Candela Table

Vertical Angles	Candela
0	2118
5	2012
15	1366
25	901
35	273
45	122

Lumen Output Multipliers

Color Temperature: 2700K (0.92), 3000K (1.00), 3500K (1.1), 4000K (1.12), 5000K (1.18)

PHOTOMETRICS

2" Iolite Square Reflector with Round Aperture 2000 lumens

Type

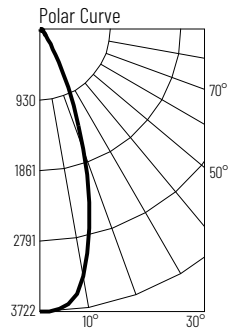
Project

Catalog No.

Notes

Test Information

Test Number: NTR1423
Part Number: NIOB-2RND30XWW/HL
Beam Spread: 38° Spot
Lumens: 1892lm
Wattage: 23.54W
Efficacy: 80lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.64
Spacing Criteria (90°-270): 0.64



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	58.1fc	5'-6"
10'	37.2fc	6'-11"
12'	25.8fc	8'-4"
14'	19fc	9'-8"
16'	14.5fc	11'

Zonal Lumen Summary

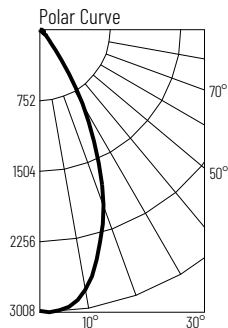
Zone	Lumens	% Luminaire
0-30	1495	79
0-40	1663	87.9
0-60	1816	96
0-90	1886	99.7
90-180	6	0.3
0-180	1892	100

Candela Table

Vertical Angles	Candela
0	3718
5	3663
15	2562
25	973
35	276
45	101

Test Information

Test Number: NTR1426
Part Number: NIOB-2RND30XWW/HL
Beam Spread: 48° Narrow Flood
Lumens: 2088lm
Wattage: 23.6W
Efficacy: 88lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.78
Spacing Criteria (90°-270): 0.8



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	46.8fc	7'-1"
10'	29.9fc	8'-11"
12'	20.8fc	10'-8"
14'	15.3fc	12'-6"
16'	11.7fc	14'-4"

Zonal Lumen Summary

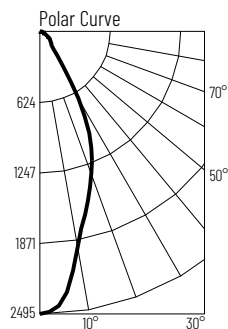
Zone	Lumens	% Luminaire
0-30	1588	76.1
0-40	1885	90.3
0-60	2020	96.8
0-90	2081	99.7
90-180	6	0.3
0-180	2088	100

Candela Table

Vertical Angles	Candela
0	2993
5	2948
15	2381
25	1402
35	453
45	105

Test Information

Test Number: NTR1429
Part Number: NIOB-2RND30XWW/HL
Beam Spread: 44° Flood
Lumens: 1666lm
Wattage: 23.53W
Efficacy: 71lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.66
Spacing Criteria (90°-270): 0.68



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	38.9fc	6'-5"
10'	24.9fc	8'
12'	17.3fc	9'-7"
14'	12.7fc	11'-2"
16'	9.7fc	12'-10"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1142	68.5
0-40	1349	81
0-60	1561	93.7
0-90	1661	99.7
90-180	5	0.3
0-180	1666	100

Candela Table

Vertical Angles	Candela
0	2492
5	2372
15	1606
25	1063
35	320
45	144

Lumen Output Multipliers

Color Temperature: 2700K (0.94), 3000K (1.00), 3500K (1.13), 4000K (1.13), 5000K (1.2)

PHOTOMETRICS

2" Iolite Square Reflector with Round Aperture 2500 lumens

Type

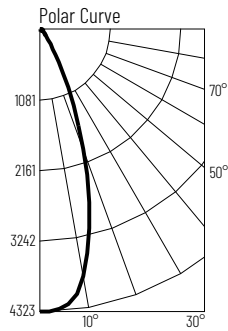
Project

Catalog No.

Notes

Test Information

Test Number: NTR1424
Part Number: NIOB-2RNDC30XWW/HL
Beam Spread: 38° Spot
Lumens: 2142lm
Wattage: 28.47W
Efficacy: 75lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.64
Spacing Criteria (90°-270): 0.64



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	43.fc	6'-10"
12'	30fc	8'-2"
14'	22fc	8'-4"
16'	16.9fc	10'-11"
18'	13.3fc	12'-4"

Zonal Lumen Summary

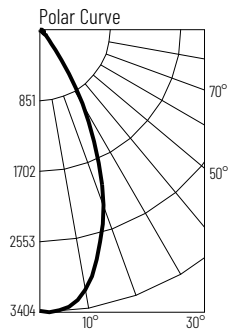
Zone	Lumens	% Luminaire
0-30	1703	79.5
0-40	1886	88.1
0-60	2057	96
0-90	2134	99.6
90-180	8	0.4
0-180	2142	100

Candela Table

Vertical Angles	Candela
0	4318
5	4253
15	2944
25	1076
35	299
45	114

Test Information

Test Number: NTR1427
Part Number: NIOB-2RNDC30XWW/HL
Beam Spread: 48° Narrow Flood
Lumens: 2359lm
Wattage: 28.08W
Efficacy: 84lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.78
Spacing Criteria (90°-270): 0.8



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	33.8fc	8'-11"
12'	23.5fc	10'-8"
14'	20.8fc	10'-8"
16'	13.2fc	14'-4"
18'	10.4fc	16'

Zonal Lumen Summary

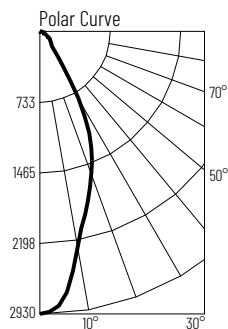
Zone	Lumens	% Luminaire
0-30	1796	76.1
0-40	2130	90.3
0-60	2283	96.8
0-90	2352	99.7
90-180	7	0.3
0-180	2359	100

Candela Table

Vertical Angles	Candela
0	3385
5	3331
15	2691
25	1583
35	508
45	118

Test Information

Test Number: NTR1430
Part Number: NIOB-2RNDC30XWW/HL
Beam Spread: 44° Flood
Lumens: 1950lm
Wattage: 28.32W
Efficacy: 69lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 0.66
Spacing Criteria (90°-270): 0.68



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
10'	29.1fc	8'
12'	20.2fc	9'-7"
14'	17.3fc	9'-7"
16'	11.4fc	12'-10"
18'	9fc	14'-5"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1336	68.5
0-40	1579	80.9
0-60	1827	93.7
0-90	1945	99.7
90-180	6	0.3
0-180	1950	100

Candela Table

Vertical Angles	Candela
0	2910
5	2763
15	1878
25	1243
35	371
45	168

Lumen Output Multipliers

Color Temperature: 2700K (0.96), 3000K (1.00), 3500K (1.14), 4000K (1.16), 5000K (1.24)