

NIO-4RC

4" Iolite Round Adjustable Cone Reflector

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

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

4" Iolite reflectors can be specified for use with Iolite new construction or remodel housings. Die-cast adjustable cone reflectors optimize visual cut-off and adjustable to aim the light source in desired direction.

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.: Specified by housing

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
NHIOICD-48	ICAT New Construction	800-1000lm / 14W
NHIOICDCP-48	Chicago Plenum	800-1000lm / 14W
NHRIOIC-48	ICAT Remodel	800-1000lm / 14W
NHIOICD-415	ICAT New Construction	1500lm / 20W
NHIOICDCP-415	Chicago Plenum	1500lm / 20W
NHIOICD-420	ICAT New Construction	2000lm / 24W
NHIOICDCP-420	Chicago Plenum	2000lm / 24W
NHIOICD-425	ICAT New Construction	2500lm / 28W
NHIOICDCP-425	Chicago Plenum	2500lm / 28W

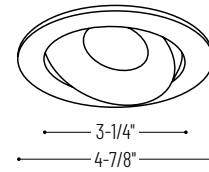
Accessories: Reflectors will accommodate (1) hex louver and (1) translucent deco collar or opaque snoot, no accessory holder is required, see accessories page. Flush mount mud ring is available to give the appearance of a trimless reflector, compatible with new construction housings only.

LABELS AND LISTINGS

- cULus Listed for Damp Locations
- ENERGY STAR certified
- [5-Year Limited Warranty](#)
- RoHS Compliant
- Can be used to comply with 2019 Title 24 - part 6 High Efficacy LED light source requirements



PRODUCT IMAGES & DIMENSIONS



NIO-4RC

Round Adjustable Cone Regressed Reflector

Adjustability:

New Construction: 45° (800-1000lm) / 28° (1500-2500lm)

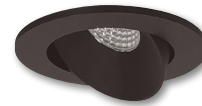
Remodel: 40° (800-1000lm)



BB
Black Reflector
Black Flange



BW
Black Reflector
White Flange



BZ
Bronze Reflector
Bronze 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

4" Iolite Round Adjustable Cone Reflector - Dedicated Housing Required

Reflector Type	Color Temp.	Finish	Lumens / Wattage
NIO-4RC = Round Adjustable Cone	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	HW = Haze / White	(varies by housing)
	50X = 5000K	HZMPW = Haze / Matte Powder White	
	CDX = Comfort Dim [†]	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
NHIOICD-48 = ICAT New Construction / 800-1000lm / 14W
NHIOICDCP-48 = Chicago Plenum / 800-1000lm / 14W
NHRIOIC-48 = ICAT Remodel / 800-1000lm / 14W
NHIOICD-415 = ICAT New Construction / 1500lm / 20W
NHIOICDCP-415 = Chicago Plenum / 1500lm / 20W
NHIOICD-420 = ICAT New Construction / 2000lm / 24W
NHIOICDCP-420 = Chicago Plenum / 2000lm / 24W
NHIOICD-425 = ICAT New Construction / 2500lm / 28W
NHIOICDCP-425 = Chicago Plenum / 2500lm / 28W

Example: **NIO-4RC27XWW** = 4" Iolite Round Adjustable Cone Regress Reflector, 2700K, White finish, 800lm / 14W

4" Iolite Accessories

4" Iolite Round Adjustable Cone Reflector

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	15° Optic
NIO-REFL25FR	25° Optic
NIO-REFL38FR	38° Optic
NIO-REFL60FR	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	15° Optic
NIO-REFLTIR25	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
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Hex cell louver subtly reduces aperture brightness by reducing light output by about 20%.

FLUSH MOUNT

4" 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-4R	Round Mud Ring
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Mounts reflector flush to ceiling with flange visible. Mud ring attaches to drywall. **Only for use with NH10ICD-48 or NH10ICDCP-48 new construction housings and NIO-4R reflectors.** Dimensions: 7-7/8" diameter 1/2" thick



PHOTOMETRICS

4" Iolite Round Adjustable Cone Reflector
800 lumens

Type

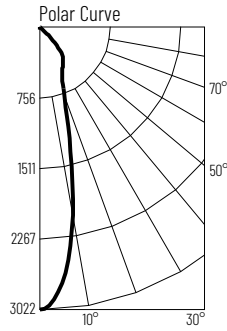
Project

Catalog No.

Notes

Test Information

Test Number: NTR1338
Part Number: N10-4RC40XWW
Beam Spread: 26° Spot
Lumens: 1294lm
Wattage: 13.96W
Efficacy: 93pw
CCT / CRI: 4000K / 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'	187fc	1'-10"
6'	83.3fc	2'-10"
8'	46.9fc	3'-8"
10'	30fc	4'-7"
12'	20.8fc	5'-6"

Zonal Lumen Summary

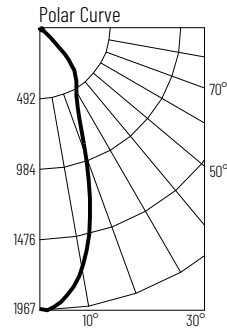
Zone	Lumens	% Luminaire
0-30	844	65.2
0-40	1111	85.9
0-60	1281	99
0-90	1292	99.9
90-180	2	0.1
0-180	1294	100

Candela Table

Vertical Angles	Candela
0	3000
5	2700
15	1193
25	556
35	426
45	194

Test Information

Test Number: NTR1339
Part Number: N10-4RC40XWW
Beam Spread: 39° Narrow Flood
Lumens: 1329lm
Wattage: 13.98W
Efficacy: 95pw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180): 0.64
Spacing Criteria (90°-270): 0.66



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"

Zonal Lumen Summary

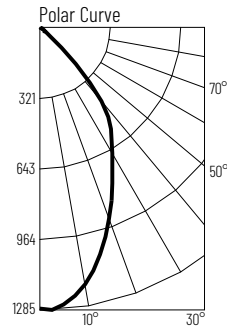
Zone	Lumens	% Luminaire
0-30	848	63.9
0-40	1125	84.6
0-60	1304	98.2
0-90	1323	99.6
90-180	6	0.4
0-180	1329	100

Candela Table

Vertical Angles	Candela
0	1967
5	1876
15	1342
25	637
35	441
45	195

Test Information

Test Number: NTR1340
Part Number: N10-4RC40XWW
Beam Spread: 61° Flood
Lumens: 1348lm
Wattage: 14.07W
Efficacy: 96pw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180): 0.86
Spacing Criteria (90°-270): 0.88



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'

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
90-180	6	0.4
0-180	1348	100

Candela Table

Vertical Angles	Candela
0	1276
5	1244
15	1050
25	768
35	553
45	222

Lumen Output Multipliers

Color Temperature: 2700K (0.83), 3000K (0.86), 3500K (0.89), 4000K (1.00), 5000K (1.01)

PHOTOMETRICS

4" Iolite Round Adjustable Cone Reflector 1000 lumens

Type

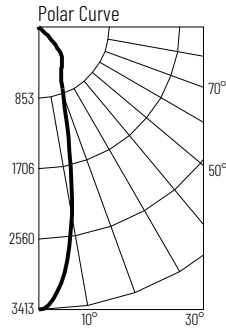
Project

Catalog No.

Notes

Test Information

Test Number: NTR
Part Number: NI0-4RC40XWW/10
Beam Spread: 26° Spot
Lumens: 1484lm
Wattage: 13.41W
Efficacy: 111pw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180): 0.46
Spacing Criteria (90°-270): 0.46



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	213fc	1'-11"
6'	94.8fc	2'-10"
8'	53.3fc	3'-8"
10'	34.1fc	4'-8"
12'	23.7fc	5'-7"

Zonal Lumen Summary

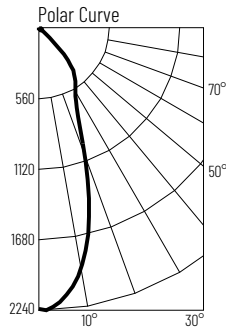
Zone	Lumens	% Luminaire
0-30	968	65.2
0-40	1274	85.9
0-60	1471	99.1
0-90	1482	99.9
90-180	2	0.1
0-180	1484	100

Candela Table

Vertical Angles	Candela
0	3413
5	3107
15	1389
25	648
35	495
45	222

Test Information

Test Number: NTR
Part Number: NI0-4RC40XWW/10
Beam Spread: 38° Narrow Flood
Lumens: 1482lm
Wattage: 13.5W
Efficacy: 110pw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180): 0.64
Spacing Criteria (90°-270): 0.66



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	139fc	2'-10"
6'	61.9fc	4'-2"
8'	34.8fc	5'-6"
10'	22.3fc	6'-11"
12'	15.5fc	8'-4"

Zonal Lumen Summary

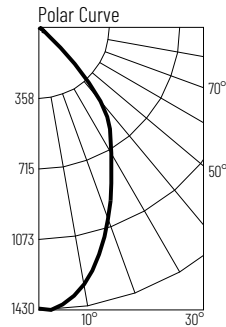
Zone	Lumens	% Luminaire
0-30	953	64.3
0-40	1235	83.3
0-60	1462	98.7
0-90	1480	99.8
90-180	2	0.2
0-180	1482	100

Candela Table

Vertical Angles	Candela
0	2228
5	2133
15	1512
25	707
35	499
45	218

Test Information

Test Number: NTR
Part Number: NI0-4RC40XWW/10
Beam Spread: 61° Flood
Lumens: 1500lm
Wattage: 13.47W
Efficacy: 111pw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180): 0.86
Spacing Criteria (90°-270): 0.88



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'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	855	57
0-40	1239	82.6
0-60	1468	97.9
0-90	1494	99.6
90-180	6	0.4
0-180	1500	100

Candela Table

Vertical Angles	Candela
0	1423
5	1392
15	1174
25	854
35	619
45	247

Lumen Output Multipliers

Color Temperature: 2700K (0.82), 3000K (0.84), 3500K (0.92), 4000K (1.00), 5000K (0.97)

PHOTOMETRICS

4" Iolite Round Adjustable Cone Reflector 1500 lumens

Type

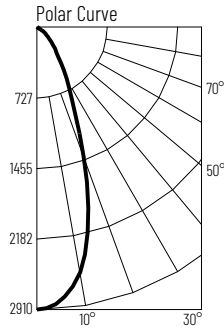
Project

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Notes

Test Information

Test Number: NTR1273
Part Number: NI0-4RC40XWW/HL
Beam Spread: 39° Spot
Lumens: 1829lm
Wattage: 19.5W
Efficacy: 94pw
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
4'	182fc	2'-11"
6'	80.8fc	4'-4"
8'	45.5fc	5'-8"
10'	29.1fc	7'-2"
12'	20.2fc	8'-7"

Zonal Lumen Summary

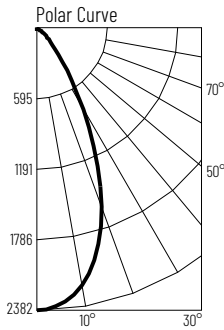
Zone	Lumens	% Luminaire
0-30	1251	68.4
0-40	1518	83
0-60	1773	96.9
0-90	1817	99.3
90-180	12	0.7
0-180	1829	100

Candela Table

Vertical Angles	Candela
0	2910
5	2827
15	2058
25	913
35	421
45	209

Test Information

Test Number: NTR1274
Part Number: NI0-4RC40XWW/HL
Beam Spread: 50° Narrow Flood
Lumens: 1883lm
Wattage: 19.35W
Efficacy: 97pw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180): 0.8
Spacing Criteria (90°-270): 0.8



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	149fc	3'-8"
6'	66.2fc	5'-7"
8'	37.2fc	7'-5"
10'	23.8fc	9'-4"
12'	16.5fc	11'-2"

Zonal Lumen Summary

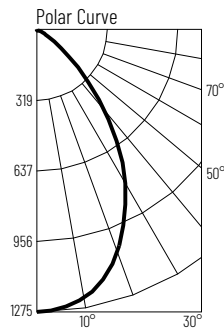
Zone	Lumens	% Luminaire
0-30	1302	69.1
0-40	1617	85.9
0-60	1836	97.5
0-90	1871	99.4
90-180	12	0.6
0-180	1883	100

Candela Table

Vertical Angles	Candela
0	2382
5	2339
15	1956
25	1188
35	489
45	178

Test Information

Test Number: NTR1275
Part Number: NI0-4RC40XWW/HL
Beam Spread: 70° Flood
Lumens: 1717lm
Wattage: 19.73W
Efficacy: 87pw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180): 1.02
Spacing Criteria (90°-270): 1.02



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	79.7fc	5'-8"
6'	35.4fc	8'-6"
8'	19.9fc	11'-5"
10'	12.7fc	14'-2"
12'	8.9fc	17'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	877	51.1
0-40	1245	72.5
0-60	1650	96.1
0-90	1706	99.4
90-180	11	0.6
0-180	1717	100

Candela Table

Vertical Angles	Candela
0	1275
5	1262
15	1168
25	938
35	649
45	330

Lumen Output Multipliers

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

PHOTOMETRICS

4" Iolite Round Adjustable Cone Reflector 2000 lumens

Type

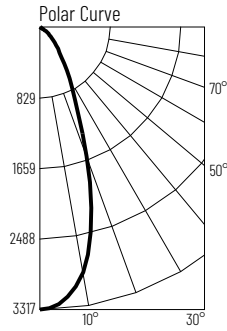
Project

Catalog No.

Notes

Test Information

Test Number: NTR1274
 Part Number: NI0-4RC40XWW/HL
 Beam Spread: 39° Spot
 Lumens: 2085lm
 Wattage: 24.09W
 Efficacy: 87pw
 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
4'	207fc	2'-11"
6'	92.1fc	4'-4"
8'	51.8fc	5'-8"
10'	33.2fc	7'-2"
12'	23fc	8'-7"

Zonal Lumen Summary

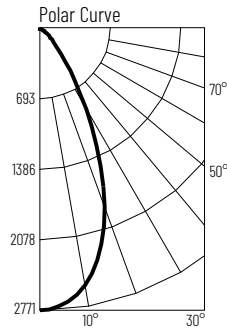
Zone	Lumens	% Luminaire
0-30	1425	68.4
0-40	1730	83
0-60	2021	96.9
0-90	2071	99.3
90-180	14	0.7
0-180	2085	100

Candela Table

Vertical Angles	Candela
0	3317
5	3221
15	2347
25	1042
35	480
45	238

Test Information

Test Number: NTR1275
 Part Number: NI0-4RC40XWW/HL
 Beam Spread: 50° Narrow Flood
 Lumens: 2190lm
 Wattage: 23.22W
 Efficacy: 94pw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180): 0.8
 Spacing Criteria (90°-270): 0.8



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	173fc	3'-8"
6'	77fc	5'-7"
8'	43.3fc	7'-5"
10'	27.7fc	9'-4"
12'	19.2fc	11'-2"

Zonal Lumen Summary

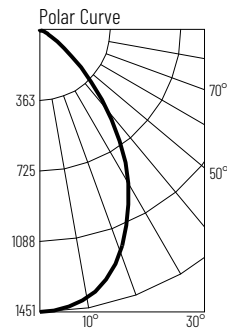
Zone	Lumens	% Luminaire
0-30	1515	69.2
0-40	1881	85.9
0-60	2136	97.5
0-90	2176	99.4
90-180	14	0.6
0-180	2190	100

Candela Table

Vertical Angles	Candela
0	2771
5	2723
15	2277
25	1382
35	567
45	207

Test Information

Test Number: NTR1280
 Part Number: NI0-4RC40XWW/HL
 Beam Spread: 70° Flood
 Lumens: 1954lm
 Wattage: 24.49W
 Efficacy: 80pw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180): 1.02
 Spacing Criteria (90°-270): 1.02



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	90.7fc	5'-8"
6'	40.3fc	8'-6"
8'	22.7fc	11'-5"
10'	14.5fc	14'-2"
12'	10.1fc	17'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	998	51.1
0-40	1417	72.5
0-60	1877	96.1
0-90	1941	99.3
90-180	13	0.7
0-180	1954	100

Candela Table

Vertical Angles	Candela
0	1451
5	1435
15	1327
25	1067
35	739
45	375

Lumen Output Multipliers

Color Temperature: 2700K (0.84), 3000K (0.87), 3500K (0.99), 4000K (1.00), 5000K (1.07)

PHOTOMETRICS

4" Iolite Round Adjustable Cone Reflector 2500 lumens

Type

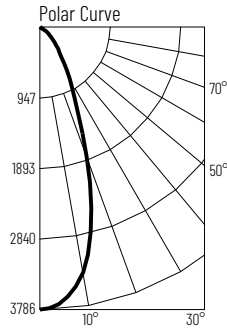
Project

Catalog No.

Notes

Test Information

Test Number: NTR1275
Part Number: NI0-4RC40XWW/HL
Beam Spread: 39° Spot
Lumens: 2368lm
Wattage: 28.24W
Efficacy: 84pw
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
4'	237fc	2'-11"
6'	105fc	4'-4"
8'	59.2fc	5'-8"
10'	37.9fc	7'-2"
12'	26.3fc	8'-7"

Zonal Lumen Summary

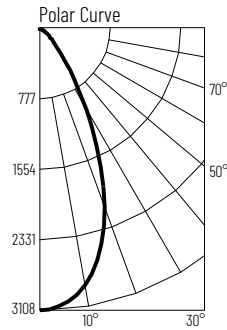
Zone	Lumens	% Luminaire
0-30	1624	68.6
0-40	1943	82
0-60	2300	97.1
0-90	2355	99.4
90-180	13	0.6
0-180	2368	100

Candela Table

Vertical Angles	Candela
0	3786
5	3678
15	2681
25	1183
35	544
45	271

Test Information

Test Number: NTR1276
Part Number: NI0-4RC40XWW/HL
Beam Spread: 50° Narrow Flood
Lumens: 2460lm
Wattage: 27.72W
Efficacy: 89pw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180): 0.8
Spacing Criteria (90°-270): 0.8



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	194fc	3'-8"
6'	86.3fc	5'-7"
8'	48.6fc	7'-5"
10'	31.1fc	9'-4"
12'	21.6fc	11'-2"

Zonal Lumen Summary

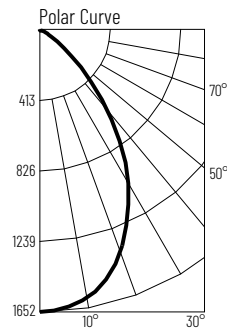
Zone	Lumens	% Luminaire
0-30	1699	69.1
0-40	2111	85.8
0-60	2398	97.5
0-90	2444	99.3
90-180	16	0.7
0-180	2460	100

Candela Table

Vertical Angles	Candela
0	318
5	3054
15	2552
25	1550
35	637
45	233

Test Information

Test Number: NTR1281
Part Number: NI0-4RC40XWW/HL
Beam Spread: 70° Flood
Lumens: 2226lm
Wattage: 27.77W
Efficacy: 80pw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180): 1.02
Spacing Criteria (90°-270): 1.02



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'

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
90-180	15	0.7
0-180	2226	100

Candela Table

Vertical Angles	Candela
0	1652
5	1635
15	1511
25	1216
35	841
45	428

Lumen Output Multipliers

Color Temperature: 2700K (0.82), 3000K (0.89), 3500K (0.99), 4000K (1.00), 5000K (1.05)