

NIO-4RND

4" Iolite Round Reflector

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

PRODUCT DESCRIPTION

4" Iolite LED downlights require a dedicated Iolite new construction or remodel housing. Deep regressed cone reflectors optimize visual cut-off.

FEATURES

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

SPECIFICATION

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

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

OPTICS

800-1000lm: Three field changeable optics (spot, narrow flood and flood) are included with each LED module. Premium 10° TIR narrow spot optic assembly also available ([Click Here](#) for more information). Optional frosted and TIR optics are also available.

1500-2500lm: Three field changeable TIR optics (spot, narrow flood and flood) are included with each LED module.

ELECTRICAL

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

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

Color Rendering Index: 90+ CRI

Operating Temperature: Specified by housing

Lifetime: 50,000 hours @ L70

Comfort Dim: Comfort Dim color tunes the temperature from a bright 3100K (800lm) or 3000K (HL), to a romantic and comfortable 2000K on a gradual, even curve. Available in 800lm or HL (1500lm-2500lm).

Dimming: Specified by housing

COMPATIBLE HOUSINGS

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

CATALOG NO.	DESCRIPTION	LUMENS / WATTAGE
NHIOICD-48	ICAT New Construction	800-1000lm / 14W
NHIOICDP-48	Chicago Plenum	800-1000lm / 14W
NHRIOIC-48	ICAT Remodel	800-1000lm / 14W
NHIOICD-415	ICAT New Construction	1500lm / 20W
NHIOICDP-415	Chicago Plenum	1500lm / 20W
NHIOICD-420	ICAT New Construction	2000lm / 24W
NHIOICDP-420	Chicago Plenum	2000lm / 24W
NHIOICD-425	ICAT New Construction	2500lm / 28W
NHIOICDP-425	Chicago Plenum	2500lm / 28W

Accessories: Luminaires can 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, compatible with new construction housing only.

LABELS AND LISTINGS

- cULus Listed for Wet Locations
- 5-Year Limited Warranty
- RoHS Compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2025



4" Iolite Round Reflector with Round Aperture - Dedicated Housing Required

Color Temperature	Reflector Finish / Flange Finish	Lumens / Wattage
NIO-4RND50X = 5000K*	BB = Matte Black / Matte Black	(blank) = 800lm / 14W
NIO-4RNDCCDX = Comfort Dim†	BS = Specular Black / Specular Black	
	BZ = Bronze / Bronze	/10 = 1000lm / 14W
NIO-4RND27X = 2700K	CHMPW = Champagne / Bright White	/HL = 1500-2500lm (varies by housing)
NIO-4RND30X = 3000K	CMPW = Specular Clear / Bright White	
NIO-4RND35X = 3500K	HW = Haze / Warm White	
NIO-4RND40X = 4000K	HZMPW = Haze / Bright White	
NIO-4RND50X = 5000K	MPW = Bright White / Bright White	
NIO-4RNDCCDX = Comfort Dim†	NN = Natural Metal / Natural Metal	
	WD = Wheat Diffused / Wheat Diffused	
	WW = Warm White / Warm White	

* 5000K LED modules in 800lm are while supplies last

† 2" & 4" Comfort Dim uses a different dimming curve than 1" Iolite

Example: **NIO-4RND50XMPW** = 4" Iolite Round Reflector with Round Aperture, 5000K, Bright White Reflector / Bright White Flange, 800lm

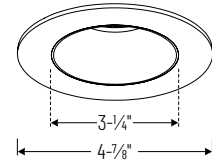
Type

Project

Catalog No.

Notes

PRODUCT IMAGES & DIMENSIONS



BB
Matte Black Reflector
Matte Black Flange



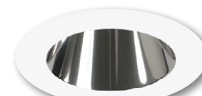
BS
Specular Black Reflector
Specular Black Flange



BZ
Bronze Reflector
Bronze Flange



CHMPW
Champagne Haze Reflector
Bright White Flange



CMPW
Specular Clear Reflector
Bright White Flange



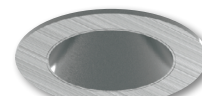
HW
Haze Reflector
Warm White Flange



HZMPW
Haze Reflector
Bright White Flange



MPW
Bright White Reflector
Bright White Flange



NN
Natural Metal Reflector
Natural Metal Flange



WD
Wheat Diffused Reflector
Wheat Diffused Flange



WW
Warm White Reflector
Warm White Flange

Compatible Housings

Housing Type

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

4" Iolite Accessories

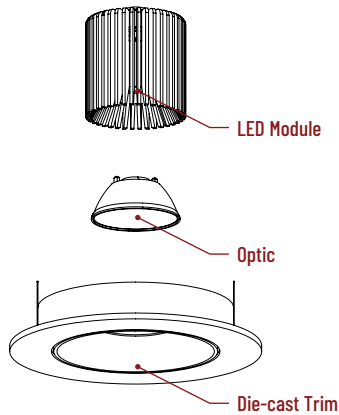
4" Iolite Round Reflector

Type	
Project	
Catalog No.	
Notes	

FIELD CHANGEABLE OPTICS

Iolite luminaires include spot, narrow flood and flood optics. Optics can be changed in the field by removing LED module from die-cast trim. Optional frosted and TIR optics are also available.

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



Frosted Optics

NIO-REFL38FR
NIO-REFL60FR

60° Optic
73° Optic

Not compatible with /HL LED module.

Premium TIR Optics

NIO-REFLTIR15
NIO-REFLTIR25

22° Optic
26° Optic

Not compatible with /HL, Comfort Dim (CDX) LED modules or Hex Cell Louver.

10° TIR Optic Assembly

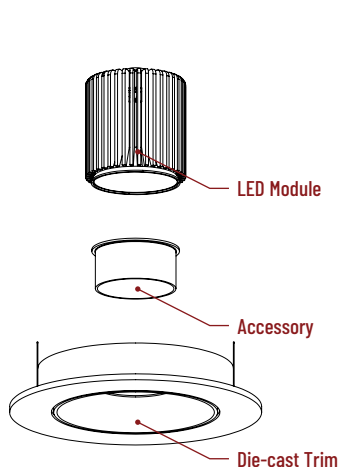
Specialized narrow spot LED module assembly is also available. Requires LE4 housing. [Click Here](#) for more information.



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-ASI4WH 5/8" length / warm white finish
NIO-ASI9MPW 3/4" length / bright white finish
NIO-ASI9WH 3/4" length / warm white finish

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 50%.

Hex cell louver is not compatible with TIR optics.

FLUSH MOUNT

4" Iolite trims 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

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



PHOTOMETRICS

4" Iolite Round Reflector

1000 lumens

Type

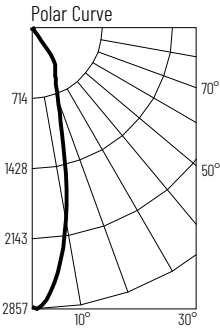
Project

Catalog No.

Notes

Test Information

Test Number: NTR2222R2
Part Number: NIO-4RNDC30XWW/10
Beam Spread: 27° Spot
Lumens: 1114lm
Wattage: 13.65W
Efficacy: 82lpw
CCT / CRI: 3000K / 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'	179fc	1'-11"
6'	79.4fc	2'-11"
8'	44.6fc	3'-11"
10'	28.6fc	4'-10"
12'	19.8fc	5'-8"

Zonal Lumen Summary

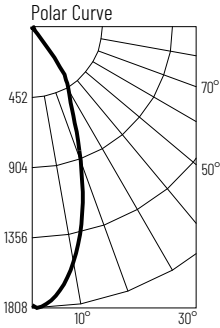
Zone	Lumens	% Luminaire
0-30	850	76.3
0-40	1026	92.1
0-60	1092	98.1
0-90	1114	100
90-180	0	0
0-180	1114	100

Candela Table

Vertical Angles	Candela
0	2857
5	2583
15	1231
25	590
35	323
45	52

Test Information

Test Number: NTR2223R2
Part Number: NIO-4RNDC30XWW/10
Beam Spread: 43° Narrow Flood
Lumens: 1122lm
Wattage: 13.65W
Efficacy: 82lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.7
Spacing Criteria (90°-270°): 0.7



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	113fc	3'-2"
6'	50.2fc	4'-8"
8'	28.2fc	6'-4"
10'	18.1fc	7'-11"
12'	12.6fc	9'-6"

Zonal Lumen Summary

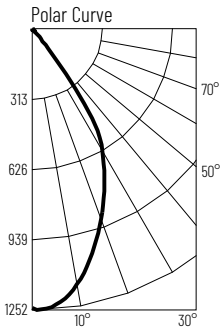
Zone	Lumens	% Luminaire
0-30	849	75.7
0-40	1028	91.7
0-60	1098	97.9
0-90	1122	100
90-180	0	0
0-180	1122	100

Candela Table

Vertical Angles	Candela
0	1808
5	1737
15	1341
25	676
35	290
45	49

Test Information

Test Number: NTR2224R2
Part Number: NIO-4RNDC30XWW/10
Beam Spread: 59° Flood
Lumens: 1115lm
Wattage: 13.65W
Efficacy: 82lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180°): 0.9
Spacing Criteria (90°-270°): 0.9



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	78.3fc	4'-6"
6'	34.8fc	6'-8"
8'	19.6fc	9'
10'	12.5fc	11'-2"
12'	8.7fc	13'-6"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	773	69.3
0-40	1008	90.4
0-60	1089	97.6
0-90	1115	100
90-180	0	0
0-180	1115	100

Candela Table

Vertical Angles	Candela
0	1252
5	1233
15	1095
25	786
35	393
45	60

Lumen Output Multipliers

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

PHOTOMETRICS

4" Iolite Round Reflector

1500 lumens

Type

Project

Catalog No.

Notes

Test Information

Test Number: NTR1659R1

Part Number: N10-4RNDC30XWW/HL

Beam Spread: 42° Spot

Lumens: 1744lm

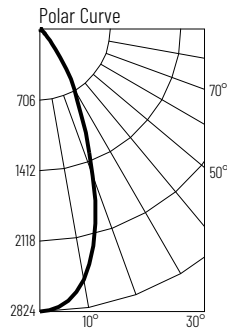
Wattage: 19.4W

Efficacy: 90lpw

CCT / CRI: 3000K / 90 CRI

Spacing Criteria (0°-180°): 0.7

Spacing Criteria (90°-270°): 0.7



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	78.4fc	4'-8"
8'	44.1fc	6'-4"
10'	28.2fc	7'-10"
12'	19.6fc	9'-5"
14'	14.4fc	10'-11"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1318	75.5
0-40	1574	90.3
0-60	1698	97.3
0-90	1733	99.4
90-180	11	0.6
0-180	1744	100

Candela Table

Vertical Angles	Candela
0	2824
5	2755
15	2126
25	1043
35	417
45	100

Test Information

Test Number: NTR1661R1

Part Number: N10-4RNDC30XWW/HL

Beam Spread: 54° Narrow Flood

Lumens: 1915lm

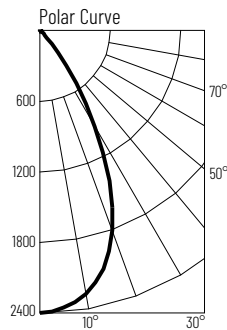
Wattage: 19.4W

Efficacy: 99lpw

CCT / CRI: 3000K / 90 CRI

Spacing Criteria (0°-180°): 0.88

Spacing Criteria (90°-270°): 0.86



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	66.7fc	6'-1"
8'	37.5fc	8'-2"
10'	24fc	10'-2"
12'	16.7fc	12'-4"
14'	12.2fc	14'-4"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1422	74.3
0-40	1765	92.1
0-60	1879	98.1
0-90	1903	99.4
90-180	12	0.6
0-180	1915	100

Candela Table

Vertical Angles	Candela
0	2400
5	2365
15	2095
25	1408
35	547
45	86

Test Information

Test Number: NTR1663R1

Part Number: N10-4RNDC30XWW/HL

Beam Spread: 66° Flood

Lumens: 1591lm

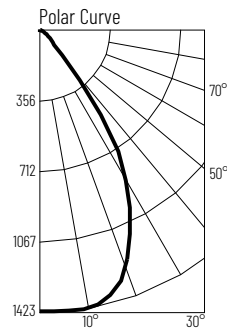
Wattage: 19.26W

Efficacy: 83lpw

CCT / CRI: 3000K / 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
6'	39.4fc	7'-10"
8'	22.1fc	10'-6"
10'	14.2fc	13'-1"
12'	9.8fc	15'-8"
14'	7.2fc	18'-4"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1016	63.9
0-40	1354	85.1
0-60	1533	96.4
0-90	1582	99.5
90-180	9	0.6
0-180	1591	100

Candela Table

Vertical Angles	Candela
0	1417
5	1420
15	1383
25	1083
35	594
45	104

Lumen Output Multipliers

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

PHOTOMETRICS

4" Iolite Round Reflector

2000 lumens

Type

Project

Catalog No.

Notes

Test Information

Test Number: NTR1660R1

Part Number: N10-4RNDC30XWW/HL

Beam Spread: 43° Spot

Lumens: 2047lm

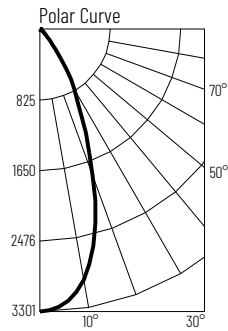
Wattage: 23.38W

Efficacy: 88lpw

CCT / CRI: 3000K / 90 CRI

Spacing Criteria (0°-180°): 0.7

Spacing Criteria (90°-270°): 0.7



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
12'	22.9fc	9'-5"
14'	16.8fc	11'
16'	12.9fc	12'-7"
18'	10.2fc	14'-1"
20'	8.3fc	15'-8"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1545	75.5
0-40	1847	90.3
0-60	1992	97.3
0-90	2034	99.4
90-180	13	0.6
0-180	2047	100

Candela Table

Vertical Angles	Candela
0	3301
5	3208
15	2461
25	1248
35	481
45	117

Test Information

Test Number: NTR1662R1

Part Number: N10-4RNDC30XWW/HL

Beam Spread: 54° Narrow Flood

Lumens: 2249lm

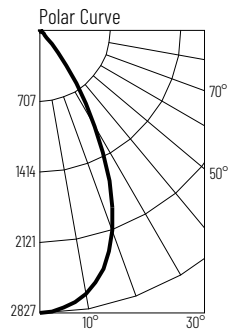
Wattage: 23.4W

Efficacy: 96lpw

CCT / CRI: 3000K / 90 CRI

Spacing Criteria (0°-180°): 0.88

Spacing Criteria (90°-270°): 0.86



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
12'	19.6fc	12'-4"
14'	14.4fc	14'-4"
16'	11fc	16'-4"
18'	8.7fc	18'-5"
20'	7.1fc	20'-5"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1671	74.3
0-40	2072	92.1
0-60	2206	98.1
0-90	2234	99.4
90-180	15	0.6
0-180	2249	100

Candela Table

Vertical Angles	Candela
0	2827
5	2783
15	2473
25	1652
35	628
45	107

Test Information

Test Number: NTR1664R1

Part Number: N10-4RNDC30XWW/HL

Beam Spread: 66° Flood

Lumens: 1878lm

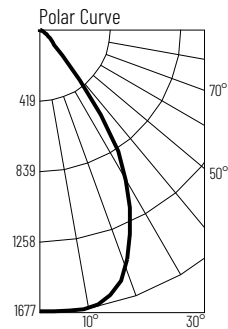
Wattage: 23.43W

Efficacy: 80lpw

CCT / CRI: 3000K / 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
12'	11.6fc	15'-8"
14'	8.5fc	18'-4"
16'	6.5fc	20'-11"
18'	5.2fc	23'-6"
20'	4.2fc	26'-1"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1199	63.9
0-40	1598	85.1
0-60	1808	96.4
0-90	1867	99.5
90-180	11	0.6
0-180	1878	100

Candela Table

Vertical Angles	Candela
0	1672
5	1675
15	1628
25	1278
35	700
45	121

Lumen Output Multipliers

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

PHOTOMETRICS

4" Iolite Round Reflector

2500 lumens

Type

Project

Catalog No.

Notes

Test Information

Test Number: NTR1829R1

Part Number: N10-4RNDC30XWW/HL

Beam Spread: 43° Spot

Lumens: 2430lm

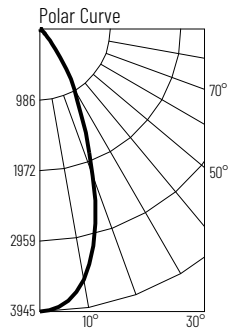
Wattage: 27.39W

Efficacy: 89lpw

CCT / CRI: 3000K / 90 CRI

Spacing Criteria (0°-180°): 0.7

Spacing Criteria (90°-270°): 0.7



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
12'	27.3fc	9'-6"
14'	20.1fc	11'-1"
16'	15.4fc	12'-8"
18'	12.1fc	14'-4"
20'	9.8fc	15'-10"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1859	76.5
0-40	2193	90.2
0-60	2378	97.9
0-90	2425	99.8
90-180	5	0.2
0-180	2430	100

Candela Table

Vertical Angles	Candela
0	3934
5	3827
15	2977
25	1474
35	516
45	122

Test Information

Test Number: NTR1830R1

Part Number: N10-4RNDC30XWW/HL

Beam Spread: 54° Narrow Flood

Lumens: 2618lm

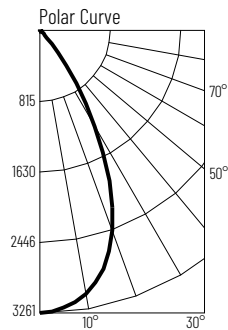
Wattage: 27.44W

Efficacy: 95lpw

CCT / CRI: 3000K / 90 CRI

Spacing Criteria (0°-180°): 0.88

Spacing Criteria (90°-270°): 0.86



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
12'	22.6fc	12'-5"
14'	16.6fc	14'-6"
16'	12.7fc	16'-7"
18'	10.1fc	18'-7"
20'	8.2fc	20'-8"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1945	74.3
0-40	2421	92.5
0-60	2581	98.6
0-90	2613	99.8
90-180	5	0.2
0-180	2618	100

Candela Table

Vertical Angles	Candela
0	3259
5	3196
15	2826
25	1921
35	773
45	144

Test Information

Test Number: NTR1831R1

Part Number: N10-4RNDC30XWW/HL

Beam Spread: 66° Flood

Lumens: 2223lm

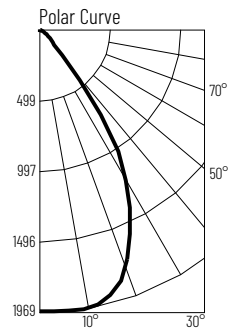
Wattage: 27.34W

Efficacy: 82lpw

CCT / CRI: 3000K / 90 CRI

Spacing Criteria (0°-180°): 1.06

Spacing Criteria (90°-270°): 1.04



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
12'	13.7fc	14'-11"
14'	10fc	17'-5"
16'	7.7fc	19'-11"
18'	6.1fc	22'-5"
20'	4.9fc	24'-11"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	1439	64.4
0-40	1946	87.2
0-60	2160	96.8
0-90	2229	99.8
90-180	4	0.2
0-180	2232	100

Candela Table

Vertical Angles	Candela
0	1969
5	1970
15	1951
25	1586
35	844
45	143

Lumen Output Multipliers

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