

NLCBC-469

4" Cobalt Retrofit Adjustable Reflector

Source: 12W LED
 900lm

PRODUCT DESCRIPTION

Cobalt retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. The adjustable design rotates and adjusts while never exposing an opening or breaking the ceiling plane. The luminaires produce over 900 lumens, drawing 12W at 90+ CRI. The Cobalt series intergrates a Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption.

FEATURES

- Retrofit existing 4" recessed housings
- Field adjustable beam spreads (flood installed, spot and narrow flood included)
- Over 800 lumen output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- Cree® COB LED Technology
- Integral dimmable driver
- Includes medium base socket adapter
- ENERGY STAR certified

SPECIFICATION

Trim: Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output. Adjustable design rotates and adjusts while never exposing an opening or breaking the ceiling plane. Reflector places the LED optics deeper than the standard increasing the visual comfort. Additionally the deep cones reduces board images when off.

Adjustability: 358° rotate and 30° tilt

Optics: Spot (included), Medium (included) and Flood optic (installed)

Lens: Frosted Lens (installed) and Semi-Frosted Lens (included)

ELECTRICAL

Input Voltage: 120V

Lumens / Wattage: 900lm / 12W

(Delivered lumens will vary depending on CCT, beam spread and finish)

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

CRI: 90+CRI

Operating Temp.: 0°C to 25°C ambient temperature

Dimming: Available in Triac/ELV/0-10V, must specify

[Click Here](#) or check complete dimmer list at www.NoraLighting.com

in the "Compatibility" page under "Resources" tab

COMPATIBLE HOUSINGS

Cobalt retrofit reflectors are compatible with most 4" IC and Non-IC housings by Nora and others.

Fire Box

- NFBIC-4LMRAT*** ICAT Dedicated LED
- NFBIC-4LMRAT/4W** ICAT Dedicated LED for LE4
- NFBIC-4INCAT** ICAT Line Voltage

New Construction

- NHIC-4LMRAT*** ICAT Dedicated LED
- NHIC-4LMRAT/4W*** ICAT Dedicated LED for LE4
- NHIC-4LMRAT/EM*** ICAT Dedicated LED for EM
- NHIC-4LMRAT/6WEM*** ICAT Dedicated LED for EM+LE4
- NSIC-401QAT** ICAT Line Voltage
- NS-401QAT** AT Line Voltage
- NHIC-4G24AT** ICAT GU24

Remodel

- NHRIC-4LMRAT*** ICAT Dedicated LED
- NSRIC-404QAT** ICAT Line Voltage
- NSR-404QAT** AT Line Voltage
- NHRIC-4G24AT** ICAT GU24

* Nora Dedicated LED housings are cULus listed for use only with Nora LED Retrofits.

Retrofit: Cobalt retrofit series includes medium base screw-socket adapter (NRA-211SM) for retrofitting into existing medium base downlight housings. GU24 socket adapter is available for use with GU24 housings, must specify NRA-212SM.

LABELS AND LISTINGS

- cULus classified for Damp Location when used with compatible frame-in
- Suitable for Type IC and Non-IC
- Can be used to comply with 2016 Title 24 - part 6 High Efficacy LED light source requirements
- ENERGY STAR certified
- RoHs Compliant
- [5-Year Limited Warranty](#)



PRODUCT IMAGES AND DIMENSIONS



4" Cobalt Retrofit Adjustable Reflector

Reflector Type	Color Temp.	Finish	Dimming & Emergency
NLCBC-469 = Round Adjustable	27X = 2700K	BB = Black / Black	(blank) = 120V Triac/ELV
	30X = 3000K	BZBZ = Bronze / Bronze	EM = Remote Emergency (requires Nora EM housing)
	35X = 3500K	HZN = Haze / Natural Metal	
	40X = 4000K	HZW = Haze / White	
NLCBC-469 = Round Adjustable	30X = 3000K 35X = 3500K	MPW = Matte Powder White	LE4 = 120V 0-10V/Triac/ELV 277V 0-10V LE4EM = LE4 w/ Remote Emergency (requires Nora EM housing)
		WW = White / White	
		HZW = Haze / White	
		WW = White / White	

Optional Accessories

Description	
NRA-211SM = Medium base screw-in socket (included)	NRA-212SM = Socket adapter for use with GU24 housings
NRA-211SM Medium base screw-in socket (included)	NRA-212SM Socket adapter for use with GU24 housings



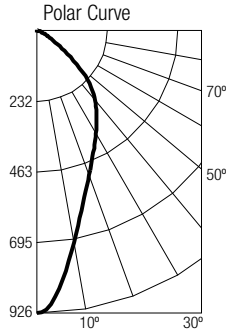
Example: **NLCBC-46935XWW** = 4" Cobalt Adjustable Retrofit Reflector, 900lm / 12W, 3500K, White Finish

PHOTOMETRICS

4" Cobalt Retrofit Adjustable Reflector

Test Information

Test Number: NTR11157
 Part Number: NLCBC-46940SWW
 Beam Spread: Spot
 Lumens: 1011lm
 Wattage: 11.4W
 Efficacy: 89lpw
 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'	57.9fc	3'-5"
6'	25.7fc	5'-1"
8'	14.5fc	6'-10"
10'	9.3fc	8'-6"
12'	6.4fc	10'-4"

Zonal Lumen Summary

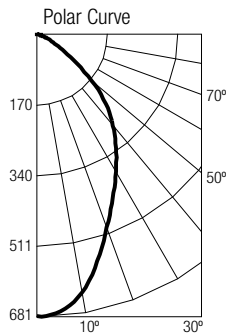
Zone	Lumens	% Luminaire
0-30	446	44.1
0-40	661	65.4
0-60	842	93.2
0-90	1004	99.4
90-180	6	0.6
0-180	1011	100

Candela Table

Vertical Angles	Candela
0	926
5	850
15	588
25	441
35	343
45	246

Test Information

Test Number: NTR11156
 Part Number: NLCBC-46940MWW
 Beam Spread: Narrow Flood
 Lumens: 988lm
 Wattage: 11.5W
 Efficacy: 86lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180): 0.9
 Spacing Criteria (90°-270): 0.92



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	42.4fc	5'-6"
6'	18.9fc	8'-4"
8'	10.6fc	11'
10'	6.8fc	13'-10"
12'	4.7fc	16'-6"

Zonal Lumen Summary

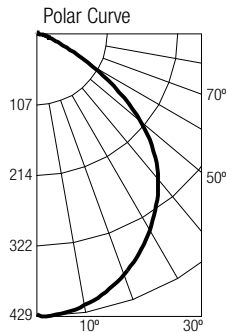
Zone	Lumens	% Luminaire
0-30	424	42.9
0-40	634	64.2
0-60	916	92.7
0-90	981	99.2
90-180	7	0.8
0-180	988	100

Candela Table

Vertical Angles	Candela
0	679
5	670
15	566
25	437
35	335
45	239

Test Information

Test Number: NTR11155
 Part Number: NLCBC-46940FWW
 Beam Spread: Flood
 Lumens: 943lm
 Wattage: 11.5W
 Efficacy: 82lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180): 1.2
 Spacing Criteria (90°-270): 1.22



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	26.6fc	9'-2"
6'	11.8fc	13'-10"
8'	6.7fc	18'-5"
10'	4.3fc	23'-1"
12'	3fc	27'-8"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	323	34.3
0-40	520	55.2
0-60	848	89.9
0-90	935	99.2
90-180	8	0.8
0-180	943	100

Candela Table

Vertical Angles	Candela
0	426
5	425
15	404
25	366
35	315
45	251

Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.96), 3500K (0.96), 4000K (1.00)

NLCBC-569

5" Cobalt Retrofit Adjustable Reflector

Source: 14W LED
1000lm

PRODUCT DESCRIPTION

Cobalt retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. The adjustable design rotates and adjusts while never exposing an opening or breaking the ceiling plane. The luminaires produce over 1000 lumens, drawing 14W at 90+ CRI. The Cobalt series integrates a Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption.

FEATURES

- Retrofit existing 5" recessed housings
- Field adjustable beam spreads (flood installed, spot and narrow flood included)
- Over 1000 lumen output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- Cree® COB LED Technology
- Integral dimmable driver
- Includes medium base socket adapter
- ENERGY STAR certified

SPECIFICATION

Trim: Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output. Adjustable design rotates and adjusts while never exposing an opening or breaking the ceiling plane. Reflector places the LED optics deeper than the standard increasing the visual comfort. Additionally the deep cones reduce board images when off.

Adjustability: 358° rotate and 30° tilt

Optics: Spot (included), Medium (included) and Flood optic (installed)

Lens: Frosted Lens (installed) and Semi-Frosted Lens (included)

ELECTRICAL

Input Voltage: 120V

Lumens / Wattage: 1000lm / 14W

(Delivered lumens will vary depending on CCT, beam spread and finish)

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

CRI: 90+CRI

Operating Temp.: 0°C to 25°C ambient temperature

Dimming: Triac/ELV

[Click Here](#) or check complete dimmer list at www.NoraLighting.com

in the "Compatibility" page under "Resources" tab

COMPATIBLE HOUSINGS

Cobalt retrofit reflectors are compatible with most 4" IC and Non-IC housings by Nora and others.

Fire Box

- NFBIC-5LMRAT*** ICAT Dedicated LED
- NFBIC-5INCAT** ICAT Line Voltage

New Construction

- NHIC-527LMRAT*** Shallow ICAT Dedicated LED
- NHIC-5LMRAT*** ICAT Dedicated LED
- NHIC-5LMRAT/EM*** ICAT Dedicated LED for EM
- NHIC-527QAT** Shallow ICAT Line Voltage
- NHIC-501QAT** ICAT Line Voltage
- NH-501Q** Non-IC Line Voltage
- NHIC-5G24ATFL** ICAT GU24

Remodel

- NHRIC-527LMRAT*** Shallow ICAT Dedicated LED
- NHRIC-5LMRAT*** ICAT Dedicated LED
- NHRIC-527QAT** Shallow ICAT Line Voltage
- NHRIC-504QAT** ICAT Line Voltage
- NHR-504Q** Non-IC Line Voltage
- NHRIC-5G24ATFL** ICAT GU24

* Nora Dedicated LED housings are cULus listed for use only with Nora LED Retrofits.

Retrofit: Cobalt retrofit series includes medium base screw-socket adapter (NRA-211SM) for retrofitting into existing medium base downlight housings. GU24 socket adapter is available for use with GU24 housings, must specify NRA-212SM.

LABELS AND LISTINGS

- cULus classified for Damp Location when used with compatible frame-in
- Suitable for Type IC and Non-IC
- Can be used to comply with 2016 Title 24 - part 6 High Efficacy LED light source requirements
- ENERGY STAR certified
- RoHS Compliant
- 5-Year Limited Warranty



PRODUCT IMAGES AND DIMENSIONS



5" Cobalt Retrofit Adjustable Reflector

Reflector Type	Color Temp.	Finish	Dimming & Emergency
NLCBC-569 = Round Adjustable	27X = 2700K	BB = Black / Black	(blank) = 120V Triac/ELV EM = Remote Emergency (requires Nora EM housing)
	30X = 3000K	BZBZ = Bronze / Bronze	
	35X = 3500K	HZN = Haze / Natural Metal	
	40X = 4000K	HZW = Haze / White	
		MPW = Matte Powder White	
		WW = White / White	

Optional Accessories

Description	
NRA-211SM = Medium base screw-in socket (included)	
NRA-212SM = Socket adapter for use with GU24 housings	
NRA-211SM Medium base screw-in socket (included)	NRA-212SM Socket adapter for use with GU24 housings



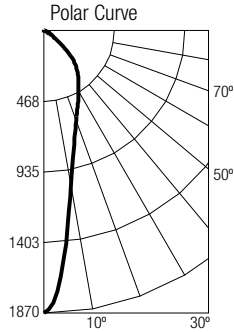
Example: **NLCBC-56927XWW** = 5" Cobalt Retrofit Adjustable Reflector, 1000lm / 14W, 2700K, White Finish

PHOTOMETRICS

5" Cobalt Retrofit Adjustable Reflector

Test Information

Test Number: NTR11163
 Part Number: NLCBC-56940SWW
 Beam Spread: Spot
 Lumens: 1236lm
 Wattage: 13.2W
 Efficacy: 93lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180): 0.4
 Spacing Criteria (90°-270): 0.38



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	117fc	1'-8"
6'	52fc	2'-6"
8'	29.2fc	3'-4"
10'	18.7fc	4'-1"
12'	13fc	5'

Zonal Lumen Summary

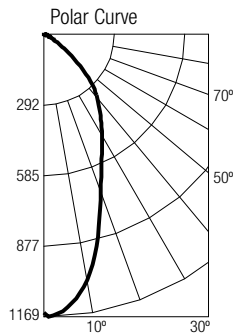
Zone	Lumens	% Luminaire
0-30	597	48.3
0-40	849	68.7
0-60	1157	93.6
0-90	1224	99
90-180	12	1
0-180	1236	100

Candela Table

Vertical Angles	Candela
0	1870
5	1528
15	779
25	536
35	403
45	280

Test Information

Test Number: NTR11162
 Part Number: NLCBC-56940MWW
 Beam Spread: Narrow Flood
 Lumens: 1254lm
 Wattage: 13.1W
 Efficacy: 96lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180): 0.74
 Spacing Criteria (90°-270): 0.76



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	72fc	3'-8"
6'	32fc	5'-7"
8'	18fc	7'-5"
10'	11.5fc	9'-4"
12'	8fc	11'-1"

Zonal Lumen Summary

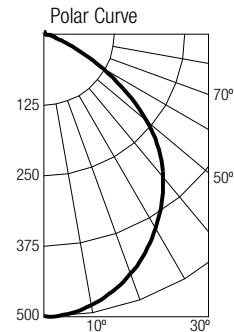
Zone	Lumens	% Luminaire
0-30	612	48.8
0-40	871	69.4
0-60	1180	94.1
0-90	1242	99
90-180	12	1
0-180	1254	100

Candela Table

Vertical Angles	Candela
0	1152
5	1126
15	864
25	574
35	414
45	279

Test Information

Test Number: NTR11161
 Part Number: NLCBC-56940FWW
 Beam Spread: Flood
 Lumens: 1107lm
 Wattage: 13.2W
 Efficacy: 84lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180): 1.2
 Spacing Criteria (90°-270): 1.2



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	31.2fc	9'-2"
6'	13.8fc	13'-11"
8'	7.8fc	18'-6"
10'	5fc	23'-1"
12'	3.5fc	27'-8"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	376	34
0-40	604	54.5
0-60	988	89.3
0-90	1095	98.9
90-180	12	1.1
0-180	1107	100

Candela Table

Vertical Angles	Candela
0	499
5	497
15	473
25	426
35	364
45	290

Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.96), 3500K (0.96), 4000K (1.00)

NLCBC-669

6" Cobalt Retrofit Adjustable Reflector

Source: 14W LED
 1000lm

PRODUCT DESCRIPTION

Cobalt retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. The adjustable design rotates and adjusts while never exposing an opening or breaking the ceiling plane. The luminaires produce over 1000 lumens, drawing 14W at 90+ CRI. The Cobalt series integrates a Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption.

FEATURES

- Retrofit existing 6" recessed housings
- Field adjustable beam spreads (flood installed, spot and narrow flood included)
- Over 1000 lumen output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- Cree® COB LED Technology
- Integral dimmable driver
- Includes medium base socket adapter
- ENERGY STAR certified

SPECIFICATION

Trim: Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output. Adjustable design rotates and adjusts while never exposing an opening or breaking the ceiling plane. Reflector places the LED optics deeper than the standard increasing the visual comfort. Additionally the deep cones reduces board images when off.

Adjustability: 358° rotate and 30° tilt

Optics: Spot (included), Medium (included) and Flood optic (installed)

Lens: Frosted Lens (installed) and Semi-Frosted Lens (included)

ELECTRICAL

Input Voltage: 120V

Lumens / Wattage: 1000lm / 14W

(Delivered lumens will vary depending on CCT, beam spread and finish)

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

CRI: 90+CRI

Operating Temp.: 0°C to 45°C ambient temperature

Dimming: Available in Triac/ELV0-10V, must specify

[Click Here](#) or check complete dimmer list at www.NoraLighting.com in the "Compatibility" page under "Resources" tab

COMPATIBLE HOUSINGS

Cobalt retrofit reflectors are compatible with most 4" IC and Non-IC housings by Nora and others.

Fire Box

- NFBIC-6LMRAT*** ICAT Dedicated LED
- NFBIC-6LMRAT/4W** ICAT Dedicated LED for LE4
- NFBIC-6INCAT** ICAT Line Voltage

New Construction

- NHIC-27LMRAT*** Shallow ICAT Dedicated LED
- NHIC-6LMRAT*** ICAT Dedicated LED
- NHIC-6LMRAT/4W*** ICAT Dedicated LED for LE4
- NHIC-6LMRAT/EM*** ICAT Dedicated LED for EM
- NHIC-6LMRAT/6WEM*** ICAT Dedicated LED for EM+LE4
- NHIC-27QAT** Shallow ICAT Line Voltage
- NHIC-17QAT** ICAT Line Voltage
- NH-26Q** Non-IC Line Voltage
- NHIC-6G24ATFL** ICAT GU24

Remodel

- NHRIC-27LMRAT*** Shallow ICAT Dedicated LED
- NHRIC-6LMRAT*** ICAT Dedicated LED
- NHRIC-27QAT** Shallow ICAT Line Voltage
- NHRIC-17QAT** ICAT Line Voltage
- NHR-26Q** Non-IC Line Voltage
- NHRIC-6G24ATFL** ICAT GU24

* Nora Dedicated LED housings are cULus listed for use only with Nora LED Retrofits.

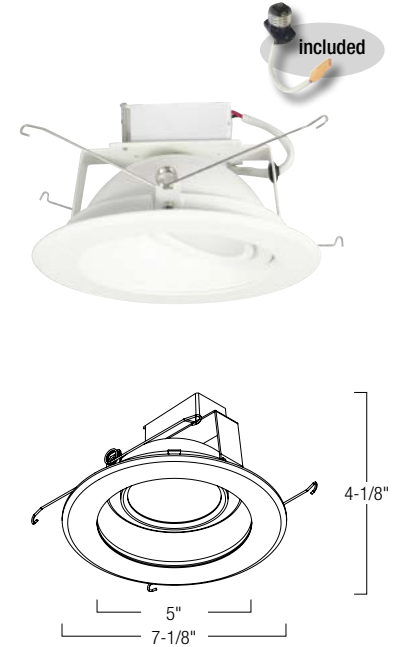
Retrofit: Cobalt retrofit series includes medium base screw-socket adapter (NRA-211SM) for retrofitting into existing medium base downlight housings. GU24 socket adapter is available for use with GU24 housings, must specify NRA-212SM.

LABELS AND LISTINGS

- cULus classified for Damp Location when used with compatible frame-in
- Suitable for Type IC and Non-IC
- Can be used to comply with 2016 Title 24 - part 6 High Efficacy LED light source requirements
- ENERGY STAR certified
- RoHs Compliant
- 5-Year Limited Warranty



PRODUCT IMAGES AND DIMENSIONS



6" Cobalt Retrofit Adjustable Reflector

Reflector Type	Color Temp.	Finish	Dimming & Emergency
NLCBC-669 = Round Adjustable	27X = 2700K	BB = Black / Black	(blank) = 120V Triac/ELV
	30X = 3000K	BZBZ = Bronze / Bronze	EM = Remote Emergency (requires Nora EM housing)
	35X = 3500K	HZN = Haze / Natural Metal	
	40X = 4000K	HZW = Haze / White	
NLCBC-669 = Round Adjustable	30X = 3000K	MPW = Matte Powder White	LE4 = 120V 0-10V/Triac/ELV 277V 0-10V
	35X = 3500K	WW = White / White	LE4EM = LE4 w/ Remote Emergency (requires Nora EM housing)

Optional Accessories

Description	
NRA-211SM = Medium base screw-in socket (included)	
NRA-212SM = Socket adapter for use with GU24 housings	
NRA-211SM Medium base screw-in socket (included)	NRA-212SM Socket adapter for use with GU24 housings

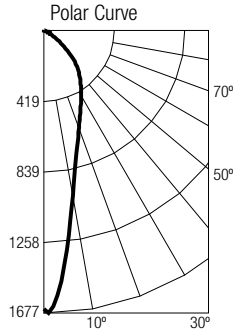
Example: **NLCBC-66935XWW** = 6" Cobalt Adjustable Retrofit Reflector, 1000lm / 14W, 3500K, White Finish

PHOTOMETRICS

6" Cobalt Retrofit Adjustable Reflector

Test Information

Test Number: NTR11169
 Part Number: NLCBC-66940SWW
 Beam Spread: Spot
 Lumens: 1194lm
 Wattage: 13.1W
 Efficacy: 91lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180): 0.42
 Spacing Criteria (90°-270): 0.44



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	57.9fc	3'-5"
6'	25.7fc	5'-1"
8'	14.5fc	6'-10"
10'	9.3fc	8'-6"
12'	6.4fc	10'-4"

Zonal Lumen Summary

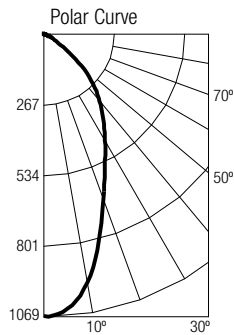
Zone	Lumens	% Luminaire
0-30	568	47.5
0-40	808	67.7
0-60	1114	93.3
0-90	1183	99
90-180	11	1
0-180	1194	100

Candela Table

Vertical Angles	Candela
0	1653
5	1364
15	748
25	515
35	386
45	267

Test Information

Test Number: NTR11168
 Part Number: NLCBC-66940MWW
 Beam Spread: Narrow Flood
 Lumens: 1213lm
 Wattage: 13.1W
 Efficacy: 93lpw
 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
4'	42.4fc	5'-6"
6'	18.9fc	8'-4"
8'	10.6fc	11'
10'	6.8fc	13'-10"
12'	4.7fc	16'-6"

Zonal Lumen Summary

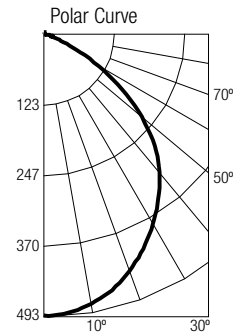
Zone	Lumens	% Luminaire
0-30	579	47.8
0-40	829	68.3
0-60	1136	93.7
0-90	1201	99
90-180	12	1
0-180	1213	100

Candela Table

Vertical Angles	Candela
0	1067
5	1046
15	822
25	554
35	401
45	271

Test Information

Test Number: NTR11167
 Part Number: NLCBC-66940FWW
 Beam Spread: Flood
 Lumens: 1099lm
 Wattage: 13.1W
 Efficacy: 84lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180): 1.22
 Spacing Criteria (90°-270): 1.18



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	26.6fc	9'-2"
6'	11.8fc	13'-10"
8'	6.7fc	18'-5"
10'	4.3fc	23'-1"
12'	3fc	27'-8"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	369	33.6
0-40	592	53.8
0-60	975	88.7
0-90	1087	98.9
90-180	11.8	1.1
0-180	1099	100

Candela Table

Vertical Angles	Candela
0	491
5	490
15	472
25	430
35	372
45	300

Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.96), 3500K (0.96), 4000K (1.00)