### NLCBC-469

4" Cobalt LED Adjustable Retrofit

Source: 12W LED Up to 1000lm

### Type Project Catalog No. Notes

### PRODUCT DESCRIPTION

Cobalt retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. Patented adjustable mechanism rotates and adjusts while never exposing an opening or breaking the ceiling plane. Retrofit luminaires deliver up to 1000 lumens in various color temperature options. Cobalt series integrates the latest COB LED technology, 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)
- Up to 1000 lumen output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- 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: Up to 1000lm / 12W

(Delivered lumens will vary depending on CCT, optic & finish)

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

Color Rendering Index: 90+ CRI

**Beam Spread:** 48° Spot, 69° Narrow Flood, 99° Flood Operating Temperature: 0°C to 25°C

Life Expectancy: 54,000 Hours @ L70 Dimming: Triac, ELV or 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-4LMRATA\* ICAT Dedicated LED NFBIC-4LMRATA/4W ICAT Dedicated LED for LE4 NFBIC-4INCATA ICAT Line Voltage

### **New Construction**

NHIC-4LMRAT\* ICAT Dedicated LFD 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 NHIC-4LMRAT/277\* ICAT Dedicated LED, 277V

(includes step-down transformer)

NHICCP-4LMRAT\* Chicago Plenum Dedicated LED NSIC-401QAT ICAT Line Voltage AT Line Voltage NS-4010AT ICAT GU24 NHIC-4G24AT

#### Remodel

NHRIC-4LMRAT\* ICAT Dedicated LED NSRIC-404QAT ICAT Line Voltage NSR-4040AT 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.

### **ACCESSORIES**

NLCBC-469TIR: Premium TIR optics optics are available in 25° or 45°, must specify ring finish.

### LABELS AND LISTINGS

- cULus classified for Damp Location when used with compatible housing
- Suitable for Type IC and Non-IC
- Certified to the high efficacy requirements of California Title 24 JA8-2019
- ENERGY STAR certified (not BB or BZBZ finish)
- RoHs Compliant
- 5-Year Limited Warranty















Performance Data				
Part Number	Lumens	CCT		
NLCBC-46927XWW	881lm	2700K		
NLCBC-46930XWW	970lm	3000K		
NLCBC-46935XWW	972lm	3500K		
NLCBC-46940XWW	1011lm	4000K		

Delivered lumens will vary depending on CCT, optic and finish

### **PRODUCT IMAGES & DIMENSIONS**



RR Black Reflector Black Flange





H7N Haze Reflector Natural Metal Flange



MPW Matte Powder White Reflector Matte Powder White Flange

**Optional Accessories** 

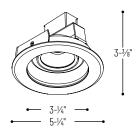


R7R7

HZW Haze Reflector White Flange



White Reflector White Flange



### 4" Cobalt LED Adjustable Retrofit

Color Temperature	Reflector Finish / Flange Finish	Dimming & Emergency	Description	Optic	Ring Finish
NLCBC-46927X = 2700K NLCBC-46930X = 3000K NLCBC-46935X = 3500K NLCBC-46940X = 4000K	BB = Black Reflector / Black Flange BZBZ = Bronze Reflector/ Bronze Flange HZN = Haze Reflector/ Natural Metal Flange HZW = Haze Reflector / White Flange MPW = Matte Powder White Reflector /	(blank) = 120V Triac/ELV EM = Remote Emergency (requires Nora EM housing)	NLCBC-469TIR = TIR optic	<b>25</b> = 25° <b>45</b> = 45°	B = Black BZ = Bronze HZ = Haze MPW = Matte Powder White WW = White / White
NLCBC-46930X = 3000K NLCBC-46935X = 3500K	Matte Powder White Flange  WW = White Reflector / White Flange  HZW = Haze Reflector / White  WW = White Reflector / White	LE4 = 120V 0-10V/Triac/ELV 277V 0-10V (requires Nora 4W housing) LE4EM = LE4 w/ Remote Emergency (requires Nora 6WEM housing)	NRA-211SM = Medium base screw-in socket (included) NRA-212SM = Socket adapter for use with GU24 housings		

Example: NLCBC-46935XWW = 4" Cobalt LED Adjustable Retrofit, 3500K, White Reflector / White Flange, 120V input; Triac / ELV dimming



### **PHOTOMETRICS**

4" Cobalt LED Adjustable Retrofit

Type

Project

Catalog No.

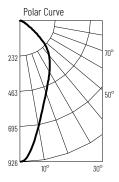
Notes

### **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

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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

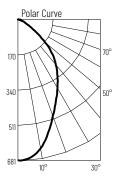
Candela Table		
Vertical Angles	Candela	
0	926	
5	850	
15	588	
25	441	
35	343	
45	246	

### **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

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

### 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

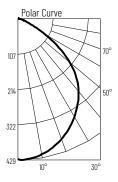
Vertical Angles	Candela
0	679
5	670
15	566
25	437
35	335
45	239

### **Test Information**

Test Number: NTR11155 Part Number: NLCBC-46940FWW Beam Spread: Flood

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

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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 LED Adjustable Retrofit

Source: 14W LED Up to 1200lm

# Catalog No. Notes

Type

Project

### PRODUCT DESCRIPTION

Cobalt retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. Patented adjustable mechanism rotates and adjusts while never exposing an opening or breaking the ceiling plane. Retrofit luminaires deliver up to 1200 lumens in various color temperature options. Cobalt series integrates the latest COB LED technology, 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)
- Up to 1200 lumen output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- 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: Up to 1200lm / 14W

(Delivered lumens will vary depending on CCT, optic & finish)

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

Color Rendering Index: 90+CRI

**Beam Spread:** 23° Spot, 50° Narrow Flood, 99° Flood Operating Temperature: 0°C to 25°C

Life Expectancy: 54,000 Hours @ L70

**Dimming:** Triac or 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 5" IC and Non-IC housings by Nora and others.

#### Fire Box

ICAT Dedicated LED NFBIC-5LMRATA\* NFBIC-5INCATA ICAT Line Voltage

#### **New Construction**

Shallow ICAT Dedicated LED NHIC-527LMRAT\* NHIC-5LMRAT\* ICAT Dedicated LFD NHIC-5LMRAT/EM\* ICAT Dedicated LED for EM ICAT Dedicated LED, 277V NHIC-5LMRAT/277\* (includes step-down transformer)

NHIC-527QAT Shallow ICAT Line Voltage ICAT Line Voltage NHIC-501QAT Non-IC Line Voltage NH-501Q NHIC-5G24ATFL ICAT GU24

#### Remodel

Shallow ICAT Dedicated LED NHRIC-527LMRAT\* NHRIC-5LMRAT\* ICAT Dedicated LED NHRIC-5270AT Shallow ICAT Line Voltage NHRIC-504QAT ICAT Line Voltage NHR-5040 Non-IC Line Voltage

\* 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.

#### **ACCESSORIES**

NLCBC-569TIR: Premium TIR optics optics are available in 15° or 45°, must specify ring finish.

### **LABELS AND LISTINGS**

- cULus classified for Damp Location when used with compatible housing
- Suitable for Type IC and Non-IC
- Certified to the high efficacy requirements of California Title 24 JA8-2019
- ENERGY STAR certified (not BB or BZBZ finish)
- RoHs Compliant
- 5-Year Limited Warranty















#### **Performance Data** Part Number Lumens CCT NLCBC-56927XWW 1092lm 2700K NLCBC-56930XWW 1203lm 3000K NLCBC-56935XWW 1206lm 3500K 4000K NLCBC-56940XWW 1254lm

Delivered lumens will vary depending on CCT, optic and finish

### **PRODUCT IMAGES & DIMENSIONS**



RR Black Reflector

Black Flange



R7R7

Bronze Reflector

Bronze Flange

Haze Reflector Natural Metal Flange



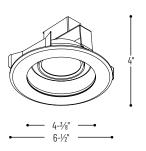
Matte Powder White Reflector Matte Powder White Flange



HZW







### 5" Cobalt LED Adjustable Retrofit

Color Temperature Reflector Finish / Flange Finish NLCBC-56927X = 2700K BB = Black Reflector / Black Flange **NLCBC-56930X** = 3000K BZBZ = Bronze Reflector/ Bronze Flange

**NLCBC-56935X** = 3500K HZN = Haze Reflector/ Natural Metal Flange NI CRC-56940X = 4000K HZW = Haze Reflector / White Flange

MPW = Matte Powder White Reflector / Matte Powder White Flange WW = White Reflector / White Flange

Dimming & Emergency (blank) = 120V Triac/ELV

EM = Remote Emergency (requires Nora EM housing)

### **Optional Accessories**

Description Ring Finish Optic NLCBC-569TIR = TIR optic **15** = 15° B = Black **BZ** = Bronze 45 = 45° **HZ** = Haze MPW = Matte Powder White **WW** = White / White

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

Example: NLCBC-56927XWW = 5" Cobalt LED Adjustable Retrofit, 2700K, White Reflector / White Flange, 120V input; Triac / ELV dimming



### **PHOTOMETRICS**

5" Cobalt LED Adjustable Retrofit

Туре

**Project** 

Catalog No.

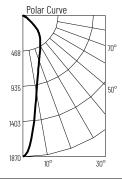
Notes

### **Test Information**

Test Number: NTR11163
Part Number: NLCBC-56940SWW

Part Number: NUBL-56940S Beam Spread: Spot Lumens: 1236lm Wattage: 13.2W Efficacy: 931pw 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

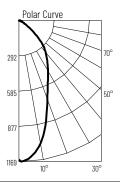
candela Table		
Vertical Angles	Candela	
0	1870	
5	1528	
15	779	
25	536	
35	403	
45	280	

### **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

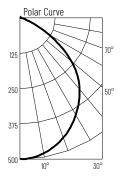
Vertical Angles	Candela
0	1152
5	1126
15	864
25	574
35	414
45	279

### **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 LED Adjustable Retrofit

Source: 14W LED Up to 1200lm

### Type Project Catalog No. Notes

### PRODUCT DESCRIPTION

Cobalt retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. Patented adjustable mechanism rotates and adjusts while never exposing an opening or breaking the ceiling plane. Retrofit luminaires deliver up to 1200 lumens in various color temperature options. Cobalt series integrates the latest COB LED technology, 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)
- Up to 1200 lumen output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- 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: Up to 1200lm / 14W

(Delivered lumens will vary depending on CCT, optic & finish)

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

Color Rendering Index: 90+CRI

**Beam Spread:** 27° Spot, 53° Narrow Flood, 99° Flood Operating Temperature: 0°C to 45°C

Life Expectancy: 54,000 Hours @ L70 Dimming: Triac, ELV or 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 6" IC and Non-IC housings by Nora and others.

#### Fire Box

NFBIC-6LMRATA\* ICAT Dedicated LED NFBIC-6LMRATA/4W ICAT Dedicated LED for LE4 ICAT Line Voltage **NFBIC-6INCATA** 

**New Construction** 

Shallow ICAT Dedicated LED NHIC-27LMRAT\* NHIC-6LMRAT\* ICAT Dedicated LFD 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-6LMRAT/277\* ICAT Dedicated LED, 277V

(includes step-down transformer)

NHICCP-6LMRAT\* Chicago Plenum Dedicated LED NHIC-27QAT Shallow ICAT Line Voltage ICAT Line Voltage NHIC-17QAT Non-IC Line Voltage NH-260 ICAT GU24 NHIC-6G24ATFL

Remodel

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

\* 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.

### **ACCESSORIES**

NLCBC-669TIR: Premium TIR optics optics are available in 15° or 45°, must specify ring finish.

### LABELS AND LISTINGS

- cULus classified for Damp Location when used with compatible housing
- Suitable for Type IC and Non-IC
- Certified to the high efficacy requirements of California Title 24 JA8-2019
- ENERGY STAR certified (not BB or BZBZ finish)
- RoHs Compliant
- 5-Year Limited Warranty













#### **Performance Data** Part Number Lumens CCT NLCBC-66927XWW 1058lm 2700K NLCBC-66930XWW 1164lm 3000K NLCBC-66935XWW 1167lm 3500K 1213lm 4000K NLCBC-66940XWW

Delivered lumens will vary depending on CCT, optic and finish

# **PRODUCT IMAGES & DIMENSIONS** PATENT No.: ncluded

RR Black Reflector Black Flange

R7R7 Bronze Reflector Bronze Flange



H7N Haze Reflector Natural Metal Flange

HZW Haze Reflector White Flange

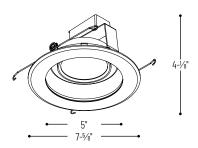




MPW Matte Powder White Reflector Matte Powder White Flange

**Optional Accessories** 

White Reflector White Flange



6"	Cobalt	LED	Adi	justable	Retrofi	t
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Color Temperature	Reflector Finish / Flange Finish	Dimming & Emergency	Description	Optic	Ring Finish
NLCBC-66927X = 2700K NLCBC-66930X = 3000K NLCBC-66935X = 3500K NLCBC-66940X = 4000K	BB = Black Reflector / Black Flange BZBZ = Bronze Reflector/ Bronze Flange HZN = Haze Reflector/ Natural Metal Flange HZW = Haze Reflector / White Flange MPW = Matte Powder White Reflector /	(blank) = 120V Triac/ELV EM = Remote Emergency (requires Nora EM housing)	NLCBC-669TIR = TIR optic	<b>15</b> = 15° <b>45</b> = 45°	B = Black BZ = Bronze HZ = Haze MPW = Matte Powder White WW = White / White
NLCBC-66930X = 3000K NLCBC-66935X = 3500K	Matte Powder White Flange  WW = White Reflector / White Flange  HZW = Haze Reflector / White  WW = White Reflector / White	LE4 = 120V O-10V/Triac/ELV 277V O-10V (requires Nora 4W housing) LE4EM = LE4 w/ Remote Emergency (requires Nora 6WEM housing)	NRA-211SM = Medium ba NRA-212SM = Socket ada		· ·

Example: NLCBC-66935XWW = 6" Cobalt LED Adjustable Retrofit, 3500K, White Reflector / White Flange, 120V input; Triac / ELV dimming



### **PHOTOMETRICS**

6" Cobalt LED Adjustable Retrofit

Туре

**Project** 

Catalog No.

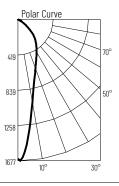
Notes

### **Test Information**

Test Number: NTR11169 Part Number: NLCBC-66940SWW

Beam Spread: Spot Lumens: 1194Im Wattage: 13.1W Efficacy: 91Ipw

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

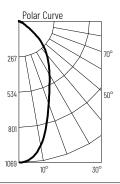
Calluela Lable	
Vertical Angles	Candela
0	1653
5	1364
15	748
25	515
35	386
45	267
	Vertical Angles  0  5  15  25  35

### **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

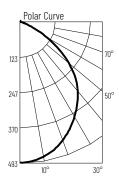
Vertical Angles	Candela
0	1067
5	1046
15	822
25	554
35	401
45	271

## **Test Information**

Test Number: NTR11167 Part Number: NLCBC-66940FWW

Beam Spread: Flood Lumens: 1099Im Wattage: 13.1W Efficacy: 84Ipw 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)