

# NLCBC-669

## 6" Cobalt LED Adjustable Retrofit

Source: 14W LED

Up to 1200lm

### 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

[NFBIC-6INCATA](#)

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-6LMRAT/277\\*](#)

ICAT Dedicated LED, 277V

(includes step-down transformer)

[NHICCP-6LMRAT\\*](#)

Chicago Plenum Dedicated LED

[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

\* 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-21ISM](#)) for retrofitting into existing medium base downlight housings. GU24 socket adapter is available for use with GU24 housings, must specify [NRA-212SM](#).

### ACCESSORIES

[NLCBC-669TIR15](#): 15° Premium TIR optic, 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 JA8-2022
- ENERGY STAR certified (not BB or BZBZ finish)
- RoHs Compliant
- 5-Year Limited Warranty



Type

Project

Catalog No.

Notes

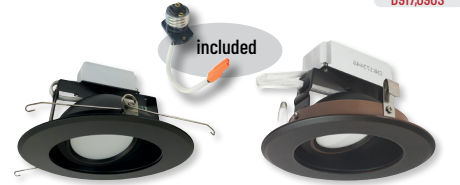
### Performance Data

Part Number	Lumens	CCT
<a href="#">NLCBC-66927XWW</a>	1058lm	2700K
<a href="#">NLCBC-66930XWW</a>	1164lm	3000K
<a href="#">NLCBC-66935XWW</a>	1167lm	3500K
<a href="#">NLCBC-66940XWW</a>	1213lm	4000K

Delivered lumens will vary depending on CCT, optic and finish

### PRODUCT IMAGES & DIMENSIONS

PATENT No.:  
D917,090S



**BB**  
Black Reflector  
Black Flange

**BZBZ**  
Bronze Reflector  
Bronze Flange



**HZN**  
Haze Reflector  
Natural Metal Flange



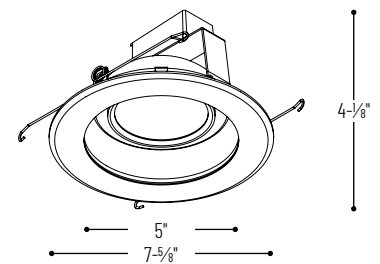
**HZW**  
Haze Reflector  
White Flange



**MPW**  
Matte Powder White Reflector  
Matte Powder White Flange



**WW**  
White Reflector  
White Flange



## 6" Cobalt LED Adjustable Retrofit

Color Temperature	Reflector Finish / Flange Finish	Dimming & Emergency
<a href="#">NLCBC-66927X</a> = 2700K	<b>BB</b> = Black Reflector / Black Flange	<b>(blank)</b> = 120V Triac/ELV
<a href="#">NLCBC-66930X</a> = 3000K	<b>BZBZ</b> = Bronze Reflector/ Bronze Flange	<b>EM</b> = Remote Emergency (requires Nora EM housing)
<a href="#">NLCBC-66935X</a> = 3500K	<b>HZN</b> = Haze Reflector/ Natural Metal Flange	
<a href="#">NLCBC-66940X</a> = 4000K	<b>HZW</b> = Haze Reflector / White Flange	
	<b>MPW</b> = Matte Powder White Reflector / Matte Powder White Flange	
	<b>WW</b> = White Reflector / White Flange	
<a href="#">NLCBC-66930X</a> = 3000K	<b>HZW</b> = Haze Reflector / White	<b>LE4</b> = 120V 0-10V/Triac/ELV 277V 0-10V (requires Nora 4W housing)
<a href="#">NLCBC-66935X</a> = 3500K	<b>WW</b> = White Reflector / White	<b>LE4EM</b> = LE4 w/ Remote Emergency (requires Nora 6WEM housing)

## Optional Accessories

Description	Ring Finish
<a href="#">NLCBC-669TIR15</a> = 15° TIR optic	<b>B</b> = Black
	<b>BZ</b> = Bronze
	<b>HZ</b> = Haze
	<b>MPW</b> = Matte Powder White
	<b>WW</b> = White / White

[NRA-21ISM](#) = Medium base screw-in socket (included)  
[NRA-212SM](#) = Socket adapter for use with GU24 housings

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

# PHOTOMETRICS

## 6" Cobalt LED Adjustable Retrofit

Type

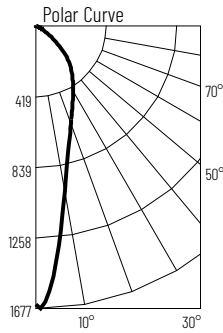
Project

Catalog No.

Notes

### Test Information

Test Number: NTR11169  
 Part Number: NLCBC-6694OSWW  
 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

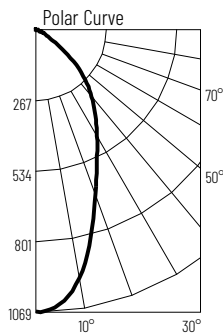
Zone	Lumens	% Luminaire
0-30	568	47.5
0-40	808	67.7
0-60	1114	93.3
0-90	1183	99
90-180	11	1
0-180	1194	100

### 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-6694OMWW  
 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

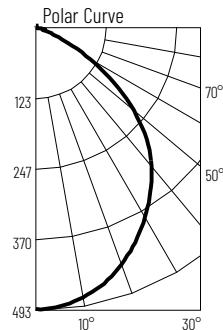
Zone	Lumens	% Luminaire
0-30	579	47.8
0-40	829	68.3
0-60	1136	93.7
0-90	1201	99
90-180	12	1
0-180	1213	100

### 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-6694OFWW  
 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)