

# NLCBC-469

## 4" Cobalt LED Adjustable Retrofit

Source: 12W LED

Up to 1000lm

### 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 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

[NHIC-4LMRAT/277\\*](#)

ICAT Dedicated LED, 277V

(includes step-down transformer)

[NHICCP-4LMRAT\\*](#)

Chicago Plenum Dedicated LED

[NSIC-4010AT](#)

ICAT Line Voltage

[NS-4010AT](#)

AT Line Voltage

[NHIC-4G24AT](#)

ICAT GU24

#### Remodel

[NHRIC-4LMRAT\\*](#)

ICAT Dedicated LED

[NSRIC-4040AT](#)

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-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-469TIR:** Premium TIR 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 JA8-2022
- ENERGY STAR certified (not BB or BZBZ finish)
- RoHS Compliant
- 5-Year Limited Warranty



Type

Project

Catalog No.

Notes

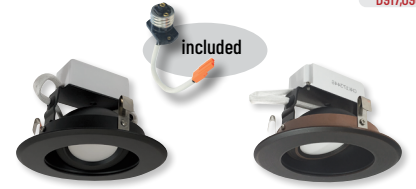
### Performance Data

Part Number	Lumens	CCT
<b>NLCBC-46927XWW</b>	881lm	2700K
<b>NLCBC-46930XWW</b>	970lm	3000K
<b>NLCBC-46935XWW</b>	972lm	3500K
<b>NLCBC-46940XWW</b>	1011lm	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



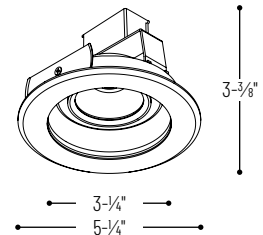
**HZW**  
Haze Reflector  
White Flange



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



**WW**  
White Reflector  
White Flange



## 4" Cobalt LED Adjustable Retrofit

Color Temperature	Reflector Finish / Flange Finish	Dimming & Emergency
<b>NLCBC-46927X</b> = 2700K	<b>BB</b> = Black Reflector / Black Flange	<b>(blank)</b> = 120V Triac/ELV
<b>NLCBC-46930X</b> = 3000K	<b>BZBZ</b> = Bronze Reflector/ Bronze Flange	<b>EM</b> = Remote Emergency (requires Nora EM housing)
<b>NLCBC-46935X</b> = 3500K	<b>HZN</b> = Haze Reflector/ Natural Metal Flange	
<b>NLCBC-46940X</b> = 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	
<b>NLCBC-46930X</b> = 3000K	<b>HZW</b> = Haze Reflector / White	<b>LE4</b> = 120V 0-10V/Triac/ELV 277V 0-10V (requires Nora 4W housing)
<b>NLCBC-46935X</b> = 3500K	<b>WW</b> = White Reflector / White	<b>LE4EM</b> = LE4 w/ Remote Emergency (requires Nora 6WEM housing)

## Optional Accessories

Description	Optic	Ring Finish
<b>NLCBC-469TIR</b> = TIR optic	<b>25</b> = 25° <b>45</b> = 45°	<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-46935XWW** = 4" Cobalt LED Adjustable Retrofit, 3500K, White Reflector / White Flange, 120V input; Triac / ELV dimming

# PHOTOMETRICS

## 4" Cobalt LED Adjustable Retrofit

Type

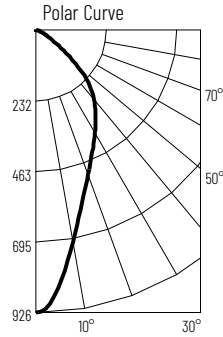
Project

Catalog No.

Notes

### Test Information

Test Number: NTR11157  
 Part Number: NLCBC-4694OSWW  
 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

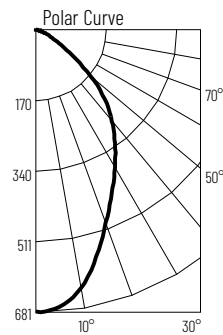
Zone	Lumens	% Luminaire
0-30	446	44.1
0-40	661	65.4
0-60	842	93.2
0-90	1004	99.4
90-180	6	0.6
0-180	1011	100

### 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-4694OMWW  
 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

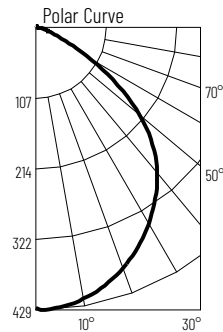
Zone	Lumens	% Luminaire
0-30	424	42.9
0-40	634	64.2
0-60	916	92.7
0-90	981	99.2
90-180	7	0.8
0-180	988	100

### 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-4694OFWW  
 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)