

# 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

### 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:** Flood optic is pre-installed; Spot and Narrow Flood optics are included.

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

### ELECTRICAL

**Input Voltage:** 120V or 120-277V, must specify

**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:** 22° Spot, 49° Narrow Flood, 106° 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\\*](#)

[NFBIC-6LMRATA/4W](#)

[NFBIC-6INCATA](#)

#### New Construction

[NHIC-27LMRAT\\*](#)

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

[NHIC-6LMRAT/4W\\*](#)

[NHIC-6LMRAT/EM\\*](#)

[NHIC-6LMRAT/6WEM\\*](#)

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

(includes step-down transformer)

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

[NHIC-27OAT](#)

[NHIC-17OAT](#)

[NH-26Q](#)

[NHIC-6G24ATFL](#)

#### Remodel

[NHRIC-27LMRAT\\*](#)

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

[NHRIC-27OAT](#)

[NHRIC-17OAT](#)

[NHR-26Q](#)

\* 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.

[NLCBC-60R](#): Oversize ring up to 8", must specify finish.

### LABELS AND LISTINGS

- cULus classified for Damp Locations when used with compatible housing
- 5-Year Limited Warranty
- Suitable for Type IC and Non-IC
- Certified to the high efficacy requirements of California Title 24 JA8-2025
- RoHS Compliant
- FCC compliant
- Patented ([noralighting.com/patents](http://noralighting.com/patents))



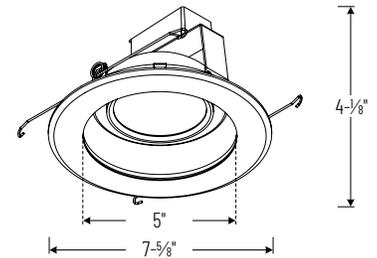
Type

Project

Catalog No.

Notes

### PRODUCT IMAGES & DIMENSIONS



### 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 <b>EM</b> = Remote Emergency (requires Nora EM housing)
<a href="#">NLCBC-66930X</a> = 3000K	<b>BZBZ</b> = Bronze Reflector / Bronze Flange	
<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> = Bright White Reflector / Bright White Flange	
	<b>WW</b> = Warm White Reflector / Warm White Flange	
<a href="#">NLCBC-66930X</a> = 3000K	<b>HZW</b> = Haze Reflector / Warm White Flange	<b>LE4</b> = 120V 0-10V/Triac/ELV
<a href="#">NLCBC-66935X</a> = 3500K	<b>WW</b> = Warm White Reflector / Warm White Flange	277V 0-10V (requires Nora 4W housing)
		<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> = Bright White <b>WW</b> = Warm White
<a href="#">NLCBC-60R</a> = Oversize Ring	<b>B</b> = Black <b>BZ</b> = Bronze <b>MPW</b> = Bright White <b>WW</b> = Warm White
<a href="#">NRA-21ISM</a> = Medium base screw-in socket (included)	
<a href="#">NRA-212SM</a> = Socket adapter for use with GU24 housings	

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

# PHOTOMETRICS

## 6" Cobalt LED Adjustable Retrofit

Type

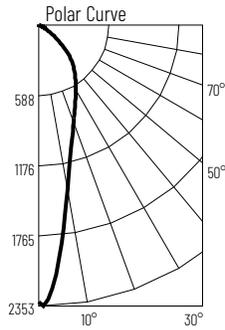
Project

Catalog No.

Notes

### Test Information

Test Number: NTR4406R1  
 Part Number: NLCBC-66940XMPW  
 Beam Spread: 22° Spot  
 Lumens: 1254lm  
 Wattage: 13.52W  
 Efficacy: 93lpw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.38  
 Spacing Criteria (90°-270°): 0.38



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	147fc	1'-7"
6'	65.4fc	2'-5"
8'	36.8fc	3'-1"
10'	23.5fc	3'-11"
12'	16.3fc	4'-8"

### Zonal Lumen Summary

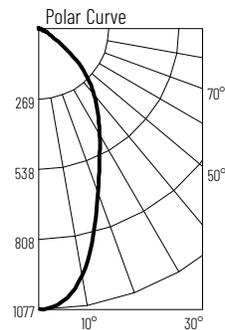
Zone	Lumens	% Luminaire
0-30	657	52.4
0-40	908	72.4
0-60	1195	95.3
0-90	1254	100
90-180	0	0
0-180	1254	100

### Candela Table

Vertical Angles	Candela
0	2353
5	1929
15	837
25	524
35	401
45	266

### Test Information

Test Number: NTR4405R1  
 Part Number: NLCBC-66940XMPW  
 Beam Spread: 49° Narrow Flood  
 Lumens: 1128lm  
 Wattage: 13.52W  
 Efficacy: 83lpw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 0.72  
 Spacing Criteria (90°-270°): 0.72



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	67.3fc	3'-7"
6'	29.9fc	5'-5"
8'	16.8fc	7'-2"
10'	10.8fc	9'
12'	7.5fc	10'-10"

### Zonal Lumen Summary

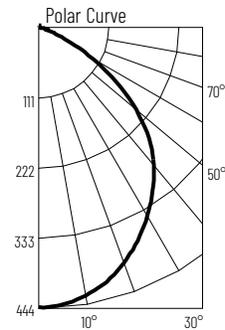
Zone	Lumens	% Luminaire
0-30	567	50.2
0-40	808	71.7
0-60	1078	95.6
0-90	1128	100
90-180	0	0
0-180	1128	100

### Candela Table

Vertical Angles	Candela
0	1077
5	1063
15	801
25	523
35	387
45	246

### Test Information

Test Number: NTR4404R1  
 Part Number: NLCBC-66940XMPW  
 Beam Spread: 106° Flood  
 Lumens: 1096lm  
 Wattage: 13.52W  
 Efficacy: 81lpw  
 CCT / CRI: 4000K / 90 CRI  
 Spacing Criteria (0°-180°): 1.26  
 Spacing Criteria (90°-270°): 1.26



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	27.8fc	10'-7"
6'	12.3fc	15'-11"
8'	6.9fc	21'-4"
10'	4.4fc	26'-7"
12'	3.1fc	31'-11"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	344	31.4
0-40	562	51.3
0-60	966	88.1
0-90	1096	100
90-180	0	0
0-180	1096	100

### Candela Table

Vertical Angles	Candela
0	444
5	442
15	425
25	394
35	349
45	291

### Lumen Output Multipliers

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