

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

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 or 120-277V, must specify

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

* 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 optics are available in 25° or 45°, must specify ring finish.

NLCBC-4OR: Oversize ring up to 5-3/4", must specify finish.

LABELS AND LISTINGS

- cULus classified for Damp Locations when used with compatible housing
- Suitable for Type IC and Non-IC
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- RoHS Compliant
- 5-Year Limited Warranty
- FCC compliant



Type

Project

Catalog No.

Notes

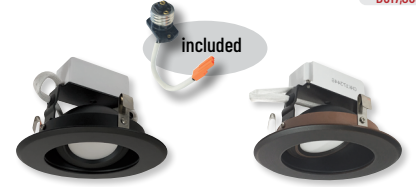
Performance Data

| 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

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



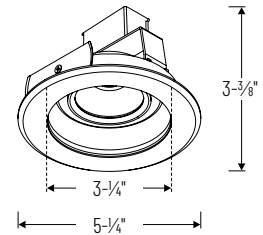
MPW

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 |
|-----------------------------|--|--|
| NLCBC-46927X = 2700K | BB = Black Reflector / Black Flange | (blank) = 120V Triac/ELV |
| NLCBC-46930X = 3000K | BZBZ = Bronze Reflector/ Bronze Flange | EM = Remote Emergency (requires Nora EM housing) |
| NLCBC-46935X = 3500K | HZN = Haze Reflector/ Natural Metal Flange | |
| NLCBC-46940X = 4000K | HZW = Haze Reflector / White Flange | |
| | MPW = Matte Powder White Reflector / Matte Powder White Flange | |
| | WW = White Reflector / White Flange | |
| NLCBC-46930X = 3000K | HZW = Haze Reflector / White | LE4 = 120V 0-10V/Triac/ELV 277V 0-10V (requires Nora 4W housing) |
| NLCBC-46935X = 3500K | WW = White Reflector / White | LE4EM = LE4 w/ Remote Emergency (requires Nora 6WEM housing) |

Optional Accessories

| Description | Optic | Ring Finish |
|--|-----------------|---------------------------------|
| NLCBC-469TIR = TIR optic | 25 = 25° | B = Black |
| | 45 = 45° | BZ = Bronze |
| NLCBC-4OR = Oversize Ring | | HZ = Haze |
| | | MPW = Matte Powder White |
| | | WW = White / White |
| | | B = Black |
| NRA-21ISM = Medium base screw-in socket (included) | | BZ = Bronze |
| | | MPW = Matte Powder White |
| | | WW = White / White |
| 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

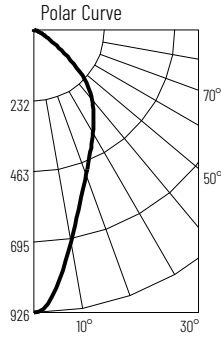
Project

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

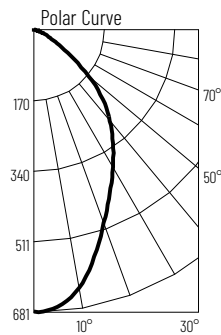
| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 446 | 44.1 |
| 0-40 | 661 | 65.4 |
| 0-60 | 842 | 93.2 |
| 0-90 | 1004 | 99.4 |
| 90-180 | 6 | 0.6 |
| 0-180 | 1011 | 100 |

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

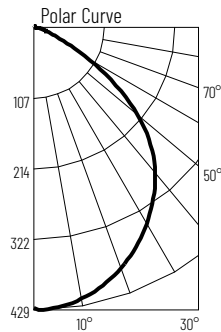
| Zone | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30 | 424 | 42.9 |
| 0-40 | 634 | 64.2 |
| 0-60 | 916 | 92.7 |
| 0-90 | 981 | 99.2 |
| 90-180 | 7 | 0.8 |
| 0-180 | 988 | 100 |

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)