

NLCBC-469 Series

4" Cobalt Retrofit Adjustable Reflectors

Source: 12W LED
900lm

PRODUCT DESCRIPTION

Cobalt retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. The adjustable design rotates and adjusts while never exposing an opening or breaking the ceiling plane. The luminaires produce over 900 lumens, drawing 12W at 90+ CRI. The Cobalt series integrates a Cree® COB family of LED arrays, 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)
- Over 800 lumen output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- Cree® 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: 900lm / 12W

(Delivered lumens will vary depending on CCT, beam spread and finish)

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

CRI: 90+CRI

Beam Spread: 48° Spot, 69° Narrow Flood, 99° Flood

Operating Temp.: 0°C to 25°C ambient temperature

Life Expectancy: 54,000 Hours @ L70

Dimming: Available in Triac/ELV/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-401QAT

ICAT Line Voltage

NS-401QAT

AT Line Voltage

NHIC-4G24AT

ICAT GU24

Remodel

NHRIC-4LMRAT*

ICAT Dedicated LED

NSRIC-404QAT

ICAT Line Voltage

NSR-404QAT

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

LABELS AND LISTINGS

- cULus classified for Damp Location when used with compatible frame-in
- Suitable for Type IC and Non-IC
- Can be used to comply with 2016 Title 24 - part 6 High Efficacy LED light source requirements
- ENERGY STAR certified (not BB or BZBZ finish)
- RoHS Compliant
- [5-Year Limited Warranty](#)



Type

Project

Catalog No.

Notes

PRODUCT IMAGES & DIMENSIONS



BB

Black Reflector
Black Flange



BZBZ

Bronze Reflector
Bronze Flange



HZN

Haze Reflector
Natural Metal Flange



HZW

Haze Reflector
White Flange



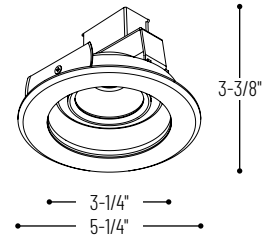
MPW

Matte Powder White Reflector
Matte Powder White Flange



WW

White Reflector
White Flange



4" Cobalt Retrofit Adjustable Reflector

Reflector Type	Color Temp.	Finish	Dimming & Emergency
NLCBC-469 = Round Adjustable	27X = 2700K	BB = Black / Black	(blank) = 120V Triac/ELV EM = Remote Emergency (requires Nora EM housing)
	30X = 3000K	BZBZ = Bronze / Bronze	
	35X = 3500K	HZN = Haze / Natural Metal	
	40X = 4000K	HZW = Haze / White	
		MPW = Matte Powder White	
NLCBC-469 = Round Adjustable		WW = White / White	LE4 = 120V 0-10V/Triac/ELV 277V 0-10V (requires Nora 4W housing) LE4EM = LE4 w/ Remote Emergency (requires Nora 6WEM housing)
	30X = 3000K	HZW = Haze / White	
	35X = 3500K	WW = White / White	

Optional Accessories

Description	Optic	Ring Finish
NLCBC-469TIR = TIR optic	25 = 25°	B = Black
	45 = 45°	BZ = Bronze
		HZ = Haze
		MPW = Matte Powder White
		WW = White / White

NRA-21ISM = Medium base screw-in socket (included)

NRA-212SM = Socket adapter for use with GU24 housings

Example: **NLCBC-46935XWW** = 4" Cobalt Adjustable Retrofit Reflector, 900lm / 12W, 3500K, White Finish

PHOTOMETRICS

4" Cobalt Retrofit Adjustable Reflector Series

Type

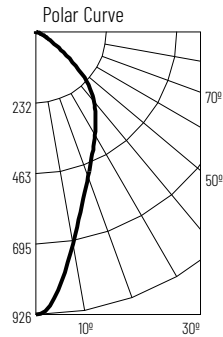
Project

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

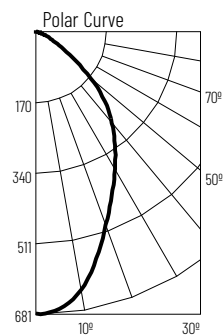
Zone	Lumens	% Luminaire
0-30	446	44.1
0-40	661	65.4
0-60	842	93.2
0-90	1004	99.4
90-180	6	0.6
0-180	1011	100

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

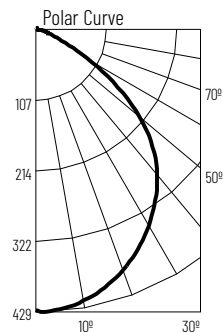
Zone	Lumens	% Luminaire
0-30	424	42.9
0-40	634	64.2
0-60	916	92.7
0-90	981	99.2
90-180	7	0.8
0-180	988	100

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