

NLCBC-469

4" Cobalt LED Adjustable Retrofit

Source: 12W LED
900lm

Type

Project

Catalog No.

Notes

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 900 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

Color Rendering Index: 90+ CRI

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

Operating Temperature: 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 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



PRODUCT IMAGES & DIMENSIONS

PATENT No.:
D917,090S



BB
Black Reflector
Black Flange



BZBZ
Bronze Reflector
Bronze Flange



HZN
Haze Reflector
Natural Metal Flange



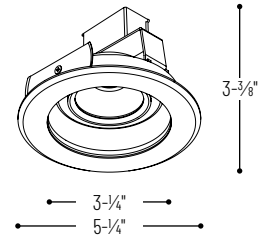
HZW
Haze Reflector
White Flange



MPW
Matte Powder White Reflector
Matte Powder White Flange



WW
White Reflector
White Flange



4" Cobalt LED Adjustable Retrofit

Color Temperature	Finish	Dimming & Emergency
NLCBC-46927X = 2700K	BB = Black / Black	(blank) = 120V Triac/ELV
NLCBC-46930X = 3000K	BZBZ = Bronze / Bronze	EM = Remote Emergency (requires Nora EM housing)
NLCBC-46935X = 3500K	HZN = Haze / Natural Metal	
NLCBC-46940X = 4000K	HZW = Haze / White	
	MPW = Matte Powder White	
	WW = White / White	
NLCBC-46930X = 3000K	HZW = Haze / White	LE4 = 120V 0-10V/Triac/ELV
NLCBC-46935X = 3500K	WW = White / White	277V 0-10V (requires Nora 4W housing)
		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
		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 LED Adjustable Retrofit, 900lm / 12W, 3500K, White Finish

PHOTOMETRICS

4" Cobalt LED Adjustable Retrofit

Type

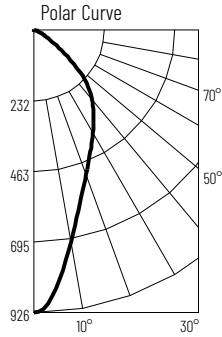
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Notes

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

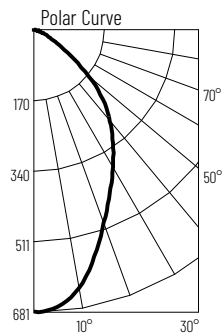
Zone	Lumens	% Luminaire
0-30	446	44.1
0-40	661	65.4
0-60	842	93.2
0-90	1004	99.4
90-180	6	0.6
0-180	1011	100

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

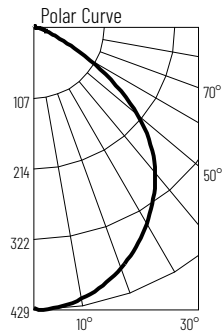
Zone	Lumens	% Luminaire
0-30	424	42.9
0-40	634	64.2
0-60	916	92.7
0-90	981	99.2
90-180	7	0.8
0-180	988	100

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