

NLCBC-470 / NLCBC-4870

4" Cobalt Retrofit Adjustable Elbow

Source: 12W or 13W LED
800lm or 1000lm

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 luminaires produce up to 1000 lumens at 90+ CRI. The Cobalt series integrates a Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption. The adjustable elbow allows for greater aiming flexibility with 358° rotate and 75° tilt adjustment.

FEATURES

- Retrofit existing 4" recessed housings
- Round or Square trim
- Field adjustable beam spreads (spot included and narrow flood pre-installed)
- 800 or 1000 lumen output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- Cree® COB LED Technology
- Integral dimmable driver

SPECIFICATION

Trim: Cast aluminum construction.

Adjustability: 358° rotate and 75° tilt

Reflector / Lens option: Spot (included) and Narrow Flood (installed)

ELECTRICAL

Input Voltage: 120V

Lumens / Wattage: 800lm / 12W or 1000lm / 13W

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

Color Rendering Index: 90+ CRI

Beam Spread: 27° Spot, 48° Narrow Flood

Operating Temperature: 0°C to 25°C

Dimming: Triac/ELV

[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

New Construction

[NHIC-4LMRAT*](#) ICAT Dedicated LED

[NHIC-4LMRAT/277*](#) ICAT Dedicated LED, 277V

[NHIC-4LMRAT/EM*](#) ICAT Dedicated LED for EM

[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

* Nora Dedicated LED housings are cULus listed for use only with Nora LED Retrofits.

LABELS AND LISTINGS

- cULus classified for Damp Locations when used with compatible frame-in
- [5-Year Limited Warranty](#)
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- FCC Compliant



PRODUCT IMAGES & DIMENSIONS



NLCBC-470B/A
Matte Black



NLCBC-4870B/A
Matte Black



NLCBC-470BZ/A
Bronze



NLCBC-4870BZ/A
Bronze



NLCBC-470MPW
Matte Powder White



NLCBC-4870MPW
Matte Powder White



NLCBC-470N/A
Natural Metal



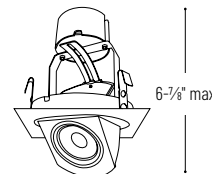
NLCBC-4870N/A
Natural Metal



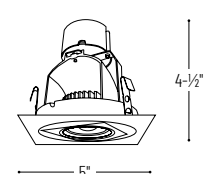
NLCBC-470W/A
White



NLCBC-4870W/A
White



6-7/8" max



4-1/2"

5"

4" Cobalt Retrofit Adjustable Elbow

Trim Shape	CCT	Finish	Optional Emergency
NLCBC-470 = Round Trim	27X = 2700K	B/A = Matte Black ¹	EM = Remote Emergency (requires Nora EM housing)
NLCBC-4870 = Square Trim	30X = 3000K	BZ/A = Bronze ¹	
	35X = 3500K	MPW/A = Matte Powder White	
	40X = 4000K	N/A = Natural Metal ¹	
		W/A = White	

Notes: ¹ Items numbers below include 1000lm / 13W LED
 NLCBC-47035XBZ = 3500K, Bronze Finish
 NLCBC-47035XN = 3500K, Natural Metal Finish
 NLCBC-47040XB = 4000K, Black Finish
 NLCBC-47040XN = 4000K, Natural Metal Finish

Example: **NLCBC-47030XB/A** = 4" Round Retrofit Adjustable Elbow, 800lm / 12W LED, 3000K, Matte Black Finish

PHOTOMETRICS

4" Cobalt Retrofit Adjustable Elbow

Type

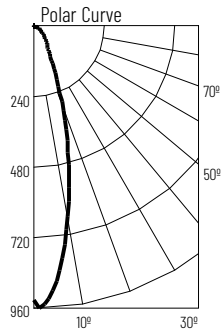
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Test Information

Test Number: NTR11439
 Part Number: NLCBC-47030WWA
 Beam Spread: Spot
 Lumens: 837lm
 Wattage: 11.26W
 Efficacy: 74lpw
 CCT / CRI: 3000K / 90 CRI
 Spacing Criteria (0°-180°): 0.48
 Spacing Criteria (90°-270°): 0.46



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	123fc	2'
6'	54.8fc	3'
8'	30.8fc	4'
10'	19.7fc	5'
12'	13.7fc	6'

Zonal Lumen Summary

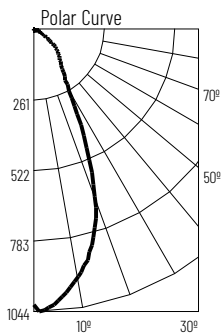
Zone	Lumens	% Luminaire
0-30	549	65.5
0-40	649	77.5
0-60	784	93.6
0-90	833	99.5
90-180	4	0.5
0-180	837	100

Candela Table

Vertical Angles	Candela
0	1973
5	1818
15	909
25	323
35	171
45	102

Test Information

Test Number: NTR11143R1
 Part Number: NLCBC-47030WWA
 Beam Spread: Narrow Flood
 Lumens: 837lm
 Wattage: 11.17W
 Efficacy: 75lpw
 CCT / CRI: 3000K / 90 CRI
 Spacing Criteria (0°-180°): 0.76
 Spacing Criteria (90°-270°): 0.74



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	63.5fc	3'-5"
6'	28.2fc	5'-1"
8'	15.9fc	6'-10"
10'	10.2fc	8'-6"
12'	7.1fc	10'-4"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	508	60.7
0-40	625	74.6
0-60	784	93.7
0-90	833	99.5
90-180	4	0.5
0-180	837	100

Candela Table

Vertical Angles	Candela
0	1017
5	996
15	817
25	428
35	181
45	125