

NLCBC-470 / NLCBC-4870

4" Cobalt Retrofit Adjustable Elbow

Source: 12W LED
800lm

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 800 lumens at 90+ CRI. The Cobalt series intergrates 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 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 (Delivered lumens will vary depending on CCT and beam spread)

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

CRI: 90+CRI

Beam Spread: 27° Spot, 48° Narrow Flood

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

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

NHRIC-4G24AT ICAT GU24

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

LABELS AND LISTINGS

- cULus classified for Damp Location when used with compatible frame-in
- [5-Year Limited Warranty](#)
- Certified to the high efficacy requirements of California Title 24 JA8-2019



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



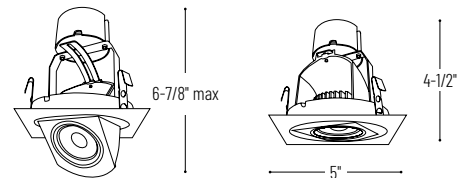
NLCBC-4870N/A
Natural Metal



NLCBC-470W/A
White



NLCBC-4870W/A
White



4" Cobalt Retrofit Adjustable Elbow

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

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

PHOTOMETRICS

4" Cobalt Retrofit Adjustable Elbow

Type

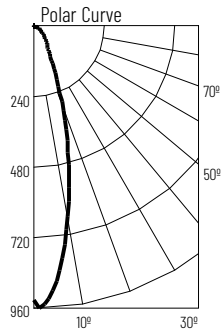
Project

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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

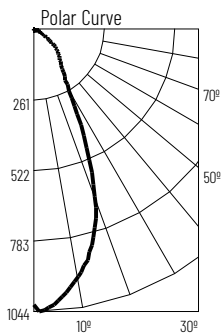
Zone	Lumens	% Luminaire
0-30	549	65.5
0-40	649	77.5
0-60	784	93.6
0-90	833	99.5
90-180	4	0.5
0-180	837	100

Candela Table

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

Test Information

Test Number: NTR1143R1
 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