

NLCBC2-65 Series

6" Cobalt Click Retrofit Reflectors

Source: 12W LED
750lm

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 6" retrofit click luminaires provide 750 Lumen output at 90+ CRI. The Cobalt series integrates a Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption.

FEATURES

- 750lm / 12W LED output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- CREE® COB LED or Comfort Dim technology
- Integral dimmable driver
- Includes medium base socket adapter for easy retrofitting in 6" recessed housings
- 5-year limited warranty
- ENERGY STAR certified
- cULus classified for wet locations

SPECIFICATION

Trim: UTM thermal management features an integral driver, large heat sink and the latest Cree COB technology. The patented "Click" system allows the aluminum spun trims to be easily changed in the field with the help of spring mounting clips which properly secure them to the LED module.

Mounting: Two steel, spring mounting springs allow for easy and secure mounting in most 6" housings.

Retrofit: Cobalt retrofit series includes medium base screw-socket adapter (NRA-211SM) for retrofitting into existing medium base downlight housings. GU24 socket adapter is available for use with GU24 housings, must specify NRA-212SM.

ELECTRICAL

Input Voltage: 120V or 120V-277V, must specify

Lumens / Wattage: 750lm / 12W

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

CRI: 90+CRI

Operating Temp.: 0°C to 45°C ambient temperature

Comfort Dim: Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 1700K on a gradual, even curve.

Dimming: Available in Triac/ELV0-10V, 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 6" IC and Non-IC housings by Nora and others.

Fire Box

- NFBIC-6LMRATA*** ICAT Dedicated LED
- NFBIC-6LMRATA/4W*** ICAT Dedicated LED for LE4
- NFBIC-6INCATA** ICAT Line Voltage

New Construction

- NHIC-27LMRAT*** Shallow ICAT Dedicated LED
- NHIC-6LMRAT*** ICAT Dedicated LED
- NHIC-6LMRAT/4W*** ICAT Dedicated LED for LE4
- NHIC-6LMRAT/EM*** ICAT Dedicated LED for EM
- NHIC-6LMRAT/6WEM*** ICAT Dedicated LED for EM+LE4
- NHIC-6LMRAT/277*** ICAT Dedicated LED, 277V (includes step-down transformer)

- NHICCP-6LMRAT*** Chicago Plenum Dedicated LED
- NHIC-27QAT** Shallow ICAT Line Voltage
- NHIC-17QAT** ICAT Line Voltage
- NH-26Q** Non-IC Line Voltage
- NHIC-6G24ATFL** ICAT GU24

Remodel

- NHRIC-27LMRAT*** Shallow ICAT Dedicated LED
- NHRIC-6LMRAT*** ICAT Dedicated LED
- NHRIC-27QAT** Shallow ICAT Line Voltage
- NHRIC-17QAT** ICAT Line Voltage
- NHR-26Q** Non-IC Line Voltage
- NHRIC-6G24ATFL** ICAT GU24

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

ACCESSORIES

NLCBC-6EYELID: Round eyelid used to convert round reflector or baffle to half moon wall wash trim.

NLCBC-6OR: Round oversize ring used to cover ceiling cut-outs up to 8-1/4".

NLCBC-6DD: Frosted round decorative dome ships with white reflector.

NLCBC-6DR: Frosted round decorative ring ships with white reflector.

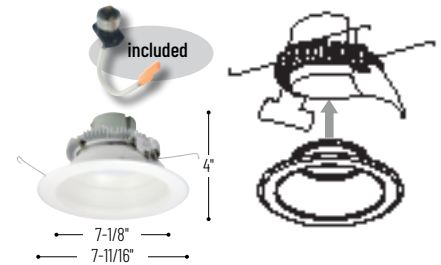
LABELS AND LISTINGS

- cULus classified for Wet Locations
- ENERGY STAR certified (WW finish only)
- 5-Year Limited Warranty
- Can be used to comply with 2016 Title 24 - part 6 High Efficacy LED light source requirements



PRODUCT IMAGES & DIMENSIONS

PATENT No. D793977



NLCBC2-651
Round Reflector
BB, BW, BZBZ, COCO, DW, HZMPW, HZW, MPW, NN, WW



NLCBC2-652
Round Baffle
BB, BW, BZBZ, MPW, NN, WW



NLCBC2-653
Square Reflector with Round Aperture
BZBZ, DW, HZW, MPW, WW



NLCBC2-656
Square Reflector with Square Aperture
BB, BW, BZBZ, HZW, MPW, NN, PW, WW

6" Cobalt Click Retrofit Reflectors

Reflector Type	Color Temp.	Finish (see chart below)	Dimming & Emergency
NLCBC2-651 = Round Reflector	27 = 2700K	BB = Black / Black	(blank) = 120V Triac/ELV
NLCBC2-652 = Round Baffle	30 = 3000K	BW = Black / White	EM = Remote Emergency (requires Nora EM housing)
NLCBC2-653 = Square Round	35 = 3500K	BZBZ = Bronze / Bronze	LE2 = 277V Non-Dimming (available in 2700K & 3000K)
NLCBC2-656 = Square Regress	40 = 4000K	COCO = Copper / Copper	LE4 = 120V 0-10V/Triac/ELV 277V 0-10V (req. Nora 4W housing)
	CD = Comfort Dim ¹	DW = Diffused / White	LE4EM = LE4 w/ Remote Emergency (requires Nora 6WEM housing)
	¹ Comfort Dim technology is available in 120V only	HZMPW = Haze / Matte Powder White	
		HZW = Haze / White	
		MPW = Matte Powder White	
		NN = Natural Metal / Nat. Metal	
		PW = Pewter / White	
		WW = White / White	

Available Finishes

	BB	BW	BZBZ	COCO	DW	HZMPW	HZW	MPW	NN	PW	WW
651	•	•	•	•	•	•	•	•	•	•	•
652	•	•	•	•	•	•	•	•	•	•	•
653	•	•	•	•	•	•	•	•	•	•	•
656	•	•	•	•	•	•	•	•	•	•	•

Optional Accessories

Description
NLCBC-6EYELIDB = 6" Round Eyelid, Black
NLCBC-6EYELIDBZ = 6" Round Eyelid, Bronze
NLCBC-6EYELIDMPW = 6" Round Eyelid, Matte Powder White
NLCBC-6EYELIDW = 6" Round Eyelid, White
NLCBC-6OR-B = 6" Round Oversize Ring, Black
NLCBC-6OR-BZ = 6" Round Oversize Ring, Bronze
NLCBC-6OR-MPW = 6" Round Oversize Ring, Matte Powder White
NLCBC-6OR-W = 6" Round Oversize Ring, White
NLCBC2-6DDFW = 6" Round Deco Dome, Frosted White
NLCBC2-6DRFA = 6" Round Deco Ring, Frosted Amber
NLCBC2-6DRFB = 6" Round Deco Ring, Frosted Blue
NLCBC2-6DRFR = 6" Round Deco Ring, Frosted Red
NLCBC2-6DRFW = 6" Round Deco Ring, Frosted White
NRA-211SM = Medium base screw-in socket (included)
NRA-212SM = Socket adapter for use with GU24 housings

Example: **NLCBC2-65130MPW** = 6" Cobalt Click Retrofit Reflector, 750lm / 12W LED, 3000K, Matte Powder White Finish

NLCBC2-65 Series

6" Cobalt Click Retrofit Reflector Accessories

Type	_____
Project	_____
Catalog No.	_____
Notes	_____



Colbalt Eyelid

NLCBC-6EYELID-B Black
NLCBC-6EYELID-BZ Bronze
NLCBC-6EYELID-MPW Matte Powder White
NLCBC-6EYELID-W White
Round eyelid clips on reflector to convert into half moon wall wash



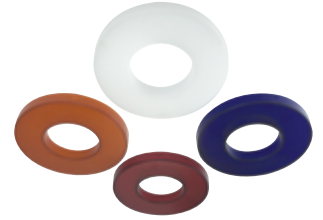
Colbalt Oversize Ring

NLCBC-6OR-B Black
NLCBC-6OR-BZ Bronze
NLCBC-6OR-MPW Matte Powder White
NLCBC-6OR-W White
Round oversize ring covers large ceiling cut-outs



Colbalt Click Deco Dome

NLCBC2-6DDFW Frosted White
Decorative dome ships with white reflector



Colbalt Click Deco Ring

NLCBC2-6DRFA Frosted Amber
NLCBC2-6DRFB Frosted Blue
NLCBC2-6DRFR Frosted Red
NLCBC2-6DRFW Frosted White
Decorative ring ships with white reflector

PHOTOMETRICS

6" Cobalt Click Retrofit Series

Type

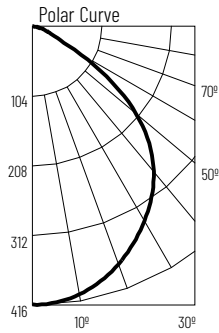
Project

Catalog No.

Notes

Test Information

Test Number: 795866
 Part Number: NLCBC2-65130WWLE4
 Lumens: 896lm
 Wattage: 12.4W
 Efficacy: 72lpw
 CCT / CRI: 3000K / 90 CRI
 Spacing Criteria (0°-180): 1.22
 Spacing Criteria (90°-270): 1.22



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	25.9fc	9'-4"
6'	11.5fc	14'
8'	6.5fc	18'-8"
10'	4.1fc	23'-5"
12'	2.9fc	28'

Zonal Lumen Summary

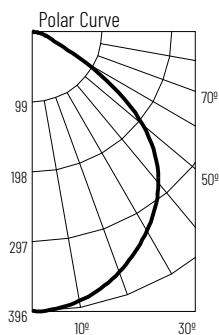
Zone	Lumens	% Luminaire
0-30	314	35
0-40	507	56.6
0-60	826	92.2
0-90	894	99.8
90-180	2	0.2
0-180	896	100

Candela Table

Vertical Angles	Candela
0	414
5	411
15	391
25	355
35	309
45	247

Test Information

Test Number: 795866
 Part Number: NLCBC2-65230WWLE4
 Lumens: 886lm
 Wattage: 12.4W
 Efficacy: 71lpw
 CCT / CRI: 3000K / 90 CRI
 Spacing Criteria (0°-180): 1.24
 Spacing Criteria (90°-270): 1.24



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	24.7fc	9'-8"
6'	11fc	14'-7"
8'	6.2fc	19'-6"
10'	4fc	24'-5"
12'	2.7fc	29'-2"

Zonal Lumen Summary

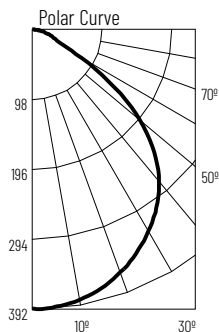
Zone	Lumens	% Luminaire
0-30	304	34
0-40	491	55.4
0-60	812	91.6
0-90	884	99.8
90-180	2	0.2
0-180	886	100

Candela Table

Vertical Angles	Candela
0	395
5	391
15	374
25	343
35	303
45	246

Test Information

Test Number: 795866
 Part Number: NLCBC2-65330WWLE4
 Lumens: 883lm
 Wattage: 12.4W
 Efficacy: 71lpw
 CCT / CRI: 3000K / 90 CRI
 Spacing Criteria (0°-180): 1.24
 Spacing Criteria (90°-270): 1.26



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	24.5fc	9'-7"
6'	10.9fc	14'-5"
8'	6.1fc	19'-2"
10'	3.9fc	24'
12'	2.7fc	28'-10"

Zonal Lumen Summary

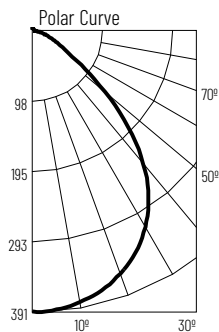
Zone	Lumens	% Luminaire
0-30	302	34.2
0-40	492	55.7
0-60	803	91
0-90	881	99.8
90-180	2	0.2
0-180	883	100

Candela Table

Vertical Angles	Candela
0	392
5	389
15	374
25	345
35	303
45	242

Test Information

Test Number: 795866
 Part Number: NLCBC2-65630WWLE4
 Lumens: 802lm
 Wattage: 12.6W
 Efficacy: 64lpw
 CCT / CRI: 3000K / 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'	24.3fc	7'-11"
6'	10.8fc	11'-10"
8'	6.1fc	15'-10"
10'	3.9fc	19'-8"
12'	2.7fc	23'-7"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	297	37.1
0-40	475	59.3
0-60	721	89.9
0-90	783	97.7
90-180	18	2.3
0-180	802	100

Candela Table

Vertical Angles	Candela
0	389
5	386
15	371
25	338
35	281
45	189