

NLCBC-65 Series

6" Cobalt Retrofit Reflectors

Source: 13W/16W LED
1000lm

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 luminaires produces 1000 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. An obvious and smart choice for Green Energy efficient lighting in commercial and residential applications.

FEATURES

- 1000lm LED output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- CREE® COB LED 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

Reflector: Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output. The deep reflector places the LED optics deeper, increasing the visual comfort and reduces board images when off.

Mounting: Two steel, spring mounting blades 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: 1000lm

Wattage: 13W (120V) or 16W (LE4)

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

CRI: 90+CRI

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

Dimming: Available in Triac/ELV0-10V, must specify 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-6LMRAT*	ICAT Dedicated LED
NFBIC-6LMRAT/4W*	ICAT Dedicated LED for LE4
NFBIC-6INCAT	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".

LABELS AND LISTINGS

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



Type

Project

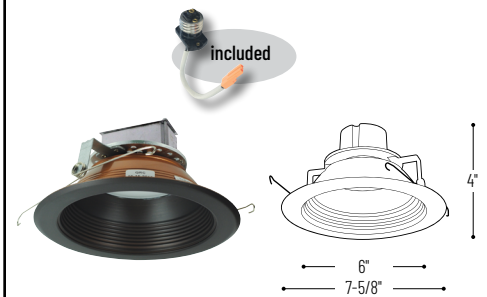
Catalog No.

Notes

PRODUCT IMAGES & DIMENSIONS



NLCBC-651
Round Reflector
BZ, DD, DW, HZW, MPW, WW



NLCBC-652
Round Baffle
BZ, MPW, WW

6" Cobalt Retrofit Reflectors

Reflector Type	Color Temp.	Finish	Dimming & Emergency
NLCBC-651 = Round Reflector	27 = 2700K	BZ = Bronze / Bronze	(blank) = 120V Triac/ELV
NLCBC-652 = Round Baffle	30 = 3000K 40 = 4000K	DW = Diffused / White (651 only) HZW = Haze / White (651 only) MPW = Matte Powder White WW = White / White	EM = Remote Emergency (requires Nora EM housing)
NLCBC-651 = Round Reflector	35 = 3500K	WW = White / White	(blank) = 120V Triac/ELV
NLCBC-652 = Round Baffle			EM = Remote Emergency (requires Nora EM housing)
NLCBC-651 = Round Reflector	30 = 3000K 35 = 3500K	DD = Diffused / Diffused DW = Diffused / White WW = White / White	LE4 = 120V Triac/ELV or 0-10V 277V 0-10V LE4EM = LE4 w/ Remote Emergency (requires Nora EM housing)

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
NRA-211SM = Medium base screw-in socket (included)
NRA-212SM = Socket adapter for use with GU24 housings

Example: NLCBC-65130MPW = 6" Cobalt Retrofit Reflector, 1000lm / 13W LED, 3000K, Matte Powder White Finish

PHOTOMETRICS

6" Cobalt Retrofit Series

Type _____

Project _____

Catalog No. _____

Notes _____

Test Information

Test Number: 795874

Part Number: NLCBC-65140WW

Lumens: 1202lm

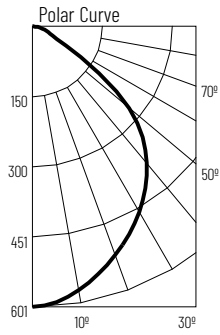
Wattage: 15.7W

Efficacy: 77lpw

CCT / CRI: 4000K / 90 CRI

Spacing Criteria (0°-180): 1.16

Spacing Criteria (90°-270): 1.16



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	37.5fc	8'-11"
6'	16.7fc	13'-4"
8'	9.4fc	17'-8"
10'	6fc	22'-2"
12'	4.2fc	26'-7"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	437	36.4
0-40	701	58.3
0-60	1113	92.7
0-90	1202	100
90-180	0	0
0-180	1202	100

Candela Table

Vertical Angles	Candela
0	601
5	593
15	549
25	491
35	423
45	335