# **NLCBC-45** Series

4" 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 4″ retrofit luminaires produces 1000 lumen output at 90+ CRI. The Cobalt series integrates a Cree<sup>®</sup> 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 .
- Integral dimmable driver . Includes medium base socket adapter for easy
- retrofitting in 4" 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 4" 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/ELV/0-10V, must specify **Click Here** or check complete dimmer list at www. NoraLighting.com in the "Compatibility" page under "Resources" tab

## **4" Cobalt Retrofit Reflectors**

# COMPATIBLE HOUSINGS

Cobalt retrofit reflectors are compatible with most 4" IC and Non-IC housings by Nora and others. Fire Box NFBIC-4LMRAT\* ICAT Dedicated LED

NFBIC-4LMRAT/4W\* NFBIC-4INCAT

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+I
NHIC-4LMRAT/277*	ICAT Dedicated LED, 277V
(includes step-down tran	nsformer)
NHICCP-4LMRAT*	Chicago Plenum Dedicated L
NSIC-401QAT	ICAT Line Voltage
NS-401QAT	AT Line Voltage
NHIC-4G24AT	ICAT GU24

CAT Dedicated LED for EM CAT Dedicated LED for EM+LE4 CAT Dedicated LED, 277V former) Chicago Plenum Dedicated LED CAT Line Voltage AT Line Voltage ICAT GU24

ICAT Dedicated LED for LE4

ICAT Line Voltage

Remodel NHRIC-4LMRAT\* ICAT Dedicated LED NSRIC-4040AT ICAT Line Voltage NSR-4040AT AT Line Voltage NHRIC-4G24AT ICAT GU24

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

### ACCESSORIES

NLCBC-4EYELID: Round eyelid used to convert round reflector or baffle to half moon wall wash trim. NLCBC-40R: Round oversize ring used to cover ceiling cut-outs up to 6".

### 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





Project

Catalog No.

Notes



Reflector Type	Color Temp.	Finish	Dimming & Emergency	Description	
NLCBC-453 = Square Round	<b>27</b> = 2700K	<b>WW</b> = White / White	(blank) = 120V Triac/ELV	NLCBC-4EYELIDB = 4" Round Eyelid, Black	
NLCBC-455 = Square Pinhole	<b>30</b> = 3000K	<b>MPW</b> = Matte Powder White	EM = Remote Emergency	NLCBC-4EYELIDBZ = 4" Round Eyelid, Bronze	
NLCBC-456 = Square Regress	<b>40</b> = 4000K (MPW only)		(requires Nora EM housing)	NLCBC-4EYELIDMPW = 4" Round Eyelid, Matte Powder White	
NLCBC-451D = Round Reflector NLCBC-452D = Round Baffle	<b>27</b> = 2700K <b>30</b> = 3000K	BZ = Bronze / Bronze DW = Diffused / White (451D only)	(blank) = 120V Triac/ELV EM = Remote Emergency	NLCBC-4EYELIDW = 4" Round Eyelid, White	
	<b>40</b> = 4000K	HZW = Haze / White (451D only)	(requires Nora EM housing)	NLCBC-40R-B = 4" Round Oversize Ring, Black	
		<b>MPW</b> = Matte Powder White		NLCBC-40R-BZ = 4" Round Oversize Ring, Bronze	
		WW = White / White		NLCBC-40R-MPW = 4" Round Oversize Ring, Matte Powder White	
NLCBC-451D = Round Reflector	<b>30</b> = 3000K <b>35</b> = 3500K	<b>DD</b> = Diffused / Diffused <b>DW</b> = Diffused / White	LE4 = 120V Triac/ELV or 0-10V 277V 0-10V	<b>NLCBC-40R-W</b> = $4^*$ Round Oversize Ring, White	
		<b>WW</b> = White / White	<b>LE4EM</b> = LE4 w/ Remote Emergency	NRA-211SM = Medium base screw-in socket (included)	
			(requires Nora EM housing)	NRA-212SM = Socket adapter for use with GU24 housings	

Example: NLCBC-451D30MPW = 4" Cobalt Retrofit Round Reflector, 1000Im / 13W LED, 3000K, Matte Powder White Finish



# PHOTOMETRICS

4" Cobalt Retrofit Series

# Туре

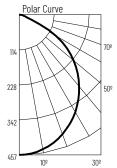
# Project

Catalog No.

# Notes

# Test Information

Test Number: 795866 Part Number: NLCBC-451D40WW Lumens: 1036lm Wattage: 15.3W Efficacy: 68lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (90°-270): 1.2



Illuminance at a Distance				
Ωº	Distance from Luminaire	FC at Nadir	Beam Diameter	
0	4	28.5fc	9'-8"	
O₽	6'	12.7fc	14'-7"	
0-	8'	7.1fc	19'-5"	
	10'	4.6fc	24'-4"	
	12'	3.2fc	29'-1"	

Zonal Lumen Summary			
Zone	Lumens	% Luminaire	
0-30	345	33.3	
0-40	556	53.6	
0-60	932	90	Γ
0-90	1036	100	Γ
90-180	0	0	Γ
0-180	1036	100	Γ

Candela Table		
Vertical Angles	Candela	
0	457	
5	454	
15	432	
25	392	
35	337	
45	270	

