

# NLCBC2-65 Series

## 6" Cobalt Click LED Retrofit Reflectors

Source: 10W or 12W LED  
750lm or 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 click luminaires product up to 1000 lumen output at 90+ CRI. The Cobalt series intergrates a Signify COB family of LED arrays, giving bright spectacular light output and low power consumption.

### FEATURES

- 750lm or 1000lm LED output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- Signify COB LED or Comfort Dim technology
- 120V or 120V-277V input voltage
- 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 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 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 / Wattage:** 750lm / 10W or 1000lm / 12W  
**Color Temperature:** 2700K, 3000K, 3500K or 4000K  
**Color Rendering Index:** 90+ CRI  
**Operating Temperature:** 0-35°C  
**Lifetime:** 50,000 hours @ L70  
**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/ELV/0-10V, must specify [Click Here](#) or check complete dimmer list at [www.NoraLighting.com](http://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\*
- NFBIC-6LMRATA/4W\*
- NFBIC-6INCATA

ICAT Dedicated LED  
ICAT Dedicated LED for LE4  
ICAT Line Voltage

#### New Construction

- NHIC-27LMRAT\*
- NHIC-6LMRAT\*
- NHIC-6LMRAT/4W\*
- NHIC-6LMRAT/EM\*
- NHIC-6LMRAT/6WEM\*
- NHIC-6LMRAT/277\*

Shallow ICAT Dedicated LED  
ICAT Dedicated LED  
ICAT Dedicated LED for LE4  
ICAT Dedicated LED for EM  
ICAT Dedicated LED for EM+LE4  
ICAT Dedicated LED, 277V (includes step-down transformer)

#### NHICCP-6LMRAT\*

Chicago Plenum Dedicated LED  
Shallow ICAT Line Voltage  
ICAT Line Voltage  
Non-IC Line Voltage  
ICAT GU24

#### NHIC-27OAT

#### NHIC-17OAT

#### NH-26Q

#### NHIC-6G24ATFL

#### Remodel

#### NHRIC-27LMRAT\*

#### NHRIC-6LMRAT\*

#### NHRIC-27OAT

#### NHRIC-17OAT

#### NHR-26Q

Shallow ICAT Dedicated LED  
ICAT Dedicated LED  
Shallow ICAT Line Voltage  
ICAT Line Voltage  
Non-IC Line Voltage

\* 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".

### LABELS AND LISTINGS

- cULus classified for Wet Locations
- ENERGY STAR certified (not black, bronze or copper)
- 5-Year Limited Warranty
- Meets ASTM-E283 Air-Tight requirements
- Patent #D797,977S; D871,644S; D824,568S
- Certified to the high efficacy requirements of California Title 24 JA8-2019



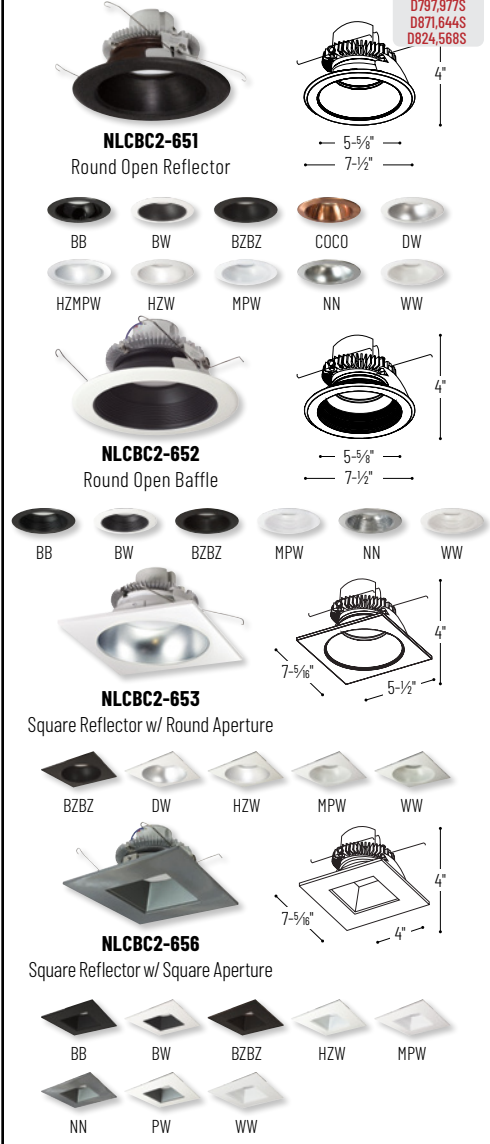
### Type

### Project

### Catalog No.

### Notes

### PRODUCT IMAGES & DIMENSIONS



## 6" Cobalt Click LED Retrofit Reflectors

Reflector Type	Color Temp.	Finish (see chart below)	Lumens / Wattage	Dimming & Emergency
NLCBC2-651 = Round Reflector	27 = 2700K	BB = Black / Black	/A = 750lm / 10W	(blank) = 120V Triac/ELV
NLCBC2-652 = Round Baffle	30 = 3000K	BW = Black / White	/10 = 1000lm / 12W	EM = Remote Emergency (requires Nora EM housing)
NLCBC2-653 = Square Round	35 = 3500K	BZBZ = Bronze / Bronze		LE4 = 120V 0-10V/Triac/ELV 277V 0-10V (req. Nora 4W housing)
NLCBC2-656 = Square Regress	40 = 4000K	COCO = Copper / Copper		LE4EM = LE4 w/ Remote Emergency (requires Nora 6WEM housing)
	CD = Comfort Dim <sup>1</sup>	DW = Diffused / White		
		HZMPW = Haze / Matte Powder White		
		HZW = Haze / White		
		MPW = Matte Powder White		
		NN = Natural Metal / Nat. Metal		
		PW = Pewter / White		
		WW = White / White		

<sup>1</sup> Comfort Dim technology available in 750lm & 120V only

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

Example: NLCBC2-65130MPW/A = 6" Cobalt Click LED Retrofit Reflector, 750lm / 10W LED, 3000K, Matte Powder White Finish

# PHOTOMETRICS

## 6" Cobalt Click Retrofit Series

Type

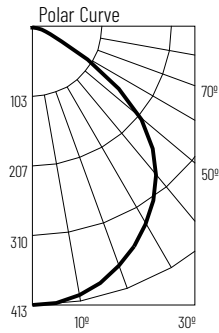
Project

Catalog No.

Notes

### Test Information

Test Number: NTR1298  
 Part Number: NLCBC2-65127WW/A  
 Beam Spread: 95° Wide Flood  
 Lumens: 844lm  
 Wattage: 9.56W  
 Efficacy: 88lpw  
 CCT / CRI: 2700K / 90 CRI  
 Spacing Criteria (0°-180): 1.14  
 Spacing Criteria (90°-270): 1.14



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	25.8fc	8'-10"
6'	11.5fc	13'-1"
8'	6.5fc	17'-6"
10'	4.1fc	21'-11"
12'	2.9fc	26'-4"

### Zonal Lumen Summary

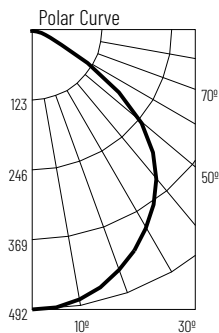
Zone	Lumens	% Luminaire
0-30	301	35.7
0-40	481	57
0-60	770	91.2
0-90	839	99.5
90-180	4	0.5
0-180	844	100

### Candela Table

Vertical Angles	Candela
0	413
5	409
15	381
25	336
35	287
45	227

### Test Information

Test Number: NTR1304  
 Part Number: NLCBC2-65127WW/10  
 Beam Spread: 95° Wide Flood  
 Lumens: 1006lm  
 Wattage: 11.58W  
 Efficacy: 87lpw  
 CCT / CRI: 2700K / 90 CRI  
 Spacing Criteria (0°-180): 1.14  
 Spacing Criteria (90°-270): 1.14



### Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	30.8fc	8'-8"
6'	13.7fc	13'-1"
8'	7.7fc	17'-6"
10'	4.9fc	21'-10"
12'	3.4fc	26'-2"

### Zonal Lumen Summary

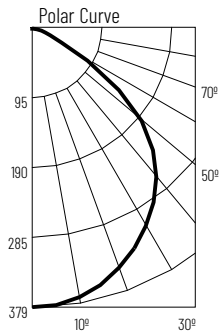
Zone	Lumens	% Luminaire
0-30	359	35.7
0-40	573	57
0-60	917	91.2
0-90	1001	99.5
90-180	5	0.5
0-180	1006	100

### Candela Table

Vertical Angles	Candela
0	492
5	487
15	456
25	403
35	343
45	273

### Test Information

Test Number: NTR1299  
 Part Number: NLCBC2-65130WW/A  
 Beam Spread: 101° Wide Flood  
 Lumens: 857lm  
 Wattage: 9.54W  
 Efficacy: 90lpw  
 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'	23.7fc	9'-8"
6'	10.5fc	14'-7"
8'	5.9fc	19'-5"
10'	3.8fc	24'-4"
12'	2.6fc	29'-2"

### Zonal Lumen Summary

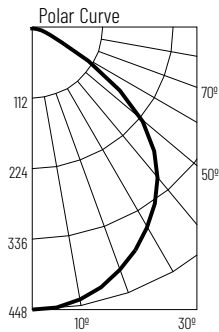
Zone	Lumens	% Luminaire
0-30	289	33.7
0-40	468	54.6
0-60	774	90.4
0-90	853	99.5
90-180	4	0.5
0-180	857	100

### Candela Table

Vertical Angles	Candela
0	379
5	378
15	361
25	330
35	289
45	234

### Test Information

Test Number: NTR1305  
 Part Number: NLCBC2-65130WW/10  
 Beam Spread: 101° Wide Flood  
 Lumens: 1021lm  
 Wattage: 11.35W  
 Efficacy: 90lpw  
 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'	28fc	9'-10"
6'	12.4fc	14'-8"
8'	7fc	19'-7"
10'	4.5fc	24'-6"
12'	3.1fc	29'-5"

### Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	341	33.4
0-40	553	54.1
0-60	918	89.9
0-90	1013	99.2
90-180	8	0.8
0-180	1021	100

### Candela Table

Vertical Angles	Candela
0	448
5	446
15	427
25	388
35	341
45	278