

NLCBC2-65 Series

6" Cobalt Click LED Retrofit Reflectors

Source: 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 produce up to 1000 lumen output at 90+ CRI. The Cobalt series integrates an array of COB LEDs, giving bright spectacular light output and low power consumption.

FEATURES

- 750lm or 1000lm LED output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- 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 / 12W or 1000lm / 12W

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

CRI: 90+ CRI

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

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 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

* 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-60R: Round oversize ring used to cover ceiling cut-outs up to 8".

NLCBC2-6DR: Frosted round decorative ring ships with white reflector.

NLCBC2-6DDF: Frosted round decorative dome ships with white reflector.

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



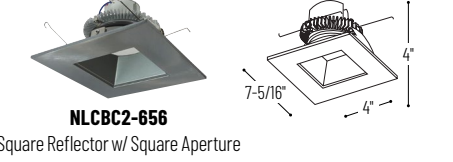
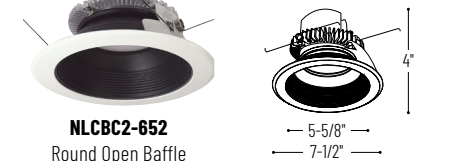
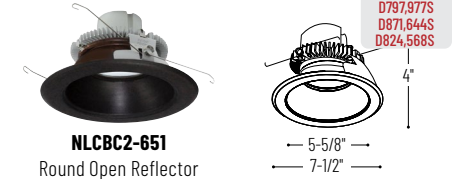
Type

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	(blank) = 750lm / 12W	(blank) = 120V Triac/ELV
NLCBC2-652 = Round Baffle	30 = 3000K	BW = Black / White	/10 = 1000lm / 12W	EM = Remote Emergency
NLCBC2-653 = Square Round	35 = 3500K	BZBZ = Bronze / Bronze		(requires Nora EM housing)
NLCBC2-656 = Square Regress	40 = 4000K	COCO = Copper / Copper		LE4 = 120V 0-10V/Triac/ELV
	CD = Comfort Dim ¹	DW = Diffused / White		277V 0-10V (req. Nora 4W housing)
		HZMPW = Haze / Matte Powder White		LE4EM = LE4 w/ Remote Emergency
		HZW = Haze / White		(requires Nora 6WEM housing)
		MPW = Matte Powder White		
		NN = Natural Metal / Nat. Metal		
		PW = Pewter / White		
		WW = White / White		

¹ 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-60R-B = 6" Round Oversize Ring, Black
NLCBC-60R-BZ = 6" Round Oversize Ring, Bronze
NLCBC-60R-MPW = 6" Round Oversize Ring, Matte Powder White
NLCBC-60R-W = 6" Round Oversize Ring, White
NLCBC2-6DRFA = 6" Round Decorative Ring, Frosted Amber
NLCBC2-6DRFB = 6" Round Decorative Ring, Frosted Blue
NLCBC2-6DRFR = 6" Round Decorative Ring, Frosted Red
NLCBC2-6DRFW = 6" Round Decorative Ring, Frosted White
NLCBC2-6DDFW = 6" Round Decorative Dome, Frosted White
NRA-211SM = Medium base screw-in socket (included)
NRA-212SM = Socket adapter for use with GU24 housings

Example: **NLCBC2-65130MPW/10** = 6" Cobalt Click LED Retrofit Reflector, 1000lm / 12W LED, 3000K, Matte Powder White Finish

NLCBC2-65 Series
6" Cobalt Click Retrofit Reflector Accessories

Type	
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Cobalt 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



Cobalt Oversize Ring

NLCBC-6OR-B Black
NLCBC-6OR-BZ Bronze
NLCBC-6OR-MPW Matte Powder White
NLCBC-6OR-W White
Round oversize ring covers ceiling cut-outs up to 8"



Cobalt Click Decorative Ring

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



Cobalt Click Decorative Dome

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

PHOTOMETRICS

6" Cobalt Click Retrofit Series

750 lumens

Type

Project

Catalog No.

Notes

Test Information

Test Number: 795866

Part Number: NLCBC2-65130WWLE4

Lumens: 896lm

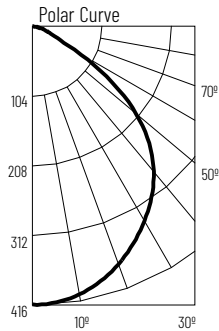
Wattage: 12.4W

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

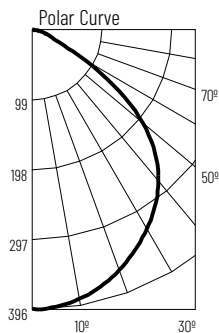
Wattage: 12.4W

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

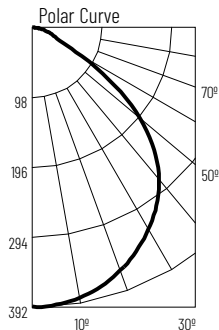
Wattage: 12.4W

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

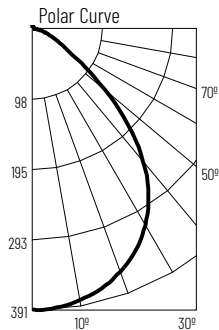
Wattage: 12.6W

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

PHOTOMETRICS

6" Cobalt Click Retrofit Series

1000 lumens

Type

Project

Catalog No.

Notes

Test Information

Test Number: NTR1304

Part Number: NLCBC2-65127WW/10

Beam Spread: 95° Wide Flood

Lumens: 1006lm

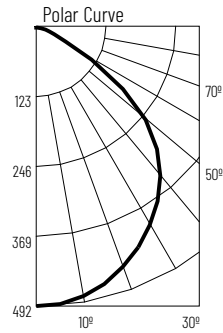
Wattage: 11.58W

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: NTR1305

Part Number: NLCBC2-65130WW/10

Beam Spread: 101° Wide Flood

Lumens: 1021lm

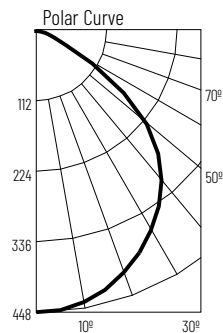
Wattage: 11.35W

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