

NORA[®]
LIGHTING



COBALT SERIES

ONE FAMILY - FIVE STYLES



COBALT SERIES

COMMERCIAL AND RESIDENTIAL LED DOWNLIGHTING

The Cobalt Series is a family of commercial and residential LED downlights comprised of five different styles integrating the latest COB technology. An excellent choice for any project, Cobalt has design specific luminaires for applications as diverse as sloped ceiling, high ceiling, shallow plenum, retrofit and more.

Cobalt Click retrofit luminaires produce up to 1000lm and offer white dimming and comfort dim options. Cobalt High Lumen can produce up to 2000 lumens from a dedicated IC or non-IC housing. Cobalt Adjustable and Cobalt Elbow retrofit luminaires allow aiming flexibility from below the ceiling while never exposing ceiling cavity. Cobalt Shallow features an IC Air-Tight housing with a depth of just 2-5/8".

CONSISTENCY

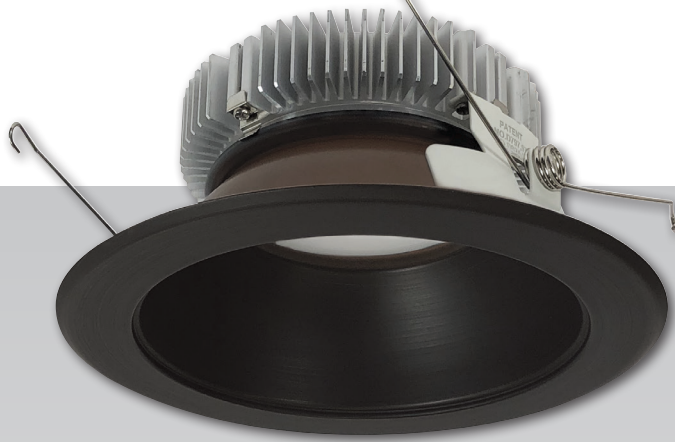
Cobalt Series features color consistency across the line. Whether the application is high-ceiling or wall wash, 4", 5" or 6", square or round aperture, all luminaires have consistent color. Cobalt uses the latest COB technology for long lasting color consistency to meet design specifications for any job, large or small.

QUALITY

Cobalt LED Downlights are backed by a 5-year limited warranty. Our Commerce, CA facility has state-of-the-art testing equipment to ensure that each unit meets our exacting quality standards. Additionally, most Cobalt downlights are ENERGY STAR® certified. With over one million units already in operation, we are confident the end user will appreciate the performance and energy savings.

VERSATILITY

Cobalt "Click" allows the customer or distributor to easily change the reflector to meet design or changing criteria. Available in Triac/ELV or 0-10V dimming, 120 or 277V, eight finish selections, 4", 5" and 6" apertures in square or round, wall-wash, baffle, reflector, the Cobalt series is perfect for residential and light commercial retrofit, new construction and remodel applications.



COBALT CLICK

LED retrofit luminaire for residential and light commercial applications. Available in 4", 5" or 6" apertures in 750 or 1000 lumens at 90+ CRI. Offered in a variety of CCT options including Comfort Dim.



COBALT HIGH LUMEN

Excellent for high ceiling and commercial applications. A dedicated LED luminaire producing up to 2000 lumens at 90+ CRI. IC and non-IC housings available in 6" aperture.



COBALT SHALLOW

Ideal for multi-family units or other shallow plenum constructions. The 2-5/8" deep IC air-tight dedicated LED housing allows access to driver from below the ceiling. Available in 4" aperture in 850 or 1250 lumens at 90+ CRI.



COBALT ADJUSTABLE

4", 5", 6" LED retrofit luminaire produces up to 1000 lumens at 90+ CRI. Adjustable aiming never exposes an opening or breaks the ceiling plane. Includes field-changeable optics for spot, narrow flood and flood beam spreads. TIR premium optics available.

COBALT ELBOW

Flexible 4" LED retrofit luminaire with 358° horizontal and 90° vertical adjustment. Elbow produces 800 lumens at 90+ CRI. Field-changeable optics for spot and narrow flood beam spreads are included.

COBALT SERIES COMPARISON CHART

FAMILY	COBALT CLICK	COBALT HIGH LUMEN	COBALT SHALLOW	COBALT ADJUSTABLE	COBALT ELBOW
SERIES	NLCBC2	NLCB2	NLCBS	NLCBC-x69	NLCBC-470
APPLICATION	Residential, Light Commercial	High Ceilings, Commercial	Shallow Plenum, Multi-Family	Sloped Ceiling, Wall Wash	Wall Wash, Picture / Art
FIELD CHANGEABLE TRIM	Yes	Yes	Yes	No	No
LUMENS / WATTAGE	750lm / 10W or 1000lm / 12W	1500lm / 22W or 2000lm / 28W-30W	850lm / 13.5W or 1250lm / 16.5W	900lm / 12W or 1000lm / 14W	800lm / 13W
REFLECTOR STYLE	Reflector, Baffle or Square	Reflector, Baffle or Square	Reflector, Baffle or Square	Adjustable	Adjustable Elbow
EYELID / OVERSIZE RING OPTION	Yes	Yes	No	No	No
APERTURES	4", 5" and 6"	6"	4"	4", 5" and 6"	4"
LED TYPE	Signify® COB	Cree® COB	Cree® COB	Cree® COB	Cree® COB
CCT / CRI	2700K, 3000K, 3500K, 4000K or Comfort Dim (3100K-1700K) / 90+ CRI	2700K, 3000K, 3500K or 4000K / 90+ CRI	2700K, 3000K, 3500K or 4000K / 90+ CRI	2700K, 3000K, 3500K or 4000K / 90+ CRI	2700K, 3000K, 3500K or 4000K / 90+ CRI
LUMENS PER WATT	81-90	66-71	65-80	70-75	62
RETROFIT AVAILABLE	Yes	No	No	Yes	Yes
DEDICATED HOUSING	No	Yes (IC and non-IC)	Yes (IC Air-Tight)	No	No
REMODEL	Yes	Yes	No	Yes	Yes
FIRE BOX COMPATIBLE	Yes	No	No	Yes	Yes
DIMMABLE	Triac, ELV or 0-10V	Triac, ELV or 0-10V	Triac, ELV or 0-10V	Triac, ELV or 0-10V	Triac or ELV
277V OPTION	Yes	Yes	Yes	Yes	Yes, with housing
LISTING	Wet	Wet	Wet	Damp	Damp
EMERGENCY UNIT	Yes	Yes	No	Yes	Yes
LIMITED WARRANTY	5 Year	5 Year	5 Year	5 Year	5 Year

COBALT CLICK SERIES RETROFIT

4" RETROFIT 750LM OR 1000LM



Each Cobalt retrofit includes a medium base socket for easy retrofitting



NLCBC2-451
4" Deep Reflector
BB, BW, BZBZ, COCO, DW,
HZW, MPW, NN, WW



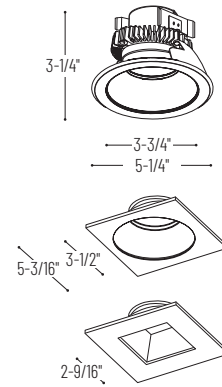
NLCBC2-452
4" Deep Baffle
BB, BW, BZBZ, MPW, NN, WW



NLCBC2-453
4" Square Round
BZBZ, DW, HZW, MPW, WW



NLCBC2-456
4" Square Regress
BB, BW, BZBZ, HZW, MPW, NN,
PW, WW



COBALT CLICK SERIES 4" 750LM OR 1000LM RETROFIT

SERIES / REFLECTOR TYPE	COLOR TEMP / CRI	FINISH	LUMENS / WATTAGE	DIMMING + EMERGENCY
NLCBC2-451 Deep Reflector	27 2700K / 90 CRI	BB Black with Black Flange	(blank) 750lm / 10W	(blank) 120V Triac / ELV
NLCBC2-452 Deep Baffle	30 3000K / 90 CRI	BW Black with White Flange	/10 1000lm / 12W	EM Remote Emergency (requires Nora EM housing)
NLCBC2-453 Square Round	35 3500K / 90 CRI	BZBZ Bronze with Bronze Flange		LE4 120V 0-10V / Triac; 277V 0-10V (requires Nora 4W housing)
NLCBC2-456 Square Regress	40 4000K / 90 CRI	COCO Copper with Copper Flange		LE4EM LE4 w/ Remote Emergency (requires Nora 6WEM housing)
units are cULus classified for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	CD Comfort Dim Comfort Dim available in 750lm only	DW Diffused Clear with White Flange		
		HZW Haze with White Flange		
		MPW Matte Powder White		
		NN Natural Metal with Natural Metal Flange		
		PW Pewter with White Flange (456 only)		
		WW White with White Flange		

Example: **NLCBC2-45130WW** - 4" Cobalt Click Retrofit Deep Reflector, 750lm / 10W, 3000K / 90 CRI, White Reflector with White Flange

LED Cobalt Click luminaires are cULus classified for use in existing IC or non-IC housings manufactured by Nora and others. The units produce up to 1000 lumen output and integrate an array of LEDs, giving bright spectacular light output and low power consumption.

ELECTRICAL:

Voltage: 120V or 277V

Lumens / Wattage: 750lm / 10W or 1000lm / 12W

Color Temperature: 2700K, 3000K, 3500K, 4000K or Comfort Dim (3100K-1700K)

Color Rendering Index: 90+ CRI

Operating Temperature: 0°C-25°C

Dimming: Triac, ELV or 0-10V

COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 1700K on a gradual, even curve. Available in 750lm only.

RETROFIT:

Cobalt retrofit series includes medium base screw-socket adapter (NRA-21ISM) for retrofitting into existing medium base downlight housings. GU24 socket adapter is available for use with GU24 housings, must specify NRA-212SM.

INSTALLATION: Two steel, spring mounting blades allow for easy and secure mounting in most 4" housings.

CONSTRUCTION: Unitized Thermal Management system (UTM) provides exceptional cool operation exceeding all industry standards. "Click" system allows trims to be easily changed in the field.

ACCESSORIES:

NLCBC-4EYELID(finish) - Round eyelid used to convert round reflector or baffle to half moon wall wash trim. Available in black, bronze, matte powder white or white.

NLCBC-4OR(finish) - Round oversize ring used to cover ceiling cut-outs up to 6". Available in black, bronze, matte powder white or white.

NLCBC2-4DR(finish) - Frosted round decorative ring ships with white reflector. Available in amber, blue, red or white.

LISTING & WARRANTY:

- cULus Classified for Wet Locations
- Certified to the high efficacy requirements of California Title 24 JA8-2019
- ENERGY STAR certified
- 5-Year Limited Warranty



COMPATIBLE HOUSINGS:

New Construction

- NHIC-4LMRAT** 4" ICAT Dedicated LED
- NHIC-4LMRAT/EM** 4" ICAT Dedicated LED for EM
- NHIC-4LMRAT/4W** 4" ICAT Dedicated LED for LE4
- NHIC-4LMRAT/6WEM** 4" ICAT Ded. LED for LE4EM
- NHIC-4LMRAT/277** 4" ICAT Dedicated LED, 277V Includes step-down transformer. Converts 277V to 120V
- NHICCP-4LMRAT** 4" Chicago Plenum LED Dedicated
- NFBIC-4LMRATA** 4" ICAT Dedicated LED Fire Box
- NFBIC-4LMRATA/4W** 4" ICAT LED Fire Box for LE4
- NSIC-401QAT** 4" ICAT Line Voltage
- NFBIC-4INCATA** 4" ICAT Line Voltage Fire Box
- NS-401QAT** 4" AT Line Voltage
- NHIC-4624AT** 4" ICAT GU24

Remodel

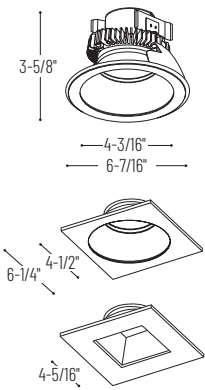
- NHRIC-4LMRAT** 4" Remodel ICAT Dedicated LED
- NSRIC-404QAT** 4" Remodel ICAT Line Voltage
- NSR-404QAT** 4" Remodel AT Line Voltage
- NHRIC-4624AT** 4" Remodel ICAT GU24



Each Cobalt retrofit includes a medium base socket for easy retrofitting

RETROFIT COBALT CLICK SERIES

750LM OR 1000LM 5" RETROFIT



NLCBC2-551
5" Deep Reflector
BB, BZBZ, COCO, DW,
HZW, MPW, NN, WW



NLCBC2-552
5" Deep Baffle
BB, BZBZ, MPW, NN, WW



NLCBC2-553
5" Square Round
BZBZ, DW, HZW, MPW, WW



NLCBC2-556
5" Square Regress
BB, BZBZ, HZW, MPW,
NN, PW, WW

COBALT CLICK SERIES 5" 750LM OR 1000LM RETROFIT

SERIES / REFLECTOR TYPE	COLOR TEMP / CRI	FINISH	LUMENS / WATTAGE	DIMMING + EMERGENCY
NLCBC2-551 Deep Reflector	27 2700K / 90 CRI	BB Black with Black Flange	(blank) 750lm / 10W	(blank) 120V Triac / ELV
NLCBC2-552 Deep Baffle	30 3000K / 90 CRI	BZBZ Bronze with Bronze Flange	/10 1000lm / 12W	EM Remote Emergency (requires Nora EM housing)
NLCBC2-553 Square Round	35 3500K / 90 CRI	COCO Copper with Copper Flange		LE4 120V 0-10V / Triac; 277V 0-10V (requires Nora 4W housing)
NLCBC2-556 Square Regress	40 4000K / 90 CRI	DW Diffused Clear with White Flange		LE4EM LE4 w/ Remote Emergency (requires Nora 6WEM housing)
	CD Comfort Dim	HZW Haze with White Flange		
	Comfort Dim available in 750lm only	MPW Matte Powder White		
		NN Natural Metal with Natural Metal Flange		
		PW Pewter with White Flange (556 only)		
		WW White with White Flange		

Example: **NLCBC2-55130WW** - 5" Cobalt Click Retrofit Deep Reflector, 750lm / 10W, 3000K / 90 CRI, White Reflector with White Flange

LED Cobalt Click luminaires are cULus classified for use in existing IC or non-IC housings manufactured by Nora and others. The units produce up to 1000 Lumen output and integrate an array of LEDs, giving bright spectacular light output and low power consumption.

ELECTRICAL:

Voltage: 120V or 277V

Lumens / Wattage: 750lm / 10W or 1000lm / 12W

Color Temperature: 2700K, 3000K, 3500K, 4000K or Comfort Dim (3100K-1700K)

Color Rendering Index: 90+ CRI

Operating Temperature: 0°C-25°C

Dimming: Triac, ELV or 0-10V

COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 1700K on a gradual, even curve. Available in 750lm only.

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.

INSTALLATION: Two steel, spring mounting blades allow for easy and secure mounting in most 5" housings.

CONSTRUCTION: Unitized Thermal Management system (UTM) provides exceptional cool operation exceeding all industry standards. "Click" system allows trims to be easily changed in the field.

ACCESSORIES:

NLCBC-5EYELID(finish) - Round eyelid used to convert round reflector or baffle to half moon wall wash trim. Available in black, bronze, matte powder white or white.

NLCBC-50R(finish) - Round oversize ring used to cover ceiling cut-outs up to 7-1/8". Available in black, bronze, matte powder white or white.

NLCBC2-5DR(finish) - Frosted round decorative ring ships with white reflector. Available in amber, blue, red or white.

LISTING & WARRANTY:

- cULus Classified for Wet Location
- Certified to the high efficacy requirements of California Title 24 JA8-2019
- ENERGY STAR certified
- 5-Year Limited Warranty



COMPATIBLE HOUSINGS:

New Construction

NHIC-5LMRAT 5" ICAT Dedicated LED

NHIC-5LMRAT/EM 5" ICAT Dedicated LED for EM

NHIC-5LMRAT/4W 5" ICAT Dedicated LED for LE4

NHIC-5LMRAT/6WEM 5" ICAT Ded. LED for LE4EM

NHIC-5LMRAT/277 5" ICAT Dedicated LED, 277V

Includes step-down transformer. Converts 277V to 120V

NFBIC-5LMRATA 5" ICAT Dedicated LED Fire Box

NHIC-527LMRAT 5" Shallow ICAT Dedicated LED

NHIC-501QAT 5" ICAT Line Voltage

NFBIC-5INCATA 5" ICAT Line Voltage Fire Box

NHIC-527QAT 5" Shallow ICAT Line Voltage

NH-501Q 5" Non-IC Line Voltage

NHIC-5624ATFL 5" ICAT GU24

Remodel

NHRIC-5LMRAT 5" Remodel ICAT Dedicated LED

NHRIC-527LMRAT 5" Remodel Shallow ICAT Ded. LED

NHRIC-504QAT 5" Remodel ICAT Line Voltage

NHRIC-527QAT 5" Remodel Shallow ICAT Line Voltage

NHR-504Q 5" Remodel Non-IC Line Voltage

COBALT CLICK SERIES RETROFIT

6" RETROFIT 750LM OR 1000LM



Each Cobalt retrofit includes a medium base socket for easy retrofitting



NLCBC2-651
6" Deep Reflector
BB, BW, BZBZ, COCO, DW,
HZMPW, HZW, MPW, NN, WW



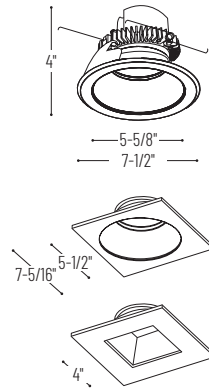
NLCBC2-652
6" Deep Baffle
BB, BW, BZBZ,
MPW, NN, WW



NLCBC2-653
6" Square Round
BZBZ, DW, HZW, MPW, WW



NLCBC2-656
6" Square Regress
BB, BW, BZBZ, HZW, MPW,
NN, PW, WW



COBALT CLICK SERIES 6" 750LM OR 1000LM RETROFIT

SERIES / REFLECTOR TYPE	COLOR TEMP / CRI	FINISH	LUMENS / WATTAGE	DIMMING + EMERGENCY
NLCBC2-651 Deep Reflector	27 2700K / 90 CRI	BB Black with Black Flange	(blank) 750lm / 10W	(blank) 120V Triac / ELV
NLCBC2-652 Deep Baffle	30 3000K / 90 CRI	BW Black with White Flange	/10 1000lm / 12W	EM Remote Emergency (requires Nora EM housing)
NLCBC2-653 Square Round	35 3500K / 90 CRI	BZBZ Bronze with Bronze Flange		LE4 120V 0-10V / Triac; 277V 0-10V (requires Nora 4W housing)
NLCBC2-656 Square Regress	40 4000K / 90 CRI	COCO Copper with Copper Flange		LE4EM LE4 w/ Remote Emergency (requires Nora 6WEM housing)
units are cULus classified for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	CD Comfort Dim Comfort Dim available in 750lm only	DW Diffused Clear with White Flange HZMPW Haze with Matte Powder White Flange HZW Haze with White Flange MPW Matte Powder White NN Natural Metal with Natural Metal Flange PW Pewter with White Flange (656 only) WW White with White Flange		

Example: **NLCBC2-65130WW** - 6" Cobalt Click Retrofit Deep Reflector, 750lm / 10W, 3000K / 90 CRI, White Reflector with White Flange

LED Cobalt Click luminaires are cULus classified for use in existing IC or non-IC housings manufactured by Nora and others. The units produce up to 1000 lumen output and integrate an array of LEDs, giving bright spectacular light output and low power consumption.

ELECTRICAL:

Voltage: 120V or 277V

Lumens / Wattage: 750lm / 10W or 1000lm / 12W

Color Temperature: 2700K, 3000K, 3500K, 4000K or Comfort Dim (3100K-1700K)

Color Rendering Index: 90+ CRI

Operating Temperature: 0°C-25°C

Dimming: Triac, ELV or 0-10V

COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 3100K, to a romantic and comfortable 1700K on a gradual, even curve. Available in 750lm only.

RETROFIT:

Cobalt retrofit series includes medium base screw-socket adapter (NRA-21ISM) for retrofitting into existing medium base downlight housings. GU24 socket adapter is available for use with GU24 housings, must specify NRA-212SM.

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

CONSTRUCTION: Unitized Thermal Management system (UTM) provides exceptional cool operation exceeding all industry standards. "Click" system allows trims to be easily changed in the field.

ACCESSORIES:

NLCBC-6EYELID(finish) - Round eyelid used to convert round reflector or baffle to half moon wall wash trim. Available in black, bronze, matte powder white or white.

NLCBC-60R(finish) - Round oversize ring used to cover ceiling cut-outs up to 8-1/4". Available in black, bronze, matte powder white or white.

NLCBC2-6DR(finish) - Frosted round decorative ring ships with white reflector. Available in amber, blue, red or white.

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

LISTING & WARRANTY:

- cULus Classified for Wet Location
- Certified to the high efficacy requirements of California Title 24 JA8-2019
- ENERGY STAR certified
- 5-Year Limited Warranty



COMPATIBLE HOUSINGS:

New Construction

- NHIC-6LMRAT** 6" ICAT Dedicated LED
- NHIC-6LMRAT/EM** 6" ICAT Dedicated LED for EM
- NHIC-6LMRAT/4W** 6" ICAT Dedicated LED for LE4
- NHIC-6LMRAT/6WEM** 6" ICAT Ded. LED for LE4EM
- NHIC-6LMRAT/277** 6" ICAT Dedicated LED, 277V
Includes step-down transformer. Converts 277V to 120V
- NHICCP-6LMRAT** 6" Chicago Plenum LED Dedicated
- NFBIC-6LMRATA** 6" ICAT Dedicated LED Fire Box
- NFBIC-6LMRATA/4W** 6" ICAT Ded. LED Fire Box for LE4
- NHIC-27LMRAT** 6" Shallow ICAT Dedicated LED
- NHIC-17QAT** 6" ICAT Line Voltage
- NFBIC-6INCATA** 6" ICAT Line Voltage Fire Box
- NHIC-27QAT** 6" Shallow ICAT Line Voltage
- NH-26Q** 6" Non-IC Line Voltage
- NHIC-6G24ATFL** 6" ICAT GU24

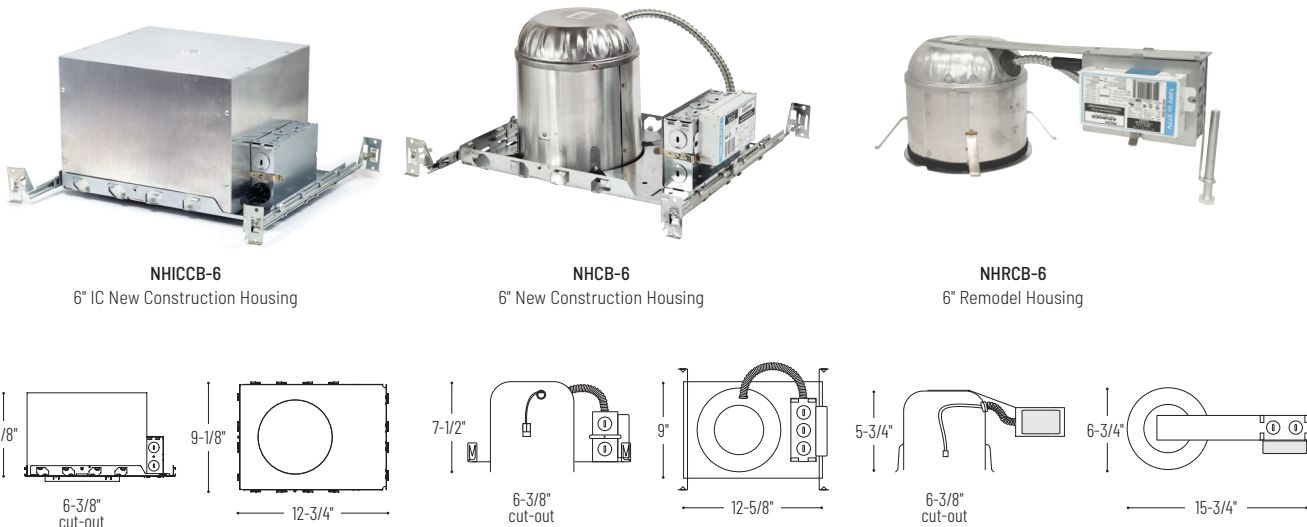
Remodel

- NHRIC-6LMRAT** 6" Remodel ICAT Dedicated LED
- NHRIC-27LMRAT** 6" Shallow Remodel ICAT Ded. LED
- NHRIC-17QAT** 6" Remodel ICAT Line Voltage
- NHRIC-27QAT** 6" Shallow Remodel ICAT Line Voltage
- NHR-26Q** 6" Remodel Line Voltage



COBALT HIGH LUMEN SERIES COMMERCIAL AND RESIDENTIAL

6" HOUSING 1500LM OR 2000LM



COBALT HIGH LUMEN SERIES 6" HOUSING

SERIES / APERTURE	LUMENS / WATTAGE	VOLTAGE	OPTIONAL EMERGENCY
NHICCB-6 ICAT New Construction	15 1500lm / 22W 20 2000lm / 28W	LE4 120/277V input; Triac, ELV or 0-10V	PEM Pre-wired for Emergency Battery (specify battery and test switch separately)
NHCB-6 Non-IC New Construction	15 1500lm / 22W 20 2000lm / 30W	LE6 120-277V input; 0-10V dimming	/EM Emergency with Remote Test Switch
NHRCB-6 Non-IC Remodel	15 1500lm / 22W 20 2000lm / 30W	LE1 120V input; 0-10V dimming LE2 277V input; 0-10V dimming	

Example: **NHRCB-620LE2** - 6" Cobalt High Lumen Non-IC Remodel Housing, 2000lm / 34W, 277V input; 0-10V dimming

Cobalt High Lumen LED dedicated new construction and remodel housings allow our Cobalt High Lumen reflectors to produce up to 2000 lumens. The reflectors look identical to a 6" Cobalt from below the ceiling, but produce an incredible 1500 or 2000 lumens at 90+CRI for higher ceiling applications.

ELECTRICAL:

Voltage: 120V or 277V

Lumens: 1500lm or 2000lm

Wattage: Varies by housing

Color Rendering Index: 90+ CRI

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

Dimming: Triac, ELV or 0-10V (must specify)

CONSTRUCTION:

Housing: High quality, die-cut 0.040 aluminum one-piece frame. Arm consisting of 0.050 structural steel connects remodel housing with junction box.

Reflector: Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output.

INSTALLATION:

New Construction: Bar hangers are adjustable to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installations.

Remodel: High-tension tempered steel springs secure remodel housings evenly to the ceiling. Accommodates ceiling thicknesses from 1/2" to 1-1/4".

MINIMUM CLEARANCES: Non-IC fixtures require minimum clearances of 3" from thermal insulation and 1/2" from adjacent building components. IC rated housings require no minimum clearance.

EMERGENCY OPTION:

Emergency back-up operates LED for a minimum of 90 minutes. IC Air-Tight housing requires a remote battery, specify NEPK-07LEDUNV.

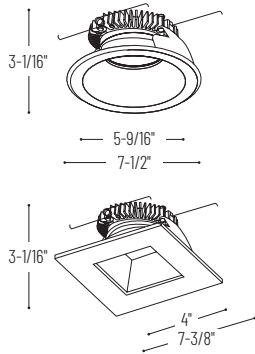
LISTING & WARRANTY:

- cULus Listed for Wet Location
- Meets or exceeds ASTM-283 Air-Tight Requirements (IC housing only)
- ENERGY STAR certified
- Certified to the high efficacy requirements of California Title 24 JA8-2019 (IC housing only)
- 5 Year Limited Warranty



COMMERCIAL AND RESIDENTIAL COBALT HIGH LUMEN SERIES

1500LM OR 2000LM 6" REFLECTORS



NLCB2-651
6" Reflector
BB, BW, BZBZ, COCO, DW, HZW, MPW, NN, WW

NLCB2-652
6" Baffle
BB, BW, BZBZ, MPW, NN, WW

NLCB2-653
6" Square w/Round Aperture
BZBZ, DW, HZW, MPW, WW

NLCB2-656
6" Square Regress
BB, BW, BZBZ, HZW, MPW, NN, PW, WW

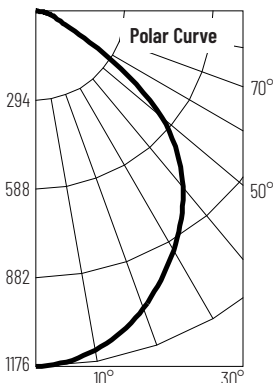
COBALT HIGH LUMEN SERIES 6" REFLECTORS REQUIRES NHICCB-6, NHCB-6 OR NRCB-6 HOUSING

SERIES / APERTURE	REFLECTOR TYPE	LUMENS	COLOR TEMP	FINISH
NLCB2-6	51 Round Reflector	15 1500lm	27 2700K	BB Black w/Black Flange
	52 Round Baffle		30 3000K	BW Black w/White Flange
	53 Square with Round Aperture	20 2000lm	35 3500K	BZBZ Bronze w/Bronze Flange
	56 Square with Square Aperture		40 4000K	COCO Copper w/Copper Flange
				DW Diffused Clear w/White Flange
				HZW Haze w/White Flange
				MPW Matte Powder White w/Matte Powder White Flange
				NN Nat Metal w/Nat Metal Flange
				PW Pewter w/White Flange (656 only)
				WW White w/White Flange

Example: **NLCB2-6512035WW** - 6" Cobalt High Lumen Round Reflector, 2000lm, 3500K, White Reflector with White Flange

PHOTOMETRICS

Test Number: NTR1167
Part Number: NLCB2-6512040WW
Lumens: 2495lm
Wattage: 27.58W
Efficacy: 90lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.18
Spacing Criteria (90°-270°): 1.18



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
6'	32.7fc	13'-5"
9'	14.5fc	20'-1"
12'	8.2fc	26'-11"
15'	5.2fc	33'-7"
18'	3.6fc	40'-4"

Candela Table

Vertical Angles	Candela
0	1176
5	1172
15	1102
25	984
35	844
45	668

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	875	35.1
0-40	1402	56.2
0-60	2252	90.3
0-90	2470	99
90-180	24	1
0-180	2495	100

ACCESSORIES

NLCBC-6EYELIDB Round Eyelid, Black
NLCBC-6EYELIDBZ Round Eyelid, Bronze
NLCBC-6EYELIDMPW Round Eyelid, Matte Powder White
NLCBC-6EYELIDW Round Eyelid, White

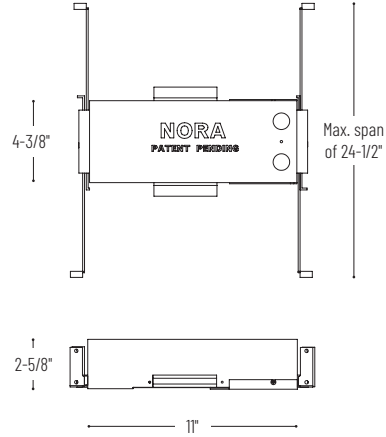
NLCBC-60R-B Round Oversize Ring, Black
NLCBC-60R-BZ Round Oversize Ring, Bronze
NLCBC-60R-MPW Round Oversize Ring, Matte Powder White
NLCBC-60R-W Round Oversize Ring, White

COBALT SERIES COMMERCIAL AND RESIDENTIAL

4" SHALLOW IC AIR-TIGHT HOUSING 850LM OR 1250LM



NHSIC-4
4" Cobalt Shallow IC Air-Tight New Construction Housing



COBALT SERIES 4" SHALLOW HOUSING

SERIES / APERTURE	LUMENS / WATTAGE	VOLTAGE
NHSIC-4 4" Shallow IC Air-Tight New Construction	85 850lm / 13.5W	LE3LT 120V input; Triac / ELV Dimming
	12 1250lm / 16.5W	LE4LT 120-277V input; Triac / ELV / 0-10V Dimming

Example: **NHSIC-485LE3LT** - 4" Cobalt Shallow IC Air-Tight New Construction Housing, 850lm / 13.5W, 120V Input; Triac/ELV dimming

Shallow, specification grade, IC air-tight new construction housing that is only 2-5/8" tall. The patent pending driver design allows complete accessibility from below the ceiling. Dedicated reflectors are available in multiple finishes and lumens outputs, in round and square apertures. Cobalt family utilizes the latest COB LED technology throughout, for consistent and uniform appearance.

ELECTRICAL:

Voltage: 120V or 120-277V
Lumens / Wattage: 850lm / 13.5W or 1250lm / 16.5W
Color Rendering Index: 90+ CRI
Color Temperature: 2700K, 3000K, 3500K, 4000K
LED: Cree® COB
Dimming: Triac, ELV or 0-10V dimming

CONSTRUCTION:

Housing: Heavy gauge welded 0.04" steel housing with two inner boxes adjusts from 3/8" to 1-1/4" maximum ceiling thickness. Suitable for contact with insulation. Patent pending movable driver compartment for easy access to driver after installation.
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 COB board images when off. Available in round reflector, baffle, square/round and square/square styles

INSTALLATION:

New Construction: Bar hangers are adjustable to 24-1/2" and can be repositioned 90 degrees. Bar hangers are slotted for T-bar installations.

MINIMUM CLEARANCES: IC housings are rated for direct contact with thermal insulation and does not have any minimum clearance requirements.

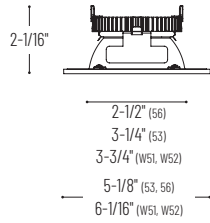
LISTING & WARRANTY:

- cULus Listed for Wet Location
- Meets or exceeds ASTM-283 Air-Tight Requirements
- ENERGY STAR certified
- Certified to the high efficacy requirements of California Title 24 JA8-2019
- 5 Year Limited Warranty



COMMERCIAL AND RESIDENTIAL COBALT SERIES

850LM OR 1250LM 4" SHALLOW IC AIR-TIGHT REFLECTORS



- 2-1/2" (56)
- 3-1/4" (53)
- 3-3/4" (W51, W52)
- 5-1/8" (53, 56)
- 6-1/16" (W51, W52)

NLCBS-4W51
4" Round Reflector
BZ, DMPW, HMPW, MPW, WW

NLCBS-4W52
4" Round Baffle
BZ, MPW, WW

NLCBS-453
4" Square w/Round Aperture
BZ, DW, HZW, MPW, WW

NLCBS-456
4" Square w/Square Aperture
BB, BW, BZ, HZW, MPW, NN,
PW, WW

COBALT SERIES 4" SHALLOW REFLECTORS REQUIRES NHSIC-4 HOUSING

SERIES / APERTURE	REFLECTOR TYPE	LUMENS / WATTAGE	COLOR TEMP	FINISH
NLCBS-4	W51 Round Reflector	85 850lm / 13.5W	27 2700K	BB Black w/Black Flange
	W52 Round Baffle	12 1250lm / 16.5W	30 3000K	BW Black w/White Flange
	53 Square with Round Aperture		35 3500K	BZ Bronze w/Bronze Flange
	56 Square with Square Aperture		40 4000K	DW Diffused Clear w/White Flange
				DMPW Diffused Clear w/Matte Powder White Flange
				HMPW Haze w/Matte Powder White Flange
				HZW Haze w/White Flange
				MPW Matte Powder White
				NN Natural Metal w/Natural Metal Flange
				PW Pewter w/White Flange (456 only)
				WW White w/White Flange

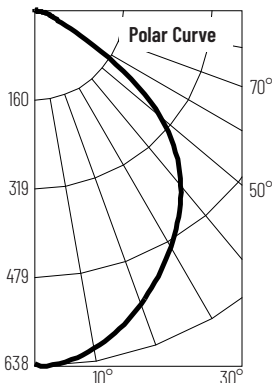
Example: **NLCBS-4538530WW** - 4" Cobalt Shallow Square Reflector w/Round Aperture, 850lm / 13W, 3000K, White Reflector / White Flange.

PHOTOMETRICS

Test Number: NTR1177
Part Number: NLCBS-4W511240WW
Lumens: 1330lm
Wattage: 15.4W
Efficacy: 86lpw
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'	39.7fc	9'
6'	17.6fc	13'-7"
8'	9.9fc	18'-1"
10'	6.3fc	22'-7"
12'	4.4fc	27'-1"



Candela Table

Vertical Angles	Candela
0	634
5	630
15	591
25	525
35	449
45	360

Zonal Lumen Summary

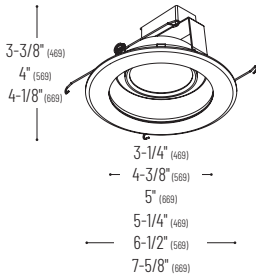
Zone	Lumens	% Luminaire
0-30	468	35.2
0-40	749	56.3
0-60	1212	91.2
0-90	1320	99.3
90-180	10	0.7
0-180	1330	100



RETROFIT COBALT ADJUSTABLE SERIES

900LM TO 1000LM 4", 5", 6" RETROFIT

Each Cobalt retrofit includes a medium base socket for easy retrofitting



NLCBC-469
4" Adjustable Reflector
BB, BZBZ, HZN, HZW, MPW, WW



NLCBC-569
5" Adjustable Reflector
BB, BZBZ, HZN, HZW, MPW, WW



NLCBC-669
6" Adjustable Reflector
BB, BZBZ, HZN, HZW, MPW, WW

COBALT ADJUSTABLE SERIES 4", 5", 6" RETROFIT

APERTURE / LUMENS / WATTAGE	REFLECTOR TYPE	COLOR TEMP	FINISH	DRIVER/DIMMING
NLCBC-4 4" / 900lm / 12W NLCBC-5 5" / 1000lm / 14W NLCBC-6 6" / 1000lm / 14W units are cULus classified for use with Nora dedicated housings and housings by others. Each unit ships with a medium base socket kit for retrofitting.	69 Adjustable Reflector	27X 2700K 30X 3000K 35X 3500K 40X 4000K	BB Black with Black Flange BZBZ Bronze with Bronze Flange HZN Haze with Natural Metal Flange HZW Haze with White Flange MPW Matte Powder White WW White with White Flange	(blank) 120V Triac / ELV EM Remote Emergency (requires Nora EM housing)
NLCBC-4 4" / 900lm / 12W NLCBC-6 6" / 1000lm / 14W		69 Adjustable Reflector	30X 3000K 35X 3500K	HZW Haze with White Flange WW White with White Flange

Example: **NLCBC-46935XWW** - 4" Cobalt Adjustable Retrofit, 3500K, White Reflector with White Flange

Cobalt Adjustable LED luminaires are cULus classified for use in existing IC or non-IC housings manufactured by Nora and others. The patent pending design rotates and adjusts while never exposing an opening or breaking the ceiling plane. The units provide 900 or 1000 Lumen output and rendering 90+ CRI. Cobalt LEDs integrate the latest from the Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption. Excellent for wall washing, accenting and slope ceiling applications.

ELECTRICAL:

- Voltage:** 120V or 120-277V
- Lumens / Wattage:** 900lm / 12W (4") 1000lm / 14W (5" and 6")
- Color Rendering Index:** 90+ CRI
- Operating Temperature:** 0°C-25°C
- Dimming:** Triac, ELV or 0-10V

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.

INSTALLATION: Friction Blades (4", 5") or Torsion Springs (6").

CONSTRUCTION: Aluminum spun reflector with deep set diffused lens.

ADJUSTABILITY: 358° rotate and 30° tilt.

OPTICS: Spot (included), Medium (included) and Flood optic (installed). TIR optics are available - see page 224.

LENS: Frosted (installed) and semi-frosted (included).

LISTING & WARRANTY:

- cULus Classified for Damp Location
- UL Classified for use with most manufacturers IC and Non-IC housings
- ASTM E283 for Air-Tight (with IC Housing)
- RoHs compliant
- Certified to the high efficacy requirements of California Title 24 JA8-2019
- ENERGY STAR certified
- 5-Year Limited Warranty



COMPATIBLE HOUSINGS:

4" HOUSINGS

- NHIC-4LMRAT
- NHIC-4LMRAT/EM
- NHIC-4LMRAT/4W
- NHIC-4LMRAT/6WEM
- NHICCB-4LMRAT
- NFBIC-4LMRATA
- NFBIC-4LMRAT/4W
- NSIC-401QAT
- NFBIC-4INCATA
- NS-401QAT
- NHIC-4G24AT
- NHRIC-4LMRAT
- NSRIC-404QAT
- NSR-404QAT
- NHRIC-4G24AT

5" HOUSINGS

- NHIC-5LMRAT
- NHIC-5LMRAT/EM
- NFBIC-5LMRATA
- NHIC-527LMRAT
- NHIC-501QAT
- NFBIC-5INCATA
- NHIC-527QAT
- NH-501Q
- NHIC-5G24ATFL

- NHRIC-5LMRAT
- NHRIC-527LMRAT
- NHRIC-504QAT
- NHRIC-527QAT
- NHR-504Q

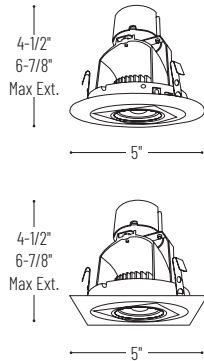
6" HOUSINGS

- NHIC-6LMRAT
- NHIC-6LMRAT/EM
- NHIC-6LMRAT/4W
- NHIC-6LMRAT/6WEM
- NHICCB-6LMRAT
- NFBIC-6LMRATA
- NFBIC-6LMRATA/4W
- NHIC-27LMRAT
- NHIC-17QAT
- NFBIC-6INCATA
- NHIC-27QAT
- NH-26Q
- NHIC-6G24ATFL
- NHRIC-6LMRAT
- NHRIC-27LMRAT
- NHRIC-17QAT
- NHRIC-27QAT
- NHR-26Q



RETROFIT COBALT ADJUSTABLE SERIES

800LM 4" RETROFIT



NLCBC-470
4" Round Adjustable Elbow
BB, BZ, MPW, N, W



NLCBC-4870
4" Square Adjustable Elbow
BB, BZ, MPW, N, W

COBALT ADJUSTABLE ELBOW SERIES 4" RETROFIT

APERTURE / LUMENS / WATTAGE	TRIM TYPE	COLOR TEMP	FINISH	DRIVER/DIMMING
NLCBC-4 4" / 800lm / 13W units are cULus classified for use with Nora dedicated housings and housings by others. Retrofitting a medium base can requires removal of socket.	70 Round Adjustable Elbow 870 Square Adjustable Elbow	27X 2700K	B/A Matte Black	(blank) 120V Triac / ELV
		30X 3000K	BZ/A Bronze	EM Remote Emergency (requires Nora EM housing)
		35X 3500K	MPW/A Matte Powder White	
		40X 4000K	N/A Natural Metal	
			W/A White	

Example: **NLCBC-47030XB/A** - 4" Cobalt Round Adjustable Elbow Retrofit, 800lm / 13W, 3000K, Black Finish

Cobalt LED Adjustable Elbow luminaires are cULus classified for use in existing IC or non-IC housings manufactured by Nora and others. The luminaires deliver over 800 lumens at 90+ CRI. Cobalt Elbow Series intergrates a Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption. The adjustable elbow allows for greater aiming flexibility with 358° rotate and 75° tilt adjustment.

ELECTRICAL:

Voltage: 120VAC

Lumens: 800lm / 13W

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

Color Rendering Index: 90+ CRI

Operating Temperature: 0°C-25°C

Dimming: Triac / ELV

INSTALLATION: Friction Blades.

CONSTRUCTION: Cast aluminum.

ADJUSTABILITY: 358° rotate and 75° tilt.

OPTICS: Spot (included) and Narrow Flood optic (installed) are changeable from the front of the fixture

LISTING & WARRANTY:

- cULus Classified for Damp Location when used with compatible frame-in
- Certified to the high efficacy requirements of California Title 24 JA8-2019
- 5-Year Limited Warranty



COMPATIBLE HOUSINGS:

New Construction

NHIC-4LMRAT 4" ICAT Dedicated LED

NHIC-4LMRAT/277 4" ICAT Dedicated LED, 277V

NHIC-4LMRAT/EM 4" ICAT Dedicated LED for EM

NFBIC-4LMRATA 4" ICAT Dedicated LED Fire Box

NSIC-401QAT 4" ICAT Line Voltage

NS-401QAT 4" AT Line Voltage

NHIC-4G24AT 4" ICAT GU24

Remodel

NHRIC-4LMRAT 4" Remodel ICAT Dedicated LED

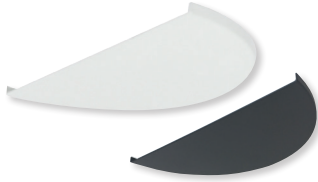
NSRIC-404QAT 4" Remodel ICAT Line Voltage

NSR-404QAT 4" Remodel AT Line Voltage

NHRIC-4G24AT 4" Remodel ICAT GU24

COBALT ACCESSORIES

COMPATIBLE WITH CLICK, HIGH LUMEN AND ADJUSTABLE SERIES



Round Eyelid

- NLCBC-4EYELIDB** Black Eyelid for 4"
- NLCBC-4EYELIDBZ** Bronze Eyelid for 4"
- NLCBC-4EYELIDMPW** Matte Powder White Eyelid
- NLCBC-4EYELIDW** White Eyelid for 4"
- NLCBC-5EYELIDB** Black Eyelid for 5"
- NLCBC-5EYELIDBZ** Bronze Eyelid for 5"
- NLCBC-5EYELIDMPW** Matte Powder White Eyelid
- NLCBC-5EYELIDW** White Eyelid for 5"
- NLCBC-6EYELIDB** Black Eyelid for 6"
- NLCBC-6EYELIDBZ** Bronze Eyelid for 6"
- NLCBC-6EYELIDMPW** Matte Powder White Eyelid
- NLCBC-6EYELIDW** White Eyelid for 6"

Round eyelid used to convert round reflector or baffle to half moon wall wash trim.

Compatible Series: Click (NLCBC2) and High Lumen (NLCB2)



Round Oversize Ring

- NLCBC-4OR-B** Black Ring for 4"
- NLCBC-4OR-BZ** Bronze Ring for 4"
- NLCBC-4OR-MPW** Matte Powder White Ring for 4"
- NLCBC-4OR-W** White Ring for 4"
- NLCBC-5OR-B** Black Ring for 5"
- NLCBC-5OR-BZ** Bronze Ring for 5"
- NLCBC-5OR-MPW** Matte Powder White Ring for 5"
- NLCBC-5OR-W** White Ring for 5"
- NLCBC-6OR-B** Black Ring for 6"
- NLCBC-6OR-BZ** Bronze Ring for 6"
- NLCBC-6OR-MPW** Matte Powder White Ring for 6"
- NLCBC-6OR-W** White Ring for 6"

Round oversize ring used to cover ceiling large cut-outs.

Compatible Series: Click (NLCBC2) and High Lumen (NLCB2)



Frosted Decorative Ring

- NLCBC2-4DRFA** Frosted Amber Ring for 4"
- NLCBC2-4DRFB** Frosted Blue Ring for 4"
- NLCBC2-4DRFR** Frosted Red Ring for 4"
- NLCBC2-4DRFW** Frosted White Ring for 4"
- NLCBC2-5DRFA** Frosted Amber Ring for 5"
- NLCBC2-5DRFB** Frosted Blue Ring for 5"
- NLCBC2-5DRFR** Frosted Red Ring for 5"
- NLCBC2-5DRFW** Frosted White Ring for 5"
- NLCBC2-6DRFA** Frosted Amber Ring for 6"
- NLCBC2-6DRFB** Frosted Blue Ring for 6"
- NLCBC2-6DRFR** Frosted Red Ring for 6"
- NLCBC2-6DRFW** Frosted White Ring for 6"

Frosted round decorative ring ships with white reflector.

Compatible Series: Click (NLCBC2)



Frosted Decorative Dome

- NLCBC2-6DDFW** Frosted White Dome for 6"

Frosted round decorative dome ships with white reflector.

Compatible Series: 6" Click (NLCBC2-6)



Premium TIR Optic for Cobalt Adjustable

- NLCBC-469TIR25** 25° Optic for 4" Cobalt Adjustable (NLCBC-469)
- NLCBC-469TIR45** 45° Optic for 4" Cobalt Adjustable (NLCBC-469)
- NLCBC-569TIR15** 15° Optic for 5" Cobalt Adjustable (NLCBC-569)
- NLCBC-569TIR45** 45° Optic for 5" Cobalt Adjustable (NLCBC-569)
- NLCBC-669TIR15** 15° Optic for 6" Cobalt Adjustable (NLCBC-669)
- NLCBC-669TIR45** 45° Optic for 6" Cobalt Adjustable (NLCBC-669)

Must specify ring finish: **B:** Black, **BZ:** Bronze, **HZ:** Haze, **MPW:** Matte Powder White or **W:** White
Compatible Series: Adjustable





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