

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 allow aiming flexibility. Cobalt Shallow features an IC Air-Tight housing with a depth of just 2-5/8".

CONSISTENCY

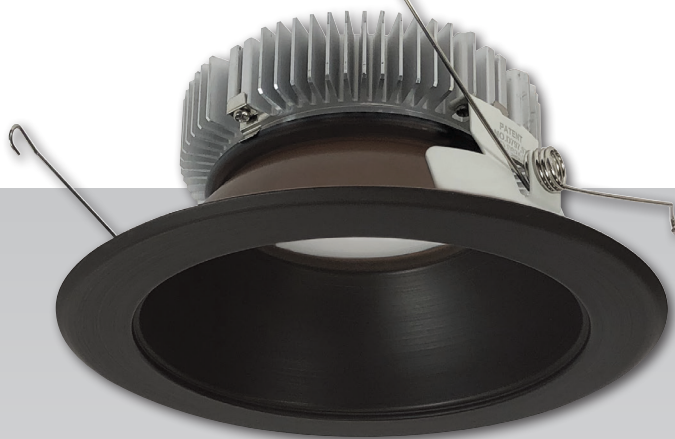
Cobalt Series features color consistency across the line. Whether the application is high-ceiling or wall wash, 4", 5" or 6", square or round aperture, all luminaires have consistent color. Cobalt uses the latest COB technology for long lasting color consistency to meet design specifications for any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

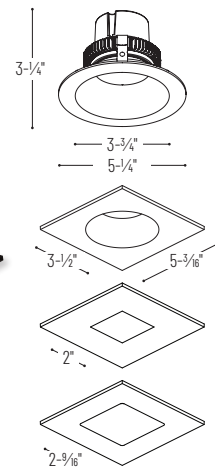
FAMILY	COBALT CLICK	COBALT HIGH LUMEN	COBALT SHALLOW	COBALT ADJUSTABLE	COBALT ELBOW
SERIES	NLCBC2	NLCB2	NLCBS	NLCBC-x69	NLCBC-470
APPLICATION	Residential or Light Commercial	High Ceilings or Commercial	Shallow Plenum or Multi-Family	Sloped Ceiling or Wall Wash	Wall Wash or Picture / Art
FIELD CHANGEABLE TRIM	Yes	Yes	Yes	No	No
LUMENS / WATTAGE	750lm / 10W, 1000lm / 12W (Dedicated), 1000lm / 13.5W (Selectable)	1500lm / 22W or 2000lm / 28W-30W	850lm / 13.5W or 1250lm / 16.5W	1000lm / 12W or 1200lm / 14W	800lm / 12W
REFLECTOR STYLE	Reflector, Baffle or Square	Reflector, Baffle or Square	Reflector, Baffle or Square	Adjustable	Adjustable Elbow
EYELID / OVERSIZE RING OPTION	Both	Oversize Ring	No	No	No
APERTURES	4", 5" and 6"	6"	4"	4", 5" and 6"	4"
CCT / CRI	Dedicated CCT, Selectable CCT or Comfort Dim (3000K-2000K)	Dedicated CCT or Comfort Dim (3000K-2000K)	Dedicated CCT (2700K, 3000K, 3500K or 4000K)	Dedicated CCT (2700K, 3000K, 3500K or 4000K)	Dedicated CCT (2700K, 3000K, 3500K or 4000K)
LUMENS PER WATT	81-90	66-71	65-80	83-85	62
RETROFIT AVAILABLE	Yes	No	No	Yes	Yes
DEDICATED HOUSING	No	Yes (IC Air-Tight & Non-IC Air-Tight)	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 CAPABLE	Yes	Yes	No	Yes	Yes
LIMITED WARRANTY	5 Year	5 Year	5 Year	5 Year	5 Year

COBALT CLICK SERIES RETROFIT

4" RETROFIT 750LM TO 1000LM



Each Cobalt retrofit includes a medium base socket for easy retrofitting



NLCBC2-451
4" Round Reflector
BB, BW, BZBZ, DW, HZMPW,
HZW, MPW, NN, WW



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



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



NLCBC2-455
4" Square Pinhole
MPW, WW



NLCBC2-456
4" Square w/Square Aperture
BB, BW, BZBZ, HZW,
MPW, NN, PW, WW

4" COBALT CLICK LED RETROFIT DOWNLIGHTS

Trim Type	Color Temperature	Finish	Lumens	Dimming + Emergency
NLCBC2-451 Round Reflector	27 2700K	BB Black / Black	/A 750lm	(blank) 120V Phase (Triac / ELV)
NLCBC2-452 Round Baffle	30 3000K	BW Black / White	/IO 1000lm	LE4 120-277V 0-10V or Phase
NLCBC2-453 Square / Round ¹	35 3500K	BZBZ Bronze / Bronze		EM Remote Emergency (requires Nora EM housing)
NLCBC2-455 Square Pinhole ¹	40 4000K	DW Diffused Clear / White		LE4EM LE4 w/ Remote Emergency (requires Nora 6WEM housing)
NLCBC2-456 Square / Square ¹	CD Comfort Dim ² TW Selectable CCT ³ (27K/30K/35K/40K/50K)	HZMPW Haze / Matte Powder White HZW Haze / White MPW Matte Powder White NN Natural Metal PW Pewter / White (456 only) WW White / White		

Notes:
¹ Not available with Selectable CCT
² Available in 900lm & 120V only
³ Available in 1000lm & 120V only. Not compatible with EM

Example: **NLCBC2-451TWPW/IO** = 4" Cobalt Click Round Retrofit Reflector, Selectable CCT, Matte Powder White Finish, 1000lm / 13.5W, 120V input; Phase Dimming

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 Signify LEDs, giving bright spectacular light output and low power consumption.

ELECTRICAL:

Voltage: 120V or 120V-277V

Lumens / Wattage: See chart below

LED Module	Lumens / Wattage	CCT
Dedicated CCT	750lm / 10W or 1000lm / 12W	27K, 30K, 35K, 40K
Selectable CCT	1000lm / 13.5W	27K, 30K, 35K, 40K, 50K
Comfort Dim	900lm / 12W	30K to 20K

Color Temperature: Dedicated, Selectable or Comfort Dim

Color Rendering Index: 90+ CRI

Operating Temperature: 0°C to 25°C

Dimming: Triac, ELV or 0-10V

COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 3000K, to a romantic and comfortable 2000K on a gradual, even curve. Available in 900lm 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.

LISTING & WARRANTY:

- cULus Classified for Wet Locations
- 5-Year Limited Warranty
- Certified to the high efficacy requirements of California Title 24 JA8-2022

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-4010AT 4" ICAT Line Voltage

NFBIC-4INCATA 4" ICAT Line Voltage Fire Box

NS-4010AT 4" AT Line Voltage

NHIC-4G24AT 4" ICAT GU24

Remodel

NHRIC-4LMRAT 4" Remodel ICAT Dedicated LED

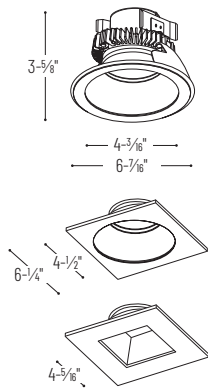
NSRIC-4040AT 4" Remodel ICAT Line Voltage

NSR-4040AT 4" Remodel AT Line Voltage





Each Cobalt retrofit includes a medium base socket for easy retrofitting



RETROFIT COBALT CLICK SERIES

750LM TO 1000LM 5" RETROFIT



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



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



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



NLCBC2-556
5" Square w/ Square Aperture
BB, BZBZ, HZW, MPW,
NN, PW, WW

5" COBALT CLICK LED RETROFIT DOWNLIGHTS

Trim Type	Color Temperature	Finish	Lumens	Dimming + Emergency
NLCBC2-551 Round Reflector	27 2700K	BB Black / Black	/A 750lm	(blank) 120V Phase (Triac / ELV)
NLCBC2-552 Round Baffle	30 3000K	BW Black / White (556 only)	/10 1000lm	LE4 120-277V 0-10V or Phase
NLCBC2-553 Square / Round	35 3500K	BZBZ Bronze / Bronze		EM Remote Emergency
NLCBC2-556 Square / Square	40 4000K	COCO Copper / Copper (551 only)		(requires Nora EM housing)
	CD Comfort Dim ¹	DW Diffused Clear / White		LE4EM LE4 w/ Remote Emergency
	TW Selectable CCT ² (27K/30K/35K/40K/50K)	HZW Haze / White		(requires Nora 6WEM housing)
Notes:		MPW Matte Powder White		
¹ Available in 900lm & 120V only		NN Natural Metal		
² Available in 1000lm & 120V only. Not compatible with EM		PW Pewter / White (556 only)		
		WW White / White		
Example: NLCBC2-552TWBB/10 = 5" Cobalt Click Round Retrofit Baffle, Selectable CCT, Black Finish, 1000lm / 13.5W, 120V input; Phase Dimming				

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 Signify LEDs, giving bright spectacular light output and low power consumption.

ELECTRICAL:

Voltage: 120V or 120V-277V

Lumens / Wattage: See chart below

LED Module	Lumens / Wattage	CCT
Dedicated CCT	750lm / 10W or 1000lm / 12W	27K, 30K, 35K, 40K
Selectable CCT	1000lm / 13.5W	27K, 30K, 35K, 40K, 50K
Comfort Dim	900lm / 12W	30K to 20K

Color Temperature: Dedicated, Selectable or Comfort Dim

Color Rendering Index: 90+ CRI

Operating Temperature: 0°C to 25°C

Dimming: Triac, ELV or 0-10V

COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 3000K, to a romantic and comfortable 2000K on a gradual, even curve. Available in 900lm 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 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-5OR(finish) - Round oversize ring used to cover ceiling cut-outs up to 7-1/8". Available in black, bronze, matte powder white or white.

LISTING & WARRANTY:

- cULus Classified for Wet Location
- 5-Year Limited Warranty
- Certified to the high efficacy requirements of California Title 24 JA8-2022



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*

NFBIC-5LMRATA 5" ICAT Dedicated LED Fire Box

NHIC-527LMRAT 5" Shallow ICAT Dedicated LED

NHIC-527LMRAT/EM 5" Shallow ICAT Ded. LED for EM

NHIC-527LMRAT/4W 5" Shallow ICAT Ded. LED for LE4

NHIC-527LMRAT/6WEM 5" Shallow ICAT LED for LE4EM

NHIC-527LMRAT/277 5" Shallow ICAT Ded. LED, 277V*

NHIC-501QAT 5" ICAT Line Voltage

NFBIC-5INCATA 5" ICAT Line Voltage Fire Box

NHIC-527QAT 5" Shallow ICAT Line Voltage

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

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

COBALT CLICK SERIES RETROFIT

6" RETROFIT 750LM OR 1000LM



Each Cobalt retrofit includes a medium base socket for easy retrofitting



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



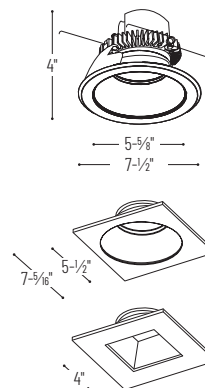
NLCBC2-652
6" Round Baffle
BB, BW, BZBZ,
MPW, NN, WW



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



NLCBC2-656
6" Square w/ Square Aperture
BB, BW, BZBZ, HZW, MPW,
NN, PW, WW



6" COBALT CLICK LED RETROFIT DOWNLIGHTS

Trim Type	Color Temperature	Finish	Lumens	Dimming + Emergency
NLCBC2-651 Round Reflector	27 2700K	BB Black / Black	/A 750lm	(blank) 120V Phase (Triac / ELV)
NLCBC2-652 Round Baffle	30 3000K	BW Black / White	/10 1000lm	LE4 120-277V 0-10V or Phase
NLCBC2-653 Square / Round	35 3500K	BZBZ Bronze / Bronze		EM Remote Emergency (requires Nora EM housing)
NLCBC2-656 Square / Square	40 4000K	COCO Copper / Copper (651 only)		LE4EM LE4 w/ Remote Emergency (requires Nora 6WEM housing)
	CD Comfort Dim ¹	DW Diffused Clear / White		
	TW Selectable CCT ² (27K/30K/35K/40K/50K)	HZMPW Haze / Matte Powder White		
		HZW Haze / White		
		MPW Matte Powder White		
		NN Natural Metal		
		PW Pewter / White (656 only)		
		WW White / White		

Notes:

¹ Available in 900lm & 120V only

² Available in 1000lm & 120V only. Not compatible with EM

Example: **NLCBC2-656TWWW/10** = 6" Cobalt Click Square Retrofit Reflector with Square Aperture, Selectable CCT, White Finish, 1000lm / 13.5W, 120V input; Phase Dimming

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 Signify LEDs, giving bright spectacular light output and low power consumption.

ELECTRICAL:

Voltage: 120V or 120V-277V

Lumens / Wattage: See chart below

LED Module	Lumens / Wattage	CCT
Dedicated CCT	750lm / 10W or 1000lm / 12W	27K, 30K, 35K, 40K
Selectable CCT	1000lm / 13.5W	27K, 30K, 35K, 40K, 50K
Comfort Dim	900lm / 12W	30K to 20K

Color Temperature: Dedicated, Selectable or Comfort Dim

Color Rendering Index: 90+ CRI

Operating Temperature: 0°C to 25°C

Dimming: Triac, ELV or 0-10V

COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 3000K, to a romantic and comfortable 2000K on a gradual, even curve. Available in 900lm 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-6OR(finish) - Round oversize ring used to cover ceiling cut-outs up to 8-1/4". Available in black, bronze, matte powder white or white.

LISTING & WARRANTY:

- cULus Classified for Wet Location
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- 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*

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-27LMRAT/EM 6" Shallow ICAT Dedicated LED for EM

NHIC-27LMRAT/4W 6" Shallow ICAT Ded. LED for LE4

NHIC-27LMRAT/6WEM 6" Shallow ICAT LED for LE4EM

NHIC-27LMRAT/277 6" Shallow ICAT Ded. LED, 277V*

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

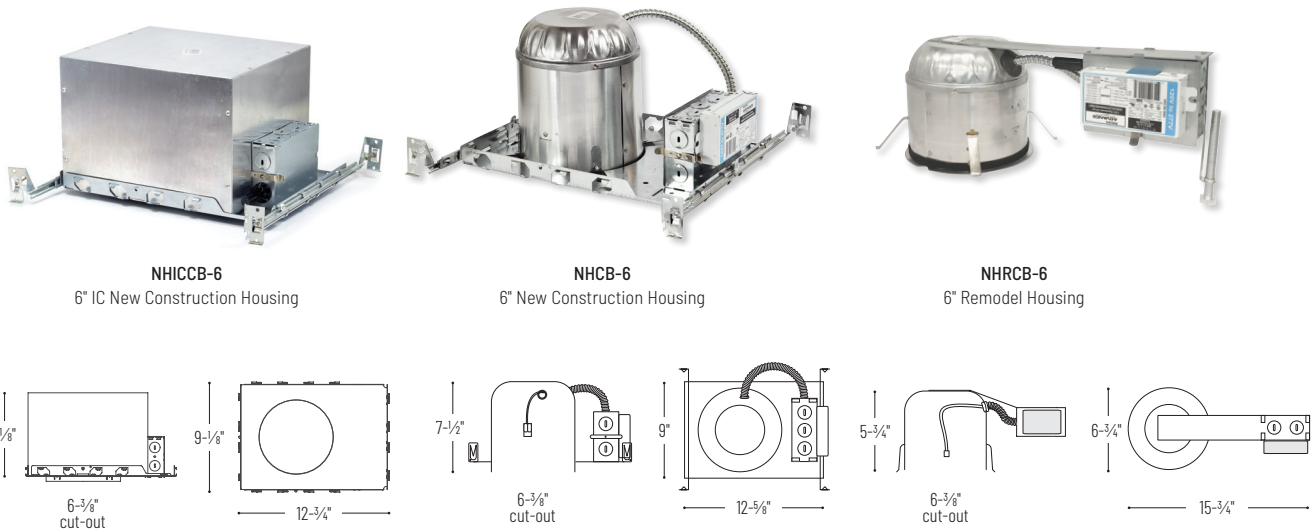
NHR-26Q 6" Remodel Line Voltage

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



COBALT HIGH LUMEN SERIES COMMERCIAL AND RESIDENTIAL

6" HOUSING 1500LM OR 2000LM



6" COBALT HIGH LUMEN HOUSINGS

Housing Type	Lumens / Wattage	Input Voltage / Dimming	Optional Emergency
NHICCB-6 IC Air-Tight New Construction	15 1500lm / 22W 20 2000lm / 28W	LE4 120/277V input; 0-10V & Phase Dimming	/PEM Pre-Wired for Emergency Battery (battery ordered 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: **NHICCB-620LE4** = 6" Cobalt High Lumen IC Air-Tight New Construction Housing, 2000lm / 28W, 120/277V input; 0-10V & Phase 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: Dedicated or Comfort Dim

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

COMFORT DIM:

Comfort Dim color tunes the temperature from a bright 3000K, to a romantic and comfortable 2000K on a gradual, even curve.

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 (NEPK-07LEDUNV).

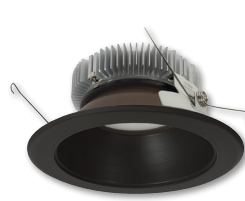
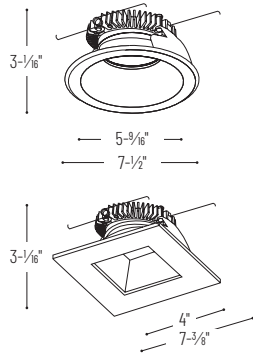
LISTING & WARRANTY:

- cULus Listed for Wet Location
- Meets or exceeds ASTM-283 Air-Tight Requirements (IC housing only)
- Certified to the high efficacy requirements of California Title 24 JA8-2022 (IC housing only)
- 5 Year Limited Warranty



COMMERCIAL AND RESIDENTIAL COBALT HIGH LUMEN SERIES

1500LM OR 2000LM 6" REFLECTORS



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



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



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



NLCB2-656
6" Square w/ Square Aperture
BB, BW, BZBZ, HZW, MPW,
NN, PW, WW

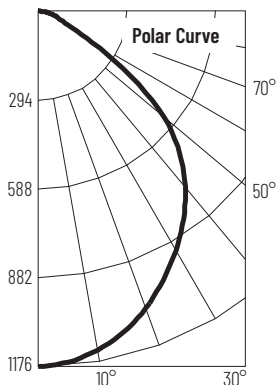
6" COBALT HIGH LUMEN LED DOWNLIGHTS

Trim Type	Lumens	Color Temperature	Finish
NLCB2-651 Round Reflector	15 1500lm	27 2700K	BB Black Reflector / Black Flange
NLCB2-652 Round Baffle	20 2000lm	30 3000K	BW Black Reflector / White Flange
NLCB2-653 Square / Round		35 3500K	BZBZ Bronze Reflector / Bronze Flange
NLCB2-656 Square / Square		40 4000K	COCO Copper Reflector / Copper Flange (651 only)
		CD Comfort Dim (3000K-2000K)	DW Diffused Clear Reflector / White Flange
			HZMPW Haze Reflector / Matte Powder White Flange
			HZW Haze Reflector / White Flange
			MPW Matte Powder White Reflector / Matte Powder White Flange
			NN Natural Metal Reflector / Natural Metal Flange
			PW Pewter Reflector / White Flange (656 only)
			WW White Reflector / White Flange

Example: **NLCB2-6512030HZMPW** = 6" Cobalt High Lumen Round Reflector, 2000lm, 3000K, Haze Reflector / Matte Powder 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-60R-B
NLCBC-60R-BZ
NLCBC-60R-MPW
NLCBC-60R-W

Round Oversize Ring, Black
Round Oversize Ring, Bronze
Round Oversize Ring,
Matte Powder White
Round Oversize Ring, White

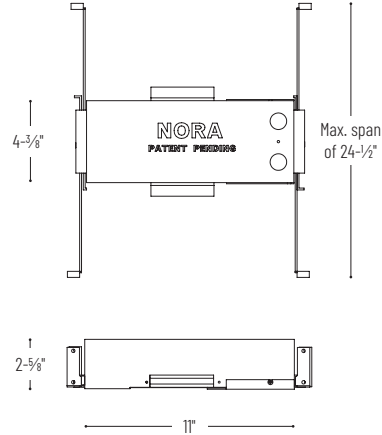
COBALT SERIES COMMERCIAL AND RESIDENTIAL

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



NHSIC-4

4" Cobalt Shallow IC Air-Tight New Construction Housing



4" COBALT SHALLOW HOUSING

Housing Type	Lumens / Wattage	Input Voltage / Dimming
NHSIC-4 4" Shallow IC Air-Tight New Construction	85 850lm / 13.5W	LE3LT 120V input; Phase (Triac or ELV) Dimming
	12 1250lm / 16.5W	LE4LT 120-277V input; 0-10V & Phase Dimming
Example: NHSIC-412LE4LT = 4" Cobalt Shallow IC Air-Tight New Construction Housing, 1250lm / 16.5W, 120/277V input; 0-10V & Phase 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

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
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- 5 Year Limited Warranty



COMMERCIAL AND RESIDENTIAL COBALT SERIES

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



4" COBALT SHALLOW LED DOWNLIGHTS

Trim Type	Lumens	Color Temperature	Finish
NLCBS-4W51 Round Reflector	85 850lm / 13.5W	27 2700K	BB Black Reflector / Black Flange
NLCBS-4W52 Round Baffle	12 1250lm / 16.5W	30 3000K	BW Black Reflector / White Flange
NLCBS-453 Square / Round		35 3500K	BZBZ Bronze Reflector / Bronze Flange
NLCBS-456 Square / Square		40 4000K	DMPW Diffused Clear Reflector / Matte Powder White Flange
			DW Diffused Clear Reflector / White Flange
			HMPW Haze Reflector / Matte Powder White Flange
			HZW Haze Reflector / White Flange
			MPW Matte Powder White Reflector / Matte Powder White Flange
			NN Natural Metal Reflector / Natural Metal Flange
			PW Pewter Reflector / White Flange
			WW White Reflector / White Flange

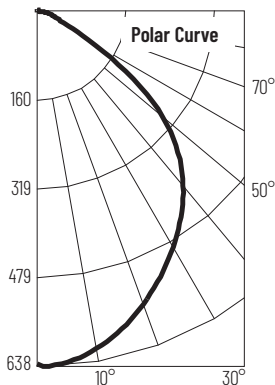
Example: **NLCBS-4W511230HMPW** = 4" Cobalt Shallow Round Reflector, 1250lm / 16.5W, 3000K, Haze Reflector / Matte Powder White Flange

PHOTOMETRICS

Test Number: NTR1177
Part Number: NLCBS-4W51240WW
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

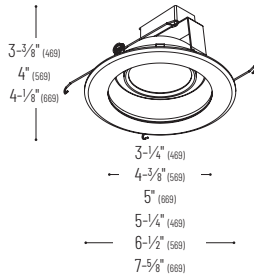
Zonal Lumen Summary

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**1000LM TO 1200LM **4", 5", 6" RETROFIT**

Each Cobalt retrofit includes a medium base socket for easy retrofitting



NLCBC-469
4\"/>



NLCBC-569
5\"/>



NLCBC-669
6\"/>

4", 5" & 6" COBALT ADJUSTABLE LED RETROFITS

Aperture / Lumens / Wattage	Color Temperature	Finish	Dimming + Emergency
NLCBC-469 4" / 1000lm / 12W NLCBC-569 5" / 1200lm / 14W NLCBC-669 6" / 1200lm / 14W	27X 2700K 30X 3000K 35X 3500K 40X 4000K	BB Black / Black BZBZ Bronze / Bronze HZN Haze / Natural Metal HZW Haze / White MPW Matte Powder White WW White / White	(blank) 120V Phase (Triac / ELV) EM Remote Emergency (requires Nora EM housing)
NLCBC-469 4" / 1000lm / 12W NLCBC-669 6" / 1200lm / 14W	30X 3000K 35X 3500K	HZW Haze / White WW White / White	LE4 120-277V input; 0-10V & Phase Dimming LE4EM LE4 w/ Remote Emergency (requires Nora 6WEM housing)

Example: **NLCBC-66930XMPW** = 6" Cobalt Adjustable Retrofit, 3000K, Matte Powder White Finish, 1200lm / 14W, 120V input; Phase Dimming

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. Luminaires deliver 900 or 1000 Lumen output in various color temperatures. Cobalt LEDs integrate the latest 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: 1000lm / 12W (4")
1200lm / 14W (5" and 6")

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

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-21ISM) 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 18.

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 JA8-2022
- 5-Year Limited Warranty

**COMPATIBLE HOUSINGS:****4" HOUSINGS**

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

5" HOUSINGS

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

NHIC-5LMRAT
NHIC-527LMRAT
NHIC-504QAT
NHIC-527QAT

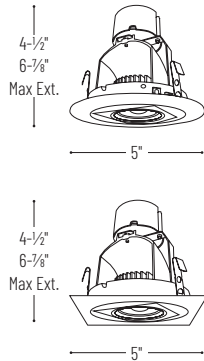
6" HOUSINGS

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
NHIC-6LMRAT
NHIC-27LMRAT
NHIC-17QAT
NHIC-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

4" COBALT ADJUSTABLE ELBOW LED RETROFIT

Trim Shape	Color Temperature	Finish	Dimming + Emergency
NLCBC-470 4" Round Elbow	27X 2700K	B/A Black	(blank) 120V Phase (Triac / ELV)
NLCBC-4870 4" Square Elbow	30X 3000K	BZ/A Bronze	EM Remote Emergency
	35X 3500K	MPW/A Natural Metal	(requires Nora EM housing)
	40X 4000K	N/A Matte Powder White	
		W/A White	

Example: **NLCBC-47030XMPW/A** = 4" Cobalt Adjustable Elbow Retrofit, 3000K, Matte Powder White Finish, 800lm / 12W, 120V input; Phase Dimming

Cobalt LED Adjustable Elbow luminaires are cULus classified for use in existing IC or non-IC housings manufactured by Nora and others. Luminaires deliver over 800 lumens at various color temperatures. Cobalt Elbow integrates the latest 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 / 12W

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 JA8-2022
- 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

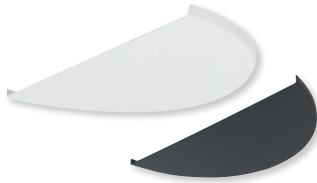
NHRIC-4LMRAT 4" Remodel ICAT Dedicated LED

NSRIC-404QAT 4" Remodel ICAT Line Voltage

NSR-404QAT 4" Remodel AT Line Voltage

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) only



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: Adjustable (NLCBC-x69), Click (NLCBC2) and High Lumen (NLCB2)



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-669TIR15	15° Optic for 6" Cobalt Adjustable (NLCBC-669)

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



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