

NLCBC2-45 Series

4" 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 4" 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 4" 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 4" housings.

Retrofit: Cobalt retrofit series includes medium base screw-socket adapter (NRA-211SM) for retrofitting into existing medium base downlight housings. GU24 socket adapter is available for use with GU24 housings, must specify [NRA-212SM](#).

ELECTRICAL

Input Voltage: 120V or 120V-277V, must specify

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

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

Color Rendering Index: 90+ CRI

Operating Temperature: 0°C to 25°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 in the "Compatibility" page under "Resources" tab

COMPATIBLE HOUSINGS

Cobalt retrofit reflectors are compatible with most 4" IC and Non-IC housings by Nora and others.

Fire Box

[NFBIC-4LMRATA*](#)

[NFBIC-4LMRATA/4W*](#)

[NFBIC-4INCATA](#)

ICAT Dedicated LED

ICAT Dedicated LED for LE4

ICAT Line Voltage

New Construction

[NHIC-4LMRAT*](#)

[NHIC-4LMRAT/4W*](#)

[NHIC-4LMRAT/EM*](#)

[NHIC-4LMRAT/6WEM*](#)

[NHIC-4LMRAT/277*](#)

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-4LMRAT*](#)

[NSIC-4010AT](#)

[NS-4010AT](#)

[NHIC-4G24AT](#)

Chicago Plenum Dedicated LED

ICAT Line Voltage

AT Line Voltage

ICAT GU24

Remodel

[NHRIC-4LMRAT*](#)

[NSRIC-4040AT](#)

[NSR-4040AT](#)

[NHRIC-4G24AT](#)

ICAT Dedicated LED

ICAT Line Voltage

AT Line Voltage

ICAT GU24

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

ACCESSORIES

NLCBC-4EYELID: Round eyelid used to convert round reflector or baffle to half moon wall wash trim.

NLCBC-4OR: Round oversize ring used to cover ceiling cut-outs up to 5-3/4".

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

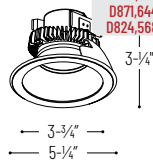


NLCBC2-451

Round Open Reflector

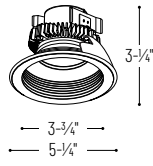


PATENT No.:
D797,977S
D871,644S
D824,568S



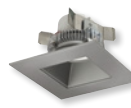
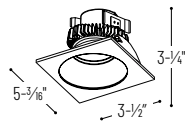
NLCBC2-452

Round Open Baffle



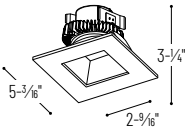
NLCBC2-453

Square Reflector w/ Round Aperture



NLCBC2-456

Square Reflector w/ Square Aperture



4" Cobalt Click LED Retrofit Reflectors

Reflector Type	Color Temperature	Finish (see chart below)	Lumens / Wattage	Dimming & Emergency
NLCBC2-451 = Round Reflector	27 = 2700K	BB = Black / Black	(blank) = 750lm / 12W	(blank) = 120V Triac/ELV
NLCBC2-452 = Round Baffle	30 = 3000K	BW = Black / White	/10 = 1000lm / 12W	EM = Remote Emergency (requires Nora EM housing)
NLCBC2-453 = Square Round	35 = 3500K	BZBZ = Bronze / Bronze		LE4 = 120V 0-10V/Triac/ELV 277V 0-10V (req. Nora 4W housing)
NLCBC2-455 = Square Pinhole	40 = 4000K	COCO = Copper / Copper		LE4EM = LE4 w/ Remote Emergency (requires Nora 6WEM housing)
NLCBC2-456 = Square Regress	CD = Comfort Dim [†]	DW = Diffused / White		
		HZW = Haze / White		
		MPW = Matte Powder White		
		NN = Natural Metal / Nat. Metal		
		PW = Pewter / White		
		WW = White / White		

[†] Available in 750lm & 120V only

Available Finishes

	BB	BW	BZBZ	COCO	DW	HZW	MPW	NN	PW	WW
451	•	•	•	•	•	•	•	•	•	•
452	•	•	•	•	•	•	•	•	•	•
453	•	•	•	•	•	•	•	•	•	•
455	•	•	•	•	•	•	•	•	•	•
456	•	•	•	•	•	•	•	•	•	•

Optional Accessories

Description
NLCBC-4EYELIDB = 4" Round Eyelid, Black
NLCBC-4EYELIDBZ = 4" Round Eyelid, Bronze
NLCBC-4EYELIDMPW = 4" Round Eyelid, Matte Powder White
NLCBC-4EYELIDW = 4" Round Eyelid, White
NLCBC-4OR-B = 4" Round Oversize Ring, Black
NLCBC-4OR-BZ = 4" Round Oversize Ring, Bronze
NLCBC-4OR-MPW = 4" Round Oversize Ring, Matte Powder White
NLCBC-4OR-W = 4" Round Oversize Ring, White
NRA-211SM = Medium base screw-in socket (included)
NRA-212SM = Socket adapter for use with GU24 housings

Example: **NLCBC2-45130MPW/10** = 4" Cobalt Click LED Retrofit Reflector, 1000lm / 12W LED, 3000K, Matte Powder White Finish

PHOTOMETRICS

4" Cobalt Click Retrofit Series
750 lumens

Type

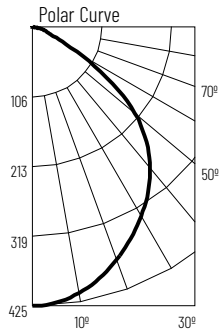
Project

Catalog No.

Notes

Test Information

Test Number: 795866
Part Number: NLCBC2-45130WWLE4
Lumens: 910lm
Wattage: 12.2W
Efficacy: 75lpw
CCT / CRI: 3000K / 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
4'	26.6fc	9'-4"
6'	11.8fc	13'-11"
8'	6.6fc	18'-7"
10'	4.3fc	23'-2"
12'	3fc	27'-10"

Zonal Lumen Summary

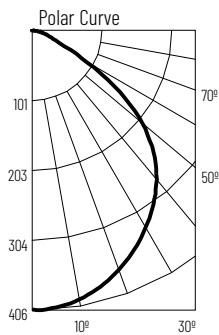
Zone	Lumens	% Luminaire
0-30	317	34.8
0-40	509	55.9
0-60	832	91.4
0-90	907	99.7
90-180	3	0.3
0-180	910	100

Candela Table

Vertical Angles	Candela
0	425
5	422
15	399
25	357
35	308
45	247

Test Information

Test Number: 795866
Part Number: NLCBC2-45230WWLE4
Lumens: 908lm
Wattage: 12.2W
Efficacy: 75lpw
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'	25.3fc	9'-10"
6'	11.3fc	14'-7"
8'	6.3fc	19'-6"
10'	4.1fc	24'-5"
12'	2.8fc	29'-4"

Zonal Lumen Summary

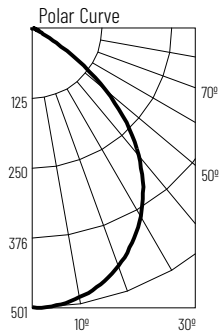
Zone	Lumens	% Luminaire
0-30	308	33.9
0-40	500	55.1
0-60	828	91.2
0-90	905	99.7
90-180	3	0.3
0-180	908	100

Candela Table

Vertical Angles	Candela
0	405
5	403
15	384
25	351
35	307
45	249

Test Information

Test Number: 795866
Part Number: NLCBC2-45330HZWLE4
Lumens: 892lm
Wattage: 12.2W
Efficacy: 73lpw
CCT / CRI: 3000K / 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
4'	31.2fc	7'-8"
6'	13.9fc	11'-7"
8'	7.8fc	15'-5"
10'	5fc	19'-4"
12'	3.5fc	23'-1"

Zonal Lumen Summary

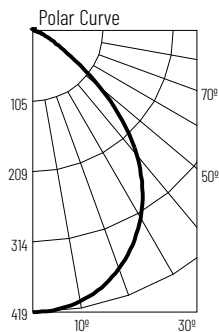
Zone	Lumens	% Luminaire
0-30	375	42.1
0-40	590	66.2
0-60	862	96.6
0-90	889	99.7
90-180	3	0.3
0-180	892	100

Candela Table

Vertical Angles	Candela
0	500
5	496
15	474
25	424
35	345
45	237

Test Information

Test Number: 795866
Part Number: NLCBC2-45630WWLE4
Lumens: 755lm
Wattage: 12.2W
Efficacy: 62lpw
CCT / CRI: 3000K / 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'	26.1fc	7'
6'	11.6fc	10'-5"
8'	6.5fc	13'-11"
10'	4.2fc	17'-5"
12'	2.9fc	20'-11"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	312	41.3
0-40	486	64.4
0-60	690	91.4
0-90	734	97.2
90-180	21	2.8
0-180	755	100

Candela Table

Vertical Angles	Candela
0	418
5	416
15	395
25	350
35	274
45	160

PHOTOMETRICS

4" Cobalt Click Retrofit Series
1000 lumens

Type _____

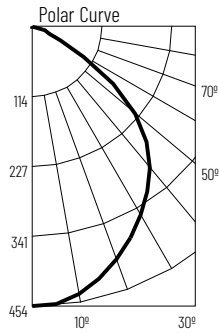
Project _____

Catalog No. _____

Notes _____

Test Information

Test Number: NTR1300
Part Number: NLCBC2-45127WW/10
Beam Spread: 98° Wide Flood
Lumens: 978lm
Wattage: 11.56W
Efficacy: 85lpw
CCT / CRI: 2700K / 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
4'	28.4fc	9'-4"
6'	12.6fc	13'-11"
8'	7.1fc	18'-6"
10'	4.5fc	23'-2"
12'	3.2fc	27'-10"

Zonal Lumen Summary

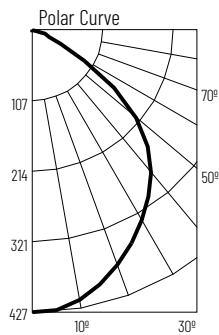
Zone	Lumens	% Luminaire
0-30	336	34.3
0-40	540	55.2
0-60	886	90.7
0-90	975	99.7
90-180	3	0.3
0-180	978	100

Candela Table

Vertical Angles	Candela
0	454
5	450
15	422
25	378
35	329
45	266

Test Information

Test Number: NTR1301
Part Number: NLCBC2-45130WW/10
Beam Spread: 99° Wide Flood
Lumens: 924lm
Wattage: 11.43W
Efficacy: 81lpw
CCT / CRI: 3000K / 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
4'	26.7fc	9'-4"
6'	11.9fc	14'
8'	6.7fc	18'-7"
10'	4.3fc	23'-4"
12'	3fc	28'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	317	34.3
0-40	509	55.1
0-60	837	90.6
0-90	920	99.5
90-180	5	0.5
0-180	924	100

Candela Table

Vertical Angles	Candela
0	427
5	424
15	398
25	356
35	307
45	248

NLCBC2-55 Series

5" Cobalt Click LED Retrofit Reflectors

Source: 12W LED

750lm or 1000lm

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

Cobalt retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. The 5" retrofit click luminaires produce up to 1000 lumen output at 90+ CRI. The Cobalt series intergrates 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 5" 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 5" 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

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 in the "Compatibility" page under "Resources" tab

COMPATIBLE HOUSINGS

Cobalt retrofit reflectors are compatible with most 5" IC and Non-IC housings by Nora and others.

Fire Box

[NFBIC-5LMRATA*](#)

ICAT Dedicated LED

[NFBIC-5LMRATA/4W*](#)

ICAT Dedicated LED for LE4

[NFBIC-SINCATA](#)

ICAT Line Voltage

New Construction

[NHIC-527LMRAT*](#)

Shallow ICAT Dedicated LED

[NHIC-5LMRAT*](#)

ICAT Dedicated LED

[NHIC-5LMRAT/4W*](#)

ICAT Dedicated LED for LE4

[NHIC-5LMRAT/EM*](#)

ICAT Dedicated LED for EM

[NHIC-5LMRAT/6WEM*](#)

ICAT Dedicated LED for EM+LE4

[NHIC-5LMRAT/277*](#)

ICAT Dedicated LED, 277V

(includes step-down transformer)

[NHIC-527OAT](#)

Shallow ICAT Line Voltage

[NHIC-501OAT](#)

ICAT Line Voltage

[NH-501Q](#)

Non-IC Line Voltage

[NHIC-5G24ATFL](#)

ICAT GU24

Remodel

[NHRIC-527LMRAT*](#)

Shallow ICAT Dedicated LED

[NHRIC-5LMRAT*](#)

ICAT Dedicated LED

[NHRIC-527OAT](#)

Shallow ICAT Line Voltage

[NHRIC-504OAT](#)

ICAT Line Voltage

[NHR-504Q](#)

Non-IC Line Voltage

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

ACCESSORIES

NLCBC-5EYELID: Round eyelid used to convert round reflector or baffle to half moon wall wash trim.

NLCBC-5OR: Round oversize ring used to cover ceiling cut-outs up to 7".

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



PRODUCT IMAGES & DIMENSIONS



5" Cobalt Click LED Retrofit Reflectors

Reflector Type	Color Temp.	Finish (see chart below)	Lumens / Wattage	Dimming & Emergency
NLCBC2-551 = Round Reflector	27 = 2700K	BB = Black / Black	(blank) = 750lm / 12W	(blank) = 120V Triac/ELV
NLCBC2-552 = Round Baffle	30 = 3000K	BW = Black / White	/10 = 1000lm / 12W	EM = Remote Emergency (requires Nora EM housing)
NLCBC2-553 = Square Round	35 = 3500K	BZBZ = Bronze / Bronze		LE4 = 120V 0-10V/Triac/ELV 277V 0-10V (req. Nora 4W housing)
NLCBC2-556 = Square Regress	40 = 4000K	COCO = Copper / Copper		LE4EM = LE4 w/ Remote Emergency (requires Nora 6WEM housing)
	CD = Comfort Dim ¹	DW = Diffused / White		
		HZW = Haze / White		
		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	HZW	MPW	NN	PW	WW
551	•									
552	•									
553			•							
556	•	•	•	•	•	•	•	•	•	•

Optional Accessories

Description
NLCBC-5EYELIDB = 5" Round Eyelid, Black
NLCBC-5EYELIDBZ = 5" Round Eyelid, Bronze
NLCBC-5EYELIDMPW = 5" Round Eyelid, Matte Powder White
NLCBC-5EYELIDW = 5" Round Eyelid, White
NLCBC-5OR-B = 5" Round Oversize Ring, Black
NLCBC-5OR-BZ = 5" Round Oversize Ring, Bronze
NLCBC-5OR-MPW = 5" Round Oversize Ring, Matte Powder White
NLCBC-5OR-W = 5" Round Oversize Ring, White
NRA-211SM = Medium base screw-in socket (included)
NRA-212SM = Socket adapter for use with GU24 housings

Example: **NLCBC2-55130MPW/10** = 5" Cobalt Click LED Retrofit Reflector, 1000lm / 12W LED, 3000K, Matte Powder White Finish

PHOTOMETRICS

5" Cobalt Click Retrofit Series
750 lumens

Type

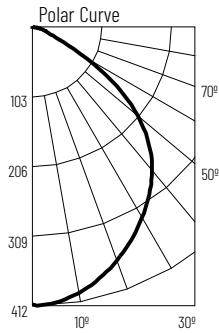
Project

Catalog No.

Notes

Test Information

Test Number: 795866
Part Number: NLCBC2-55130WWLE4
Lumens: 892lm
Wattage: 12.1W
Efficacy: 74lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 1.18
Spacing Criteria (90°-270): 1.2



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	25.7fc	9'-6"
6'	11.4fc	14'-2"
8'	6.4fc	18'-11"
10'	4.1fc	23'-8"
12'	2.9fc	28'-5"

Zonal Lumen Summary

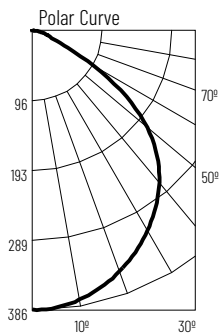
Zone	Lumens	% Luminaire
0-30	306	34.3
0-40	495	55.5
0-60	817	91.6
0-90	889	99.7
90-180	3	0.3
0-180	892	100

Candela Table

Vertical Angles	Candela
0	411
5	407
15	383
25	345
35	301
45	244

Test Information

Test Number: 795866
Part Number: NLCBC2-55230WWLE4
Lumens: 888lm
Wattage: 12.1W
Efficacy: 74lpw
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'	24fc	10'-1"
6'	10.7fc	15'-1"
8'	6fc	20'-1"
10'	3.9fc	25'-2"
12'	2.7fc	30'-2"

Zonal Lumen Summary

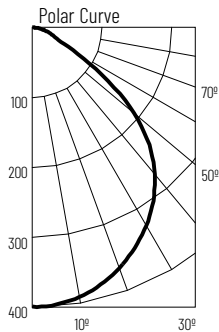
Zone	Lumens	% Luminaire
0-30	294	33.1
0-40	480	54
0-60	806	90.7
0-90	885	99.7
90-180	3	0.3
0-180	888	100

Candela Table

Vertical Angles	Candela
0	385
5	381
15	365
25	335
35	296
45	243

Test Information

Test Number: 795866
Part Number: NLCBC2-55330WWLE4
Lumens: 870lm
Wattage: 12.1W
Efficacy: 72lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 1.22
Spacing Criteria (90°-270): 1.24



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	24.9fc	9'-2"
6'	11.1fc	13'-10"
8'	6.2fc	18'-5"
10'	4fc	23'
12'	2.8fc	27'-8"

Zonal Lumen Summary

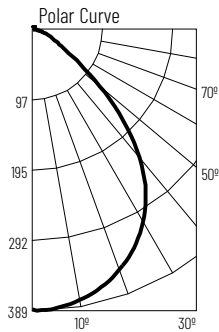
Zone	Lumens	% Luminaire
0-30	304	35
0-40	492	56.6
0-60	792	91.1
0-90	867	99.8
90-180	2	0.2
0-180	870	100

Candela Table

Vertical Angles	Candela
0	398
5	395
15	378
25	345
35	301
45	236

Test Information

Test Number: 795866
Part Number: NLCBC2-55630WWLE4
Lumens: 777lm
Wattage: 12.1W
Efficacy: 64lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 1.18
Spacing Criteria (90°-270): 1.2



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	24.2fc	7'-8"
6'	10.8fc	11'-6"
8'	6.1fc	15'-4"
10'	3.9fc	19'-2"
12'	2.7fc	23'

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	293	37.7
0-40	466	59.9
0-60	697	89.8
0-90	755	97.2
90-180	22	2.8
0-180	777	100

Candela Table

Vertical Angles	Candela
0	388
5	384
15	367
25	332
35	273
45	180

PHOTOMETRICS

5" Cobalt Click Retrofit Series
1000 lumens

Type _____

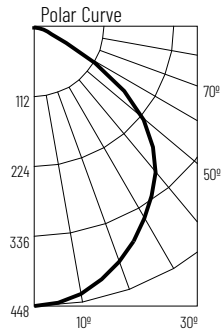
Project _____

Catalog No. _____

Notes _____

Test Information

Test Number: NTR1302
Part Number: NLCBC2-55127WW/10
Beam Spread: 101° Wide Flood
Lumens: 1008lm
Wattage: 11.44W
Efficacy: 88lpw
CCT / CRI: 2700K / 90 CRI
Spacing Criteria (0°-180): 1.2
Spacing Criteria (90°-270): 1.2



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	28fc	9'-8"
6'	12.4fc	14'-7"
8'	7fc	19'-6"
10'	4.5fc	24'-4"
12'	3.1fc	29'-2"

Zonal Lumen Summary

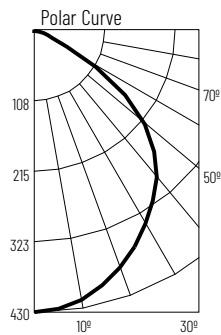
Zone	Lumens	% Luminaire
0-30	336	33.3
0-40	543	53.9
0-60	906	89.9
0-90	1002	99.4
90-180	6	0.6
0-180	1008	100

Candela Table

Vertical Angles	Candela
0	448
5	445
15	420
25	379
35	331
45	272

Test Information

Test Number: NTR1303
Part Number: NLCBC2-55130WW/10
Beam Spread: 101° Wide Flood
Lumens: 965lm
Wattage: 11.41W
Efficacy: 85lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 1.2
Spacing Criteria (90°-270): 1.2



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	26.9fc	9'-8"
6'	12fc	14'-7"
8'	6.7fc	19'-5"
10'	4.3fc	24'-4"
12'	3fc	29'-1"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	322	33.4
0-40	519	53.8
0-60	865	89.7
0-90	956	99.1
90-180	9	0.9
0-180	965	100

Candela Table

Vertical Angles	Candela
0	430
5	427
15	404
25	363
35	315
45	259

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 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*](#)

(includes step-down transformer)

[NHICCP-6LMRAT*](#)

[NHIC-27OAT](#)

[NHIC-17OAT](#)

[NH-26Q](#)

[NHIC-6G24ATFL](#)

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

Chicago Plenum Dedicated LED

Shallow ICAT Line Voltage

ICAT Line Voltage

Non-IC Line Voltage

ICAT GU24

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



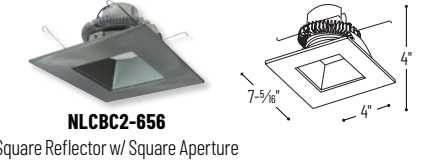
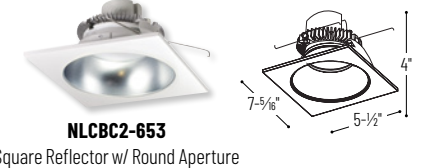
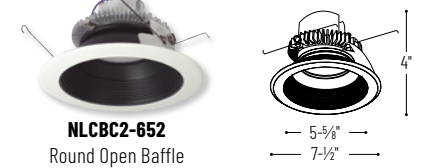
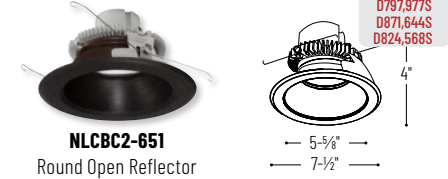
Type

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 ¹	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		

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-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

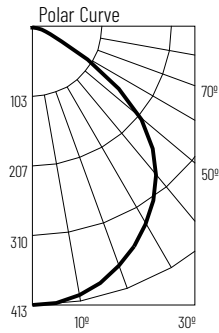
Project

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

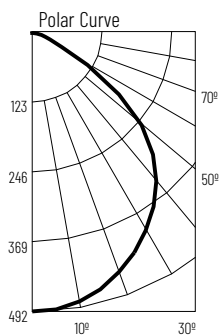
Zone	Lumens	% Luminaire
0-30	301	35.7
0-40	481	57
0-60	770	91.2
0-90	839	99.5
90-180	4	0.5
0-180	844	100

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

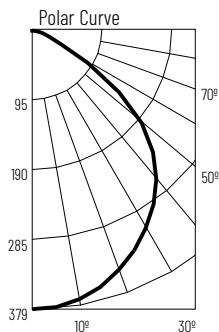
Zone	Lumens	% Luminaire
0-30	359	35.7
0-40	573	57
0-60	917	91.2
0-90	1001	99.5
90-180	5	0.5
0-180	1006	100

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

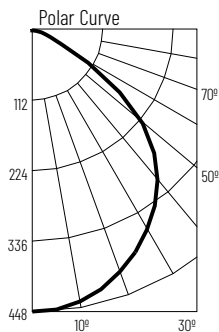
Zone	Lumens	% Luminaire
0-30	289	33.7
0-40	468	54.6
0-60	774	90.4
0-90	853	99.5
90-180	4	0.5
0-180	857	100

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