ENORA NSPEC[®]

NLCBC-45 Series

4" Cobalt Retrofit Reflectors

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 luminaires produces 1000 lumen output at 90+ CRI. The Cobalt series integrates a Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption. An obvious and smart choice for Green Energy efficient lighting in commercial and residential applications.

FEATURES

- 1000lm LED output
- · 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- CREE[®] COB LED
- · Integral dimmable driver
- 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: Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output. The deep trim places the LED optics deeper, increasing the visual comfort and reduces board images when off.

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: 1000Im

Wattage: 13W (120V) or 16W (LE4)

Color Temperature: 2700K, 3000K, 3500K or 4000K **CRI:** 90+CRI

Operating Temp.: 0°C to 45°C ambient temperature **Dimming:** Available in Triac/ELV/0-10V, must specify <u>Click Here</u> or check complete dimmer list at www. NoraLighting.com in the "Compatibility" page under "Resources" tab

COMPATIBLE HOUSINGS

COMINATIBLE HOUSING		
Cobalt retrofit reflectors are compatible with most 4" IC		
and Non-IC housings by Nora and others.		
Fire Box		
NFBIC-4LMRAT*	ICAT Dedicated LED	
NFBIC-4LMRAT/4W	ICAT Dedicated LED for LE4	
NFBIC-4INCAT	ICAT Line Voltage	
New Construction		
NHIC-4LMRAT*	ICAT Dedicated LED	
NHICCP-4LMRAT*	Chicago Plenum Dedicated LED	
(Note: NHICCP-4LMRAT	is not compatible with LE4)	

(Note: NHICCP-4LMRAT	is not compatible with LE4)
NHIC-4LMRAT/277*	ICAT Dedicated LED, 277V
(includes step-down trar	nsformer)
NHIC-4LMRAT/4W*	ICAT Dedicated LED for LE4
NHIC-4LMRAT/EM*	ICAT Dedicated LED for EM
NHIC-4LMRAT/6WEM*	ICAT Dedicated LED for EM+LE4
NSIC-401QAT	ICAT Line Voltage
NS-401QAT	AT Line Voltage
NHIC-4G24AT	ICAT GU24

<u>Remodel</u> NHRIC-4LMRAT* NSRIC-404QAT NSR-404QAT NHRIC-4G24AT

AT Line Voltage T ICAT GU24 ed LED housings are cULus listed f

ICAT Dedicated LED

ICAT Line Voltage

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

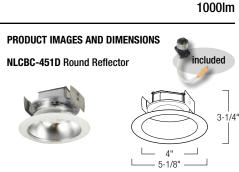
ACCESSORIES

NLCBC-4EYELID: Round eyelid used to convert round reflector or baffle to half moon wall wash trim. **NLCBC-40R:** Round oversize ring used to cover ceiling cut-outs up to 6".

LABELS AND LISTINGS

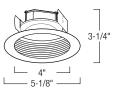
- · cULus classified for Wet Locations
- ENERGY STAR certified
- 5-Year Limited Warranty
- Can be used to comply with 2016 Title 24 part 6 High Efficacy LED light source requirements





NLCBC-452D Round Baffle

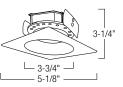




Source: 13W/16W LED

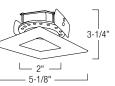
NLCBC-453 Square Round





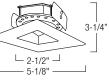
NLCBC-455 Square Pinhole





NLCBC-456 Square Regress





4" Cobalt Retrofit Reflectors			Optional Accessories	
Reflector Type	Color Temp.	Finish	Dimming & Emergency	Description
NLCBC-453 = Square Round	27 = 2700K	WW = White / White	(blank) = 120V Triac/ELV	NLCBC-4EYELIDB = 4" Round Eyelid, Black
NLCBC-455 = Square Pinhole	30 = 3000K	MPW = Matte Powder White	EM = Remote Emergency	NLCBC-4EYELIDBZ = 4" Round Eyelid, Bronze
NLCBC-456 = Square Regress	40 = 4000K (MPW only))	(requires Nora EM housing)	NLCBC-4EYELIDMPW = 4" Round Eyelid, Matte Powder White
NLCBC-451D = Round Reflector	27 = 2700K	BZ = Bronze / Bronze	(blank) = 120V Triac/ELV	NLCBC-4EYELIDW = 4" Round Eyelid, White
NLCBC-452D = Round Baffle	30 = 3000K	DW = Diffused / White (451D only)	EM = Remote Emergency	NLCBC-40R-B = 4" Round Oversize Ring, Black
	40 = 4000K	HZW = Haze / White (451D only)	(requires Nora EM housing)	NLCBC-40R-BZ = 4" Round Oversize Ring, Bronze
	MPW = Matte Powder White WW = White / White		NLCBC-40R-MPW = 4" Round Oversize Ring, Matte Powder Whit	
NLCBC-451D = Round Reflector	30 = 3000K	DD = Diffused / Diffused	LE4 = 120V Triac/ELV or 0-10V	NLCBC-40R-W = 4" Round Oversize Ring, White
	35 = 3500K	DW = Diffused / White WW = White / White	277V 0-10V LE4EM = LE4 w/ Remote Emergency (requires Nora EM housing)	NRA-211SM = Medium base screw-in socket (included) NRA-212SM = Socket adapter for use with GU24 housings

Example: NLCBC-451D30MPW = 4" Cobalt Retrofit Round Reflector, 1000lm / 13W LED, 3000K, Matte Powder White Finish



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Type Project

Catalog No.

Lamp/Wattage

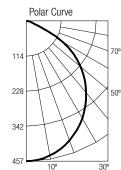


PHOTOMETRICS

4" Cobalt Retrofit Series

Test Information

Test Number: 795866 Part Number: NLCBC-451D40WW Lumens: 1036lm Wattage: 15.3W Efficacy: 68lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0º-180): 1.2 Spacing Criteria (90°-270): 1.2



Illuminance at a Distance Distance from FC at Nadir Beam Diameter Luminaire 4' 28.5fc 9'-8" 6' 12.7fc 14'-7" 8' 7.1fc 19'-5" 10' 24'-4" 4.6fc 12' 3.2fc 29'-1"

Туре

Project Catalog No.

Lamp/Wattage

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	345	33.3
0-40	556	53.6
0-60	932	90
0-90	1036	100
90-180	0	0
0-180	1036	100

Candela Table

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NLCBC-55 Series

5" Cobalt Retrofit Reflectors

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 luminaires produces 1000 lumen output at 90+ CRI. The Cobalt series integrates a Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption. An obvious and smart choice for Green Energy efficient lighting in commercial and residential applications.

FEATURES

- 1000lm LED output
- 2700K, 3000K or 4000K @ 90+ CRI
- CREE[®] COB LED
- Integral dimmable driver
- 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: Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output. The deep trim places the LED optics deeper, increasing the visual comfort and reduces board images when off.

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 Lumens: 1000lm Wattage: 13W Color Temperature: 2700K, 3000K or 4000K CRI: 90+CRI Operating Temp.: 0°C to 45°C ambient temperature Dimming: Available in Triac/ELV, must specify

Click Here or check complete dimmer list at www. NoraLighting.com in the "Compatibility" page under "Resources" tab

5" Cohalt Potrofit Pofloctore

COMPATIBLE HOUSINGS

Cobalt retrofit reflectors are compatible with most 5" IC and Non-IC housings by Nora and others. Fire Box NFBIC-5LMRAT* ICAT Dedicated LED NFBIC-5INCAT ICAT Line Voltage

New Construction

NHIC-527LMRAT* Shallow ICAT Dedicated LED NHIC-5LMRAT* ICAT Dedicated LED NHICCP-5LMRAT* NHIC-5LMRAT/277* (includes step-down transformer) NHIC-5LMRAT/EM* NHIC-527QAT NHIC-501QAT NH-5010 NHIC-5G24ATFL

Chicago Plenum Dedicated LED ICAT Dedicated LED, 277V ICAT Dedicated LED for EM Shallow ICAT Line Voltage ICAT Line Voltage Non-IC Line Voltage ICAT GU24

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

NHRIC-5G24ATFL

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

* 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-50R: Round oversize ring used to cover ceiling cut-outs up to 7-1/8".

LABELS AND LISTINGS

- cULus classified for Wet Locations
- **ENERGY STAR certified**
- 5-Year Limited Warranty
 - Can be used to comply with 2016 Title 24 part 6 High Efficacy LED light source requirements



PRODUCT IMAGES AND DIMENSIONS NLCBC-551 Round Reflector



Source: 13W LED

1000lm

NLCBC-552 Round Baffle

Ontional Accessories



				Optional Accessories
Reflector Type	Color Temp.	Finish	Dimming & Emergency	Description
NLCBC-551 = Round Reflector	27 = 2700K	BZ = Bronze / Bronze	(blank) = 120V Triac/ELV	NLCBC-5EYELIDB = 5" Round Eyelid, Black
NLCBC-552 = Round Baffle		NLCBC-5EYELIDBZ = 5" Round Eyelid, Bronze		
	40 = 4000K	HZW = Haze / White (551D only)	(requires Nora EM housing)	NLCBC-5EYELIDMPW = 5" Round Eyelid, Matte Powder White
		MPW = Matte Powder White WW = White / White		NLCBC-5EYELIDW = 5" Round Eyelid, White
				NLCBC-50R-B = 5" Round Oversize Ring, Black
				NLCBC-50R-BZ = 5" Round Oversize Ring, Bronze
				NLCBC-50R-MPW = 5" Round Oversize Ring, Matte Powder Whit
				NLCBC-50R-W = 5" Round Oversize Ring, White
				NRA-211SM = Medium base screw-in socket (included)
				NRA-212SM = Socket adapter for use with GU24 housings

Example: NLCBC-55130MPW = 5" Cobalt Retrofit Reflector, 1000Im / 13W LED, 3000K, Matte Powder White Finish



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Catalog No.

Туре

Lamp/Wattage

Project

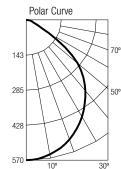


PHOTOMETRICS

5" Cobalt Retrofit Series

Test Information

Test Number: 795870 Part Number: NLCBC-55140WW Lumens: 1207Im Wattage: 16.3W Efficacy: 74lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180): 1.2 Spacing Criteria (90°-270): 1.2



Illuminance at a Distance

4' 35.6fc 9'-2" 6' 15.8fc 13'-10" 0° 8' 8.9fc 18'-5"		Distance from Luminaire	FC at Nadir	Beam Diameter
0° 8' 8.9fc 18'-5"	0°	4'	35.6fc	9'-2"
		6'	15.8fc	13'-10"
10' 5.7fc 23'	0°	8'	8.9fc	18'-5"
10 3.710 23		10'	5.7fc	23'
12' 4fc 27'-7"		12'	4fc	27'-7"

Туре

Project Catalog No.

Lamp/Wattage

Zonal Lumen Summary		
Zone	Lumens	% Luminaire
0-30	430	35.6
0-40	690	57.2
0-60	1114	92.2
0-90	1207	100
90-180	0	0
0-180	1207	100

Candela Table

Vertical Angles	Candela
0	570
5	567
15	539
25	488
35	416
45	329

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NLCBC-65 Series

6" Cobalt Retrofit Reflectors

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 luminaires produces 1000 lumen output at 90+ CRI. The Cobalt series integrates a Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption. An obvious and smart choice for Green Energy efficient lighting in commercial and residential applications.

FEATURES

- 1000lm LED output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- CREE[®] COB LED technology
- Integral dimmable driver
- 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: Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output. The deep trim places the LED optics deeper, increasing the visual comfort and reduces board images when off.

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: 1000lm

Wattage: 13W (120V) or 16W (LE4)

Color Temperature: 2700K, 3000K, 3500K or 4000K CRI: 90+CRI

Operating Temp.: 0°C to 45°C ambient temperature 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

COMINATIBLE HOUSIN	uð
Cobalt retrofit reflectors	are compatible with most 6" IC
and Non-IC housings by	Nora and others.
Fire Box	
NFBIC-6LMRAT*	ICAT Dedicated LED
NFBIC-6LMRAT/4W	ICAT Dedicated LED for LE4
NFBIC-6INCAT	ICAT Line Voltage
New Construction	
NHIC-27LMRAT*	Shallow ICAT Dedicated LED
NHIC-6LMRAT*	ICAT Dedicated LED
NHICCP-6LMRAT*	Chicago Plenum Dedicated LED
NHIC-6LMRAT/277*	ICAT Dedicated LED, 277V
(includes step-down tra	nsformer)

Туре

Project Catalog No.

Lamp/Wattage

(includes step-down tra	nsformer)
NHIC-6LMRAT/4W*	ICAT Dedicated LED for LE4
NHIC-6LMRAT/EM*	ICAT Dedicated LED for EM
NHIC-6LMRAT/6WEM*	* ICAT Dedicated LED for EM+LE4
NHIC-27QAT	Shallow ICAT Line Voltage
NHIC-17QAT	ICAT Line Voltage
NH-26Q	Non-IC Line Voltage
NHIC-6G24ATFL	ICAT GU24

Shallow ICAT Dedicated LED

Shallow ICAT Line Voltage

ICAT Dedicated LED

Non-IC Line Voltage

ICAT Line Voltage

Remodel

NHRIC-27LMRAT* NHRIC-6LMRAT* NHRIC-27QAT NHRIC-17QAT NHR-26Q NHRIC-6G24ATFL

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

ICAT GU24

ACCESSORIES

NLCBC-6EYELID: Round eyelid used to convert round reflector or baffle to half moon wall wash trim. NLCBC-60R: Round oversize ring used to cover ceiling cut-outs up to 8-1/4".

LABELS AND LISTINGS

- cULus classified for Wet Locations
- **ENERGY STAR certified**
- 5-Year Limited Warranty
- Can be used to comply with 2016 Title 24 part 6 High Efficacy LED light source requirements



1000lm

Source: 13W/16W LED

PRODUCT IMAGES AND DIMENSIONS

NLCBC-651 Round Reflector



NLCBC-652 Round Baffle



" Cobalt Retrofit Reflec	tors	Optional Accessories		
Reflector Type	Color Temp.	Finish	Dimming & Emergency	Description
NLCBC-651 = Round Reflector NLCBC-652 = Round Baffle	27 = 2700K 30 = 3000K 40 = 4000K	BZ = Bronze / Bronze DW = Diffused / White (651 only) HZW = Haze / White (651 only) MPW = Matte Powder White WW = White / White	(blank) = 120V Triac/ELV EM = Remote Emergency (requires Nora EM housing)	NLCBC-6EYELIDB = 6" Round Eyelid, Black NLCBC-6EYELIDBZ = 6" Round Eyelid, Bronze NLCBC-6EYELIDMPW = 6" Round Eyelid, Matte Powder White NLCBC-6EYELIDMPW = 6" Round Eyelid, White
NLCBC-651 = Round Reflector NLCBC-652 = Round Baffle	35 = 3500K	$\mathbf{WW} = \mathbf{White} \ / \ \mathbf{White}$	(blank) = 120V Triac/ELV EM = Remote Emergency (requires Nora EM housing)	NLCBC-60R-B = 6" Round Oversize Ring, Black NLCBC-60R-BZ = 6" Round Oversize Ring, Bronze
NLCBC-651 = Round Reflector	30 = 3000K 35 = 3500K	DD = Diffused / Diffused DW = Diffused / White WW = White / White	LE4 = 120V Triac/ELV or 0-10V 277V 0-10V LE4EM = LE4 w/ Remote Emergency (requires Nora EM housing)	NLCBC-60R-MPW = 6" Round Oversize Ring, Matte Powder Whit NLCBC-60R-W = 6" Round Oversize Ring, White NRA-211SM = Medium base screw-in socket (included) NRA-212SM = Socket adapter for use with GU24 housings

Example: NLCBC-65130MPW = 6" Cobalt Retrofit Reflector, 1000lm / 13W LED, 3000K, Matte Powder White Finish



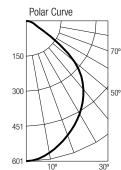


PHOTOMETRICS

6" Cobalt Retrofit Series

Test Information

Test Number: 795874 Part Number: NLCBC-65140WW Lumens: 1202lm Wattage: 15.7W Efficacy: 77lpw CCT / CRI: 4000K / 90 CRI Spacing Criteria (0°-180): 1.16 Spacing Criteria (90°-270): 1.16



Illuminance at a Distance Distance from FC at Nadir Beam Diameter Luminaire 4' 37.5fc 8'-11" 6' 16.7fc 13'-4" 8' 17'-8" 9.4fc 10' 6fc 22'-2" 12' 4.2fc 26'-7"

Туре

Project Catalog No.

Lamp/Wattage

Zonal Lumen Summary					
Zone	Lumens	% Luminaire			
0-30	437	36.4			
0-40	701	58.3			
0-60	1113	92.7			
0-90	1202	100			
90-180	0	0			
0-180	1202	100			

Candela Table

Vertical Angles	Candela
0	601
5	593
15	549
25	491
35	423
45	335

