

NLCBC-669 Series

6" Cobalt Retrofit Adjustable Reflectors

Source: 14W LED
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 adjustable design rotates and adjusts while never exposing an opening or breaking the ceiling plane. The luminaires produce over 1000 lumens, drawing 14W at 90+ CRI. The Cobalt series intergrates a Cree® COB family of LED arrays, giving bright spectacular light output and low power consumption.

FEATURES

- Retrofit existing 6" recessed housings
- Field adjustable beam spreads (flood installed, spot and narrow flood included)
- Over 1000 lumen output
- 2700K, 3000K, 3500K or 4000K @ 90+ CRI
- Cree® COB LED Technology
- Integral dimmable driver
- Includes medium base socket adapter
- ENERGY STAR certified

SPECIFICATION

Trim: Aluminum spun reflector with deep set diffused lens for excellent visual comfort while providing high lumen output. Adjustable design rotates and adjusts while never exposing an opening or breaking the ceiling plane. Reflector places the LED optics deeper than the standard increasing the visual comfort. Additionally the deep cones reduces board images when off.

Adjustability: 358° rotate and 30° tilt

Optics: Spot (included), Medium (included) and Flood optic (installed)

Lens: Frosted Lens (installed) and Semi-Frosted Lens (included)

ELECTRICAL

Input Voltage: 120V

Lumens / Wattage: 1000lm / 14W

(Delivered lumens will vary depending on CCT, beam spread and finish)

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

CRI: 90+CRI

Beam Spread: 27° Spot, 53° Narrow Flood, 99° Flood

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

Dimming: Available in Triac/ELV-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-6LMRATA*	ICAT Dedicated LED
NFBIC-6LMRATA/4W	ICAT Dedicated LED for LE4
NFBIC-6INCATA	ICAT Line Voltage

New Construction

NHIC-27LMRAT*	Shallow ICAT Dedicated LED
NHIC-6LMRAT*	ICAT Dedicated LED
NHIC-6LMRAT/4W*	ICAT Dedicated LED for LE4
NHIC-6LMRAT/EM*	ICAT Dedicated LED for EM
NHIC-6LMRAT/6WEM*	ICAT Dedicated LED for EM+LE4
NHIC-6LMRAT/277*	ICAT Dedicated LED, 277V (includes step-down transformer)
NHICCP-6LMRAT*	Chicago Plenum Dedicated LED
NHIC-27QAT	Shallow ICAT Line Voltage
NHIC-17QAT	ICAT Line Voltage
NH-26Q	Non-IC Line Voltage
NHIC-6G24ATFL	ICAT GU24

Remodel

NHRIC-27LMRAT*	Shallow ICAT Dedicated LED
NHRIC-6LMRAT*	ICAT Dedicated LED
NHRIC-27QAT	Shallow ICAT Line Voltage
NHRIC-17QAT	ICAT Line Voltage
NHR-26Q	Non-IC Line Voltage
NHRIC-6G24ATFL	ICAT GU24

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

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.

ACCESSORIES

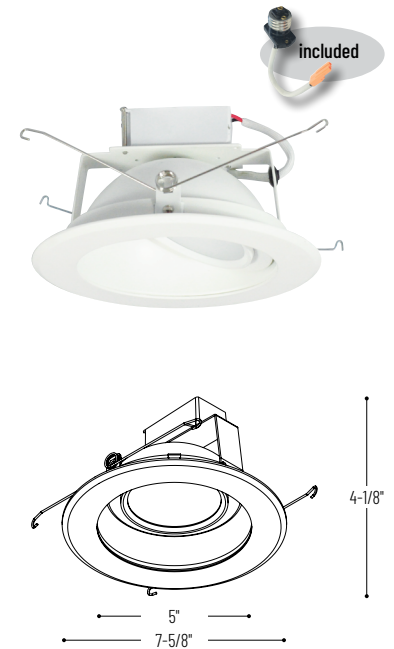
NLCBC-669TIR: Premium TIR optics are available in 15° or 45°, must specify ring finish.

LABELS AND LISTINGS

- cULus classified for Damp Location when used with compatible frame-in
- Suitable for Type IC and Non-IC
- Can be used to comply with 2016 Title 24 - part 6 High Efficacy LED light source requirements
- ENERGY STAR certified (not BB or BZBZ finish)
- RoHS Compliant
- [5-Year Limited Warranty](#)



PRODUCT IMAGES & DIMENSIONS



6" Cobalt Retrofit Adjustable Reflector

Reflector Type	Color Temp.	Finish	Dimming & Emergency
NLCBC-669 = Round Adjustable	27X = 2700K	BB = Black / Black	(blank) = 120V Triac/ELV EM = Remote Emergency (requires Nora EM housing)
	30X = 3000K	BZBZ = Bronze / Bronze	
	35X = 3500K	HZN = Haze / Natural Metal	
	40X = 4000K	HZW = Haze / White MPW = Matte Powder White WW = White / White	
NLCBC-669 = Round Adjustable	30X = 3000K	HZW = Haze / White	LE4 = 120V 0-10V/Triac/ELV 277V 0-10V (requires Nora 4W housing) LE4EM = LE4 w/ Remote Emergency (requires Nora 6WEM housing)
	35X = 3500K	WW = White / White	

Optional Accessories

Description	Optic	Ring Finish
NLCBC-669TIR = TIR optic	15 = 15°	B = Black
	45 = 45°	BZ = Bronze HZ = Haze MPW = Matte Powder White WW = White / White
NRA-211SM = Medium base screw-in socket (included)		
NRA-212SM = Socket adapter for use with GU24 housings		

Example: NLCBC-66935XWW = 6" Cobalt Retrofit Adjustable Reflector, 1000lm / 14W, 3500K, White Finish

PHOTOMETRICS

6" Cobalt Retrofit Adjustable Reflector Series

Type

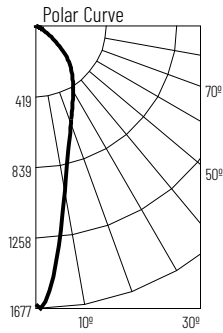
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Test Information

Test Number: NTR11169
 Part Number: NLCBC-66940SWW
 Beam Spread: Spot
 Lumens: 1194lm
 Wattage: 13.1W
 Efficacy: 91lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180): 0.42
 Spacing Criteria (90°-270): 0.44



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	57.9fc	3'-5"
6'	25.7fc	5'-1"
8'	14.5fc	6'-10"
10'	9.3fc	8'-6"
12'	6.4fc	10'-4"

Zonal Lumen Summary

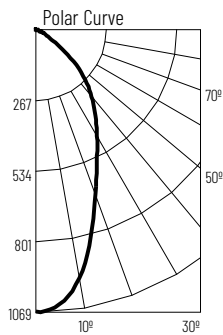
Zone	Lumens	% Luminaire
0-30	568	47.5
0-40	808	67.7
0-60	1114	93.3
0-90	1183	99
90-180	11	1
0-180	1194	100

Candela Table

Vertical Angles	Candela
0	1653
5	1364
15	748
25	515
35	386
45	267

Test Information

Test Number: NTR11168
 Part Number: NLCBC-66940MWW
 Beam Spread: Narrow Flood
 Lumens: 1213lm
 Wattage: 13.1W
 Efficacy: 93lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180): 0.76
 Spacing Criteria (90°-270): 0.76



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	42.4fc	5'-6"
6'	18.9fc	8'-4"
8'	10.6fc	11'
10'	6.8fc	13'-10"
12'	4.7fc	16'-6"

Zonal Lumen Summary

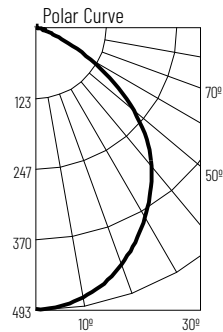
Zone	Lumens	% Luminaire
0-30	579	47.8
0-40	829	68.3
0-60	1136	93.7
0-90	1201	99
90-180	12	1
0-180	1213	100

Candela Table

Vertical Angles	Candela
0	1067
5	1046
15	822
25	554
35	401
45	271

Test Information

Test Number: NTR11167
 Part Number: NLCBC-66940FWW
 Beam Spread: Flood
 Lumens: 1099lm
 Wattage: 13.1W
 Efficacy: 84lpw
 CCT / CRI: 4000K / 90 CRI
 Spacing Criteria (0°-180): 1.22
 Spacing Criteria (90°-270): 1.18



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	26.6fc	9'-2"
6'	11.8fc	13'-10"
8'	6.7fc	18'-5"
10'	4.3fc	23'-1"
12'	3fc	27'-8"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	369	33.6
0-40	592	53.8
0-60	975	88.7
0-90	1087	98.9
90-180	11.8	1.1
0-180	1099	100

Candela Table

Vertical Angles	Candela
0	491
5	490
15	472
25	430
35	372
45	300

Lumen Output Multipliers

Color Temperature: 2700K (0.87), 3000K (0.96), 3500K (0.96), 4000K (1.00)