

NLCBC-669
6" Cobalt LED Adjustable Retrofit
Source: 14W LED
Up to 1200lm

PRODUCT DESCRIPTION
Cobalt retrofit series is cULus classified for use in existing IC or Non-IC housings manufactured by Nora and others. Patented adjustable mechanism rotates and adjusts while never exposing an opening or breaking the ceiling plane. Retrofit luminaires deliver up to 1200 lumens in various color temperature options. Cobalt series integrates the latest COB LED technology, 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)
 - Up to 1200 lumen output
 - 2700K, 3000K, 3500K or 4000K @ 90+ CRI
 - 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: Up to 1200lm / 14W
(Delivered lumens will vary depending on CCT, optic & finish)
Color Temperature: 2700K, 3000K, 3500K or 4000K
Color Rendering Index: 90+ CRI
Beam Spread: 27° Spot, 53° Narrow Flood, 99° Flood
Operating Temperature: 0°C to 45°C
Life Expectancy: 54,000 Hours @ L70
Dimming: Triac, ELV or 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* 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
* 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-21ISM) for retrofitting into existing medium base downlight housings. GU24 socket adapter is available for use with GU24 housings, must specify NRA-212SM.

ACCESSORIES
NLCBC-669TIR15: 15° Premium TIR optic, must specify ring finish.
NLCBC-60R: Oversize ring up to 8", must specify finish.

- LABELS AND LISTINGS
- cULus classified for Damp Locations when used with compatible housing
 - Suitable for Type IC and Non-IC
 - Certified to the high efficacy requirements of California Title 24 JA8-2022
 - ENERGY STAR certified (not BB or BZBZ finish)
 - RoHS Compliant
 - 5-Year Limited Warranty
 - FCC compliant



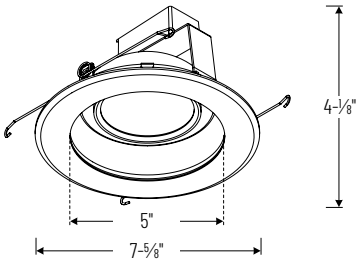
Table with 2 columns: Type, Project, Catalog No., Notes

Performance Data table with 3 columns: Part Number, Lumens, CCT

Delivered lumens will vary depending on CCT, optic and finish

PRODUCT IMAGES & DIMENSIONS

Images showing various reflector and flange options: BB (Black Reflector, Black Flange), BZBZ (Bronze Reflector, Bronze Flange), HZN (Haze Reflector, Natural Metal Flange), HZW (Haze Reflector, White Flange), MPW (Matte Powder White Reflector, Matte Powder White Flange), WW (White Reflector, White Flange).



6" Cobalt LED Adjustable Retrofit

Table with 3 columns: Color Temperature, Reflector Finish / Flange Finish, Dimming & Emergency

Optional Accessories

Table with 2 columns: Description, Ring Finish

Example: NLCBC-66935XWW = 6" Cobalt LED Adjustable Retrofit, 3500K, White Reflector / White Flange, 120V input; Triac / ELV dimming

PHOTOMETRICS

6" Cobalt LED Adjustable Retrofit

Type

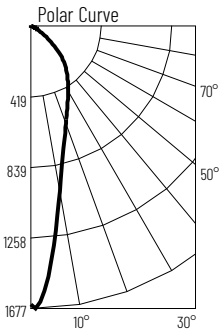
Project

Catalog No.

Notes

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

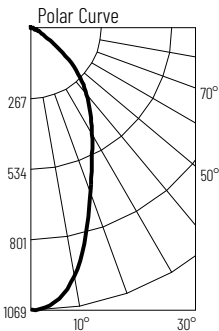
Zone	Lumens	% Luminaire
0-30	568	47.5
0-40	808	67.7
0-60	1114	93.3
0-90	1183	99
90-180	11	1
0-180	1194	100

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

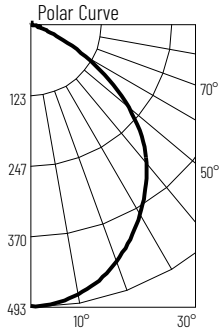
Zone	Lumens	% Luminaire
0-30	579	47.8
0-40	829	68.3
0-60	1136	93.7
0-90	1201	99
90-180	12	1
0-180	1213	100

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)