

NLCBS-4

4" Cobalt Dedicated Shallow Reflectors

Source: 13.5W to 16.5W LED

850lm to 1250lm

PRODUCT DESCRIPTION

4" Cobalt shallow reflectors are dedicated for Cobalt shallow housing. Available in multiple finishes and lumens outputs, also in round and square apertures. Cobalt family utilize Cree LED technology throughout, for a consistent and uniform appearance.

FEATURES

- 850lm or 1250lm LED packages
- 2700K, 3000K 3500K or 4000K @ 90+ CRI
- Cree® COB LED Technology
- 5-Year limited warranty
- ENERGY STAR certified
- cULus listed for wet locations

ELECTRICAL

Delivered Lumens / Wattage:

85 = 1098lm / 13.5W @ 4000K

12 = 1330lm / 16.5W @ 4000K

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

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

Color Rendering Index: 90+ CRI

Operating Temperature: 0°C to 25°C

Dimming: Determined by housing

COMPATIBLE HOUSING

Shallow reflectors are compatible with Cobalt Shallow housing manufactured by Nora Lighting.

CATALOG NO.	DESCRIPTION	LUMENS / WATTAGE
NHSIC-485LE3LT	Shallow IC Air-Tight New Construction	850lm / 13.5W
NHSIC-412LE4LT	Shallow IC Air-Tight New Construction	1250lm / 16.5W

LABELS AND LISTINGS

- cULus Listed for Wet Locations
- ENERGY STAR certified
- Patent #D797,977S; D871,644S; D824,568S; D877,390S
- Certified to the high efficacy requirements of California Title 24 JA8-2022
- [5-Year Limited Warranty](#)
- RoHS Compliant
- FCC Compliant



4" Cobalt Shallow Reflectors - Requires Cobalt Shallow Housing

Reflector Type	Lumens / Wattage	Color Temp.	Finishes (See chart below)
NLCBS-453 = Square w/Round Aperture	85 = 850lm / 13.5W	27 = 2700K	BB = Black / Black
NLCBS-456 = Square w/Square Aperture	12 = 1250lm / 16.5W	30 = 3000K	BW = Black / White
NLCBS-4W51 = Round Reflector		35 = 3500K	BZ = Bronze / Bronze
NLCBS-4W52 = Round Baffle		40 = 4000K	DW = Diffused / White
			DMPW = Diffused / Matte Powder White
			HMPW = Haze / Matte Powder White
			HZW = Haze / White
			MPW = Mate Powder White
			NN = Natural Metal / Natural Metal
			PW = Pewter / White
			WW = White / White

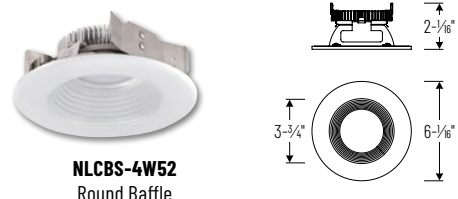
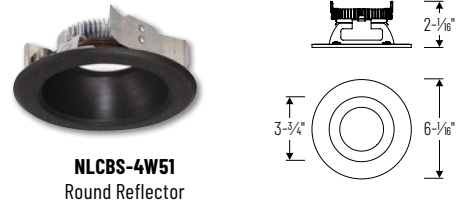
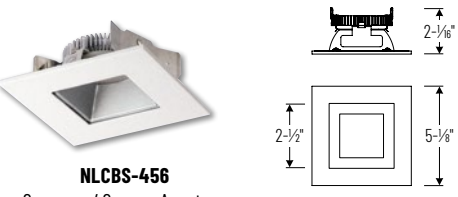
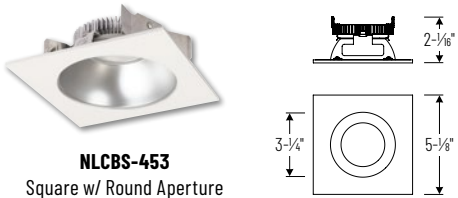
Available Trim Finishes

	BB	BW	BZ	DW	DMPW	HMPW	HZW	MPW	NN	PW	WW
453			.	.			.	.		.	.
456	.	.	.				.	.	.	.	.
4W51			.		.	.		.			.
4W52			.					.			.

Type
Project
Catalog No.
Notes

PRODUCT IMAGES & DIMENSIONS

PATENT No.:
D797,977S
D871,644S
D824,568S
D877,390S



Example: NLCBS-4538530WW = 4" Cobalt Shallow Square Reflector w/Round Aperture, 850lm / 13.5W LED, 3000K, White Reflector / White Flange

PHOTOMETRICS

4" Cobalt Dedicated Shallow Reflectors

Type

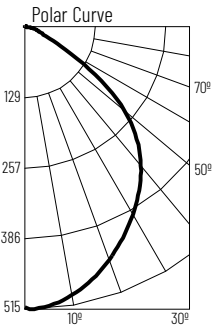
Project

Catalog No.

Notes

Test Information

Test Number: NTR1182
Part Number: NLCBS-4W518540WW
Lumens: 1098lm
Wattage: 13.3W
Efficacy: 83lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180): 1.16
Spacing Criteria (90°-270): 1.18



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	32.2fc	9'-2"
6'	14.3fc	13'-11"
8'	8fc	18'-6"
10'	5.1fc	23'-1"
12'	3.6fc	27'-8"

Zonal Lumen Summary

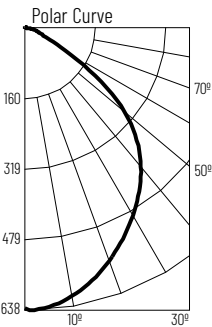
Zone	Lumens	% Luminaire
0-30	381	34.7
0-40	611	55.6
0-60	998	90.9
0-90	1090	99.3
90-180	8	0.7
0-180	1098	100

Candela Table

Vertical Angles	Candela
0	514
5	511
15	479
25	427
35	369
45	298

Test Information

Test Number: NTR1177
Part Number: NLCBS-4W511240WW
Lumens: 1330lm
Wattage: 15.4W
Efficacy: 86lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180): 1.16
Spacing Criteria (90°-270): 1.18



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"

Zonal Lumen Summary

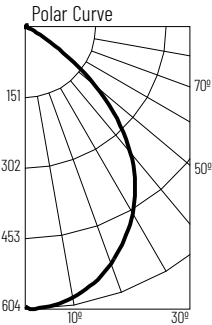
Zone	Lumens	% Luminaire
0-30	468	35.2
0-40	749	56.3
0-60	1212	91.2
0-90	1320	99.3
90-180	10	0.7
0-180	1330	100

Candela Table

Vertical Angles	Candela
0	634
5	630
15	591
25	525
35	449
45	360

Test Information

Test Number: NTR11275
Part Number: NLCBS-4561230HZW
Lumens: 1035lm
Wattage: 15.4W
Efficacy: 67lpw
CCT / CRI: 3000K / 90 CRI
Spacing Criteria (0°-180): 1.16
Spacing Criteria (90°-270): 1.08



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
4'	37.4fc	6'-11"
6'	16.6fc	10'-4"
8'	9.3fc	13'-10"
10'	6fc	17'-2"
12'	4.2fc	20'-7"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	442	42.7
0-40	687	66.4
0-60	974	94.1
0-90	1009	97.4
90-180	27	2.6
0-180	1035	100

Candela Table

Vertical Angles	Candela
0	598
5	599
15	567
25	501
35	393
45	223