

NC3-61 / NC3-66 / NC3-68

6" Sapphire III LED Reflectors

Source: 11W to 60W

900lm to 5500lm

PRODUCT DESCRIPTION

The architectural grade Sapphire III high lumen LED downlights are a perfect solution for lobbies, corridors, offices and conference rooms. The Sapphire III utilizes Signify® Fortimo COB LED technology for better optic control with three specified beam spreads. Beam spreads focus the light down to the work plane from high ceiling applications. The reflectors have been designed for the high efficiency (LPW) while providing low aperture brightness.

FEATURES

- Signify® Fortimo COB LED technology
- Specifiable beam spreads
- 6" deep cone reflectors, wall wash and deco glass
- 2700K, 3000K, 3500K and 4000K @ 90+ CRI
- 5-year limited warranty

SPECIFICATION

Reflector: Deep cone reflector spun from 0.050" high grade aluminum provides even illumination and visual comfort. The deep cone reflectors provide 55+ degree cut-off. NC3-68 includes 3 studs mounted in the flange for attaching decorative glass. Decorative glass will reduce the amount of usable light by 10 to 30%, depending on the selected glass.

Reflector Assembly: The reflector assembly includes the LED optical package and heat sink mounted on top. Reflector assembly easily wires to dedicated frame with lockable quick connect.

Decorative Glass: NC3-68 is compatible with up to two decorative glass options (ordered separately). Each glass includes mounting hardware (NRA-203).

- NTG-6CF** 6" Tempered Clear Glass with Frosted Center
- NTG-6FC** 6" Tempered Frosted Glass with Clear Center
- NTG-6HC** 6" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

Integral Emergency Switch: NC3-61 is compatible with integral emergency test switch (must specify). EMI test switch for field install to the trim. EMI2 test switch is pre-installed to the trim.

Remote Emergency: All reflectors are compatible with remote emergency options.

LABELS AND LISTINGS

- cULus Listed for Wet Locations when used with compatible frame-in
- [5-Year Limited Warranty](#)
- ENERGY STAR certified (BB, BMPW, and CC finishes are not certified)
- RoHS Compliant
- FCC Compliant



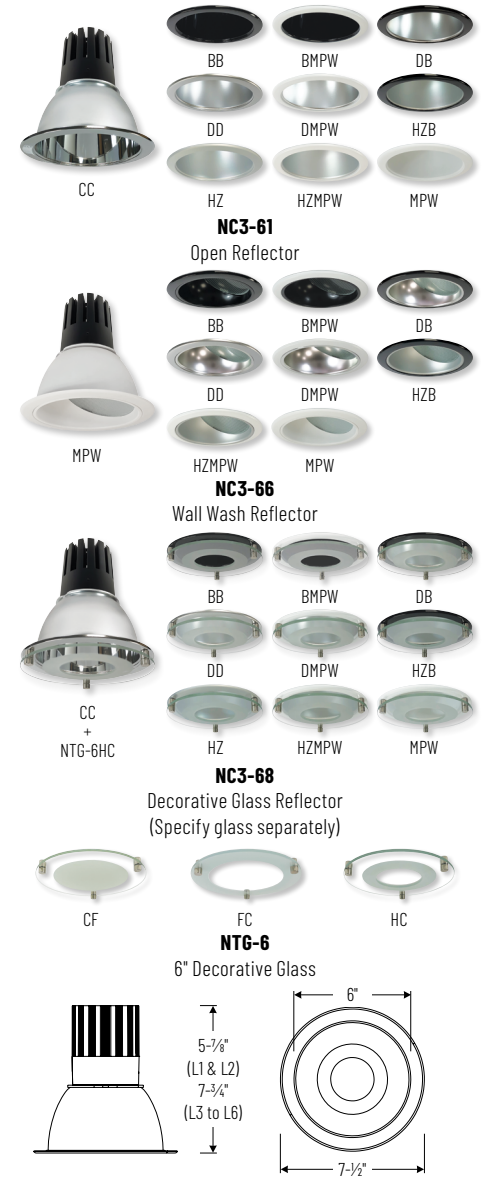
Type

Project

Catalog No.

Notes

PRODUCT IMAGES & DIMENSIONS



ELECTRICAL	L1	L2	L3	L4	L5	L6
Delivered Lumens	900lm	1500lm	2500lm	3500lm	4500lm	5500lm
Wattage	11W max.	16W max.	24W max.	36W max.	46W max.	60W max.
Color Temperature	2700K, 3000K, 3500K or 4000K					
Color Rendering Index	90+ CRI					
Beam Spread	38° Spot, 56° Narrow Flood or 72° Flood					
Compatible Frame-In	NCH3-6L1 NCHR3-6L1	NCH3-6L2 NCHR3-6L2	NCH3-6L3 NCHR3-6L3	NCH3-6L4 NCHR3-6L4	NCH3-6L5 NCHR3-6L5	NCH3-6L6 NCHR3-6L6
Lifetime	50,000 hours @ L70					

6" Sapphire III LED Reflectors - Dedicated Frame-In Required

Reflector Type	Lumens / Wattage	CCT	Beam Spread	Reflector / Flange Finish	Optional Emergency
NC3-61 = Open Reflector	L1 = 900lm / 11W	27 = 2700K	S = Spot	BB = Black Reflector / Black Flange	/EMI = Integral Emergency Test Switch (Compatible with NC3-61 & new construction only, must specify on new construction, switch located on frame-in)
NC3-66 = Wall Wash ¹	L2 = 1500lm / 16W	30 = 3000K	N = Narrow Flood	BMPW = Black Reflector / White Flange	
NC3-68 = Deco Glass ^{*1}	L3 = 2500lm / 24W	35 = 3500K	F = Flood	CC = Specular Clear Reflector / Specular Clear Flange ¹	/EMI2 = Integral Emergency Test Switch ¹ (Compatible with NC3-61 up to 4500lm only, must specify on new construction/remodel, switch is located on reflector) ¹ Not compatible with 5500lm
¹ Not compatible with 5500lm	L4 = 3500lm / 36W	40 = 4000K		DB = Clear Diffused Reflector / Black Flange	
	L5 = 4500lm / 46W			DD = Clear Diffused Reflector / Clear Diffused Flange	
	L6 = 5500lm / 60W			DMPW = Clear Diffused Reflector / White Flange	
				HZ = Haze Reflector / Haze Flange	
				HZB = Haze Reflector / Black Flange	
				HZMPW = Haze Reflector / White Flange	
				MPW = White Reflector / White Flange	

* Decorative Glass Options:

- NTG-6CF** Tempered Clear Glass with Frosted Center
- NTG-6FC** Tempered Clear Glass with Clear Center
- NTG-6HC** Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

Example: **NC3-61L630NMPW** = 6" Sapphire III Open Reflector, 5500lm / 60W, 3000K, Narrow Flood Beam Spread, White Reflector / White Flange

PHOTOMETRICS

6" Sapphire III LED Reflectors
5500lm / 60W

Type

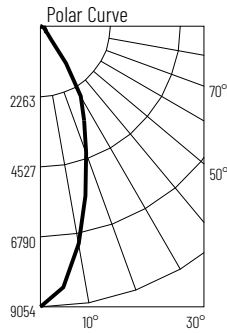
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Test Information

Test Number: NTR2350R1
Part Number: NC3-61L640SMPW
Beam Spread: 38° Spot
Lumens: 5673lm
Wattage: 56.59W
Efficacy: 100lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.62
Spacing Criteria (90°-270°): 0.62



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	141fc	5'-7"
12'	62.9fc	8'-5"
16'	35.4fc	11'-2"
20'	22.6fc	14'
24'	15.7fc	16'-10"

Zonal Lumen Summary

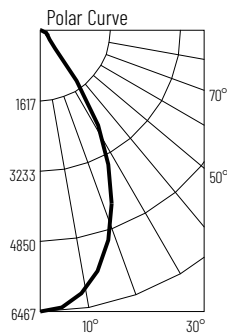
Zone	Lumens	% Luminaire
0-30	3900	68.8
0-40	4883	86.1
0-60	5362	94.5
0-90	5673	100
90-180	0	0
0-180	5673	100

Candela Table

Vertical Angles	Candela
0	9054
5	8452
15	5655
25	3344
35	1462
45	307

Test Information

Test Number: NTR2349R1
Part Number: NC3-61L640NMPW
Beam Spread: 56° Narrow Flood
Lumens: 5709lm
Wattage: 56.65W
Efficacy: 101lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.86
Spacing Criteria (90°-270°): 0.86



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	101fc	8'-7"
12'	44.9fc	12'-11"
16'	25.3fc	17'-1"
20'	16.2fc	21'-5"
24'	11.2fc	25'-8"

Zonal Lumen Summary

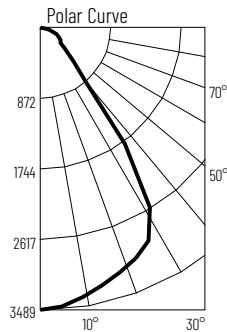
Zone	Lumens	% Luminaire
0-30	3364	58.9
0-40	4654	81.5
0-60	5377	94.2
0-90	5709	100
90-180	0	0
0-180	5709	100

Candela Table

Vertical Angles	Candela
0	6467
5	6361
15	5481
25	3838
35	1679
45	305

Test Information

Test Number: NTR2343R1
Part Number: NC3-61L640FMPW
Beam Spread: 72° Flood
Lumens: 5003lm
Wattage: 56.68W
Efficacy: 88lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.18
Spacing Criteria (90°-270°): 1.16



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	54.5fc	11'-8"
12'	24.2fc	17'-7"
16'	13.6fc	23'-5"
20'	8.7fc	29'-4"
24'	6.1fc	35'-1"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	2168	43.3
0-40	3449	68.9
0-60	4535	90.7
0-90	5003	100
90-180	0	0
0-180	5003	100

Candela Table

Vertical Angles	Candela
0	3489
5	3448
15	3243
25	3014
35	1965
45	589

Lumen Output Multipliers

Lumen Package: L1 (0.18), L2 (0.25), L3 (0.47), L4 (0.67), L5 (0.8), L6 (1.00)
Color Temperature: 2700K (0.5), 3000K (0.91), 3500K (0.97), 4000K (1.00)
Reflector Finish: Black (0.68), Specular Clear (1.06), Diffused (1.08), Haze (0.96), White (1.00)