

NC3-41 / NC3-46 / NC3-48

4" Sapphire III LED Reflectors

Source: 13W to 46W

900lm to 4500lm

Type

Project

Catalog No.

Notes

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. The Sapphire III luminaires are proudly assembled in the USA.

FEATURES

- Signify® Fortimo COB LED technology
- Specifiable beam spreads
- 4" 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. NC3-48 includes 3 studs mounted in the flange for attaching decorative glass. The 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.

ELECTRICAL	L1	L2	L3	L4	L5
Delivered Lumens	900lm	1500lm	2500lm	3500lm	4500lm
Wattage	13W max.	18W max.	26W max.	38W max.	46W max.
Color Temperature	2700K, 3000K, 3500K or 4000K				
Color Rendering Index	90+ CRI				
Beam Spread	38° Spot, 53° Narrow Flood or 64° Flood				
Compatible Frame-In	NCH3-4L1 NCHR3-4L1	NCH3-4L2 NCHR3-4L2	NCH3-4L3 NCHR3-4L3	NCH3-4L4 NCHR3-4L4	NCH3-4L5 NCHR3-4L5
Lifetime	50,000 hours @ L70				

Decorative Glass: NC3-48 is compatible with up to two decorative glass options (ordered separately). Each glass includes mounting hardware (NRA-203).

NTG-4SPH-FC 4" Tempered Frosted Glass with Clear Center

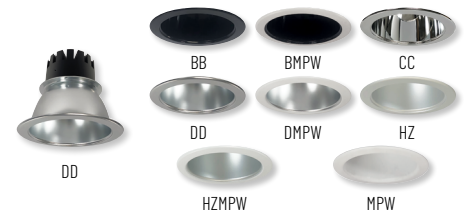
NTG-4SPH-HC 4" Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

LABELS AND LISTINGS

- cULus Listed for Wet Locations when used with compatible frame-in
- [5-Year Limited Warranty](#)
- ENERGY STAR certified
- RoHS Compliant
- FCC Compliant



PRODUCT IMAGES & DIMENSIONS



NC3-41

Open Reflector



NC3-46

Wall Wash Reflector



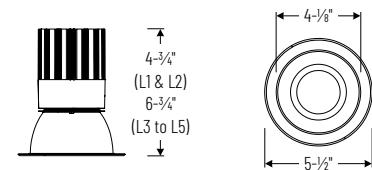
NC3-48

Decorative Glass Reflector
(Specify glass separately)



NTG-4SPH

4" Decorative Glass



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

Reflector Type	Lumens / Wattage	CCT	Beam Spread	Reflector / Flange Finish
NC3-41 = Open Reflector	L1 = 900lm / 13W	27 = 2700K	S = Spot	BB = Black Reflector / Black Flange
NC3-46 = Wall Wash ¹	L2 = 1500lm / 18W	30 = 3000K	N = Narrow Flood	BMPW = Black Reflector / Matte Powder White Flange
NC3-48 = Deco Glass ^{*, 1}	L3 = 2500lm / 26W	35 = 3500K	F = Flood	CC = Specular Clear Reflector / Specular Clear Flange ¹
¹ Not compatible with 4500lm	L4 = 3500lm / 38W	40 = 4000K		DD = Clear Diffused Reflector / Clear Diffused Flange
	L5 = 4500lm / 46W			DMPW = Clear Diffused Reflector / Matte Powder White Flange
				HZ = Haze Reflector / Haze Flange ¹
				HZMPW = Haze Reflector / Matte Powder White Flange ¹
				MPW = Matte Powder White Reflector & Flange

¹ Not available with wall wash

* Decorative Glass Options:

NTG-4SPH-FC Tempered Clear Glass with Clear Center

NTG-4SPH-HC Tempered Clear Glass with Frosted Center and 3-1/8" Open Center

Example: **NC3-41L530MPW** = 4" Sapphire III Open Reflector, 4500lm / 46W, 3000K, Narrow Flood Beam Spread, Matte Powder White Reflector / Matte Powder White Flange

PHOTOMETRICS

4" Sapphire III LED Reflectors
4500lm / 46W

Type

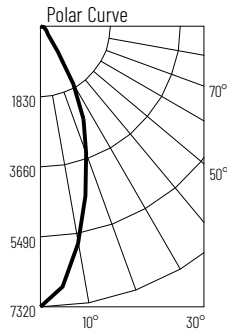
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Test Information

Test Number: NTR2365R1
Part Number: NC3-41L540SMPW
Beam Spread: 38° Spot
Lumens: 4419lm
Wattage: 43.6W
Efficacy: 101lpw
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'	114fc	5'-7"
12'	50.8fc	8'-6"
16'	28.6fc	11'-4"
20'	18.3fc	14'-1"
24'	12.7fc	16'-11"

Zonal Lumen Summary

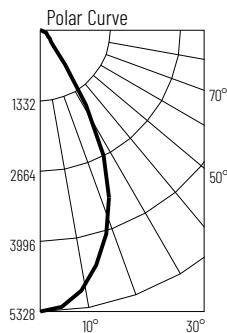
Zone	Lumens	% Luminaire
0-30	3132	70.9
0-40	3741	84.7
0-60	4166	94.3
0-90	4419	100
90-180	0	0
0-180	4419	100

Candela Table

Vertical Angles	Candela
0	7320
5	6815
15	4581
25	2675
35	802
45	293

Test Information

Test Number: NTR2366R1
Part Number: NC3-41L540NMPW
Beam Spread: 53° Narrow Flood
Lumens: 4385lm
Wattage: 43.36W
Efficacy: 101lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 0.84
Spacing Criteria (90°-270°): 0.84



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	83.3fc	8'-1"
12'	37fc	12'-2"
16'	20.8fc	16'-2"
20'	13.3fc	20'-4"
24'	9.3fc	24'-4"

Zonal Lumen Summary

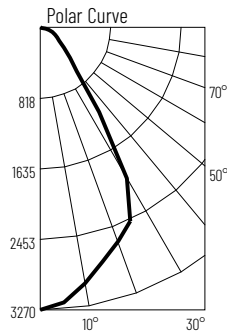
Zone	Lumens	% Luminaire
0-30	2677	61
0-40	3555	81.1
0-60	4119	93.9
0-90	43385	100
90-180	0	0
0-180	4385	100

Candela Table

Vertical Angles	Candela
0	5328
5	5224
15	4404
25	3005
35	999
45	293

Test Information

Test Number: NTR2367R1
Part Number: NC3-41L540FMPW
Beam Spread: 64° Flood
Lumens: 3922lm
Wattage: 43.59W
Efficacy: 90lpw
CCT / CRI: 4000K / 90 CRI
Spacing Criteria (0°-180°): 1.02
Spacing Criteria (90°-270°): 1.02



Illuminance at a Distance

Distance from Luminaire	FC at Nadir	Beam Diameter
8'	51.1fc	10'-1"
12'	22.7fc	15'-2"
16'	12.8fc	20'-2"
20'	8.2fc	25'-4"
24'	5.7fc	30'-4"

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	2187	55.8
0-40	2951	75.3
0-60	3588	91.5
0-90	3922	100
90-180	0	0
0-180	3922	100

Candela Table

Vertical Angles	Candela
0	3270
5	3194
15	2807
25	2471
35	1196
45	497

Lumen Output Multipliers

Lumen Package: L1 (0.23), L2 (0.31), L3 (0.58), L4 (0.84), L5 (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), Matte Powder White (1.00)