

# NC3-61 / NC3-66 / NC3-68

## 6" Sapphire III LED Reflectors

Source: 13W 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. The Sapphire III luminaires are proudly assembled in the USA.

### 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

**Emergency:** NC3-61 is compatible with integral emergency test switch (must specify)

### 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



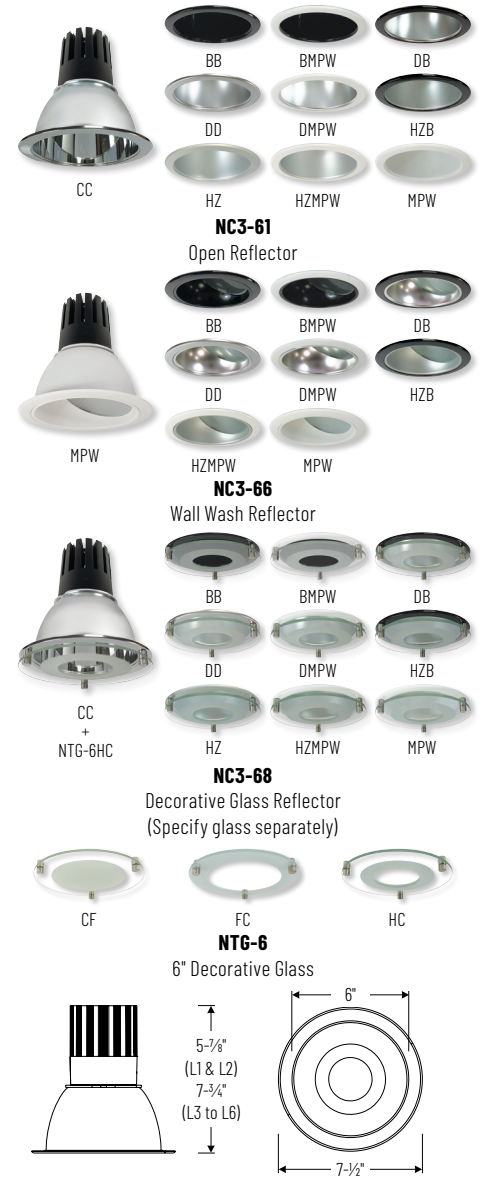
Type

Project

Catalog No.

Notes

### PRODUCT IMAGES & DIMENSIONS



| ELECTRICAL                   | L1                                      | L2                    | L3                    | L4                    | L5                    | L6                    |
|------------------------------|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| <b>Delivered Lumens</b>      | 900lm                                   | 1500lm                | 2500lm                | 3500lm                | 4500lm                | 5500lm                |
| <b>Wattage</b>               | 13W max.                                | 18W max.              | 26W max.              | 38W max.              | 46W max.              | 60W max.              |
| <b>Color Temperature</b>     | 2700K, 3000K, 3500K or 4000K            |                       |                       |                       |                       |                       |
| <b>Color Rendering Index</b> | 90+ CRI                                 |                       |                       |                       |                       |                       |
| <b>Beam Spread</b>           | 38° Spot, 56° Narrow Flood or 72° Flood |                       |                       |                       |                       |                       |
| <b>Compatible Frame-In</b>   | NCH3-6L1<br>NCHR3-6L1                   | NCH3-6L2<br>NCHR3-6L2 | NCH3-6L3<br>NCHR3-6L3 | NCH3-6L4<br>NCHR3-6L4 | NCH3-6L5<br>NCHR3-6L5 | NCH3-6L6<br>NCHR3-6L6 |
| <b>Lifetime</b>              | 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  |
|--|--------------------------|-------------------|-------------------------|---|---|
| <b>NC3-61</b> = Open Reflector           | <b>L1</b> = 900lm / 13W  | <b>27</b> = 2700K | <b>S</b> = Spot         | <b>BB</b> = Black Reflector / Black Flange                                | <b>EMI</b> = Integral Emergency Test Switch<br>(Compatible with NC3-61 only must specify on frame-in) |
| <b>NC3-66</b> = Wall Wash <sup>1</sup>   | <b>L2</b> = 1500lm / 18W | <b>30</b> = 3000K | <b>N</b> = Narrow Flood | <b>BMPW</b> = Black Reflector / Matte Powder White Flange                 |   |
| <b>NC3-68</b> = Deco Glass <sup>*1</sup> | <b>L3</b> = 2500lm / 26W | <b>35</b> = 3500K | <b>F</b> = Flood        | <b>CC</b> = Specular Clear Reflector / Specular Clear Flange <sup>1</sup> |   |
| <sup>1</sup> Not compatible with 5500lm  | <b>L4</b> = 3500lm / 38W | <b>40</b> = 4000K |                         | <b>DB</b> = Clear Diffused Reflector / Black Flange                       |   |
|  | <b>L5</b> = 4500lm / 46W |                   |                         | <b>DD</b> = Clear Diffused Reflector / Clear Diffused Flange              |   |
|  | <b>L6</b> = 5500lm / 60W |                   |                         | <b>DMPW</b> = Clear Diffused Reflector / Matte Powder White Flange        |   |
|  |                          |                   |                         | <b>HZ</b> = Haze Reflector / Haze Flange                                  |   |
|  |                          |                   |                         | <b>HZB</b> = Haze Reflector / Black Flange                                |   |
|  |                          |                   |                         | <b>HZMPW</b> = Haze Reflector / Matte Powder White Flange                 |   |
|  |                          |                   |                         | <b>MPW</b> = Matte Powder White Reflector & 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, Matte Powder White Reflector / Matte Powder White Flange

# PHOTOMETRICS

6" Sapphire III LED Reflectors  
5500lm / 60W

Type

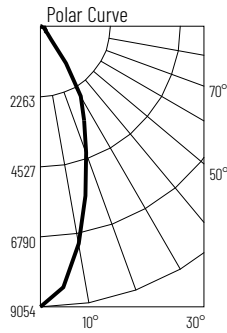
Project

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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

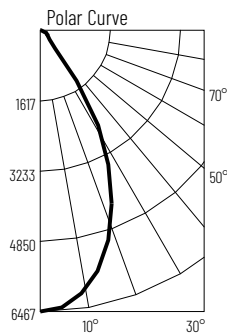
| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 3900   | 68.8        |
| 0-40   | 4883   | 86.1        |
| 0-60   | 5362   | 94.5        |
| 0-90   | 5673   | 100         |
| 90-180 | 0      | 0           |
| 0-180  | 5673   | 100         |

## 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

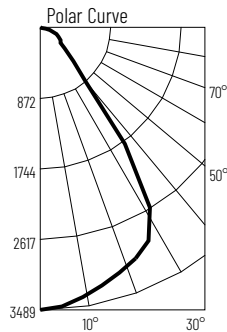
| Zone   | Lumens | % Luminaire |
|--------|--------|-------------|
| 0-30   | 3364   | 58.9        |
| 0-40   | 4654   | 81.5        |
| 0-60   | 5377   | 94.2        |
| 0-90   | 5709   | 100         |
| 90-180 | 0      | 0           |
| 0-180  | 5709   | 100         |

## 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), Matte Powder White (1.00)