PHILIPS

Lighting




# Essential SmartBright LED Downlight

## DN027B G3 LED12/WW 12W 220-240V D150 RD

Essential SmartBright LED Downlight, 12 W, 1200 lm, 3000 K, Beam angle 110°, White

Essential SmartBright G2 LED Downlight is value for money product with high efficacy, good quality and reliability. It offers multiple configurations from 300lm to 2000lm output, to replace conventional downlight. It can be used for shopping mall, retail store, residential and office. It's an ideal product family to distribute in trade market.

### Product data

| General Information | |
|---|---|
| **Light source replaceable** | No |
| **Number of gear units** | 1 unit |
| **Driver included** | Yes |
| **Lighting Technology** | LED |
| **Warranty period** | 3 years |

| Light Technical | |
|---|---|
| **Luminous Flux** | 1,200 lm |
| **Correlated Color Temperature (Nom)** | 3000 K |
| **Luminous Efficacy (rated) (Nom)** | 100.00 lm/W |
| **Color rendering index (CRI)** | 80 |
| **Light source color** | 830 warm white |
| **Optic type** | Beam angle 110° |
| **Luminaire light beam spread** | 110° |

| Operating and Electrical | |
|---|---|
| **Input Voltage** | 220 to 240 V |
| **Line Frequency** | 50 or 60 Hz |
| **Input Frequency** | 50 or 60 Hz |
| **Inrush current** | 3.85 A |
| **Inrush time** | 0.101 ms |
| **Power Consumption** | 12 W |
| **Power Factor (Fraction)** | 0.9 |
| **Cable** | Cable 0.2 m without plug |
| **Number of products on MCB of 16 A type B** | 74 |
| **Suitable for random switching** | No |
| **Protection class IEC** | Safety class II |

| Controls and Dimming | |
|---|---|
| **Dimmable** | No |
| **Driver/power unit/transformer** | Power supply unit (On/Off) |

# Essential SmartBright LED Downlight

| | |
|---|---|
| **Constant light output** | No |

## Mechanical and Housing

| | |
|---|---|
| **Housing Material** | Metal–Plastic |
| **Reflector material** | - |
| **Optic material** | Polycarbonate |
| **Optical cover material** | Polycarbonate |
| **Fixation material** | Steel |
| **Housing Color** | White |
| **Optical cover finish** | Matte |
| **Overall length** | 175 mm |
| **Overall width** | 175 mm |
| **Overall height** | 45 mm |
| **Overall diameter** | 175 mm |
| **Dimensions (Height x Width x Depth)** | 45 x 175 x 175 mm |
| **Ingress protection code** | IP20/40 [Finger-protected;Wire-protected] |
| **Mech. impact protection code** | IK03 [0.3 J] |
| **Net Weight (Piece)** | 0.210 kg |

## Approval and Application

| | |
|---|---|
| **Glow-wire test** | Temperature 650 °C, duration 30 s |
| **Flammability mark** | For mounting on normally flammable surfaces |
| **EU RoHS compliant** | Yes |
| **Ambient temperature range** | -20 to +40 °C |

## Initial Performance (IEC Compliant)

| | |
|---|---|
| **Luminous flux tolerance** | +/-10% |
| **Initial chromaticity** | (IEC3000K, 0.44, 0.403) < 5SDCM |
| **Power consumption tolerance** | +/-10% |

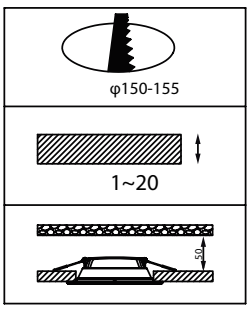
## Over Time Performance (IEC Compliant)

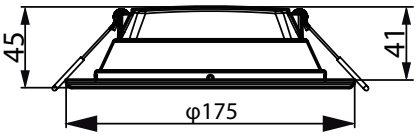
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|---|---|
| **Driver failure rate at 5000 h** | 0.012 % |
| **Median useful life L70B50** | 30,000 hour(s) |

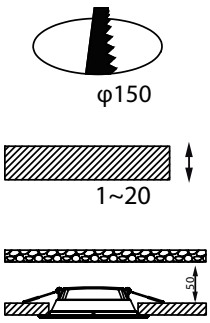
## Product Data

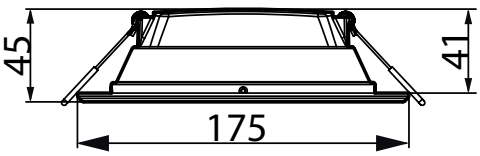
| | |
|---|---|
| **Order product name** | DN027B G3 LED12/WW 12W 220-240V D150 RD |
| **Full product name** | DN027B G3 LED12/WW 12W 220-240V D150 RD |
| **Full product code** | 871951434508900 |
| **Order code** | 929002673338 |
| **Material Nr. (12NC)** | 929002673338 |
| **Numerator - Quantity Per Pack** | 1 |
| **EAN/UPC - Product/Case** | 8719514345089 |
| **Numerator - Packs per outer box** | 24 |
| **EAN/UPC - Case** | 8719514345096 |

## Dimensional drawing



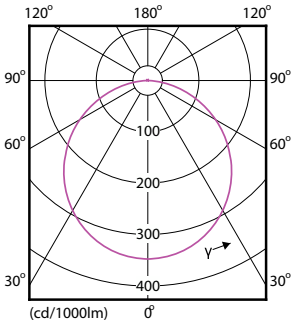



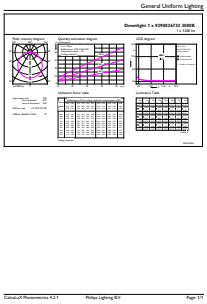



# Essential SmartBright LED Downlight

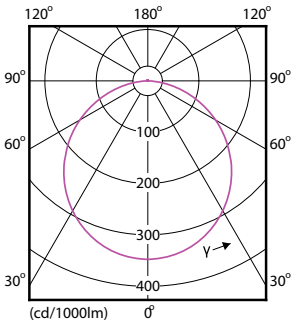
## Photometric data




Light Distribution Diagram - DN027B G3 LED12/WW 12W 220-240V D150 RD



General uniform lighting - DN027B G3 LED12/WW 12W 220-240V D150 RD




Light Distribution Diagram - DN027B G3 LED12/WW 12W 220-240V D150 RD

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