



# Less Hassle, More Savings

## Essential SmartBright LED Downlight

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.

### Benefits

- Reliability and safety: meets national and international regulation
- Energy saving: High system efficacy with lower power consumption
- Diversity: One stop shopping with multiple choices of recess round, square as well as surface-mount to fit your dedicated applications
- Easy to install with slim design

### Features

- Long life time: 20Khrs to 30Khrs(L70B50@25°C)
- System efficiency: up to 85lm/W
- One family offers recess round, square and surface mount options
- Slim design: 33mm housing body height

### Application

- Retail
- Office
- Residential

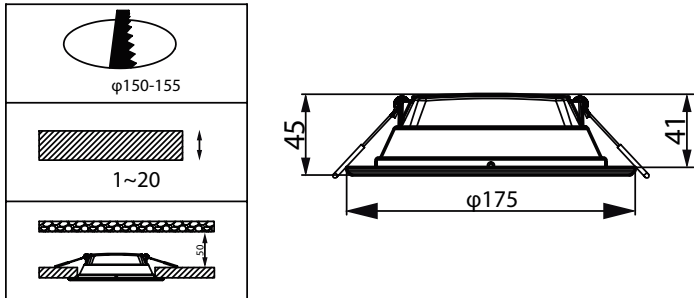
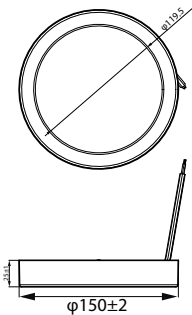
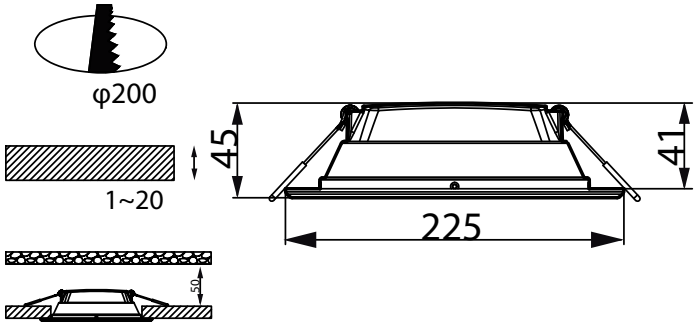
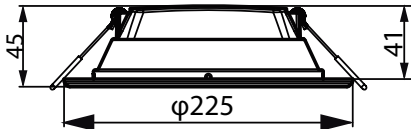
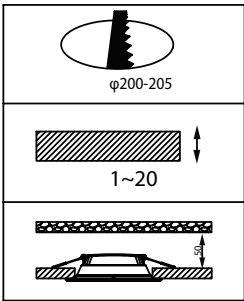
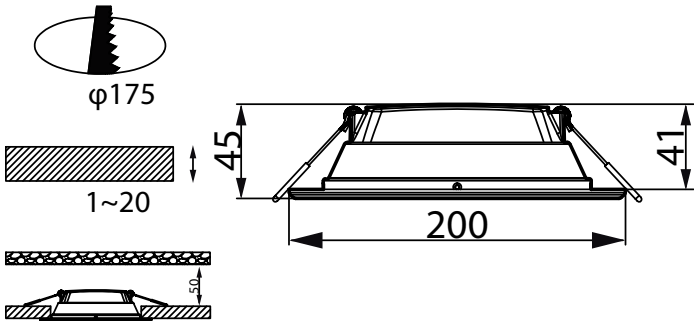
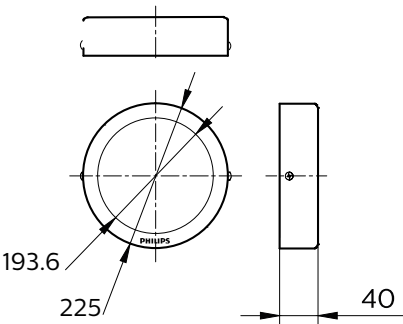
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## Versions



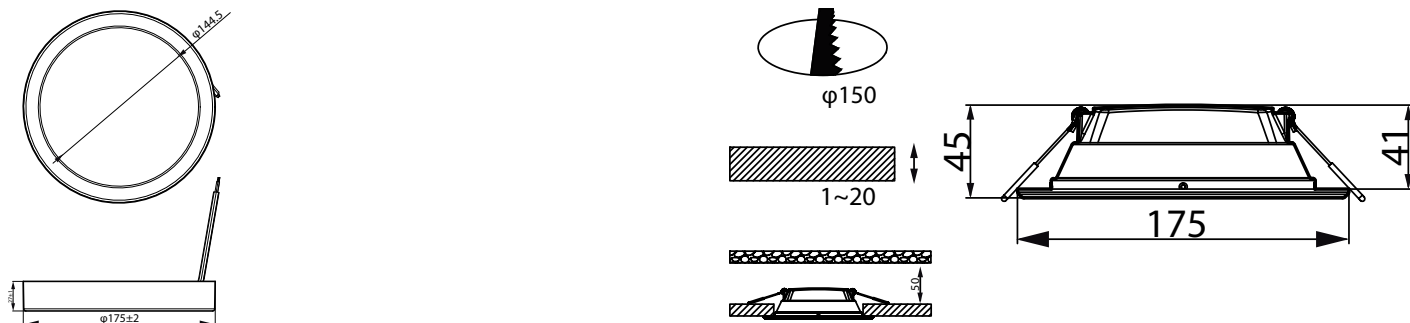
Essential SmartBright DN027C RD

## Dimensional drawing



# Essential SmartBright LED Downlight

## Dimensional drawing



## Product details



Essential SmartBright DN027C  
Round

### General Information

|                          |    |
|--------------------------|----|
| Light source replaceable | No |
|--------------------------|----|

### Light Technical

|                                    |        |
|------------------------------------|--------|
| Correlated Color Temperature (Nom) | 4000 K |
| Color rendering index (CRI)        | 80     |

### Operating and Electrical

|                |              |
|----------------|--------------|
| Input Voltage  | 220 to 240 V |
| Line Frequency | 50 or 60 Hz  |

### Temperature

|                           |               |
|---------------------------|---------------|
| Ambient temperature range | -20 to +40 °C |
|---------------------------|---------------|

### Mechanical and Housing

|               |       |
|---------------|-------|
| Housing Color | White |
|---------------|-------|

### Approval and Application

|                      |                 |
|----------------------|-----------------|
| Protection class IEC | Safety class II |
|----------------------|-----------------|

### General Information

| Order Code   | Full Product Name                       | Driver included | Flammability mark                           | Glow-wire test                    | Number of gear units |
|--------------|-----------------------------------------|-----------------|---------------------------------------------|-----------------------------------|----------------------|
| 911401816697 | DN027C LED20/NW D225                    | -               | -                                           | -                                 | -                    |
| 929002673438 | DN027B G3 LED12/NW 12W 220-240V D150 RD | Yes             | For mounting on normally flammable surfaces | Temperature 650 °C, duration 30 s | 1 unit               |
| 929002674038 | DN027B G3 LED15/NW 15W 220-240V D175 RD | Yes             | For mounting on normally flammable surfaces | Temperature 650 °C, duration 30 s | 1 unit               |
| 929002674638 | DN027B G3 LED20/NW 19W 220-240V D200 RD | Yes             | For mounting on normally flammable surfaces | Temperature 650 °C, duration 30 s | 1 unit               |
| 929002675838 | DN027C G3 LED9/NW 9W 220-240V D150      | Yes             | For mounting on normally flammable surfaces | Temperature 650 °C, duration 30 s | 1 unit               |
| 929002676138 | DN027C G3 LED12/NW 12W 220-240V D175    | Yes             | For mounting on normally flammable surfaces | Temperature 650 °C, duration 30 s | 1 unit               |

## Light Technical

Essential SmartBright LED Downlight

| Order Code   | Full Product Name                       | Luminous                  | Luminous | Optic type         |
|--------------|-----------------------------------------|---------------------------|----------|--------------------|
|              |                                         | Efficacy (rated)<br>(Nom) |          |                    |
| 911401816697 | DN027C LED20/NW D225                    | -                         | 2,000 lm | -                  |
| 929002673438 | DN027B G3 LED12/NW 12W 220-240V D150 RD | 108.00 lm/W               | 1,300 lm | Beam<br>angle 110° |
| 929002674038 | DN027B G3 LED15/NW 15W 220-240 D175 RD  | 106.00 lm/W               | 1,600 lm | Beam<br>angle 110° |
| 929002674638 | DN027B G3 LED20/NW 19W 220-240V D200 RD | 110.00 lm/W               | 2,100 lm | Beam<br>angle 110° |

Operating and Electrical

| Order Code   | Full Product Name                       | Power Consumption |
|--------------|-----------------------------------------|-------------------|
| 911401816697 | DN027C LED20/NW D225                    | 23 W              |
| 929002673438 | DN027B G3 LED12/NW 12W 220-240V D150 RD | 12 W              |
| 929002674038 | DN027B G3 LED15/NW 15W 220-240 D175 RD  | 15 W              |

Controls and Dimming

| Order Code   | Full Product Name                       | Dimmable |
|--------------|-----------------------------------------|----------|
| 911401816697 | DN027C LED20/NW D225                    | -        |
| 929002673438 | DN027B G3 LED12/NW 12W 220-240V D150 RD | No       |
| 929002674038 | DN027B G3 LED15/NW 15W 220-240 D175 RD  | No       |

Approval and Application

| Order Code   | Full Product Name                       | Mech. impact    | Ingress         |
|--------------|-----------------------------------------|-----------------|-----------------|
|              |                                         | protection code | protection code |
| 911401816697 | DN027C LED20/NW D225                    | IK02            | IP20            |
| 929002673438 | DN027B G3 LED12/NW 12W 220-240V D150 RD | IK03            | IP20/40         |
| 929002674038 | DN027B G3 LED15/NW 15W 220-240 D175 RD  | IK03            | IP20/40         |
| 929002674638 | DN027B G3 LED20/NW 19W 220-240V D200 RD | IK03            | IP20/40         |

Initial Performance (IEC Compliant)

| Order Code   | Full Product Name                       | Initial chromaticity              | Luminous          |
|--------------|-----------------------------------------|-----------------------------------|-------------------|
|              |                                         |                                   | flux<br>tolerance |
| 911401816697 | DN027C LED20/NW D225                    | -                                 | -                 |
| 929002673438 | DN027B G3 LED12/NW 12W 220-240V D150 RD | (IEC4000K, 0.38, 0.38)<br>< 5SDCM | +/-10%            |
| 929002674038 | DN027B G3 LED15/NW 15W 220-240 D175 RD  | (IEC4000K, 0.38, 0.38)<br>< 5SDCM | +/-10%            |
| 929002674638 | DN027B G3 LED20/NW 19W 220-240V D200 RD | (IEC4000K, 0.38, 0.38)<br>< 5SDCM | +/-10%            |

| Order Code   | Full Product Name                    | Luminous                  | Luminous | Optic type         |
|--------------|--------------------------------------|---------------------------|----------|--------------------|
|              |                                      | Efficacy (rated)<br>(Nom) |          |                    |
| 929002675838 | DN027C G3 LED9/NW 9W 220-240V D150   | 105.00 lm/W               | 950 lm   | Beam<br>angle 110° |
| 929002676138 | DN027C G3 LED12/NW 12W 220-240V D175 | 108.00 lm/W               | 1,300 lm | Beam<br>angle 110° |

| Order Code   | Full Product Name                       | Power Consumption |
|--------------|-----------------------------------------|-------------------|
| 929002674638 | DN027B G3 LED20/NW 19W 220-240V D200 RD | 19 W              |
| 929002675838 | DN027C G3 LED9/NW 9W 220-240V D150      | 9 W               |
| 929002676138 | DN027C G3 LED12/NW 12W 220-240V D175    | 12 W              |

| Order Code   | Full Product Name                       | Dimmable |
|--------------|-----------------------------------------|----------|
| 929002674638 | DN027B G3 LED20/NW 19W 220-240V D200 RD | No       |
| 929002675838 | DN027C G3 LED9/NW 9W 220-240V D150      | No       |
| 929002676138 | DN027C G3 LED12/NW 12W 220-240V D175    | No       |

| Order Code   | Full Product Name                    | Mech. impact    | Ingress         |
|--------------|--------------------------------------|-----------------|-----------------|
|              |                                      | protection code | protection code |
| 929002675838 | DN027C G3 LED9/NW 9W 220-240V D150   | IK03            | IP20/40         |
| 929002676138 | DN027C G3 LED12/NW 12W 220-240V D175 | IK03            | IP20/40         |

| Order Code   | Full Product Name                    | Initial chromaticity              | Luminous          |
|--------------|--------------------------------------|-----------------------------------|-------------------|
|              |                                      |                                   | flux<br>tolerance |
| 929002675838 | DN027C G3 LED9/NW 9W 220-240V D150   | (IEC4000K, 0.38, 0.38)<br>< 5SDCM | +/-10%            |
| 929002676138 | DN027C G3 LED12/NW 12W 220-240V D175 | (IEC4000K, 0.38, 0.38)<br>< 5SDCM | +/-10%            |

Essential SmartBright LED Downlight

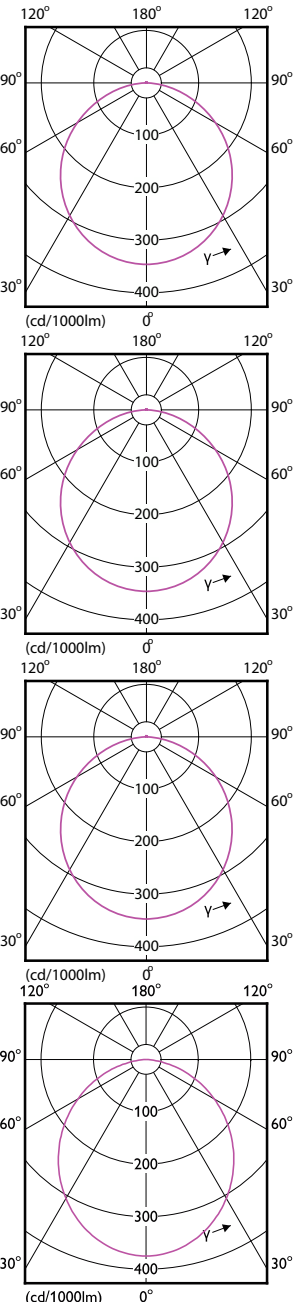
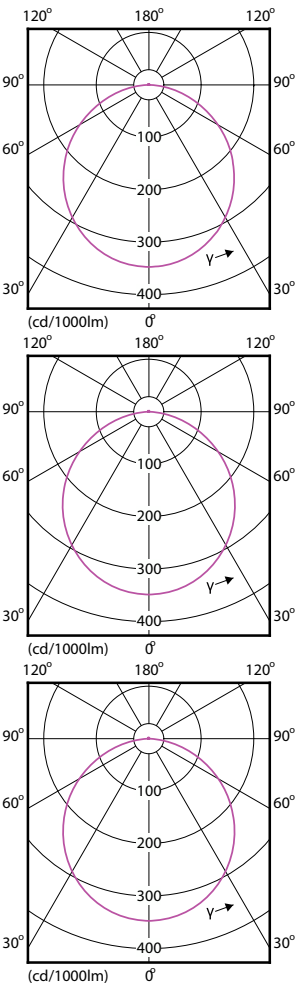
Over Time Performance (IEC Compliant)

| Order Code   | Full Product Name                       | Driver failure rate at 5000 h |
|--------------|-----------------------------------------|-------------------------------|
| 911401816697 | DNO27C LED20/NW D225                    | -                             |
| 929002673438 | DNO27B G3 LED12/NW 12W 220-240V D150 RD | 0.012 %                       |
| 929002674038 | DNO27B G3 LED15/NW 15W 220-240 D175 RD  | 0.012 %                       |

| Order Code   | Full Product Name                       | Driver failure rate at 5000 h |
|--------------|-----------------------------------------|-------------------------------|
| 929002674638 | DNO27B G3 LED20/NW 19W 220-240V D200 RD | 0.012 %                       |
| 929002675838 | DNO27C G3 LED9/NW 9W 220-240V D150      | 0.012 %                       |
| 929002676138 | DNO27C G3 LED12/NW 12W 220-240V D175    | 0.012 %                       |

Application Conditions

| Order Code   | Full Product Name                       | Suitable for random switching |
|--------------|-----------------------------------------|-------------------------------|
| 911401816697 | DNO27C LED20/NW D225                    | -                             |
| 929002673438 | DNO27B G3 LED12/NW 12W 220-240V D150 RD | No                            |
| 929002674038 | DNO27B G3 LED15/NW 15W 220-240 D175 RD  | No                            |
| 929002674638 | DNO27B G3 LED20/NW 19W 220-240V D200 RD | No                            |
| 929002675838 | DNO27C G3 LED9/NW 9W 220-240V D150      | No                            |
| 929002676138 | DNO27C G3 LED12/NW 12W 220-240V D175    | No                            |



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