

Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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	125 mm
Overall width	125 mm
Overall height	40 mm
Overall diameter	125 mm
Dimensions (Height x Width x Depth)	40 x 125 x 125 mm

Approval and Application

Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

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)

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

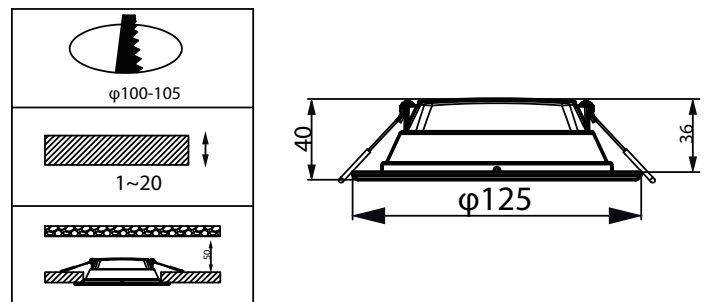
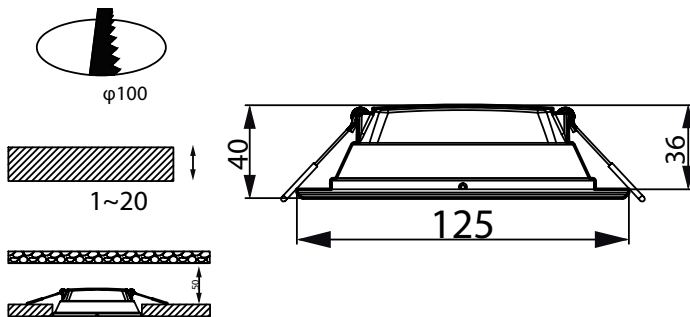
Application Conditions

Suitable for random switching	No
-------------------------------	----

Product Data

Order product name	DN027B G3 LED6/WW 6W 220-240V D100 RD
Full product name	DN027B G3 LED6/WW 6W 220-240V D100 RD
Full product code	871951434562100
Order code	929002672138
Material Nr. (12NC)	929002672138
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.125 kg
EAN/UPC - Product/Case	8719514345621
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514345638

Dimensional drawing





Essential SmartBright LED Downlight

DN027B G3 LED6/NW 6W 220-240V D100 RD

Essential SmartBright LED Downlight, 6 W, 600 lm, 4000 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		Operating and Electrical	
Light source replaceable	No	Input Voltage	220 to 240 V
Number of gear units	1 unit	Line Frequency	50 or 60 Hz
Driver included	Yes	Input Frequency	50 or 60 Hz
Lighting Technology	LED	Inrush current	1.82 A
		Inrush time	0.12 ms
		Power Consumption	6 W
		Power Factor (Fraction)	0.9
		Cable	Cable 0.2 m without plug
		Number of products on MCB of 16 A type B	143
Light Technical		Temperature	
Luminous Flux	600 lm	Ambient temperature range	-20 to +40 °C
Luminous Efficacy (rated) (Nom)	100.00 lm/W		
Correlated Color Temperature (Nom)	4000 K	Controls and Dimming	
Color rendering index (CRI)	80	Dimmable	No
Light source color	840 neutral white		
Optic type	Beam angle 110°		
Luminaire light beam spread	110°		

Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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	125 mm
Overall width	125 mm
Overall height	40 mm
Overall diameter	125 mm
Dimensions (Height x Width x Depth)	40 x 125 x 125 mm

Approval and Application

Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(IEC4000K, 0.38, 0.38) < 5SDCM
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

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

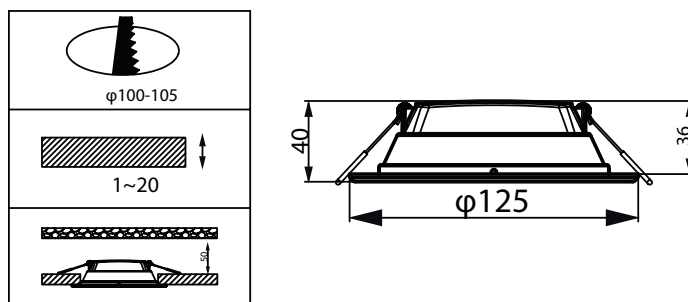
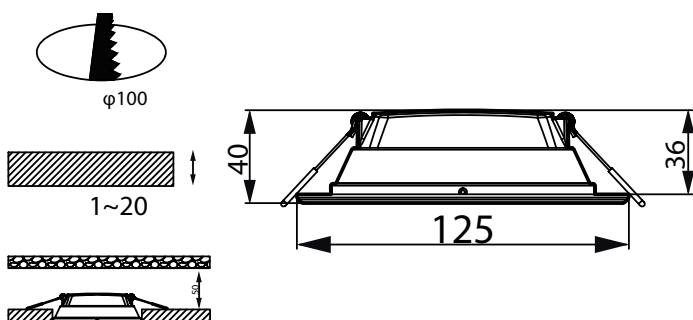
Application Conditions

Suitable for random switching	No
-------------------------------	----

Product Data

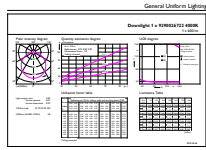
Order product name	DN027B G3 LED6/NW 6W 220-240V D100 RD
Full product name	DN027B G3 LED6/NW 6W 220-240V D100 RD
Full product code	871951434564500
Order code	929002672238
Material Nr. (12NC)	929002672238
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.125 kg
EAN/UPC - Product/Case	8719514345645
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514345652

Dimensional drawing

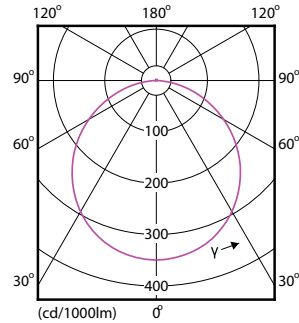


Essential SmartBright LED Downlight

Photometric data

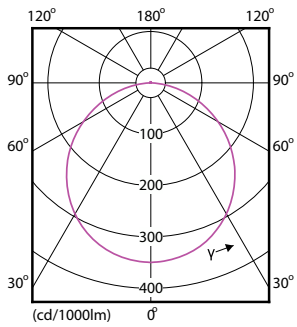


General Parameters 4.1 Philips Lighting B.V. Page 117



General uniform lighting - DN027B G3 LED6/NW 6W 220-240V D100 RD

Light Distribution Diagram - DN027B G3 LED6/NW 6W 220-240V D100 RD



Light Distribution Diagram - DN027B G3 LED6/NW 6W 220-240V D100 RD



Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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	125 mm
Overall width	125 mm
Overall height	40 mm
Overall diameter	125 mm
Dimensions (Height x Width x Depth)	40 x 125 x 125 mm

Approval and Application

Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(IEC6500K, 0.313, 0.337) < 5SDCM
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

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

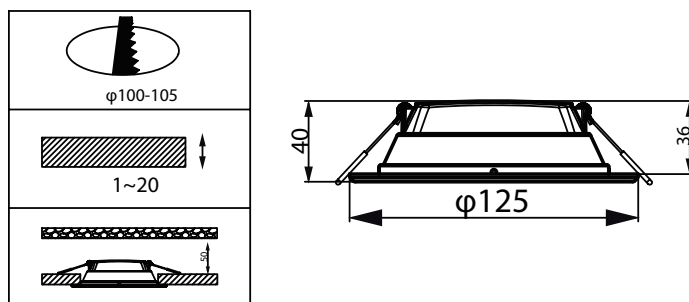
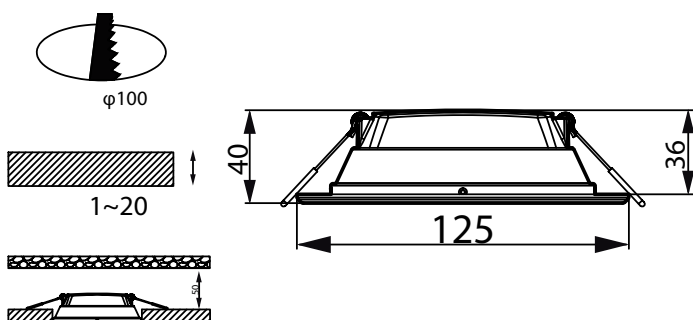
Application Conditions

Suitable for random switching	No
-------------------------------	----

Product Data

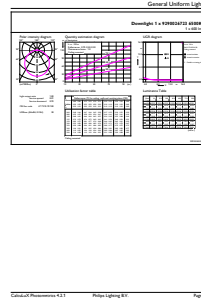
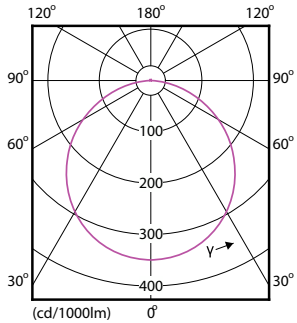
Order product name	DN027B G3 LED6/CW 6W 220-240V D100 RD
Full product name	DN027B G3 LED6/CW 6W 220-240V D100 RD
Full product code	871951434488400
Order code	929002672338
Material Nr. (12NC)	929002672338
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.125 kg
EAN/UPC - Product/Case	8719514344884
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514344891

Dimensional drawing



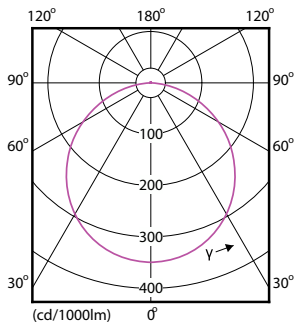
Essential SmartBright LED Downlight

Photometric data



Light Distribution Diagram - DN027B G3 LED6/CW 6W 220-240V D100 RD

General uniform lighting - DN027B G3 LED6/CW 6W 220-240V D100 RD



Light Distribution Diagram - DN027B G3 LED6/CW 6W 220-240V D100 RD





Essential SmartBright LED Downlight

DN027B G3 LED9/WW 9W 220-240V D125 RD

Essential SmartBright LED Downlight, 9 W, 900 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
Light Technical	
Luminous Flux	900 lm
Luminous Efficacy (rated) (Nom)	100.00 lm/W
Correlated Color Temperature (Nom)	3000 K
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	2.25 A
Inrush time	0.101 ms
Power Consumption	9 W
Power Factor (Fraction)	0.9
Cable	Cable 0.2 m without plug
Number of products on MCB of 16 A type B 86	
Temperature	
Ambient temperature range	-20 to +40 °C
Controls and Dimming	
Dimmable	No

Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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	150 mm
Overall width	150 mm
Overall height	42 mm
Overall diameter	150 mm
Dimensions (Height x Width x Depth)	42 x 150 x 150 mm

Approval and Application

Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

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)

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

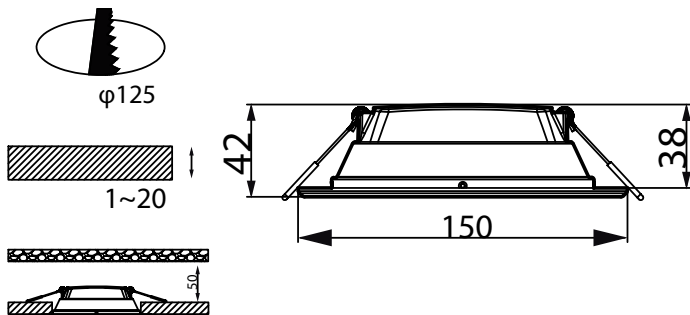
Application Conditions

Suitable for random switching	No
-------------------------------	----

Product Data

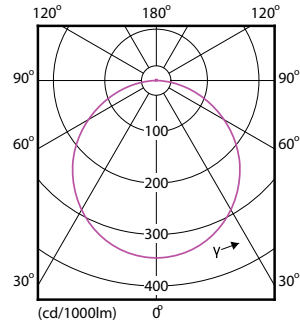
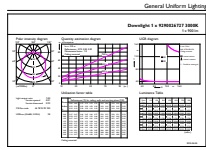
Order product name	DN027B G3 LED9/WW 9W 220-240V D125 RD
Full product name	DN027B G3 LED9/WW 9W 220-240V D125 RD
Full product code	871951434496900
Order code	929002672738
Material Nr. (12NC)	929002672738
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.160 kg
EAN/UPC - Product/Case	8719514344969
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514344976

Dimensional drawing



Essential SmartBright LED Downlight

Photometric data



General uniform lighting - DN027B G3 LED9/WW 9W 220-240V D125 RD

Light Distribution Diagram - DN027B G3 LED9/WW 9W 220-240V D125 RD





Essential SmartBright LED Downlight

DN027B G3 LED9/NW 9W 220-240V D125 RD

Essential SmartBright LED Downlight, 9 W, 950 lm, 4000 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
Light Technical	
Luminous Flux	950 lm
Luminous Efficacy (rated) (Nom)	105.00 lm/W
Correlated Color Temperature (Nom)	4000 K
Color rendering index (CRI)	80
Light source color	840 neutral 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	2.25 A
Inrush time	0.101 ms
Power Consumption	9 W
Power Factor (Fraction)	0.9
Cable	Cable 0.2 m without plug
Number of products on MCB of 16 A type B 86	
Temperature	
Ambient temperature range	-20 to +40 °C
Controls and Dimming	
Dimmable	No

Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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	150 mm
Overall width	150 mm
Overall height	42 mm
Overall diameter	150 mm
Dimensions (Height x Width x Depth)	42 x 150 x 150 mm

Approval and Application

Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(IEC4000K, 0.38, 0.38) < 5SDCM
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

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

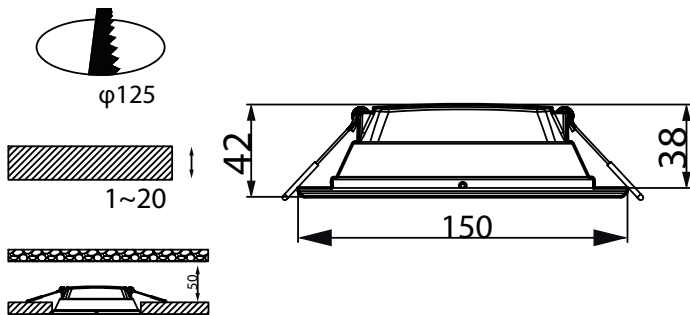
Application Conditions

Suitable for random switching	No
-------------------------------	----

Product Data

Order product name	DN027B G3 LED9/NW 9W 220-240V D125 RD
Full product name	DN027B G3 LED9/NW 9W 220-240V D125 RD
Full product code	871951434498300
Order code	929002672838
Material Nr. (12NC)	929002672838
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.160 kg
EAN/UPC - Product/Case	8719514344983
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514344990

Dimensional drawing





Essential SmartBright LED Downlight

DN027B G3 LED9/CW 9W 220-240V D125 RD

Essential SmartBright LED Downlight, 9 W, 950 lm, 6500 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

Light Technical	
Luminous Flux	950 lm
Luminous Efficacy (rated) (Nom)	105.00 lm/W
Correlated Color Temperature (Nom)	6500 K
Color rendering index (CRI)	80
Light source color	865 cool daylight
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	2.25 A
Inrush time	0.101 ms
Power Consumption	9 W
Power Factor (Fraction)	0.9
Cable	Cable 0.2 m without plug
Number of products on MCB of 16 A type B 86	

Temperature	
Ambient temperature range	-20 to +40 °C

Controls and Dimming	
Dimmable	No

Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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	150 mm
Overall width	150 mm
Overall height	42 mm
Overall diameter	150 mm
Dimensions (Height x Width x Depth)	42 x 150 x 150 mm

Approval and Application

Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(IEC6500K, 0.313, 0.337) < 5SDCM
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

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

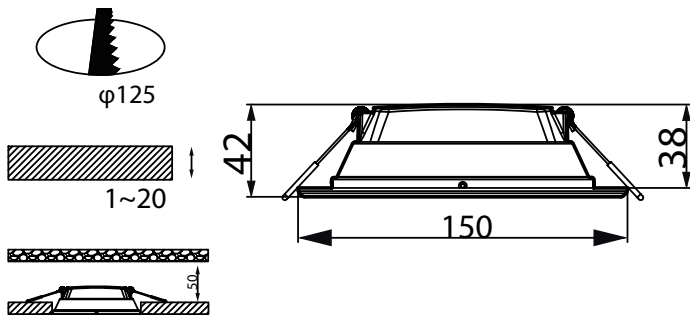
Application Conditions

Suitable for random switching	No
-------------------------------	----

Product Data

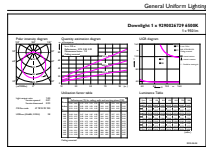
Order product name	DN027B G3 LED9/CW 9W 220-240V D125 RD
Full product name	DN027B G3 LED9/CW 9W 220-240V D125 RD
Full product code	871951434500300
Order code	929002672938
Material Nr. (12NC)	929002672938
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.160 kg
EAN/UPC - Product/Case	8719514345003
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514345010

Dimensional drawing

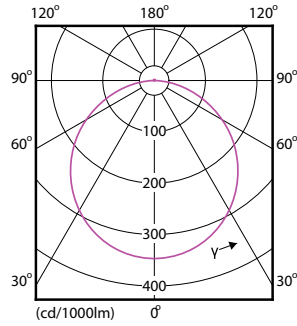


Essential SmartBright LED Downlight

Photometric data



General Parameters 4.1.1 Philips Lighting B.V. Page 117



General uniform lighting - DN027B G3 LED9/CW 9W 220-240V D125 RD

Light Distribution Diagram - DN027B G3 LED9/CW 9W 220-240V D125 RD





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		Operating and Electrical	
Light source replaceable	No	Input Voltage	220 to 240 V
Number of gear units	1 unit	Line Frequency	50 or 60 Hz
Driver included	Yes	Input Frequency	50 or 60 Hz
Lighting Technology	LED	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	
		Temperature	
		Ambient temperature range	-20 to +40 °C
		Controls and Dimming	
		Dimmable	No

Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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

Approval and Application

Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

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)

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

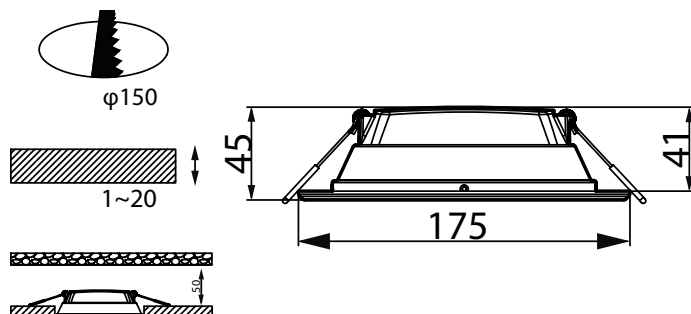
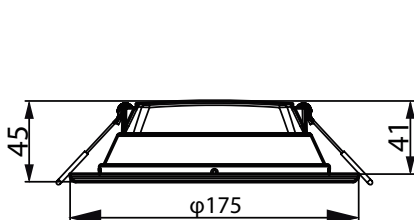
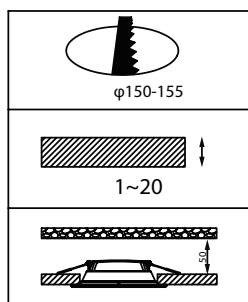
Application Conditions

Suitable for random switching	No
-------------------------------	----

Product Data

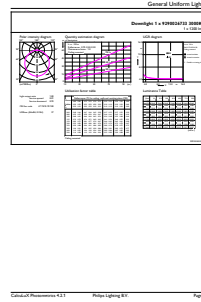
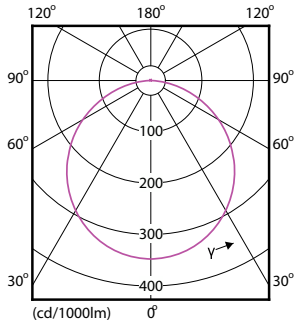
Order product name	DN027B G3 LED12/WW 12W 220-240V D150 RD
Full product name	DN027B G3 LED12/WW 12W 220-240V D150 RD
Full product code	871951434508900
Order code	929002673338
Material Nr. (12NC)	929002673338
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.210 kg
EAN/UPC - Product/Case	8719514345089
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514345096

Dimensional drawing



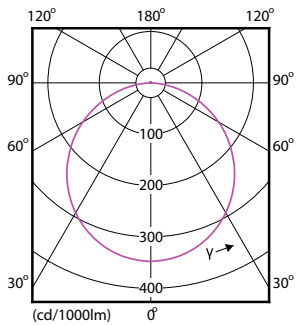
Essential SmartBright LED Downlight

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





Essential SmartBright LED Downlight

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

Essential SmartBright LED Downlight, 12 W, 1300 lm, 4000 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		Operating and Electrical	
Light source replaceable	No	Input Voltage	220 to 240 V
Number of gear units	1 unit	Line Frequency	50 or 60 Hz
Driver included	Yes	Input Frequency	50 or 60 Hz
Lighting Technology	LED	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	
		Temperature	
		Ambient temperature range	-20 to +40 °C
		Controls and Dimming	
		Dimmable	No

Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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

Approval and Application

Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(IEC4000K, 0.38, 0.38) < 5SDCM
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

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

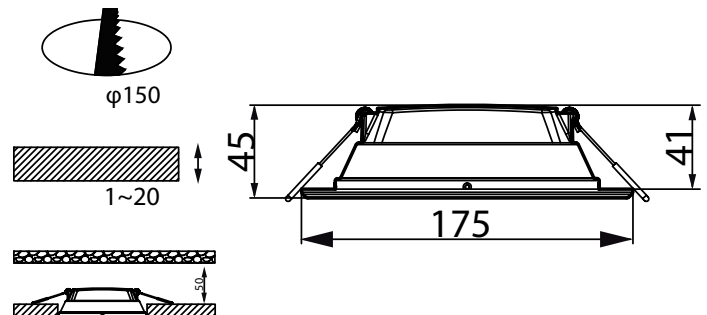
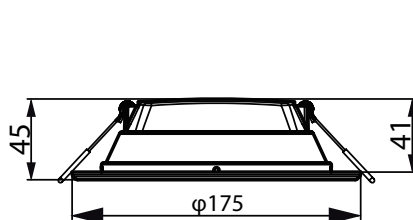
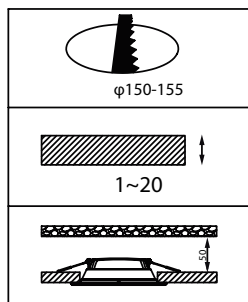
Application Conditions

Suitable for random switching	No
-------------------------------	----

Product Data

Order product name	DN027B G3 LED12/NW 12W 220-240V D150 RD
Full product name	DN027B G3 LED12/NW 12W 220-240V D150 RD
Full product code	871951434510200
Order code	929002673438
Material Nr. (12NC)	929002673438
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.210 kg
EAN/UPC - Product/Case	8719514345102
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514345119

Dimensional drawing





Essential SmartBright LED Downlight

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

Essential SmartBright LED Downlight, 12 W, 1300 lm, 6500 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		Operating and Electrical	
Light source replaceable	No	Input Voltage	220 to 240 V
Number of gear units	1 unit	Line Frequency	50 or 60 Hz
Driver included	Yes	Input Frequency	50 or 60 Hz
Lighting Technology	LED	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	
		Temperature	
		Ambient temperature range	-20 to +40 °C
		Controls and Dimming	
		Dimmable	No

Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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

Approval and Application

Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(IEC6500K, 0.313, 0.337) < 5SDCM
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

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

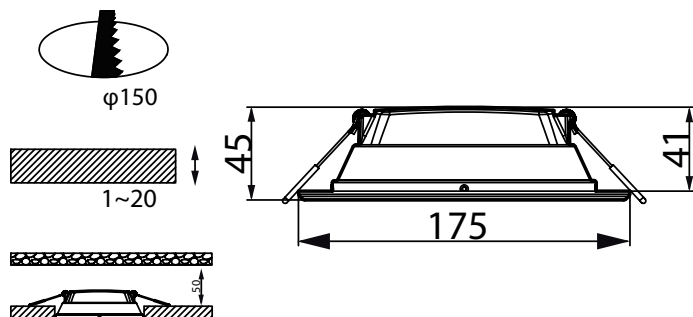
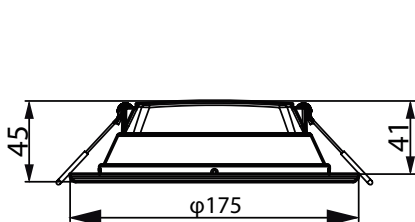
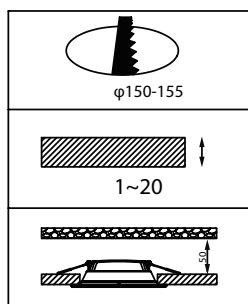
Application Conditions

Suitable for random switching	No
-------------------------------	----

Product Data

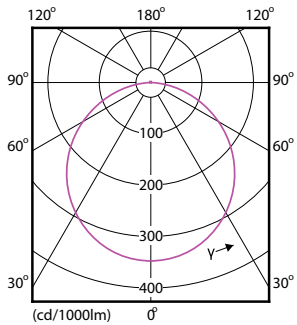
Order product name	DN027B G3 LED12/CW 12W 220-240V D150 RD
Full product name	DN027B G3 LED12/CW 12W 220-240V D150 RD
Full product code	871951434512600
Order code	929002673538
Material Nr. (12NC)	929002673538
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.210 kg
EAN/UPC - Product/Case	8719514345126
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514345133

Dimensional drawing

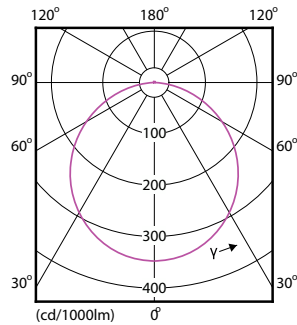


Essential SmartBright LED Downlight

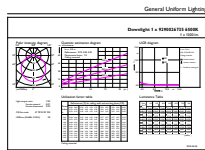
Photometric data



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



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



General Uniform Lighting - DN027B G3 LED12/CW 12W 220-240V D150 RD

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



Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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	200 mm
Overall width	200 mm
Overall height	45 mm
Overall diameter	200 mm
Dimensions (Height x Width x Depth)	45 x 200 x 200 mm

Approval and Application

Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

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)

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

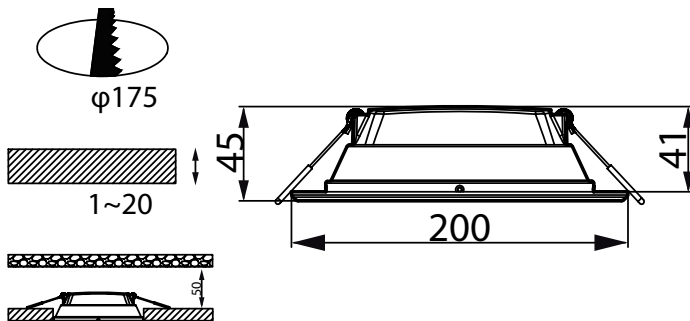
Application Conditions

Suitable for random switching	No
-------------------------------	----

Product Data

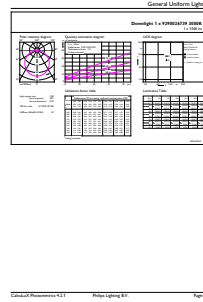
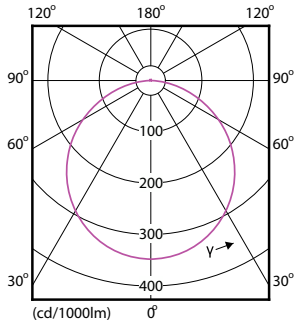
Order product name	DN027B G3 LED15/WW 15W 220-240 D175 RD
Full product name	DN027B G3 LED15/WW 15W 220-240 D175 RD
Full product code	871951434566900
Order code	929002673938
Material Nr. (12NC)	929002673938
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.290 kg
EAN/UPC - Product/Case	8719514345669
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514345676

Dimensional drawing



Essential SmartBright LED Downlight

Photometric data



Light Distribution Diagram - DN027B G3 LED15/WW 15W 220-240 D175 RD

General uniform lighting - DN027B G3 LED15/WW 15W 220-240 D175 RD





Essential SmartBright LED Downlight

DN027B G3 LED15/NW 15W 220-240 D175 RD

Essential SmartBright LED Downlight, 15 W, 1600 lm, 4000 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		Operating and Electrical	
Light source replaceable	No	Input Voltage	220 to 240 V
Number of gear units	1 unit	Line Frequency	50 or 60 Hz
Driver included	Yes	Input Frequency	50 or 60 Hz
Lighting Technology	LED	Inrush current	4.35 A
		Inrush time	0.1 ms
		Power Consumption	15 W
		Power Factor (Fraction)	0.9
		Cable	Cable 0.2 m without plug
		Number of products on MCB of 16 A type B	64
Light Technical		Temperature	
Luminous Flux	1,600 lm	Ambient temperature range	-20 to +40 °C
Luminous Efficacy (rated) (Nom)	106.00 lm/W		
Correlated Color Temperature (Nom)	4000 K	Controls and Dimming	
Color rendering index (CRI)	80	Dimmable	No
Light source color	840 neutral white		
Optic type	Beam angle 110°		
Luminaire light beam spread	110°		

Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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	200 mm
Overall width	200 mm
Overall height	45 mm
Overall diameter	200 mm
Dimensions (Height x Width x Depth)	45 x 200 x 200 mm

Approval and Application

Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(IEC4000K, 0.38, 0.38) < 5SDCM
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

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

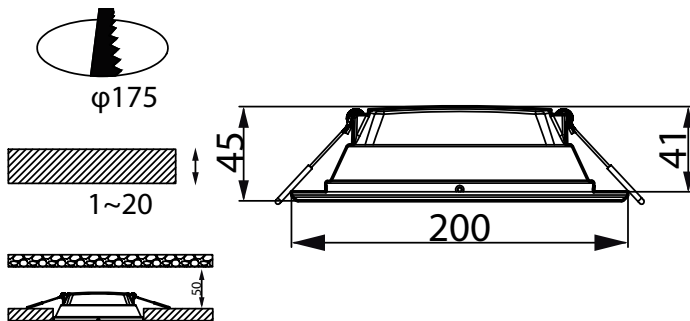
Application Conditions

Suitable for random switching	No
-------------------------------	----

Product Data

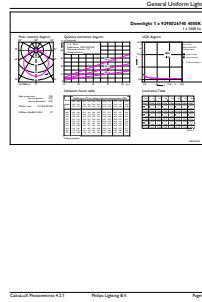
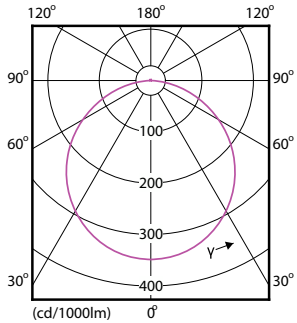
Order product name	DN027B G3 LED15/NW 15W 220-240 D175 RD
Full product name	DN027B G3 LED15/NW 15W 220-240 D175 RD
Full product code	871951434568300
Order code	929002674038
Material Nr. (12NC)	929002674038
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.290 kg
EAN/UPC - Product/Case	8719514345683
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514345690

Dimensional drawing



Essential SmartBright LED Downlight

Photometric data



Light Distribution Diagram - DN027B G3 LED15/NW 15W 220-240 D175 RD

General uniform lighting - DN027B G3 LED15/NW 15W 220-240 D175 RD



Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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	200 mm
Overall width	200 mm
Overall height	45 mm
Overall diameter	200 mm
Dimensions (Height x Width x Depth)	45 x 200 x 200 mm

Approval and Application

Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(IEC6500K, 0.313, 0.337) < 5SDCM
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

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

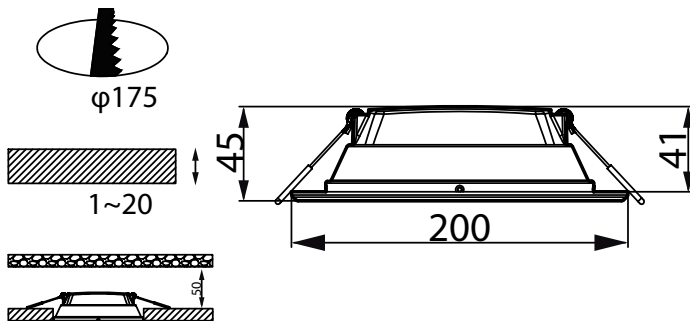
Application Conditions

Suitable for random switching	No
-------------------------------	----

Product Data

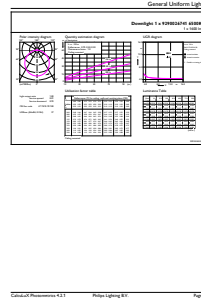
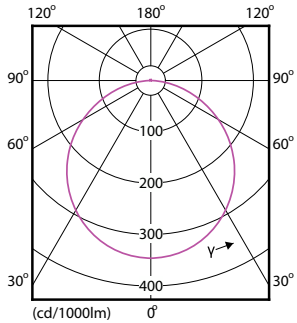
Order product name	DN027B G3 LED15/CW 15W 220-240 D175 RD
Full product name	DN027B G3 LED15/CW 15W 220-240 D175 RD
Full product code	871951434570600
Order code	929002674138
Material Nr. (12NC)	929002674138
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.290 kg
EAN/UPC - Product/Case	8719514345706
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514345713

Dimensional drawing



Essential SmartBright LED Downlight

Photometric data



Light Distribution Diagram - DN027B G3 LED15/CW 15W 220-240 D175 RD

General uniform lighting - DN027B G3 LED15/CW 15W 220-240 D175 RD



Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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	225 mm
Overall width	225 mm
Overall height	45 mm
Overall diameter	225 mm
Dimensions (Height x Width x Depth)	45 x 225 x 225 mm

Approval and Application

Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

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)

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

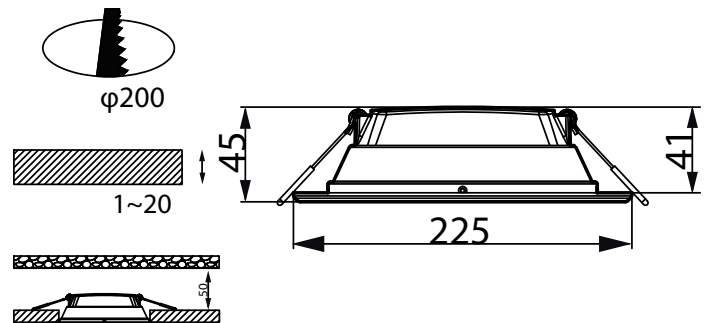
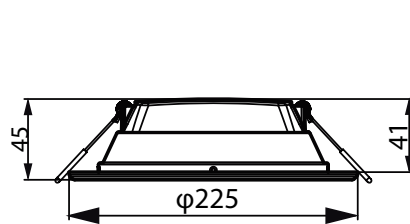
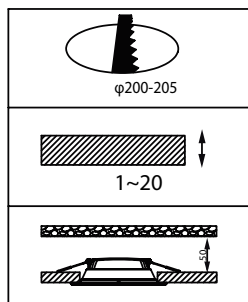
Application Conditions

Suitable for random switching	No
-------------------------------	----

Product Data

Order product name	DN027B G3 LED20/WW 19W 220-240V D200 RD
Full product name	DN027B G3 LED20/WW 19W 220-240V D200 RD
Full product code	871951434520100
Order code	929002674538
Material Nr. (12NC)	929002674538
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.365 kg
EAN/UPC - Product/Case	8719514345201
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514345218

Dimensional drawing

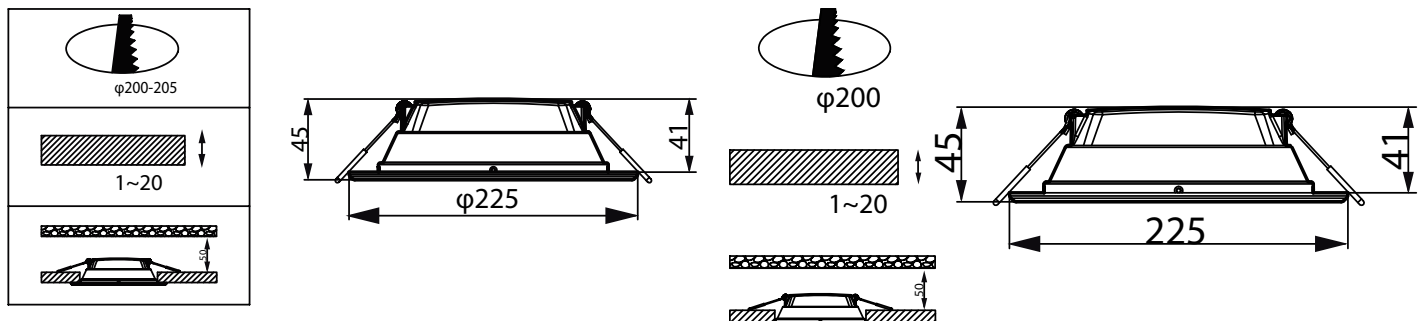


Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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	225 mm
Overall width	225 mm
Overall height	45 mm
Overall diameter	225 mm
Dimensions (Height x Width x Depth)	45 x 225 x 225 mm
Approval and Application	
Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

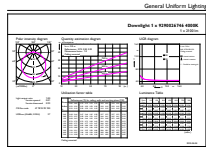
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%
Initial chromaticity	(IEC4000K, 0.38, 0.38) < 5SDCM
Power consumption tolerance	+/-10%
Over Time Performance (IEC Compliant)	
Driver failure rate at 5000 h	0.012 %
Median useful life L70B50	30,000 hour(s)
Application Conditions	
Suitable for random switching	No
Product Data	
Order product name	DN027B G3 LED20/NW 19W 220-240V D200 RD
Full product name	DN027B G3 LED20/NW 19W 220-240V D200 RD
Full product code	871951434522500
Order code	929002674638
Material Nr. (12NC)	929002674638
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.365 kg
EAN/UPC - Product/Case	8719514345225
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514345232

Dimensional drawing

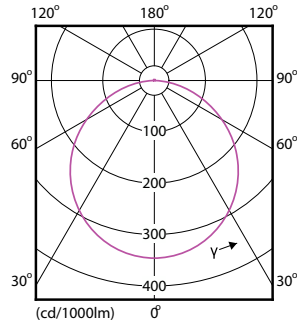


Essential SmartBright LED Downlight

Photometric data

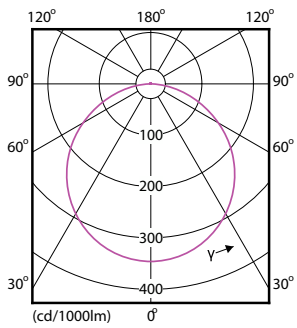


General Parameters 4.1 Philips Lighting B.V. Page 10



General uniform lighting - DN027B G3 LED20/NW 19W 220-240V D200 RD

Light Distribution Diagram - DN027B G3 LED20/NW 19W 220-240V D200 RD



Light Distribution Diagram - DN027B G3 LED20/NW 19W 220-240V D200 RD

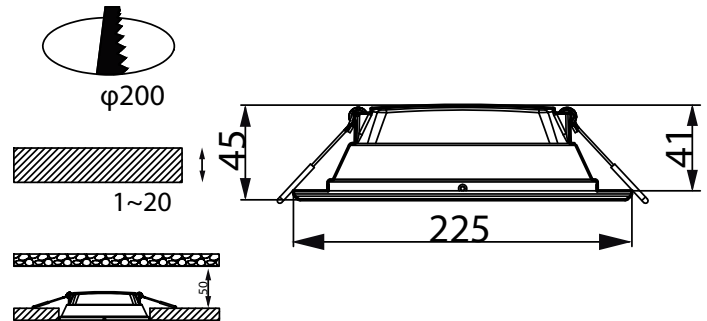
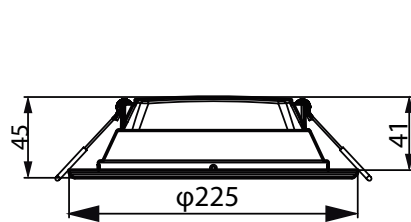
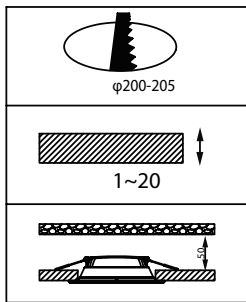


Essential SmartBright LED Downlight

Driver/power unit/transformer	Power supply unit (On/Off)
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	225 mm
Overall width	225 mm
Overall height	45 mm
Overall diameter	225 mm
Dimensions (Height x Width x Depth)	45 x 225 x 225 mm
Approval and Application	
Ingress protection code	IP20/40 [Finger-protected;Wire-protected]
Mech. impact protection code	IK03 [0.3 J]
Protection class IEC	Safety class II
Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
Warranty period	3 years
EU RoHS compliant	Yes

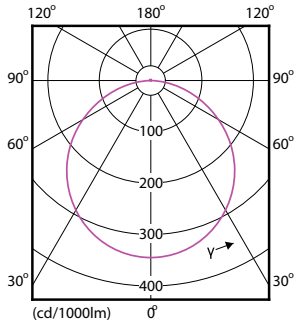
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%
Initial chromaticity	(IEC6500K, 0.313, 0.337) < 5SDCM
Power consumption tolerance	+/-10%
Over Time Performance (IEC Compliant)	
Driver failure rate at 5000 h	0.012 %
Median useful life L70B50	30,000 hour(s)
Application Conditions	
Suitable for random switching	No
Product Data	
Order product name	DN027B G3 LED20/CW 19W 220-240V D200 RD
Full product name	DN027B G3 LED20/CW 19W 220-240V D200 RD
Full product code	871951434524900
Order code	929002674738
Material Nr. (12NC)	929002674738
Numerator - Quantity Per Pack	1
Net Weight (Piece)	0.365 kg
EAN/UPC - Product/Case	8719514345249
Numerator - Packs per outer box	24
EAN/UPC - Case	8719514345256

Dimensional drawing

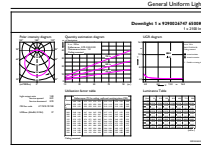


Essential SmartBright LED Downlight

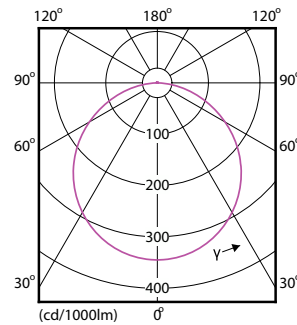
Photometric data



Light Distribution Diagram - DN027B G3 LED20/CW 19W 220-240V D200 RD



General uniform lighting - DN027B G3 LED20/CW 19W 220-240V D200 RD



Light Distribution Diagram - DN027B G3 LED20/CW 19W 220-240V D200 RD

