



CoreLine Downlight gen5

DN142B 20S/840 PSD-E UGR19

CoreLine Downlight gen5, 20 W, 2250 lumen, 4000 K, CRI≥80, DALI, Frosted

Philips CoreLine Downlight delivers on the CoreLine promise of innovative, easy to use and high-quality recessed downlights. The CoreLine Downlight range is suitable for one-to-one conventional luminaire replacements, with an attractive TCO that helps your customers make the switch to LED. These recessed indoor downlights offer uniform light distribution for use in general lighting and office applications (UGR 19). They also deliver instant energy savings and have a much longer lifetime, creating a solution that's environmentally friendly and real value-for-money. CoreLine DN142B recessed downlights are easy to install thanks to their standard cut-out size and push-in connectors. An Interact ready option with integrated wireless communications is also available in this family, which can be used with Interact gateways, sensors and software.

Warnings and Safety

- Do not apply excessive force to the cable & DC connector, make sure the connector clip is locked before the power is on.

Product data

General Information		Flammability mark	
Number of gear units	1 unit		For mounting on normally flammable surfaces
Driver included	Yes	ENEC mark	-
Product family code	DN142B [CoreLine Downlight gen5]	Glow-wire test	Temperature 650 °C, duration 30 s
Value ladder	Performance	EU RoHS compliant	Yes
CE mark	CE mark		
Warranty period	5 years		

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Light Technical

Luminous Flux	2,250 lumen
Saturated Red (R9)	<50
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	113 lm/W
Color rendering index (CRI)	≥80
Stroboscopic effect value (SVM)	1
Beam angle of light source	- degree(s)
Light source color	840 neutral white
Optic type	Facetted reflector
Luminaire light beam spread	60°
Unified glare rating CEN	19

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Initial CLO power consumption	- W
Average CLO power consumption	- W
Inrush current	10 A
Inrush time	0.002 ms
Power Consumption	20 W
Power Factor (Fraction)	0.95
Connection	-
Cable	2 cables 0.15m with connectors 2-pole
Number of products on MCB of 16 A type B	100

Temperature

Ambient temperature range	-20 to +40 °C
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Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface external
Control interface	DALI
Constant light output	No

Mechanical and Housing

Housing Material	Polycarbonate
Reflector material	Polycarbonate aluminum coated
Optic material	Polycarbonate
Optical cover material	Polycarbonate

Fixation material	-
Housing Color	White RAL9010
Optical cover finish	Frosted
Overall height	107 mm
Overall diameter	216 mm

Approval and Application

Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK02 [0.2 J standard]
Sustainability rating	-
Protection class IEC	Safety class II
Photobiological risk	Photobiological risk group 1 @ 200mm to EN62471

Initial Performance (IEC Compliant)

Luminous flux tolerance	-10% / +10%
Initial chromaticity	(0.380,0.377) SDCM≤5
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life	5 %
50000 h	
Lumen maintenance at median useful life*	L80
50000 h	

Application Conditions

Performance ambient temperature Tq	25 °C
Suitable for random switching	Yes

Product Data

Full product code	872016910901800
Order product name	DN142B 20S/840 PSD-E UGR19
Order code	910505103601
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	1
Material Nr. (12NC)	910505103601
Full product name	DN142B 20S/840 PSD-E UGR19
EAN/UPC - Case	8720169109018
EAN/UPC - Product/Case	8720169109018

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Dimensional drawing

