



CoreLine Downlight gen5

DN142B 20S/830 PSD-E WR ELB3

CoreLine Downlight gen5, 24.5 W, D200 mm, 2350 lm, 3000 K, DALI, White reflector, IP20, ELB3h

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		Sustainability rating	
Number of gear units	1 unit	-	
Driver included	Yes	Light Technical	
Service tag	Yes	Luminous Flux	2,350 lm
Value ladder	Performance	Saturated Red (R9)	<50
Warranty period	5 years	Correlated Color Temperature (Nom)	3000 K
		Luminous Efficacy (rated) (Nom)	96 lm/W

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Color rendering index (CRI)	>80
Beam angle of light source	- degree(s)
Light source color	830 warm white
Optic type	White reflector perforated without louver
Luminaire light beam spread	84°
Unified glare rating CEN	25

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	24.5 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
Suitable for random switching	Yes
Protection class IEC	Safety class II
Total harmonic distortion	35 %

Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface external
Control interface	DALI
Constant light output	No
DALI Standard	DALI-2™

Mechanical and Housing

Housing Material	Polycarbonate
Reflector material	Polycarbonate
Optic material	Polycarbonate
Optical cover material	Polycarbonate
Fixation material	-
Housing Color	White
Optical cover finish	-
Reflector Finish	White reflector
Overall height	105 mm
Overall diameter	216 mm
Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK02 [0.2 J standard]
Net Weight (Piece)	1.390 kg

Emergency Operation

Rated duration of the emergency lighting (when fully charged)	3 hour(s)
Additional max. power consumption when emergency battery is charging	4.5 W
Central Emergency	No
Emergency lighting	Emergency lighting 3 hours duration basic version

Approval and Application

Glow-wire test	Temperature 650 °C, duration 30 s
Flammability mark	For mounting on normally flammable surfaces
CE mark	Yes
ENEC mark	-
Photobiological risk	Photobiological risk group 1 @ 200mm to EN62471
EU RoHS compliant	Yes
Performance ambient temperature Tq	25 °C
Stroboscopic effect visibility measure (SVM)	1
Ambient temperature range	-20 to +40 °C

Initial Performance (IEC Compliant)

Luminous flux tolerance	-10% / +10%
Initial chromaticity	(0.435,0.404) 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	

Product Data

Order product name	DN142B 20S/830 PSD-E WR ELB3
Full product name	DN142B 20S/830 PSD-E WR ELB3
Full product code	872016910907000
Order code	910505103607
Material Nr. (12NC)	910505103607
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169109070
Numerator - Packs per outer box	1
EAN/UPC - Case	8720169109070
Product family code	DN142B [CoreLine Downlight gen5]

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Dimensional drawing

