



CoreLine Downlight gen5

DN142B 20S/840 PSD-E UGR19 ELB3

CoreLine Downlight gen5, 24.5 W, D200 mm, 2000 lm, 4000 K, DALI, UGR19, Faceted 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 that the connector clip is locked before turning the power on.

Product data

General Information		Serviceability class	
Number of gear units	Unit	Class C, luminaire without serviceable parts, not serviceable	
Driver included	Yes	Warranty period	
Service Tag	Yes	5 years	
Mounting		Sustainability rating	
Recessed		Unclassified	
Value ladder			
Performance			

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Light Technical	
Luminous Flux	2,000 lm
Saturated Red (R9)	<50
Correlated Colour Temperature (Nom)	4000 K
Luminous efficacy (rated) (nom.)	113 lm/W
Colour rendering index (CRI)	>80
Beam angle of light source	- degree(s)
Light source colour	840 neutral white
Optic type	Faceted 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	24.5 W
Power Factor (Fraction)	0.95
Connection	-
Cable	2 cables 0.15 m with connectors 2-pole
Number of products on MCB (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	Aluminium and polycarbonate
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	-
Housing Colour	White
Optical cover/lens finish	-
Reflector finish	Faceted 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 h
Additional max. power consumption when emergency battery is charging	4.5 W
Central Emergency	No
Emergency lighting	Emergency lighting 3-hours duration basic version
Emergency function testing method	Manual/Test button
Emergency lighting operation mode	Maintained

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	1
Ambient temperature range	-20 to +40 °C

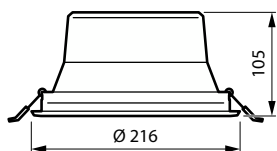
Initial Performance (IEC Compliant)	
Luminous flux tolerance	-10% / +10%
Initial chromaticity	(0.380,0.377) SDCM≤5
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)	
Control gear failure rate at median useful life 50,000 h	5 %
Lumen maintenance (EN-IEC 62722-2-1) at median useful life* 50000 h	L80

Product Data	
Order product name	DN142B 20S/840 PSD-E UGR19 ELB3
Full product name	DN142B 20S/840 PSD-E UGR19 ELB3
Full EOC	872016910910000
Order code	910505103610
Material no. (12 NC)	910505103610
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8720169109100
Numerator – packs per outer box	1
EAN/UPC – Case	8720169109100
Product family code	DN142B [CoreLine Downlight gen5]

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Dimensional drawing



Photometric data



Polar Normal (separate) - DN142BI - 910505103610

