



CoreLine Downlight gen5

DN142B 20S/840 PSD-E WR IP54

CoreLine Downlight gen5, 20.5 W, D200 mm, 2000 lm, 4000 K, DALI, White reflector, IP20/54, EL-ready

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		Warranty period	
Number of gear units	Unit	5 years	
Driver included	Yes	Light Technical	
Service Tag	Yes	Luminous Flux	2,000 lm
Mounting	Recessed	Saturated Red (R9)	<50
Value ladder	Performance	Correlated Colour Temperature (Nom)	4000 K

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Luminous efficacy (rated) (nom.)	116 lm/W
Colour rendering index (CRI)	>80
Beam angle of light source	- degree(s)
Light source colour	840 neutral white
Optic type	White reflector perforated without louvre
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	20.5 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	Polycarbonate
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	-
Housing Colour	White
Optical cover/lens finish	-
Reflector finish	White reflector
Overall height	105 mm
Overall diameter	216 mm
Ingress protection code	IP20/54 [Finger-protected; dust accumulation-protected, splash-proof]
Mech. impact protection code	IK02 [0.2 J standard]
Net Weight (Piece)	0.800 kg

Emergency Operation

Central Emergency	No
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Emergency lighting	Emergency lighting ready (through compatible battery kit accessory)
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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

Sustainability Data

Sustainability rating	Unclassified
Repair class	Repair Class D, this product is not designed to be repaired.
Embedded carbon (A1-A3)	4.67 kg CO ₂ e
Product non-virgin material ratio	32 %
Recyclable the content ratio of the finished product	32.9 %
GWP total B6 (kg CO ₂ eq) Declared Unit	Please calculate using your local energy mix value: Power Declared Unit (kW) * Service life (hrs) Declared Unit * Energy mix (kg CO ₂ eq / kWh)
GWP total B6 (kg CO ₂ eq) Functional Unit	Please calculate using your local energy mix value: POWER DECLARED UNIT (kW) * 1000 (lm) / LUMEN OUTPUT DECLARED UNIT (lm) * 35000 (hrs) * ENERGY MIX (kg CO ₂ eq / kWh)

Product Data

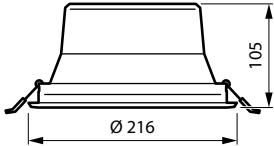
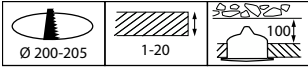
Order product name	DN142B 20S/840 PSD-E WR IP54
Full product name	DN142B 20S/840 PSD-E WR IP54
Full EOC	872016910900100
Order code	910505103599
Material no. (12 NC)	910505103599
Numerator – quantity per pack	1

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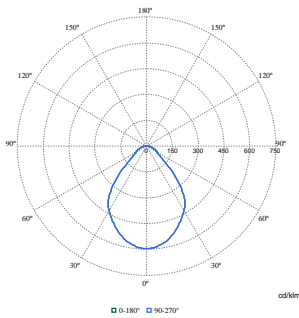
EAN/UPC – Product/Case	8720169109001
Numerator – packs per outer box	1
EAN/UPC - Case	8720169109001

Product family code	DN142B [CoreLine Downlight gen5]
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Dimensional drawing



Photometric data



Polar Normal (separate) - DN142BI - 910505103599

