CoreLine Downlight

DN140B LED20S/840 PSD-E WR

CoreLine Downlight, 20.5 W, D200 mm, 2200 lm, 4000 K, DALI, White reflector, IP20

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 customers to make the switch to LED. These recessed downlights create uniform light distribution for use in general lighting applications. They also deliver instant energy savings and have a much longer lifetime, creating a real value-for-money and environmentally-friendly solution. CoreLine DN140B 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 available in this family, which can be used with InterAct gateways, sensors and software.

Product data

General Information

Light source replaceable	No
Number of gear units	1 unit
Driver included	Yes
Remarks	*-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value.
Service tag	Yes
Product family code	DN140B [Coreline Downlight Gen4]

Lighting Technology	LED
Value ladder	Performance
CE mark	Yes
Warranty period	5 years
Flammability mark	For mounting on normally flammable surfaces
ENEC mark	–
Glow-wire test	Temperature 850 °C, duration 30 s
EU RoHS compliant	Yes

Light Technical

Luminous Flux	2,200 lm
Saturated Red (R9)	<50

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Correlated Color Temperature (Nom)	4000 K		Optical cover finish	–
Luminous Efficacy (rated) (Nom)	107 lm/W		Reflector Finish	White reflector
Color rendering index (CRI)	≥80		Overall height	105 mm
Flickering value (PstLM) – Flickering value as per EN 61000-3-3	1		Overall diameter	216 mm
Stroboscopic effect visibility measure (SVM)	0.4			
Beam angle of light source	120 degree(s)		**Approval and Application**	
Light source color	840 neutral white		Ingress protection code	IP20 [Finger-protected]
Optic type	–		Mech. impact protection code	IK02 [0.2 J standard]
Luminaire light beam spread	60°		Sustainability rating	–
Unified glare rating CEN	25		Protection class IEC	Safety class I
			Photobiological risk	Photobiological risk group 1 @200mm to EN62778

Operating and Electrical

Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Initial CLO power consumption	– W
Average CLO power consumption	– W
End CLO power consumption	– W
Inrush current	20.4 A
Inrush time	0.195 ms
Power Consumption	20.5 W
Power Factor (Fraction)	0.95
Connection	Push-in connector and pull relief
Cable	–
Number of products on MCB of 16 A type B	24

Temperature

Ambient temperature range	–20 to +40 °C

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	Aluminium
Reflector material	Polycarbonate
Optic material	Polycarbonate
Optical cover material	–
Fixation material	Steel
Housing Color	White

Initial Performance (IEC Compliant)

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

Over Time Performance (IEC Compliant)

Driver failure rate at 5000 h	1 %
Control gear failure rate at median useful life 50000 h	5 %
Lumen maintenance at median useful life* 50000 h	L70

Application Conditions

Performance ambient temperature Tq	25 °C
Maximum dim level	1%
Suitable for random switching	Yes

Product Data

Order product name	DN140B LED20S/840 PSD-E WR
Full product name	DN140B LED20S/840 PSD-E WR
Full product code	871016332587300
Order code	911401631705
Material Nr. (12NC)	911401631705
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	8710163325873
Numerator – Packs per outer box	1
EAN/UPC – Case	8710163325873

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Dimensional drawing

www.lighting.philips.com

2024, March 18 – data subject to change