PHILIPS Lighting



CoreLine Downlight

DN140B LED20S/840 PSD-E WR

DN140B | Coreline Downlight Gen4 - 840 neutral white - Power supply unit with DALI interface - White reflector without louver -Push-in connector and pull relief - IP20 | Finger-protected

CoreLine Downlight delivers on the CoreLine promise of innovative, easy to use and high-quality recessed downlights. The CoreLine Downlight range is suitable for oneto-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		Product family code
Light source replaceable	No	Lighting Technology
Number of gear units	1 unit	Value ladder
Driver included	Yes	
Remarks	*-Per Lighting Europe guidance paper	Light Technical
	"Evaluating performance of LED based	Luminous Flux
	luminaires - January 2018": statistically	Saturated Red (R9)
	there is no relevant difference in lumen	Correlated Color Temperature (Nom)
	maintenance between B50 and for example	Luminous Efficacy (rated) (Nom)
	B10. Therefore, the median useful life (B50)	Color rendering index (CRI)
	value also represents the B10 value.	Beam angle of light source
Service tag	Yes	Light source color

DN140B [Coreline Downlight Gen4]

LED Performance

2,200 lumen <50

4000 K

107 lm/W ≥80 120 degree(s) 840 neutral white

CoreLine Downlight

Optic type	-
Luminaire light beam spread	90°
Unified glare rating CEN	25

Operating and Electrical

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

Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK02 [0.2 J standard]
Sustainability rating	-
Protection class IEC	Safety class I
Glow-wire test	Temperature 850 °C, duration 5 s
Flammability mark	For mounting on normally flammable
	surfaces
CE mark	Yes
ENEC mark	-
Warranty period	5 years
EU RoHS compliant	Yes
Initial Performance (IEC Compliant))
Luminous flux tolerance	+/-10%
Initial chromaticity	(0.380,0.377) SDCM≦5
Power consumption tolerance	+/-10%

Approval and Application

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
Fixation material	Steel
Housing Color	White
Reflector Finish	White reflector
Overall length	0 mm
Overall width	0 mm
Overall height	108 mm
Overall diameter	216 mm
Dimensions (Height x Width x Depth)	108 x 0 x 0 mm

Control gear failure rate at median useful	5 %
life 50000 h	
Lumen maintenance at median useful life*	L70
50000 h	
Application Conditions	
Performance ambient temperature Tq	25 °C
Maximum dim level	1%
Suitable for random switching	Yes

1%

Over Time Performance (IEC Compliant)

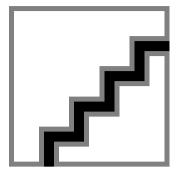
Driver failure rate at 5000 h

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



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Dimensional drawing





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