



CoreLine Downlight

DN140B LED20S/840 PSU C PI6

- 840 neutral white - Power supply unit (ON/OFF) - High-gloss mirror - Push-in connector 6-pole - 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 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
Lighting Technology	LED

Value ladder	Performance
Light Technical	
Luminous Flux	2,200 lumen
Saturated Red (R9)	<50
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	111 lm/W
Color rendering index (CRI)	≥80
Flickering value (PstLM)	1
Stroboscopic effect value (SVM)	0.4
Beam angle of light source	120 degree(s)
Light source color	840 neutral white
Optic type	-

Datasheet, 2023, May 22 data subject to change

CoreLine Downlight

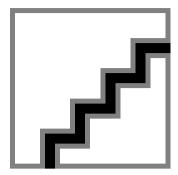
Luminaire light beam spread 60° Unified glare rating CEN 22 Operating and Electrical Input Voltage 220-240 V Line Frequency 50 to 60 Hz Input Frequency 50 to 60 Hz Initial CLO power consumption - W Average CLO power consumption - W Power Consumption 19 W End CLO power consumption - W Inrush current 2.2 A Inrush time 0.045 ms Power Factor (Fraction) 0.95 Connection Push-in connector 6-pole Cable - Number of products on MCB of 16 A type B 24 Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate Polycarbonate Pixation material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens material Polycarbonate Reflector Finish High-gloss reflector Overall length 0 mm Overall length 108 mm Overall length 108 mm Overall height x Width x Depth) 108 x 0 x 0 mm	Unified glare rating CEN Operating and Electrical Input Voltage Line Frequency Input Frequency Initial CLO power consumption Average CLO power consumption Power Consumption End CLO power consumption Inrush current Inrush time Power Factor (Fraction) Connection Cable	220-240 V 50 to 60 Hz 50 to 60 Hz - W - W
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 19 W End CLO power consumption - W Inrush current 22 A Inrush time 0.045 ms Power Factor (Fraction) 0.95 Connection Push-in connector 6-pole Cable - Number of products on MCB of 16 A type B 24 Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate Optic material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length 0 mm Overall length 0 mm Overall length 108 mm Overall length 108 mm	Operating and Electrical Input Voltage Line Frequency Input Frequency Initial CLO power consumption Average CLO power consumption Power Consumption End CLO power consumption Inrush current Inrush time Power Factor (Fraction) Connection Cable	220-240 V 50 to 60 Hz 50 to 60 Hz - W - W
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 19 W End CLO power consumption - W Inrush current 2.2 A Inrush time 0.045 ms Power Factor (Fraction) 0.95 Connection Push-in connector 6-pole Cable - Number of products on MCB of 16 A type B 24 Temperature Ambient temperature range -20 to +40 ℃ Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length 0 mm Overall length 108 mm	Input Voltage Line Frequency Input Frequency Initial CLO power consumption Average CLO power consumption Power Consumption End CLO power consumption Inrush current Inrush time Power Factor (Fraction) Connection	50 to 60 Hz 50 to 60 Hz - W - W
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 19 W End CLO power consumption -W Inrush current 22 A Inrush time 0.045 ms Power Factor (Fraction) 0.95 Connection Push-in connector 6-pole 24 Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall width O mm Overall length 108 mm	Input Voltage Line Frequency Input Frequency Initial CLO power consumption Average CLO power consumption Power Consumption End CLO power consumption Inrush current Inrush time Power Factor (Fraction) Connection	50 to 60 Hz 50 to 60 Hz - W - W
Input Frequency 50 to 60 Hz Input Frequency 50 to 60 Hz Initial CLO power consumption - W Average CLO power consumption 19 W End CLO power consumption - W Inrush current 22 A Inrush time 0.045 ms Power Factor (Fraction) 0.95 Connection Push-in connector 6-pole Cable - Number of products on MCB of 16 A type B 24 Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate Optic material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length Openal Length Overall diameter 216 mm	Line Frequency Input Frequency Initial CLO power consumption Average CLO power consumption Power Consumption End CLO power consumption Inrush current Inrush time Power Factor (Fraction) Connection Cable	50 to 60 Hz 50 to 60 Hz - W - W
Input Frequency Initial CLO power consumption Average CLO power consumption - W Power Consumption In y W End CLO power consumption - W Inrush current 2 2 A Inrush time 0 .045 ms Power Factor (Fraction) O.95 Connection Push-in connector 6-pole Cable - Number of products on MCB of 16 A type B Abient temperature Ambient temperature range - 20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate Optic material Polycarbonate Fixation material Housing Color White Optical cover/lens material Reflector Finish High-gloss reflector Overall length Overall diameter	Input Frequency Initial CLO power consumption Average CLO power consumption Power Consumption End CLO power consumption Inrush current Inrush time Power Factor (Fraction) Connection Cable	50 to 60 Hz - W - W
Initial CLO power consumption - W Average CLO power consumption - W Power Consumption 19 W End CLO power consumption - W Inrush current 2.2 A Inrush time 0.045 ms Power Factor (Fraction) 0.95 Connection Push-in connector 6-pole Cable - Number of products on MCB of 16 A type B 24 Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate Optic material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens material Fixation material Reflector Finish High-gloss reflector Overall length O mm	Initial CLO power consumption Average CLO power consumption Power Consumption End CLO power consumption Inrush current Inrush time Power Factor (Fraction) Connection Cable	- W - W 19 W
Average CLO power consumption - W Power Consumption 19 W End CLO power consumption - W Inrush current 22 A Inrush time 0.045 ms Power Factor (Fraction) 0.95 Connection Push-in connector 6-pole Cable Number of products on MCB of 16 A type B 24 Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate Reflector material Polycarbonate Optic material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens material Fixation material Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm	Average CLO power consumption Power Consumption End CLO power consumption Inrush current Inrush time Power Factor (Fraction) Connection Cable	- W 19 W
Power Consumption 19 W End CLO power consumption -W Inrush current 2.2 A Inrush time 0.045 ms Power Factor (Fraction) 0.95 Connection Push-in connector 6-pole Cable - Number of products on MCB of 16 A type B 24 Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate Optic material Polycarbonate Optic material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall width O mm Overall height 108 mm Overall height 108 mm Overall diameter 216 mm	Power Consumption End CLO power consumption Inrush current Inrush time Power Factor (Fraction) Connection Cable	19 W
Inrush current 2.2 A Inrush time 0.045 ms Power Factor (Fraction) 0.95 Connection Push-in connector 6-pole Cable - Number of products on MCB of 16 A type B 24 Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall width O mm Overall height 108 mm Overall diameter 216 mm	End CLO power consumption Inrush current Inrush time Power Factor (Fraction) Connection Cable	
Inrush time 0.045 ms Power Factor (Fraction) 0.95 Connection Push-in connector 6-pole Cable - Number of products on MCB of 16 A type B 24 Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate Optic material Polycarbonate Uptical cover/lens material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall width O mm Overall width 108 mm Overall diameter 216 mm	Inrush current Inrush time Power Factor (Fraction) Connection Cable	
Inrush time 0.045 ms Power Factor (Fraction) 0.95 Connection Push-in connector 6-pole Cable - Number of products on MCB of 16 A type B 24 Temperature Ambient temperature range -20 to +40 ℃ Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate Optic material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall width O mm Overall diameter 216 mm	Inrush time Power Factor (Fraction) Connection Cable	- W
Power Factor (Fraction) Connection Push-in connector 6-pole Cable - Number of products on MCB of 16 A type B Z4 Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Control interface - Constant light output No Mechanical and Housing Housing Material Reflector material Polycarbonate Reflector material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish Reflector Finish Overall length Overall length Overall height Overall diameter 216 mm	Power Factor (Fraction) Connection Cable	2.2 A
Connection Push-in connector 6-pole Cable - Number of products on MCB of 16 A type B 24 Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate Optic material Polycarbonate Fixation material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall width O mm Overall height 108 mm Overall diameter 216 mm	Connection Cable	0.045 ms
Cable Number of products on MCB of 16 A type B 24 Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall height 108 mm Overall diameter 216 mm	Cable	0.95
Number of products on MCB of 16 A type B 24 Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall height 108 mm Overall diameter 216 mm		Push-in connector 6-pole
Temperature Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall height 108 mm Overall diameter 216 mm	Number of products on MCD of 10 A time D	-
Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall height Overall diameter 216 mm	Number of products on MCB of 16 A type B	24
Ambient temperature range -20 to +40 °C Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall height Overall diameter 216 mm		
Controls and Dimming Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall width O mm Overall height 108 mm Overall diameter 216 mm	Temperature	
Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall height 108 mm Overall diameter 216 mm	Ambient temperature range	-20 to +40 °C
Dimmable No Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall height 108 mm Overall diameter 216 mm		
Driver/power unit/transformer Power supply unit (ON/OFF) Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall width O mm Overall height 108 mm Overall diameter 216 mm	Controls and Dimming	
Control interface - Constant light output No Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall width O mm Overall height 108 mm Overall diameter 216 mm	Dimmable	No
Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall height 108 mm Overall diameter 216 mm	Driver/power unit/transformer	Power supply unit (ON/OFF)
Mechanical and Housing Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall width O mm Overall height 108 mm Overall diameter 216 mm	Control interface	-
Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall width O mm Overall height 108 mm Overall diameter 216 mm	Constant light output	No
Housing Material Polycarbonate Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall width O mm Overall height 108 mm Overall diameter 216 mm		
Reflector material Polycarbonate aluminum coated Optic material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length 0 mm Overall width 0 mm Overall height 108 mm Overall diameter 216 mm	Mechanical and Housing	
Optic material Polycarbonate Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length 0 mm Overall width 0 mm Overall height 108 mm Overall diameter 216 mm	Housing Material	Polycarbonate
Optical cover/lens material Polycarbonate Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length 0 mm Overall width 0 mm Overall height 108 mm Overall diameter 216 mm	Reflector material	Polycarbonate aluminum coated
Fixation material Steel Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall width O mm Overall height 108 mm Overall diameter 216 mm	Optic material	Polycarbonate
Housing Color White Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length O mm Overall width O mm Overall height 108 mm Overall diameter 216 mm	Optical cover/lens material	Polycarbonate
Optical cover/lens finish Frosted Reflector Finish High-gloss reflector Overall length 0 mm Overall width 0 mm Overall height 108 mm Overall diameter 216 mm	Fixation material	Steel
Reflector Finish High-gloss reflector Overall length 0 mm Overall width 0 mm Overall height 108 mm Overall diameter 216 mm	Housing Color	White
Overall length 0 mm Overall width 0 mm Overall height 108 mm Overall diameter 216 mm	Optical cover/lens finish	Frosted
Overall width 0 mm Overall height 108 mm Overall diameter 216 mm	Reflector Finish	High-gloss reflector
Overall height 108 mm Overall diameter 216 mm	Overall length	0 mm
Overall diameter 216 mm	Overall width	0 mm
	Overall height	108 mm
Dimensions (Height x Width x Depth) 108 x 0 x 0 mm	Overall diameter	
	Dimensions (Height x Width x Depth)	216 mm
Approval and Application	Approval and Application	
Ingress protection code IP20 [Finger-protected]	Ingress protection code	

Mech. impact protection code	IK02 [0.2 J standard]
Sustainability rating	-
Protection class IEC	Safety class I
Glow-wire test	Temperature 850 °C, duration 30 s
Flammability mark	For mounting on normally flammable
	surfaces
CE mark	Yes
ENEC mark	-
Warranty period	5 years
Photobiological risk	Photobiological risk group 1@200mm to
	EN62778
EU RoHS compliant	Yes
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%
Initial chromaticity	(0.378,0.377) SDCM≦5
Power consumption tolerance	+/-10%
Over Time Performance (IEC Complia	nt)
Driver failure rate at 5000 h	1%
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 ℃
Maximum dim level	Not applicable
Suitable for random switching	Yes
Product Data	
Full product code	871016332593400
Order product name	DN140B LED20S/840 PSU C PI6
EAN/UPC - Product	8710163325934
Order code	911401632305
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	6
Material number (12NC)	911401632305
Full product name	DN140B LED20S/840 PSU C PI6
EAN/UPC - Case	8710163334851



CoreLine Downlight

Dimensional drawing





© 2023 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.