PHILIPS Lighting



CoreLine Downlight

DN140B LED20S/830 PSD-E C

CoreLine Downlight, 20.5 W, D200 mm, 2200 lm, 3000 K, DALI, High-gloss reflector, IP20

The CoreLine Downlight range of recessed luminaires is designed to replace CFLni/CFL-i based downlight luminaires. Their attractive TCO helps customers to make the switch to LED.These luminaires create a natural lighting effect 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. They are easy to install thanks to their standard cut-out size and push-in connectors.

Product data

General Information			
Light source replaceable	No		
Number of gear units	Unit		
Driver included	Yes		
Remarks	*- According to the Lighting Europe		
	guidance paper 'Evaluating performance		
	of LED based luminaires – January 2018':		
	statistically there is no relevant difference		
	in lumen maintenance between the B50		
	and, for example, the B10. Therefore, the		
	median useful life (B50) value also		
	represents the B10 value.		
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	
Correlated Colour Temperature	3000 K	
Luminous efficacy (rated) (nom.)	107 lm/W	
Colour rendering index (CRI)	≥80	
Flickering value (PstLM)	1	
Stroboscopic effect	0.4	
Beam angle of light source	120 degree(s)	
Light source colour	830 warm white	

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Optic type	-
Luminaire light beam spread	60°
Unified Glare Rating (CEN)	22

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	

Overall diameter	216 mm	
Dimensions (height x width x depth)	105 x 0 x 0 mm	
Approval and Application		
Ingress protection code	IP20 [Finger-protected]	
Mech. impact protection code	IK02 [0.2 J standard]	
Sustainability rating	-	
Protection class IEC	Safety class I	
Photobiological risk	Photobiological risk group 1@200mm to	
	EN62778	
Initial Performance (IEC Compliant)		
Luminous flux tolerance	+/-10%	
Initial chromaticity	(0.432,0.404) SDCM≦5	
Power consumption tolerance	+/-10%	
Over Time Performance (IEC Complia	nt)	
Driver failure rate at 5,000 hours	1%	
Control gear failure rate at median useful	5 %	
life 50,000 h		
Lumen maintenance at median useful life*	L70	
50,000 h		
Application Conditions		
Performance ambient temperature Tq	25 °C	
Maximum dim level	1%	
Suitable for random switching	Yes	
Product Data		
Order product name	DN140B LED20S/830 PSD-E C	
Full product name	DN140B LED20S/830 PSD-E C	
Full EOC	871016332594100	
Order code	32594100	
Material no. (12 NC)	911401632405	
SAP numerator – quantity per pack	1	
EAN/UPC — Product/Case	8710163325941	
Numerator – packs per outer box	1	
EAN/UPC - Case		

Ambient temperature range

Controls and Dimming		
Dimmable	Yes	
Driver/power unit/transformer	Power supply unit with DALI interface	
	external	
Control interface	DALI	
Constant light output	No	

-20 to +40 °C

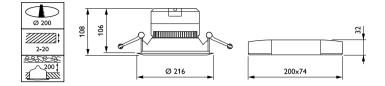
Mechanical and Housing

Housing material	Aluminium	
Reflector material	Aluminium and polycarbonate	
Optic material	Polycarbonate	
Optical cover/lens material	-	
Fixation material	Steel	
Housing Colour	White	
Optical cover/lens finish	-	
Reflector finish	High-gloss reflector	
Overall length	0 mm	
Overall width	0 mm	
Overall height	105 mm	

Datasheet,	2023,	April 1	6
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Dimensional drawing





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