# **PHILIPS** Lighting



# CoreLine SlimDownlight

# DN145C LED20S/830 PSU II WH

CoreLine SlimDownlight, Surface-mounted, 21 W, D205 mm, 2100 lm, 3000 K, CRI>80, Opal, IP20/44

CoreLine slimdownlight delivers on the CoreLine promise of innovative, easy to use and high-quality indoor LED downlights. CoreLine slimdownlight is an innovative range of recessed and surface-mounted luminaires. It is designed to provide uniform lighting across multiple application areas. With instant energy savings and a longer lifetime, this is an environmentally friendly and cost saving solution. Its MultiColorTemp feature offers a choice of two color temperatures in a single luminaire. This makes it easy to select the right product, gives you the flexibility respond to customer preferences on site, and means fewer product codes on stock. Simple and easy installation means our slim downlight fits the same size cut-out, while the minimal built-in depth of 34mm makes this product an ideal space saving solution, especially for projects with limited fitting space. InterAct Ready option with integrated wireless communications in this family is available, to be used with InterAct gateways, sensors and software.

#### **Product data**

General Information		
Lamp family code	LED20S [LED Module, system flux 2000	
	lm]	
Light source replaceable	No	
Number of gear units	1 unit	
Driver included	Yes	
Service tag	Yes	
Lighting Technology	LED	

Value ladder	Performance
Warranty period	5 years
Sustainability rating	-
Light Technical	
Luminous Flux	2,100 lm
Saturated Red (R9)	<50
Correlated Color Temperature (Nom)	3000 K

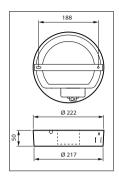
## CoreLine SlimDownlight

Luminous Efficacy (rated) (Nom)	100 lm/W
Color rendering index (CRI)	>80
Number of light sources	1
Beam angle of light source	120 degree(s)
Light source color	830 warm white
Optic type	Beam angle 90°
Luminaire light beam spread	84°
Unified glare rating CEN	28
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 or 60 Hz
Initial CLO power consumption	- W
Average CLO power consumption	- W
Inrush current	28.9 A
Inrush time	0.0016 ms
Power Consumption	21 W
Power Factor (Fraction)	0.9
Connection	Connection unit 2-pole
Cable	-
Number of products on MCB of 16 A type B	16
Suitable for random switching	Yes
Protection class IEC	Safety class II
Total harmonic distortion	20 %
Controls and Dimming	
Dimmable	No
Driver/power unit/transformer	Power supply unit (On/Off)
Control interface	-
Constant light output	No
Maximum dim level	Not applicable
Mechanical and Housing	
Housing Material	Aluminum die cast
Reflector material	
Optic material	Polymethyl methacrylate
Optical cover material	Polystyrene
Fixation material	-
Housing Color	White
Optical cover finish	Opal
Overall height	50 mm
Overall diameter	219 mm
Ingress protection code	IP20/44 [Finger-protected; wire-
	protected, splash-proof]
Mech. impact protection code	IK02 [0.2 J standard]
Optical cover type	Opal
Net Weight (Piece)	0.830 kg
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	ENEC mark
Photobiological risk	Photobiological risk group 0 @200mm t
	EN62778
EU RoHS compliant	Yes
Performance ambient temperature Tq	25 °C
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 th
	B10 value.
Flickering value (PstLM) - Flickering value	1
as per EN 61000-3-3	
Stroboscopic effect visibility measure (SVM)	1.6
Ambient temperature range	0 to +35 °C
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%
Initial chromaticity	(0.43657,0.40454) SDCM<3
Power consumption tolerance	+/-10%
Standard Deviation of Colour Matching	SDCM≤3
(McAdam ellipse)	
(McAdam ellipse)	
(McAdam ellipse) Over Time Performance (IEC Complian	t)
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Over Time Performance (IEC Complian	
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Over Time Performance (IEC Complian Driver failure rate at 5000 h Control gear failure rate at median useful life 50000 h Lumen maintenance at median useful life* 50000 h Product Data Order product name Full product name	0.0015 % 5 % L70 DN145C LED20S/830 PSU II WH DN145C LED20S/830 PSU II WH
Over Time Performance (IEC Complian Driver failure rate at 5000 h Control gear failure rate at median useful life 50000 h Lumen maintenance at median useful life* 50000 h Product Data Order product name Full product name Full product code	0.0015 % 5 % L70 DN145C LED20S/830 PSU II WH DN145C LED20S/830 PSU II WH 871016333953599
Over Time Performance (IEC Complian Driver failure rate at 5000 h Control gear failure rate at median useful life 50000 h Lumen maintenance at median useful life* 50000 h Product Data Order product name Full product name Full product code Order code	0.0015 % 5 % L70 DN145C LED205/830 PSU II WH DN145C LED205/830 PSU II WH 871016333953599 911401806580
Over Time Performance (IEC Complian Driver failure rate at 5000 h Control gear failure rate at median useful life 50000 h Lumen maintenance at median useful life* 50000 h Product Data Order product name Full product name Full product code Order code Material Nr. (12NC)	0.0015 % 5 % L70 DN145C LED20S/830 PSU II WH DN145C LED20S/830 PSU II WH 871016333953599 911401806580 911401806580
Over Time Performance (IEC Complian Driver failure rate at 5000 h Control gear failure rate at median useful life 50000 h Lumen maintenance at median useful life* 50000 h Product Data Order product name Full product name Full product code Order code Material Nr. (12NC) Numerator - Quantity Per Pack	0.0015 % 5 % L70 DN145C LED20S/830 PSU II WH DN145C LED20S/830 PSU II WH 871016333953599 911401806580 911401806580 1

### **CoreLine SlimDownlight**

#### Dimensional drawing





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