CoreLine Downlight

DN131B LED20S/830 PSED-E IP44 II ALU

CoreLine Downlight ALU, LED Module, system flux 2000 lm, 830 warm white, Power supply unit with DALI interface, DC compatible, external, Safety class II, Wire-protected, splash-proof, Aluminum

The CoreLine Downlight range of recessed luminaires is designed to replace CFL-ni/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	
Lamp family code	LED20S [LED Module, system flux 2000 lm]
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.
Product family code	DN131B [CoreLine Downlight ALU]
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 5 s
EU RoHS compliant	Yes

Light Technical	
Luminous Flux	2,100 lm
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	95 lm/W
Color rendering index (CRI)	80

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Number of light sources	1
Beam angle of light source	120 degree(s)
Light source color	830 warm white
Optic type	Wide beam
Optical cover type	Acrylic bowl/cover frosted
Luminaire light beam spread	60°
Unified glare rating CEN	25

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	20.4 A
Inrush time	195 ms
Power Consumption	22 W
Power Factor (Fraction)	0.95
Connection	Plug-in connector 3-pole Wago
Cable	-
Number of products on MCB of 16 A type B	24

Temperature

Ambient temperature range	-10 to +40 °C

Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface, DC compatible, external
Control interface	DALI
Constant light output	No

Mechanical and Housing

Housing Material	Polycarbonate
Reflector material	Polycarbonate
Optic material	Aluminum
Optical cover material	Polycarbonate
Fixation material	Steel
Housing Color	Aluminum
Optical cover finish	Frosted
Overall height	109 mm
Overall diameter	216 mm

Approval and Application

Ingress protection code	IP44 [Wire-protected, splash-proof]
Mech. impact protection code	IK02 [0.2 J standard]
Protection class IEC	Safety class II

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.43, 0.40) SDCM <5
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

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

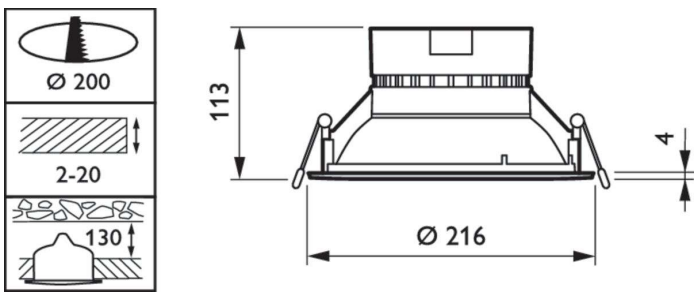
Application Conditions

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

Product Data

Order product name	DN131B LED20S/830 PSED-E IP44 II ALU
Full product name	DN131B LED20S/830 PSED-E IP44 II ALU
Full product code	871869687895800
Order code	87895800
Material Nr. (12NC)	910500458092
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718696878958
Numerator - Packs per outer box	1
EAN/UPC - Case	8718696878958

Dimensional drawing



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2023, April 29 - data subject to change