CoreLine Downlight

DN140B LED20S/840 PSD-E C ELB3

Coreline Downlight Gen4 - 840 neutral white - Power supply unit with DALI interface - High-gloss mirror - Push-in connector and pull relief - Finger-protected

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

Beam angle of light source	120 °
Light source colour	840 neutral white
Light source replaceable	No
Number of gear units	1 unit
Driver/power unit/transformer	PSD [Power supply unit with DALI interface]
Driver included	Yes
Optic type	C [High-gloss mirror]
Luminaire light beam spread	60°
Control interface	DALI
Connection	Push-in connector and pull relief
Cable	-
Protection class IEC	Safety class I
Glow-wire test	Temperature 850 °C, duration 5 s

Flammability mark	F [For mounting on normally flammable surfaces]
CE mark	CE mark
ENEC mark	-
Warranty period	5 years
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.
Constant light output	No
Number of products on MCB (16 A type B)	24

CoreLine Downlight

EU RoHS compliant	Yes
Product family code	DN140B [Coreline Downlight Gen4]
Unified glare rating CEN	22

Operating and Electrical

Input Voltage	220-240 V
Input frequency	50 to 60 Hz
Initial CLO power consumption	– W W W
Average CLO power consumption	– W W W
End CLO power consumption	– W
Inrush current	20.4 A
Inrush time	0.195 ms
Power factor (min.)	0.95

Controls and Dimming

Dimmable	Yes

Mechanical and Housing

Housing material	Polycarbonate
Reflector material	Polycarbonate aluminium coated
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	Steel
Optical cover/lens finish	Frosted
Overall length	0 mm
Overall width	0 mm
Overall height	108 mm
Overall diameter	216 mm
Colour	White RAL 9003
Dimensions (height x width x depth)	108 x 0 x 0 mm (4.3 x 0 x 0 in)

Approval and Application

Ingress protection code	IP20 [Finger-protected]
Mech. impact protection code	IK02 [0.2 J standard]

Initial Performance (IEC Compliant)

Initial luminous flux (system flux)	2200 lm
Luminous flux tolerance	+/-10%
Initial LED luminaire efficacy	94 lm/W
Init. Corr. Colour Temperature	4000 K
Init. Colour rendering index	≥80
Initial chromaticity	(0.378,0.377) SDCM≦5
Initial input power	23.5 W
Power consumption tolerance	+/-10%

Over Time Performance (IEC Compliant)

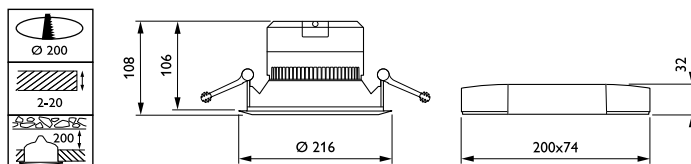|	
Control gear failure rate at median useful life 50,000 h	5 %
Lumen maintenance at median useful life* 50,000 h	L70

Application Conditions

Ambient temperature range	0 to +35 ℃
Performance ambient temperature Tq	25 ℃
Maximum dimming level	1%
Suitable for random switching	Yes

Product Data

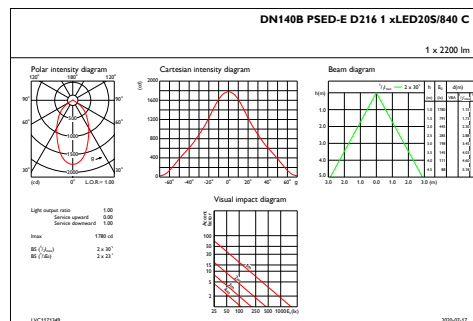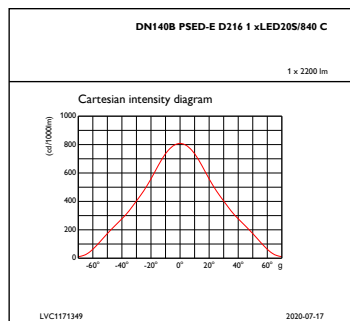|	
Full product code	871016332838600
Order product name	DN140B LED20S/840 PSD-E C ELB3
EAN/UPC – product	8710163328386
Order code	32838600
SAP numerator – quantity per pack	1
Numerator – packs per outer box	1
SAP material	911401640105
SAP net weight (piece)	1.390 kg

Dimensional drawing

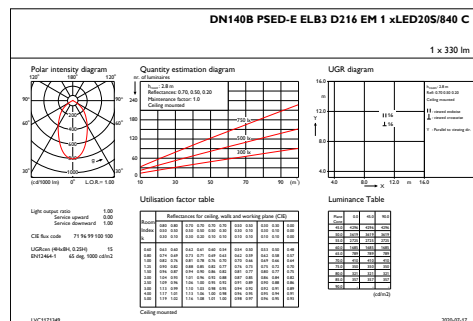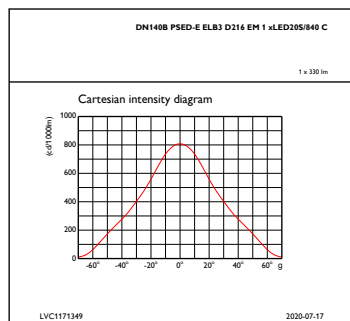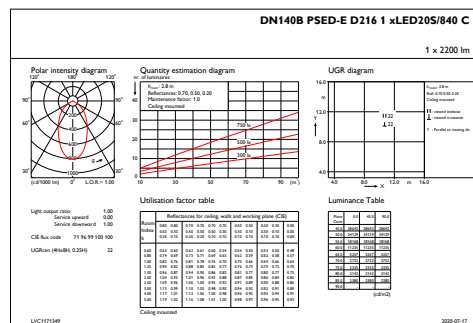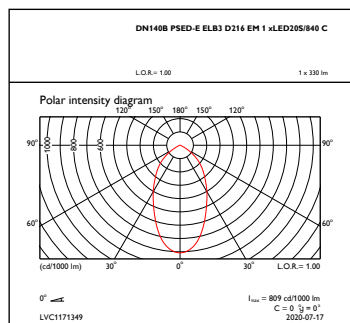CoreLine Downlight DN140B

CoreLine Downlight

Photometric data

IFCC1_DN140BPSED-ED2161xLED20S840C

IFAS1_DN140BPSED-ED2161xLED20S840C
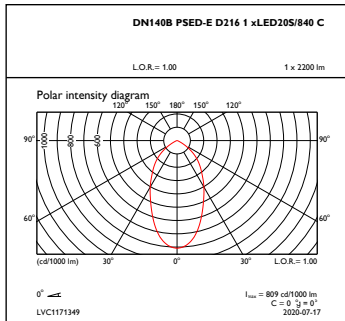

IFCC1_DN140BPSED-EELB3D216EM1xLED20S840C
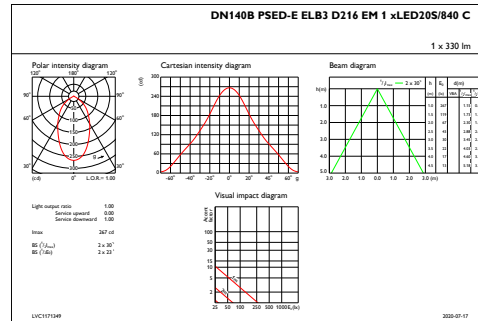

IFGU1_DN140BPSED-EELB3D216EM1xLED20S840C

OFPC1_DN140BPSED-EELB3D216EM1xLED20S840C

IFGU1_DN140BPSED-ED2161xLED20S840C

CoreLine Downlight

Photometric data

DN140B PSED-E D216 1 xLED20S/840 C

L.O.R.= 1.00   1 x 2200 lm

Polar intensity diagram

(cd/1000 lm)   30°   0°   30°   L.O.R.= 1.00

I$_{max}$ = 809 cd/1000 lm
C = 0 °g = 0°
LVC1171349   2020-07-17

OFPC1_DN140BPSED-ED2161xLED20S840C

DN140B PSED-E ELB3 D216 EM 1 xLED20S/840 C

1 x 330 lm

Polar intensity diagram   Cartesian intensity diagram   Beam diagram

Light output ratio   1.00
Service upward   0.00
Service downward   1.00

Imax   347 cd

BS (⊥)$_{max}$ 2 x 30°
BS (⊥)$_{90}$ 2 x 23°

Visual impact diagram

LVC1171349   2020-07-17

IFAS1_DN140BPSED-EELB3D216EM1xLED20S840C