



CoreLine SlimDownlight – the clear choice for LED

CoreLine SlimDownlight

CoreLine SlimDownlight is a range of ultra-thin recessed luminaires designed to replace downlight luminaires based on CFL-ni/CFL-I lamp technology. The product's attractive TCO makes it easy for customers to make the switch to LED. CoreLine SlimDownlight delivers a natural 'surface of light' effect for use in general lighting applications. It also offers instant energy savings and a much longer lifetime, making it a real value-for-money and environmentally friendly solution. Installation is easy, as the luminaire fits the same size of cut-out and has an extremely small build-in depth.

Benefits

- Energy savings and longer lifetime reduce operating costs
- One-to-one replacement for conventional luminaires
- The natural 'surface of light' effect creates a comfortable, high-end look

Features

- Diffuse light quality
- Product height of less than 50 mm: fits more ceiling types
- Surface-mounted version enables luminaire to be positioned anywhere
- Available in 1000 and 2000 lumen versions
- Choice of color temperature: 3000 and 4000 K

Application

- General lighting in corridors
- Retail stores
- Reception areas
- Indoor circulation areas

CoreLine SlimDownlight

Versions



Coreline SlimDownlight-DN145C
20S



CoreLine SlimDownlight DN145B
Micro All-in



CoreLine SlimDownlight DN145B
Compact All-in

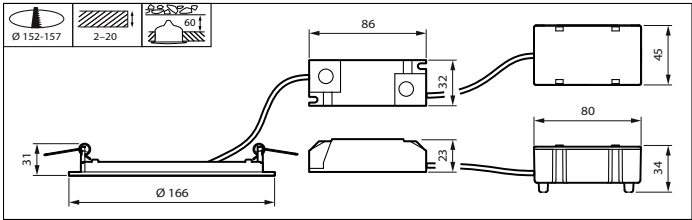
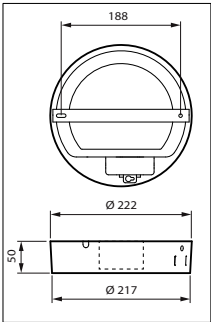


Coreline SlimDownlight-DN145B
6S



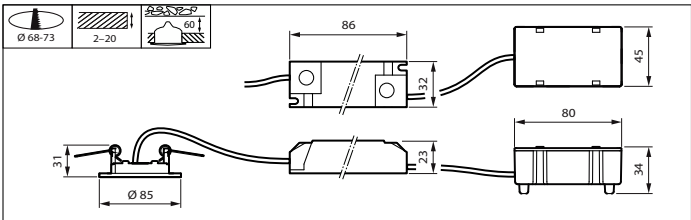
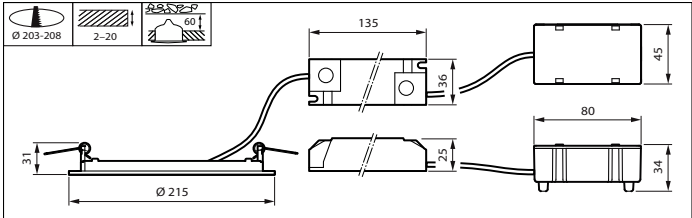
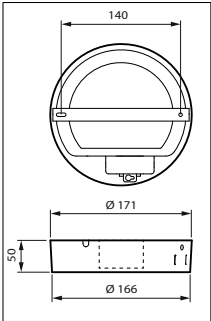
CoreLine SlimDownlight DN145B
Mini All-in

Dimensional drawing



CoreLine SlimDownlight

Dimensional drawing



Product details

CoreLine SlimDownlight 2100lm
side view



CoreLine SlimDownlight Surface-mounted 2100lm



Philips CoreLine SlimDownlight
Recessed DT01



CoreLine SlimDownlight 2100lm
with PSU driver and easy
connector

CoreLine SlimDownlight 2100lm



CoreLine SlimDownlight

Product details



Philips CoreLine SlimDownlight
Surface DT02



Philips CoreLine SlimDownlight
Surface DT01

General Information	
Driver included	Yes
Number of gear units	1 unit
Service tag	Yes
Light Technical	
Color rendering index (CRI)	>80
Operating and Electrical	
Protection class IEC	Safety class II
Input Voltage	220 to 240 V
Line Frequency	50 or 60 Hz
Mechanical and Housing	
Housing Color	White
Mech. impact protection code	IK02
Ingress protection code	IP20/44
Approval and Application	
CE mark	Yes
ENEC mark	ENEC mark
Flammability mark	For mounting on normally flammable surfaces
Glow-wire test	Temperature 650 °C, duration 30 s

General Information

Order Code	Full Product Name	Lamp family code	Light source replaceable
33951199	DN145C LED10S/830 PSU II WH	LED10S	No
33952899	DN145C LED10S/840 PSU II WH	LED10S	No
33953599	DN145C LED20S/830 PSU II WH	LED20S	No
33954299	DN145C LED20S/840 PSU II WH	LED20S	No
50040299	DN145B LED6S/830_840 PSU WH	-	-
96102299	DN145B LED20S/830 PSD-E II WH	LED20S	No
96103999	DN145B LED20S/840 PSD-E II WH	LED20S	No
97642299	DN145B LED20S/830 WIA-E WH	-	No
97644699	DN145B LED20S/840 WIA-E WH	-	No
33949899	DN145B LED20S/830 PSU II WH	LED20S	No
33950499	DN145B LED20S/840 PSU II WH	LED20S	No
50042699	DN145B LED20S/830_840 PSU WH	-	-
96100899	DN145B LED10S/830 PSD-E II WH	LED10S	No
96101599	DN145B LED10S/840 PSD-E II WH	LED10S	No
97638599	DN145B LED10S/830 WIA-E WH	-	No
97640899	DN145B LED10S/840 WIA-E WH	-	No
33947499	DN145B LED10S/830 PSU II WH	LED10S	No
33948199	DN145B LED10S/840 PSU II WH	LED10S	No
33945099	DN145B LED6S/830 PSU II WH	LED6S	No
33946799	DN145B LED6S/840 PSU II WH	LED6S	No
50041999	DN145B LED10S/830_840 PSU WH	-	-

Light Technical (1/2)

Full Product			Beam angle of light source	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)
Order Code	Name	All-in Type			
33951199	DN145C LED10S/830 PSU II WH	-	120 degree(s)	3000 K	100 lm/W
33952899	DN145C LED10S/840 PSU II WH	-	120 degree(s)	4000 K	100 lm/W
33953599	DN145C LED20S/830 PSU II WH	-	120 degree(s)	3000 K	100 lm/W

Full Product			Beam angle of light source	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)
Order Code	Name	All-in Type			
33954299	DN145C LED20S/840 PSU II WH	-	120 degree(s)	4000 K	100 lm/W
50040299	DN145B LED6S/830_840 PSU WH	All-in, Multi Color Temperature	-	3000 K	100 lm/W

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Order Code	Full Product		Beam angle of light source	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)
	Name	All-in Type			
96102299	DN145B LED20S/830 PSD-E II WH	-	120 degree(s)	3000 K	93 lm/W
96103999	DN145B LED20S/840 PSD-E II WH	-	120 degree(s)	4000 K	93 lm/W
97642299	DN145B LED20S/830 WIA-E WH	-	120 degree(s)	3000 K	93 lm/W
97644699	DN145B LED20S/840 WIA-E WH	-	120 degree(s)	4000 K	93 lm/W
33949899	DN145B LED20S/830 PSU II WH	-	120 degree(s)	3000 K	100 lm/W
33950499	DN145B LED20S/840 PSU II WH	-	120 degree(s)	4000 K	100 lm/W
50042699	DN145B LED20S/830_840 PSU WH	All-in, Multi Color Temperature	-	3000 K	100 lm/W
96100899	DN145B LED10S/830 PSD-E II WH	-	120 degree(s)	3000 K	85 lm/W

Order Code	Full Product		Beam angle of light source	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)
	Name	All-in Type			
96101599	DN145B LED10S/840 PSD-E II WH	-	120 degree(s)	4000 K	85 lm/W
97638599	DN145B LED10S/830 WIA-E WH	-	120 degree(s)	3000 K	93 lm/W
97640899	DN145B LED10S/840 WIA-E WH	-	120 degree(s)	4000 K	93 lm/W
33947499	DN145B LED10S/830 PSU II WH	-	120 degree(s)	3000 K	100 lm/W
33948199	DN145B LED10S/840 PSU II WH	-	120 degree(s)	4000 K	100 lm/W
33945099	DN145B LED6S/830 PSU II WH	-	120 degree(s)	3000 K	100 lm/W
33946799	DN145B LED6S/840 PSU II WH	-	120 degree(s)	4000 K	100 lm/W
50041999	DN145B LED10S/830_840 PSU WH	All-in, Multi Color Temperature	-	3000 K	100 lm/W

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux	Number of light sources		Optic type
33951199	DN145C LED10S/830 PSU II WH	1,100 lm	1		Beam angle 90°
33952899	DN145C LED10S/840 PSU II WH	1,100 lm	1		Beam angle 90°
33953599	DN145C LED20S/830 PSU II WH	2,100 lm	1		Beam angle 90°
33954299	DN145C LED20S/840 PSU II WH	2,100 lm	1		Beam angle 90°
50040299	DN145B LED6S/830_840 PSU WH	650 lm	-		Wide beam
96102299	DN145B LED20S/830 PSD-E II WH	2,100 lm	1		Beam angle 90°
96103999	DN145B LED20S/840 PSD-E II WH	2,100 lm	1		Beam angle 90°
97642299	DN145B LED20S/830 WIA-E WH	2,100 lm	-		Beam angle 90°
97644699	DN145B LED20S/840 WIA-E WH	2,100 lm	-		Beam angle 90°

Order Code	Full Product Name	Luminous Flux	Number of light sources		Optic type
33949899	DN145B LED20S/830 PSU II WH	2,100 lm	1		Beam angle 90°
33950499	DN145B LED20S/840 PSU II WH	2,100 lm	1		Beam angle 90°
50042699	DN145B LED20S/830_840 PSU WH	2,100 lm	-		Wide beam
96100899	DN145B LED10S/830 PSD-E II WH	1,100 lm	1		Beam angle 90°
96101599	DN145B LED10S/840 PSD-E II WH	1,100 lm	1		Beam angle 90°
97638599	DN145B LED10S/830 WIA-E WH	1,100 lm	-		Beam angle 90°
97640899	DN145B LED10S/840 WIA-E WH	1,100 lm	-		Beam angle 90°
33947499	DN145B LED10S/830 PSU II WH	1,100 lm	1		Beam angle 90°
33948199	DN145B LED10S/840 PSU II WH	1,100 lm	1		Beam angle 90°

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Order Code	Full Product Name	Luminous Flux	Number of light sources		Optic type
33945099	DN145B LED6S/830 PSU II WH	650 lm	1		Beam angle 90°
33946799	DN145B LED6S/840 PSU II WH	650 lm	1		Beam angle 90°

Order Code	Full Product Name	Luminous Flux	Number of light sources		Optic type
50041999	DN145B LED10S/830_840 PSU WH	1,100 lm	-		Wide beam

Operating and Electrical

Order Code	Full Product Name	Power Consumption	Suitable for random switching	
33951199	DN145C LED10S/830 PSU II WH	11 W		Yes
33952899	DN145C LED10S/840 PSU II WH	11 W		Yes
33953599	DN145C LED20S/830 PSU II WH	21 W		Yes
33954299	DN145C LED20S/840 PSU II WH	21 W		Yes
50040299	DN145B LED6S/830_840 PSU WH	6.5 W		Not applicable
96102299	DN145B LED20S/830 PSD-E II WH	22.5 W		Yes
96103999	DN145B LED20S/840 PSD-E II WH	22.5 W		Yes
97642299	DN145B LED20S/830 WIA-E WH	22.5 W		Yes
97644699	DN145B LED20S/840 WIA-E WH	22.5 W		Yes
33949899	DN145B LED20S/830 PSU II WH	21 W		Yes
33950499	DN145B LED20S/840 PSU II WH	21 W		Yes

Order Code	Full Product Name	Power Consumption	Suitable for random switching	
50042699	DN145B LED20S/830_840 PSU WH	21 W		Not applicable
96100899	DN145B LED10S/830 PSD-E II WH	13 W		Yes
96101599	DN145B LED10S/840 PSD-E II WH	13 W		Yes
97638599	DN145B LED10S/830 WIA-E WH	13 W		Yes
97640899	DN145B LED10S/840 WIA-E WH	13 W		Yes
33947499	DN145B LED10S/830 PSU II WH	11 W		Yes
33948199	DN145B LED10S/840 PSU II WH	11 W		Yes
33945099	DN145B LED6S/830 PSU II WH	6.5 W		Yes
33946799	DN145B LED6S/840 PSU II WH	6.5 W		Yes
50041999	DN145B LED10S/830_840 PSU WH	11 W		Not applicable

Controls and Dimming

Order Code	Full Product Name	Dimmable	Maximum dim level
33951199	DN145C LED10S/830 PSU II WH	No	Not applicable
33952899	DN145C LED10S/840 PSU II WH	No	Not applicable
33953599	DN145C LED20S/830 PSU II WH	No	Not applicable
33954299	DN145C LED20S/840 PSU II WH	No	Not applicable
50040299	DN145B LED6S/830_840 PSU WH	No	-
96102299	DN145B LED20S/830 PSD-E II WH	Yes	Not applicable
96103999	DN145B LED20S/840 PSD-E II WH	Yes	Not applicable
97642299	DN145B LED20S/830 WIA-E WH	Yes	Not applicable
97644699	DN145B LED20S/840 WIA-E WH	Yes	Not applicable
33949899	DN145B LED20S/830 PSU II WH	No	Not applicable
33950499	DN145B LED20S/840 PSU II WH	No	Not applicable

Order Code	Full Product Name	Dimmable	Maximum dim level
50042699	DN145B LED20S/830_840 PSU WH	No	-
96100899	DN145B LED10S/830 PSD-E II WH	Yes	Not applicable
96101599	DN145B LED10S/840 PSD-E II WH	Yes	Not applicable
97638599	DN145B LED10S/830 WIA-E WH	Yes	Not applicable
97640899	DN145B LED10S/840 WIA-E WH	Yes	Not applicable
33947499	DN145B LED10S/830 PSU II WH	No	Not applicable
33948199	DN145B LED10S/840 PSU II WH	No	Not applicable
33945099	DN145B LED6S/830 PSU II WH	No	Not applicable
33946799	DN145B LED6S/840 PSU II WH	No	Not applicable
50041999	DN145B LED10S/830_840 PSU WH	No	-

Mechanical and Housing

Order Code	Full Product Name	Optical cover type
33951199	DN145C LED10S/830 PSU II WH	Opal
33952899	DN145C LED10S/840 PSU II WH	Opal
33953599	DN145C LED20S/830 PSU II WH	Opal
33954299	DN145C LED20S/840 PSU II WH	Opal
50040299	DN145B LED6S/830_840 PSU WH	-
96102299	DN145B LED20S/830 PSD-E II WH	Opal
96103999	DN145B LED20S/840 PSD-E II WH	Opal
97642299	DN145B LED20S/830 WIA-E WH	-
97644699	DN145B LED20S/840 WIA-E WH	-

Order Code	Full Product Name	Optical cover type
33949899	DN145B LED20S/830 PSU II WH	Opal
33950499	DN145B LED20S/840 PSU II WH	Opal
50042699	DN145B LED20S/830_840 PSU WH	-
96100899	DN145B LED10S/830 PSD-E II WH	Opal
96101599	DN145B LED10S/840 PSD-E II WH	Opal
97638599	DN145B LED10S/830 WIA-E WH	-
97640899	DN145B LED10S/840 WIA-E WH	-
33947499	DN145B LED10S/830 PSU II WH	Opal
33948199	DN145B LED10S/840 PSU II WH	Opal

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Order Code	Full Product Name	Optical cover type
33945099	DN145B LED6S/830 PSU II WH	Opal
33946799	DN145B LED6S/840 PSU II WH	Opal

Emergency Operation

Order Code	Full Product Name	Central Emergency
33951199	DN145C LED10S/830 PSU II WH	-
33952899	DN145C LED10S/840 PSU II WH	-
33953599	DN145C LED20S/830 PSU II WH	-
33954299	DN145C LED20S/840 PSU II WH	-
50040299	DN145B LED6S/830_840 PSU WH	No
96102299	DN145B LED20S/830 PSD-E II WH	-
96103999	DN145B LED20S/840 PSD-E II WH	-
97642299	DN145B LED20S/830 WIA-E WH	-
97644699	DN145B LED20S/840 WIA-E WH	-
33949899	DN145B LED20S/830 PSU II WH	-
33950499	DN145B LED20S/840 PSU II WH	-

Approval and Application

Order Code	Full Product Name	Ambient temperature range	Flickering value (PstLM) - Flickering value as per EN 61000-3-3	Stroboscopic effect visibility measure (SVM)
33951199	DN145C LED10S/830 PSU II WH	0 to +35 °C	1	1.6
33952899	DN145C LED10S/840 PSU II WH	0 to +35 °C	1	1.6
33953599	DN145C LED20S/830 PSU II WH	0 to +35 °C	1	1.6
33954299	DN145C LED20S/840 PSU II WH	0 to +35 °C	1	1.6
50040299	DN145B LED6S/830_840 PSU WH	-20 to +40 °C	-	-
96102299	DN145B LED20S/830 PSD-E II WH	0 to +35 °C	1	0.4
96103999	DN145B LED20S/840 PSD-E II WH	0 to +35 °C	1	0.4
97642299	DN145B LED20S/830 WIA-E WH	0 to +35 °C	1	0.4

Order Code	Full Product Name	Optical cover type
50041999	DN145B LED10S/830_840 PSU WH	-

Order Code	Full Product Name	Central Emergency
50042699	DN145B LED20S/830_840 PSU WH	No
96100899	DN145B LED10S/830 PSD-E II WH	-
96101599	DN145B LED10S/840 PSD-E II WH	-
97638599	DN145B LED10S/830 WIA-E WH	-
97640899	DN145B LED10S/840 WIA-E WH	-
33947499	DN145B LED10S/830 PSU II WH	-
33948199	DN145B LED10S/840 PSU II WH	-
33945099	DN145B LED6S/830 PSU II WH	-
33946799	DN145B LED6S/840 PSU II WH	-
50041999	DN145B LED10S/830_840 PSU WH	No

Order Code	Full Product Name	Ambient temperature range	Flickering value (PstLM) - Flickering value as per EN 61000-3-3	Stroboscopic effect visibility measure (SVM)
97644699	DN145B LED20S/840 WIA-E WH	0 to +35 °C	1	0.4
33949899	DN145B LED20S/830 PSU II WH	0 to +35 °C	1	1.6
33950499	DN145B LED20S/840 PSU II WH	0 to +35 °C	1	1.6
50042699	DN145B LED20S/830_840 PSU WH	-20 to +40 °C	-	-
96100899	DN145B LED10S/830 PSD-E II WH	0 to +35 °C	1	0.4
96101599	DN145B LED10S/840 PSD-E II WH	0 to +35 °C	1	0.4
97638599	DN145B LED10S/830 WIA-E WH	0 to +35 °C	1	0.4
97640899	DN145B LED10S/840 WIA-E WH	0 to +35 °C	1	0.4

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Order Code	Full Product Name	Ambient temperature range	Flickering value (PstLM) - Flickering value as per EN 61000-3-3	Stroboscopic effect visibility measure (SVM)
33947499	DN145B LED10S/830 PSU II WH	0 to +35 °C	1	1.6
33948199	DN145B LED10S/840 PSU II WH	0 to +35 °C	1	1.6

Order Code	Full Product Name	Ambient temperature range	Flickering value (PstLM) - Flickering value as per EN 61000-3-3	Stroboscopic effect visibility measure (SVM)
33945099	DN145B LED6S/830 PSU II WH	0 to +35 °C	1	1.6
33946799	DN145B LED6S/840 PSU II WH	0 to +35 °C	1	1.6
50041999	DN145B LED10S/830_840 PSU WH	-20 to +40 °C	-	-

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity	Luminous flux tolerance
33951199	DN145C LED10S/830 PSU II WH	(0.43657,0.40454) SDCM<3	+/-10%
33952899	DN145C LED10S/840 PSU II WH	(0.38212,0.38031) SDCM<3	+/-10%
33953599	DN145C LED20S/830 PSU II WH	(0.43657,0.40454) SDCM<3	+/-10%
33954299	DN145C LED20S/840 PSU II WH	(0.38212,0.38031) SDCM<3	+/-10%
50040299	DN145B LED6S/830_840 PSU WH	(0.44, 0.41) SDCM <3; (0.38, 0.38) SDCM <3	-10% / +10%
96102299	DN145B LED20S/830 PSD-E II WH	(0.43657,0.40454) SDCM<3	+/-10%
96103999	DN145B LED20S/840 PSD-E II WH	(0.38212,0.38031) SDCM<3	+/-10%
97642299	DN145B LED20S/830 WIA-E WH	(0.43657,0.40454) SDCM<3	+/-10%
97644699	DN145B LED20S/840 WIA-E WH	(0.38212,0.38031) SDCM<3	+/-10%
33949899	DN145B LED20S/830 PSU II WH	(0.43657,0.40454) SDCM<3	+/-10%
33950499	DN145B LED20S/840 PSU II WH	(0.38212,0.38031) SDCM<3	+/-10%

Order Code	Full Product Name	Initial chromaticity	Luminous flux tolerance
50042699	DN145B LED20S/830_840 PSU WH	(0.44, 0.41) SDCM <3; (0.38, 0.38) SDCM <3	-10% / +10%
96100899	DN145B LED10S/830 PSD-E II WH	(0.43657,0.40454) SDCM<3	+/-10%
96101599	DN145B LED10S/840 PSD-E II WH	(0.38212,0.38031) SDCM<3	+/-10%
97638599	DN145B LED10S/830 WIA-E WH	(0.43657,0.40454) SDCM<3	+/-10%
97640899	DN145B LED10S/840 WIA-E WH	(0.38212,0.38031) SDCM<3	+/-10%
33947499	DN145B LED10S/830 PSU II WH	(0.43657,0.40454) SDCM<3	+/-10%
33948199	DN145B LED10S/840 PSU II WH	(0.38212,0.38031) SDCM<3	+/-10%
33945099	DN145B LED6S/830 PSU II WH	(0.43657,0.40454) SDCM<3	+/-10%
33946799	DN145B LED6S/840 PSU II WH	(0.38212,0.38031) SDCM<3	+/-10%
50041999	DN145B LED10S/830_840 PSU WH	(0.44, 0.40) SDCM <3; (0.38, 0.38) SDCM <3	-10% / +10%

Over Time Performance (IEC Compliant)

Order Code	Full Product Name	Driver failure rate at 5000 h
33951199	DN145C LED10S/830 PSU II WH	0.0015 %
33952899	DN145C LED10S/840 PSU II WH	0.0015 %
33953599	DN145C LED20S/830 PSU II WH	0.0015 %
33954299	DN145C LED20S/840 PSU II WH	0.0015 %
50040299	DN145B LED6S/830_840 PSU WH	-
96102299	DN145B LED20S/830 PSD-E II WH	0.0015 %
96103999	DN145B LED20S/840 PSD-E II WH	0.0015 %
97642299	DN145B LED20S/830 WIA-E WH	-

Order Code	Full Product Name	Driver failure rate at 5000 h
97644699	DN145B LED20S/840 WIA-E WH	-
33949899	DN145B LED20S/830 PSU II WH	0.0015 %
33950499	DN145B LED20S/840 PSU II WH	0.0015 %
50042699	DN145B LED20S/830_840 PSU WH	-
96100899	DN145B LED10S/830 PSD-E II WH	0.0015 %
96101599	DN145B LED10S/840 PSD-E II WH	0.0015 %
97638599	DN145B LED10S/830 WIA-E WH	-
97640899	DN145B LED10S/840 WIA-E WH	-

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Order Code	Full Product Name	Driver failure rate at 5000 h
33947499	DN145B LED10S/830 PSU II WH	0.0015 %
33948199	DN145B LED10S/840 PSU II WH	0.0015 %
33945099	DN145B LED6S/830 PSU II WH	-

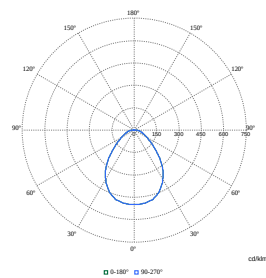
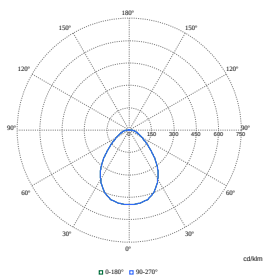
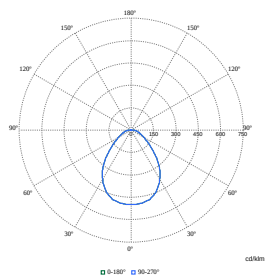
Order Code	Full Product Name	Driver failure rate at 5000 h
33946799	DN145B LED6S/840 PSU II WH	-
50041999	DN145B LED10S/830_840 PSU WH	-

Product Data

Order Code	Full Product Name	Product family code
33951199	DN145C LED10S/830 PSU II WH	-
33952899	DN145C LED10S/840 PSU II WH	-
33953599	DN145C LED20S/830 PSU II WH	-
33954299	DN145C LED20S/840 PSU II WH	-
50040299	DN145B LED6S/830_840 PSU WH	-
96102299	DN145B LED20S/830 PSD-E II WH	DN145B
96103999	DN145B LED20S/840 PSD-E II WH	DN145B
97642299	DN145B LED20S/830 WIA-E WH	DN145B
97644699	DN145B LED20S/840 WIA-E WH	DN145B
33949899	DN145B LED20S/830 PSU II WH	-
33950499	DN145B LED20S/840 PSU II WH	-

Order Code	Full Product Name	Product family code
50042699	DN145B LED20S/830_840 PSU WH	-
96100899	DN145B LED10S/830 PSD-E II WH	DN145B
96101599	DN145B LED10S/840 PSD-E II WH	DN145B
97638599	DN145B LED10S/830 WIA-E WH	DN145B
97640899	DN145B LED10S/840 WIA-E WH	DN145B
33947499	DN145B LED10S/830 PSU II WH	-
33948199	DN145B LED10S/840 PSU II WH	-
33945099	DN145B LED6S/830 PSU II WH	-
33946799	DN145B LED6S/840 PSU II WH	-
50041999	DN145B LED10S/830_840 PSU WH	-

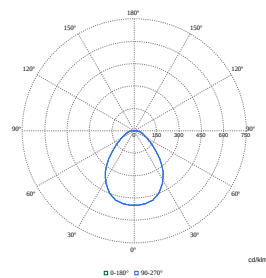
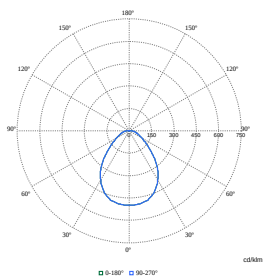
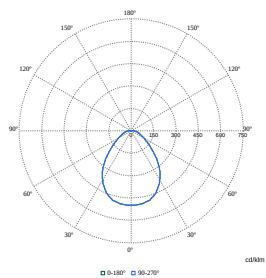
Polar Wide Diagrams



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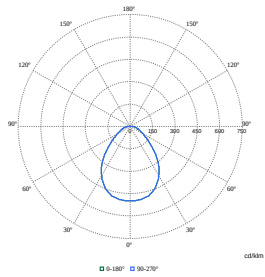


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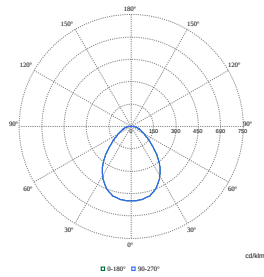
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Polar Normal (separate) - DN145BI - 910505101198

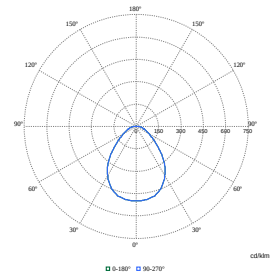
Polar Wide Diagrams



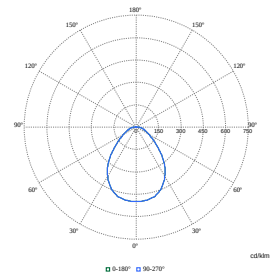
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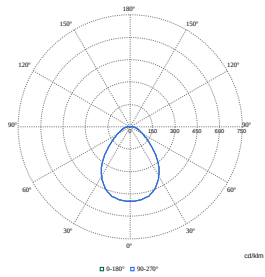
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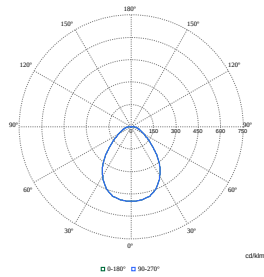
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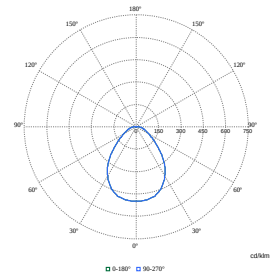
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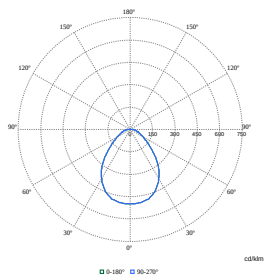
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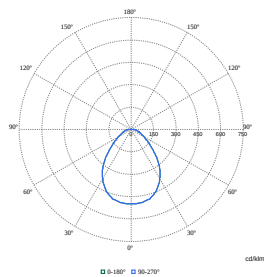
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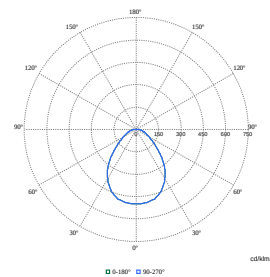
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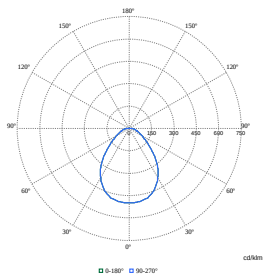
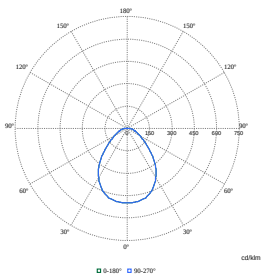
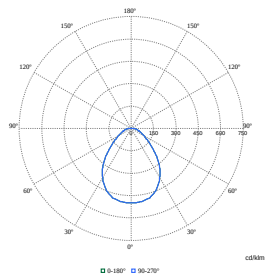


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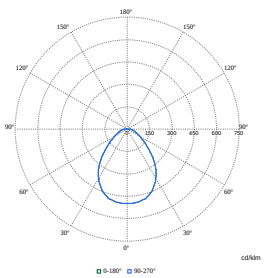
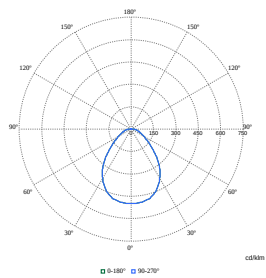
Polar Wide Diagrams



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Polar Normal (separate) - null - 911401806680

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