



Philips CoreLine surface-mounted: easy installation, excellent illumination

CoreLine surface-mounted

Philips CoreLine surface-mounted light fixtures deliver on the CoreLine promise of innovative, easy-to-use, high-quality luminaires. These high-quality LEDs are designed to replace existing surface-mounted luminaires with T8 or T5 technology. This CoreLine family also features an innovative new choice of multiple lumen outputs in one single luminaire, called MultiLumen. Instant energy savings and a longer lifetime, make this is an environmentally-friendly and cost-saving surface LED light solution. With a quick-connector feature, our SM136V surface-mounted luminaires are quick and easy to install. Also available within the range are Interact Ready luminaires with integrated wireless communications, which are fully compatible with Interact gateways, sensors and software.

Benefits

- MultiLumen: the choice of different lumen outputs in one single luminaire
- New connector offers quick and simple installation
- Energy savings and longer lifetime to reduce operating costs

CoreLine surface-mounted

Features

- MultiLumen: different lumen outputs ranging from 2800 lumen to 4300 lumen in one single luminaire
- Easy connector for faster installation: quick connector or Wieland connector
- Energy efficient and long lifetime: up to 140 lm/W and 50,000 hours @L80 lifetime
- Many flicker-free drivers available: On/off (PSU), dimming (Dali) and integrated wireless connectivity (Interact Ready)
- Office compliant versions (OC) & Non-office compliant versions (NOC)
- High lumen available: up to 6000 lm (OC)
- Optional versions available: Emergency Lighting (EL) & Wieland connectors (W)

Application

- Offices
- Healthcare
- Education

Warnings and Safety

- The product is IPX0 & as such is not protected against water ingress & as such we strongly recommend that The environment in which The luminaire is to be installed is suitably checked
- If the above advice is not taken and the luminaires are subject to water ingress, Philips / Signify cannot guarantee safe failure & product warranty will become void

Versions

SM136V 31S_37S_43S_840 PSU
W20L150 OC_SPP



SM136V 31S_37S_43S_840 PSU
W20L120 NOC_SPP



SM136V 28S_34S_40S_830 PSU
W20L120 NOC_SPP



SM136V 31S_37S_43S_840 PSD
W20L150 OC_SPP



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Versions

SM136V 31S_37S_43S_840 PSD
W20L120 OC_SPP

SM136V 31S_37S_43S_840 PSU
W20L120 OC_SPP



SM136V 31S_37S_43S_840 PSU
W20L150 NOC_SPP

SM136V 28S_34S_40S_830 PSD
W20L150 OC_SPP



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SM136V 31S_37S_43S_840 PSD
W20L120 NOC_SPP

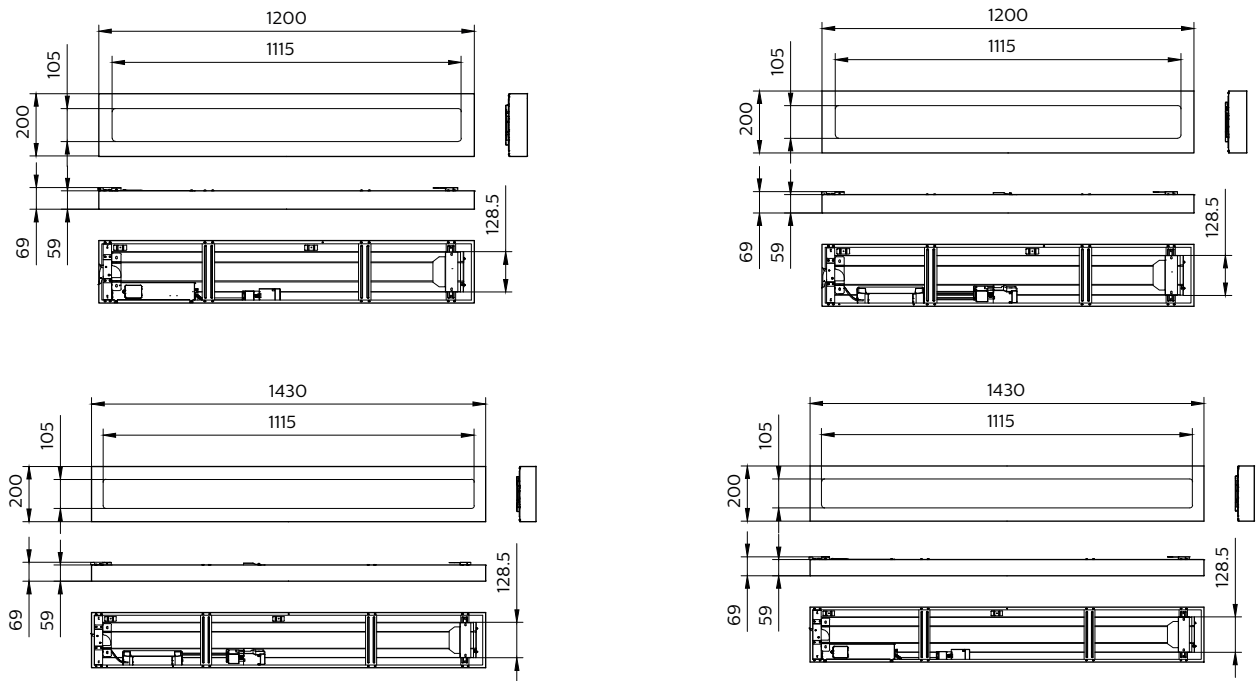


SM136V 28S_34S_40S_830 PSD
W20L120 OC_SPP

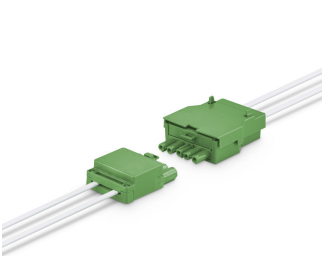


CoreLine surface-mounted

Dimensional drawing



Product details



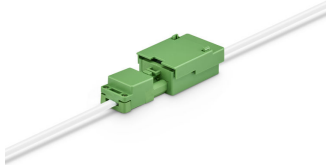
CoreLine Recessed connector PSD (dali)



CoreLine Surface-mounted Mounting clip



CoreLine Recessed connector PSU (On/Off)



CoreLine Recessed connector PSU (On/Off)

CoreLine surface-mounted

Product details



CoreLine Surface-mounted
Mounting clip



CoreLine_Surface-mounted-
SM136V_20x120



CoreLine Surface-mounted
backside with PSD (Dali) driver
and connector



CoreLine Surface-mounted edge



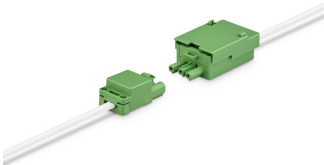
CoreLine_Surface-mounted-
SM136V_20x150



CoreLine Surface-mounted
Backside PSD (dali) driver 20x120



CoreLine Surface-mounted
Mounting bracket



CoreLine Recessed connector PSU
(On/Off))

CoreLine surface-mounted

Product details



CoreLine Surface-mounted PSU
(On/OFF) driver



CoreLine Surface-mounted
Backside PSU (On/Off) driver
20x150

General Information	
Driver included	Yes
Light source replaceable	No
Number of gear units	1 unit
Service tag	Yes
Light Technical	
All-in Type	All-in, Multi Lumen
Color rendering index (CRI)	>80
Operating and Electrical	
Input Voltage	220-240 V
Line Frequency	50 or 60 Hz
Suitable for random switching	Yes
Mechanical and Housing	
Housing Color	White
Mech. impact protection code	IK03
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
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	0.4
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-10%

Light Technical

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Luminous Efficacy (rated) (Nom)	Luminous Flux	Optic type
911401882481	SM136V 31S_37S_43S/840 PSU W20L150 OC	4000 K	140 lm/W	3,100 lm	Beam angle 84°
911401881781	SM136V 31S_37S_43S/840 PSU W20L120 NOC	4000 K	140 lm/W	3,100 lm	Beam angle 100°
911401881681	SM136V 28S_34S_40S/830 PSU W20L120 NOC	3000 K	130 lm/W	2,800 lm	Beam angle 100°
911401882681	SM136V 31S_37S_43S/840 PSD W20L150 OC	4000 K	140 lm/W	3,100 lm	Beam angle 84°
911401882181	SM136V 31S_37S_43S/840 PSD W20L120 OC	4000 K	140 lm/W	3,100 lm	Beam angle 84°
911401881881	SM136V 31S_37S_43S/840 PSU W20L120 OC	4000 K	140 lm/W	3,100 lm	Beam angle 84°
911401882381	SM136V 31S_37S_43S/840 PSU W20L150 NOC	4000 K	140 lm/W	3,100 lm	Beam angle 100°
911401882581	SM136V 28S_34S_40S/830 PSD W20L150 OC	3000 K	130 lm/W	2,800 lm	Beam angle 84°
910505101246	SM136V 31S_37S_43S/840 PSUW20L120NOCELB3	4000 K	126 lm/W	3,100 lm	Wide beam
911401881981	SM136V 31S_37S_43S/840 PSD W20L120 NOC	4000 K	140 lm/W	3,100 lm	Beam angle 100°
911401882081	SM136V 28S_34S_40S/830 PSD W20L120 OC	3000 K	130 lm/W	2,800 lm	Beam angle 84°

Operating and Electrical

CoreLine surface-mounted

Order Code	Full Product Name	Protection class	Power
		IEC	Consumption
911401882481	SM136V 31S_37S_43S/840 PSU W20L150 OC	Safety class I	31 W
911401881781	SM136V 31S_37S_43S/840 PSU W20L120 NOC	Safety class I	31 W
911401881681	SM136V 28S_34S_40S/830 PSU W20L120 NOC	Safety class I	31 W
911401882681	SM136V 31S_37S_43S/840 PSD W20L150 OC	Safety class II	31 W
911401882181	SM136V 31S_37S_43S/840 PSD W20L120 OC	Safety class II	31 W
911401881881	SM136V 31S_37S_43S/840 PSU W20L120 OC	Safety class I	31 W

Order Code	Full Product Name	Protection class	Power
		IEC	Consumption
911401882381	SM136V 31S_37S_43S/840 PSU W20L150 NOC	Safety class I	31 W
911401882581	SM136V 28S_34S_40S/830 PSD W20L150 OC	Safety class II	31 W
910505101246	SM136V 31S_37S_43S/840 PSUW20L120NOCELB3	Safety class I	34 W
911401881981	SM136V 31S_37S_43S/840 PSD W20L120 NOC	Safety class II	31 W
911401882081	SM136V 28S_34S_40S/830 PSD W20L120 OC	Safety class II	31 W

Controls and Dimming

Order Code	Full Product Name	Maximum dim	
		Dimmable	level
911401882481	SM136V 31S_37S_43S/840 PSU W20L150 OC	No	-
911401881781	SM136V 31S_37S_43S/840 PSU W20L120 NOC	No	-
911401881681	SM136V 28S_34S_40S/830 PSU W20L120 NOC	No	-
911401882681	SM136V 31S_37S_43S/840 PSD W20L150 OC	Yes	3%
911401882181	SM136V 31S_37S_43S/840 PSD W20L120 OC	Yes	3%
911401881881	SM136V 31S_37S_43S/840 PSU W20L120 OC	No	-
911401882381	SM136V 31S_37S_43S/840 PSU W20L150 NOC	No	-

Order Code	Full Product Name	Maximum dim	
		Dimmable	level
911401882581	SM136V 28S_34S_40S/830 PSD W20L150 OC	Yes	3%
910505101246	SM136V 31S_37S_43S/840 PSUW20L120NOCELB3	No	-
911401881981	SM136V 31S_37S_43S/840 PSD W20L120 NOC	Yes	3%
911401882081	SM136V 28S_34S_40S/830 PSD W20L120 OC	Yes	3%

Emergency Operation

Order Code	Full Product Name	Rated duration of the emergency lighting (when fully charged)		
		Central Emergency	Emergency lighting	
911401882481	SM136V 31S_37S_43S/840 PSU W20L150 OC	-	-	-
911401881781	SM136V 31S_37S_43S/840 PSU W20L120 NOC	-	-	-
911401881681	SM136V 28S_34S_40S/830 PSU W20L120 NOC	-	-	-
911401882681	SM136V 31S_37S_43S/840 PSD W20L150 OC	-	-	-
911401882181	SM136V 31S_37S_43S/840 PSD W20L120 OC	-	-	-
911401881881	SM136V 31S_37S_43S/840 PSU W20L120 OC	-	-	-
911401882381	SM136V 31S_37S_43S/840 PSU W20L150 NOC	-	-	-

Order Code	Full Product Name	Rated duration of the emergency lighting (when fully charged)		
		Central Emergency	Emergency lighting	
911401882581	SM136V 28S_34S_40S/830 PSD W20L150 OC	-	-	-
910505101246	SM136V 31S_37S_43S/840 PSUW20L120NOCELB3	No	Emergency lighting 3 hours duration basic version	3 hour(s)
911401881981	SM136V 31S_37S_43S/840 PSD W20L120 NOC	-	-	-
911401882081	SM136V 28S_34S_40S/830 PSD W20L120 OC	-	-	-

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Approval and Application

Order Code	Full Product Name	Ambient temperature range
911401882481	SM136V 31S_37S_43S/840 PSU W20L150 OC	-10 to +40 °C
911401881781	SM136V 31S_37S_43S/840 PSU W20L120 NOC	-10 to +40 °C
911401881681	SM136V 28S_34S_40S/830 PSU W20L120 NOC	-10 to +40 °C
911401882681	SM136V 31S_37S_43S/840 PSD W20L150 OC	-10 to +40 °C
911401882181	SM136V 31S_37S_43S/840 PSD W20L120 OC	-10 to +40 °C
911401881881	SM136V 31S_37S_43S/840 PSU W20L120 OC	-10 to +40 °C

Order Code	Full Product Name	Ambient temperature range
911401882381	SM136V 31S_37S_43S/840 PSU W20L150 NOC	-10 to +40 °C
911401882581	SM136V 28S_34S_40S/830 PSD W20L150 OC	-10 to +40 °C
910505101246	SM136V 31S_37S_43S/840 PSUW20L120NOCELB3	0 to +25 °C
911401881981	SM136V 31S_37S_43S/840 PSD W20L120 NOC	-10 to +40 °C
911401882081	SM136V 28S_34S_40S/830 PSD W20L120 OC	-10 to +40 °C

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial chromaticity
911401882481	SM136V 31S_37S_43S/840 PSU W20L150 OC	(0.38, 0.38) SDCM ≤3
911401881781	SM136V 31S_37S_43S/840 PSU W20L120 NOC	(0.38, 0.38) SDCM ≤3
911401881681	SM136V 28S_34S_40S/830 PSU W20L120 NOC	(0.43, 0.40) SDCM ≤3
911401882681	SM136V 31S_37S_43S/840 PSD W20L150 OC	(0.38, 0.38) SDCM ≤3
911401882181	SM136V 31S_37S_43S/840 PSD W20L120 OC	(0.38, 0.38) SDCM ≤3
911401881881	SM136V 31S_37S_43S/840 PSU W20L120 OC	(0.38, 0.38) SDCM ≤3

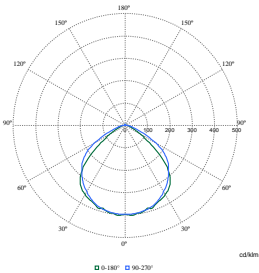
Order Code	Full Product Name	Initial chromaticity
911401882381	SM136V 31S_37S_43S/840 PSU W20L150 NOC	(0.38, 0.38) SDCM ≤3
911401882581	SM136V 28S_34S_40S/830 PSD W20L150 OC	(0.43, 0.40) SDCM ≤3
910505101246	SM136V 31S_37S_43S/840 PSUW20L120NOCELB3	(0.38, 0.38) SDCM ≤3
911401881981	SM136V 31S_37S_43S/840 PSD W20L120 NOC	(0.38, 0.38) SDCM ≤3
911401882081	SM136V 28S_34S_40S/830 PSD W20L120 OC	(0.43, 0.40) SDCM ≤3

Product Data

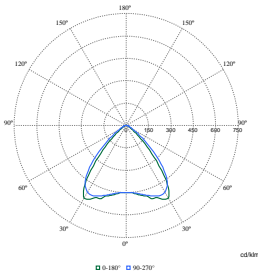
Order Code	Full Product Name	Product family code
911401882481	SM136V 31S_37S_43S/840 PSU W20L150 OC	-
911401881781	SM136V 31S_37S_43S/840 PSU W20L120 NOC	-
911401881681	SM136V 28S_34S_40S/830 PSU W20L120 NOC	-
911401882681	SM136V 31S_37S_43S/840 PSD W20L150 OC	-
911401882181	SM136V 31S_37S_43S/840 PSD W20L120 OC	-
911401881881	SM136V 31S_37S_43S/840 PSU W20L120 OC	-

Order Code	Full Product Name	Product family code
911401882381	SM136V 31S_37S_43S/840 PSU W20L150 NOC	-
911401882581	SM136V 28S_34S_40S/830 PSD W20L150 OC	-
910505101246	SM136V 31S_37S_43S/840 PSUW20L120NOCELB3	SM136V
911401881981	SM136V 31S_37S_43S/840 PSD W20L120 NOC	-
911401882081	SM136V 28S_34S_40S/830 PSD W20L120 OC	-

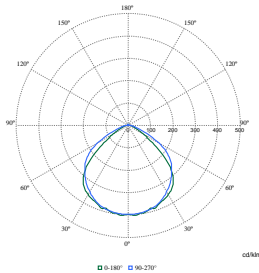
Polar Wide Diagrams



Polar Normal (separate) - SM136VI - 910505101246



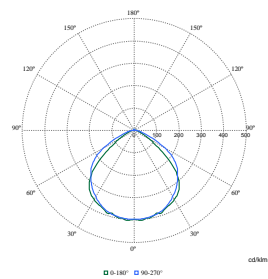
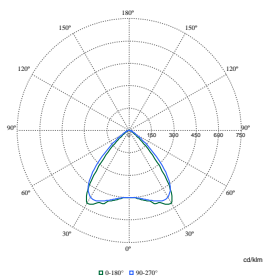
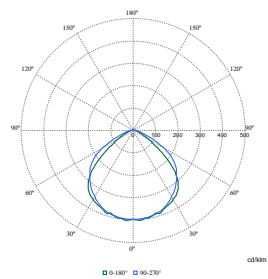
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CoreLine surface-mounted

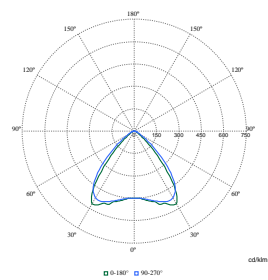
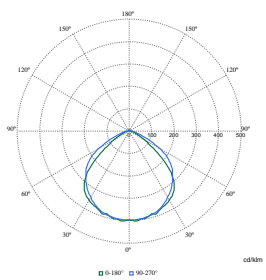
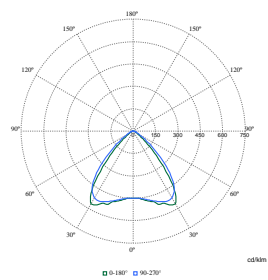
Polar Wide Diagrams



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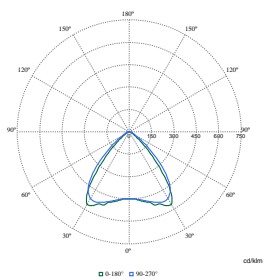
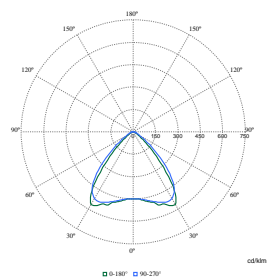
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Polar Normal (separate) - null - 911401882581



Polar Normal (separate) - null - 911401882681

Polar Normal (separate) - null - 911401882481

