

LINEARlight FLEX Protect ADVANCED

LED modules for professional and industrial applications



Areas of application

- Cove lighting
- Wall integration
- Hand rails and corridors
- Machine lighting
- Path lighting
- Signage
- Suitable for outdoor use

Product benefits

- Very long for seamless bands of light
- Great design freedom thanks to flexibility and cuttability of module
- High-performance silicone for extremely long life and flexibility
- Simple connection thanks to premounted connectors
- Extraordinary design and high quality materials
- Toolless connection with the optional CONNECTsystem
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back

Product features

- Flexible and cuttable LED strip
- Luminous flux: up to 390 lm/m
- Type of protection: IP67
- Dimmable
- Fine White (3.5 SDCM)
- Salt mist proof
- Highly UV-resistant



Product family datasheet

Technical data

Electrical data

Product description	Nominal voltage	Nominal current	Rated wattage	Nominal wattage per meter	Reverse Voltage	Type of current
LF06A -W3F-827-P ¹⁾	24.0 V	1.75 A	42.00 W	4.2 W	25 V	DC
LF06A -W3F-830-P ¹⁾	24.0 V	1.8 A	42.00 W	4.2 W	25 V	DC
LF06A -W3F-840-P ¹⁾	24.0 V	1.8 A	42.00 W	4.2 W	25 V	DC
LF06A -W3F-870-P ¹⁾	24.0 V	1.8 A	42.00 W	4.2 W	25 V	DC
LF05A -B3-P ¹⁾	24.0 V	3 A	72.00 W	7.3 W	25 V	DC

Product description	Input voltage range
LF06A -W3F-827-P ¹⁾	23...25 V
LF06A -W3F-830-P ¹⁾	23...25 V
LF06A -W3F-840-P ¹⁾	23...25 V
LF06A -W3F-870-P ¹⁾	23...25 V
LF05A -B3-P ¹⁾	23...25 V

¹⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

Photometrical data

Product description	Color temperature	Color rendering index Ra	Light color (designation)	Light color LED	Nominal dominant wavelength	Luminous flux per meter
LF06A -W3F-827-P ¹⁾	2700 K	>80	Warm White	White	-	400 lm
LF06A -W3F-830-P ¹⁾	3000 K	>80	Warm White	White	-	390 lm
LF06A -W3F-840-P ¹⁾	4000 K	>80	Cool White	White	-	390 lm
LF06A -W3F-870-P ¹⁾	7000 K	>80	Daylight	White	-	420 lm
LF05A -B3-P ¹⁾		-	Blue	Blue	467 nm	80 lm

Product description	Luminous flux	Luminous efficacy
LF06A -W3F-827-P ¹⁾	4000 lm	95 lm/W
LF06A -W3F-830-P ¹⁾	3500 lm	70 lm/W
LF06A -W3F-840-P ¹⁾	3900 lm	78 lm/W
LF06A -W3F-870-P ¹⁾	3900 lm	78 lm/W
LF05A -B3-P ¹⁾	840 lm	

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Product family datasheet

Light technical data

Product description	Beam angle
LF06A -W3F-827-P ¹⁾	120 °
LF06A -W3F-830-P ¹⁾	120 °
LF06A -W3F-840-P ¹⁾	120 °
LF06A -W3F-870-P ¹⁾	120 °
LF05A -B3-P ¹⁾	120 °

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LED module information

Product description	Number of LEDs per module	Number of LEDs per meter	Number of LEDs per smallest unit
LF06A -W3F-827-P ¹⁾	600	60	6
LF06A -W3F-830-P ¹⁾	600	60	6
LF06A -W3F-840-P ¹⁾	600	60	6
LF06A -W3F-870-P ¹⁾	600	60	6
LF05A -B3-P ¹⁾	495	50	5

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Dimensions & weight

Product description	Length	Length – smallest unit	Width	Height	Product weight
LF06A -W3F-827-P ¹⁾	10000 mm	100.0 mm	11.0 mm	3.7 mm	870.00 g
LF06A -W3F-830-P ¹⁾	10000 mm	150.0 mm	11.0 mm	3.7 mm	530.00 g
LF06A -W3F-840-P ¹⁾	10000 mm	100.0 mm	11.0 mm	3.7 mm	530.00 g
LF06A -W3F-870-P ¹⁾	10000 mm	100.0 mm	11.0 mm	3.7 mm	530.00 g
LF05A -B3-P ¹⁾	9900 mm ²⁾	100.0 mm	11.0 mm	4.5 mm	800.00 g

Product description	Cable length
LF06A -W3F-827-P ¹⁾	
LF06A -W3F-830-P ¹⁾	500.0 mm
LF06A -W3F-840-P ¹⁾	500.0 mm
LF06A -W3F-870-P ¹⁾	500.0 mm
LF05A -B3-P ¹⁾	500.0 mm

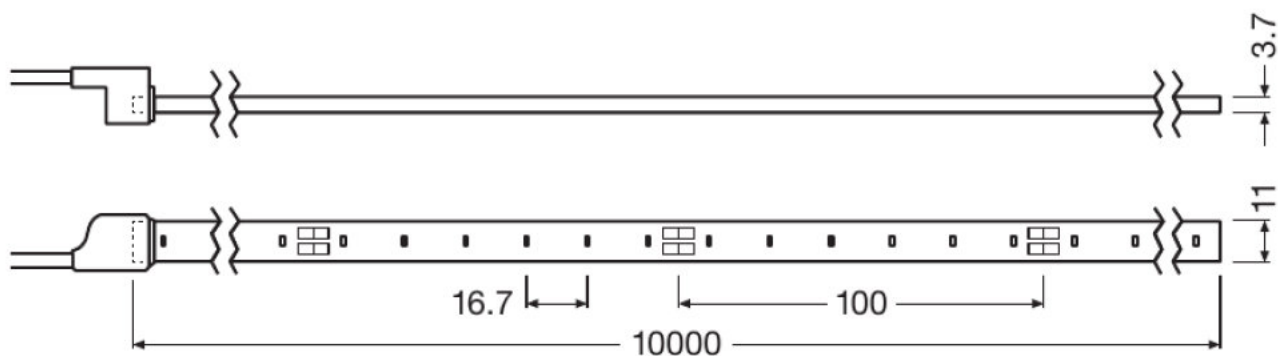
¹⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

Product family datasheet

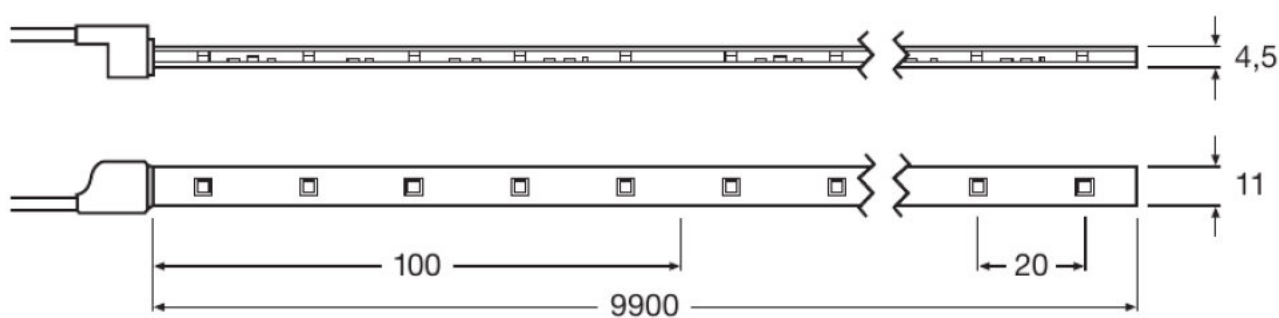
the typical values

2) LED pitch 20 mm

Product line drawing



LF06A -W3F-827-P, LF06A -W3F-830-P, LF06A -W3F-840-P, LF06A -W3F-870-P



LF05A -B3-P

Product family datasheet

Temperatures & operating conditions

Product description	Temperature range in operation
LF06A -W3F-827-P ¹⁾	-20...70 °C
LF06A -W3F-830-P ¹⁾	-20...75 °C
LF06A -W3F-840-P ¹⁾	-20...75 °C
LF06A -W3F-870-P ¹⁾	-20...75 °C
LF05A -B3-P ¹⁾	-30...75 °C ²⁾

¹⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values

²⁾ At the T_c point

Lifespan

Product description	Lifespan
LF06A -W3F-827-P ¹⁾	50000 h ²⁾
LF06A -W3F-830-P ¹⁾	50000 h ²⁾
LF06A -W3F-840-P ¹⁾	50000 h ²⁾
LF06A -W3F-870-P ¹⁾	50000 h ²⁾
LF05A -B3-P ¹⁾	50000 h ²⁾

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²⁾ L70/B50 at T_c 40 °C

Capabilities

Product description	Dimmable
LF06A -W3F-827-P ¹⁾	Yes
LF06A -W3F-830-P ¹⁾	Yes
LF06A -W3F-840-P ¹⁾	Yes
LF06A -W3F-870-P ¹⁾	Yes
LF05A -B3-P ¹⁾	Yes ²⁾

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²⁾ PWM

Product family datasheet

Certificates & standards

Product description	Energy consumption	Type of protection	Energy efficiency class
LF06A -W3F-827-P ¹⁾	42 kWh/1000h	IP67	A++ ²⁾
LF06A -W3F-830-P ¹⁾	46 kWh/1000h	IP67	A++ ²⁾
LF06A -W3F-840-P ¹⁾	46 kWh/1000h	IP67	A++ ²⁾
LF06A -W3F-870-P ¹⁾	46 kWh/1000h	IP67	A++ ²⁾
LF05A -B3-P ¹⁾		IP67	

Product description	Standards
LF06A -W3F-827-P ¹⁾	CE/UL/EAC
LF06A -W3F-830-P ¹⁾	CE/UL
LF06A -W3F-840-P ¹⁾	CE/UL
LF06A -W3F-870-P ¹⁾	CE/UL
LF05A -B3-P ¹⁾	Acc. to EN 60598-1

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²⁾ Applicable on smallest operable unit

Logistical data

Product description	Temperature range at storage
LF06A -W3F-827-P ¹⁾	-40...85 °C
LF06A -W3F-830-P ¹⁾	-40...85 °C
LF06A -W3F-840-P ¹⁾	
LF06A -W3F-870-P ¹⁾	
LF05A -B3-P ¹⁾	-40...85 °C

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Equipment / Accessories

- Simplified connection with optional matching CONNECTsystem
- Quick installation with optional SLIM TRACK System
- Perfectly matched to OPTOTRONIC 24 V electronic control gears

Application advice

For more detailed application information and graphics please see product datasheet.

Product family datasheet















Sales and Technical Support

Sales and Technical Support www.osram.com

Country specific information

Product description	Product code	METEL-Code	SEG-No.	STK number	UK Org
LF06A -W3F-830-P	4008321789983	-	-	4030319	-
LF06A -W3F-840-P	4008321790125	-	-	4030320	-
LF06A -W3F-870-P	4008321790149	-	-	4030321	-
LF05A -B3-P	4008321617804	OSRLF05AB3P	-	4031362	-

Download Data

File	
	Brochures Light is freedom of design (EN)
	Certificates UL Certificate
	Declarations of conformity Manufacturers Declaration
	Declarations of conformity Declaration of Conformity
	Addon Technical Information 685716_BinningSheet - LF06A-P
	Product Datasheet 342302_LINEARlight Flex Protect ADVANCED G2 – LF06A-P
	Brochures 496992_Technical application guide LINEARlight Flex Protect (GB)
	Declarations of conformity Declaration of conformity LINEARlight FLEX Protect ADVANCED & ECO
	Declarations of conformity Manufacturers Declaration of conformity LINEARlight FLEX Protect ADVANCED & ECO
	Declarations of conformity 485569_EC-DoC LF06A-P
	Declarations of conformity 485570_Manufacturers_DoC LF06A-P
	Eulumdat 343816_LINEARlight Flex Protect ADVANCED G2 - LF06A-W3F-840-P
	Eulumdat 343815_LINEARlight Flex Protect ADVANCED G2 - LF06A-W3F-870-P
	Product Datasheet 335842_LINEARlight Flex Protect LF05A-P (EN)

Product family datasheet



Declarations of conformity
466011_EC-DoC LF05A-E-P



Eulumdat
327873_LINEARlight Flex Protect LF05A-B3-P

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899557765	LF06A -W3F-827-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8458.00 g
4008321789983	LF06A -W3F-830-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8400.00 g
4008321790125	LF06A -W3F-840-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	7338.00 g
4008321790149	LF06A -W3F-870-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	7338.00 g
4008321617804	LF05A -B3-P	Shipping carton box 8	366 mm x 380 mm x 286 mm	39.78 dm ³	8971.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Accessories Optional

Product description	Accessory name	Accessory code
LF06A -W3F-830-P	LINEARlight FLEX, -2100	▶ 4008321978998
LF06A -W3F-830-P	LINEARlight FLEX Protect, -ENDCAP IP67 LP	▶ 4052899902572
LF06A -W3F-830-P	LINEARlight FLEX, -SC08-G2-C2PF-IP54-0500	▶ 4052899464902
LF06A -W3F-830-P	LINEARlight FLEX, -SC08-G2-C2PF-IP54-0500	▶ 4052899488250
LF06A -W3F-830-P	LINEARlight FLEX, -SC08-G2--BTJ-IP54	▶ 4052899568877
LF06A -W3F-840-P	LINEARlight FLEX, -2100	▶ 4008321978998
LF06A -W3F-840-P	LINEARlight FLEX Protect, -ENDCAP IP67 LP	▶ 4052899902572
LF06A -W3F-840-P	LINEARlight FLEX, -SC08-G2-C2PF-IP54-0500	▶ 4052899464902
LF06A -W3F-840-P	LINEARlight FLEX, -SC08-G2-C2PF-IP54-0500	▶ 4052899488250
LF06A -W3F-840-P	LINEARlight FLEX, -SC08-G2--BTJ-IP54	▶ 4052899568877
LF06A -W3F-870-P	LINEARlight FLEX, -2100	▶ 4008321978998
LF06A -W3F-870-P	LINEARlight FLEX Protect, -ENDCAP IP67 LP	▶ 4052899902572
LF06A -W3F-870-P	LINEARlight FLEX, -SC08-G2-C2PF-IP54-0500	▶ 4052899464902
LF06A -W3F-870-P	LINEARlight FLEX, -SC08-G2-C2PF-IP54-0500	▶ 4052899488250
LF06A -W3F-870-P	LINEARlight FLEX, -SC08-G2--BTJ-IP54	▶ 4052899568877
		▶ 4008321977113

Product family datasheet

LF05A -B3-P	LINEARlight FLEX Protect, -2PIN Protect	
LF05A -B3-P	LINEARlight FLEX Protect, -2CONN Protect	▶ 4008321977137
LF05A -B3-P	LINEARlight FLEX Protect, -ENDCAP Protect	▶ 4008321977151
LF05A -B3-P	LINEARlight FLEX Protect, -FIXTURE PROTECT	▶ 4008321644756
LF05A -B3-P	LINEARlight FLEX, -2100	▶ 4008321978998

References / Links

System configurator tool is available online at <https://flex.osram.info/en/flex-configurator>

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.