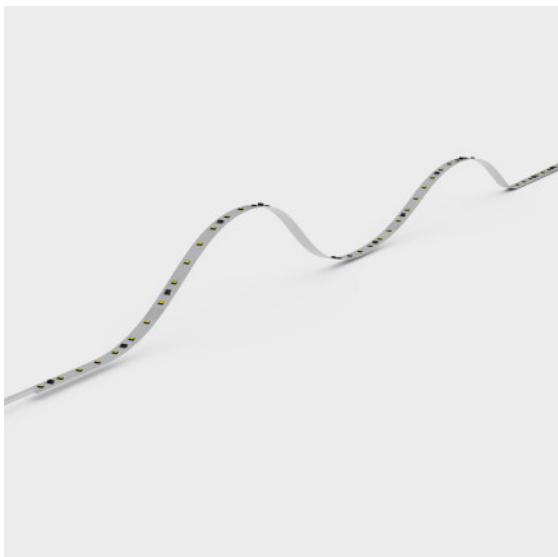


LINEARlight FLEX Low Power IP00

– LED modules for professional and industrial applications



Product family benefits

- Color consistency up to 2 SDCM on entire light strip thanks to Single-bin technology
- Color rendering options R_a : 80 and 90
- Service lifetime (L80/B10): up to 60,000 h
- LM79 and LM80 compliant
- Embedded constant current regulators
- No solder-joints on circuit board
- Flexible and cuttable LED strips
- Dimmable (with suitable PWM dimming methods)

Areas of application

- For high-end application with dedicated equipment and accessories



Product family datasheet

Technical data

Product description	Electrical data						Photometrical data
	Nominal voltage	Type of current	Nominal wattage per meter	Rated wattage	Input voltage range	Accidental reverse input voltage protection up to	Light color LED
LF500 -G1-925-10 L2	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V	White
LF500 -G1-927-10 L2	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V	White
LF500 -G1-930-10 L2	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V	White
LF500 -G1-940-10 L2	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V	White
LF500 -G1-840-10 L2	24.0 V	DC	3.9 W	39.00 W	23...25 V	25 V	

Product description	Color rendering index Ra	Luminous flux per meter	Total useful luminous flux	Luminous efficacy	Standard deviation of color matching	Light color (designation)
LF500 -G1-925-10 L2	≥90	400 lm	4000 lm	103 lm/W	≤3 sdc	2500 K
LF500 -G1-927-10 L2	≥90	400 lm	4000 lm	103 lm/W	≤3 sdc	2700 K
LF500 -G1-930-10 L2	≥90	400 lm	4000 lm	103 lm/W	≤3 sdc	3000 K
LF500 -G1-940-10 L2	≥90	440 lm	4400 lm	113 lm/W	≤3 sdc	4000 K
LF500 -G1-840-10 L2	>80	520 lm	5200 lm	133 lm/W	≤3 sdc	4000 K

Product description	Color temperature	Light technical data				LED module information	
		LED pitch	Beam angle	Starting time	Warm-up time (60 %)	Number of LEDs per meter	Number of LEDs per smallest unit
LF500 -G1-925-10 L2	2485 K	14.29 mm	120 °	< 0.5 s	< 0.50 s	70	7
LF500 -G1-927-10 L2	2750 K	14.29 mm	120 °	< 0.5 s	< 0.50 s	70	7
LF500 -G1-930-10 L2	3065 K	14.29 mm	120 °	< 0.5 s	< 0.50 s	70	7
LF500 -G1-940-10 L2	4030 K	14.29 mm	120 °	< 0.5 s	< 0.50 s	70	7
LF500 -G1-840-10 L2	4000 K	14.29 mm	120 °	< 0.5 s	< 0.50 s	70	7

Product description	Dimensions & weight			Temperatures & operating conditions		
	Length	Length – smallest unit	Product weight	Performance temp. acc. to IEC 62717	Temperature range in operation at Tc point	Temperature range at storage
LF500 -G1-925-10 L2	10000 mm	100.0 mm	86.40 g	35 °C	-30...75 °C ¹⁾	-40...85 °C
LF500 -G1-927-10 L2	10000 mm	100.0 mm	86.40 g	35 °C	-30...75 °C ¹⁾	-40...85 °C
LF500 -G1-930-10 L2	10000 mm	100.0 mm	86.40 g	35 °C	-30...75 °C ¹⁾	-40...85 °C
LF500 -G1-940-10 L2	10000 mm	100.0 mm	86.40 g	35 °C	-30...75 °C ¹⁾	-40...85 °C
LF500 -G1-840-10 L2	10000 mm	100.0 mm	86.40 g	35 °C	-30...75 °C ¹⁾	-40...+85 °C

Product family datasheet

Product description	Ambient temperature range	Lifespan			
		Rated lamp life time	Nominal lamp life time	Lumen main. fact. at end of nom. life time	Number of switching cycles
LF500 -G1-925-10 L2		60000 h	60000 h	0.70	15000
LF500 -G1-927-10 L2		60000 h	60000 h	0.70	15000
LF500 -G1-930-10 L2		60000 h	60000 h		15000
LF500 -G1-940-10 L2		60000 h	60000 h	0.70	15000
LF500 -G1-840-10 L2	-30...+50 °C ²⁾	60000 h	60000 h	0.70	> 15000

Product description	Additional product data		Capabilities	
	ID of contained light source	Predecessor EAN	Lowest bending radius	Self-adhesive
LF500 -G1-925-10 L2	LS_TRV_285890		20 mm	Yes
LF500 -G1-927-10 L2	LS_TRV_274093		20 mm	Yes
LF500 -G1-930-10 L2	LS_TRV_274094		20 mm	Yes
LF500 -G1-940-10 L2	LS_TRV_274096		20 mm	Yes
LF500 -G1-840-10 L2	LS_TRV_274089	4052899575233	20 mm	Yes

Product description	With connection set	With end piece	Certificates & standards	
			Energy consumption	Standards
LF500 -G1-925-10 L2	No	No	43 kWh/1000h	CE/UL/ENEC/EAC
LF500 -G1-927-10 L2	No	No	43 kWh/1000h	CE/UL/ENEC/EAC
LF500 -G1-930-10 L2	No	No	43 kWh/1000h	CE/UL/ENEC/EAC
LF500 -G1-940-10 L2	No	No	43 kWh/1000h	CE/UL/ENEC/EAC
LF500 -G1-840-10 L2	No	No	43 kWh/1000h	CE/UL/ENEC/EAC

Product description	Type of protection	Energy efficiency class of the contained light source	Logistical data	Environmental information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)
			Commodity code	Date of Declaration
LF500 -G1-925-10 L2	IP20	F	85395100000	21-04-2023
LF500 -G1-927-10 L2	IP20	F	85395100000	07-07-2023
LF500 -G1-930-10 L2	IP20	F	85395100000	07-07-2023
LF500 -G1-940-10 L2	IP20	F	85395100000	07-07-2023
LF500 -G1-840-10 L2	IP20	E	85395100000	07-07-2023

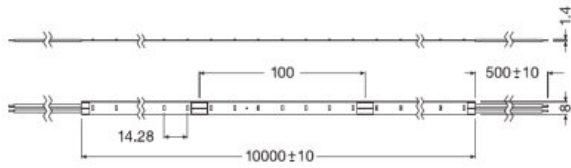
Product family datasheet

Product description	Primary Article Identifier	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction
LF500 -G1-925-10 L2	4062172272056	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
LF500 -G1-927-10 L2	4062172272070	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
LF500 -G1-930-10 L2	4062172272094	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
LF500 -G1-940-10 L2	4062172272131	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.
LF500 -G1-840-10 L2	4062172142373	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.

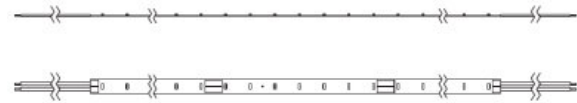
Product description	Declaration No. in SCIP database
LF500 -G1-925-10 L2	f9dc1461-ffc1-439f-9a45-4d953e74c920
LF500 -G1-927-10 L2	66917f36-0515-40bc-839b-31cd32cf214a
LF500 -G1-930-10 L2	93857245-ef62-45c2-a563-ad6defb8cb90
LF500 -G1-940-10 L2	a3aef31c-c941-41a7-a7da-19928fd760df
LF500 -G1-840-10 L2	0e759a3b-d142-4785-a773-00aee3c6f638

1) Exceeding the maximum ratings will reduce expected life time or destroy the LED strip.
2) Rated ambient temp. 25°C/Providing that temperature at Tc point is below max value during operation/Temperature ramping for environmental testing acc. to IEC 62717, 1K/min

Product family datasheet



LINEARlight Flex Low Power Drawing LF500 L2



LINEARlight Flex Low Power Drawing LF500 L2

Equipment / Accessories

- Flexessories: a complete set of aluminum channels with diffusers and lenses
- Connectors: quick-and-easy toolless installation with SLIMCONNECTsystem G2
- Drivers and dimmers: wide selection of OPTOTRONIC 24 V DALI, DMX and BLE
- Check for more detailed information the specification sheets in the download section

Application advice

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

Additional product information

- Some LED modules are equipped with a self-adhesive tape for attaching the LED module to suitable materials, such as aluminum profiles, which must be clean and free of oil or silicone coatings, as well as other dirt/dust particles. The adhesive tape is intended for single use and if removed may damage the material to which it is stuck and the LED module itself, which must then be scrapped. Use the adhesive tape when the installation material temperature is in the 18 °C...35 °C range. Complete adhesion takes up to 72 h.
- LED modules are designed for static installations in accordance with IPC 6013C – Use A. Take material vibrations, repetitive torsion, and elongation/compression into account.
- If the operating environment covers a broad temperature range (e.g. outdoor applications) and the operating length is longer than 2 m, the use of adequate mounting surfaces is required. The use of an additional thicker adhesive tape between LED module and mounting surface is also recommended in order to absorb the stress of any mismatch in expansion. Assure enough space for module expansion with increasing temperature.
- The manufacturer is not responsible for damage due to chemical corrosion. The user must provide suitable protection against corrosive agents such as moisture and condensation and any other harmful elements/compounds. Make certain to avoid corrosive atmospheres. According to the current state of LED technology, hydrogen sulfide (H₂S) causes accelerated corrosion which leads to shortened lifetime or premature failure. Sources of H₂S may be rubber, foam rubber, soft-foam tapes, rubber-based sealing, natural sources (e.g. sulfur springs), etc. To avoid H₂S from sulfur-vulcanized rubber use silicon-based materials or peroxide-crosslinked rubber instead. Follow the recommendations in the material datasheet of the rubber supplier.
- IP00 LED modules, as manufactured, have no conformal coating and therefore offer no inherent protection against corrosion. Conformal coating treatment is possible, however materials must be selected properly in order to avoid product damage or impaired performance; the user must also completely seal the cut parts (ends/edges).
- For applications involving exposure to humidity and dust the module must be protected by a fixture or housing with a suitable IP protection class.
- Consult OSRAM Technical Service for further advice.
- Only a qualified electrician may install the module.
- Handle with care and ensure that there is no mechanical product damage, including damage to invisible internal electronics parts.
- Exceeding maximum operating and storage temperature ratings can reduce the expected lifetime or even destroy the LED module. The temperature of the LED module must be measured at the T_c-point in accordance with EN 60598-1 under steady-state conditions, considering the worst case; drive all channels at 100 % power. Refer to the product drawing for the exact location of the T_c-point.
- Exceeding the maximum ratings for the operating voltage causes hazardous overload and will likely destroy the LED module.
- Installation of LED modules and connection to the power supply must comply with all applicable electrical and safety standards.
- Observe correct polarity and wiring diagrams! Incorrect polarity or wrong wiring can cause unpredictable permanent damage or even failure of the product.
- Never exceed the maximum operable length, including daisy-chaining connections.
- Always ensure electrical isolation between the LED module and the mounting surface, especially in the vicinity of connections or cut ends.
- IP00 LED modules are ESD-sensitive; take adequate precautions during installation and operation of the products.
- Use only SELV LED drivers in accordance with applicable lighting standards and LED module ratings. In order to safely operate OSRAM LED modules it is necessary to supply them with an electronically stabilized power supply providing protection against short circuits, overload and overheating. To simplify the approval process of the luminaire/installation, the electronic power supplies control gear for LED modules must bear the CE and ENEC marking. In Europe the Declarations of Conformity must include at least the following standards: EN 61347-2-13, EN 55015, EN 61547 and EN 61000-3-2. ENEC certification will be based on EN 61347-2-13 and EN 62384. OSRAM OPTOTRONIC LED drivers comply with all relevant standards and guarantee safe operation; see the relevant brochure for more detailed information about OSRAM OPTOTRONIC.
- Avoid installations in rural and urban areas with high industrial activity and heavy traffic (higher than class than 4C1 according IEC 60721-3) and as well as installation in spa, areas with chlorine atmosphere, direct exposure to blown sand.

Sales and Technical Support

Product family datasheet

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction LINEARlight FLEX Low Power
	Product Datasheet LINEARlight FLEX Low Power LF500 L2 Specification Sheet (EN)
	Brochures Light is freedom of design (EN)
	Certificates VDE-ENEC Certificate
	Declarations of conformity LF500-G1 CE 3657641 221121
	Declarations of conformity Manufacturers Declaration of Conformity 3657643
	Eulumdat LF500-G1-925-10 L2 LTD 151220
	IES data LF500-G1-925-10 L2 IES 151220
	Eulumdat Eulumdat LF500-G1-927-10
	IES data IES data LF500-G1-927-10
	Eulumdat Eulumdat LF500-G1-930-10
	IES data IES data LF500-G1-930-10
	Eulumdat Eulumdat LF500-G1-840-10
	IES data IES data LF500-G1-840-10

Product family datasheet

Ecodesign regulation information:

- This product is considered to be a "containing product" in the sense of Regulations (EU) 2019/2020 and (EU) 2019/2015.
- Tolerances of the reported values, are according to LED Modules Performance standard IEC/EN 62717.
- In general, the replacement of the contained light sources without permanent damage to the product with the use of common available tools is possible in the final application when they can be dismantled from the installation environment and substituted for the necessary number of light sources restoring its full electrical/mechanical/thermal/optical functionality by means of a professional installer. In the contrary, and limited to the LINEARlight Flex Diffuse, LINEARlight Rigid Finesse, GINO LED Flex Diffuse and LUMINENT Milky product families, the contained light source is an integrated part of the containing product and its removal can only be done by causing a permanent damage to the containing product due to its tight mechanical, electrical, optical, thermal interaction and/or environmental protection with or from the containing product. Therefore, a replacement of the light source with the use of common available tools is not justified.
- Dismantling of light sources from containing products at end of life: Containing products with light sources which are scalable in length can be cut to the length of the contained light source and if applicable mechanically detached from protective and/or optical covers. Containing products shall be separated from building material and/or from other additional mounting accessories by means of a professional installer. Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172272056	LF500 -G1-925-10 L2	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1624.00 g
4062172272070	LF500 -G1-927-10 L2	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1624.00 g
4062172272094	LF500 -G1-930-10 L2	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1624.00 g
4062172272131	LF500 -G1-940-10 L2	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1624.00 g
4062172142373	LF500 -G1-840-10 L2	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1624.00 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
LF500 -G1-925-10 L2	CONN-FLEX -2P-050 KIT 10PCS	▶ 4062172179591
LF500 -G1-925-10 L2	CONN-FLEX -2P-200 KIT 10PCS	▶ 4062172179614
LF500 -G1-925-10 L2	CORNER-FLEX -4P-003 KIT 10PCS	▶ 4062172179638
LF500 -G1-925-10 L2	CORNER-FLEX -4P-015 KIT 10PCS	▶ 4062172179676

Product family datasheet

LF500 -G1-925-10 L2	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
LF500 -G1-925-10 L2	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
LF500 -G1-925-10 L2	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
LF500 -G1-925-10 L2	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
LF500 -G1-925-10 L2	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
LF500 -G1-925-10 L2	FX -SC08-G2-CT4PJ	▶ 4052899464858
LF500 -G1-925-10 L2	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
LF500 -G1-927-10 L2	CONN-FLEX -2P-050 KIT 10PCS	▶ 4062172179591
LF500 -G1-927-10 L2	CONN-FLEX -2P-200 KIT 10PCS	▶ 4062172179614
LF500 -G1-927-10 L2	CORNER-FLEX -4P-003 KIT 10PCS	▶ 4062172179638
LF500 -G1-927-10 L2	CORNER-FLEX -4P-015 KIT 10PCS	▶ 4062172179676
LF500 -G1-927-10 L2	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
LF500 -G1-927-10 L2	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
LF500 -G1-927-10 L2	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
LF500 -G1-927-10 L2	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
LF500 -G1-927-10 L2	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
LF500 -G1-927-10 L2	FX -SC08-G2-CT4PJ	▶ 4052899464858
LF500 -G1-927-10 L2	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
LF500 -G1-930-10 L2	CONN-FLEX -2P-050 KIT 10PCS	▶ 4062172179591
LF500 -G1-930-10 L2	CONN-FLEX -2P-200 KIT 10PCS	▶ 4062172179614
LF500 -G1-930-10 L2	CORNER-FLEX -4P-003 KIT 10PCS	▶ 4062172179638
LF500 -G1-930-10 L2	CORNER-FLEX -4P-015 KIT 10PCS	▶ 4062172179676
LF500 -G1-930-10 L2	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
LF500 -G1-930-10 L2	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
LF500 -G1-930-10 L2	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
LF500 -G1-930-10 L2	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
LF500 -G1-930-10 L2	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
LF500 -G1-930-10 L2	FX -SC08-G2-CT4PJ	▶ 4052899464858
LF500 -G1-930-10 L2	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
LF500 -G1-940-10 L2	CONN-FLEX -2P-050 KIT 10PCS	▶ 4062172179591
LF500 -G1-940-10 L2	CONN-FLEX -2P-200 KIT 10PCS	▶ 4062172179614
LF500 -G1-940-10 L2	CORNER-FLEX -4P-003 KIT 10PCS	▶ 4062172179638
LF500 -G1-940-10 L2	CORNER-FLEX -4P-015 KIT 10PCS	▶ 4062172179676
LF500 -G1-940-10 L2	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
LF500 -G1-940-10 L2	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
LF500 -G1-940-10 L2	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
LF500 -G1-940-10 L2	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
LF500 -G1-940-10 L2	FX-QMS-G1 -TU16H12-300	▶ 4052899448964

Product family datasheet

LF500 -G1-940-10 L2	FX -SC08-G2-CT4PJ	▶ 4052899464858
LF500 -G1-940-10 L2	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046
LF500 -G1-840-10 L2	CONN-FLEX -2P-050 KIT 10PCS	▶ 4062172179591
LF500 -G1-840-10 L2	CONN-FLEX -2P-200 KIT 10PCS	▶ 4062172179614
LF500 -G1-840-10 L2	CORNER-FLEX -4P-003 KIT 10PCS	▶ 4062172179638
LF500 -G1-840-10 L2	CORNER-FLEX -4P-015 KIT 10PCS	▶ 4062172179676
LF500 -G1-840-10 L2	LTS-SLIMTRACK -2000 KIT 5 PCS	▶ 4062172207300
LF500 -G1-840-10 L2	FX-QMS-G1 -TU15H6-300	▶ 4052899448865
LF500 -G1-840-10 L2	FX-QMS-G1 -TU15H6W3-300	▶ 4052899448889
LF500 -G1-840-10 L2	FX-QMS-G1 -TU16H12W3-300	▶ 4052899448988
LF500 -G1-840-10 L2	FX-QMS-G1 -TU16H12-300	▶ 4052899448964
LF500 -G1-840-10 L2	FX -SC08-G2-CT4PJ	▶ 4052899464858
LF500 -G1-840-10 L2	FX-QMS-G1 -TU16H12LS-300	▶ 4052899449046

Disclaimer

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