

LINEARlight FLEX Protect ShortPitch

– 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
- Type of protection: IP67 due to high performance silicon
- 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
LFP800S -G4-827-10	24.0 V	DC	7.7 W	77.00 W	23...25 V	25 V	White
LFP800S -G4-830-10	24.0 V	DC	7.7 W	77.00 W	23...25 V	25 V	White
LFP800S -G4-835-10	24.0 V	DC	7.7 W	77.00 W	23...25 V	25 V	White
LFP800S -G4-840-10	24.0 V	DC	7.0 W	70.00 W	23...25 V	25 V	White
LFP800S -G4-927-10	24.0 V	DC	7.0 W	70.00 W	23...25 V	25 V	White
LFP800S -G4-935-10	24.0 V	DC	7.0 W	70.00 W	23...25 V	25 V	White
LFP800S -G4-940-10	24.0 V	DC	7.0 W	70.00 W	23...25 V	25 V	White
LFP800S -G4-965-10	24.0 V	DC	7.0 W	70.00 W	23...25 V	25 V	White

Product description	Color temperature	Color rendering index Ra	Luminous flux per meter	Total useful luminous flux	Luminous efficacy	Standard deviation of color matching	Light color (designation)
LFP800S -G4-827-10	2690 K	≥80	740 lm	7400 lm	96 lm/W	≤3 sdc	2700 K
LFP800S -G4-830-10	3095 K	≥80	800 lm	8000 lm	104 lm/W	≤3 sdc	3000 K
LFP800S -G4-835-10	3460 K	≥80	800 lm	8000 lm	104 lm/W	≤3 sdc	3500 K
LFP800S -G4-840-10	4015 K	≥80	800 lm	8000 lm	114 lm/W	≤3 sdc	4000 K
LFP800S -G4-927-10	2690 K	≥90	550 lm	5500 lm	79 lm/W	≤3 sdc	2700 K
LFP800S -G4-935-10	3460 K	≥90	620 lm	6200 lm	89 lm/W	≤3 sdc	3500 K
LFP800S -G4-940-10	4015 K	≥90	620 lm	6200 lm	89 lm/W	≤3 sdc	4000 K
LFP800S -G4-965-10	5775 K	≥90	680 lm	6800 lm	97 lm/W	≤3 sdc	6500 K

Product description	Light technical data					LED module information
	LED pitch	Beam angle	Rated beam angle (half peak value)	Starting time	Warm-up time (60 %)	Number of LEDs per meter
LFP800S -G4-827-10	8.33 mm	120 °	120.00 °	< 0.5 s	< 0.50 s	120
LFP800S -G4-830-10	8.33 mm	120 °	120.00 °	< 0.5 s	< 0.50 s	120
LFP800S -G4-835-10	8.33 mm	120 °	120.00 °	< 0.5 s	< 0.50 s	120
LFP800S -G4-840-10	8.33 mm	120 °	120.00 °	< 0.5 s	< 0.50 s	120
LFP800S -G4-927-10	8.33 mm	120 °	120.00 °	< 0.5 s	< 0.50 s	120
LFP800S -G4-935-10	8.33 mm	120 °	120.00 °	< 0.5 s	< 0.50 s	120
LFP800S -G4-940-10	8.33 mm	120 °	120.00 °	< 0.5 s	< 0.50 s	120
LFP800S -G4-965-10	8.33 mm	120 °	120.00 °	< 0.5 s	< 0.50 s	120

Product family datasheet

Product description	Number of LEDs per smallest unit	Maximum operable length	Dimensions & weight			
			Length	Length – smallest unit	Width	Height
LFP800S -G4-827-10	6	10000 mm ¹⁾	10000 mm	50.0 mm	11.1 mm	3.70 mm
LFP800S -G4-830-10	6	10000 mm ¹⁾	10000 mm	50.0 mm	11.1 mm	3.70 mm
LFP800S -G4-835-10	6	10000 mm ¹⁾	10000 mm	50.0 mm	11.1 mm	3.70 mm
LFP800S -G4-840-10	6	10000 mm ¹⁾	10000 mm	50.0 mm	11.1 mm	3.70 mm
LFP800S -G4-927-10	6	10000 mm ¹⁾	10000 mm	50.0 mm	11.1 mm	3.70 mm
LFP800S -G4-935-10	6	10000 mm ¹⁾	10000 mm	50.0 mm	11.1 mm	3.70 mm
LFP800S -G4-940-10	6	10000 mm ¹⁾	10000 mm	50.0 mm	11.1 mm	3.70 mm
LFP800S -G4-965-10	6	10000 mm ¹⁾	10000 mm	50.0 mm	11.1 mm	3.70 mm

Product description	Cable length	Product weight	Colors & materials		Temperatures & operating conditions
			Cover material	Body material	Performance temp. acc. to IEC 62717
LFP800S -G4-827-10	500.0	593.80 g	Silicone	Silicone	40 °C
LFP800S -G4-830-10	500.0	593.80 g	Silicone	Silicone	40 °C
LFP800S -G4-835-10	500.0	593.80 g	Silicone	Silicone	40 °C
LFP800S -G4-840-10	500.0	593.80 g	Silicone	Silicone	40 °C
LFP800S -G4-927-10	500.0	593.80 g	Silicone	Silicone	40 °C
LFP800S -G4-935-10	500.0	593.80 g	Silicone	Silicone	40 °C
LFP800S -G4-940-10	500.0	593.80 g	Silicone	Silicone	40 °C
LFP800S -G4-965-10	500.0	593.80 g	Silicone	Silicone	40 °C

Product description	Temperature range in operation at Tc point	Ambient temperature range	Temperature range at storage	Lifespan	
				Rated lamp life time	Nominal lamp life time
LFP800S -G4-827-10	-30...70 °C ²⁾	-30...+50 °C ³⁾	-40...+85 °C	60000 h ⁴⁾	60000 h
LFP800S -G4-830-10	-30...70 °C ²⁾	-30...+50 °C ³⁾	-40...+85 °C	60000 h ⁴⁾	60000 h
LFP800S -G4-835-10	-30...70 °C ²⁾	-30...+50 °C ³⁾	-40...+85 °C	60000 h ⁴⁾	60000 h
LFP800S -G4-840-10	-30...70 °C ²⁾	-30...+50 °C ³⁾	-40...+85 °C	60000 h ⁴⁾	60000 h
LFP800S -G4-927-10	-30...70 °C ²⁾	-30...+50 °C ³⁾	-40...+85 °C	60000 h ⁴⁾	60000 h
LFP800S -G4-935-10	-30...70 °C ²⁾	-30...+50 °C ³⁾	-40...+85 °C	60000 h ⁴⁾	60000 h
LFP800S -G4-940-10	-30...70 °C ²⁾	-30...+50 °C ³⁾	-40...+85 °C	60000 h ⁴⁾	60000 h
LFP800S -G4-965-10	-30...70 °C ²⁾	-30...+50 °C ³⁾	-40...+85 °C	60000 h ⁴⁾	60000 h

Product description	Lumen main. fact. at end of nom. life time	Number of switching cycles	Additional product data		
			Successor EAN	Predecessor EAN	ID of contained light source
LFP800S -G4-827-10	0.70	15000	4062172170512	4052899481589	LS_TRV_27 4072
LFP800S -G4-830-10	0.70	15000	4062172170536	4052899953352	

Product family datasheet

Product description	Lumen main. fact. at end of nom. life time	Number of switching cycles	Additional product data		
			Successor EAN	Predecessor EAN	ID of contained light source
LFP800S -G4-835-10	0.70	15000	4062172170550		LS_TRV_27 4074
LFP800S -G4-840-10	0.70	15000	4062172170574	4052899953369	LS_TRV_27 4075
LFP800S -G4-927-10	0.70	15000	4062172170710		
LFP800S -G4-935-10	0.70	15000	4062172170758		
LFP800S -G4-940-10	0.70	15000	4062172170772		
LFP800S -G4-965-10	0.70	15000	4062172170819		

Product description	Capabilities	Certificates & standards		
	Lowest bending radius	Energy consumption	Standards	Type of protection
LFP800S -G4-827-10	50 mm	85 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP67
LFP800S -G4-830-10	50 mm	85 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP67
LFP800S -G4-835-10	50 mm	85 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP67
LFP800S -G4-840-10	50 mm	77 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP67
LFP800S -G4-927-10	50 mm	77 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP67
LFP800S -G4-935-10	50 mm	77 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP67

Product family datasheet

Product description	Capabilities	Certificates & standards		
	Lowest bending radius	Energy consumption	Standards	Type of protection
LFP800S -G4-940-10	50 mm	77 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP67
LFP800S -G4-965-10	50 mm	77 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP67

Product description	Energy efficiency class of the contained light source	Logistical data	Environmental information	
		Commodity code	Date of Declaration	Primary Article Identifier
LFP800S -G4-827-10	F	940540399000	10-11-2021	4052899575677
LFP800S -G4-830-10		940540399000	10-11-2021	4052899575714
LFP800S -G4-835-10	F	940540399000	10-11-2021	4052899575776
LFP800S -G4-840-10	F	940540399000	10-11-2021	4052899575837
LFP800S -G4-927-10		940540399000	10-11-2021	4052899595231
LFP800S -G4-935-10		940540399000	10-11-2021	4052899576032
LFP800S -G4-940-10		940540399000	10-11-2021	4052899576056
LFP800S -G4-965-10		940540399000	10-11-2021	4052899576070

Product description	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
LFP800S -G4-827-10	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	6d964375-5e63-4bdf-a9ba-b2f53ac15fc6
LFP800S -G4-830-10	No declarable substances contained	No CAS		No declarable substances contained
LFP800S -G4-835-10	No declarable substances contained	No CAS		No declarable substances contained
LFP800S -G4-840-10	Lead	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	5de2ba6c-9658-461f-ba49-a6907d50a9e3
LFP800S -G4-927-10	No declarable substances contained	No CAS		No declarable substances contained
LFP800S -G4-935-10	No declarable substances contained	No CAS		No declarable substances contained

Product family datasheet

Product description	Candidate List Substance 1	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
LFP800S -G4-940-10	No declarable substances contained	No CAS		No declarable substances contained
LFP800S -G4-965-10	No declarable substances contained	No CAS		No declarable substances contained

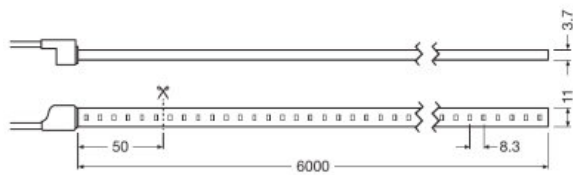
1) Max. cumulative product length powering it from a single end

2) Exceeding the maximum ratings will reduce expected life time or destroy the LED strip.

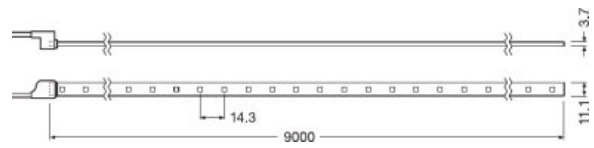
3) Rated ambient temp. 25°C/Providing that temperature at T_c point is below max value during operation/Temperature ramping for environmental testing acc. to IEC 62717, 1K/min

4) L70/B50 at T_c 40 °C

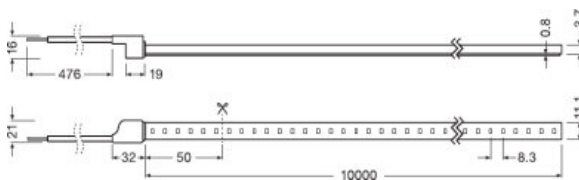
Product family datasheet



388002_LINEARlight FLEX ShortPitch Protect - LF06S-P



LF Protect Power 800



LINEARlight_FLEX_Protect_ShortPitch_800

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 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 Protect
	Product Datasheet LINEARlight FLEX Protect ShortPitch LFP800S Specification Sheet (EN)
	Brochures Light is freedom of design (EN)
	Certificates VDE-ENEC Certificate
	Certificates EAC Certificate
	Certificates UL Certificate
	Certificates UL Certificate-20180523-E346592
	Declarations of conformity EU Declaration of Conformity 3657616
	Declarations of conformity Manufacturers Declaration of Conformity 3657594
	Eulumdat Eulumdat LFP800S-G4-827-10
	IES data IES data LFP800S-G4-827-10
	Eulumdat Eulumdat LFP800S-G4-830-10
	IES data IES data LFP800S-G4-830-10
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	Eulumdat Eulumdat LFP800S-G4-927-10
	IES data IES data LFP800S-G4-927-10

Product family datasheet

	Certificates CB TEST CERTIFICATE DE1-58044
	Eulumdat Eulumdat LFP800S-G4-935-10
	IES data IES data LFP800S-G4-935-10
	Eulumdat Eulumdat LFP800S-G4-940-10
	IES data IES data LFP800S-G4-940-10
	Eulumdat Eulumdat LFP800S-G4-965-10
	IES data IES data LFP800S-G4-965-10

Ecodesign regulation information:

ul>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
4052899575677	LFP800S -G4-827-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8968.00 g
4052899575714	LFP800S -G4-830-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8968.00 g

Product family datasheet

Logistical Data

4052899575776	LFP800S -G4-835-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8968.00 g
4052899575837	LFP800S -G4-840-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8968.00 g
4052899595231	LFP800S -G4-927-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8968.00 g
4052899576032	LFP800S -G4-935-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8968.00 g
4052899576056	LFP800S -G4-940-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8968.00 g
4052899576070	LFP800S -G4-965-10	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8968.00 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.

Disclaimer

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