

LINEARlight FLEX Protect ECO

Flexible LED modules for professional and industrial applications



Areas of application

- Decorative applications
- Wall integration
- Backlighting of complex structures
- Path lighting
- Signage
- Suitable for outdoor use

Product benefits

- Large selection of light colors
- Great design freedom thanks to flexibility and cuttability of module
- High-performance silicon 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 155 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	Rated wattage	Nominal wattage per meter	Reverse Voltage	Type of current
LF05E -W2F-830-P	24.0 V	24.00 W	4.1 W	25 V	DC
LF05E -W2F-840-P	24.0 V	24.00 W	4.1 W	25 V	DC
LF05E -W2F-860-P	24.0 V	24.00 W	4.1 W	25 V	DC
LF05E -B2-P	24.0 V	24.00 W	4.1 W	25 V	DC
LF05E -R1-P	24.0 V	36.00 W	6.0 W	25 V	DC
LF05E -T2-P	24.0 V	24.00 W	4.1 W	25 V	DC
LF05E -Y1-P	24.0 V	36.00 W	6.0 W	25 V	DC

Product description	Input voltage range
LF05E -W2F-830-P	23...25 V
LF05E -W2F-840-P	23...25 V
LF05E -W2F-860-P	23...25 V
LF05E -B2-P	23...25 V
LF05E -R1-P	23...25 V
LF05E -T2-P	23...25 V
LF05E -Y1-P	23...25 V

Photometrical data

Product description	Color temperature	Color rendering index Ra	Light color (designation)	Light color LED	Nominal dominant wavelength	Luminous flux per meter
LF05E -W2F-830-P	3000 K	>80	Warm White	White	-	130 lm
LF05E -W2F-840-P	4000 K	>80	Cool White	White	-	157 lm
LF05E -W2F-860-P	6000 K	>80	Daylight	White	-	130 lm
LF05E -B2-P			Blue	Blue	467 nm	50 lm
LF05E -R1-P			Red	Red	625 nm	140 lm
LF05E -T2-P			Green	Green	522 nm	157 lm
LF05E -Y1-P			Yellow	Yellow	587 nm	140 lm

Product description	Luminous flux	Luminous efficacy
LF05E -W2F-830-P	770 lm	31 lm/W
LF05E -W2F-840-P	940 lm	38 lm/W
LF05E -W2F-860-P	770 lm	31 lm/W
LF05E -B2-P	290 lm	
LF05E -R1-P	840 lm	
LF05E -T2-P	940 lm	
LF05E -Y1-P	840 lm	

Product family datasheet

Light technical data

Product description	Beam angle
LF05E -W2F-830-P	120 °
LF05E -W2F-840-P	120 °
LF05E -W2F-860-P	120 °
LF05E -B2-P	120 °
LF05E -R1-P	120 °
LF05E -T2-P	120 °
LF05E -Y1-P	120 °

LED module information

Product description	Number of LEDs per module	Number of LEDs per meter	Number of LEDs per smallest unit
LF05E -W2F-830-P	200	33	5
LF05E -W2F-840-P	200	33	5
LF05E -W2F-860-P	200	33	5
LF05E -B2-P	200	33	5
LF05E -R1-P	200	33	5
LF05E -T2-P	200	33	5
LF05E -Y1-P	200	33	5

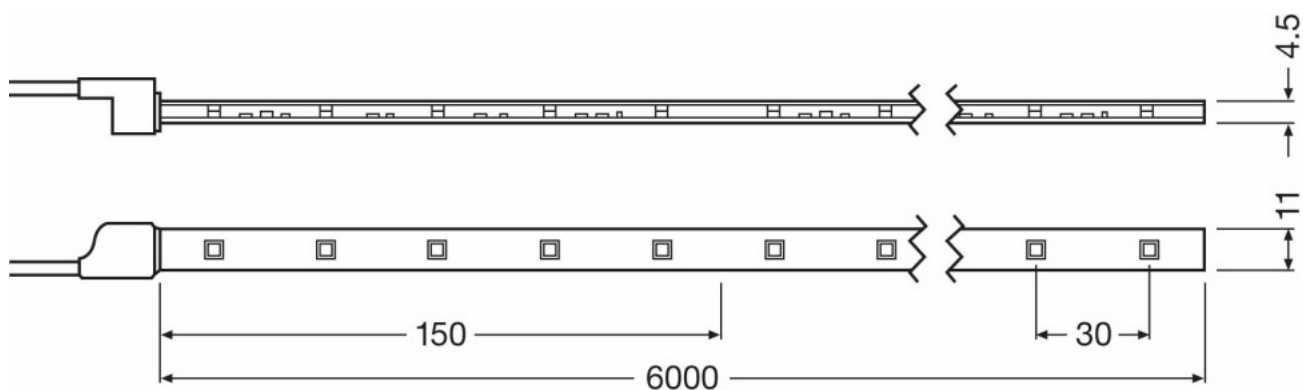
Dimensions & weight

Product description	Length	Length – smallest unit	Width	Height	Cable length	Product weight
LF05E -W2F-830-P	6000 mm ¹⁾	150.0 mm	11.0 mm	4.5 mm	500.0 mm	500.00 g
LF05E -W2F-840-P	6000 mm ¹⁾	150.0 mm	11.0 mm	4.5 mm	500.0 mm	500.00 g
LF05E -W2F-860-P	6000 mm ¹⁾	150.0 mm	11.0 mm	4.5 mm	500.0 mm	500.00 g
LF05E -B2-P	6000 mm ¹⁾	150.0 mm	11.0 mm	4.5 mm	500.0 mm	500.00 g
LF05E -R1-P	6000 mm ¹⁾	150.0 mm	11.0 mm	4.5 mm	500.0 mm	500.00 g
LF05E -T2-P	6000 mm ¹⁾	150.0 mm	11.0 mm	4.5 mm	500.0 mm	500.00 g
LF05E -Y1-P	6000 mm ¹⁾	150.0 mm	11.0 mm	4.5 mm	500.0 mm	500.00 g

¹⁾ LED pitch 30 mm

Product family datasheet

Product line drawing



LF05E -W2F-830-P, LF05E -W2F-840-P, LF05E -W2F-860-P, LF05E -B2-P, LF05E -R1-P, LF05E -T2-P, LF05E -Y1-P

Temperatures

Product description	Temperature range in operation	Temperature range at storage
LF05E -W2F-830-P	-30...75 °C ¹⁾	-40...85 °C
LF05E -W2F-840-P	-30...75 °C ¹⁾	-40...85 °C
LF05E -W2F-860-P	-30...75 °C ¹⁾	-40...85 °C
LF05E -B2-P	-30...75 °C ¹⁾	-40...85 °C
LF05E -R1-P	-30...75 °C ¹⁾	-40...85 °C
LF05E -T2-P	-30...75 °C ¹⁾	-40...85 °C
LF05E -Y1-P	-30...75 °C ¹⁾	-40...85 °C

¹⁾ At the T_c point

Product family datasheet

Lifespan

Product description	Lifespan
LF05E -W2F-830-P	50000 h ¹⁾
LF05E -W2F-840-P	50000 h ¹⁾
LF05E -W2F-860-P	50000 h ¹⁾
LF05E -B2-P	50000 h ¹⁾
LF05E -R1-P	50000 h ¹⁾
LF05E -T2-P	50000 h ¹⁾
LF05E -Y1-P	50000 h ¹⁾

¹⁾ L70/B50 at Tc 40 °C

Capabilities

Product description	Dimmable
LF05E -W2F-830-P	Yes
LF05E -W2F-840-P	Yes
LF05E -W2F-860-P	Yes
LF05E -B2-P	Yes ¹⁾
LF05E -R1-P	Yes ¹⁾
LF05E -T2-P	Yes ¹⁾
LF05E -Y1-P	Yes ¹⁾

¹⁾ PWM

Certificates & standards

Product description	Energy consumption	Type of protection	Energy efficiency class
LF05E -W2F-830-P	1 kWh/1000h	IP67	A+ ¹⁾
LF05E -W2F-840-P	1 kWh/1000h	IP67	A+ ¹⁾
LF05E -W2F-860-P	1 kWh/1000h	IP67	A+ ¹⁾
LF05E -B2-P		IP67	
LF05E -R1-P		IP67	
LF05E -T2-P		IP67	
LF05E -Y1-P		IP67	

Product description	Standards
LF05E -W2F-830-P	Acc. to EN 60598-1
LF05E -W2F-840-P	Acc. to EN 60598-1
LF05E -W2F-860-P	Acc. to EN 60598-1
LF05E -B2-P	Acc. to EN 60598-1
LF05E -R1-P	Acc. to EN 60598-1
LF05E -T2-P	Acc. to EN 60598-1
LF05E -Y1-P	Acc. to EN 60598-1

Product family datasheet

1) Applicable on smallest operable unit

Logistical data

Product description	Temperature range at storage
LF05E -W2F-830-P	-40...85 °C
LF05E -W2F-840-P	-40...85 °C
LF05E -W2F-860-P	-40...85 °C
LF05E -B2-P	-40...85 °C
LF05E -R1-P	-40...85 °C
LF05E -T2-P	-40...85 °C
LF05E -Y1-P	-40...85 °C

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.

Sales and Technical Support











Sales and Technical Support www.osram.com

Country specific information

Product description	Product code	METEL code	SEG number	STK number	UK Org
LF05E-W2F-830-P	4008321616432	OSRLF05EW2F830P	8334150	4031364	-
LF05E-W2F-840-P	4008321621184	OSRLF05EW2F840P	8334149	4030005	-
LF05E-W2F-860-P	4008321616777	OSRLF05EW2F860P	8334148	4031363	-
LF05E-B2-P	4008321616913	OSRLF05EB2P	8334151	4031368	-
LF05E-R1-P	4008321616937	OSRLF05ER1P	8334153	4031365	-
LF05E-T2-P	4008321616951	OSRLF05ET2P	8334152	4031367	-
LF05E-Y1-P	4008321616975	OSRLF05EY1P	8334154	4031366	-

Download Data

Product family datasheet

File	
	Product Datasheet LINEARlight Flex Protect LF05E-P (EN)
	Brochures FLEXIBLE LED MODULES
	Brochures Light is freedom of design (GB)
	Declarations of conformity EC-DoC LF05A-E-P
	Eulumdat LINEARlight FLEX PROTECT LF05E-W2F-830-P
	Product movie Spots LINEARlight Flex Quality long QTh264 3500kbit 1024x576 (E)
	Product movie Spots LINEARlight Flex Quality short QTh264 3500kbit 1024x576 (E)
	Eulumdat LINEARlight FLEX PROTECT LF05E-W2F-840-P
	Eulumdat LINEARlight FLEX PROTECT LF05E-W2F-860-P
	Eulumdat LINEARlight FLEX PROTECT LF05E-B2-P
	Eulumdat LINEARlight FLEX PROTECT LF05E-R1-P
	Eulumdat LINEARlight FLEX PROTECT LF05E-T2-P
	Eulumdat LINEARlight FLEX PROTECT LF05E-Y1-P

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321616432	LF05E -W2F-830-P	Shipping carton box 8	366 mm x 369 mm x 286 mm	38.63 dm ³	7199.67 g
4008321621184	LF05E -W2F-840-P	Shipping carton box 8	366 mm x 315 mm x 365 mm	42.08 dm ³	6932.00 g
4008321616777	LF05E -W2F-860-P	Shipping carton box 8	366 mm x 366 mm x 286 mm	38.31 dm ³	8150.00 g
4008321616913	LF05E -B2-P	Shipping carton box 8	366 mm x 366 mm x 286 mm	38.31 dm ³	8150.00 g
4008321616937	LF05E -R1-P	Shipping carton box 8	366 mm x 366 mm x 286 mm	38.31 dm ³	8150.00 g
4008321616951	LF05E -T2-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8150.00 g

Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321616975	LF05E -Y1-P	Shipping carton box 8	365 mm x 286 mm x 366 mm	38.21 dm ³	8150.00 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.