
LINEARlight FLEX ECO

Flexible LED modules for professional and industrial applications



Areas of application

- Signage

Product benefits

- Very long for seamless bands of light
- Large selection of light colors
- Great design freedom thanks to flexibility and cuttability of module
- Simple mounting and connection
- 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 240 lm/m
- Dimmable
- Fine White (3 SDCM)



Product family datasheet

Technical data

Electrical data

Product description	Nominal voltage	Rated wattage	Type of current	Input voltage range	Nominal current
LF05E2 -W2F-827	24.0 V	36.00 W	DC	23...25 V	
LF05E2 -W2F-830	24.0 V	36.00 W	DC		1.5 A
LF05E2 -W2F-840	24.0 V	36.00 W	DC		1.5 A
LF05E2 -W2F-865	24.0 V	36.00 W	DC	23...25 V	1.5 A
LF05E2 -W2F-730			DC	23...25 V	
LF05E -R1	24.0 V	36.00 W	DC	23...25 V	
LF05E -Y1	24.0 V	36.00 W	DC	23...25 V	
LF05E -T2	24.0 V	24.50 W	DC	23...25 V	
LF05E -B2	24.0 V	24.50 W	DC	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
LF05E2 -W2F-827	2700 K	>80	Warm White	White	-	205 lm
LF05E2 -W2F-830	3000 K	>80				
LF05E2 -W2F-840	3000 K	>80				
LF05E2 -W2F-865	6500 K	>80	Daylight	White	-	220 lm
LF05E2 -W2F-730	3000 K	>70	Warm White	White	-	220 lm
LF05E -R1			Red	RGB	625 nm	140 lm
LF05E -Y1			Yellow	Yellow	587 nm	140 lm
LF05E -T2			Green	Green	525 nm	157 lm
LF05E -B2			Blue	Blue	470 nm	50 lm

Product description	Luminous flux	Luminous efficacy
LF05E2 -W2F-827	2050 lm	57 lm/W
LF05E2 -W2F-830		
LF05E2 -W2F-840		
LF05E2 -W2F-865	2200 lm	61 lm/W
LF05E2 -W2F-730	2200 lm	61 lm/W
LF05E -R1	840 lm	
LF05E -Y1	840 lm	
LF05E -T2	940 lm	
LF05E -B2	290 lm	

Product family datasheet

Light technical data

Product description	Beam angle
LF05E2 -W2F-827	120 °
LF05E2 -W2F-830	120 °
LF05E2 -W2F-840	120 °
LF05E2 -W2F-865	120 °
LF05E2 -W2F-730	120 °
LF05E -R1	120 °
LF05E -Y1	120 °
LF05E -T2	120 °
LF05E -B2	120 °

LED module information

Product description	Number of LEDs per module	Number of LEDs per meter
LF05E2 -W2F-827	200	50
LF05E2 -W2F-830	500	50
LF05E2 -W2F-840	500	50
LF05E2 -W2F-865	200	50
LF05E2 -W2F-730	200	50
LF05E -R1	200	33
LF05E -Y1	200	33
LF05E -T2	200	33
LF05E -B2	200	33

Dimensions & weight

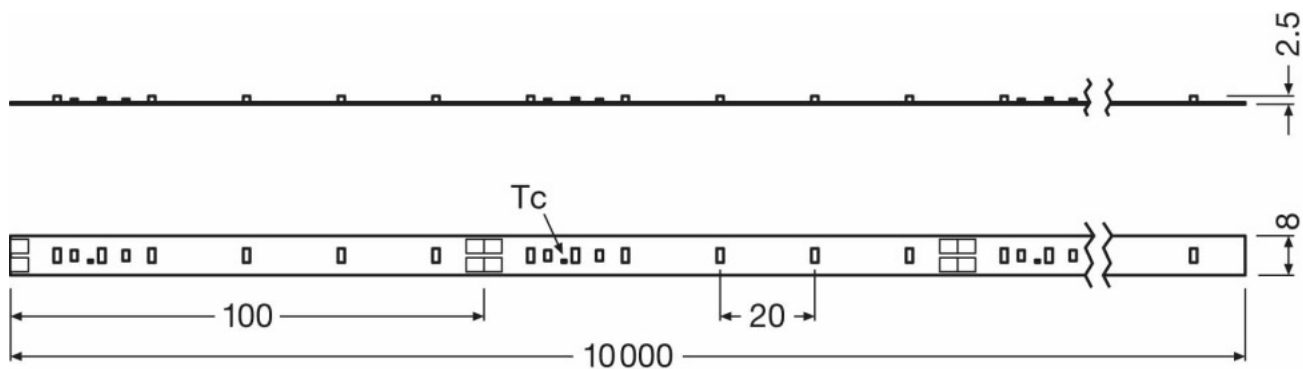
Product description	Length	Length – smallest unit	Width	Height	Product weight
LF05E2 -W2F-827	10000 mm ¹⁾	100.0 mm	8.0 mm	2.5 mm	40.00 g
LF05E2 -W2F-830	10000 mm ¹⁾		8.0 mm	2.5 mm	40.00 g
LF05E2 -W2F-840	10000 mm ¹⁾		8.0 mm	2.5 mm	40.00 g
LF05E2 -W2F-865	10000 mm ¹⁾	100.0 mm	8.0 mm	2.5 mm	40.00 g
LF05E2 -W2F-730	10000 mm ¹⁾	100.0 mm	8.0 mm	2.5 mm	40.00 g
LF05E -R1	6000 mm ²⁾	150.0 mm	8.0 mm	2.5 mm	39.00 g
LF05E -Y1	6000 mm ²⁾	150.0 mm	8.0 mm	2.5 mm	39.00 g
LF05E -T2	6000 mm ²⁾	150.0 mm	8.0 mm	2.5 mm	39.00 g
LF05E -B2	6000 mm ²⁾	150.0 mm	8.0 mm	2.5 mm	39.00 g

¹⁾ LED pitch 20 mm

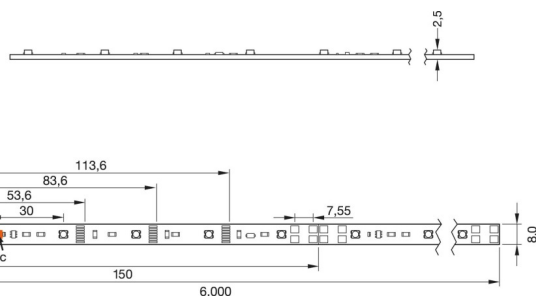
²⁾ LED pitch 30 mm

Product family datasheet

Product line drawing



LF05E2 -W2F-827, LF05E2 -W2F-865, LF05E2 -W2F-730



LF05E -R1, LF05E -Y1, LF05E -T2, LF05E -B2

Product family datasheet

Temperatures

Product description	Temperature range in operation	Temperature range at storage
LF05E2 -W2F-827	-20...85 °C ¹⁾	-20...85 °C
LF05E2 -W2F-830		
LF05E2 -W2F-840		
LF05E2 -W2F-865	-20...85 °C ¹⁾	-20...85 °C
LF05E2 -W2F-730	-20...85 °C ¹⁾	-20...85 °C
LF05E -R1	-30...75 °C ¹⁾	-40...85 °C
LF05E -Y1	-30...75 °C ¹⁾	-40...85 °C
LF05E -T2	-30...75 °C ¹⁾	-40...85 °C
LF05E -B2	-30...75 °C ¹⁾	-40...85 °C

¹⁾ At the T_c point

Lifespan

Product description	Lifespan
LF05E2 -W2F-827	50000 h ¹⁾
LF05E2 -W2F-830	50000 h ¹⁾
LF05E2 -W2F-840	50000 h ¹⁾
LF05E2 -W2F-865	50000 h ¹⁾
LF05E2 -W2F-730	50000 h ¹⁾
LF05E -R1	50000 h ¹⁾
LF05E -Y1	50000 h ¹⁾
LF05E -T2	50000 h ¹⁾
LF05E -B2	50000 h ¹⁾

¹⁾ L70/B50 at T_c 40 °C

Capabilities

Product description	Dimmable
LF05E2 -W2F-827	Yes
LF05E2 -W2F-830	Yes
LF05E2 -W2F-840	Yes
LF05E2 -W2F-865	Yes
LF05E2 -W2F-730	Yes
LF05E -R1	Yes ¹⁾
LF05E -Y1	Yes ¹⁾
LF05E -T2	Yes ¹⁾
LF05E -B2	Yes ¹⁾

¹⁾ PWM

Product family datasheet

Certificates & standards

Product description	Energy consumption	Energy efficiency class
LF05E2 -W2F-827	2 kWh/1000h	A+ ¹⁾
LF05E2 -W2F-830	2 kWh/1000h	A+ ¹⁾
LF05E2 -W2F-840	2 kWh/1000h	A+ ¹⁾
LF05E2 -W2F-865	2 kWh/1000h	A+ ¹⁾
LF05E2 -W2F-730	1 kWh/1000h	A++ ¹⁾
LF05E -R1		
LF05E -Y1		
LF05E -T2		
LF05E -B2		

Product description	Standards
LF05E2 -W2F-827	CE
LF05E2 -W2F-830	CE
LF05E2 -W2F-840	CE
LF05E2 -W2F-865	CE
LF05E2 -W2F-730	CE
LF05E -R1	Acc. to 2004/108/EC
LF05E -Y1	Acc. to 2004/108/EC
LF05E -T2	Acc. to 2004/108/EC
LF05E -B2	Acc. to 2004/108/EC

¹⁾ Applicable on smallest operable unit

Logistical data

Product description	Temperature range at storage
LF05E2 -W2F-827	-20...85 °C
LF05E2 -W2F-830	
LF05E2 -W2F-840	
LF05E2 -W2F-865	-20...85 °C
LF05E2 -W2F-730	-20...85 °C
LF05E -R1	-40...85 °C
LF05E -Y1	-40...85 °C
LF05E -T2	-40...85 °C
LF05E -B2	-40...85 °C

Equipment / Accessories

- Simplified connection with optional matching CONNECTsystem
- Quick installation with optional SLIM TRACK System

Product family datasheet

– 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
LF05E2-W2F-827	4008321971357	-	7500211	4030042	-
LF05E2-W2F-830	4052899928435	-	-	4030068	-
LF05E2-W2F-840	4052899928442	-	-	4030043	-
LF05E2-W2F-865	4008321971418	-	7500215	4030044	-
LF05E-R1	4008321955418	OSRLF05ER1	7552445	4031337	-
LF05E-Y1	4008321955432	OSRLF05EY1	7552446	4031339	-
LF05E-T2	4008321955449	OSRLF05ET2	7552447	4031338	-
LF05E-B2	4008321955425	OSRLF05EB2	7552448	4031335	-

Download Data

File	
	Addon Technical Information BinningSheet - LF05E2
	Product Datasheet LF05E2 Technical Datasheet
	Brochures FLEXIBLE LED MODULES
	Brochures Light is freedom of design (GB)
	Declarations of conformity EC-DoC LF05E2
	Declarations of conformity Man-DoC LF05E2
	Eulumdat LF05E2-W2F-827
	Product movie Spots LINEARlight Flex Quality long QTh264 3500kbit 1024x576 (E)

Product family datasheet

	Product movie Spots LINEARlight Flex Quality short QTh264 3500kbit 1024x576 (E)
	Eulumdat LF05E2-W2F-865
	Eulumdat LF05E2-W2F-730
	Product Datasheet LINEARlight Flex LF05E (EN)
	Eulumdat LF05E R1
	Eulumdat LF05E Y1
	Eulumdat LF05E T2
	Eulumdat LF05E B2

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321971357	LF05E2 -W2F-827	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1489.00 g
4052899928435	LF05E2 -W2F-830	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1493.00 g
4052899928442	LF05E2 -W2F-840	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1493.00 g
4008321971418	LF05E2 -W2F-865	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1493.00 g
4008321971371	LF05E2 -W2F-730	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1489.00 g
4008321955418	LF05E -R1	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1481.00 g
4008321955432	LF05E -Y1	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1481.00 g
4008321955449	LF05E -T2	Shipping carton box 8	202 mm x 195 mm x 240 mm	9.45 dm ³	1481.00 g
4008321955425	LF05E -B2	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1481.00 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

Product family datasheet

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