

## LINEARlight FLEX ECO

Flexible LED modules for professional and industrial applications



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### Areas of application

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- Signage

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### Product benefits

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- 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

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### Product features

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- Flexible and cuttable LED strip
- Luminous flux: up to 240 lm/m
- Dimmable
- Fine White (3 SDCM)



## Technical data

### Electrical data

Product description	Nominal voltage	Rated wattage	Type of current	Voltage range
LF05E2 -W2F-827	24.00 V	36.00 W	DC	23...25 V
LF05E2 -W2F-830	24.00 V	36.00 W	DC	
LF05E2 -W2F-840	24.00 V	36.00 W	DC	
LF05E2 -W2F-865	24.00 V	36.00 W	DC	23...25 V
LF05E2 -W2F-730	24.00 V	36.00 W	DC	23...25 V
LF05E2 -W2F-740	24.00 V	36.00 W	DC	23...25 V
LF05E -R1	24.00 V	36.00 W	DC	23...25 V
LF05E -Y1	24.00 V	36.00 W	DC	23...25 V
LF05E -T2	24.00 V	24.50 W	DC	23...25 V
LF05E -B2	24.00 V	24.50 W	DC	23...25 V

Product description	Energy consumption
LF05E2 -W2F-827	2 kWh/1000h
LF05E2 -W2F-830	2 kWh/1000h
LF05E2 -W2F-840	2 kWh/1000h
LF05E2 -W2F-865	2 kWh/1000h
LF05E2 -W2F-730	1 kWh/1000h
LF05E2 -W2F-740	1 kWh/1000h
LF05E -R1	
LF05E -Y1	
LF05E -T2	
LF05E -B2	

### Light technical data

Product description	Color temperature	Color rendering index Ra	Light color as per EN 12464-1	Light color LED
LF05E2 -W2F-827	2700 K	>80	Warm White	white
LF05E2 -W2F-830	3000 K	>80		
LF05E2 -W2F-840	3000 K	>80		
LF05E2 -W2F-865	6500 K	>80	Daylight	white
LF05E2 -W2F-730	3000 K	>70	Warm White	white
LF05E2 -W2F-740	4000 K	>70	Cool White	white
LF05E -R1			Red	RGB
LF05E -Y1			Yellow	yellow

## Product family datasheet

Product description	Color temperature	Color rendering index Ra	Light color as per EN 12464-1	Light color LED
LF05E -T2			Green	green
LF05E -B2			Blue	blue

Product description	Nominal dominant wavelength	Luminous flux per meter	Luminous flux	Luminous efficacy
LF05E2 -W2F-827	-	205 lm	2050 lm	57 lm/W
LF05E2 -W2F-830				
LF05E2 -W2F-840				
LF05E2 -W2F-865	-	220 lm	2200 lm	61 lm/W
LF05E2 -W2F-730	-	220 lm	2200 lm	61 lm/W
LF05E2 -W2F-740	-	240 lm	2400 lm	67 lm/W
LF05E -R1	625 nm	140 lm	840 lm	
LF05E -Y1	587 nm	140 lm	840 lm	
LF05E -T2	525 nm	157 lm	940 lm	
LF05E -B2	470 nm	50 lm	290 lm	

Product description	Beam angle
LF05E2 -W2F-827	120 °
LF05E2 -W2F-830	120 °
LF05E2 -W2F-840	120 °
LF05E2 -W2F-865	120 °
LF05E2 -W2F-730	120 °
LF05E2 -W2F-740	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
LF05E2 -W2F-740	200	50

## Product family datasheet

Product description	Number of LEDs per module	Number of LEDs per meter
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
LF05E2 -W2F-827	10000.0 mm <sup>1)</sup>	100.0 mm	8.0 mm	2.5 mm
LF05E2 -W2F-830	10000.0 mm <sup>1)</sup>		8.0 mm	2.5 mm
LF05E2 -W2F-840	10000.0 mm <sup>1)</sup>		8.0 mm	2.5 mm
LF05E2 -W2F-865	10000.0 mm <sup>1)</sup>	100.0 mm	8.0 mm	2.5 mm
LF05E2 -W2F-730	10000.0 mm <sup>1)</sup>	100.0 mm	8.0 mm	2.5 mm
LF05E2 -W2F-740	10000.0 mm <sup>1)</sup>	100.0 mm	8.0 mm	2.5 mm
LF05E -R1	6000.0 mm <sup>2)</sup>	150.0 mm	8.0 mm	2.5 mm
LF05E -Y1	6000.0 mm <sup>2)</sup>	150.0 mm	8.0 mm	2.5 mm
LF05E -T2	6000.0 mm <sup>2)</sup>	150.0 mm	8.0 mm	2.5 mm
LF05E -B2	6000.0 mm <sup>2)</sup>	150.0 mm	8.0 mm	2.5 mm

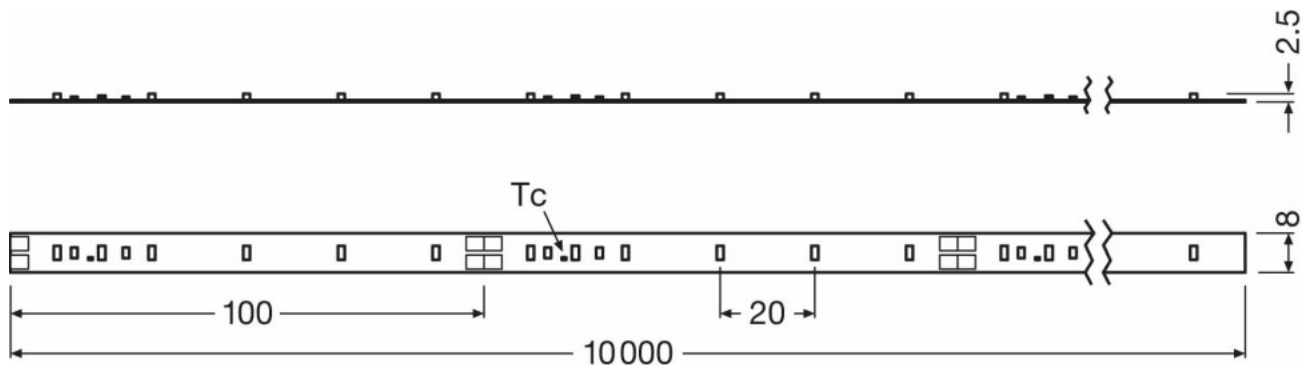
Product description	Product weight
LF05E2 -W2F-827	40.00 g
LF05E2 -W2F-830	40.00 g
LF05E2 -W2F-840	40.00 g
LF05E2 -W2F-865	40.00 g
LF05E2 -W2F-730	40.00 g
LF05E2 -W2F-740	40.00 g
LF05E -R1	39.00 g
LF05E -Y1	39.00 g
LF05E -T2	39.00 g
LF05E -B2	39.00 g

<sup>1)</sup> LED pitch 20 mm

<sup>2)</sup> LED pitch 30 mm

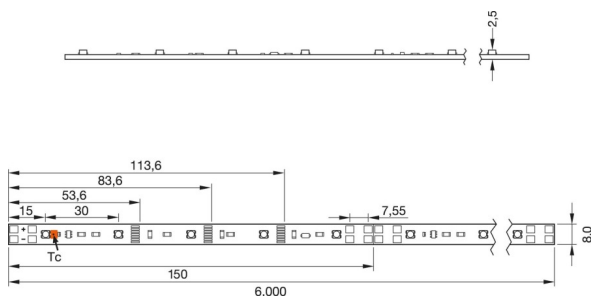
## Product line drawing

# Product family datasheet



## Product line drawing

LF05E2 -W2F-827 | LF05E2 -W2F-865 | LF05E2 -W2F-730 | LF05E2 -W2F-740



## Product line drawing

LF05E -R1 | LF05E -Y1 | LF05E -T2 | LF05E -B2

## Temperatures

## Product family datasheet

Product description	Temperature range in operation	Temperature range at storage
LF05E2 -W2F-827	-20...85 °C <sup>1)</sup>	-20...85 °C
LF05E2 -W2F-830		
LF05E2 -W2F-840		
LF05E2 -W2F-865	-20...85 °C <sup>1)</sup>	-20...85 °C
LF05E2 -W2F-730	-20...85 °C <sup>1)</sup>	-20...85 °C
LF05E2 -W2F-740	-20...85 °C <sup>1)</sup>	-20...85 °C
LF05E -R1	-30...75 °C <sup>1)</sup>	-40...85 °C
LF05E -Y1	-30...75 °C <sup>1)</sup>	-40...85 °C
LF05E -T2	-30...75 °C <sup>1)</sup>	-40...85 °C
LF05E -B2	-30...75 °C <sup>1)</sup>	-40...85 °C

<sup>1)</sup> At the T<sub>c</sub> point

## Lifespan

Product description	Lifespan
LF05E2 -W2F-827	50000 h <sup>1)</sup>
LF05E2 -W2F-830	50000 h <sup>1)</sup>
LF05E2 -W2F-840	50000 h <sup>1)</sup>
LF05E2 -W2F-865	50000 h <sup>1)</sup>
LF05E2 -W2F-730	50000 h <sup>1)</sup>
LF05E2 -W2F-740	50000 h <sup>1)</sup>
LF05E -R1	50000 h <sup>1)</sup>
LF05E -Y1	50000 h <sup>1)</sup>
LF05E -T2	50000 h <sup>1)</sup>
LF05E -B2	50000 h <sup>1)</sup>

<sup>1)</sup> L70/B50 at T<sub>c</sub> 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
LF05E2 -W2F-740	Yes

## Product family datasheet

Product description	Dimmable
LF05E -R1	Yes <sup>1)</sup>
LF05E -Y1	Yes <sup>1)</sup>
LF05E -T2	Yes <sup>1)</sup>
LF05E -B2	Yes <sup>1)</sup>

<sup>1)</sup> PWM

## Certificates & standards

Product description	Energy efficiency class	Standards
LF05E2 -W2F-827	A+ <sup>1)</sup>	
LF05E2 -W2F-830	A+ <sup>1)</sup>	
LF05E2 -W2F-840	A+ <sup>1)</sup>	
LF05E2 -W2F-865	A+ <sup>1)</sup>	
LF05E2 -W2F-730	A++ <sup>1)</sup>	
LF05E2 -W2F-740	A++ <sup>1)</sup>	
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

<sup>1)</sup> Applicable on smallest operable unit

## 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](http://www.osram.com)

















## Country specific information

Product description	Product code	METEL-Code	SEG number	STK number	UK Org
LF05E2-W2F-827	4008321971357	-	7500211	4030042	-

## Product family datasheet

LF05E2-W2F-865	4008321971418	-	7500215	4030044	-
LF05E2-W2F-730	4008321971371	-	7500212	4030068	-
LF05E2-W2F-740	4008321971395	-	7500214	4030043	-
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
	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 movie Spots LINEARlight Flex Quality short QTh264 3500kbit 1024x576 (E)
	Eulumdat LF05E2-W2F-865
	Eulumdat LF05E2-W2F-730
	Eulumdat LINEARlight Flex ECO LF05E2-W2F-740
	Eulumdat LF05E2-W2F-740
	Product Datasheet LINEARlight Flex LF05E
	Eulumdat LF05E R1
	Eulumdat LF05E Y1
	Eulumdat LF05E T2



## Product family datasheet



Eulumdat  
LF05E B2

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (height x width x length)	Volume	Gross weight
4008321971357	LF05E2 -W2F-827	Shipping carton box 8	205 mm x 195 mm x 241 mm	9.63 dm <sup>3</sup>	1489.00 g
4052899928435	LF05E2 -W2F-830	Shipping carton box 8	205 mm x 195 mm x 241 mm	9.63 dm <sup>3</sup>	1493.00 g
4052899928442	LF05E2 -W2F-840	Shipping carton box 8	205 mm x 195 mm x 241 mm	9.63 dm <sup>3</sup>	1493.00 g
4008321971418	LF05E2 -W2F-865	Shipping carton box 8	205 mm x 195 mm x 241 mm	9.63 dm <sup>3</sup>	1493.00 g
4008321971371	LF05E2 -W2F-730	Shipping carton box 8	205 mm x 195 mm x 241 mm	9.63 dm <sup>3</sup>	1489.00 g
4008321971395	LF05E2 -W2F-740	Shipping carton box 8	205 mm x 195 mm x 241 mm	9.63 dm <sup>3</sup>	1485.00 g
4008321955418	LF05E -R1	Shipping carton box 8	205 mm x 195 mm x 241 mm	9.63 dm <sup>3</sup>	1481.00 g
4008321955432	LF05E -Y1	Shipping carton box 8	205 mm x 195 mm x 241 mm	9.63 dm <sup>3</sup>	1481.00 g
4008321955449	LF05E -T2	Shipping carton box 8	240 mm x 195 mm x 202 mm	9.45 dm <sup>3</sup>	1481.00 g
4008321955425	LF05E -B2	Shipping carton box 8	205 mm x 195 mm x 241 mm	9.63 dm <sup>3</sup>	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

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