

LINEARlight Colormix Flex

LED modules for professional and industrial applications



Areas of application

- Effect lighting in architecture
- Injection of light into displays and low-profile light guides
- Dynamic effects in public zones

Product benefits

- Uniform color changing
- Great design freedom thanks to flexibility and cuttability of module
- Simple mounting and connection
- Type of protection: IP00
- Toolless connection with the optional CONNECTsystem for RGB
- Easy mounting on many smooth surfaces thanks to self-adhesive tape at the back

Product features

- Flexible and splittable LED strip with inline multichip RGB LEDs
- RGBW: full single BIN on each colors and white



Technical data

Electrical data

Product description	Nominal voltage	Nominal current	Rated wattage	Nominal wattage per meter - RGB	Nominal wattage per meter	Reverse Voltage	Type of current
LF200C -G3-RGB-06 ¹⁾	24.0 V	1.63 A	39.00 W	6.5 W	6.5 W	25 V	DC
LF05CA2 -RGB3 ²⁾	24.0 V	3 A	72.00 W	18.0 W	18.0 W	25 V	DC
LF05CE -RGB1	24.0 V	1.6 A	39.00 W	6.5 W	6.5 W	25 V	DC
LF700RGBW -G1-822-06 ³⁾	24.0 V	2.7 A	64.20 W	6.5 W	10.7 W	25 V	DC
LF700RGBW -G1-827-06 ³⁾	24.0 V	2.5 A	58.80 W	6.5 W	9.8 W	25 V	DC
LF700RGBW -G1-830-06 ³⁾	24.0 V	2.5 A	58.80 W	6.5 W	9.8 W	25 V	DC
LF700RGBW -G1-840-06 ³⁾	24.0 V	2.4 A	57.60 W	6.5 W	9.6 W	25 V	DC
LF700RGBW -G1-865-06 ³⁾	24.0 V	2.4 A	57.60 W	6.5 W	9.6 W	25 V	DC
LF1300RGBW -G1-822-04 ³⁾	24.0 V	3.3 A	79.60 W	11.0 W	19.9 W	25 V	DC
LF1300RGBW -G1-827-04 ³⁾	24.0 V	2.9 A	69.80 W	11.0 W	17.9 W	25 V	DC
LF1300RGBW -G1-830-04 ³⁾	24.0 V	2.9 A	69.80 W	11.0 W	17.9 W	25 V	DC
LF1300RGBW -G1-840-04 ³⁾	24.0 V	2.8 A	67.90 W	11.0 W	17.4 W	25 V	DC
LF1300RGBW -G1-865-04 ³⁾	24.0 V	2.8 A	67.90 W	11.0 W	17.4 W	25 V	DC

Product description	Input voltage range	Nominal wattage per meter - White
LF200C -G3-RGB-06 ¹⁾	23...25 V	
LF05CA2 -RGB3 ²⁾	23...25 V	
LF05CE -RGB1	23...25 V	
LF700RGBW -G1-822-06 ³⁾	23...24 V	4.2 W
LF700RGBW -G1-827-06 ³⁾	23...24 V	3.3 W
LF700RGBW -G1-830-06 ³⁾	23...25 V	3.3 W
LF700RGBW -G1-840-06 ³⁾	23...25 V	3.1 W
LF700RGBW -G1-865-06 ³⁾	23...24 V	3.1 W
LF1300RGBW -G1-822-04 ³⁾	23...24 V	9.4 W
LF1300RGBW -G1-827-04 ³⁾	23...24 V	6.9 W
LF1300RGBW -G1-830-04 ³⁾	23...25 V	6.9 W
LF1300RGBW -G1-840-04 ³⁾	23...25 V	6.4 W
LF1300RGBW -G1-865-04 ³⁾	23...24 V	6.4 W

¹⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values/Color binning/With RGB wavelengths: R/G/B 625/525/465 nm

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Photometrical data

Product description	Light color (designation)	Light color LED	Nominal dominant wavelength	Luminous flux per meter	Luminous flux per meter	Luminous flux
LF200C -G3-RGB-06 ¹⁾	Red/Green/Blue	RGB	625 / 525 / 465 nm	209 lm	209 lm	1254 lm
LF05CA2 -RGB3 ²⁾	Red/Green/Blue	RGB	625 / 525 / 465 nm	470 lm	470 lm	1880 lm
LF05CE -RGB1	Red/Green/Blue	RGB	625 / 525 / 465 nm	180 lm	180 lm	1080 lm
LF700RGBW -G1-822-06 ³⁾	RGBW	RGB, white		297 lm	657 lm	
LF700RGBW -G1-827-06 ³⁾	RGBW	RGB, white		297 lm	697 lm	
LF700RGBW -G1-830-06 ³⁾	RGBW	RGB, white		297 lm	697 lm	
LF700RGBW -G1-840-06 ³⁾	RGBW	RGB, white		297 lm	697 lm	
LF700RGBW -G1-865-06 ³⁾	RGBW	RGB, white		297 lm	697 lm	
LF1300RGBW -G1-822-04 ³⁾	RGBW	RGB, white		493 lm	1293 lm	
LF1300RGBW -G1-827-04 ³⁾	RGBW	RGB, white		493 lm	1293 lm	
LF1300RGBW -G1-830-04 ³⁾	RGBW	RGB, white		493 lm	1293 lm	
LF1300RGBW -G1-840-04 ³⁾	RGBW	RGB, white		493 lm	1293 lm	
LF1300RGBW -G1-865-04 ³⁾	RGBW	RGB, white		493 lm	1293 lm	

Product description	Luminous efficacy	Color rendering index Ra	Color temperature	Luminous flux per meter
LF200C -G3-RGB-06 ¹⁾	32 lm/W	-		
LF05CA2 -RGB3 ²⁾				
LF05CE -RGB1				
LF700RGBW -G1-822-06 ³⁾	86 lm/W	80	2200 K	360 lm
LF700RGBW -G1-827-06 ³⁾	121 lm/W	80	2700 K	400 lm
LF700RGBW -G1-830-06 ³⁾	121 lm/W	80	3000 K	400 lm
LF700RGBW -G1-840-06 ³⁾	129 lm/W	80	4000 K	400 lm
LF700RGBW -G1-865-06 ³⁾	129 lm/W	80	6500 K	400 lm
LF1300RGBW -G1-822-04 ³⁾	77 lm/W	80	2200 K	720 lm
LF1300RGBW -G1-827-04 ³⁾	116 lm/W	80	2700 K	800 lm
LF1300RGBW -G1-830-04 ³⁾	116 lm/W	80	3000 K	800 lm
LF1300RGBW -G1-840-04 ³⁾	125 lm/W	80	4000 K	800 lm
LF1300RGBW -G1-865-04 ³⁾	125 lm/W	80	6500 K	800 lm

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Light technical data

Product description	Beam angle
LF200C -G3-RGB-06 ¹⁾	120 °
LF05CA2 -RGB3 ²⁾	120 °
LF05CE -RGB1	120 °
LF700RGBW -G1-822-06 ³⁾	120 °
LF700RGBW -G1-827-06 ³⁾	120 °
LF700RGBW -G1-830-06 ³⁾	120 °
LF700RGBW -G1-840-06 ³⁾	120 °
LF700RGBW -G1-865-06 ³⁾	120 °
LF1300RGBW -G1-822-04 ³⁾	120 °
LF1300RGBW -G1-827-04 ³⁾	120 °
LF1300RGBW -G1-830-04 ³⁾	120 °
LF1300RGBW -G1-840-04 ³⁾	120 °
LF1300RGBW -G1-865-04 ³⁾	120 °

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LED module information

Product description	Number of LEDs per module	Number of LEDs per meter	Number of LEDs per smallest unit
LF200C -G3-RGB-06 ¹⁾	200	33	5
LF05CA2 -RGB3 ²⁾	200	50	5
LF05CE -RGB1	200	33	5
LF700RGBW -G1-822-06 ³⁾	480	80	
LF700RGBW -G1-827-06 ³⁾	480	80	
LF700RGBW -G1-830-06 ³⁾	480	80	
LF700RGBW -G1-840-06 ³⁾	480	80	
LF700RGBW -G1-865-06 ³⁾	480	80	
LF1300RGBW -G1-822-04 ³⁾	468	120	
LF1300RGBW -G1-827-04 ³⁾	468	120	
LF1300RGBW -G1-830-04 ³⁾	468	120	
LF1300RGBW -G1-840-04 ³⁾	468	120	
LF1300RGBW -G1-865-04 ³⁾	468	120	

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Product family datasheet

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Dimensions & weight

Product description	Length	Length – smallest unit	Width	Height	Product weight
LF200C -G3-RGB-06 ¹⁾	6000 mm ⁴⁾	150.0 mm	8.0 mm	2.2 mm	43.25 g
LF05CA2 -RGB3 ²⁾	4000 mm	100.0 mm	8.0 mm	2.2 mm	43.23 g
LF05CE -RGB1	6000 mm ⁴⁾	150.0 mm	8.0 mm	2.2 mm	43.23 g
LF700RGBW -G1-822-06 ³⁾	6000 mm	150.0 mm	10.0 mm	1.4 mm	116.00 g
LF700RGBW -G1-827-06 ³⁾	6000 mm	150.0 mm	10.0 mm	1.4 mm	116.00 g
LF700RGBW -G1-830-06 ³⁾	6000 mm	150.0 mm	10.0 mm	1.4 mm	116.00 g
LF700RGBW -G1-840-06 ³⁾	6000 mm	150.0 mm	10.0 mm	1.4 mm	116.00 g
LF700RGBW -G1-865-06 ³⁾	6000 mm	150.0 mm	10.0 mm	1.4 mm	116.00 g
LF1300RGBW -G1-822-04 ³⁾	3900 mm	100.0 mm	10.0 mm	1.4 mm	91.00 g
LF1300RGBW -G1-827-04 ³⁾	3900 mm	100.0 mm	10.0 mm	1.4 mm	91.00 g
LF1300RGBW -G1-830-04 ³⁾	3900 mm	100.0 mm	10.0 mm	1.4 mm	91.00 g
LF1300RGBW -G1-840-04 ³⁾	3900 mm	100.0 mm	10.0 mm	1.4 mm	91.00 g
LF1300RGBW -G1-865-04 ³⁾	3900 mm	100.0 mm	10.0 mm	1.4 mm	91.00 g

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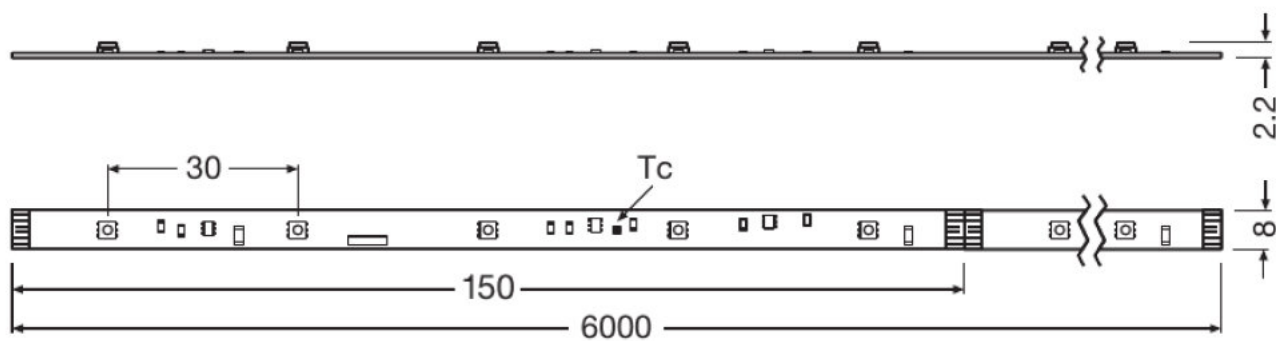
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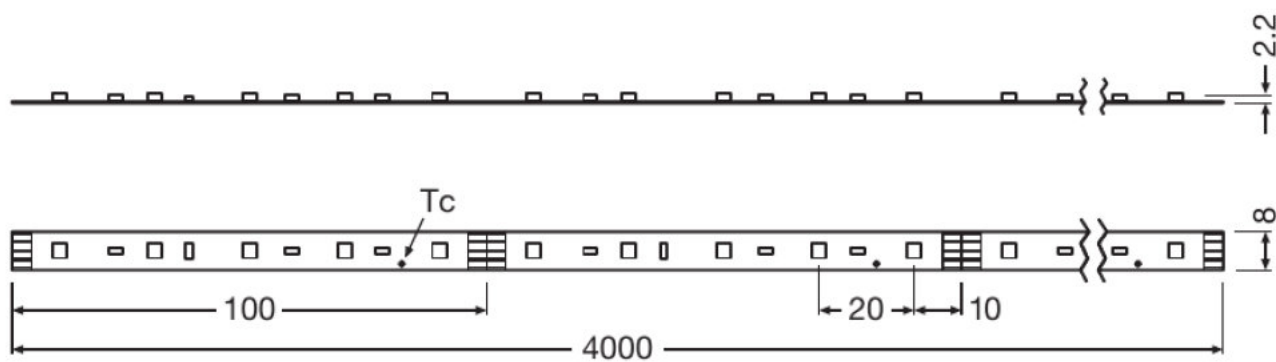
⁴⁾ LED pitch 30 mm

Product family datasheet

Product line drawing

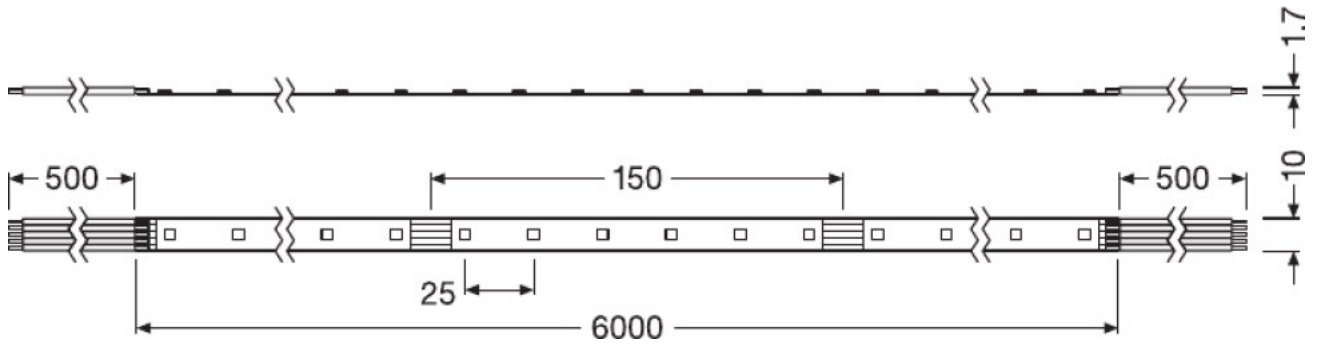


LF200C -G3-RGB-06, LF05CE -RGB1

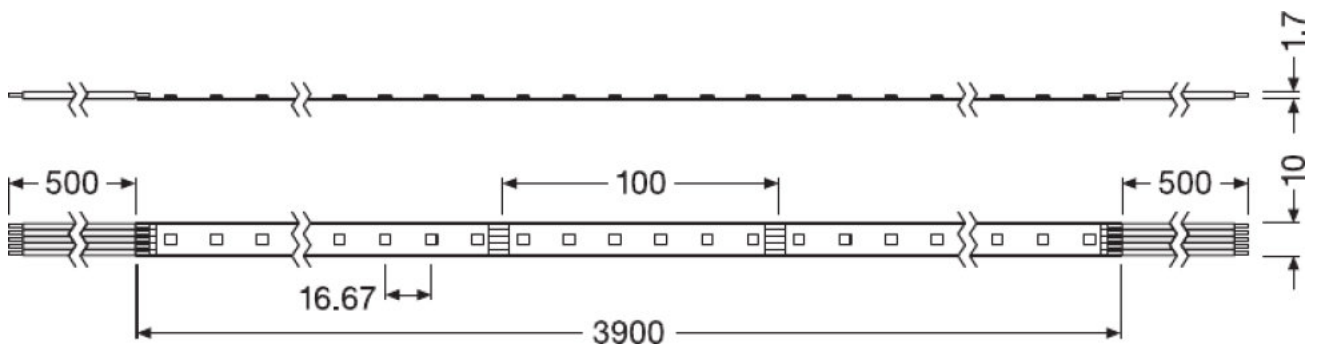


LF05CA2 -RGB3

Product family datasheet



LF700RGBW -G1-822-06, LF700RGBW -G1-827-06, LF700RGBW -G1-830-06, LF700RGBW -G1-840-06, LF700RGBW -G1-865-06



LF1300RGBW -G1-822-04, LF1300RGBW -G1-827-04, LF1300RGBW -G1-830-04, LF1300RGBW -G1-840-04, LF1300RGBW -G1-865-04

Temperatures & operating conditions

Product description	Temperature range in operation
LF200C -G3-RGB-06 ¹⁾	-20...75 °C
LF05CA2 -RGB3 ²⁾	-30...75 °C ⁴⁾
LF05CE -RGB1	-30...75 °C
LF700RGBW -G1-822-06 ³⁾	-20...75 °C
LF700RGBW -G1-827-06 ³⁾	-20...75 °C
LF700RGBW -G1-830-06 ³⁾	-20...75 °C
LF700RGBW -G1-840-06 ³⁾	-20...75 °C
LF700RGBW -G1-865-06 ³⁾	-20...75 °C
LF1300RGBW -G1-822-04 ³⁾	-20...75 °C
LF1300RGBW -G1-827-04 ³⁾	-20...75 °C
LF1300RGBW -G1-830-04 ³⁾	-20...75 °C
LF1300RGBW -G1-840-04 ³⁾	-20...75 °C
LF1300RGBW -G1-865-04 ³⁾	-20...75 °C

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⁴⁾ At the T_c point

Lifespan

Product description	Lifespan
LF200C -G3-RGB-06 ¹⁾	50000 h
LF05CA2 -RGB3 ²⁾	50000 h
LF05CE -RGB1	50000 h
LF700RGBW -G1-822-06 ³⁾	60000 h
LF700RGBW -G1-827-06 ³⁾	60000 h
LF700RGBW -G1-830-06 ³⁾	60000 h
LF700RGBW -G1-840-06 ³⁾	60000 h
LF700RGBW -G1-865-06 ³⁾	60000 h
LF1300RGBW -G1-822-04 ³⁾	60000 h
LF1300RGBW -G1-827-04 ³⁾	60000 h
LF1300RGBW -G1-830-04 ³⁾	60000 h
LF1300RGBW -G1-840-04 ³⁾	60000 h
LF1300RGBW -G1-865-04 ³⁾	60000 h

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Product family datasheet

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Capabilities

Product description	Dimmable
LF200C -G3-RGB-06 ¹⁾	Yes
LF05CA2 -RGB3 ²⁾	Yes
LF05CE -RGB1	Yes ⁴⁾
LF700RGBW -G1-822-06 ³⁾	Yes
LF700RGBW -G1-827-06 ³⁾	Yes
LF700RGBW -G1-830-06 ³⁾	Yes
LF700RGBW -G1-840-06 ³⁾	Yes
LF700RGBW -G1-865-06 ³⁾	Yes
LF1300RGBW -G1-822-04 ³⁾	Yes
LF1300RGBW -G1-827-04 ³⁾	Yes
LF1300RGBW -G1-830-04 ³⁾	Yes
LF1300RGBW -G1-840-04 ³⁾	Yes
LF1300RGBW -G1-865-04 ³⁾	Yes

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⁴⁾ PWM

Certificates & standards

Product description	Standards
LF200C -G3-RGB-06 ¹⁾	CE/UL/ENEC
LF05CA2 -RGB3 ²⁾	CE/UL/ENEC/VDE
LF05CE -RGB1	CE
LF700RGBW -G1-822-06 ³⁾	CE/UL/ENEC/EAC
LF700RGBW -G1-827-06 ³⁾	CE/UL/ENEC/EAC
LF700RGBW -G1-830-06 ³⁾	CE/UL/ENEC/EAC
LF700RGBW -G1-840-06 ³⁾	CE/UL/ENEC/EAC
LF700RGBW -G1-865-06 ³⁾	CE/UL/ENEC/EAC
LF1300RGBW -G1-822-04 ³⁾	CE/UL/ENEC/EAC
LF1300RGBW -G1-827-04 ³⁾	CE/UL/ENEC/EAC
LF1300RGBW -G1-830-04 ³⁾	CE/UL/ENEC/EAC
LF1300RGBW -G1-840-04 ³⁾	CE/UL/ENEC/EAC
LF1300RGBW -G1-865-04 ³⁾	CE/UL/ENEC/EAC

¹⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values/Color binning/With RGB wavelengths: R/G/B 625/525/465 nm

²⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values/Color binning/With RGB wavelengths: R/G/B 625/525/465 nm/White point binning

³⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values/Full single BIN on white and each color/With RGB wavelengths: R/G/B 622/534/485 nm

Logistical data

Product description	Temperature range at storage
LF200C -G3-RGB-06 ¹⁾	-40...85 °C
LF05CA2 -RGB3 ²⁾	
LF05CE -RGB1	
LF700RGBW -G1-822-06 ³⁾	-40...85 °C
LF700RGBW -G1-827-06 ³⁾	-40...85 °C
LF700RGBW -G1-830-06 ³⁾	-40...85 °C
LF700RGBW -G1-840-06 ³⁾	-40...85 °C
LF700RGBW -G1-865-06 ³⁾	-40...85 °C
LF1300RGBW -G1-822-04 ³⁾	-40...85 °C
LF1300RGBW -G1-827-04 ³⁾	-40...85 °C
LF1300RGBW -G1-830-04 ³⁾	-40...85 °C
LF1300RGBW -G1-840-04 ³⁾	-40...85 °C
LF1300RGBW -G1-865-04 ³⁾	-40...85 °C

¹⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from

Product family datasheet

the typical values/Color binning/With RGB wavelengths: R/G/B 625/525/465 nm

²⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values/Color binning/With RGB wavelengths: R/G/B 625/525/465 nm/White point binning

³⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see www.osram.com/led-systems/All the technical parameters apply to the entire module. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values/Full single BIN on white and each color/With RGB wavelengths: R/G/B 622/534/485 nm

Equipment / Accessories

- Simplified connection with optional matching CONNECTsystem for RGB
- 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-No.	STK number	UK Org
LF05CA2 -RGB3	4008321851536	-	-	4030217	-
LF05CE -RGB1	4008321593375	OSRLF05CERGB1	-	4031372	-

Download Data

File	
	Brochures Light is freedom of design (EN)
	Certificates EAC Certificate
	Certificates UL Certificate
	Declarations of conformity Manufacturer declaration
	Declarations of conformity Declaration of conformity
	Product Datasheet 343462_LF05CA2 - Technical Datasheet

Product family datasheet

	Brochures 602876_LINEARlight Colormix Flex and LINEARlight Colormix Flex Protect - Quick installation guide
	Certificates UL Certificate
	Certificates VDE-ENEC Certificate
	Declarations of conformity Declaration of conformity
	Declarations of conformity Manufacturer declaration
	Operating instructions 383685_LF05CA2 - User Manual
	Eulumdat 346256_20121105 D012850 LF05CA2
	Eulumdat 346257_LF05CA2 D012849 LDT
	Eulumdat 346258_LF05CA2 D012848 LDT
	Product Datasheet 335845_LINEARlight Colormix Flex LF05C (EN)
	Declarations of conformity 485561_EC-DoC LF05CACE
	Declarations of conformity 485562_Manufacturers-DoC LF05CACE
	Certificates ENEC10_VDE Certificate
	Declarations of conformity Declaration of Conformity
	Declarations of conformity Manufacturers Declaration of Conformity

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899501997	LF200C -G3-RGB-06	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1279.00 g
4008321851536	LF05CA2 -RGB3	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1515.00 g
4008321593375	LF05CE -RGB1	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1514.84 g
4052899525221	LF700RGBW -G1-822-06	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	2045.00 g
4052899525269	LF700RGBW -G1-827-06	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	2045.00 g

Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899525306	LF700RGBW -G1-830-06	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	2045.00 g
4052899540668	LF700RGBW -G1-840-06	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	2045.00 g
4052899525344	LF700RGBW -G1-865-06	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	2045.00 g
4052899525061	LF1300RGBW -G1-822-04	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1845.00 g
4052899525122	LF1300RGBW -G1-827-04	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1845.00 g
4052899525146	LF1300RGBW -G1-830-04	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1845.00 g
4052899540620	LF1300RGBW -G1-840-04	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1845.00 g
4052899525184	LF1300RGBW -G1-865-04	Shipping carton box 8	241 mm x 195 mm x 205 mm	9.63 dm ³	1845.00 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 Mandatory

Product description	Accessory name	Accessory code
LF05CE -RGB1	LINEARlight Colormix Flex, -4PIN FLEX	▶ 4008321514592

Accessories Optional

Product description	Accessory name	Accessory code
LF05CA2 -RGB3	LINEARlight FLEX, -2100	▶ 4008321978998
LF05CA2 -RGB3	LINEARlight FLEX, -SC08-G2--CT4PF-0500	▶ 4052899464810
LF05CA2 -RGB3	LINEARlight FLEX, -SC08-G2--CT4PF-1000	▶ 4052899464841
LF05CA2 -RGB3	LINEARlight FLEX, -SC08-G2-CT4PJ	▶ 4052899464872
LF05CE -RGB1	LINEARlight FLEX, -2100	▶ 4008321978998

References / Links

System configurator tool is available online at <https://flex.osram.info/en/flex-configurator>

Disclaimer

Product family datasheet

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