

LINEARlight FLEX DIFFUSE Top Monochrome

– LED modules for professional and industrial applications



Areas of application

- Individual and customized luminaires
- Organic shaped luminaires
- Architectural Integration – e.g. coves, walls
- Object integration – e.g. handrails
- Signage and illuminated advertising

Product benefits

- IP67 protection with high performance silicone
- Outdoor use possible: UV and salt mist resistant (UV acc. to ISO 4892-2 - Method A, salt mist acc. to IEC 60068-2-52 severity 1)

Product features

- Diffused light lines without visible spots
- Flexible and cuttable module to support design freedom
- Long operational length per single power feed possible (up to 6m)
- Ideal for luminaire designs
- Extra strong self-adhesive backside for easy mounting
- 24V technology for easy dimensioning
- Recommended in system use with OPTOTRONIC
- Increased reliability due to single piece reel-to-reel technology
- Dimmable with PWM technology



Product family datasheet

Technical data

Electrical data

Product description	Nominal voltage	Type of current	Nominal wattage per meter	Rated wattage	Input voltage range	Reverse Voltage
LFD400MT -G1-BL-06 ¹⁾	24.0 V	DC	12.0 W	72.00 W	23...25 V	25 V
LFD400MT -G1-GR-06 ¹⁾	24.0 V	DC	12.0 W	72.00 W	23...25 V	25 V
LFD400MT -G1-GR-03 ¹⁾	24.0 V	DC	12.0 W	36.00 W	23...25 V	25 V
LFD400MT -G1-RE-06 ¹⁾	24.0 V	DC	12.0 W	72.00 W	23...25 V	25 V
LFD400MT -G1-YE-06 ¹⁾	24.0 V	DC	12.0 W	72.00 W	23...25 V	25 V
LFD400MT -G1-OR-06 ¹⁾	24.0 V	DC	12.0 W	72.00 W	23...25 V	25 V

¹⁾ See product remark

Photometrical data

Product description	Light color LED	Luminous flux per meter	Total useful luminous flux	Luminous efficacy	Light color (designation)
LFD400MT -G1-BL-06 ¹⁾	Blue	60 lm	360 lm	5 lm/W	Blue
LFD400MT -G1-GR-06 ¹⁾	Green	285 lm	1710 lm	24 lm/W	Green
LFD400MT -G1-GR-03 ¹⁾	Green	285 lm	855 lm	48 lm/W	Green
LFD400MT -G1-RE-06 ¹⁾	Red	320 lm	1920 lm	27 lm/W	Red
LFD400MT -G1-YE-06 ¹⁾	Yellow	162 lm	972 lm	14 lm/W	Yellow
LFD400MT -G1-OR-06 ¹⁾	Orange	175 lm	1050 lm	15 lm/W	Orange

¹⁾ See product remark

Light technical data

Product description	LED pitch	Beam angle	Rated beam angle (half peak value)	Starting time	Warm-up time (60 %)
LFD400MT -G1-BL-06 ¹⁾	6.7 mm	120 °	120.00 °	< 0.5 s	0.00 s
LFD400MT -G1-GR-06 ¹⁾	6.7 mm	120 °	120.00 °	< 0.5 s	0.00 s
LFD400MT -G1-GR-03 ¹⁾	6.7 mm	120 °	120.00 °	< 0.5 s	0.00 s
LFD400MT -G1-RE-06 ¹⁾	6.7 mm	120 °	120.00 °	< 0.5 s	0.00 s
LFD400MT -G1-YE-06 ¹⁾	6.7 mm	120 °	120.00 °	< 0.5 s	0.00 s
LFD400MT -G1-OR-06 ¹⁾	6.7 mm	120 °	120.00 °	< 0.5 s	0.00 s

¹⁾ See product remark

Product family datasheet

LED module information

Product description	Number of LEDs per meter	Number of LEDs per smallest unit
LFD400MT -G1-BL-06 ¹⁾	150	6
LFD400MT -G1-GR-06 ¹⁾	150	6
LFD400MT -G1-GR-03 ¹⁾	150	6
LFD400MT -G1-RE-06 ¹⁾	150	6
LFD400MT -G1-YE-06 ¹⁾	150	6
LFD400MT -G1-OR-06 ¹⁾	150	6

¹⁾ See product remark

Dimensions & weight

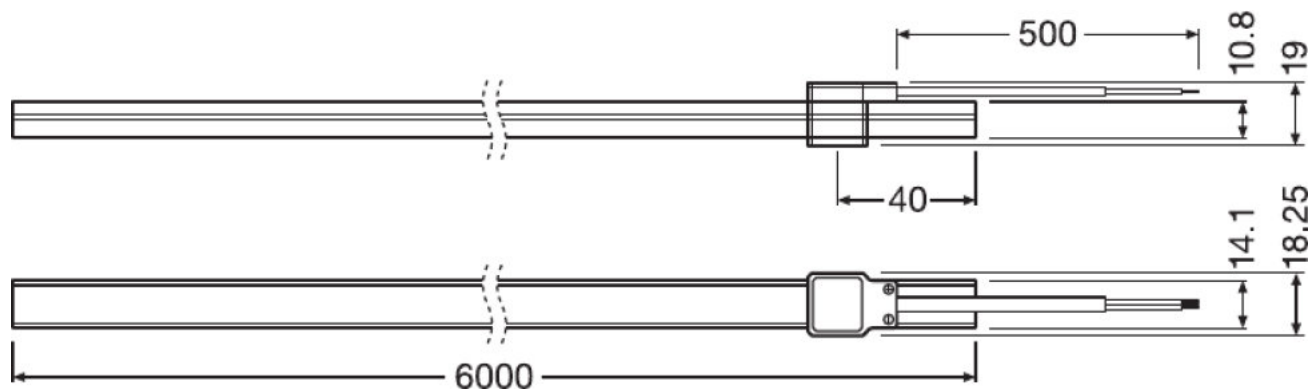
Product description	Length	Length – smallest unit	Width	Height	Cable length
LFD400MT -G1-BL-06 ¹⁾	6000 mm	40.0 mm	14.1 mm	10.0 mm	500.0 mm
LFD400MT -G1-GR-06 ¹⁾	6000 mm	40.0 mm	14.1 mm	10.0 mm	500.0 mm
LFD400MT -G1-GR-03 ¹⁾	3000 mm	40.0 mm	14.1 mm	10.0 mm	500.0 mm
LFD400MT -G1-RE-06 ¹⁾	6000 mm	40.0 mm	14.1 mm	10.0 mm	500.0 mm
LFD400MT -G1-YE-06 ¹⁾	6000 mm	40.0 mm	14.1 mm	10.0 mm	500.0 mm
LFD400MT -G1-OR-06 ¹⁾	6000 mm	40.0 mm	14.1 mm	10.0 mm	500.0 mm

Product description	Product weight
LFD400MT -G1-BL-06 ¹⁾	1040.00 g
LFD400MT -G1-GR-06 ¹⁾	1040.00 g
LFD400MT -G1-GR-03 ¹⁾	531.00 g
LFD400MT -G1-RE-06 ¹⁾	1040.00 g
LFD400MT -G1-YE-06 ¹⁾	1040.00 g
LFD400MT -G1-OR-06 ¹⁾	1040.00 g

¹⁾ See product remark

Product family datasheet

Product line drawing



LFD400MT -G1-BL-06, LFD400MT -G1-GR-06, LFD400MT -G1-GR-03, LFD400MT -G1-RE-06, LFD400MT -G1-YE-06, LFD400MT -G1-OR-06

Colors & materials

Product description	Cover material	Body material
LFD400MT -G1-BL-06 ¹⁾	Silicone	Silicone
LFD400MT -G1-GR-06 ¹⁾	Silicone	Silicone
LFD400MT -G1-GR-03 ¹⁾	Silicone	Silicone
LFD400MT -G1-RE-06 ¹⁾	Silicone	Silicone
LFD400MT -G1-YE-06 ¹⁾	Silicone	Silicone
LFD400MT -G1-OR-06 ¹⁾	Silicone	Silicone

¹⁾ See product remark

Product family datasheet

Temperatures & operating conditions

Product description	Performance temp. acc. to IEC 62717	Temperature range in operation at Tc point	Ambient temperature range
LFD400MT -G1-BL-06 ¹⁾	35 °C	-20...65 °C ²⁾	-20...+50 °C ³⁾
LFD400MT -G1-GR-06 ¹⁾	35 °C	-20...65 °C ²⁾	-20...+50 °C ³⁾
LFD400MT -G1-GR-03 ¹⁾	35 °C	-20...65 °C ²⁾	-20...+50 °C ³⁾
LFD400MT -G1-RE-06 ¹⁾	35 °C	-20...65 °C ²⁾	-20...+50 °C ³⁾
LFD400MT -G1-YE-06 ¹⁾	35 °C	-20...65 °C ²⁾	-20...+50 °C ³⁾
LFD400MT -G1-OR-06 ¹⁾	35 °C	-20...65 °C ²⁾	-20...+50 °C ³⁾

¹⁾ See product remark

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 Tc point is below max value during operation/Temperature ramping for environmental testing acc. to IEC 62717, 1K/min

Lifespan

Product description	Rated lamp life time	Nominal lamp life time	Lumen main. fact. at end of nom. life time	Number of switching cycles
LFD400MT -G1-BL-06 ¹⁾	50000 h ²⁾	50000 h	0.70	≥ 15000
LFD400MT -G1-GR-06 ¹⁾	50000 h ²⁾	50000 h	0.70	≥ 15000
LFD400MT -G1-GR-03 ¹⁾	50000 h ²⁾	50000 h	0.70	≥ 15000
LFD400MT -G1-RE-06 ¹⁾	20000 h ²⁾	20000 h	0.70	≥ 15000
LFD400MT -G1-YE-06 ¹⁾	20000 h ²⁾	20000 h	0.70	≥ 15000
LFD400MT -G1-OR-06 ¹⁾	20000 h ²⁾	20000 h	0.70	≥ 15000

¹⁾ See product remark

²⁾ L70/B50

Capabilities

Product description	Dimmable	Lowest bending radius	Self-adhesive
LFD400MT -G1-BL-06 ¹⁾	Yes ²⁾	100 mm	Yes
LFD400MT -G1-GR-06 ¹⁾	Yes ²⁾	100 mm	Yes
LFD400MT -G1-GR-03 ¹⁾	Yes ²⁾	100 mm	Yes
LFD400MT -G1-RE-06 ¹⁾	Yes ²⁾	100 mm	Yes
LFD400MT -G1-YE-06 ¹⁾	Yes ²⁾	100 mm	Yes
LFD400MT -G1-OR-06 ¹⁾	Yes ²⁾	100 mm	Yes

Product description	With connection set	With end piece
LFD400MT -G1-BL-06 ¹⁾	Yes	No
LFD400MT -G1-GR-06 ¹⁾	Yes	No
LFD400MT -G1-GR-03 ¹⁾	Yes	Yes
LFD400MT -G1-RE-06 ¹⁾	Yes	No
LFD400MT -G1-YE-06 ¹⁾	Yes	No

Product family datasheet

Product description	With connection set	With end piece
LFD400MT -G1-OR-06 ¹⁾	Yes	No

¹⁾ See product remark

²⁾ PWM

Certificates & standards

Product description	Energy consumption	Standards	Type of protection
LFD400MT -G1-BL-06 ¹⁾	80 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP66/IP67
LFD400MT -G1-GR-06 ¹⁾	80 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP66/IP67
LFD400MT -G1-GR-03 ¹⁾	40 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP66/IP67
LFD400MT -G1-RE-06 ¹⁾	80 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP66/IP67
LFD400MT -G1-YE-06 ¹⁾	80 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP66/IP67
LFD400MT -G1-OR-06 ¹⁾	80 kWh/1000h	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750	IP66/IP67

¹⁾ See product remark

Logistical data

Product description	Temperature range at storage
LFD400MT -G1-BL-06 ¹⁾	-20...85 °C
LFD400MT -G1-GR-06 ¹⁾	-20...85 °C
LFD400MT -G1-GR-03 ¹⁾	-20...85 °C
LFD400MT -G1-RE-06 ¹⁾	-20...85 °C
LFD400MT -G1-YE-06 ¹⁾	-20...85 °C
LFD400MT -G1-OR-06 ¹⁾	-20...85 °C

¹⁾ See product remark

Product remark

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

Application advice


















Product family datasheet

For more detailed application information and graphics please see product datasheet.


Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction LINEARLIGHT Flex Diffuse Installation Guide - Naed Version (EN)
	Product Datasheet LINEARlight FLEX DIFFUSE Top Specification Sheet (EN)
	Brochures Light is freedom of design (EN)
	Certificates VDE-ENEC Certificate
	Certificates UL Certificate
	Certificates CB TEST CERTIFICATE DE-57743
	Declarations of conformity 726047_Declaration of Conformity_LINEARlight Flex Diffuse
	Declarations of conformity 726048_Manufacturer Declaration_LINEARlight Flex Diffuse
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Product family datasheet

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	Eulumdat Eulumdat LFD400MT- G1-OR-06
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	IES data IES LFD400MT- G1-OR-06

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899953550	LFD400MT -G1-BL-06	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	13358.00 g
4052899953567	LFD400MT -G1-GR-06	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	13358.00 g
4052899450851	LFD400MT -G1-GR-03	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	10304.00 g
4052899953574	LFD400MT -G1-RE-06	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	13358.00 g
4052899953581	LFD400MT -G1-YE-06	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	13358.00 g

Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899953598	LFD400MT -G1-OR-06	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	13358.00 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
LFD400MT -G1-BL-06	FX-DCS -G1-CM2PF-IP67-500-X5	▶ 4052899451971
LFD400MT -G1-GR-06	FX-DCS -G1-CM2PF-IP67-500-X5	▶ 4052899451971
LFD400MT -G1-GR-03	FX-DCS -G1-CM2PF-IP67-500-X5	▶ 4052899451971
LFD400MT -G1-RE-06	FX-DCS -G1-CM2PF-IP67-500-X5	▶ 4052899451971
LFD400MT -G1-YE-06	FX-DCS -G1-CM2PF-IP67-500-X5	▶ 4052899451971
LFD400MT -G1-OR-06	FX-DCS -G1-CM2PF-IP67-500-X5	▶ 4052899451971

Accessories Optional

Product description	Accessory name	Accessory code
LFD400MT -G1-BL-06	FX-LFDM -G1-BT-17H11	▶ 4052899452480
LFD400MT -G1-BL-06	FX-LFDM -G1-BTL-17H11E9	▶ 4052899452510
LFD400MT -G1-BL-06	FX-DCS -G1-CM2PF-IP67-TOPKIT5	▶ 4052899451995
LFD400MT -G1-BL-06	FX-DCS -G1-CM2PJ-IP67-0190-X5	▶ 4052899452039
LFD400MT -G1-BL-06	FX-DCS -G1-CM2PJ-IP67-TOPKIT5	▶ 4052899452053
LFD400MT -G1-BL-06	FX-DCS -G1-ECT-KIT20	▶ 4052899452107
LFD400MT -G1-BL-06	FX-DCS -G1-EHT-KIT20	▶ 4052899452176
LFD400MT -G1-BL-06	FX-DCS -G1-GL-25	▶ 4052899452244
LFD400MT -G1-GR-06	FX-LFDM -G1-BT-17H11	▶ 4052899452480
LFD400MT -G1-GR-06	FX-LFDM -G1-BTL-17H11E9	▶ 4052899452510
LFD400MT -G1-GR-06	FX-DCS -G1-CM2PF-IP67-TOPKIT5	▶ 4052899451995
LFD400MT -G1-GR-06	FX-DCS -G1-CM2PJ-IP67-0190-X5	▶ 4052899452039
LFD400MT -G1-GR-06	FX-DCS -G1-CM2PJ-IP67-TOPKIT5	▶ 4052899452053
LFD400MT -G1-GR-06	FX-DCS -G1-ECT-KIT20	▶ 4052899452107
LFD400MT -G1-GR-06	FX-DCS -G1-EHT-KIT20	▶ 4052899452176
LFD400MT -G1-GR-06	FX-DCS -G1-GL-25	▶ 4052899452244
LFD400MT -G1-GR-03	FX-LFDM -G1-BT-17H11	▶ 4052899452480
LFD400MT -G1-GR-03	FX-LFDM -G1-BTL-17H11E9	▶ 4052899452510
		▶ 4052899451995

Product family datasheet

LFD400MT -G1-GR-03	FX-DCS -G1-CM2PF-IP67-TOPKIT5	
LFD400MT -G1-GR-03	FX-DCS -G1-CM2PJ-IP67-0190-X5	▶ 4052899452039
LFD400MT -G1-GR-03	FX-DCS -G1-CM2PJ-IP67-TOPKIT5	▶ 4052899452053
LFD400MT -G1-GR-03	FX-DCS -G1-ECT-KIT20	▶ 4052899452107
LFD400MT -G1-GR-03	FX-DCS -G1-EHT-KIT20	▶ 4052899452176
LFD400MT -G1-GR-03	FX-DCS -G1-GL-25	▶ 4052899452244
LFD400MT -G1-RE-06	FX-LFDM -G1-BT-17H11	▶ 4052899452480
LFD400MT -G1-RE-06	FX-LFDM -G1-BTL-17H11E9	▶ 4052899452510
LFD400MT -G1-RE-06	FX-DCS -G1-CM2PF-IP67-TOPKIT5	▶ 4052899451995
LFD400MT -G1-RE-06	FX-DCS -G1-CM2PJ-IP67-0190-X5	▶ 4052899452039
LFD400MT -G1-RE-06	FX-DCS -G1-CM2PJ-IP67-TOPKIT5	▶ 4052899452053
LFD400MT -G1-RE-06	FX-DCS -G1-ECT-KIT20	▶ 4052899452107
LFD400MT -G1-RE-06	FX-DCS -G1-EHT-KIT20	▶ 4052899452176
LFD400MT -G1-RE-06	FX-DCS -G1-GL-25	▶ 4052899452244
LFD400MT -G1-YE-06	FX-LFDM -G1-BT-17H11	▶ 4052899452480
LFD400MT -G1-YE-06	FX-LFDM -G1-BTL-17H11E9	▶ 4052899452510
LFD400MT -G1-YE-06	FX-DCS -G1-CM2PF-IP67-TOPKIT5	▶ 4052899451995
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LFD400MT -G1-YE-06	FX-DCS -G1-CM2PJ-IP67-TOPKIT5	▶ 4052899452053
LFD400MT -G1-YE-06	FX-DCS -G1-ECT-KIT20	▶ 4052899452107
LFD400MT -G1-YE-06	FX-DCS -G1-EHT-KIT20	▶ 4052899452176
LFD400MT -G1-YE-06	FX-DCS -G1-GL-25	▶ 4052899452244
LFD400MT -G1-OR-06	FX-LFDM -G1-BT-17H11	▶ 4052899452480
LFD400MT -G1-OR-06	FX-LFDM -G1-BTL-17H11E9	▶ 4052899452510
LFD400MT -G1-OR-06	FX-DCS -G1-CM2PF-IP67-TOPKIT5	▶ 4052899451995
LFD400MT -G1-OR-06	FX-DCS -G1-CM2PJ-IP67-0190-X5	▶ 4052899452039
LFD400MT -G1-OR-06	FX-DCS -G1-CM2PJ-IP67-TOPKIT5	▶ 4052899452053
LFD400MT -G1-OR-06	FX-DCS -G1-ECT-KIT20	▶ 4052899452107
LFD400MT -G1-OR-06	FX-DCS -G1-EHT-KIT20	▶ 4052899452176
LFD400MT -G1-OR-06	FX-DCS -G1-GL-25	▶ 4052899452244

References / Links

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

Disclaimer

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