

LINEARlight FLEX DIFFUSE Top White

– 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



Technical data

Electrical data

Product description	Nominal voltage	Nominal wattage per meter	Rated wattage	Reverse Voltage	Input voltage range
LFD400T -G1-827-06 ¹⁾	24.0 V	7.2 W	43.20 W	25 V	23...25 V
LFD400T -G1-830-06 ¹⁾	24.0 V	7.2 W	43.20 W	25 V	23...25 V
LFD400T -G1-840-06 ¹⁾	24.0 V	7.2 W	43.20 W	25 V	23...25 V
LFD400T -G1-865-06 ¹⁾	24.0 V	7.2 W	43.20 W	25 V	23...25 V
LFD800T -G1-827-06 ¹⁾	24.0 V	11.5 W	69.20 W	25 V	23...25 V
LFD800T -G1-830-06 ¹⁾	24.0 V	11.5 W	69.20 W	25 V	23...25 V
LFD800T -G1-840-06 ¹⁾	24.0 V	11.5 W	69.20 W	25 V	23...25 V
LFD800T -G1-865-06 ¹⁾	24.0 V	11.5 W	69.20 W	25 V	23...25 V

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

Photometrical data

Product description	Color temperature	Light color (designation)	Light color LED	Luminous flux per meter	Luminous efficacy	Luminous flux
LFD400T -G1-827-06 ¹⁾	2700 K	Warm White	White	490 lm	68 lm/W	2940 lm
LFD400T -G1-830-06 ¹⁾	3000 K	White	White	490 lm	68 lm/W	2940 lm
LFD400T -G1-840-06 ¹⁾	4000 K	Cool White	White	480 lm	67 lm/W	2880 lm
LFD400T -G1-865-06 ¹⁾	6500 K	Cool Daylight	White	460 lm	64 lm/W	2760 lm
LFD800T -G1-827-06 ¹⁾	2700 K	Warm White	White	750 lm	65.1 lm/W	4500 lm
LFD800T -G1-830-06 ¹⁾	3000 K	Warm White	White	750 lm	65.1 lm/W	4500 lm
LFD800T -G1-840-06 ¹⁾	4000 K	Cool White	White	720 lm	62.5 lm/W	4320 lm
LFD800T -G1-865-06 ¹⁾	6500 K	Cool Daylight	White	660 lm	57.3 lm/W	3960 lm

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Product family datasheet

Light technical data

Product description	Beam angle
LFD400T -G1-827-06 ¹⁾	120 °
LFD400T -G1-830-06 ¹⁾	120 °
LFD400T -G1-840-06 ¹⁾	120 °
LFD400T -G1-865-06 ¹⁾	120 °
LFD800T -G1-827-06 ¹⁾	120 °
LFD800T -G1-830-06 ¹⁾	120 °
LFD800T -G1-840-06 ¹⁾	120 °
LFD800T -G1-865-06 ¹⁾	120 °

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LED module information

Product description	Number of LEDs per module	Number of LEDs per meter
LFD400T -G1-827-06 ¹⁾	840	140
LFD400T -G1-830-06 ¹⁾	840	140
LFD400T -G1-840-06 ¹⁾	840	140
LFD400T -G1-865-06 ¹⁾	840	140
LFD800T -G1-827-06 ¹⁾	840	140
LFD800T -G1-830-06 ¹⁾	840	140
LFD800T -G1-840-06 ¹⁾	840	140
LFD800T -G1-865-06 ¹⁾	840	140

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Product family datasheet

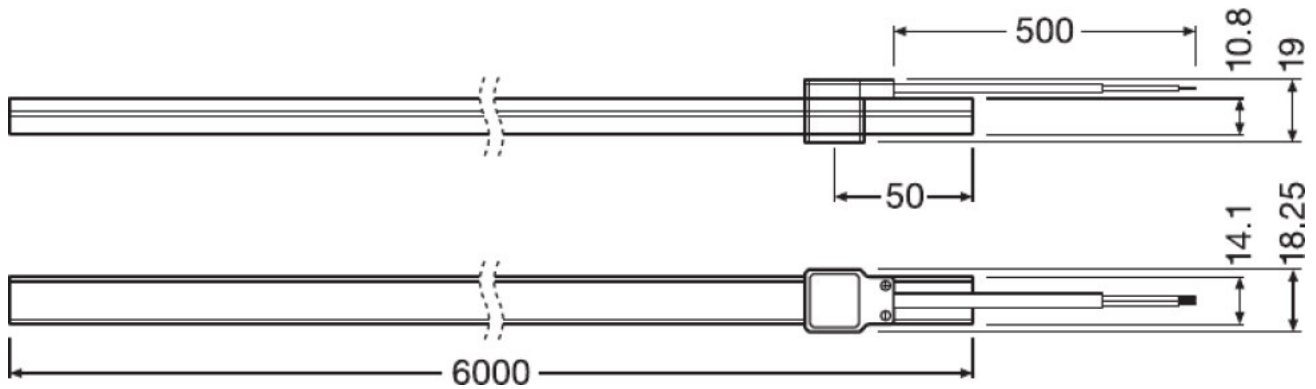
Dimensions & weight

Product description	Length	Width	Height	Product weight	Length – smallest unit
LFD400T -G1-827-06 ¹⁾	6000 mm	14.1 mm	10.8 mm ²⁾	1040.00 g	50.0 mm
LFD400T -G1-830-06 ¹⁾	6000 mm	14.1 mm	10.8 mm ²⁾	1040.00 g	50.0 mm
LFD400T -G1-840-06 ¹⁾	6000 mm	14.1 mm	10.8 mm ²⁾	1040.00 g	50.0 mm
LFD400T -G1-865-06 ¹⁾	6000 mm	14.1 mm	10.8 mm ²⁾	1040.00 g	50.0 mm
LFD800T -G1-827-06 ¹⁾	6000 mm	14.1 mm	10.8 mm ²⁾	1040.00 g	
LFD800T -G1-830-06 ¹⁾	6000 mm	14.1 mm	10.8 mm ²⁾	1040.00 g	
LFD800T -G1-840-06 ¹⁾	6000 mm	14.1 mm	10.8 mm ²⁾	1040.00 g	
LFD800T -G1-865-06 ¹⁾	6000 mm	14.1 mm	10.8 mm ²⁾	1040.00 g	

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²⁾ +/- 0.5mm

Product line drawing



LFD400T -G1-827-06, LFD400T -G1-830-06, LFD400T -G1-840-06, LFD400T -G1-865-06, LFD800T -G1-827-06, LFD800T -G1-830-06, LFD800T -G1-840-06, LFD800T -G1-865-06

Product family datasheet

Temperatures & operating conditions

Product description	Temperature range in operation
LFD400T -G1-827-06 ¹⁾	-20...65 °C
LFD400T -G1-830-06 ¹⁾	-20...65 °C
LFD400T -G1-840-06 ¹⁾	-20...65 °C
LFD400T -G1-865-06 ¹⁾	-20...65 °C
LFD800T -G1-827-06 ¹⁾	-20...65 °C
LFD800T -G1-830-06 ¹⁾	-20...65 °C
LFD800T -G1-840-06 ¹⁾	-20...65 °C
LFD800T -G1-865-06 ¹⁾	-20...65 °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 the typical values

Lifespan

Product description	Lifespan
LFD400T -G1-827-06 ¹⁾	50000 h ²⁾
LFD400T -G1-830-06 ¹⁾	50000 h ²⁾
LFD400T -G1-840-06 ¹⁾	50000 h ²⁾
LFD400T -G1-865-06 ¹⁾	50000 h ²⁾
LFD800T -G1-827-06 ¹⁾	50000 h ²⁾
LFD800T -G1-830-06 ¹⁾	50000 h ²⁾
LFD800T -G1-840-06 ¹⁾	50000 h ²⁾
LFD800T -G1-865-06 ¹⁾	50000 h ²⁾

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²⁾ L70/B50

Capabilities

Product description	Dimmable
LFD400T -G1-827-06 ¹⁾	Yes ²⁾
LFD400T -G1-830-06 ¹⁾	Yes ²⁾
LFD400T -G1-840-06 ¹⁾	Yes ²⁾
LFD400T -G1-865-06 ¹⁾	Yes ²⁾
LFD800T -G1-827-06 ¹⁾	Yes ²⁾
LFD800T -G1-830-06 ¹⁾	Yes ²⁾
LFD800T -G1-840-06 ¹⁾	Yes ²⁾
LFD800T -G1-865-06 ¹⁾	Yes ²⁾

¹⁾ Modules perfectly matched to OSRAM OPTOTRONIC LED drivers (see relevant table)/For current photometric data and important safety, installation and application information, see

Product family datasheet

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²⁾ PWM

Certificates & standards

Product description	Standards
LFD400T -G1-827-06 ¹⁾	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LFD400T -G1-830-06 ¹⁾	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LFD400T -G1-840-06 ¹⁾	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LFD400T -G1-865-06 ¹⁾	CE; ENEC 10 VDE/EAC/UL Recognized component according UL 8750
LFD800T -G1-827-06 ¹⁾	CE/UL Recognized component according UL 8750/VDE/ENEC/EAC
LFD800T -G1-830-06 ¹⁾	CE/UL Recognized component according UL 8750/VDE/ENEC/EAC
LFD800T -G1-840-06 ¹⁾	CE/UL Recognized component according UL 8750/VDE/ENEC/EAC
LFD800T -G1-865-06 ¹⁾	CE/UL Recognized component according UL 8750/VDE/ENEC/EAC

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Logistical data

Product description	Temperature range at storage
LFD400T -G1-827-06 ¹⁾	-20...85 °C
LFD400T -G1-830-06 ¹⁾	-20...85 °C
LFD400T -G1-840-06 ¹⁾	-20...85 °C
LFD400T -G1-865-06 ¹⁾	-20...85 °C
LFD800T -G1-827-06 ¹⁾	-20...85 °C
LFD800T -G1-830-06 ¹⁾	-20...85 °C
LFD800T -G1-840-06 ¹⁾	-20...85 °C
LFD800T -G1-865-06 ¹⁾	-20...85 °C

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Application advice


















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

Sales and Technical Support

Sales and Technical Support www.osram.com

Product family datasheet

Download Data

File	
	User instruction 728734_UI LINEARlight FLEX DIFFUSE
	Brochures Light is freedom of design (EN)
	Certificates VDE-ENEC Certificate
	Declarations of conformity 726047_Declaration of Conformity_LINEARlight Flex Diffuse
	Declarations of conformity 726048_Manufacturer Declaration_LINEARlight Flex Diffuse
	Eulumdat 727612_Eulumdat_LFD400T-G1-827-06.ltd
	IES data 727627_IES data_LFD400T-G1-827-06.ies
	Eulumdat 727613_Eulumdat_LFD400T-G1-830-06.ltd
	IES data 727628_IES data_LFD400T-G1-830-06.ies
	Eulumdat 727614_Eulumdat_LFD400T-G1-840-06.ltd
	IES data 727629_IES data_LFD400T-G1-840-06.ies
	Eulumdat 727615_Eulumdat_LFD400T-G1-865-06.ltd
	IES data 727630_IES data_LFD400T-G1-865-06.ies
	Certificates EAC Certificate
	Certificates Certificate of Compliance LFD800T and LFD600S G1
	Declarations of conformity Declaration of conformity LFD600S and LFD800T
	Declarations of conformity Manufacturer declaration LFD600S and LFD800T

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899953512	LFD400T -G1-827-06	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	8330.00 g
4052899953529	LFD400T -G1-830-06	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	8330.00 g

Product family datasheet

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899953536	LFD400T -G1-840-06	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	8330.00 g
4052899953543	LFD400T -G1-865-06	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	8330.00 g
4052899499768	LFD800T -G1-827-06	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	9194.00 g
4052899499805	LFD800T -G1-830-06	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	9194.00 g
4052899499843	LFD800T -G1-840-06	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	9194.00 g
4052899499881	LFD800T -G1-865-06	Shipping carton box 6	519 mm x 246 mm x 525 mm	67.03 dm ³	9194.00 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
LFD400T -G1-827-06	LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-500-X5	▶ 4052899451988
LFD400T -G1-830-06	LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-500-X5	▶ 4052899451988
LFD400T -G1-840-06	LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-500-X5	▶ 4052899451988
LFD400T -G1-865-06	LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-500-X5	▶ 4052899451988

Accessories Optional

Product description	Accessory name	Accessory code
LFD400T -G1-827-06	LINEARlight FLEX DIFFUSE, -G1-BT-17H11	▶ 4052899452503
LFD400T -G1-827-06	LINEARlight FLEX DIFFUSE, -G1-BTL-17H11E9	▶ 4052899452534
LFD400T -G1-827-06	LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-TOPKIT5	▶ 4052899452008
LFD400T -G1-827-06	LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-0190-X5	▶ 4052899452046
LFD400T -G1-827-06	LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-TOPKIT5	▶ 4052899452060
LFD400T -G1-827-06	LINEARlight FLEX DIFFUSE, -G1-ECT-KIT20	▶ 4052899452114
LFD400T -G1-827-06	LINEARlight FLEX DIFFUSE, -G1-EHT-KIT20	▶ 4052899452183
LFD400T -G1-827-06	LINEARlight FLEX DIFFUSE, -G1-GL-25	▶ 4052899452251
LFD400T -G1-830-06	LINEARlight FLEX DIFFUSE, -G1-BT-17H11	▶ 4052899452503
LFD400T -G1-830-06	LINEARlight FLEX DIFFUSE, -G1-BTL-17H11E9	▶ 4052899452534
LFD400T -G1-830-06	LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-TOPKIT5	▶ 4052899452008
LFD400T -G1-830-06	LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-0190-X5	▶ 4052899452046

Product family datasheet

LFD400T -G1-830-06	LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-TOPKIT5	4052899452060
LFD400T -G1-830-06	LINEARlight FLEX DIFFUSE, -G1-ECT-KIT20	▶ 4052899452114
LFD400T -G1-830-06	LINEARlight FLEX DIFFUSE, -G1-EHT-KIT20	▶ 4052899452183
LFD400T -G1-830-06	LINEARlight FLEX DIFFUSE, -G1-GL-25	▶ 4052899452251
LFD400T -G1-840-06	LINEARlight FLEX DIFFUSE, -G1-BT-17H11	▶ 4052899452503
LFD400T -G1-840-06	LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-0190-X5	▶ 4052899452046
LFD400T -G1-840-06	LINEARlight FLEX DIFFUSE, -G1-BTL-17H11E9	▶ 4052899452534
LFD400T -G1-840-06	LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-TOPKIT5	▶ 4052899452008
LFD400T -G1-840-06	LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-TOPKIT5	▶ 4052899452060
LFD400T -G1-840-06	LINEARlight FLEX DIFFUSE, -G1-ECT-KIT20	▶ 4052899452114
LFD400T -G1-840-06	LINEARlight FLEX DIFFUSE, -G1-EHT-KIT20	▶ 4052899452183
LFD400T -G1-840-06	LINEARlight FLEX DIFFUSE, -G1-GL-25	▶ 4052899452251
LFD400T -G1-865-06	LINEARlight FLEX DIFFUSE, -G1-BT-17H11	▶ 4052899452503
LFD400T -G1-865-06	LINEARlight FLEX DIFFUSE, -G1-BTL-17H11E9	▶ 4052899452534
LFD400T -G1-865-06	LINEARlight FLEX DIFFUSE, -G1-CM2PF-IP67-TOPKIT5	▶ 4052899452008
LFD400T -G1-865-06	LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-0190-X5	▶ 4052899452046
LFD400T -G1-865-06	LINEARlight FLEX DIFFUSE, -G1-CM2PJ-IP67-TOPKIT5	▶ 4052899452060
LFD400T -G1-865-06	LINEARlight FLEX DIFFUSE, -G1-ECT-KIT20	▶ 4052899452114
LFD400T -G1-865-06	LINEARlight FLEX DIFFUSE, -G1-EHT-KIT20	▶ 4052899452183
LFD400T -G1-865-06	LINEARlight FLEX DIFFUSE, -G1-GL-25	▶ 4052899452251

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.