

product_datasheet_title LFD400T -G1-827-06

LINEARlight FLEX® DIFFUSE Top White | LED modules for professional and industrial applications



areas_of_application

- Individualized & customized luminaires
- Organically shaped luminaires
- Architectural integration (coves and walls)
- Object integration (handrails)
- Signage applications

product_benefits

- Extra strong self-adhesive backside for easy mounting
- Mounting clip accessories available to increase the versatility of the system
- Optimally paired with OPTOTRONIC 24VDC power supplies
- Increased reliability due to single piece reel-to-reel technology
- Dimmable with PWM technology

product_features

- Saturated, homogeneous linear LED modules with the look of neon
- Flexible and field cuttable module to support design freedom
- IP67 protection with high performance silicone
- Outdoor use possible: UV and salt mist resistant
- Long, operational length per single power feed possible (up to 6m)



- Produced in Top bending (LFD400T) and Side bending (LFD400S) versions
- 24 V technology for easy dimensioning
- Available in four CCTs of white (2700 K to 6500 K) and five monochrome colors (LFD400MT and LFD400MS)

technical_data

ELECTRICAL DATA

Nominal wattage	43.20 W
Construction wattage	43.20 W
Nominal wattage per meter	7,2 W
Nominal voltage	24 V
Input voltage range	23...25 V
Reverse Voltage	25 V
Type of current	DC
Nominal current	1800.000 mA

PHOTOMETRICAL DATA

Total useful luminous flux [PICOS]	3240 lm
Luminous efficacy	75 lm/W
Luminous flux	3240 lm
Luminous flux per meter	540 lm
Color temperature	2747 K
Color rendering index Ra	> 80
Light color LED	White
Light color (designation)	White
Standard deviation of color matching	≤3 sdcn
Lumen main.fact.at end of nom.life time	0.70

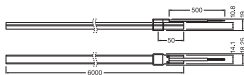
LIGHT TECHNICAL DATA

Beam angle	120 °
Rated beam angle (half peak value)	120.00 °
Starting time	< 0.5 s
Warm-up time (60 %)	0.00 s

LED MODULE INFORMATION

Number of LEDs per meter	140
Number of LEDs per smallest unit	7

DIMENSIONS & WEIGHT



Length	6000.00 mm
Length – smallest unit	50,0 mm
Cable length	500.000
Width	14.10 mm
Height	10.80 mm
Cable cross-section, input side	1 mm ²
Conductor cross section	1.0 mm ²
LED pitch	7,14 mm
Product weight	1040.00 g

COLORS & MATERIALS

Cover material	Silicone
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TEMPERATURES & OPERATING CONDITIONS

Ambient temperature range	-30...+50 °C ¹⁾
Maximum temperature at tc test point	-30...75 °C
Temperature range in operation	-30...75 °C ²⁾
Performance temp. acc. to IEC 62717	35 °C ³⁾

1) Providing that temperature at Tc point is below max value during operation / Rated ambient temp. 25°C / Temperature ramping for environmental testing acc. to IEC 62717, 1K/min

2) Exceeding the maximum ratings will reduce expected life time or destroy the LED strip.

3) Tp rated. Tp point coincides with Tc point - marked on device

LIFESPAN

Nominal lamp life time	50000 h
Number of switching cycles	30000

CAPABILITIES

Dimmable	yes
Dimming interface	PWM
Type of installation	Surface mounting
Lowest bending radius	100 mm

Self-adhesive	Yes
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CERTIFICATES & STANDARDS



Standards	CE; ENEC 10 VDE / EAC / UL Recognized component according UL 8750
Type of protection	IP66/IP67
Energy class of contained light source	E

LOGISTICAL DATA

Temperature range at storage	-30...75 °C
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download_data

Documents and certificates		document_name
	User instruction	LINEARlight FLEX DIFFUSE
	Declarations Of Conformity CE	726047_Declaration of Conformity_LINEARlight Flex Diffuse
	Declarations Of Conformity CE	726048_Manufacturer Declaration_LINEARlight Flex Diffuse
	Certificates	CB TEST CERTIFICATE DE-57743
	Certificates	VDE-ENEC Certificate

Photometric and lighting design files		document_name
	IES file (IES)	IES data LFD400T-G1-827-06
	LDT file (Eulumdat)	Eulumdat LFD400T-G1-827-06

logistical_data

product_code	packaging_unit	dimensions	weight	volume
4052899581661	Folding box 1	506 mm x 502 mm x 37 mm	2148.00 g	9.40 dm ³
4052899581678	Shipping box 6	519 mm x 246 mm x 525 mm	13358.00 g	67.03 dm ³

logistical_data_text

disclaimer_title

disclaimer_text