

PRODUCT DATASHEET 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 |

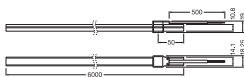
Light technical data

| | |
|------------------------------------|----------|
| 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 |
|----------------|----------|

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 |
|---------------|-----|

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 |
|------------------------------|-------------|

DOWNLOAD DATA

Documents and certificates

| | |
|--|-------------------------------|
|  | User instruction |
|  | Declarations Of Conformity CE |
|  | Certificates |

Photometric and lighting design files

| | |
|---|---------------------|
|  | IES file (IES) |
|  | LDT file (Eulumdat) |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross 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 |

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.