



Highlights

- Ready-to-connect ultra-slim LED-profile for professional lighting applications
- Lumen output 800LM per meter
- High colour rendering index CRI > 90
- Excellent white colour consistency MacAdam SDCM ≤3
- Homogenous lighting – no visible light points
- Perfect for kitchen cabinets or furniture integration
- High quality adhesive 3M-tape on backside for easy mounting on common surfaces
- Optional mounting clips included
- 2-meter white connection cable pre-mounted
- Long lifetime: L70F10 = 50.000h ①

Applications

- Cabinet lighting
- Shelf Lighting
- Accent Lighting
- Ambient Lighting

Electrical Properties

- Supplied with constant voltage 24 VDC
- Stable photometrics in combination with wide input voltage range 22-26 V
- Optimized for high resolution dimming 0.1-100% using welight and Tridonic digital drivers controlled via switchDIM, DSI, DALI, DMX or KNX.

Standards

→ page 2

Dimensions



Accessories

- Large selection of drivers and dimmers and control systems to fit every need and application

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Mounting Instructions

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Type	Article Code	Supply Voltage (VDC) ③	Colour (K)	CRI	Photometric Code ④	Lum. flux (lm) ②	Current (mA) ②	Power (W) ②	LED quantity	LxWxH (mm)	Operating temp (°C)	Energy Class
LEDline SLIM 927 500LM 8W 24V 580mm	W2200-927-580	24	2 700	>90	927 / 349	500	327	7,84	174	580 x 8 x 6 ⑤	-20 °C +35 °C	A+
LEDline SLIM 927 1000LM 16W 24V 1180mm	W2200-927-1180	24	2 700	>90	927 / 349	1 000	677	16,24	354	1180 x 8 x 6 ⑥	-20 °C +35 °C	A+

① All values for ta = 25 °C / tc = 65 °C

② Tolerance range for electrical and optical data ±10%

③ Exceeding the maximum operating voltage leads to an overload of the LED. This may result in a significant reduction in lifetime or even destruction of the product. Tolerance range for the supply voltage 24V: ±2V

④ According to IEC 62717

⑤ Length tolerance ±3mm. Height including adhesive tape 7mm. Height including mounting clips 10mm.

⑥ Length tolerance ±5mm. Height including adhesive tape 7mm. Height including mounting clips 10mm.

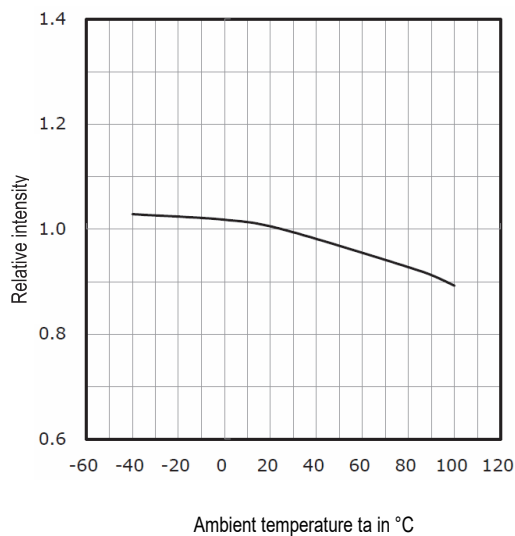
Standards

- IEC 62031
- IEC 62471
- IEC 62717
- IEC 6100-4-2
- IEC 62717

Thermal behaviour

Storage Temperature	-30/+60 °C
Operating Temperature	-20/+35/+50 °C
Tc max	75 °C

Relative luminous flux vs. ambient temperature



Life time, lumen maintenance and failure fraction

The light output of the LEDs decreases over the life-time, this is characterized with the L value. L70 means that the LED luminaire will give 70 % of its initial luminous flux. This value is always related to the number of operation hours and therefore defines the lifetime of the LEDs.

The L value is a statistical value and the lumen maintenance may vary over the delivered LED luminaires. The B value defines the amount of LEDs which are below the specific L value, e.g. L70B10 means 10 % of the LEDs are below 70 % of the initial luminous flux, respectively 90 % will be above 70 % of the initial value.

In addition the percentage of failed LEDs (fatal failure) is characterized by the C value. The F value is the combination of the B and C value. That means for F degradation and complete failures are considered, e.g. L70F10 means 10 % of the LEDs on the tape may fail or be below 70 % of the initial luminous flux.

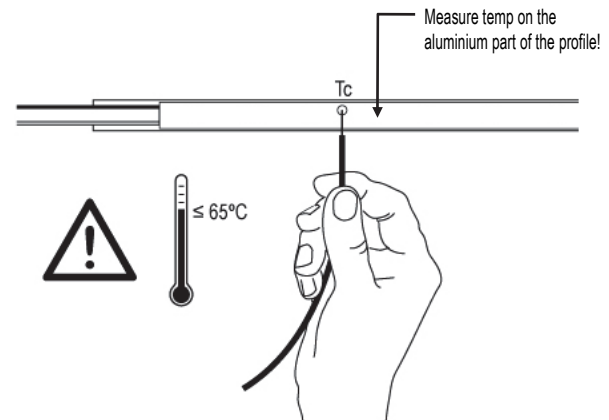
Type	Reference Temperature (Tc)	L90F10	L70F10
LEDline SLIM	65°C	20 000 h	>50 000 h
	75°C	10 000 h	32 000 h

Thermal design and heat sink

The rated life of LED-products depends to a large extent on the temperature. Welight's excellent thermal design for the LED products provides the lowest thermal resistance and therefore allowing new compact designs without sacrificing quality, safety and life time. However, if the permissible temperature limits are exceeded, the life of the LED will be greatly reduced or the LED may be destroyed.

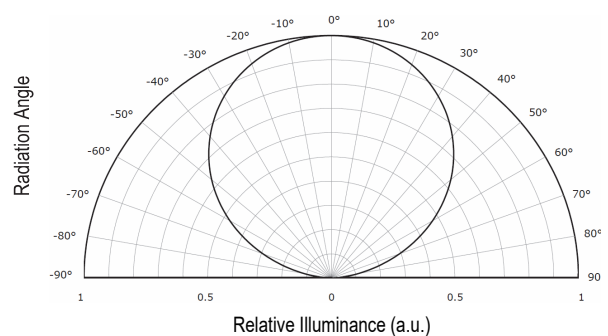
The temperature at tc reference point is crucial for the light output and life time of a LED luminaire. For the LEDline Slim a tc temperature of 65 °C is recommended to achieve an optimum between heat sink requirements, light output and life time.

NOTE! The temperature of the aluminium part of the LED-profile (tc) may under no circumstances be higher than 65 °C if the expected lifetime is to be met. Compliance with the maximum permissible reference temperature at the tc point must be checked under operating conditions in a thermally stable state. The maximum value must be determined under worst-case conditions for the relevant application.



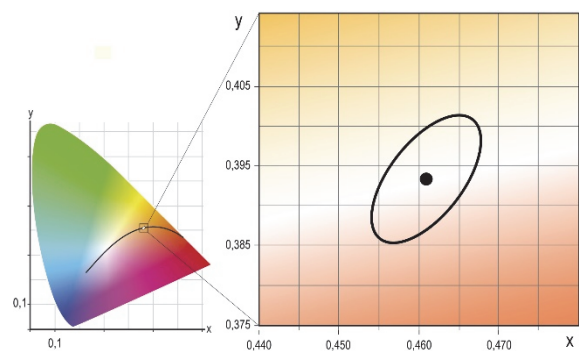
Light Distribution

Radiance Angle = 120°



Chromaticity coordinates and tolerances (according to CIE 1931)

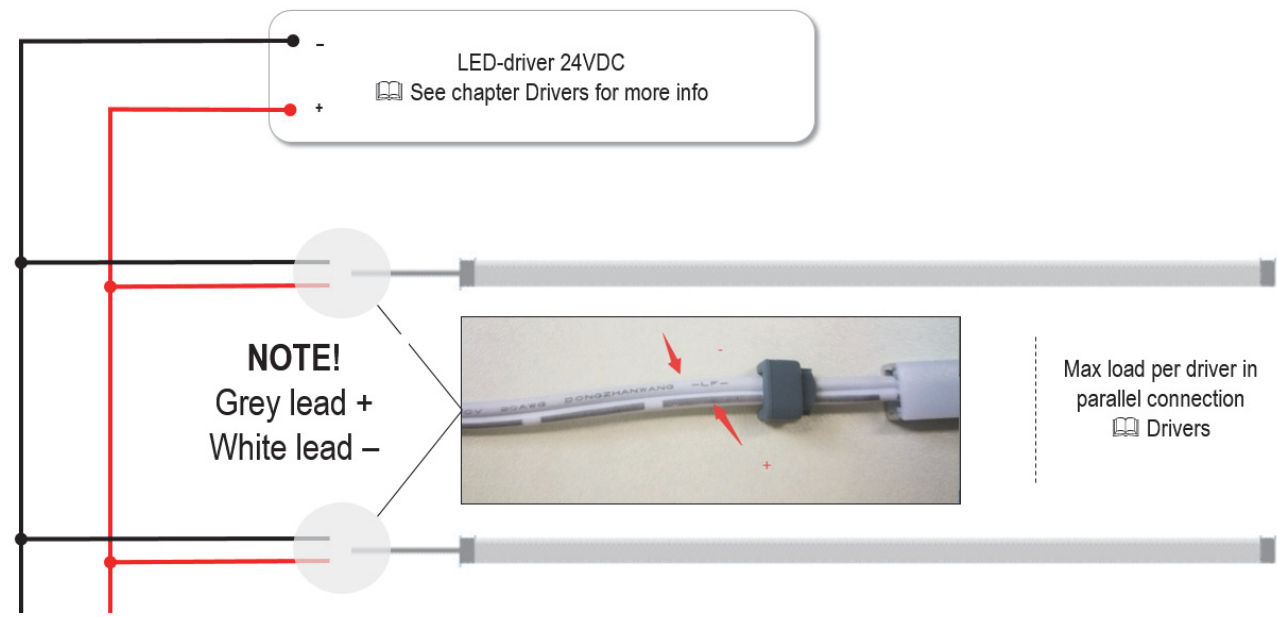
White Tone	CCT	Photometric Code
Incandescent	2700 K	927 / 349
2700 K	x0	y0
Centre	0,4609	0,3932



MacAdam ellipse: 3 SDCM

The specified colour coordinates are measured by a current impulse with nominal values of module after a settling time of 100 msec. The ambient temperature of the measurement is $t_a = 25$ °C. The measurement tolerance of the colour coordinates is ± 0.01 .

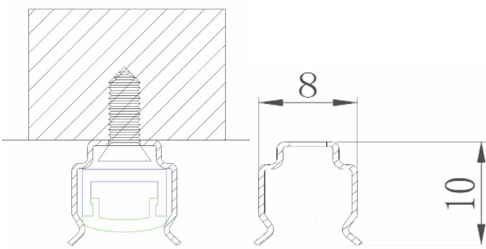
WIRING



ACCESSORIES

Mounting Clips (2 pcs included)

LEDline SLIM is delivered with pre-mounted 3M adhesive tape for quick and easy mounting. Each package also contains two clips with screws that can be used if deemed necessary. The total height and width of the profile when used together with the mounting clips is 10x8mm.



Digital Dimmable Drivers

We offer a range of suitable LED-drivers especially designed LEDline SLIM.



Control Signal	Max Power	Art. Code	Driver Type	LEDline SLIM (max length)
DALI one4all ①	35W	28001920	LED LCA 35W 24V one4all SC PRE SP	2.5 m
DALI one4all ①	60W	28001921	LED LCA 60W 24V one4all SC PRE SP	4.2 m
DALI	100W	W7101	LEDdriver LCV 100W 24V 1-4CH DALI SR	7.1 m
KNX	100W	W7102	LEDdriver LCV 100W 24V 1-4CH KNX SR	7.1 m
DMX	100W	W7103	LEDdriver LCV 100W 24V 1-4CH DMX SR	7.1 m

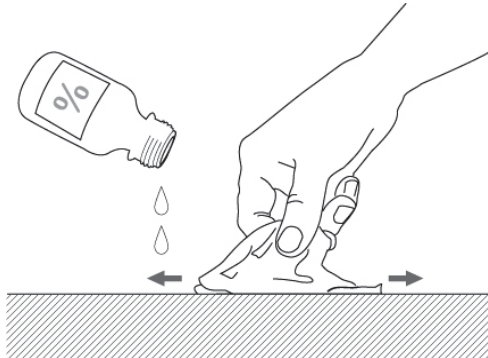
① one4all supports ready2mains, corridorFUNCTION, switchDIM (dimming via phase impulse), DSI and DALI in the same dimmer.

LEDline SLIM

INSTRUKTIONER
INSTRUCTIONS
ANLEITUNG
ISTRUZIONI
INSTRUCCIONES

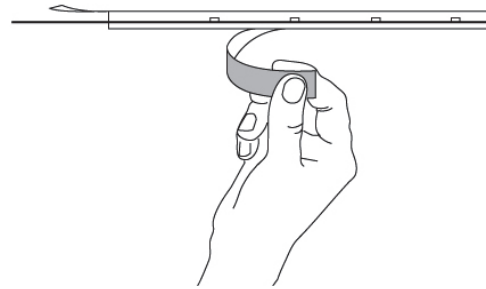


1.



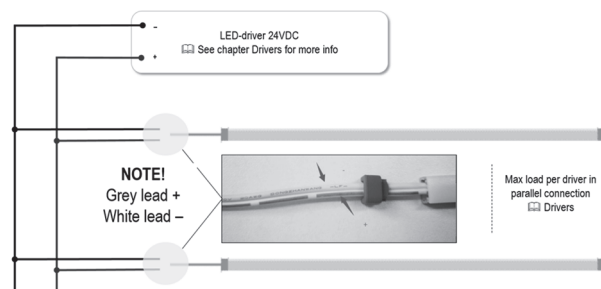
The fixing surface must be properly cleaned to remove grease, dirt and silicon before application, e.g. using Isopropyl alcohol.

2.



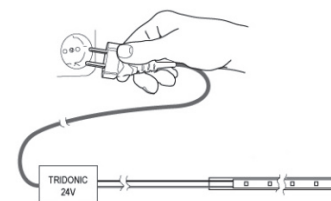
Remove the adhesive tape from the backside of the profile and fix the LEDline on the cleaned fixing surface. After assembly always check that the entire length of the profile has attached properly to the surface and that there are no air pockets underneath the profile.

3.



Each LEDline is delivered with white connection cable L=2m. Please take care about the polarity Grey + | White -. When connecting several profiles in parallel please refer to the datasheet for the allowed total length connected to one driver.

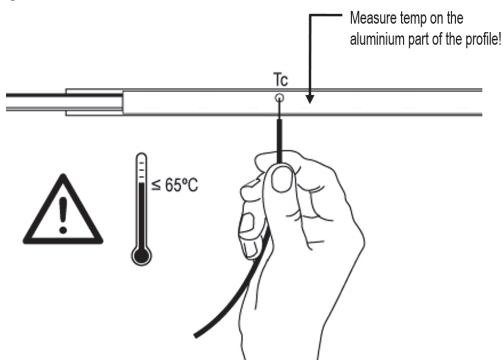
4.



To drive the LEDline safely, it is necessary to use an electronically stabilized power supply with protection against short circuits, overload and overheating. Always use our approved drivers to power the LEDline – refer to Driver section in the datasheet.

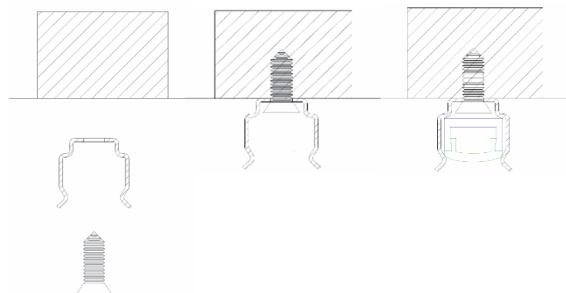
If the wrong type of driver is used the product warranty is void.

5.



The temperature on the aluminium part of the LED-profile (tc) may under no circumstances be higher than 65 °C if the expected lifetime is to be met.

6. (OPTIONAL)



Locate the 2 included mounting clips and screws inside the package. Attached the clips to the mounting surface using the screws. Push the LEDline in place inside the clips.