



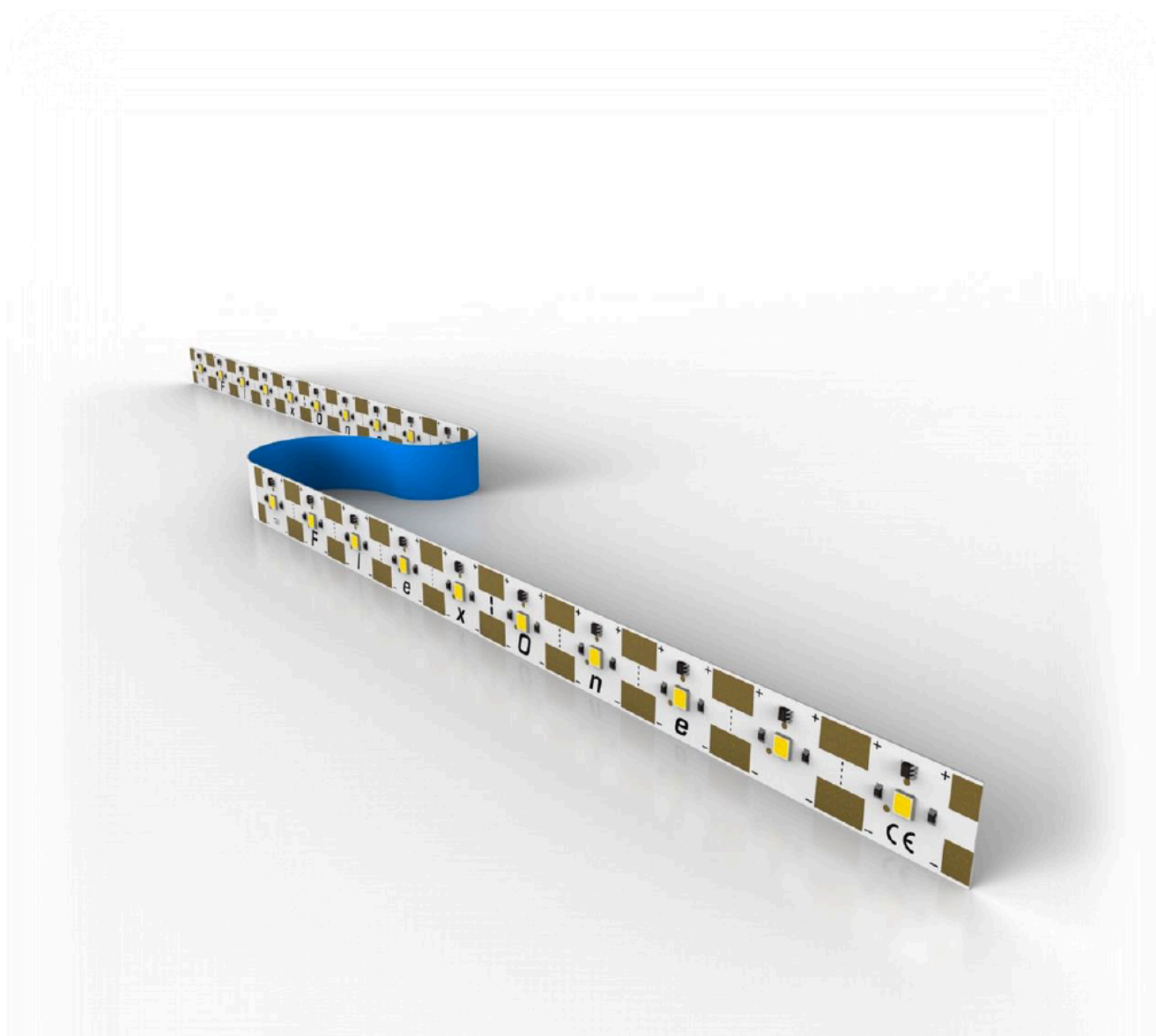
Lumistrips

# DATASHEET

FLEXONE3080 SAMSUNG LED STRIP WARM WHITE 2700K  
11825LM 12V 50 LEDS/M 5M REEL

**SKU: 31650**

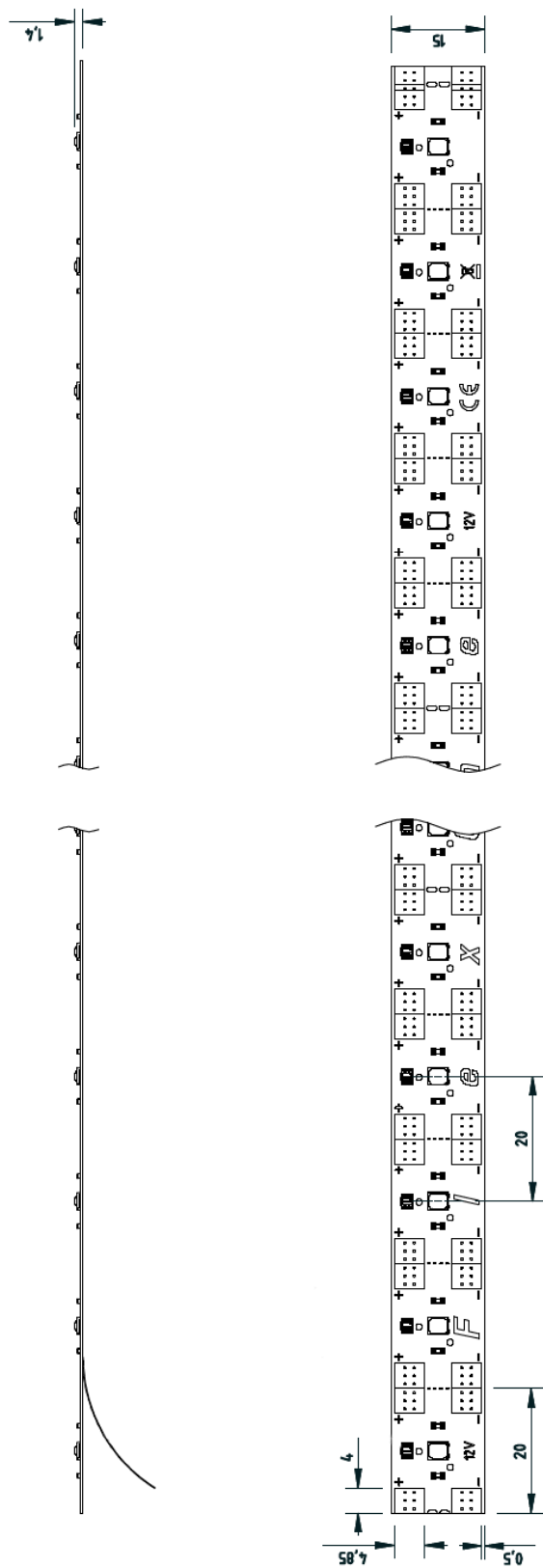
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# FLEXONE3080 SAMSUNG LED STRIP WARM WHITE 2700K 11825LM 12V 50 LEDS/M 5M REEL

Article number (SKU)		31650	
Product name	FlexOne3080 Samsung LED Strip warm white 2700K 11825lm 12V 50 LEDs/m 5m reel		
Classification	Professional		
Model identifier (equivalent models)	FlexOne250		
Photometric data (at TJ = 65°C, ± 10%)			
Light color	Warm white		
Binning	3-Step MacAdam		
Color temperature (K)	2700 K		
Dominant wavelength (nm)	-		
Luminous flux (lm)	11825 lm	2365 lm/m	
Radiant power (mW)	-		
CRI (Ra)	>80		
Efficiency (lm/W)	78 lm/W		
Beam angle FWHP	120°		
Lifetime L80B10C1 (h)	>60.000 h		
Photometric code	827		
Electrical data (at TJ = 65°C, ± 10%) (reference settings)			
Operating mode	Constant voltage		
Voltage (V)	12 V		
Current (mA)	12500 mA		
Power (W)	150 W	30 W/m	
Standby power consumption (W)	0 W		
Dimmable	Yes		
Dimensions / Mechanical data		Metric units	Imperial units
Length	5000 mm		196.50"
Width	15 mm		0.59"
Height	1.4 mm		0.055"
Number of LEDs (pcs)	250 pcs		
Weight (g)	150 g		
Heat dissipation	Yes		
Temperatures			
Operating temperature at Tc	-40°C to +85°C		
Ambient temperature	-40°C to +50°C		
Storage temperature	-40°C to +100°C		
Approvals / Certifications			
CE / RoHS / Reach	Yes		
EN 62471 Risk group	RG1		
Energy efficiency class	E		
Mains voltage luminous efficacy (lm/W)	80 lm/W		
Version			
Date	04. Aug.2022		

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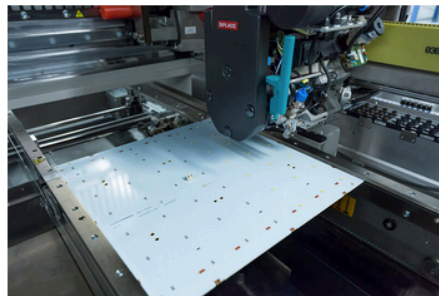


## WARRANTY INFO



This LED Strip has 5 years commercial warranty. Please refer to <https://www.lumistrips.com/lumistrips-en-warranty> for warranty terms.

## MANUFACTURING INFO



This LED strip is **made in Germany**, at a flex production line that uses the innovative manufacturing technology of plasma direct metallization, to turn flexible substrates into electrical conductive and solderable circuit boards, even those that before have not been suitable for an assembly with electronic components.



**LED strip made in reel-to-reel manufacturing**, a production method that offers many advantages, from delivering custom designs without the error of soldering to the use of new base materials that make new designs possible, with easier handling, installation and transportation.

## Reel-to-reel production

Multiple advantages. New opportunities.



Endless products possible without error-prone soldering



New base materials such as PET, polyimide, paper etc.



Fast and automated processing on large production lines



Less residual material due to the processing of large roll lengths



Easier handling and installation thanks to self-adhesive backside



Savings potentials in logistics and warehousing



Design advantages in comparison to rigid boards



Higher functional density: dimensions and weight of components lower

## Our professional LED Strips and Modules use LEDs from market leaders

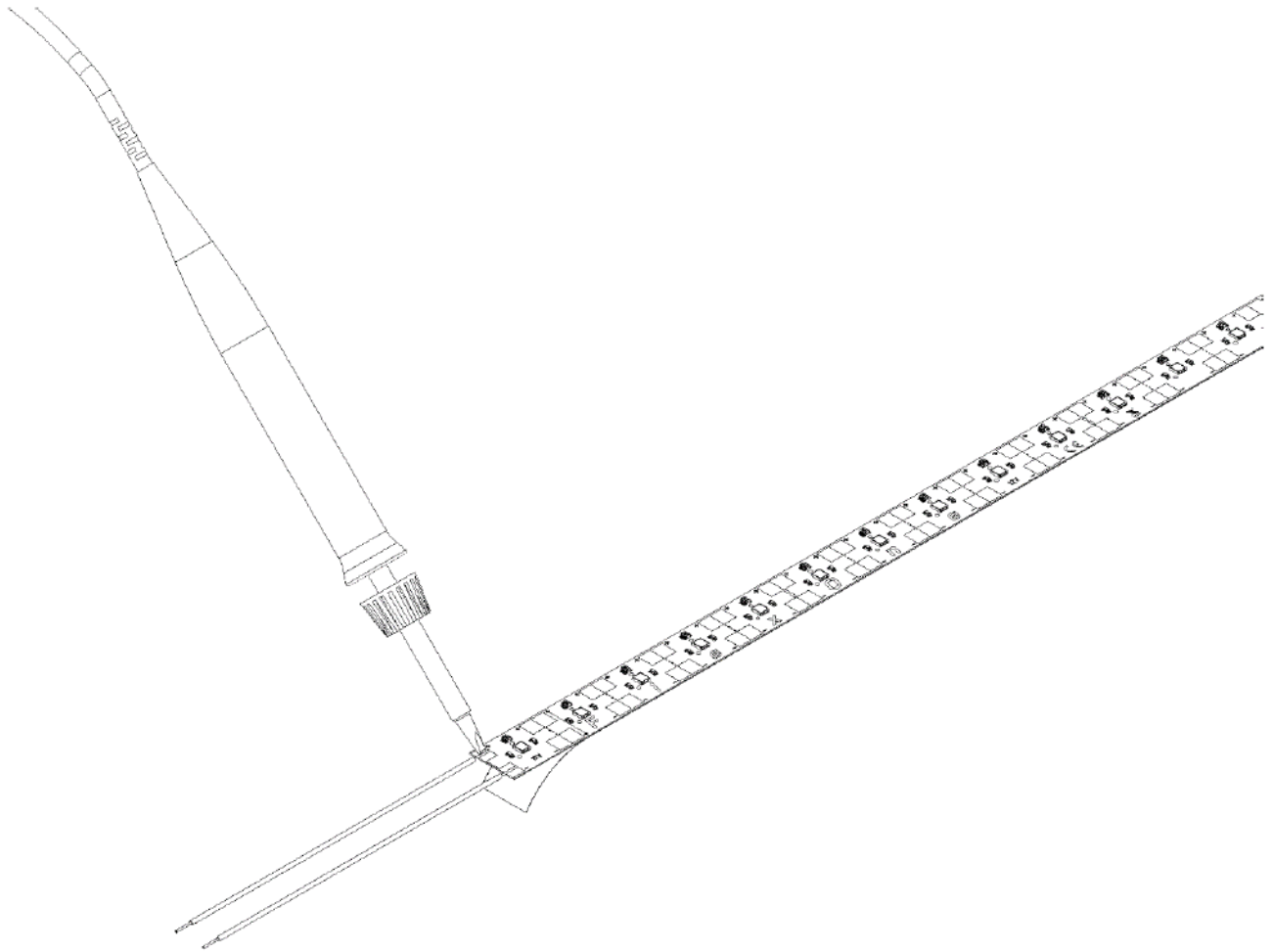
We develop and produce our LED strips at a state of the art facility in Germany, with the highest quality standards and by using only LEDs from market leaders such as Nichia, Samsung or Toshiba.

- **Nichia** is the LED market leader, with over 25% market share and decades of experience. Nichia researchers invented the blue and white LED production technology, also receiving the Nobel Prize for this achievement. Nichia LEDs are the **most efficient** (200 lm / w efficacy), durable (> 100,000 hours) and are also available with unique technologies such as **Optisolis**, CRI98+ natural light spectrum and **Rsp0a**, special white light for horticulture.
- **Samsung** is in the top 10 of global LED manufacturers and a well-known brand, renowned for the high performance of its products combined with the competitive price
- **Toshiba** is a Japanese conglomerate with a history of more than a century, now specialized in semiconductors, electronics and hardware, with nearly 20,000 employees and an annual turnover of 40 billion USD. Toshiba has built the TRI-R technology and built the LED chips used in **SunLike CRI97+ LEDs** produced by Seoul Semiconductor in South Korea. With the new **SunLike™ TRI-R™** technology from Toshiba-SSC (Seoul Semiconductor) and our strips and modules you can always enjoy a natural light source with the light spectrum very close to the sun.
- **Seoul Semiconductor** is in the top 10 of global LED manufacturers and renowned for innovation, durability and competitive price

## Our strips have high quality components and professional support:

- We use LEDs from top brands and have superior designs
- We offer **professional support** for lighting projects
- The PCBs use high quality materials for best resistance, current flow and heat transfer
- Performance values in this datasheet match those in real world applications
- Function perfectly at high temperatures that would destroy many other strips

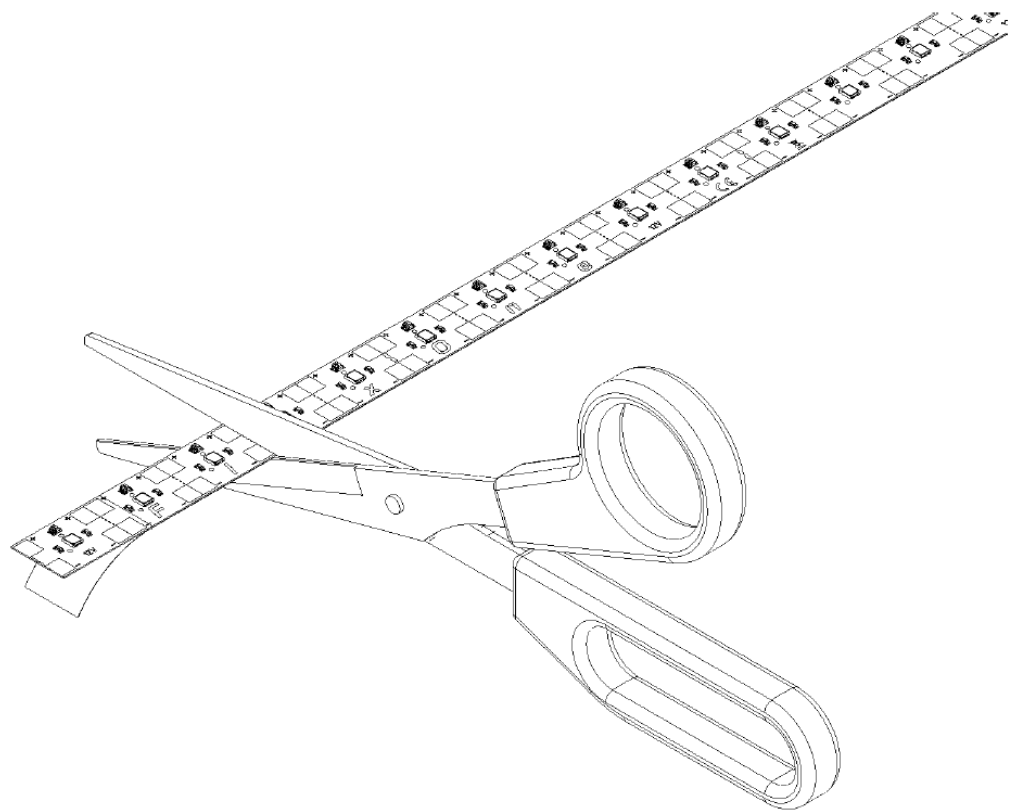
## CONNECTION OF LED STRIP



The Professional LED Strips are connected via a lead connection to the connection pads provided for this purpose.

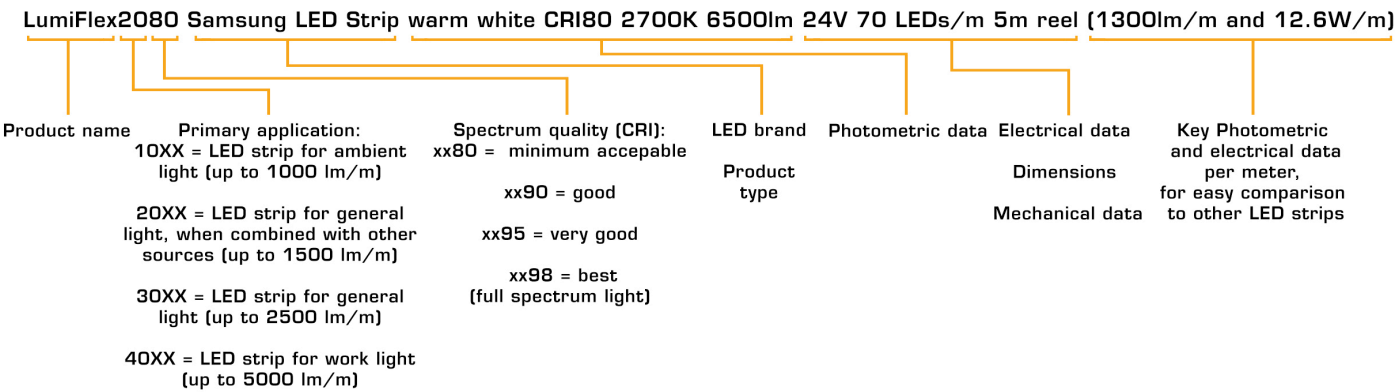


CUTTING INFO



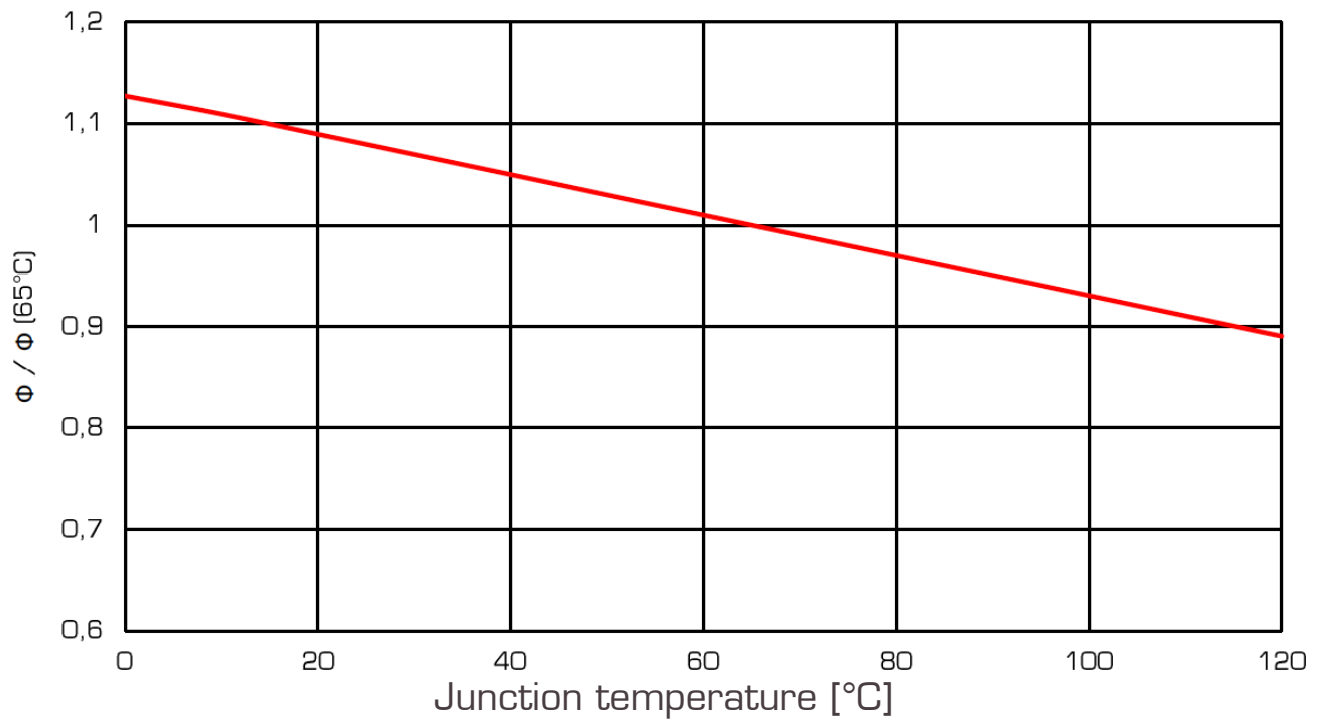
The LED strip can be separated or shortened every 20 mm. On the back of the LED strip is a double-sided heat-conducting adhesive tape, which allows installation of the LED strip. Professional LED strips can be cut with scissors.

LED STRIP PRODUCT NAME EXPLAINED

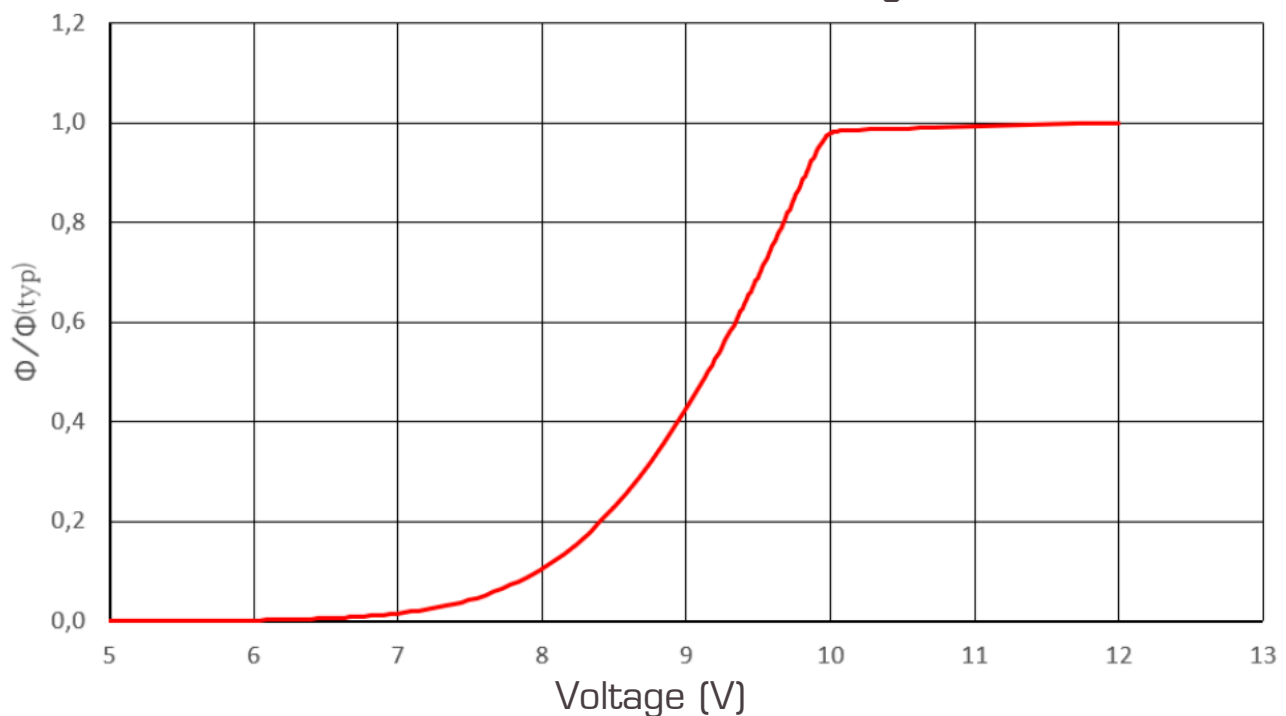




### LUMINOUS FLUX vs. TEMPERATURE



### LUMINOUS FLUX vs. Voltage



Due to the special conditions in the production process of LEDs, the specified values are statistical averages. The individual LED may deviate from them.

## FLEXONE3080 SAMSUNG LED STRIP WARM WHITE 2700K 11825LM 12V 50 LEDS/M 5M REEL

The LED modules and all their components must not be mechanically stressed.

Avoid undue claw action, e.g. by screwing or excessive bending.

The LED modules must not come into contact with aggressive chemical substances, either in operation or in storage.

The installation of the module (with the operating device) must be carried out in compliance with all applicable electrical and safety standards.

Pay attention to standard ESD precautions when installing the modules.

- The components on the LED modules must not be subjected to mechanical stress.
- The conductive paths on the boards must not be damaged or interrupted by the installation.
- Store and operate the LED modules only at a final humidity of 10% to 60%.

Our LED modules are not protected against overload, overtemperature and short-circuit currents. To operate the modules safely and reliably, it is therefore necessary to use an electronically stabilized power supply unit in which these

in which these safety functions are already integrated. If other power supplies than the ones distributed by us are used, the following protective

the following protective measures must be ensured on the power supply side:

**MINIMUM REQUIREMENTS FOR POWER SUPPLIES:** Short circuit protection - Overload protection - Overtemperature protection

- The installation of LED modules may only be carried out in compliance with all applicable regulations and standards by an authorized electrician.

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**This LED strip can be purchased via the following websites:**

[www.ledrise.eu](http://www.ledrise.eu) / [www.lumistrips.com](http://www.lumistrips.com)

