



Lumistrips

# DATASHEET

LUMIFLEX2080 SAMSUNG LED STRIP COLD WHITE CRI80 6500K 7050LM 24V 70  
LEDS/M 5M REEL IP67

**SKU: 35089IP67**

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Article number (SKU)

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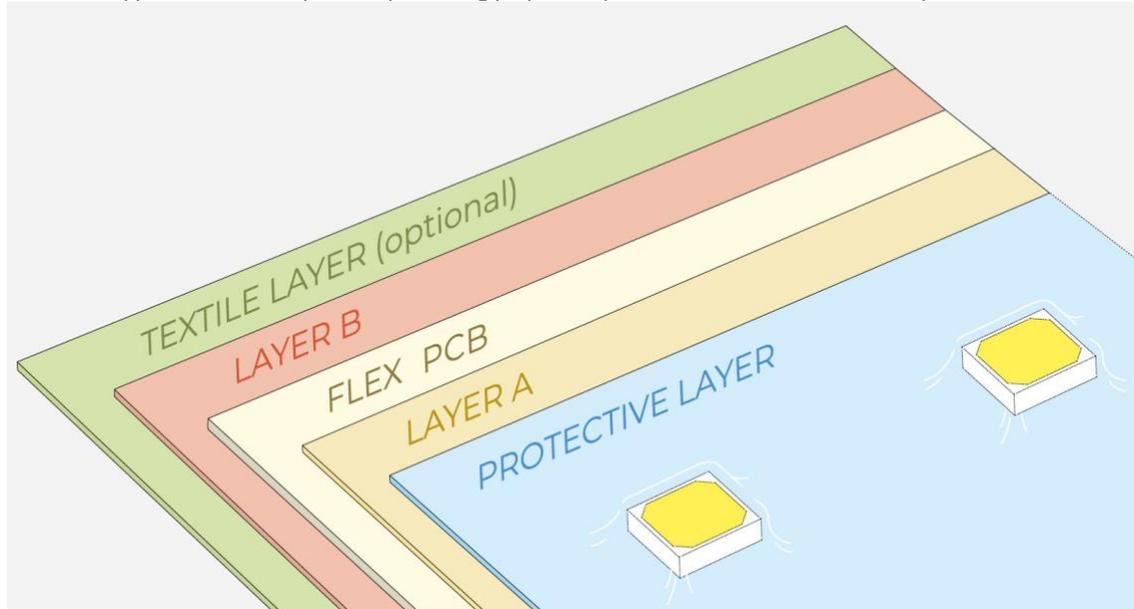
Product name	LumiFlex2080 Samsung LED Strip cold white CRI80 6500K 7050lm 24V 70 LEDs/m 5m reel IP67	
Classification	Professional	
Model identifier (equivalent models)	LumiFlex350 Pro	
<b>Photometric data (at TJ = 65°C, ± 10%)</b>		
Light color	Cold White	
Binning	ANSI	
Color temperature (K)	6500 K	
Dominant wavelength (nm)		
Luminous flux (lm)	7050 lm	1410 lm/m
Radiant power (mW)		
CRI (Ra)	>80	
Efficiency (lm/W)	113 lm/W	
Beam angle FWHP	120°	
Lifetime L80B10C1 (h)	>60000 h	
Photometric code	865/339	
<b>Electrical data (at TJ = 65°C, ± 10%) (reference settings)</b>		
Operating mode	Constant voltage	
Voltage (V)	24 V	
Current (mA)	2600 mA	
Power (W)	62.4 W	12.48 W/m
Standby power consumption (W)	0 W	
Dimmable	Yes	
<b>Dimensions / Mechanical data</b>		
	<b>Metric units</b>	<b>Imperial units</b>
Length	5000 mm	196.50"
Width	10 mm	0.40"
Height	1.3 mm	0.05"
Number of LEDs (pcs)	350 pcs	
Weight (g)	-	
Heat dissipation	Yes	
<b>Temperatures</b>		
Operating temperature at Tc	-40 °C to +85 °C	
Ambient temperature	-40 °C to +50 °C	
Storage temperature	-40 °C to +100 °C	
<b>Approvals / Certifications</b>		
CE / RoHS / Reach	Yes	
EN 62471 Risk group	RGO	
Energy efficiency class	E	
Mains voltage luminous efficacy (lm/W)	123 lm/W	
<b>Version</b>		
Date	22. November 2023	



## LumProtect® - Revolutionizing LED Lighting with Superior Waterproofing

In our cutting-edge facility located in Germany, LumProtect® is transforming the resilience of LED lighting. We developed a new and advanced lamination process about making our LED strips waterproof, achieving the impressive IP67 rating. This means complete dust resistance and the ability to withstand submersion in water up to 1 meter deep for as long as 30 minutes.

Our innovation lies in the application of multiple slim yet strong polymer layers to each side of the LED strip's flexible circuit board.



The combination of heat and pressure in our process ensures a flawless bond, encapsulating the components thoroughly while preventing any air entrapment. As a result, LumProtect® LED strips stand out in robustness and adaptability, surpassing our competitors.

Key Benefits of LumProtect®:

1. **Optimized Light Transmission:** Our specially designed polymer layers enhance light penetration, resulting in a brighter, crisper light emission.
2. **Slim and Sturdy:** Though exceptionally slender, the LED strips are engineered to endure bending and twisting, making them suitable for diverse installation needs.
3. **Dependable Reliability:** Thanks to their high dielectric strength, the LumProtect LED strips offer unmatched safety and dependability.
4. **Long-Lasting True Colors:** Enjoy consistent color without fading or alteration over time; the LEDs in our waterproof strips retain their original brilliance.
5. **Unparalleled Flexibility:** Designed to fit into any space, these strips maintain their waterproof integrity in various configurations.
6. **Robust Endurance:** Our lamination technology acts as a shield for the LED strips. It protects against the elements - intense sunlight, heavy rainfall, and strong winds - ideal for outdoor environments. They also resist a variety of chemicals, gases, and dust. Additionally, their durability extends to resistance against accidental impacts and drops.



Protected against various chemicals



Protected against physical stress and weather influences



Protected against humidity (IP67 possible)



Protected against gases, dust and other particles



#### WARRANTY INFO

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This LED Strip has 5 years commercial warranty.

Please refer to <https://www.lumistrrips.com/lumistrrips-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.

The LED strip is made IP67 waterproof at the same facility, with LumProtect.



**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.

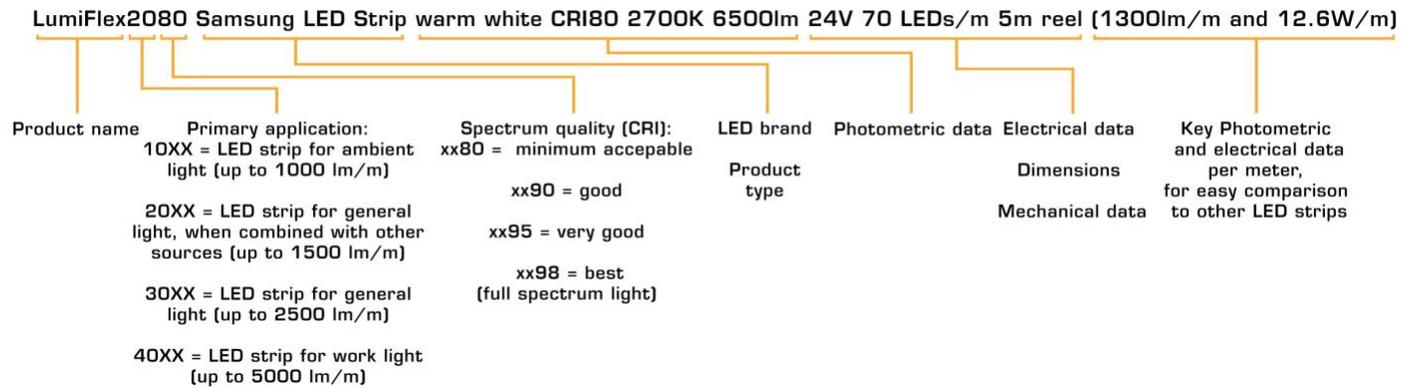
# LUMIFLEX2080 SAMSUNG LED STRIP COLD WHITE CRI80 6500K 7050LM 24V 70 LEDS/M 5M IP67

- **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 **RspDa**, 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

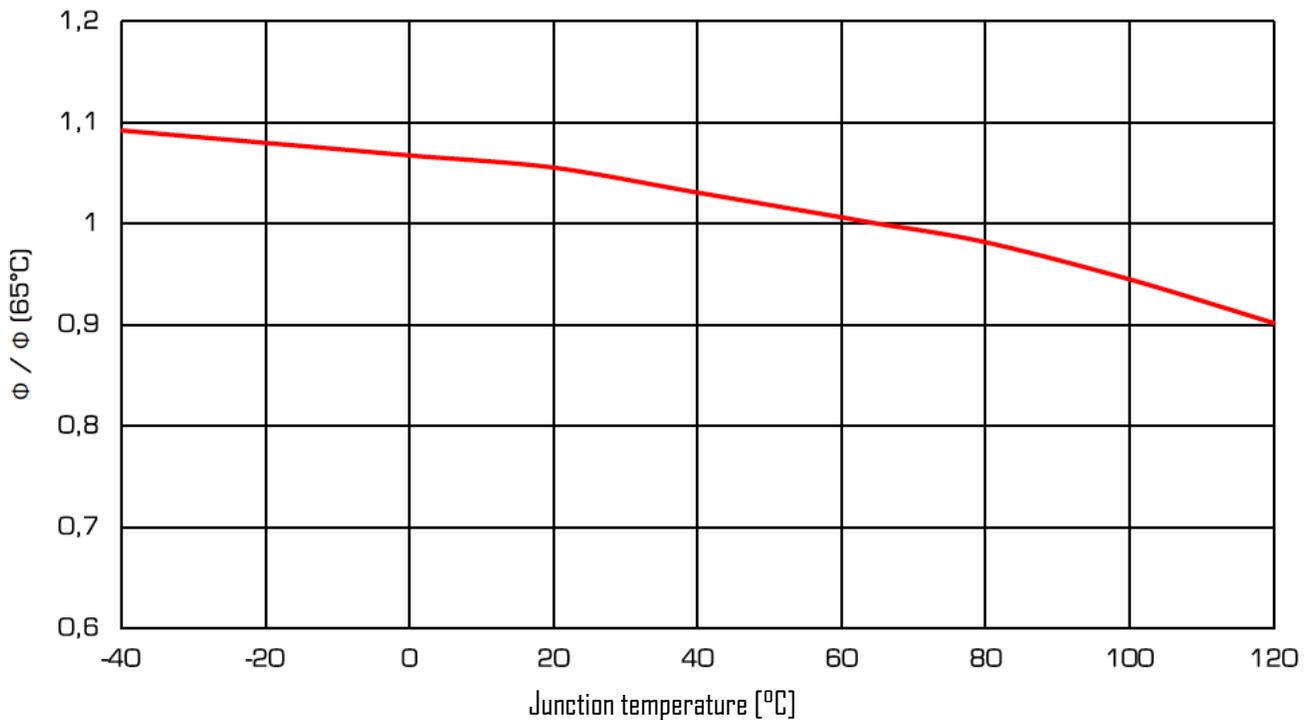
## Our strips have high quality components and professional support:

- 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

## LED STRIP PRODUCT NAME EXPLAINED



**LUMINOUS FLUX vs. TEMPERATURE**



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

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:**

LUMIFLEX2080 SAMSUNG LED STRIP COLD WHITE CRI80 6500K 7050LM 24V 70 LEDS/M 5M IP67

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



ISO 9001 quality management system.



OHSAS 18000 health and safety management system.



ISO 14001 Environment Management System.