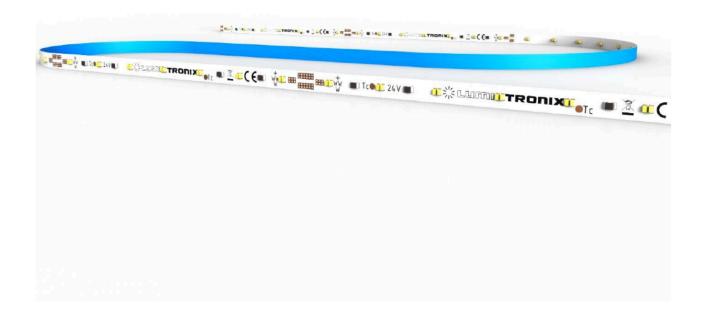


DATASHEET

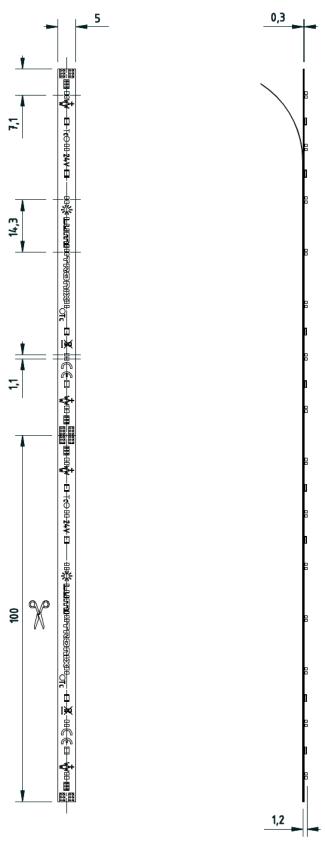
SLIMFLEXTW-2090 NICHIA LED STRIP TUNABLE WHITE 2700-6500K 2140LM 24V 140 LEDS/M 2M REEL

SKU: 56024



Article number (SKU)	56024	
Product name	SlimFlexTW-2090 Nichia LED Strip Tunable	
	white 2700-6500K 2140lm 24V 140	
Classification	LEDs/m 2m reel Professional	
Model identifier (equivalent models)	SlimFlex	
·	Jiii lex	
Photometric data (at TJ = 65°C, ± 10%)	Tunable white	
Light color	3-Step MacAdam	
Binning	2700 – 6500 K	
Color temperature (K)	2700 - 6500 K	
Dominant wavelength (nm)	- 4070 04404	1005 4070 1 /
Luminous flux (Im)	1970 – 2140 lm	985 - 1070 lm/m
Radiant power (mW)	-	
CRI (Ra)	>80	
Efficiency (Im/W)	109 - 118 lm/W	
Beam angle FWHP	120°	
Lifetime L80B10C1 (h)	>60000 h	
Photometric code	827 - 865	
Electrical data (at TJ = 65°C, ± 10%) (reference settings)		
Operating mode	Constant voltage	
Voltage (V)	24 V	
Current (mA)	750 - 750 mA	
Power (W)	18 - 18 W	9 W/m
Standby power consumption (W)	0 W	
Dimmable	Yes	
Dimensions / Mechanical data	Metric units	Imperial units
Length	2000 mm	78.60"
Width	5 mm	0.197"
Height	1.2 mm	0.047"
Number of LEDs (pcs)	280 pcs	
Weight (g)	80 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	RGO	
Energy efficiency class	E	
Mains voltage luminous efficacy (lm/W)	118 lm/W	
Version		
Date	1. July 2022	
	,	







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 customs designs without the error of soldering to the use of new base materials that make new designs possible, with easier handling, installation and transportation.





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.

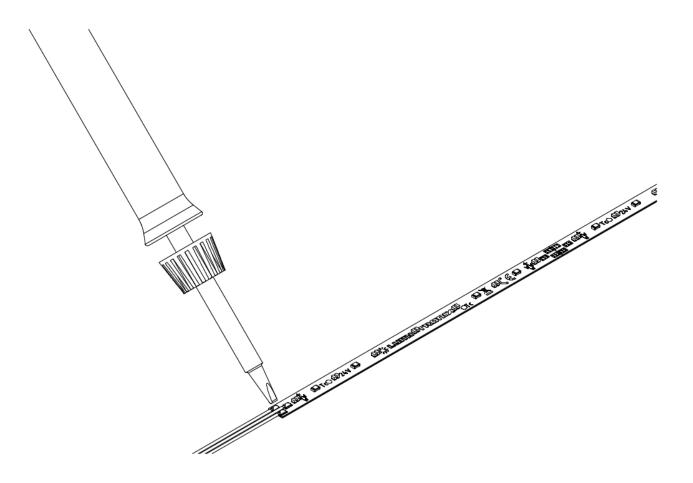
- Nichia is the LED market leader, with over 25% market share and decades of experience. Nichia researchers invented the blue and white LED production technology, also receiving the Nobel Prize for this achievement. Nichia LEDs are the most efficient (200 lm / w efficacy), durable (> 100,000 hours) and are also available with unique technologies such as Optisolis, CRI98+ natural light spectrum and RspOa, 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



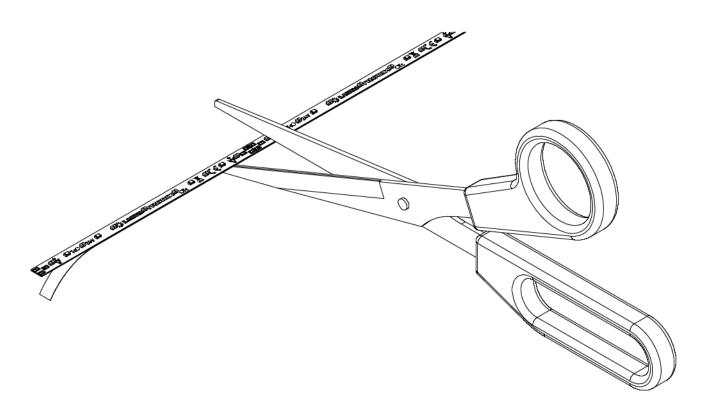
CONNECTION OF LED STRIP



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

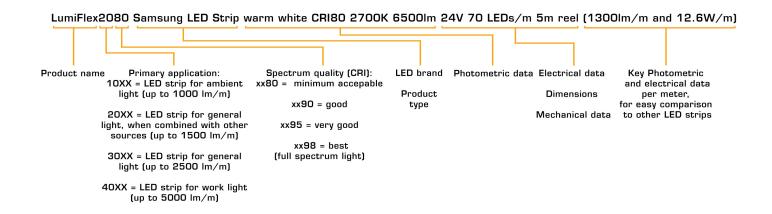


CUTTING INFO



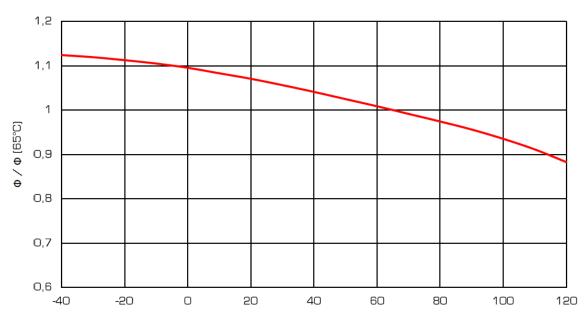
The LED strip can be separated or shortened every 100 mm. On the back of the LED strip is a double-sided heat-conducting adhesive tape, which allows installation of the LED strip. Professional LED strips can be cut with scissors.

LED STRIP PRODUCT NAME EXPLAINED



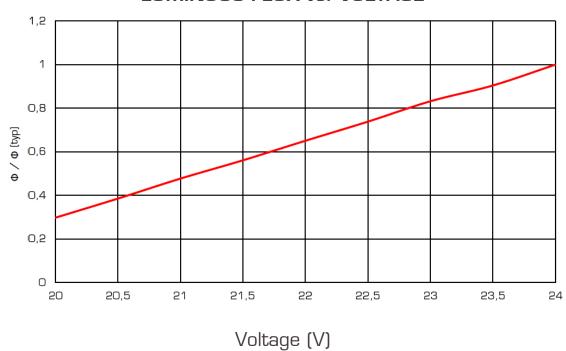


LUMINOUS FLUX vs. TEMPERATURE



Junction temperature [°C]

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.



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 / www.lumistrips.com















