

DATASHEET

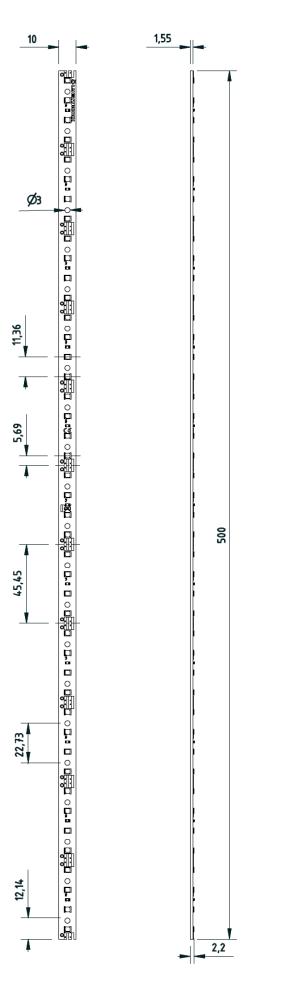
MULTIBAR3090 NICHIA LED STRIP WARM WHITE CRI90 3000K 850LM 24V 44 LEDS 50CM BAR

SKU: 50860



Article number (SKU)	50860		
Product name		Multibar3090 Nichia LED Strip warm white	
	CRI9O 3000K 850lm 24V 44 LEDs 50cm bar		
Classification	Professional		
Model identifier (equivalent models)	Multibar 44		
Photometric data (at TJ = 65°C, ± 10%)			
Light color	Warm White		
Binning	3-Step MacAdam		
Color temperature (K)	3000 K		
Dominant wavelength (nm)			
Luminous flux (Im)	850 lm	1700 lm/m	
Radiant power (mW)			
CRI (Ra)	>90		
Efficiency (Im/W)	131 lm/W		
Beam angle FWHP	120°		
Lifetime L80B10C1 (h)	>60000 h		
Photometric code	930/339		
Electrical data (at TJ = 65° C, ± 10%) (reference settings)			
Operating mode	Constant voltage		
Voltage (V)	24 V		
Current (mA)	270 mA		
Power (W)	6.47 W	13 W/m	
Standby power consumption (W)	0 W		
Dimmable	Yes		
Dimensions / Mechanical data	Metric units	Imperial units	
Length	500 mm	19.65"	
Width	10 mm	0.393"	
Height	22 mm	0.865"	
Number of LEDs (pcs)	44 pcs		
Weight (g)	168 g		
Heat dissipation	Yes, no cooling necessary		
Temperatures			
Operating temperature at Tc	-40 to +85 °C		
Ambient temperature	-40 to +50 °C		
Storage temperature	-40 to +100 °C		
Approvals / Certifications			
CE / RoHS / Reach	Yes		
EN 62471 Risk group	RGO		
Energy efficiency class	D		
Mains voltage luminous efficacy (lm/W)	143 lm/W		
Version			
Date	29. July 2022		
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WARRANTY INFO



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

MANUFACTURING INFO



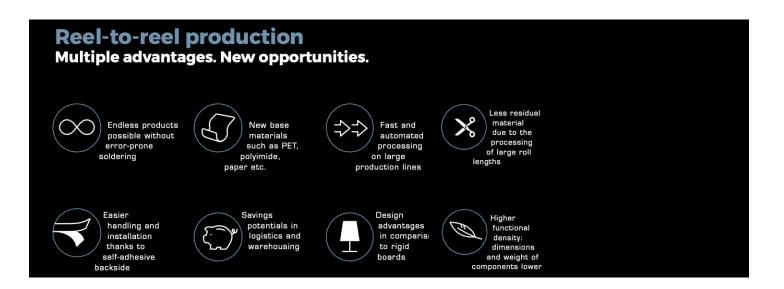


This LED strip is **made in Germany**, at a flex production line that uses the innovative manufacturing technology of plasma direct metallization, to turn flexible substrates into electrical conductive and solderable circuit boards, even those that before have not been suitable for an assembly with electronic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

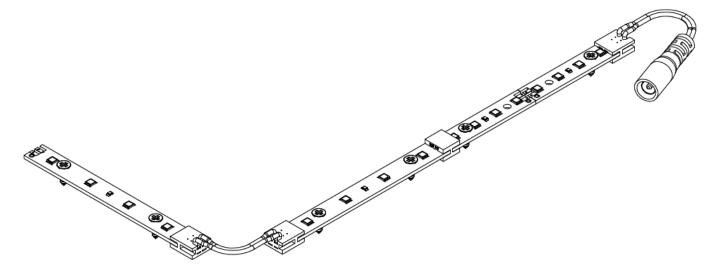
- Nichia is the LED market leader, with over 25% market share and decades of experience. Nichia researchers invented the blue and white LED production technology, also receiving the Nobel Prize for this achievement. Nichia LEDs are the most efficient (200 Im / w efficacy), durable (> 100,000 hours) and 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 Multibar easy to use plug-fit system allows the strips to be connected into long light strips with evenly spaced LEDs. No soldering is required.

The available connectors, sold separately, are:

- Direct connector (SKU 54003)
- Connectors with 6 / 100 / 500 cm cable (SKU 54004 / 54008 / 54009)
- Connectors with power supply adapter 30 / 100 / 500 cm (SKU 54005 / 54010 / 54011)
- Spacers set of 4 for installation on hard surfaces

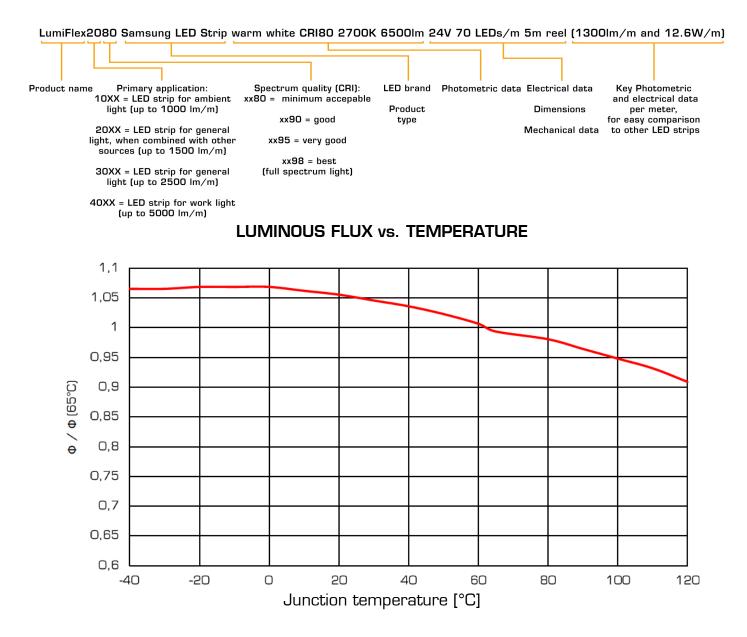
In this way, up to 9 meters of MultiBar LED bars can be connected to each other. Connectors are compatible with Alubar profiles SKU 54915 / 54910 / 38809



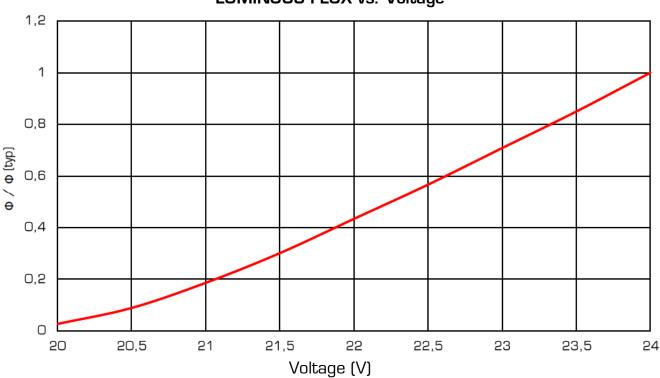
The LED strip can be separated or shortened every 45.45 mm. The connectors work on the separated parts also.



LED STRIP PRODUCT NAME EXPLAINED







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.



LUMINOUS FLUX vs. Voltage

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> This LED strip can be purchased via the following websites: www.ledrise.eu / www.lumistrips.com



