



Lumistrips

# DATASHEET

MULTIBAR3090 NICHIA LED STRIP WHITE CRI 80-99 1800-7800K 24V 44 LEDS  
50CM BAR

SKU: MULTIBAR\_3090

---

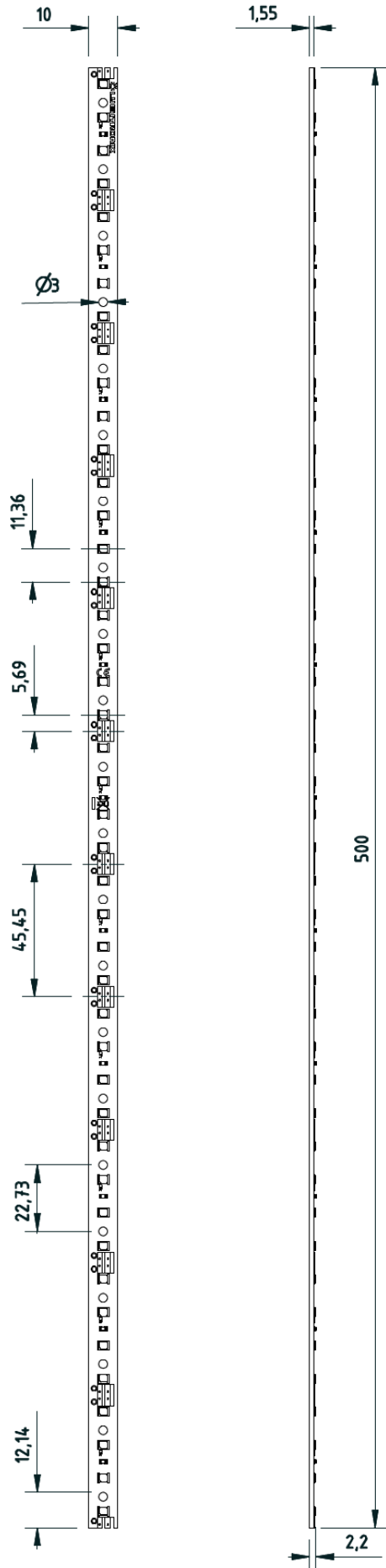


MULTIBAR3090 NICHIA LED STRIP WHITE CRI 80-99 1800-7800K 24V 44 LEDS 50CM BAR

Article number (SKU)		multibar_3090	
Product name	Multibar3090 Nichia LED Strip white CRI 80-99 1800-7800K 24V 44 LEDs 50cm		
Classification	Professional		
Model identifier (equivalent models)	Multibar 44		
Photometric data (at T <sub>J</sub> = 65°C, ± 10%)			
Light color	White		
Binning	3-Step MacAdam		
Color temperature (K)	1800 - 7800 K*		
Dominant wavelength (nm)			
Luminous flux (lm)	750-1500 lm*	3000 lm/m	
Radiant power (mW)	*		
CRI (Ra)	70-99+*		
Efficiency (lm/W)	*		
Beam angle FWHP	120°		
Lifetime L80B10C1 (h)	>60000 h		
Photometric code			
Electrical data (at T <sub>J</sub> = 65°C, ± 10%) (reference settings)			
Operating mode	Constant voltage		
Voltage (V)	24 V		
Current (mA)	*		
Power (W)	*	*	
Standby power consumption (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	*		
Temperatures			
Operating temperature at T <sub>c</sub>	-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	RG0		
Energy efficiency class	*		
Mains voltage luminous efficacy (lm/W)	*		
Version			
Date	20. May 2024		

\*Custom made LED strip, values depend on customer selection. Datasheet for the configured custom made variant will be provided after order confirmation.

MULTIBAR3090 NICHIA LED STRIP WHITE CRI 80-99 1800-7800K 24V 44 LEDS 50CM BAR

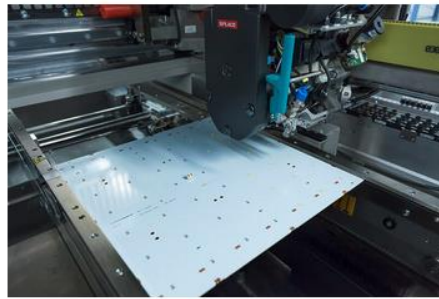


WARRANTY INFO



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 production line that uses the innovative manufacturing technology.

**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.

## MULTIBAR3090 NICHIA LED STRIP WHITE CRI 80-99 1800-7800K 24V 44 LEDS 50CM BAR

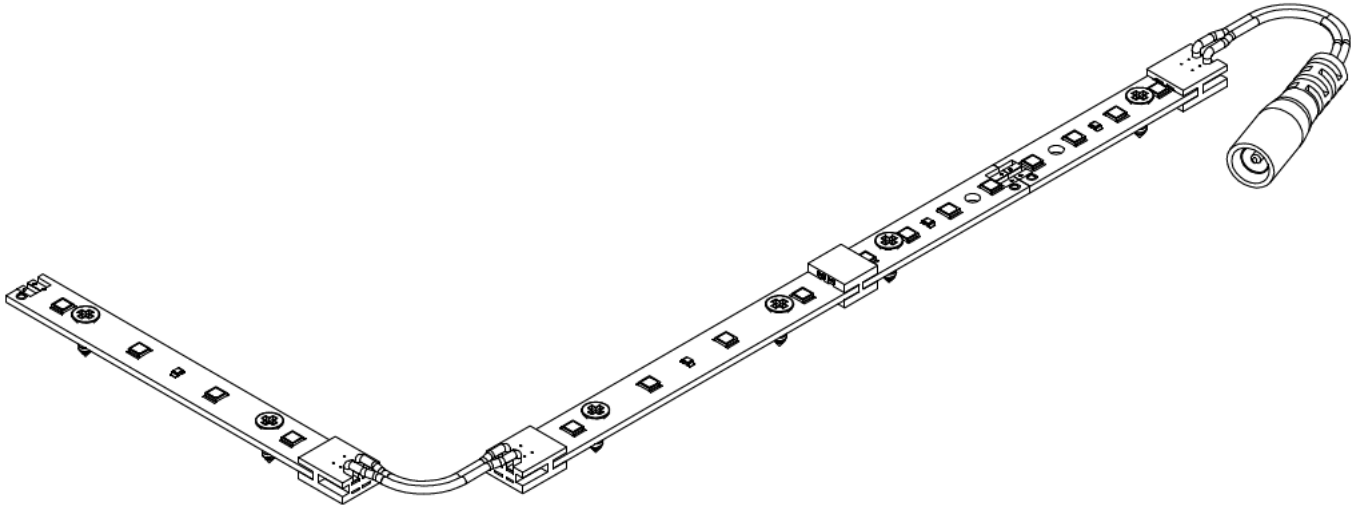
- **Nichia** is the LED market leader, with over 25% market share and decades of experience. Nichia researchers invented the blue and white LED production technology, also receiving the Nobel Prize for this achievement. Nichia LEDs are the **most efficient** (200 lm / w efficacy), durable (> 100,000 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

## CONNECTION OF LED STRIP

## MULTIBAR3090 NICHIA LED STRIP WHITE CRI 80-99 1800-7800K 24V 44 LEDS 50CM BAR



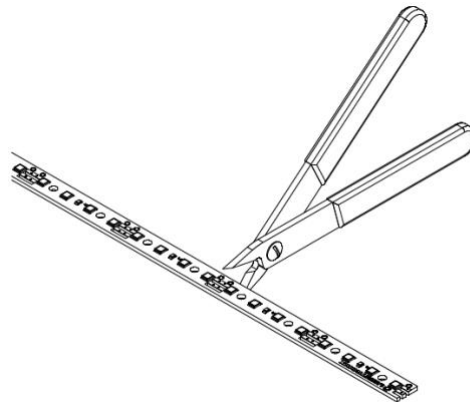
The Multibar easy to use plug-fit system allows the strips to be connected into long light strips with evenly spaced LEDs. No soldering is required.

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

### CUTTING INFO



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

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

## MULTIBAR3090 NICHIA LED STRIP WHITE CRI 80-99 1800-7800K 24V 44 LEDS 50CM BAR

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.

Distribution and reproduction of this document, utilization and communication of its contents are prohibited unless expressly permitted. Any infringement will result in compensation for damages. All rights reserved in the event of patent, utility model or design registration.

We reserve the right to make technical changes.

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

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

