

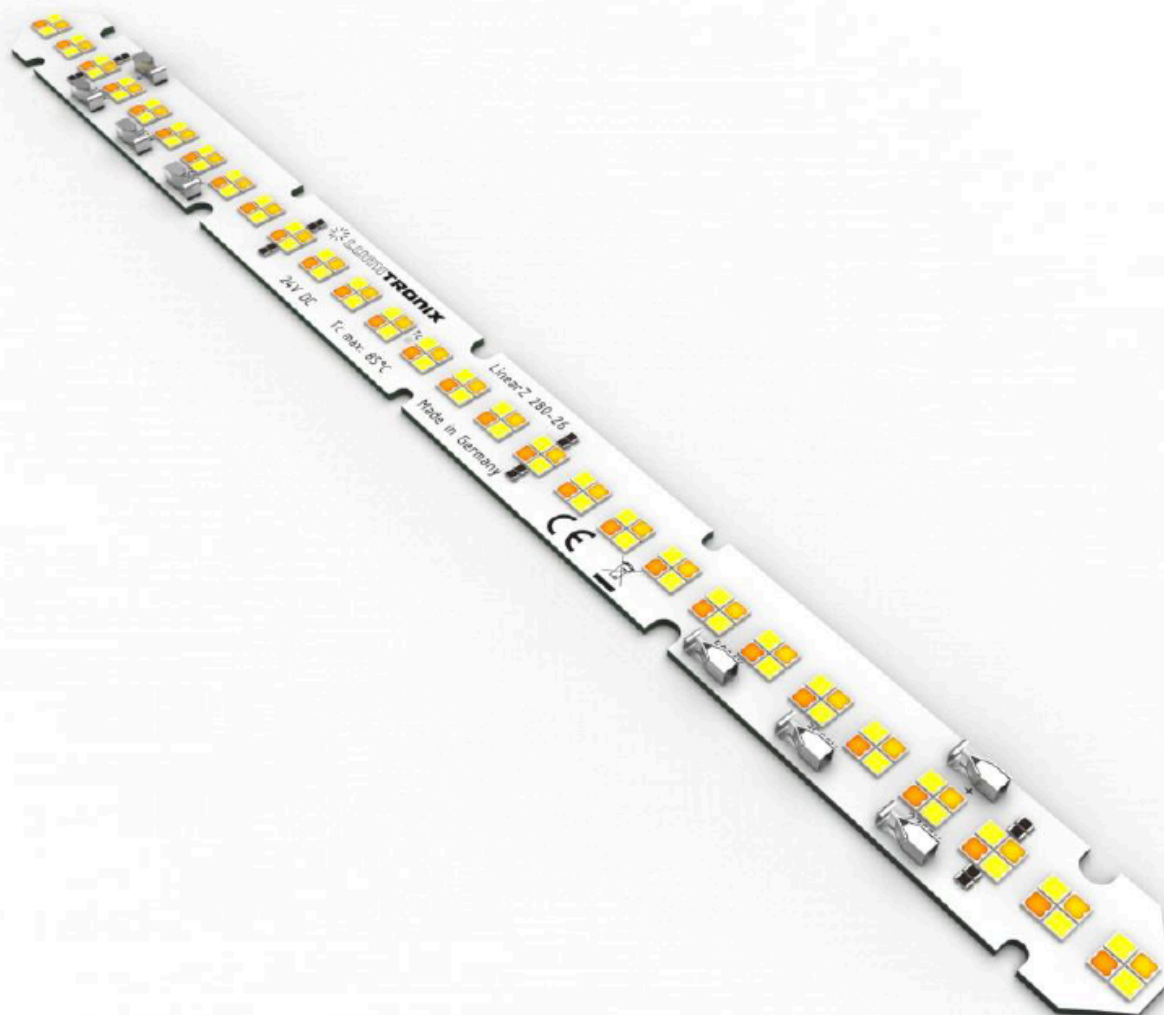


Lumistrips

DATASHEET

LUMIBARTW-112-4098+ TOSHIBA-SSC TW LED STRIP
ZHAGA SUNLIKE CRI98 WHITE 2700K+3500+5000K
990LM 24V 112 LEDS 28CM MODULE

SKU: 33958

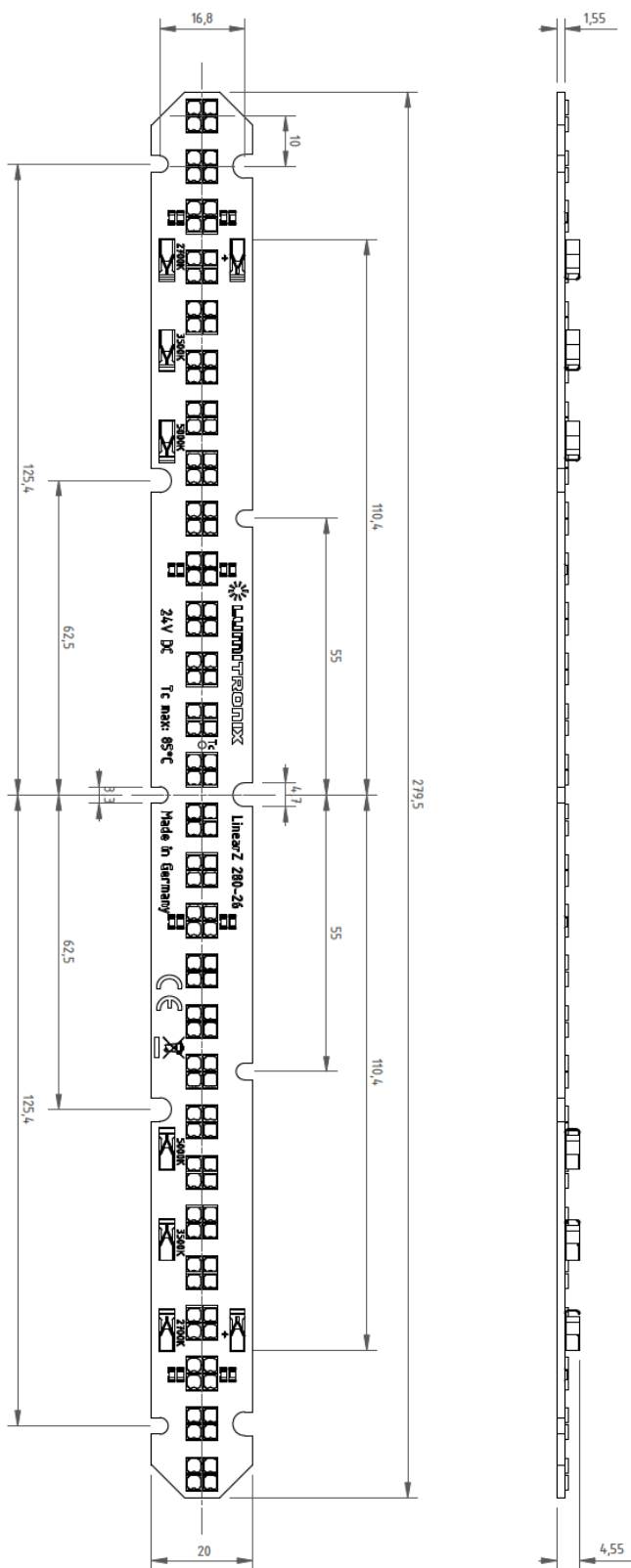


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2700K+3500+5000K 990LM 24V 112 LEDS 28CM MODULE

Article number (SKU)		33985	
Product name	LumiBarTW-112-4098+ Toshiba-SSC TW LED Strip Zhaga Sunlike CRI98 white 2700K+3500+5000K 990lm 24V 112 LEDs 28cm module		
Classification	Professional		
Model identifier (equivalent models)	LinearZ 112		
Photometric data (at TJ = 65°C ± 10%)			
Light color	Warm white Pure White Cold white		
Binning	3-Step MacAdam		
Color temperature (K)	2700 K 3500K 5000 K		
Dominant wavelength (nm)			
Luminous flux (lm)	490 lm 490 lm 990 lm	1750 - 3500 lm/m	
Radiant power (mW)			
CRI (Ra)	>98		
Efficiency (lm/W)	88 lm/W 88 lm/W		
Beam angle FWHP	120°		
Lifetime L80B50C1 (h)	>60000 h		
Photometric code	927/339 935/339 950/339		
Electrical data (at TJ = 65°C, ± 10%) (reference settings)			
Operating mode	Constant voltage		
Voltage (V)	24 V		
Current (mA)	232 mA 232 mA 464 mA		
Power (W)	5.6 W 5.6 W 11.2W	14 - 40 W/m	
Dimmable	Yes		
Dimensions / Mechanical data		Metric units	Imperial units
Length		279.5 mm	10.984"
Width		20 mm	0.786"
Height		4.55 mm	0.179"
Number of LEDs (pcs)	112 pcs		
Weight (g)	30 g		
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	RG0		
Energy efficiency class	F		
Mains voltage luminous efficacy (lm/W)	88 lm/W		
Version			
Date	25. Sept 2022		

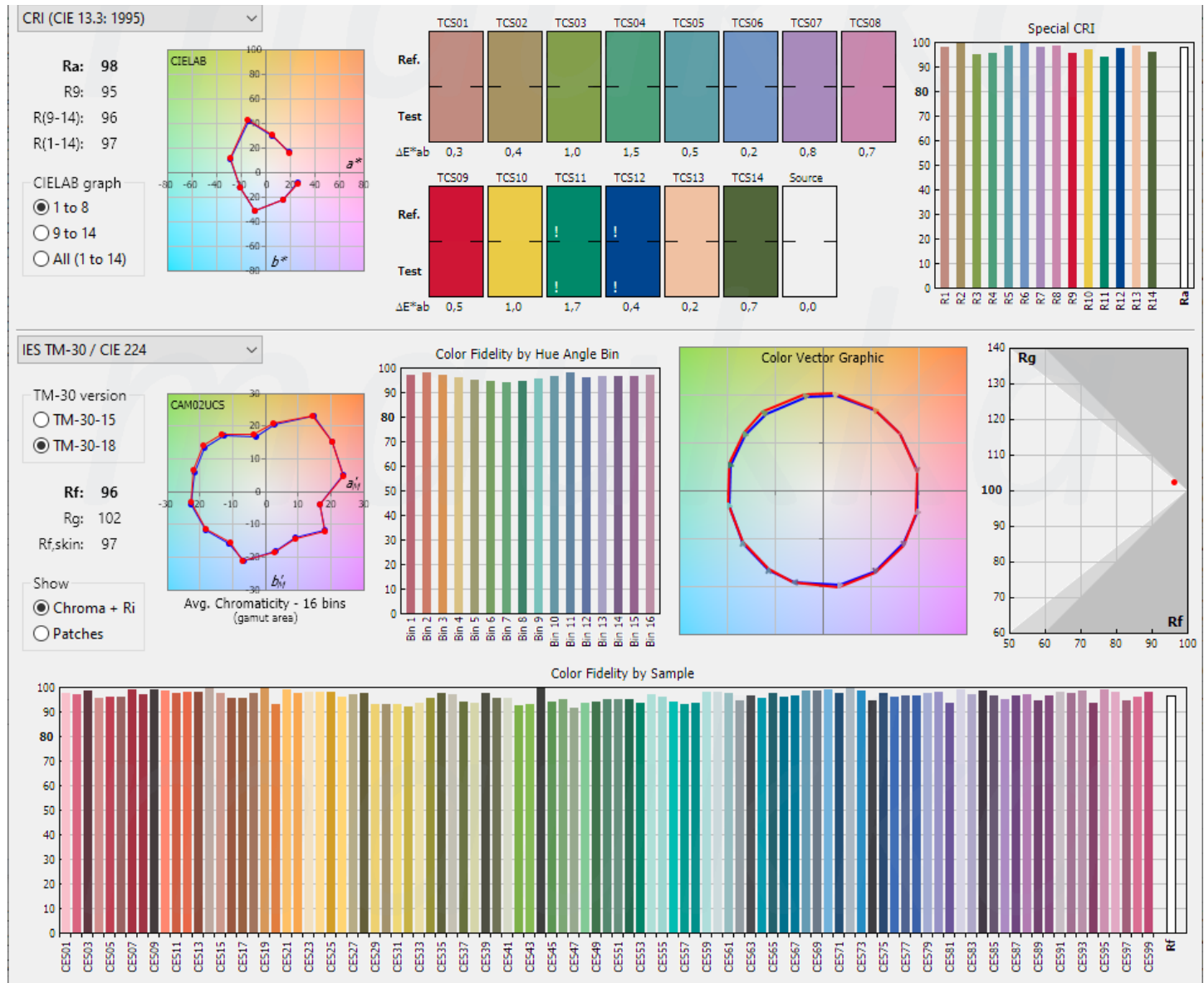


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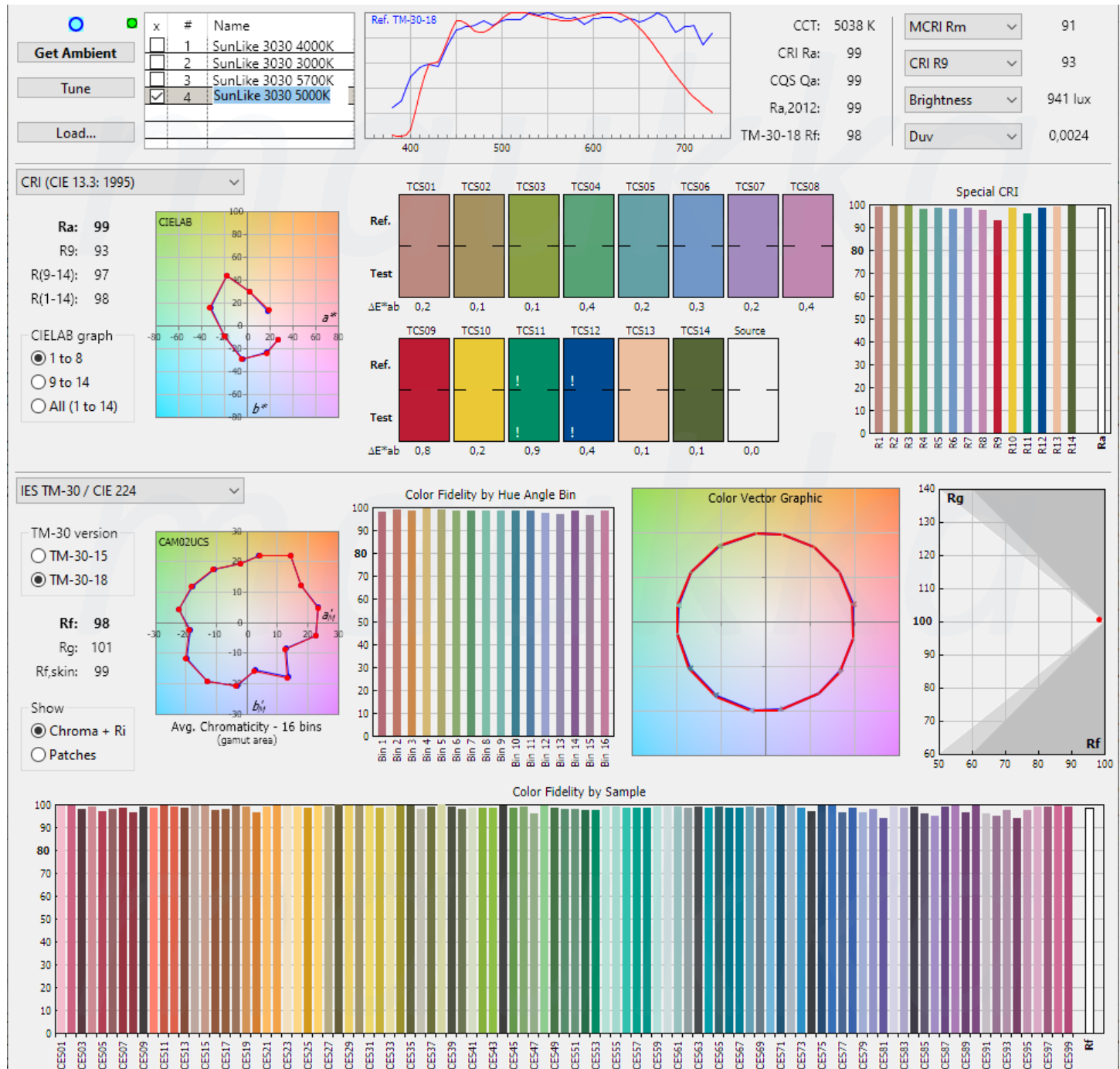
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SUNLIKE SEOUL SEMICONDUCTOR LED 2700K TM-30



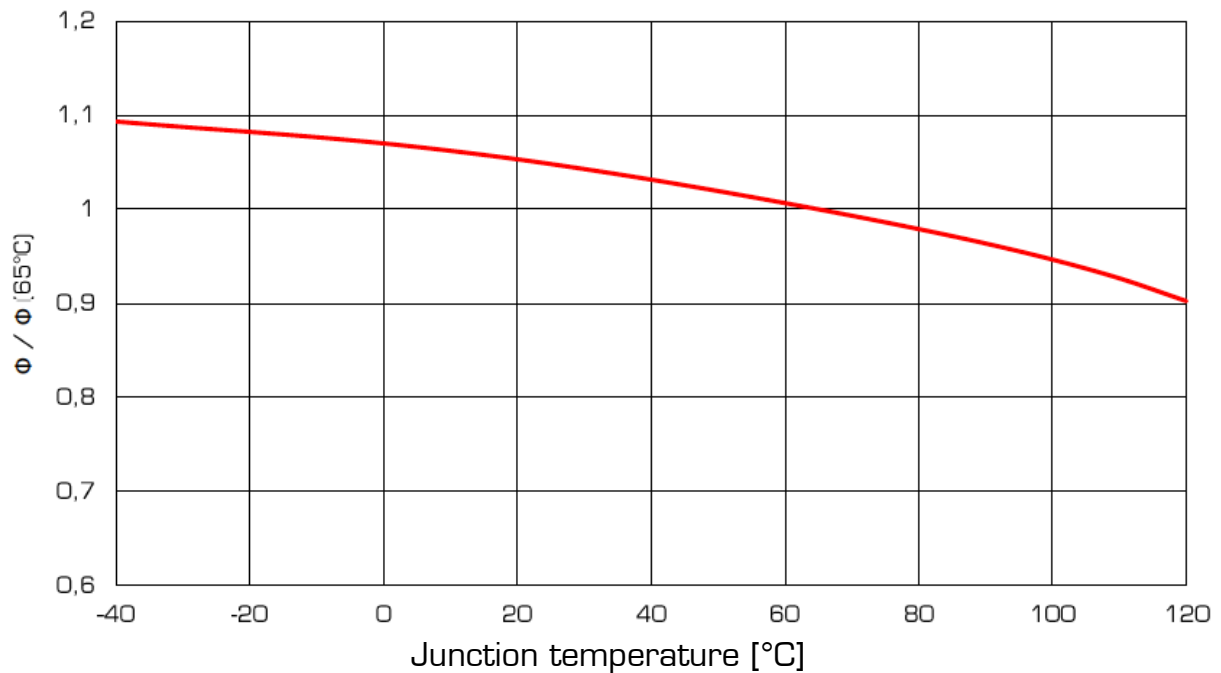
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SUNLIKE SEOUL SEMICONDUCTOR LED 5000K TM-30



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LUMINOUS FLUX vs. TEMPERATURE



WARRANTY INFO



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

MANUFACTURING INFO

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



This LED module is made on a ISO-certified production line that has been tailored specifically to the requirements of assemblies with LED technology. Nearly one million components can be processed per day in the production line.

In the in-house assembly line, high performance automatic placement machines by Siemens place large and small components in an extremely fast and precise way. The vapour phase soldering machine by the market leader Asscon differs from ordinary convection soldering furnaces by its extraordinarily gentle soldering process under protection gas atmosphere. This prevents oxidation and cold solder joints and improves the thermal connection of component

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and PCB. This is particularly advantageous for LEDs, whose aging scales with the operating temperature.

The entire process is flexibly adaptable to the requirements and batch sizes of our customers and runs fully automatically.

- State-of-the-art machinery with the latest technology
- Production of circuit boards with lengths of up to 600 mm
- Traceability thanks to laser bar codes
- Maximum process safety with fully automated processing
- ISO certification



Our professional LED Strips and Modules use LEDs from market leaders

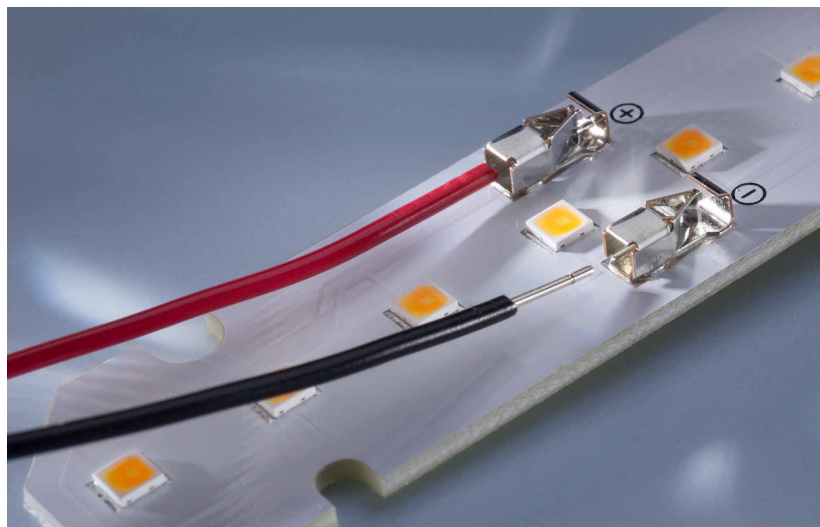
We develop and produce our LED strips at a state of the art facility in Germany, with the highest quality standards and by using only LEDs from market leaders such as Nichia, Samsung or Toshiba.

- **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:

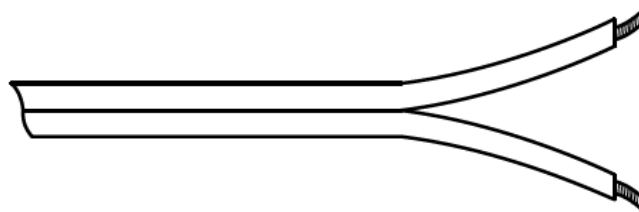
- We use LEDs from top brands and have superior designs
- We offer **professional support** for lighting projects
- The PCBs use high quality materials for best resistance, current flow and heat transfer
- Performance values in this datasheet match those in real world applications
- Function perfectly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

CONNECTION OF LED STRIP



The professional LumiBar strip is connected via a solderless connection to the connection inputs provided for this purpose. **The form factor and connection is designed according to the Zhaga standard (Book 7 L28W2).**

The wire insulation has to be removed at the connection point. Recommend wire cross-section of inner conductor: $2 \times 0.75 \text{ mm}^2$ (AWG 18).



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LED MODULE PRODUCT NAME EXPLAINED

BackMatrix3080 Nichia LED Module warm white CRI80 3000K 6500lm 24V 49 LEDs 29x29cm (23233 lm/sqm)

Product name	Primary application:	Spectrum quality (CRI):	LED brand	Photometric data	Electrical data	Key Photometric and electrical data per meter, for easy comparison to other LED modules
	10XX = LED module for ambient light (up to 5000 lm/sqm)	xx80 = minimum acceptable	Product type		Dimensions	
	20XX = LED module for general light, when combined with other sources (up to 15000 lm/sqm)	xx90 = good			Mechanical data	
	30XX = LED module for general light (up to 25000 lm/sqm)	xx95 = very good				
	40XX = LED module for work light (up to 100000 lm/sqm)	xx98 = best (full spectrum light)				

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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We reserve the right to make technical changes.

This LED module can be purchased via the following websites:

www.ledrise.eu / www.lumistrrips.com

