

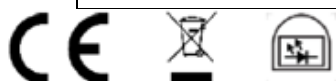


LUMIBARTW-26-4090 NICHIA 2 IN 1 SERIES LED MODULE 2700K-6500K  
TUNABLE WHITE CRI80 1081LM 28CM MODULE

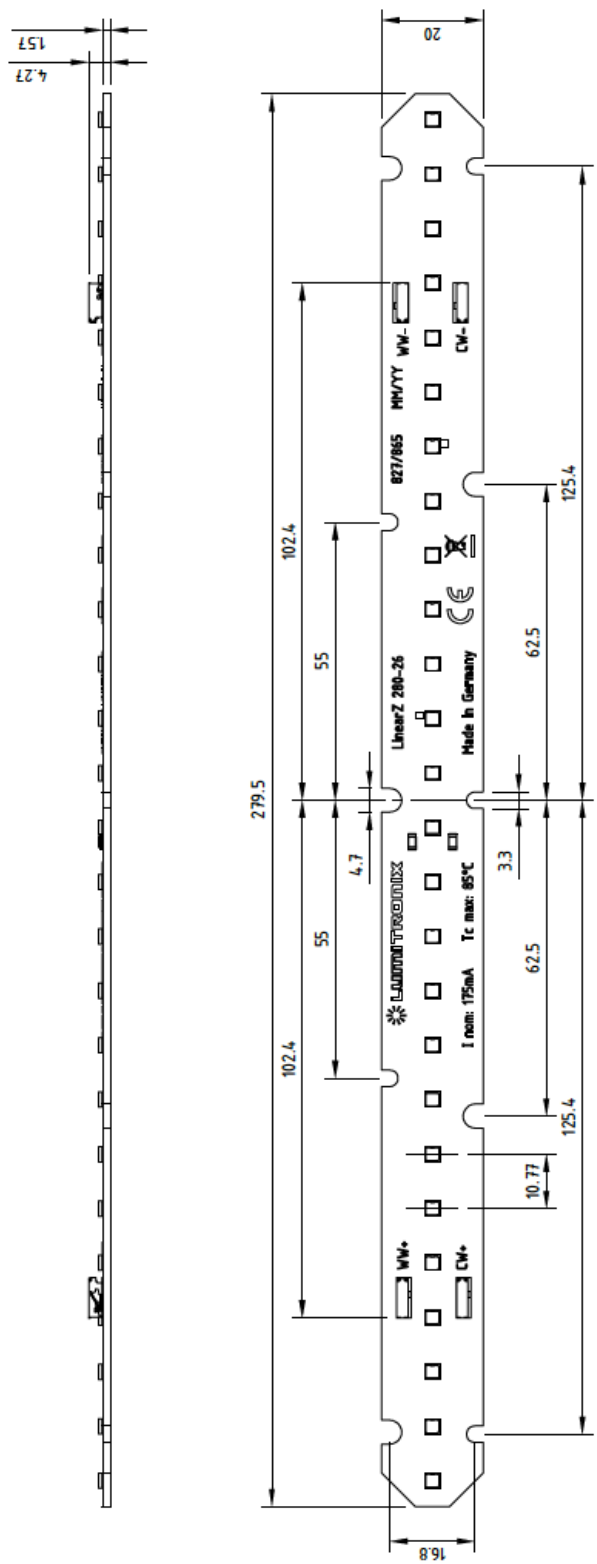
SKU: 35598

# LUMIBARTW-26-4090 NICHIA 2 IN 1 SERIES LED MODULE 2700K-6500K TUNABLE WHITE CRI80 1081LM 28CM MODULE

Article number (SKU)		35598	
Product name		LumiBarTW-26-4090 Nichia 2 in 1 Series LED Module 2700K-6500K Tunable White CRI80 1081lm 28cm module	
Classification		Professional	
Model identifier (equivalent models)		LinearZ 280-26 TunableWhite	
Photometric data (at TJ = 65°C ± 10%)			
Light color		Warm white   Cold white	
Binning		5-Step MacAdam	
Color temperature (K)		2700 K   6500 K	
Dominant wavelength (nm)			
Luminous flux (lm)		1047 lm   1081 lm	3730 - 3860 lm/m
Radiant power (mW)			
CRI (Ra)		>80	
Efficiency (lm/W)		158 lm/W   163 lm/W	
Beam angle FWHP		120°	
Lifetime L80B50C1 (h)		>60000 h	
Photometric code		827/559   865/559	
Electrical data (at TJ = 65°C, ± 10%) (reference settings)			
Operating mode		Constant current	
Voltage (V)		37.70 V	
Current (mA)		175 mA   175 mA	
Power (W)		6.60 W   6.60 W	23 W/m
Dimmable		Yes	
Dimensions / Mechanical data		Metric units	Imperial units
Length		279.5 mm	10.984"
Width		20 mm	0.786"
Height		4.25 mm	0.179"
Number of LEDs (pcs)		26 pcs	
Weight (g)		17 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		RGO	
Energy efficiency class		B	
Mains voltage luminous efficacy (lm/W)		163 lm/W	
Version			
Date		25. Sept 2023	

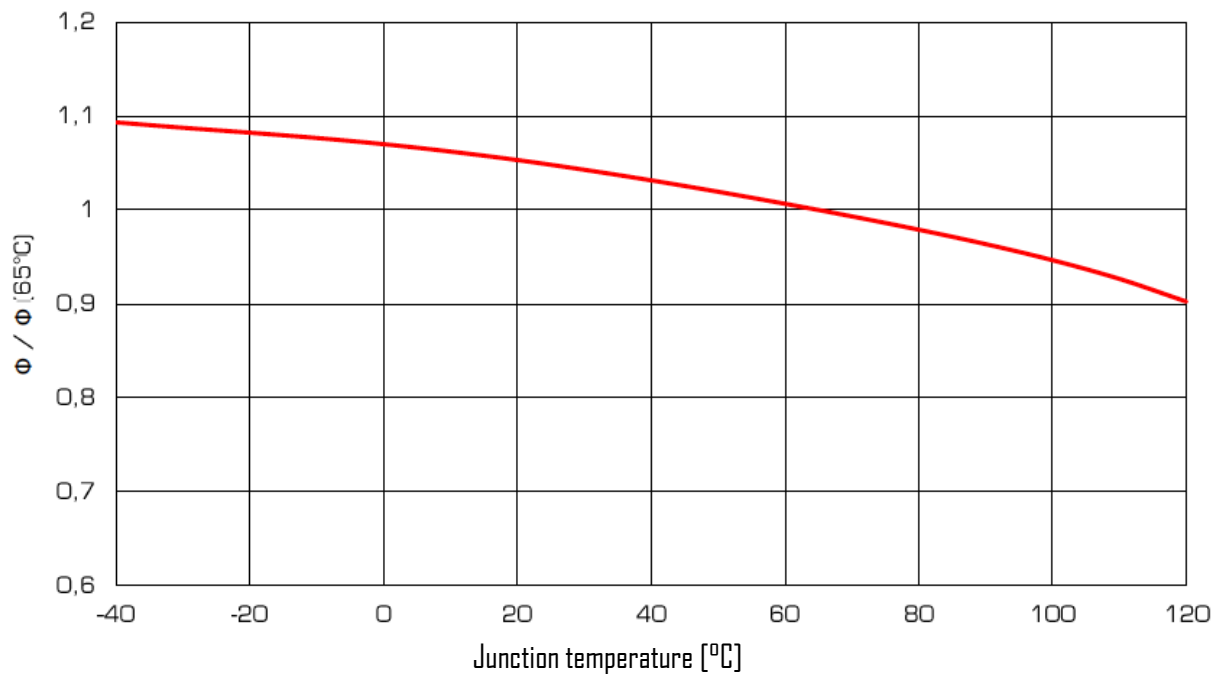


LUMIBARTW-26-4090 NICHIA 2 IN 1 SERIES LED MODULE 2700K-6500K TUNABLE  
WHITE CRI80 1081LM 28CM MODULE



# LUMIBARTW-26-4090 NICHIA 2 IN 1 SERIES LED MODULE 2700K-6500K TUNABLE WHITE CRI80 1081LM 28CM MODULE

**LUMINOUS FLUX vs. TEMPERATURE**



## WARRANTY INFO

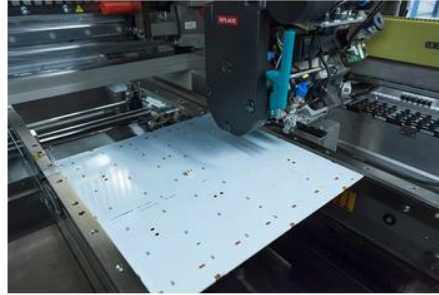


This LED module has 5 years commercial warranty. Please refer to <https://www.lumistrips.com/lumistrips-en-warranty> for warranty terms.

## MANUFACTURING INFO

## LUMIBARTW-26-4090 NICHIA 2 IN 1 SERIES LED MODULE 2700K-6500K TUNABLE WHITE CRI80 1081LM 28CM MODULE

 **made  
in  
Germany**



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 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

## LUMIBARTW-26-4090 NICHIA 2 IN 1 SERIES LED MODULE 2700K-6500K TUNABLE WHITE CRI80 1081LM 28CM MODULE

- 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.

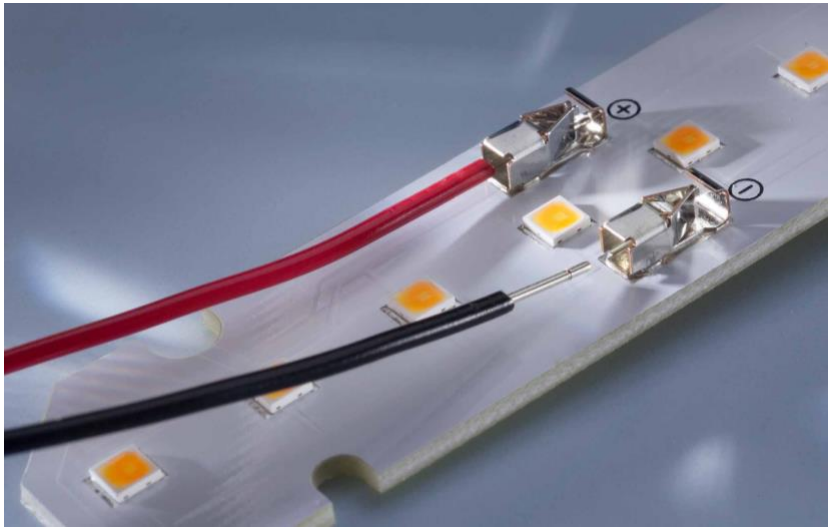
- **Nichia** is the LED market leader, with over 25% market share and decades of experience. Nichia researchers invented the blue and white LED production technology, also receiving the Nobel Prize for this achievement. Nichia LEDs are the **most efficient** (200 lm / w efficacy), durable (> 100,000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

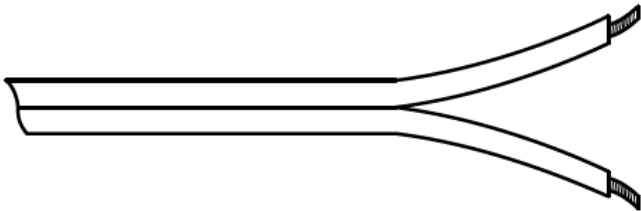
- We use LEDs from top brands and have superior designs
- We offer **professional support** for lighting projects
- The PCBs use high quality materials for best resistance, current flow and heat transfer
- Performance values in this datasheet match those in real world applications
- Function perfectly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

### CONNECTION OF LED STRIP

LUMIBARTW-26-4090 NICHIA 2 IN 1 SERIES LED MODULE 2700K-6500K TUNABLE WHITE CRI80 1081LM 28CM MODULE



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 x 0.75 mm<sup>2</sup> (AWG 18).



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.

## LUMIBARTW-26-4090 NICHIA 2 IN 1 SERIES LED MODULE 2700K-6500K TUNABLE WHITE CRI80 1081LM 28CM MODULE

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