

DATASHEET

LUMIBAR-28-3090 SAMSUNG LED STRIP WARM WHITE CRI90 3000K 650LM 250MA 15V 24 LEDS 28CM MODULE

SKU: 38849



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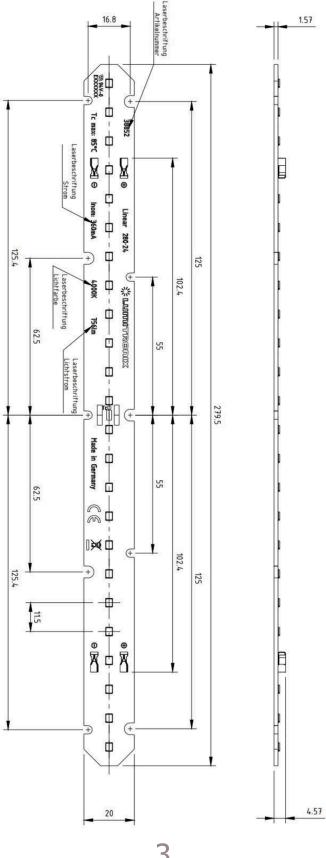
| 38849 | |
|--------------------------------------|---|
| LumiBar-28-3090 Samsung | g LED Strip warm |
| white CRI90 3000K 650lm 250mA 15V 24 | |
| LEDs 28cm mo | odule |
| | |
| LED Module 280-24 | |
| | |
| | |
| | |
| 3000 K | |
| - | 1 |
| 650 lm | 2322 lm/m |
| - | |
| | |
| 171 lm/W | |
| 120° | |
| >40.000 h | |
| 930/339 | |
| ence settings) | |
| Constant current | |
| 15.84 V | |
| 240 mA | |
| 3.8 W | 14 W/m |
| 0 W | |
| Yes | |
| Metric units | Imperial units |
| 279.5 mm | 10.984" |
| 20 mm | 0.786" |
| 4.57 mm | 0.18" |
| 24 pcs | |
| 20 g | |
| Yes, no cooling necessary | |
| | |
| -40 °C to +85 °C | |
| -40 °C to +50 °C | |
| -40 °C to +100 °C | |
| | |
| Yes | |
| RG0 | |
| В | |
| D | |
| 187 lm/W | |
| | |
| | LumiBar-28-3090 Samsung white CRI90 3000K 650lm LEDs 28cm modern Professional LED Module 280-24 Warm White Guarter Bin 3000 K - 650 lm - 990 171 lm/W 120° >40.000 h 930/339 |













LUMIBAR-28-3090 SAMSUNG LED STRIP WARM WHITE CRI90 3000K 650LM 250MA 15V 24 LEDS 28CM MODULE

WARRANTY INFO

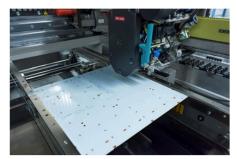


This LED Strip has 5 years commercial warranty. Please refer to https://www.lumistrips.com/lumistrips-en-warranty for warranty terms.

MANUFACTURING INFO





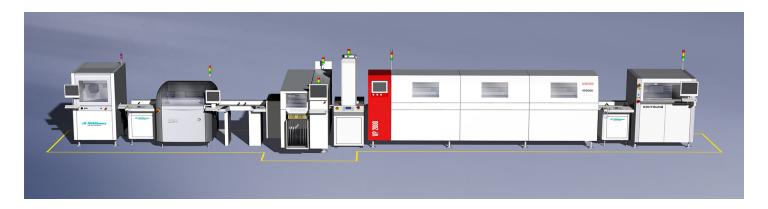




The LumiBar is **made in Germany**, at a production line that uses the innovative manufacturing technology of plasma direct metallization, to turn substrates into electrical conductive and solderable circuit boards, even those that before have not been suitable for an assembly with electronic components.



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This LED strip 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
- Traceability thanks to laser bar codes
- Maximum process safety with fully automated processing
- ISO certification







OHSAS 18000 health and safety management system



ISO 14001 Environment Management System



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.

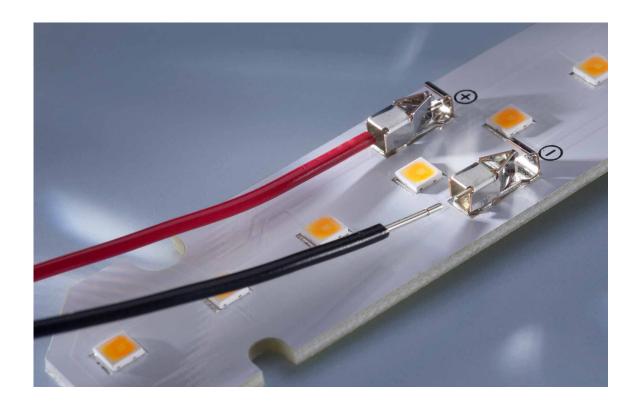
- Nichia is the LED market leader, with over 25% market share and decades of experience. Nichia researchers invented the blue and white LED production technology, also receiving the Nobel Prize for this achievement. Nichia LEDs are the most efficient (200 lm / w efficacy), durable (> 100,000 hours) and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

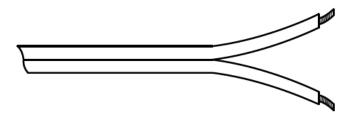


CONNECTION OF LED STRIP



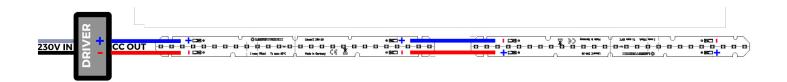
The professional LumiBar strip is connected via a solderless connection to the connection inputs provided for this purpose. The form factor and connection is Designed according to the Zhaga standard (Book 7 L28W2).

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).





MULTIPLE LED STRIP CONNECTION NOTES



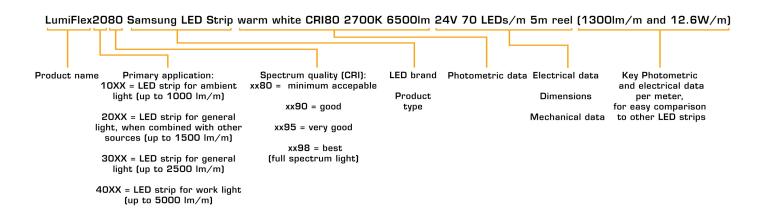
Several Lumibar stirps can be connected in series to a constant current (CC) driver.

The series connection is applied by connecting the positive (+) terminal of the first LED strip to the negative (-) terminal of the second LED strip. This pattern is repeated for further LED strips, from the negative (-) of the second strip to the positive (+) of the third strip and so on. At the same time, the negative (-) of the first LED strip is wired to the (+) of the second, then the (-) of the second to the (+) of the third and so on.

In a series connection of LED strips, the current of the string is equal to the current of the first LED strip, while the voltage is the sum of the voltages for all LED strips (voltage of the first LED multiplied by the number of LED strips). The sum voltage of the string has to be supported in the CC LED driver datasheet.



LED STRIP PRODUCT NAME EXPLAINED



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 strip can be purchased via the following websites:

www.ledrise.eu / www.lumistrips.com

