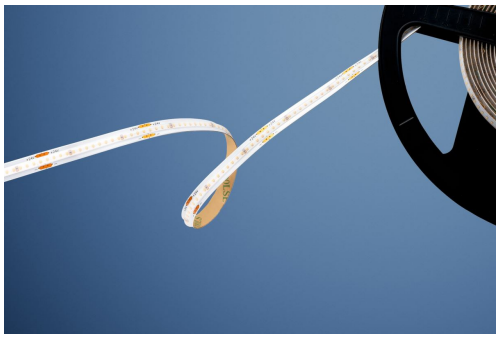
# LED STRIP BASIC CSP 320



- flexible CSP (chip-scale package) LED strip with advanced LED technology and high luminous efficacy
- very suitable for installation in flat profiles
- high-quality 3M double-sided adhesive tape on the back for easy installation
- the very short pitch of just 50 mm offers great flexibility in luminaire construction
- high quality of light and true-to-life representation of colors thanks to a high color rendering index > 90 (CRI>90)
- continuously dimmable without loss of efficiency
- extremely high chip density: 320 LED chips per meter
- the beam angle of the CSP LED strip is 150°
- service life: L70 > 50,000 h at Ta < 25 °C

## PHOTOMETRIC DATA

| | 51542727 | 51542730 | 51542740 |
|---|---|---|---|
| **Typ. colour temperature ±15%** | 2700 K | 3000 K | 4000 K |
| **Light color** | warm white | white | cold white |
| **Typ. luminous flux per meter** | 970 lm/m | 1012 lm/m | 1036 lm/m |
| **Efficiency** | 97 lm/W | 100 lm/W | 103 lm/W |
| **Typ. color rendering index** | 90 | | |
| **LED beam angle** | 150 ° | | |
| **Lifetime L70** | 50000 h | | |

## ELECTRICAL DATA

| | 51542727 | 51542730 | 51542740 |
|---|---|---|---|
| **Operating voltage** | 24 V DC | | |
| **Typ. operating current** | 2,08 A | | |
| **Typ. power** | 50 W | | |
| **Typ. power per meter** | 10 W/m | | |

## MECHANICAL DATA

| | 51542727 | 51542730 | 51542740 |
|---|---|---|---|
| **Length stripe** | 5000 mm | | |
| **Width stripe** | 8 mm | | |
| **Height stripe** | 2 mm | | |
| **Number of LEDs per metre** | 320 | | |
| **Number of cuts** | 100 | | |
| **Length per cut** | 50 mm | | |
| **Type of protection** | IP 00 | | |
| **Bending radius** | 30 mm | | |
| **Length connector cable** | 150 mm | | |

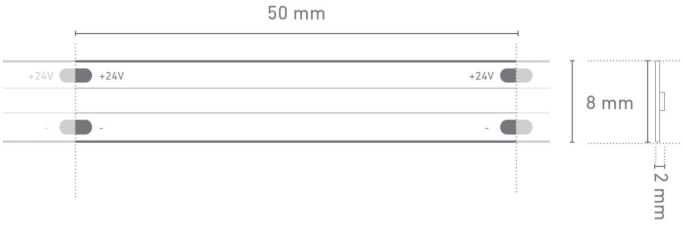
## FURTHER DATA

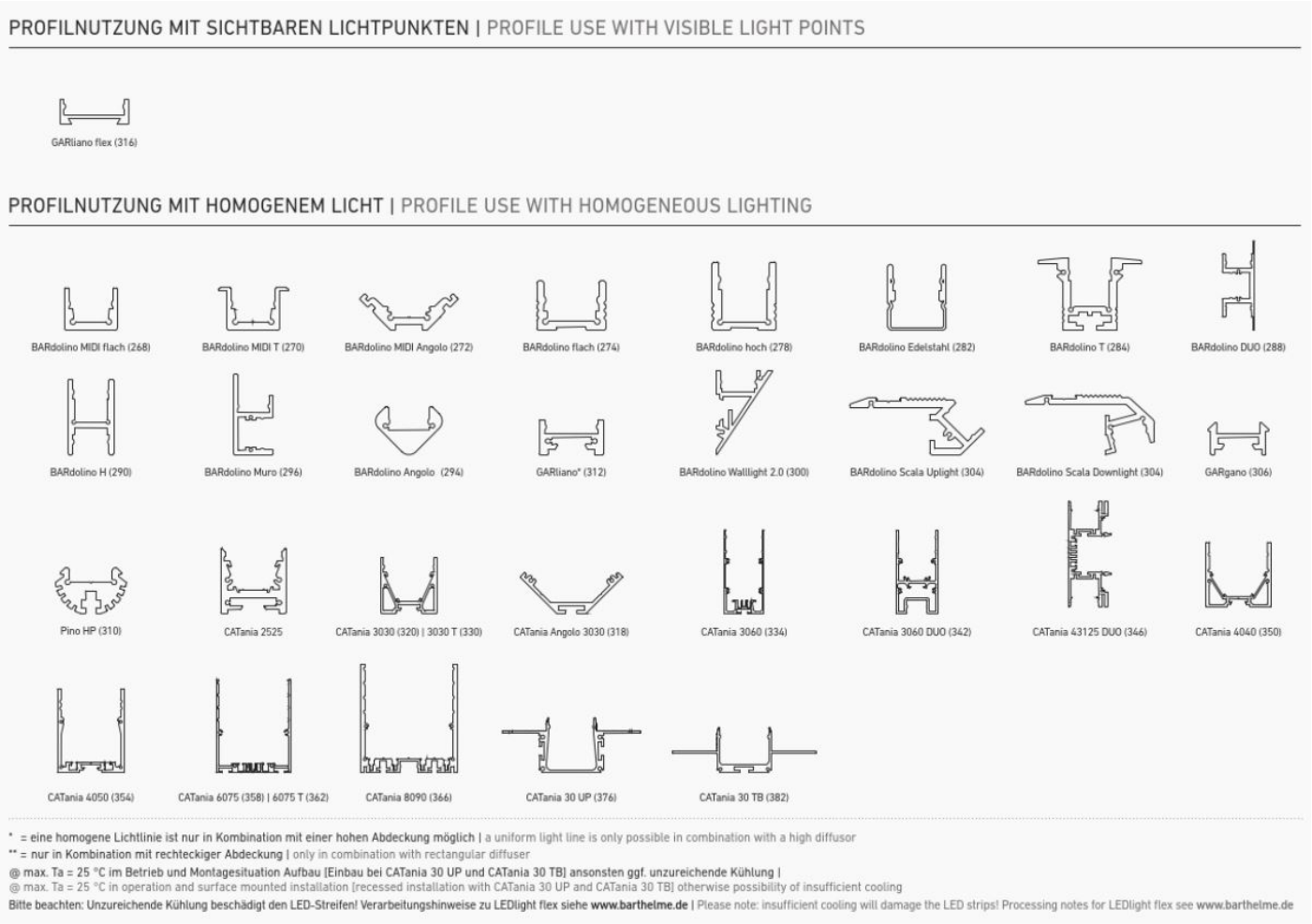
| | 51542727 | 51542730 | 51542740 |
|---|---|---|---|
| **Max. operable length**[1] | 2600 mm | | |
| **Operating temperature** | -25 ° C ~ +45 ° C | | |

[1]The value given applies to the application of the rated voltage at the first module section. When using a supply line, the maximum operable length changes depending on the supply line length and its cross section.

The LED strip can be operated up to 5 m, but a visible loss of brightness is possible.

## TECHNICAL DRAWING



## NOTES

LEDs and the electronic components/devices required for their operation are wearing parts and can function for many years depending on use and location. In general, these products are subject to an aging process, the light output of LEDs decreases in the course of their operating life. The aging of LEDs is due to thermal influences. Our LEDs correspond to the operating life, which has e.g. a L70 value. This means that the installed LEDs of a given type retain at least 70% of their luminous efficiency. Thus, the decrease of the luminous effect of the LED within the above-mentioned scope within the operating life does not represent a defect according to the current state of technology.

Never glue the LED strip over a profile joint! Due to physical expansion or contraction of the profile due to temperature fluctuations, the LED strip can be damaged. This can be remedied by using the right parts for the solder pads at the joint and by using flexible connections, e.g. soldered flexible wire bridges or LED strip connectors.

The adhesion of our LEDlight flex strips to the profiles we offer and their different surfaces has been tested and can be ensured if the processing instructions are followed. If there are adhesion problems between LED strips and aluminum profiles, we recommend pre-treatment with the adhesion promoter "3M™ Tape Primer 94".

The guarantee period for the product is 2 years and begins on the day of shipment. Reference is the date of the delivery bill. The guarantee period may differ for accessories.

## DISPOSAL

Please help to avoid waste. Should you ever wish to part with this item, please remember that many of its components are made of valuable raw materials and can be recycled. Therefore, please do not dispose of it in the dustbin, but please take it to your collection point for electrical appliances. Thank you for your cooperation!