# LEDlight flex 10 8 ULTRA HIGH EFFICIENCY 2000 2.0

- LED strips for highest demands
- excellent color rendering: CRI > 96
- ideal for applications with high daily operating time
- long light lines possible with only one in-feed due to double layer FPC
- very long operating life L90/B10 > 60,000 h at Tc < 80 °C
- current regulation by IC for constant brightness over the entire light line
- with TVS surge protection diode
- with high-quality 3M double adhesive tape

**Please observe the installation and safety instructions at https://www.barthelme.de/content/en/manuals.aspx !**

Note light sources/EPREL: Our LED reels are not subject to classification according to the currently valid regulations. An LED reel contains interconnected light sources, the number and energy efficiency class of which are listed in the data sheet.

## PHOTOMETRIC DATA


| | 50416328 | 50416333 | 50416334 | 50416315 |
|---|---|---|---|---|
| **Typ. color temperature** | 2700 K | 3000 K | 4000 K | 5700 K |
| **Light color** | warm white | white | cold white | daylight |
| **Typ. luminous flux per meter** | 1946 lm/m | 2045 lm/m | 2126 lm/m | 2065 lm/m |
| **Efficiency** | 175 lm/W | 184 lm/W | 192 lm/W | 186 lm/W |
| **Number of light sources** | 60 | | | |
| **EEC of built-in light source** | C | | | |
| **Typ. color rendering index** | 96 | | | |
| **LED beam angle** | 120 ° | | | |
| **Lifetime L90/B10** | >60000 h | | | |

## ELECTRICAL DATA

| | 50416328 | 50416333 | 50416334 | 50416315 |
|---|---|---|---|---|
| **Operating voltage** | 24 V DC | | | |
| **Typ. operating current** | 2,2 A | | | |
| **Typ. power** | 53,3 W | | | |
| **Typ. power per meter** | 11,1 W/m | | | |

## MECHANICAL DATA

| | 50416315 | 50416328 | 50416333 | 50416334 |
|---|---|---|---|---|
| **Length stripe** | 4800 mm | | | |
| **Width stripe** | 8 mm | | | |
| **Height stripe** | 1,4 mm | | | |
| **Number of LEDs per cut** | 8 | | | |
| **Number of LEDs per metre** | 100 | | | |
| **Number of cuts** | 60 | | | |
| **Length per cut** | 80 mm | | | |
| **Type of protection** | IP 00 | | | |
| **Bending radius** | 20 mm | | | |
| **Length connector cable** | 500 mm | | | |

| | 50016328 | 50016333 | 50016334 | 50016315 |
|---|---|---|---|---|
| **Color temperature** | 2700 K | 3000 K | 4000 K | 5700 K |
| **EEC of built-in light source** | C | | | |
| **Cut** | Cut length 80 mm | | | |

ORDER YOUR DESIRED INDIVIDUAL STRIP LENGTH [CUT]: The order quantity is a multiple of the smallest cutting length of the LED strip (cut). Ordering example: To order your required length of 210 cm of LEDlight flex High Efficiency 08 8 cool white (4000 K): 35x Art.-No. 50008634 (cut length 60 mm x 35 = 210 cm). If you re-quire varying strip lengths then please order each strip length as a separate position.

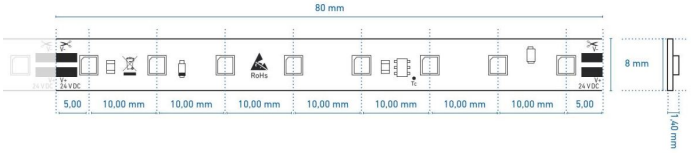
## FURTHER DATA

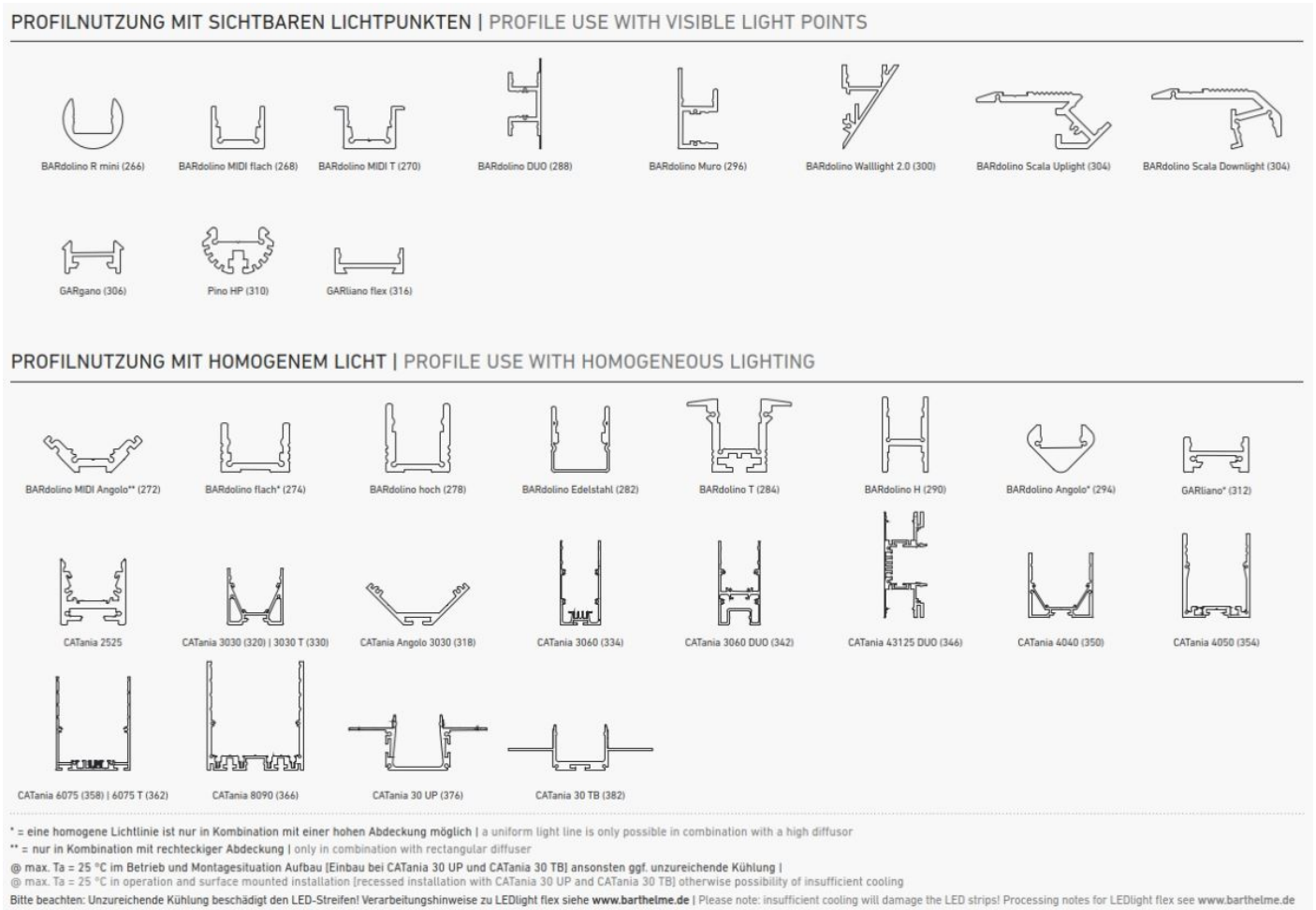
| | 50416328 | 50416333 | 50416334 | 50416315 |
|---|---|---|---|---|
| **Max. operable length**[1] | 5760 mm | | | |
| **Storage temperature** | -30° C ~ +80° C | | | |
| **Max. temperature Tc**[2] | 80 ° C | | | |

[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. At www.barthelme.de you will find an overview table for orientation.

[2] The Tc point is marked on each cut. This should be measured in the thermally stable state.

## 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 L90/B10 value. This means that the installed LEDs of a given type retain at least 90% of their luminous efficiency and a maximum of 10% of the installed LEDs can deviate from this. 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 5 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!