LEDlight flex 16 10 High Efficiency RGBW/A

- combination of RGB LED and single LED enables homogeneous colour mix
- straightforward regulation via com+ (we recommend our CHROMOFLEX series)
- RGBW (RGB + white): generates pastel shades, pure white and warmer and cool white tones (comparable with controlled white)
- RGBA (RGB + Amber): generates saturated colour tones, more mixed colours and natural white tones (compared to conventional RGB colour mixes)
- long LED lifetime due to current limiter with integrated temperature control, high amount of copper in FPC and 3M thermoconducting adhesive tape
- estimated lifetime L70 at Tc < 65 °C: > 30,000 h

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

PHOTOMETRIC DATA

	50409132	50409128	50409133	50409134
Typ. color temperature		2700 K	3000 K	4000 K
Light color	RGB;amber	RGB;warm white	RGB;white	RGB;cold white
Typ. luminous flux per meter - total	860 lm/m	1250 lm/m	1270 lm/m	1360 lm/m
Typ. luminous flux per meter - red	200 lm/m			
Typ. luminous flux per meter - green	385 lm/m			
Typ. luminous flux per meter - blue	85 lm/m			
Typ. luminous flux per meter - white	190 lm/m	580 lm/m	600 lm/m	690 lm/m
Efficiency total	45 lm/W	65 lm/W	66 lm/W	71 lm/W
Typ. color rendering index		84		
LED beam angle	120 °			
Lifetime L70	>30000 h			

Note: Our RGB bands are principally intended as an accent and mood lighting. The LEDs are binned on brightness and wavelength (when choosing one of these colors the band in color/brightness is uniform), but when mixing the 3 colors to "white" the whiteness within the stripe can distinguish visible.

ELECTRICAL DATA

	50409132	50409128	50409133	50409134
Operating voltage	24 V DC			
Typ. operating current	3,21 A			
Typ. power	77 W			
Typ. power per meter	19,2 W/m			

MECHANICAL DATA

	50409128	50409132	50409133	50409134
Length stripe	4000 mm			
Width stripe	10 mm			
Height stripe	2,5 mm			
Number of LEDs per cut	12			
Number of LEDs per metre	120			
Number of cuts	40			
Length per cut	100 mm			
Type of protection	IP 00			
Bending radius	20 mm			
Length connector cable	500 mm			

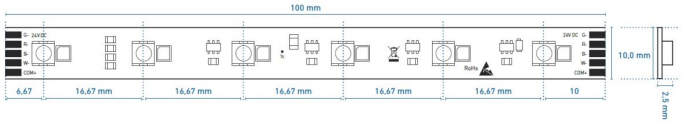
	50009132	50009128	50009133	50009134
Color temperature		2700 K	3000 K	4000 K
Cut	Cut			

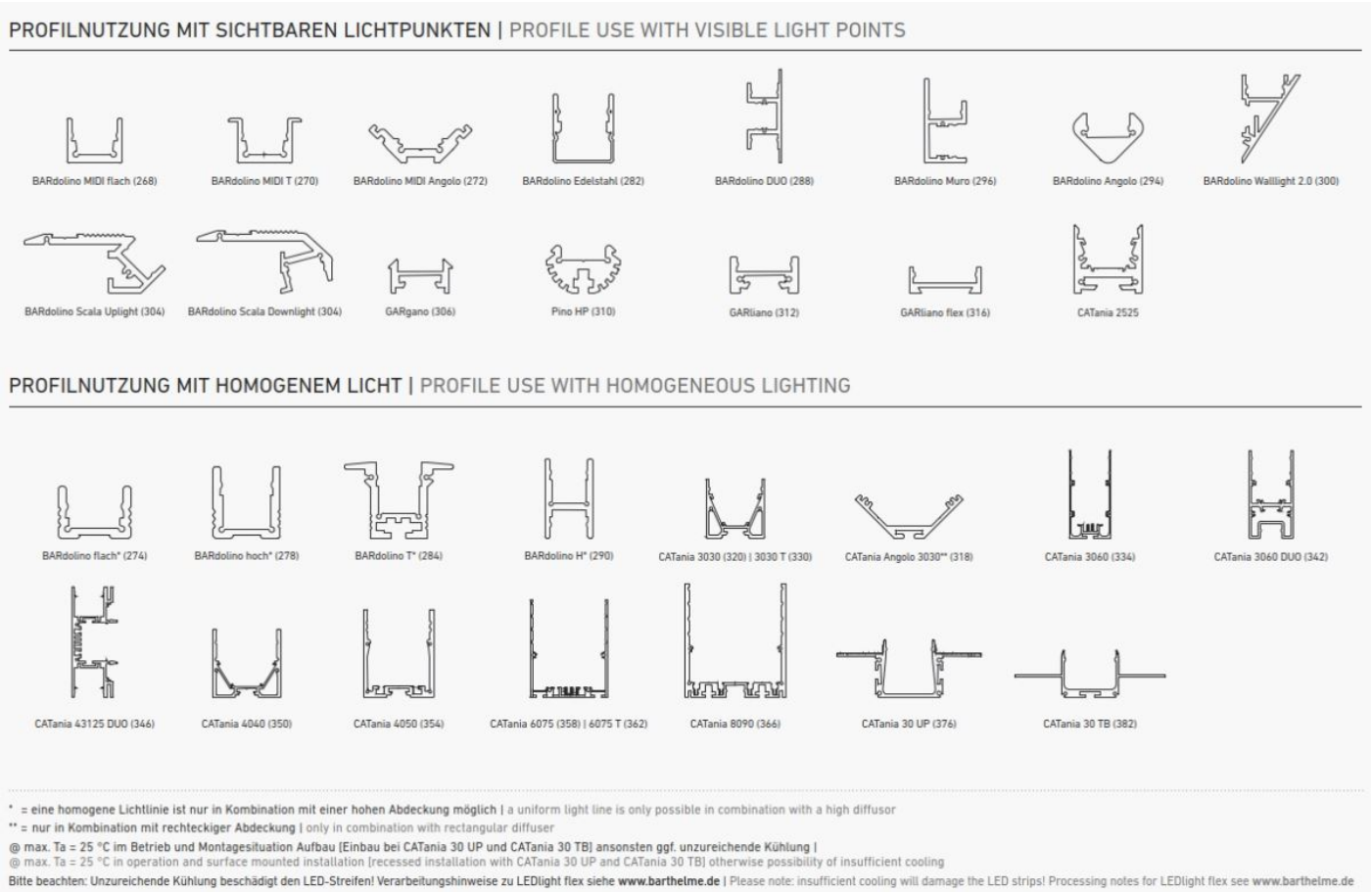
ORDER YOUR DESIRED INDIVIDUAL STRIP LENGTH [CUT]: The order quantity is a multiple of the smallest cutting length of the LED strip (cut). Ordering example: To order your required length of 210 cm of LEDlight flex High Efficiency 08 8 cool white (4000 K): 35x Art.-No. 50008634 (cut length 60 mm x 35 =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

GENERAL DATA

	50409132	50409128	50409133	50409134
Max. operable length[1]	5500 mm			
Storage temperature	-30° C ~ +80° C			
Max. temperature Tc[2]	65 ° C			

TECHNICAL DRAWING





* = eine homogene Lichtlinie ist nur in Kombination mit einer hohen Abdeckung möglich | a uniform light line is only possible in combination with a high diffusor
** = nur in Kombination mit rechteckiger Abdeckung | only in combination with rectangular diffuser
@ max. Ta = 25 °C im Betrieb und Montagesituation Aufbau [Einbau bei CATania 30 UP und CATania 30 TB] ansonsten ggf. unzureichende Kühlung |
@ max. Ta = 25 °C in operation and surface mounted installation [recessed installation with CATania 30 UP and CATania 30 TB] otherwise possibility of insufficient cooling
Bitte beachten: Unzureichende Kühlung beschädigt den LED-Streifen! Verarbeitungshinweise zu LEDlight flex siehe **www.barthelme.de** | Please note: insufficient cooling will damage the LED strips! Processing notes for LEDlight flex see www.barthelme.de

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!