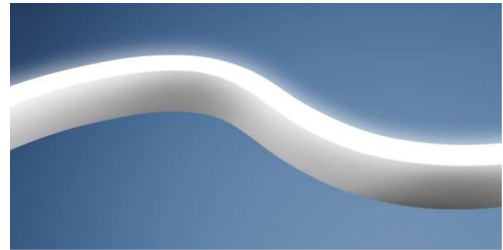


# AQUALUC C:URVE Bright 48 V

- fully encapsulated flexible LED light line with thermal conductive polyurethane-ceramic compound and IP 67 protection
- only one bin per color according to 3 step MacAdam
- resistant to water, UV radiation, abrasion and chemicals
- small bending radius of only 150 mm (only one axis)
- uniform, absolute homogeneous illumination over the entire light emitting surface in curve form (i.e. with upward light emittance the C:URVE can be horizontally bent left and right in a curve)
- clear lines and light-emitting surface enables a flush installation in ceilings, walls and furniture
- specially designed in-feed system: cable feed from below/side which enables a shadow-free alignment of numerous modules for a homogeneous light line with uninterrupted illumination



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

When ordering, please note the article number scheme at the end of the data sheet.

## PHOTOMETRIC DATA



	AQUA-3010-0027	AQUA-3010-0031	AQUA-3010-0042	AQUA-3010-0061
Type of color	White			
Typ. color temperature	2700 K	3100 K	4200 K	6100 K
Light color	warm white	white	cold white	daylight
Typ. total luminous flux per metre	432 lm/m	438 lm/m	525 lm/m	463 lm/m
Efficiency	54 lm/W	55 lm/W	66 lm/W	58 lm/W
EEC of installed light source(s)	F	E	D	
Typ. color rendering index	88	90	88	91
Beam angle	120 °			
Dimming	dimmable			
LED strip used	LEDlight flex 12 48 V			
L90/B10 bei Ta < 55°C	> 60.000 h			

PHOTOMETRIC DATA TOLERANCES IN THE AQUALUC FAMILY: The stated photometric data of the AQUALUC products are typical values which in practice are influenced by the binning of the LED's as well as the individual production steps in the encapsulation process. Factors such as layer thickness, type of encapsulation and the light color of the uncoated LED's have an influence on the resulting color temperature of the finished AQUALUC product. As each of these factors are subject to process and production related tolerances the resulting photometric data of the AQUALUC products can deviate from the stated typical values.

## ELECTRICAL DATA

	AQUA-3010-0027	AQUA-3010-0031	AQUA-3010-0042	AQUA-3010-0061
Operating voltage	48 V DC			
Power per meter	8,7 W/m			

## MECHANICAL DATA

	AQUA-3010-0027	AQUA-3010-0031	AQUA-3010-0042	AQUA-3010-0061
Width			10 mm	
Height			18,5 mm	
Bending radius			150 mm	
Type of protection			IP 67	
Impact resistance IK			IK10	

Aqualuc products have a length tolerance +/- 5 mm at < 1 m and +/- 0.2 % at > 1 m

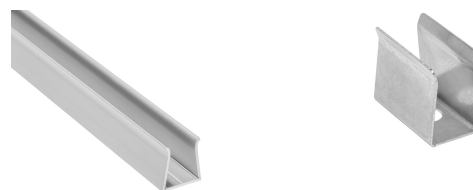
## GENERAL DATA

	AQUA-3010-0027	AQUA-3010-0031	AQUA-3010-0042	AQUA-3010-0061
Ambient temperature Ta			-20 °C ~ +55 °C	
Max. temperature Tc			68 °C	
Max. buildable length with 1 m cable			9750 mm	
Remarks			Connection/forwarding cable: optionally 1 - 6 m with free wire ends or 0.35 m with M8 plug	

## ACCESSORIES

	40500033	40500034	40500037	40500038	40500071	40500072
Description	AQUALUC C:URVE (10 x 18,5 mm) aluminium mounting profile, anodised		AQUALUC C:URVE (10 x 18,5 mm); not gripping mounting profile, aluminium, anodized		AQUALUC C:URVE (10 x 18,5 mm) mounting profile, PC plastic, UV resistant	
Material	Aluminium 6063					Plastics
Length	1000 mm	2000 mm		3000 mm	1000 mm	2000 mm
Width	15,3 mm		14,6 mm		15,3 mm	
Height	16,3 mm		25 mm		16,3 mm	
Remarks			The Aqualuc is enclosed and can move freely. Strain and compression of the light line are avoided in the event of temperature fluctuations.			

	40500035	40500036
Description	AQUALUC C:URVE (10 x 18,5 mm) aluminium bracket set, 10 pieces 5 cm, 10 screws, 10 dowels	AQUALUC C:URVE (10 x 18,5 mm) bracket set, 10 pieces stainless steel 316L, 10 screws, 10 dowels
Material	Aluminium 6063	316L stainless steel
Length	50 mm	20 mm
Width	15,3 mm	11,5 mm
Height	16,3 mm	16,5 mm
Remarks	Diameter hole: 2.9 mm	Diameter hole: 6 mm



	30033019	40100111	63500024	63500033
Description	heat resistant double-sided tape, with excellent adhesive properties	dismounting tool, minimizes the mechanical stress on the product when removing	Technical Vaseline, high purity, chemically neutral, 80 g tube, suitable for all mounting profiles	Silicone adhesive and sealant, one-component, transparent, cartridge 290 ml
Material	Acryl	Poly lactide PLA		
Length	33000 mm	210 mm		
Width	9 mm	8 mm		
Height	0,4 mm	62 mm		
Remarks	33 m x 9 mm		For the assembly of the AQUALUC absolutely recommended	not suitable for PC-plastic profiles

	66313203	66313210	66313230
<b>Description</b>	M8 connector, stainless steel, 2-pole, screwable, moulded on cable with cross section 2x 0.5 mm <sup>2</sup>		
<b>Indoor/Outdoor</b>	Outdoor		
<b>Cable sheath material</b>	PUR		
<b>Halogen-free</b>	Yes		
<b>Color of cable</b>	white		
<b>Wire cross-section</b>	2x 0,5 mm <sup>2</sup>		
<b>Length</b>	350 mm	10000 mm	3000 mm



## ARTICLE NUMBER SCHEME

AQUA	XXXX	XXXX	XXXX	XX	XXX	XXX
	1	2	3	4	5	6
TYP   TYPE	LICHTFARBE   LIGHT COLOUR	WUNSCHLÄNGE IN MM   WISH LENGTH IN MM	KABEL-ZUFÜHRUNG   CABLE FEED	ZULEITUNG   CABLE IN-FEED	WEITERLEITUNG   CABLE OUT-FEED	
3010 – Bright 3011 – High Brightness	0027 – 2700 K 0031 – 3100 K 0042 – 4200 K 0061 – 6100 K		21 – einseitig   one-sided 22 – beidseitig   double-sided	001 – 1 m-Kabel   cable 002 – 2 m-Kabel   cable 003 – 3 m-Kabel   cable 004 – 4 m-Kabel   cable 005 – 5 m-Kabel   cable 006 – 6 m-Kabel   cable 101 – 0,35-m-Kabel mit M8-Stecker 0,35 m cable with M8 connector	000 – keine Weiterleitung   no cable out-feed 001 – 1 m-Kabel   cable 002 – 2 m-Kabel   cable 003 – 3 m-Kabel   cable 004 – 4 m-Kabel   cable 005 – 5 m-Kabel   cable 006 – 6 m-Kabel   cable 102 – 0,35-m-Kabel mit M8-Buchse 0,35 m cable with M8 socket	

IN INDIVIDUELLEN LÄNGEN, MIT BEIDSEITIGER EINSPEISUNG ERHÄLTlich |  
AVAILABLE IN INDIVIDUAL LENGTHS, WITH OPTIONAL IN-FEED ON BOTH SIDES

## NOTE

During the production of encapsulated luminaires, air bubbles may be enclosed in the material. These bubbles are production-related and do not constitute a defect. If the bubbles are within the beam path of an LED, this can constitute a defect.

## NOTE CHEMICALS

The AQUALUC encapsulation materials have successfully passed various test series in which resistance to salt, water, UV radiation, abrasion, dust and chemicals were tested. Each AQUALUC light line is ideally suited for indoor and outdoor illumination. For example on facades and bridges, in wellness oases and swimming pools, from maritime areas to industrial applications and vehicle technology - AQUALUC is already being used successfully everywhere. Despite the use of high quality materials and a robust design, there are chemical-related limitations in the areas of application. Please refer to the following link:

<https://www.barthelme.de/shared/download/katalog/AQUALUC-Chemische-Mittel-Chemical-Agents.pdf>

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.