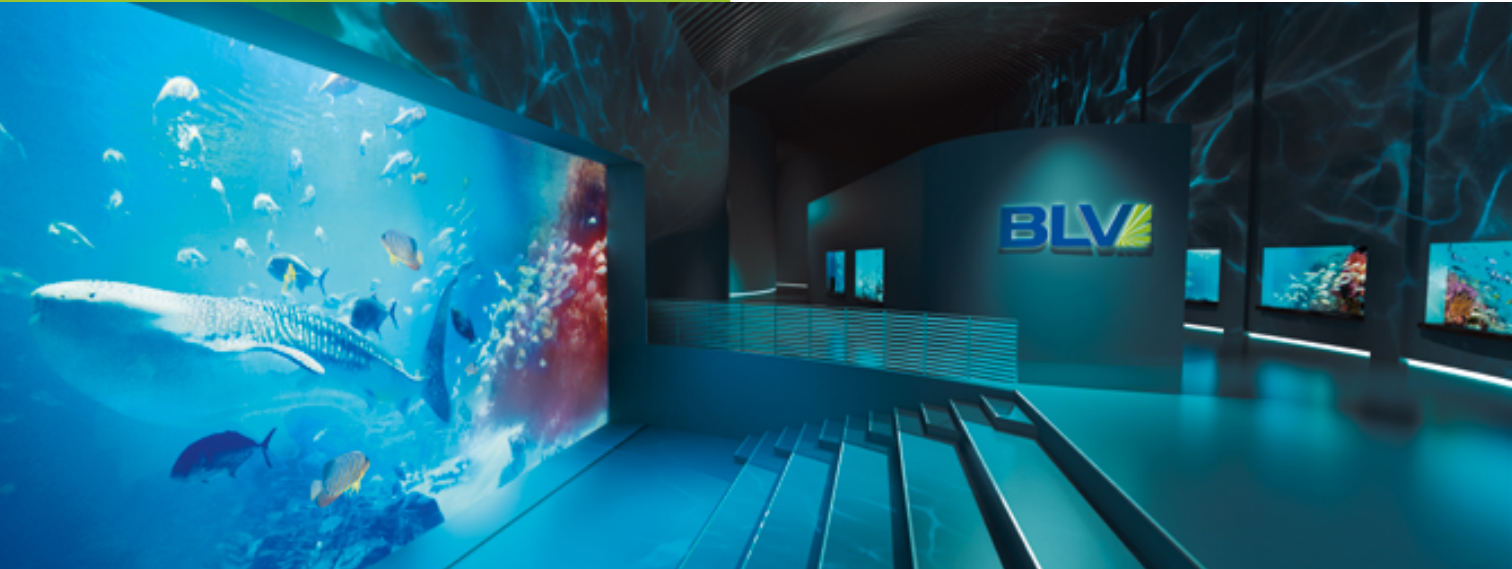


# Aquariums in the best light.

Lighting solutions for professional fishkeeping.



Would you like to optimise your whole aquarium with BLV, the specialist solutions provider for lighting applications? Just give us a call, we will be glad to help you:

 +49 8094 906 400

Immer im besten Licht. **BLV** 

# BLV NEPTURION

A perfect ambiance  
based on accurate illumination.

The lighting of an aquarium is one of the basic elements for aquatic life:

1. Illumination is important for plant and coral growth as well as for the well-being of the fish.
2. Aquatic plants use light as their food source, because the illumination sets the photosynthesis going.
3. Underwater life is subject to special biorhythms that request consistent lighting conditions.

# NEPTURION

BLV expertise:



BLV offers more than lamps and fittings for your aquarium. It is our goal to develop custom-made integral lighting solutions to ensure a maximum of efficiency for you.

## NEPTURION HIT E40

1 000 W

- Single-ended, easy to exchange
- Very good colour rendering (10000 K)
- Available in cool white, aqua white or aqua blue for different colour temperature requirements
- High lifetime of up to 8000 hrs



# BLV NEPTURION

## Metal halide lamps for fishkeeping and coral growth.

To imitate the biological cycle as closely to nature as possible, BLV has developed special lighting technologies which optimally simulate the underwater light conditions. With its spectral distribution similar to sunlight, the **NEPTURION series** was engineered to generate a particularly lively appearance.

### BLV NEPTURION LAMPS' BENEFITS:

- A wide range of models and power settings
- Special light spectrums
- Very high colour temperatures of up to 20 000 K
- Good to very good colour rendering
- High colour stability over the entire lifetime
- Great stimulation of plant and coral growth

## NEPTURION HIT-DE

250 W

- Double-ended
- Very good colour rendering (10 000 K)
- Available in cool white, aqua white or aqua blue for different colour temperature requirements
- Highly efficient with a lifetime of up to 10 000 hrs







## NEPTURION Ocean 3.1

- 3 LED light units
- High-performance blue and white LEDs
- Highly precise optics for exact light control
- Minimum heat development
- Ingress protection code IP66







# BLV NEPTURION LED systems

## Natural, vivid, efficient.

**BLV LED systems** are the latest members of the NEPTURION family. They have been developed based on most recent scientific findings and in cooperation with leading fishkeeping experts. Their great advantages over conventional fishkeeping lighting solutions are:

- Optional multi-channel control making it possible to realistically represent natural lighting conditions
- Complex natural processes like sunrise, sunset or cloudiness can be imitated
  - Creation of completely new lighting atmospheres

Rather than just bank on effect lighting, our new LED systems can therefore be perfectly used for biological fish and coral tanks.

## NEPTURION Ocean 5.1

- 5 LED light units
- High-performance blue and white LEDs
- Precise optics for exact light control
- Bright, vivid light for natural-looking effects
- Plastic case and clear seawater-resistant cap, ingress protection code IP67
- Highly resistant to external influences





## With our new **NEPTURION LED** solutions, you benefit from:

- Outstanding growing light for plants and corals
- A uniform light distribution
- Stable lumen and PAR maintenance over the whole lifetime
- No flickering after power-up and instantly full light as required
- High efficiency and eco-friendliness
- Contributing to the reduction of the carbon footprint

**And there is one benefit that will be noticeable in your wallet:** Reduced expenses due to this long-life, energy-saving technology.

## HEDRION DL 125 SR

- Semi-recessed downlights plus warm white HEDRION 40° reflector lamps
- Decorative corona effect with slightly lightened up ceilings
- High colour rendering
- Easy lamp change with QuickChange™ System



## HEDRION LB 315

- Suspended low-bay fitting plus neutral white HEDRION 40° reflector lamps
- Good colour rendering
- Easy lamp change with QuickChange™ System





# Highly efficient illumination – custom-built for indoor areas as well.

A colourful aquarium certainly calls for an appealing gastronomic zone as well as an inviting souvenir shop. Of course, BLV also offers professional lighting concepts for indoor areas – **starting from dynamic ambient lighting up to precise accent spots.**

## BLV HEDRION LED SYSTEM BENEFITS:

- An attractive range of recessed fix or adjustable downlights, semi-recessed downlights, track spotlights and suspended fixtures
- A variety of light colours (warm white and daylight white)
- High-quality dichroic glass reflectors with various radiation angles
- Easy to change with QuickChange™ System
- Extremely long lifetime of up to 60 000 hrs
- Dimmable (DALI models available)

# Enlighten the architecture with BLV SIGNION color.

BLV does not only light up the aquarium and the inner spaces of your fascinating underwater world, but also the building and its extraordinary architecture itself. Thanks to **SIGNION color** suitable for outdoor use, unique effects can be implemented.

## **BLV SIGNION COLOR'S BENEFITS:**

- Special colour accents
- High colour saturation
- Various colours and base types available
- Usable indoors and outdoors



BLV

## SIGNION color

70 – 1 000 W

- Wide colour palette
- Huge variety of models
- Illumination of architectural silhouettes



# BLV – your specialist **lighting solu**

## SHOW AND EFFECT TANKS

### NEPTURION

- Single-ended, easy to exchange
- Very good colour rendering (10 000 K)
- Available in cool white, aqua white or aqua blue for different colour temperature requirements
- Very high lifetime of up to 8 000 hrs



## CORAL TANKS

### NEPTURION

- Double-ended
- Very good colour rendering (10 000 K)
- Available in cool white, aqua white or aqua blue for different colour temperature requirements
- Extremely long durability of up to 10 000 hrs



## BIOLOGICAL TANKS

### NEPTURION LED

- 3 LED light units
- High-performance LEDs
- Highly precise optics
- Minimum heat development
- Ingress protection code IP66





# tions provider in fishkeeping:

## BREEDING TANKS

### NEPTURION LED

- 5 LED light units
- High-performance LEDs
- Highly precise optics
- Bright, vivid light for natural-looking effects
- Plastic case, ingress protection code IP67
- High resistivity



## INDOOR AREAS

### HEDRION

- LED lighting system flexible in use
- High-quality, easily exchangeable LEDs with dichroic glass reflectors
- Variety of light colours and radiation angles
- Attractive model range including downlights, spots and suspended fixtures



## OUTDOOR AREAS

### SIGNION color

- Wide colour palette
- High colour saturation
- Huge variety of models
- 70 – 1000 W
- Illumination of architectural silhouettes
- For indoor and outdoor use



# The optimal lighting – specialties & requirements.

The optimal light for an aquarium needs to meet certain demands. It should ...

...  
be perfectly geared to  
the type and depth of  
the water.

## REQUIREMENTS

...  
support the  
photosynthesis to  
encourage plant growth.

## APPLICATIONS

...  
guarantee excellent light  
output to let the aquarium,  
the fish, the corals and  
the vegetation shine in  
all their glory.

## ADVANTAGES

## Product overview **NEPTURION**



NEPTURION HIT E40 1000 W



NEPTURION HIT-DE 250 W



NEPTURION LED Ocean 3.1



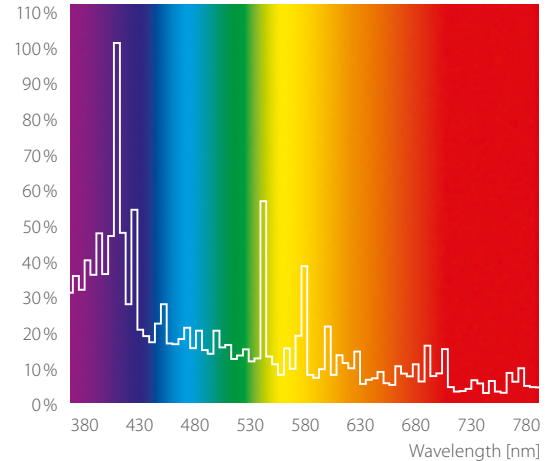
NEPTURION LED Ocean 5.1

# NEPTURION

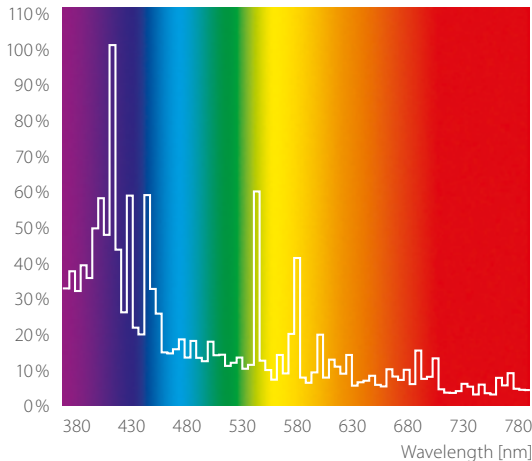
## Spectral distribution.

When it comes to fishkeeping, spectral distribution, lighting intensity and duration play an important role. BLV, your professional lighting specialist with aquaristic expertise provides you with optimal all-round solutions.

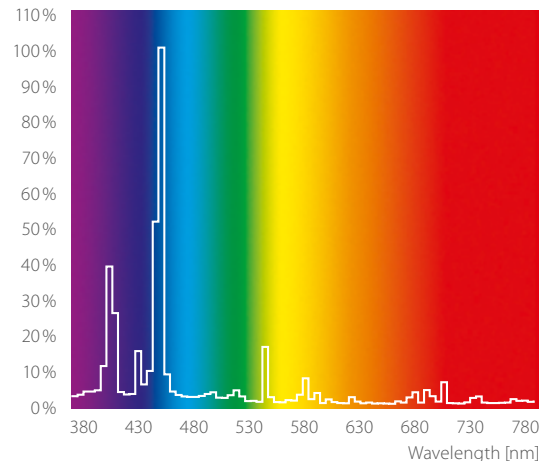
Light colour cold white, cw, 7 000 K – 12 000 K



Light colour aqua white, aw, 12 000 K – 16 000 K



Light colour aqua blue, ab, 20 000 K +



Article no.	Designation	IP code	Length [mm]	Width [mm]	Height [mm]	Weight [kg]	Safety class	Number of LED light units	Voltage range [VAC]	Nominal power consumption [W]	Current draw [A]
<b>NEPTURION LED fittings</b>											
46905291	NEPTURION LED Ocean 2.1	IP65	513.0	66.0	69.0	2.5	SC I	2	198-264	45	0.2
46901391	NEPTURION LED Ocean 3.1	IP66	356.0	224.0	134.5	4.7	SC I	3	198-264	66	0.3
46907491	NEPTURION LED Ocean 4.1	IP67	1283.0	168.0	114.0	4.1	SC II	4	180-528	68	0.3
46907591	NEPTURION LED Ocean 5.1	IP67	1283.0	168.0	114.0	4.4	SC II	5	180-528	85	0.4
46907691	NEPTURION LED Ocean 6.1	IP67	1583.0	168.0	114.0	4.9	SC II	6	180-528	102	0.45
46907791	NEPTURION LED Ocean 7.1	IP67	1583.0	168.0	114.0	5.2	SC II	7	180-528	118	0.52

Article no.	Designation	Base	Ø [mm]	Length [mm]	LCL [mm]	Burning position	Ignition voltage [kV]	Lamp current [A]	Nominal lamp power [W]	Rated lamp power [W]	Nominal luminous flux [lm]
<b>NEPTURION / SIGNION metal halide lamps G12 (single-ended)</b>											
225619	HIT 70sr dw G12	G12	19.5	88.0	46.0	u360	4	0.9	70	75	6500
224772	HIT 70r cw G12	G12	19.5	99.0	56.0	u360	4	0.9	70	75	3100
225604	HIT 70r cw G12	G12	19.5	99.0	56.0	u360	4	0.9	70	75	3100
226223	HIT 150 dw G12	G12	23.0	99.0	56.0	u360	4	1.8	150	150	11000
226904	HIT 150 dw G12	G12	23.0	99.0	56.0	u360	4	1.8	150	150	11000
226224	HIT 150 cw G12	G12	23.0	99.0	56.0	u360	4	1.8	150	150	7500
225204	HIT 150 cw G12	G12	23.0	99.0	82.0	u360	4	1.8	150	150	7000
<b>NEPTURION / SIGNION metal halide lamps E40 (single-ended)</b>											
227011	HIT 250 dw E40	E40	47.0	225.0	150.0	u360	4	3	250	250	20000
227021	HIT 250 cw E40	E40	47.0	225.0	150.0	u360	4	3	250	250	11000
227041	HIT 250 aw E40	E40	47.0	225.0	150.0	u360	4	3	250	250	11000
227051	HIT 250 ab E40	E40	47.0	225.0	150.0	u360	4	3	250	250	5400
227071	HIT 250 16K E40	E40	47.0	225.0	150.0	u360	4	3	250	250	5500
227111	HIT 400 dw E40	E40	47.0	275.0	175.0	u360	4	4	400	400	32000
227121	HIT 400 cw E40	E40	47.0	275.0	175.0	u360	4	4	400	400	18500
227141	HIT 400 aw E40	E40	47.0	275.0	175.0	u360	4	4	400	400	18500
227151	HIT 400 ab E40	E40	47.0	275.0	175.0	u360	4	4	400	400	8000
227171	HIT 400 16K E40	E40	47.0	275.0	175.0	u360	4	4	400	400	9000
227311	HIT 1000 dw E40	E40	76.0	340.0	220.0	p60	4	9.5	1000	1000	80000
227321	HIT 1000 cw E40	E40	76.0	340.0	220.0	p60	4	9.5	1000	1000	50000
227341	HIT 1000 aw E40	E40	76.0	340.0	220.0	p60	4	9.5	1000	1000	46000
227351	HIT 1000 ab E40	E40	76.0	340.0	220.0	p60	4	9.5	1000	1000	22000

Nominal luminous flux [lm]	PAR [ $\mu\text{mol/s}$ ]	Ambient temperature for max. luminous flux [ $^{\circ}\text{C}$ ]	Colour temperature [K]	Colour temperature [descr.]	Colour rendering index Ra / Colour rendering level	Nominal service life [h]
2 800	52	25 $^{\circ}\text{C}$	14 000	aqua white	-	50 000
4 200	80	25 $^{\circ}\text{C}$	14 000	aqua white	-	50 000
4 200	80	25 $^{\circ}\text{C}$	14 000	aqua white	-	50 000
5 200	100	25 $^{\circ}\text{C}$	14 000	aqua white	-	50 000
6 250	120	25 $^{\circ}\text{C}$	14 000	aqua white	-	50 000
7 300	140	25 $^{\circ}\text{C}$	14 000	aqua white	-	50 000

Rated luminous flux [lm]	Ambient temperature for max. luminous flux [ $^{\circ}\text{C}$ ]	Rated lamp efficacy [lm/W]	Mercury content [mg]	Colour temperature [K]	Colour temperature [descr.]	Colour rendering index Ra / Colour rendering level	Nominal service life [h]	Weighted energy consumption [kWh/1 000 h]	Energy efficiency class
6 500	25 $^{\circ}\text{C}$	86.7	9.5	5 200	daylight white	Ra80-89/1B	6 000	83	A+
3 100	25 $^{\circ}\text{C}$	44.3	13.5	8 800	cold white	Ra>90/1A	6 000	83	B
3 100	25 $^{\circ}\text{C}$	44.3	13.5	10 000	cold white	Ra80-89/1B	6 000	83	B
11 000	25 $^{\circ}\text{C}$	73.3	20.0	5 200	daylight white	Ra80-89/1B	6 000	165	A
11 000	25 $^{\circ}\text{C}$	73.3	9.5	6 500	daylight white	Ra80-89/1B	6 000	165	A
7 500	25 $^{\circ}\text{C}$	50.0	16.5	8 800	cold white	Ra>90/1A	6 000	165	B
7 000	25 $^{\circ}\text{C}$	46.7	16.5	10 000	cold white	Ra>90/1A	6 000	165	B
20 000	25 $^{\circ}\text{C}$	80.0	20.5	5 200	neutral white	Ra>90/1A	8 000	275	A
11 000	25 $^{\circ}\text{C}$	44.0	33.2	10 000	cold white	Ra80-89/1B	10 000	275	B
11 000	25 $^{\circ}\text{C}$	44.0	35.0	14 000	aqua white	-	8 000	275	B
5 400	25 $^{\circ}\text{C}$	21.6	35.0	20 000+	aqua blue	-	10 000	275	C
5 500	25 $^{\circ}\text{C}$	22.0	30.0	16 000	aqua white	-	8 000	275	B
32 000	25 $^{\circ}\text{C}$	80.0	29.5	5 200	neutral white	Ra80-89/1B	8 000	440	A
18 500	25 $^{\circ}\text{C}$	46.3	52.0	10 000	cold white	Ra80-89/1B	12 000	440	B
18 500	25 $^{\circ}\text{C}$	46.3	52.0	14 000	aqua white	-	8 000	440	B
8 000	25 $^{\circ}\text{C}$	20.0	60.0	20 000+	aqua blue	-	8 000	440	C
9 000	25 $^{\circ}\text{C}$	22.5	55.0	16 000	aqua white	-	8 000	440	C
80 000	25 $^{\circ}\text{C}$	80.0	35.0	6 000	neutral white	Ra>90/1A	6 000	1 100	A
50 000	25 $^{\circ}\text{C}$	50.0	52.0	10 000	cold white	Ra80-89/1B	4 000	1 100	B
46 000	25 $^{\circ}\text{C}$	46.0	52.0	14 000	aqua white	-	4 000	1 100	B
22 000	25 $^{\circ}\text{C}$	22.0	57.0	20 000+	aqua blue	-	8 000	1 100	C

Article no.	Designation	Base	Ø [mm]	Length [mm]	LCL [mm]	Burning position	Ignition voltage [kV]	Lamp current [A]	Nominal lamp power [W]	Rated lamp power [W]	Nominal luminous flux [lm]
<b>NEPTURION / SIGNION / STATURION metal halide lamps RX7s, Fc2/18, cable (double-ended)</b>											
220604	HIT-DE 70 dw RX7s	RX7s	20.0	114.2	-	p45	4	0.9	70	75	5 500
220204	HIT-DE 70 cw RX7s	Rx7s	20.0	114.2	-	p45	4	0.9	70	75	3 100
220501	HIT-DE 70 cw RX7s	RX7s	20.0	114.2	-	p45	4	0.9	70	75	3 100
220504	HIT-DE 70 cw RX7s UVP	RX7s	20.0	114.2	-	p45	4	0.9	70	75	3 100
220104	HIT-DE 70 aw RX7s	RX7s	20.0	114.2	-	p45	4	0.9	70	75	3 100
220001	HIT-DE 70 ab RX7s	RX7s	20.0	114.2	-	p45	4	0.9	70	75	1 700
221704	HIT-DE 150 dw RX7s	RX7s-24	23.0	132.0	-	p45	4	1.8	150	150	13 000
221204	HIT-DE 150 cw RX7s	RX7s-24	23.0	132.0	-	p45	4	1.8	150	150	7 000
221301	HIT-DE 150 cw RX7s	RX7s-24	23.0	132.0	-	p45	4	1.8	150	150	7 000
221801	HIT-DE 150 aw RX7s	RX7s-24	23.0	132.0	-	p45	4	1.8	150	150	6 800
221001	HIT-DE 150 16K RX7s	RX7s-24	23.0	132.0	-	p45	4	1.8	150	150	6 600
221901	HIT-DE 150 ab RX7s	RX7s-24	23.0	132.0	-	p45	4	1.8	150	150	3 000
222403	HIT 250 cw Fc2	Fc2/18	25.0	139.0	-	p45	4	3	250	250	10 500
222404	HIT 250 cw Fc2 UVP	Fc2/18	25.0	139.0	-	p45	4	3	250	250	10 500
222603	HIT 250 aw Fc2/18	Fc2/18	25.0	139.0	-	p45	4	3	250	250	10 600
222803	HIT 250 16K Fc2/18	Fc2/18	25.0	139.0	-	p45	4	3	250	250	10 000
222703	HIT 250 ab Fc2/18	Fc2/18	25.0	139.0	-	p45	4	3	250	250	5 000
131100	HIT-DE sa 1000 dw	cable	28.0	187.0	-	p15	4	10.3	1 000	1 000	90 000
131200	HIT-DE sa 2000 dw	cable	40.0	187.0	-	p15	4	10.3	2 000	2 000	200 000
131201	HIT-DE sa 2000 cw	cable	40.0	187.0	-	p15	4	10.3	2 000	2 000	140 000

Rated luminous flux [lm]	Ambient temperature for max. luminous flux [°C]	Rated lamp efficacy [lm/W]	Mercury level [mg]	Colour temperature [K]	Colour temperature [descr.]	Colour rendering index Ra / Colour rendering level	Nominal service life [h]	Weighted energy consumption [kWh/1 000 h]	Energy efficiency class
5 500	25 °C	73.3	9.5	5 200	daylight white	Ra70-79/2 A	13 000	83	A
3 100	25 °C	41.3	13.5	8 800	cold white	Ra>90/1 A	13 000	83	B
3 100	25 °C	44.3	13.5	10 000	cold white	Ra80-89/1 B	10 000	83	B
3 100	25 °C	44.3	13.5	10 000	cold white	Ra80-89/1 B	10 000	83	B
3 100	25 °C	44.3	13.5	14 000	aqua white	n.a.	10 000	83	B
1 700	25 °C	24.3	18.0	20 000+	aqua blue	n.a.	10 000	83	C
13 000	25 °C	86.7	12.0	5 200	daylight white	Ra80-89/1 B	13 000	165	A
7 000	25 °C	46.7	16.5	8 800	cold white	Ra>90/1 A	13 000	165	B
7 000	25 °C	46.7	16.5	10 000	cold white	Ra>90/1 A	10 000	165	B
6 800	25 °C	45.3	16.5	14 000	aqua white	n.a.	10 000	165	B
6 600	25 °C	44.0	49.5	16 000	aqua white	n.a.	10 000	165	B
3 000	25 °C	20.0	18.0	20 000+	aqua white	n.a.	10 000	165	C
10 500	25 °C	42.0	33.2	10 000	cold white	Ra80-89/1 B	10 000	275	B
10 500	25 °C	42.0	33.2	10 000	cold white	Ra80-89/1 B	10 000	275	B
10 600	25 °C	42.4	35.0	14 000	aqua white	n.a.	6 000	275	B
10 000	25 °C	40.0	33.0	16 000	aqua white	n.a.	6 000	275	B
5 000	25 °C	20.0	30.0	20 000+	aqua blue	n.a.	6 000	275	C
90 000	25 °C	90.0	365.0	6 300	daylight white	Ra>90/1 A	6 000	1 100	A+
200 000	25 °C	100.0	365.0	6 300	daylight white	Ra>90/1 A	6 000	2 200	A+
140 000	25 °C	70.0	320.0	8 000	cold white	Ra80-89/1 B	2 000	2 200	A

# About BLV.

## Your partner in lighting solutions.

BLV is your competent partner for both general and special lighting applications. With over 40 years of experience, we provide high-quality lighting solutions. BLV researches, develops and manufactures directly in Germany and can therefore respond quickly and flexibly to your individual needs. Under the umbrella of the world-renowned specialty manufacturer USHIO with an annual turnover of 1.5 billion euros, we are a company you can rely on. We were the first lamp manufacturer worldwide to be certified by ISO 9001 for our quality management. This certification guarantees best quality and products which are oriented to your needs.

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**GERMAN  
ENGINEERING**



Immer im besten Licht. **BLV** 