

EVA

LED underwater
lighting



Introducing EVA LED Underwater Lighting

Specialists in illuminating experiences

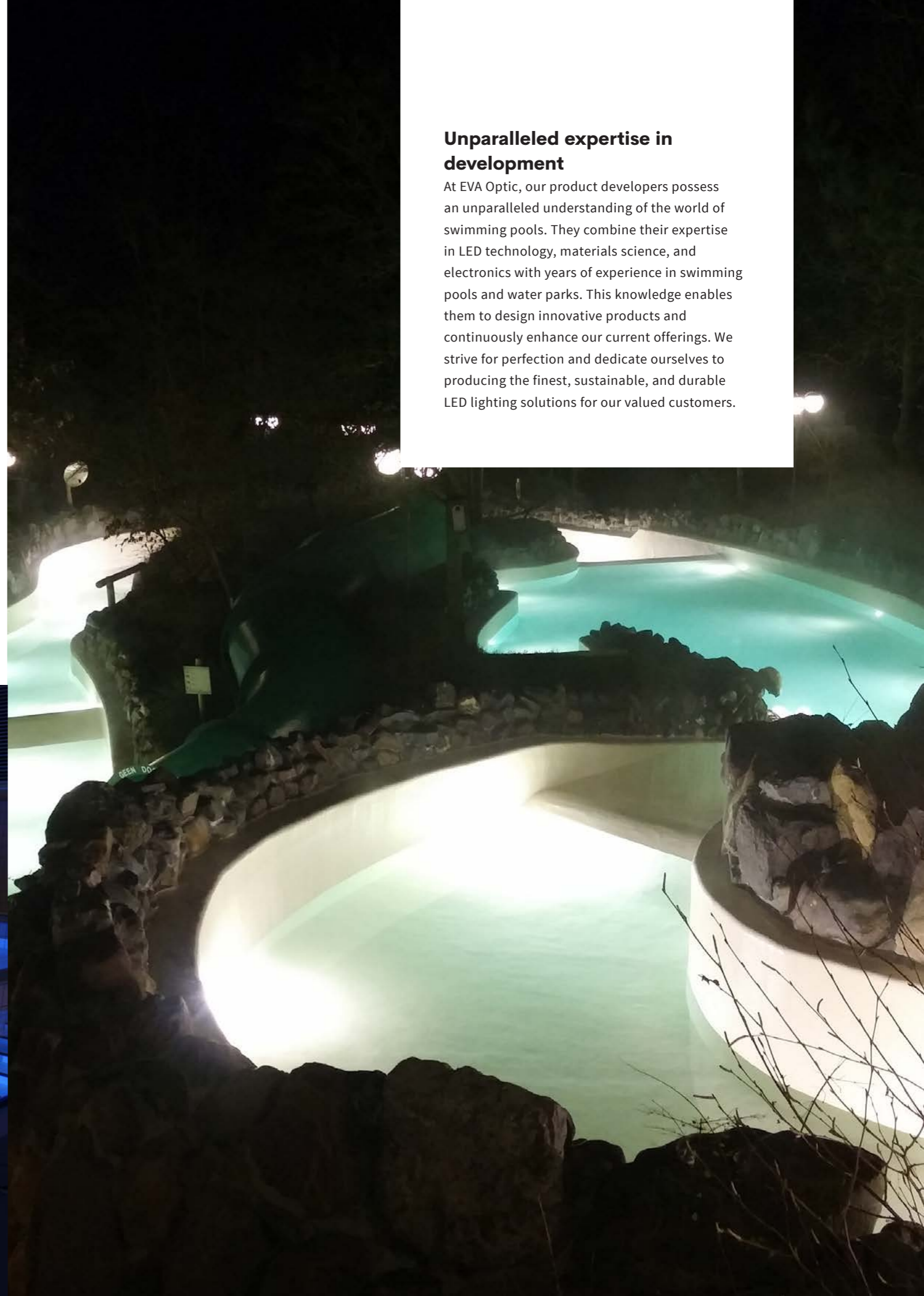
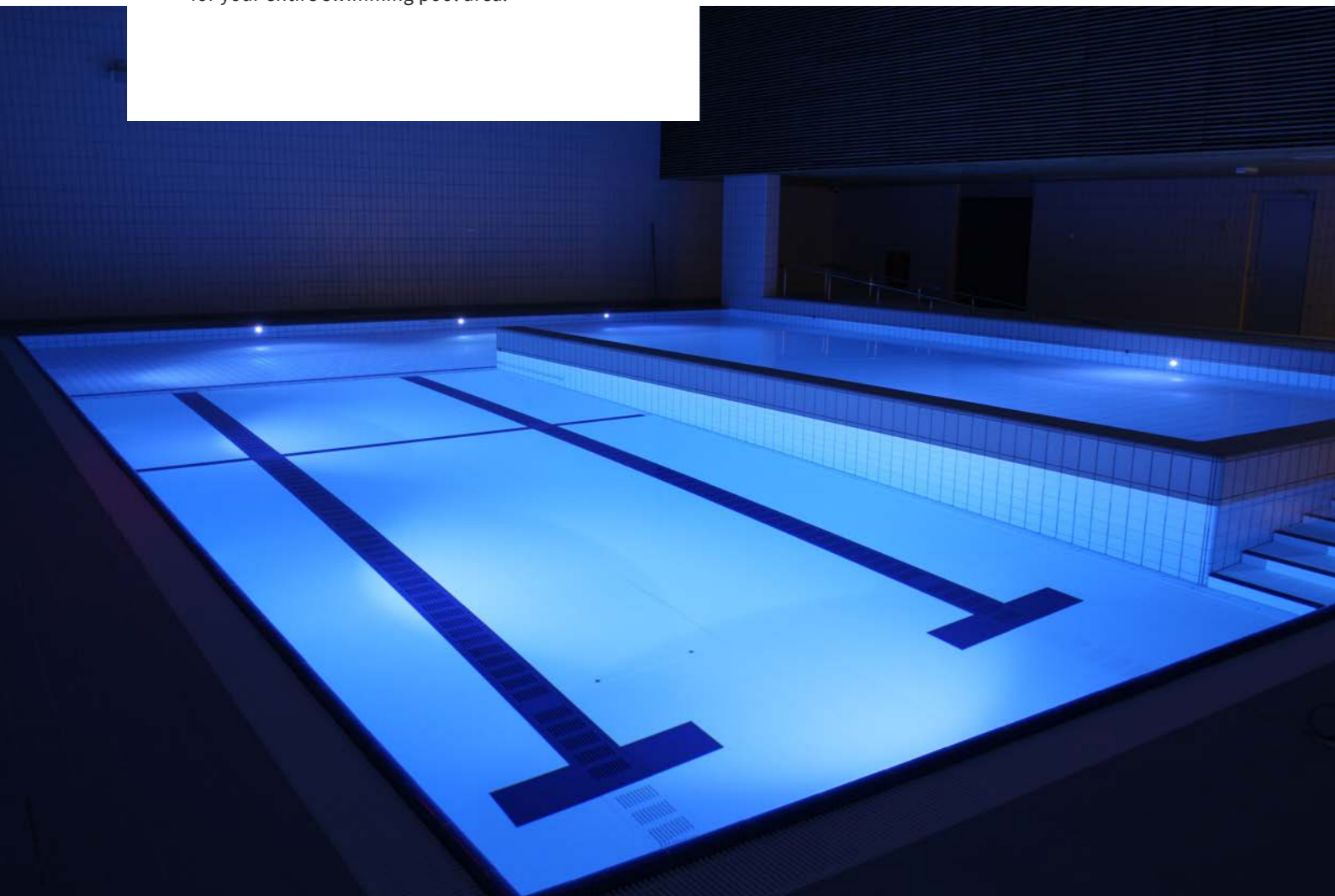
When it comes to lighting systems, few environments impose greater challenges than swimming pools. The effects of heat, moisture, and chlorine on lighting are often overlooked. At EVA Optic, we recognize these influential factors and have developed high-quality LED underwater lighting that is specifically designed to thrive in this demanding environment. Our focus is on delivering long-term, trouble-free performance.

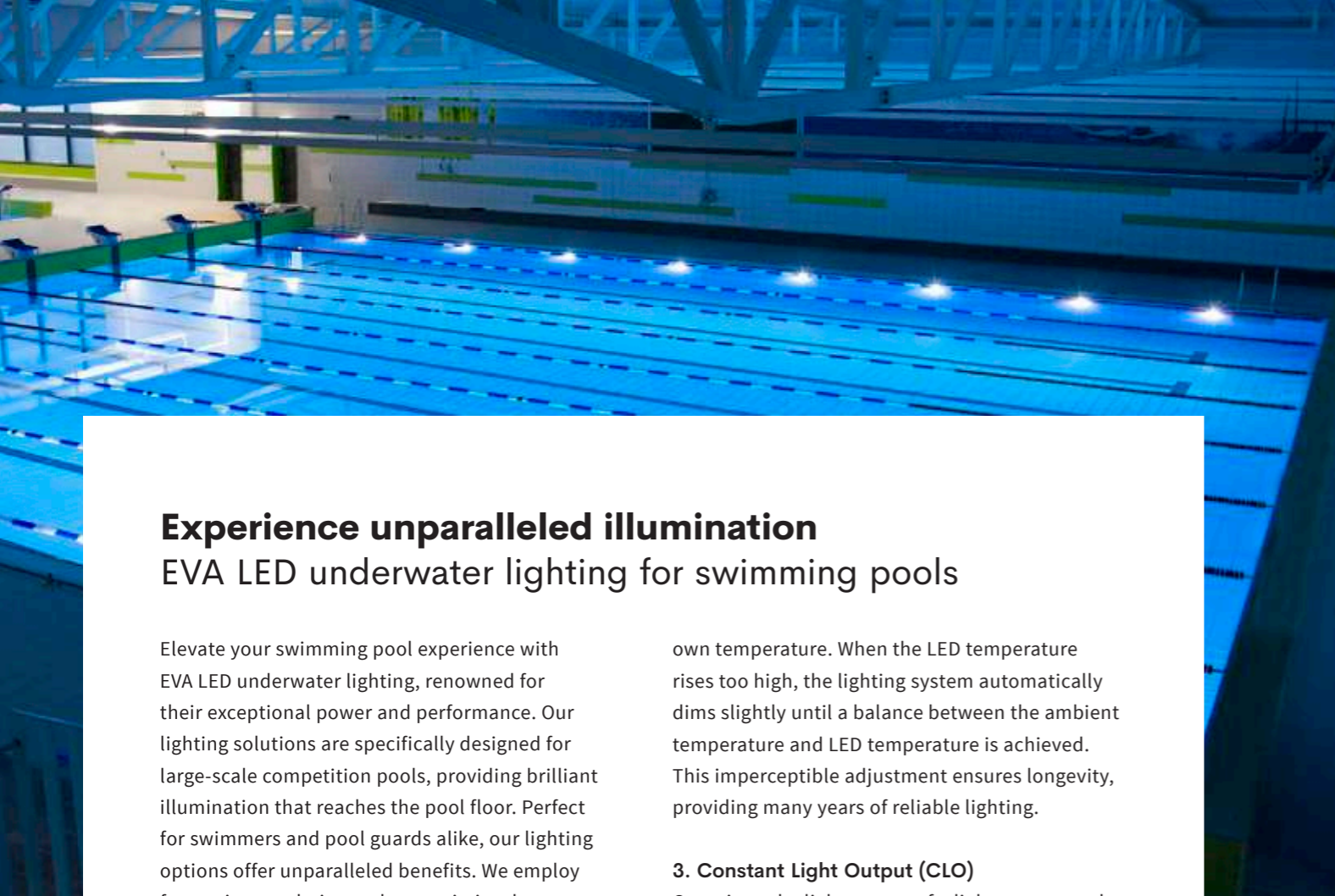
For more than ten years, we have been recognized as the leading experts in professional LED swimming pool lighting. Our extensive range of products showcases powerful, reliable, and energy-efficient solutions, all crafted with exceptional design to ensure optimal functionality in any swimming pool setting. Whether it's a public pool, a water park such as Center Parcs, or a private pool, we specialize in creating powerful and atmospheric LED lighting for your entire swimming pool area.

"For over a decade, EVA Optic has held the position of being the foremost expert in professional LED swimming pool lighting."

Unparalleled expertise in development

At EVA Optic, our product developers possess an unparalleled understanding of the world of swimming pools. They combine their expertise in LED technology, materials science, and electronics with years of experience in swimming pools and water parks. This knowledge enables them to design innovative products and continuously enhance our current offerings. We strive for perfection and dedicate ourselves to producing the finest, sustainable, and durable LED lighting solutions for our valued customers.





Experience unparalleled illumination

EVA LED underwater lighting for swimming pools

Elevate your swimming pool experience with EVA LED underwater lighting, renowned for their exceptional power and performance. Our lighting solutions are specifically designed for large-scale competition pools, providing brilliant illumination that reaches the pool floor. Perfect for swimmers and pool guards alike, our lighting options offer unparalleled benefits. We employ four unique techniques that maximize the lifespan of our LED underwater lighting:

1. Water Cooled Underwater Lighting

At EVA Optic, our LED underwater lighting is water cooled at the back of the lamp. The entire lamp is sealed with a thermal resin, ensuring efficient operation and an extended lifespan. The luminaire and electronics, including the driver and power supply, are separate from the lamp and housed in a dry room. Control options include DMX (RGBW) or 0-10 Vdc (Mono).

2. Auto Temperature System (ATS)

To withstand the high temperatures found in swimming pools, we have developed the Auto Temperature System (ATS). This innovative technology allows the luminaire to regulate its

own temperature. When the LED temperature rises too high, the lighting system automatically dims slightly until a balance between the ambient temperature and LED temperature is achieved. This imperceptible adjustment ensures longevity, providing many years of reliable lighting.

3. Constant Light Output (CLO)

Over time, the light output of a light source tends to diminish. To counter this, we utilize Constant Light Output (CLO). This driver functionality ensures a consistent light output throughout the entire lifespan of the product. Combined with ATS, CLO optimizes the usage of the available LED output.

4. Intelligent Power Control (IPC)

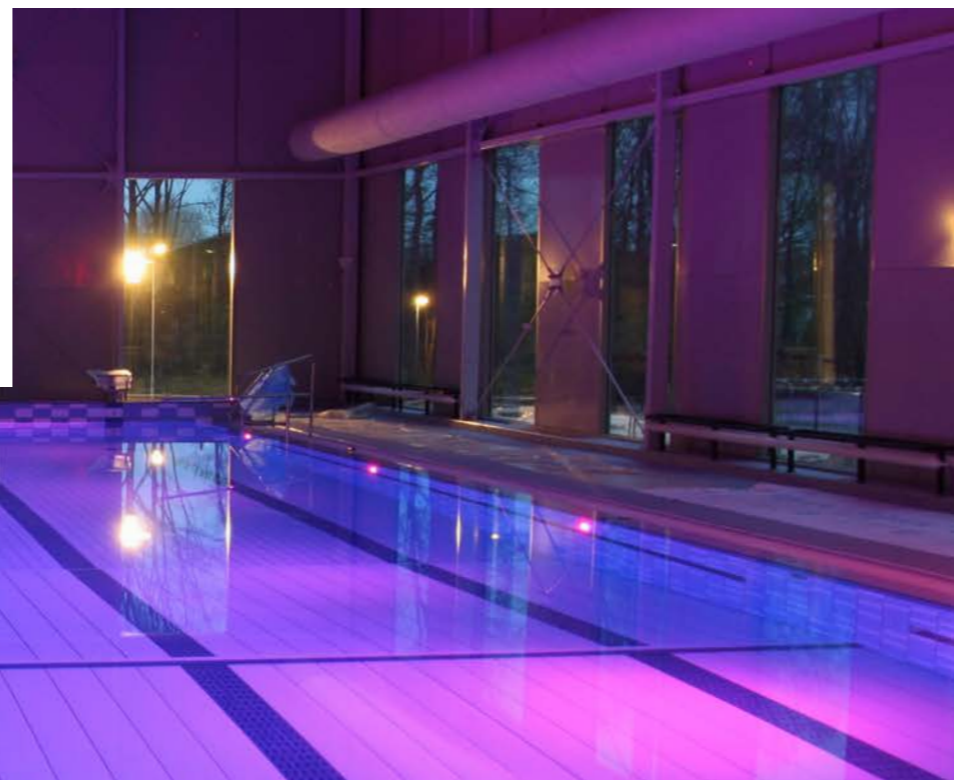
Our Intelligent Power Control (IPC) technology eliminates light loss and maintains a constant light output for our multi-colored RGBW lighting solutions. IPC ensures that each color or combination always utilizes 100% of the available power. By distributing the current only to the working LEDs instead of all the LEDs in the lamp, we achieve maximum efficiency.

Safety is Paramount

Complying with stringent national and international safety standards for electrical safety and material use in swimming pools and water parks, EVA Optic LED swimming pool lighting is specially developed for trouble-free, long-term usage in such environments. Our LED pool lights meet all relevant international safety standards, including NEN NPR 9200:2015 and IEC EN 60598-2-18 for electrical safety and waterproofing.

Backed by a 4-Year Warranty

With a proven track record of exceptional quality, we proudly offer a 4-year warranty on our underwater lighting solutions.



Transform Your Pool Ambiance

EVA underwater lights are versatile, suitable for both public and residential pools. They add a captivating ambiance to any pool, creating a stunning atmosphere both within and outside the water. Choose from single-color lights for a classic look or immerse yourself in a captivating experience with our magnificent RGBW multicolored lights. These lights combine powerful white and colored LEDs, offering an instant metamorphosis of colors in your pool.

EVA LED underwater lighting Exquisite In-House Production

From conception to realization, from prototypes to final products, our all-in approach encompasses every step of the process, all conducted in-house. At our production facility in Zwartsluis in the Netherlands, we engineer and manufacture high-quality, durable products tailored for demanding swimming and sports environments. We break free from the limitations imposed by conventional market practices, allowing us to deliver exceptional results.

Pushing Boundaries

We constantly push the boundaries of innovation, exploring new techniques to enhance the swimming experience. We integrate our discoveries into our production methods, enabling us to stay at the forefront of lighting technology. One notable example is our utilization of 3D printing, a groundbreaking technology that grants us unparalleled creative freedom for product design and prototyping.

Unparalleled Control

We strive for complete control over every aspect of the production process. Our in-house Pick & Place department produces our LED printed circuit boards and electronic components. These components undergo thorough scrutiny using the X-Ray machine, ensuring impeccable quality down to the individual parts. We prioritize delivering products of the highest caliber, allowing our customers to enjoy worry-free experiences for years to come.

“Our objective is to achieve a production process that aligns with the energy-saving performance of our products.”

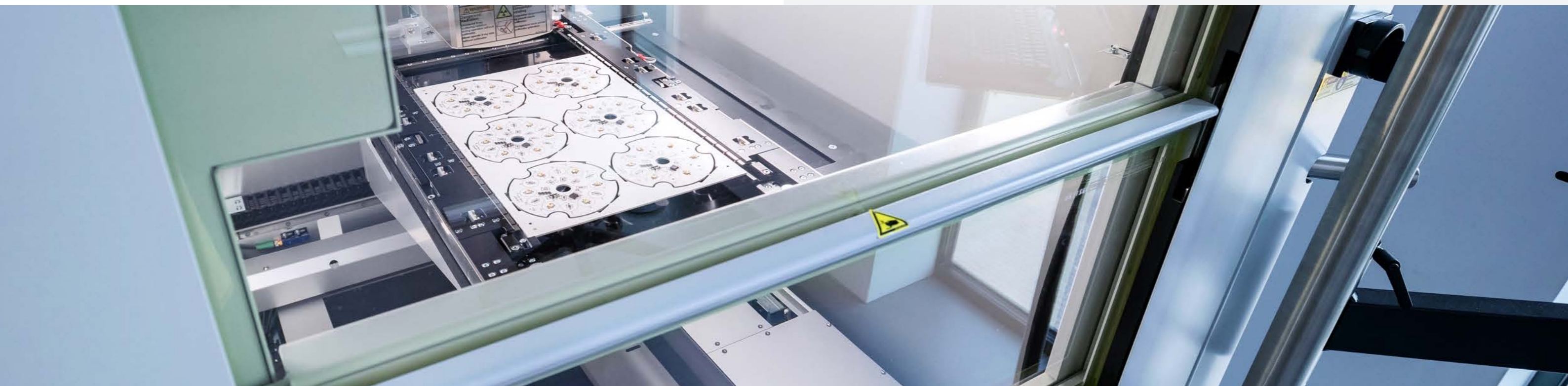


Maximum Efficiency

Significant investments have been made to expand our production facilities, not only to enhance product performance and efficiency, but also to optimize availability and delivery times of our components. By developing and manufacturing as much as possible in-house, we maintain stable pricing and make every effort to fulfill our commitments.

Environmental Stewardship

Throughout the entire production process, we are dedicated to minimizing our environmental footprint. Our ultimate goal is to design and create the finest and most reliable products without causing harm to the environment. We strive for a “clean” production process that aligns with the energy-saving capabilities of our products, ensuring sustainability every step of the way.



EVA LED underwater lighting

Embracing nature

We prioritize the well-being of our planet in every aspect of our work. Swimming pools and sports facilities are known for their substantial electricity consumption, with lighting being a major contributor. However, with our LED lighting solutions, our customers can achieve significant energy savings and reduce their CO2 emissions. Our commitment to durability and sustainability ensures that our products continue to save energy for years to come.

Throughout the entire production process, we take proactive measures to minimize our environmental impact. From product development to transportation, we collaborate with local suppliers in the Zwartsluis region, avoiding unnecessary CO2 emissions associated with long-distance transport. By embracing

our LED lighting solutions, our customers have collectively made substantial reductions in CO2 emissions. Furthermore, our focus on creating robust and sustainable products ensures that this reduction continues over the long term.

Recyclable Components

We prioritize sustainable product components and incorporate recyclable materials wherever possible, reducing waste to an absolute minimum.

Tiny Forest

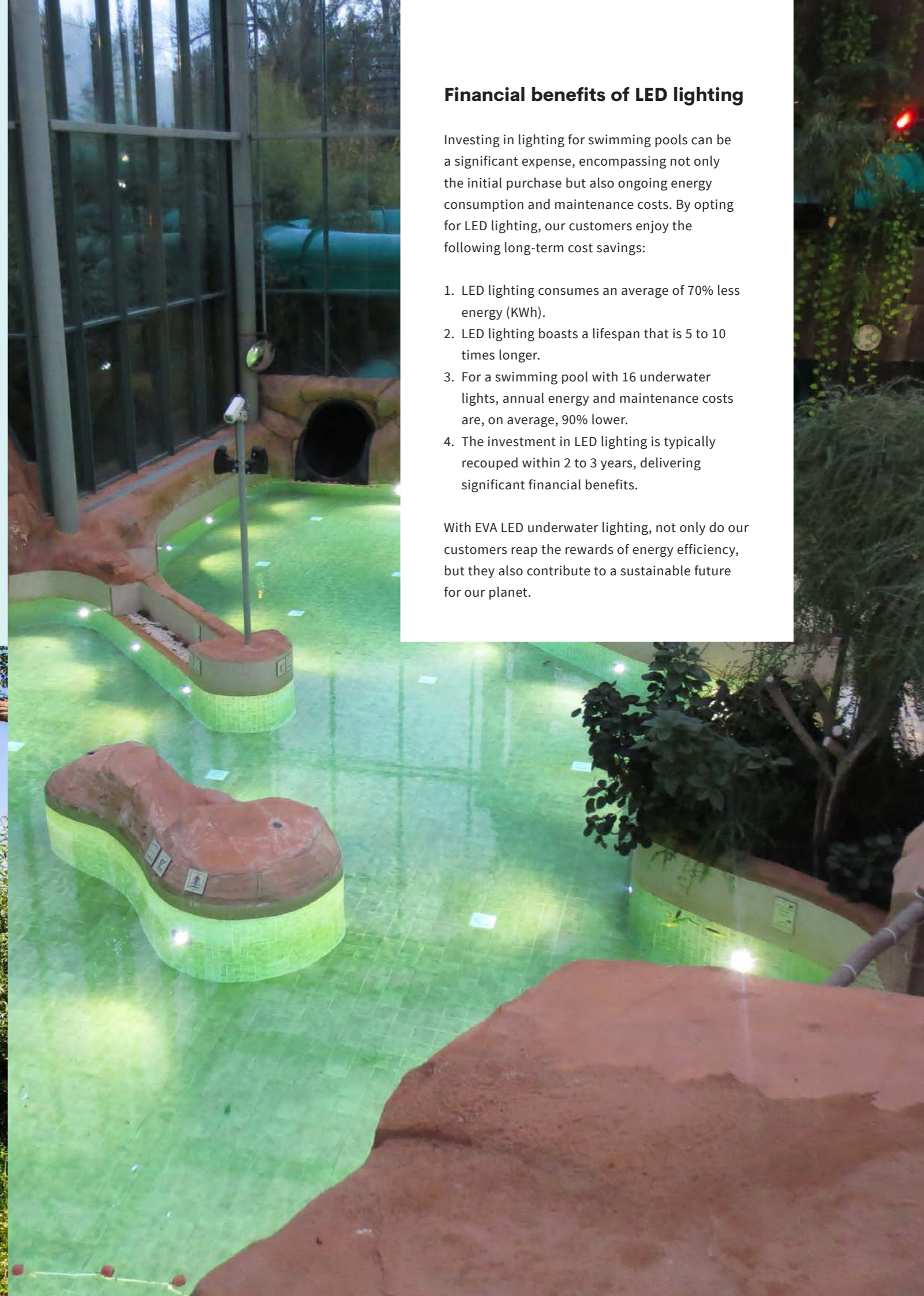
Recognizing the power of small actions, we have established a small forest at our EVA Optic site. This vibrant ecosystem serves as a haven for butterflies, birds, bees, small mammals, and humans alike.

Financial benefits of LED lighting

Investing in lighting for swimming pools can be a significant expense, encompassing not only the initial purchase but also ongoing energy consumption and maintenance costs. By opting for LED lighting, our customers enjoy the following long-term cost savings:

1. LED lighting consumes an average of 70% less energy (KWh).
2. LED lighting boasts a lifespan that is 5 to 10 times longer.
3. For a swimming pool with 16 underwater lights, annual energy and maintenance costs are, on average, 90% lower.
4. The investment in LED lighting is typically recouped within 2 to 3 years, delivering significant financial benefits.

With EVA LED underwater lighting, not only do our customers reap the rewards of energy efficiency, but they also contribute to a sustainable future for our planet.





“The SubAqua series collection of underwater lights offer 3 variants: 10W, 25W and a 40W/50W option.”

Satin or Microprism Cover Options

The SubAqua underwater lighting is offered in 10W, 25W mono and 10W, 25W RGBW variants, both featuring a satin cover. The satin covers are ideal for smaller pools that require even illumination throughout the entire area. For our most powerful models (40/50W), we have chosen microprism covers. These covers effectively distribute the light across larger and competitive pools, maximizing the potential of each light.

Exciting New Features

The SubAqua series boasts higher wattage compared to the A- or RX-series. Instead of 20W, it offers an enhanced 25W output. Additionally, we have reintroduced the 40W mono underwater light, available in beautiful bright white, warm white, and mediterranean light options.

EVA LED SubAqua series Introducing in 2023

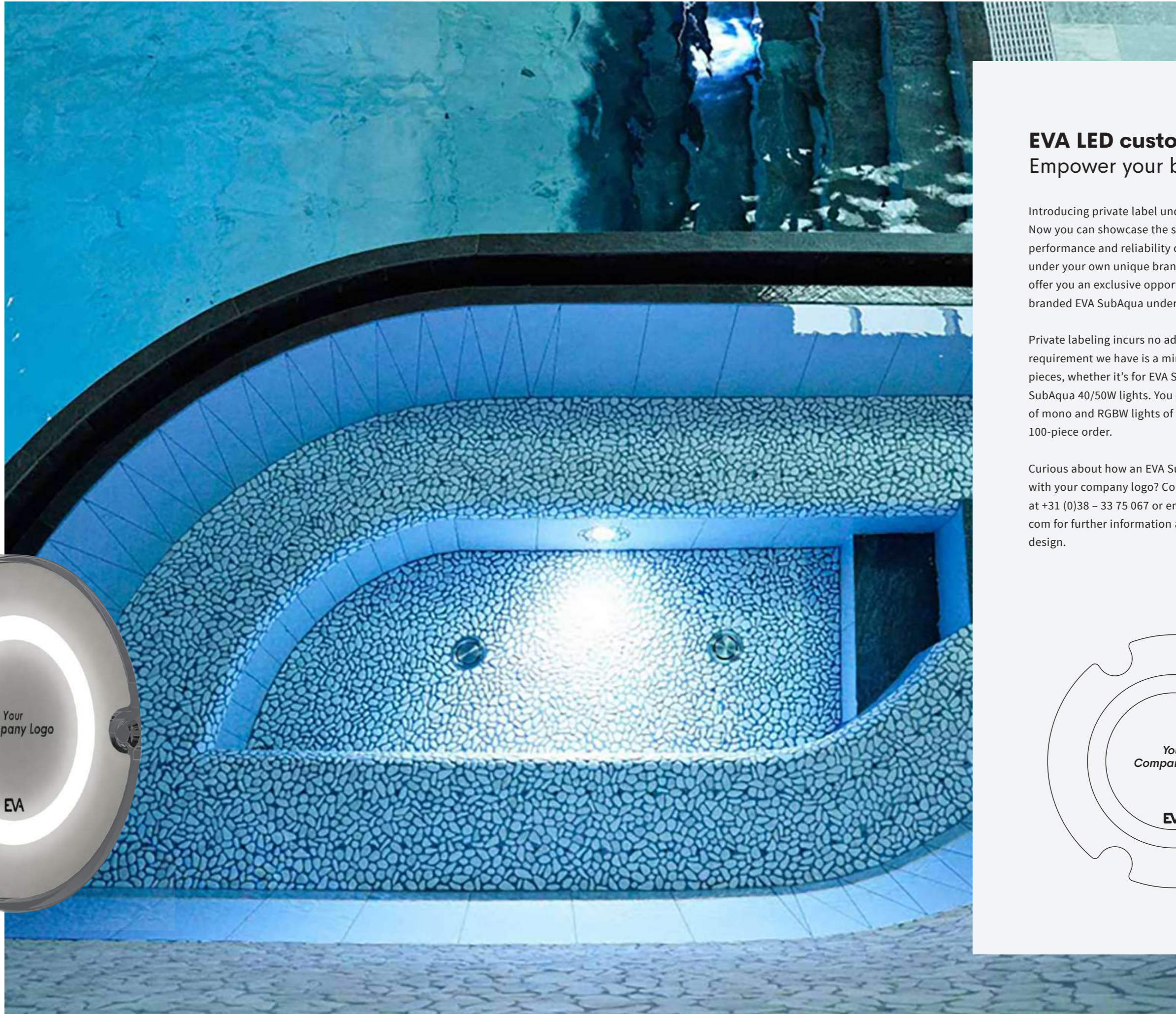
Our commitment to innovation sometimes requires us to make room for new versions that further enhance existing products or series. Over the past few years, we have simultaneously offered the A-series and RX-series underwater lights. By combining the strengths of both series, we proudly present our latest creation: the EVA SubAqua underwater lights.

The SubAqua series of underwater lighting are available from the beginning of 2023. This new range offers three variants: 10W, 25W and a 40W/50W model. Leveraging our expertise and utilizing the newest generation of high-efficiency power LEDs and premium materials, we have achieved a new level of quality in design.



NEW: Customized private label option

For orders of 100 pieces or more, we provide the opportunity to personalize the SubAqua underwater lights with your own custom logo. This exclusive option allows you to offer EVA LED underwater lights under your own private label. Discover more about this unique opportunity on the following page.



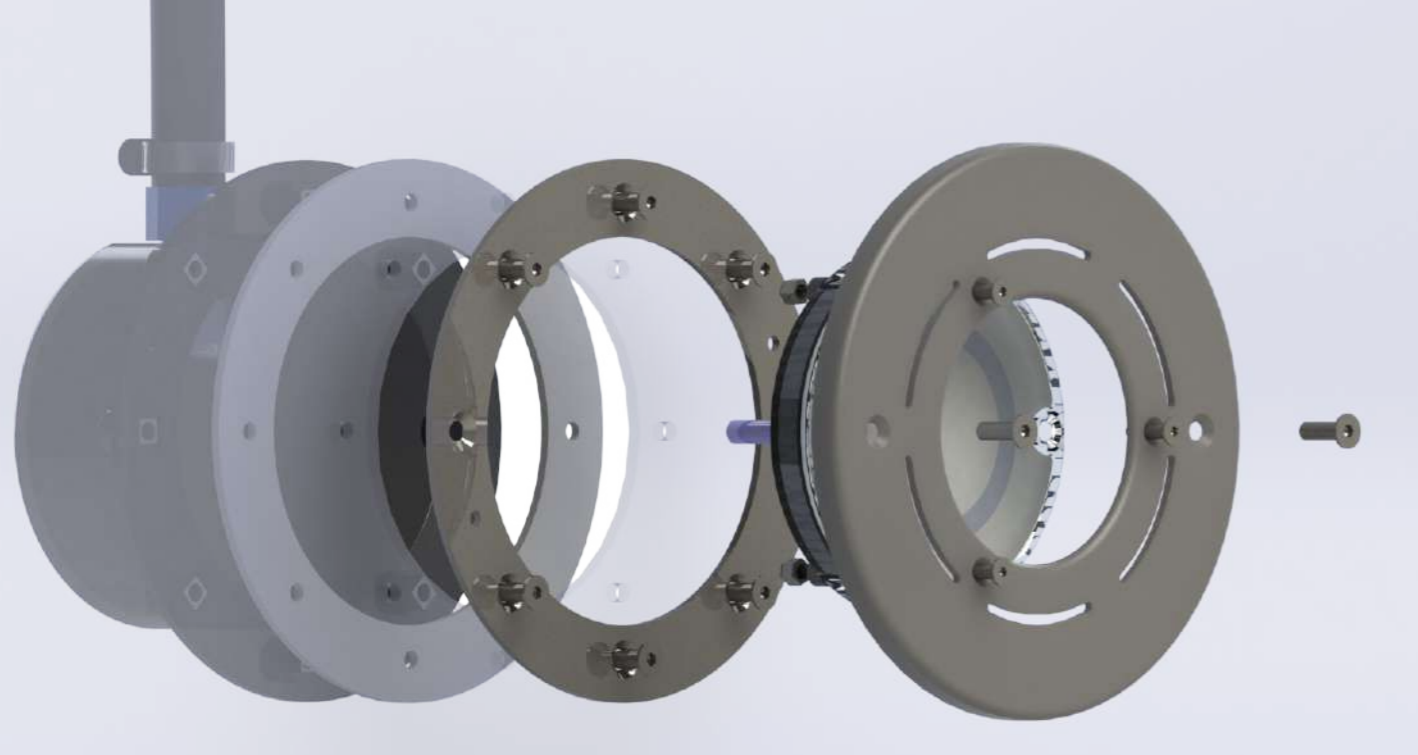
EVA LED customized Empower your brand

Introducing private label underwater lighting by EVA. Now you can showcase the same exceptional quality, performance and reliability of EVA's underwater lights under your own unique brand. Beginning in 2023, we offer you an exclusive opportunity to market custom-branded EVA SubAqua underwater lights.

Private labeling incurs no additional charges. The only requirement we have is a minimum order quantity of 100 pieces, whether it's for EVA SubAqua 25W lights or EVA SubAqua 40/50W lights. You can create a combination of mono and RGBW lights of the same wattage for your 100-piece order.

Curious about how an EVA SubAqua light would appear with your company logo? Contact our sales department at +31 (0)38 – 33 75 067 or email us at sales@evaoptic.com for further information and to request a sample design.





EVA LED underwater lighting Components

1 EVA LED underwater lighting



SubAqua 25W MONO
satin cover

*warm white, clear white
or mediterranean*



SubAqua 25W RGBW
satin cover

*multicolour warm white
or multicolour clear white*



SubAqua 40W MONO
microprism cover

*warm white, clear white
or mediterranean*



SubAqua 50W RGBW
microprism cover

*multicolour warm white
or multicolour clear white*

2 EVA LED power supply unit (PSU)



PSU
for 25W MONO



PSU
for 25W RGBW



PSU
for 40W MONO



PSU
for 50W RGBW

3 EVA LED installation niche



Installation niche
for all pools

*ABS and SS316 coverplate
fits on this niche*



Installation niche
for tiled pools

*only SS316 coverplate fits
on this niche*



Installation niche
for surface mounting

No coverplate needed

4 EVA LED cover plate



Cover plate
Stainless steel (SS316)



Cover plate
ABS anthracite



Cover plate
ABS silver grey

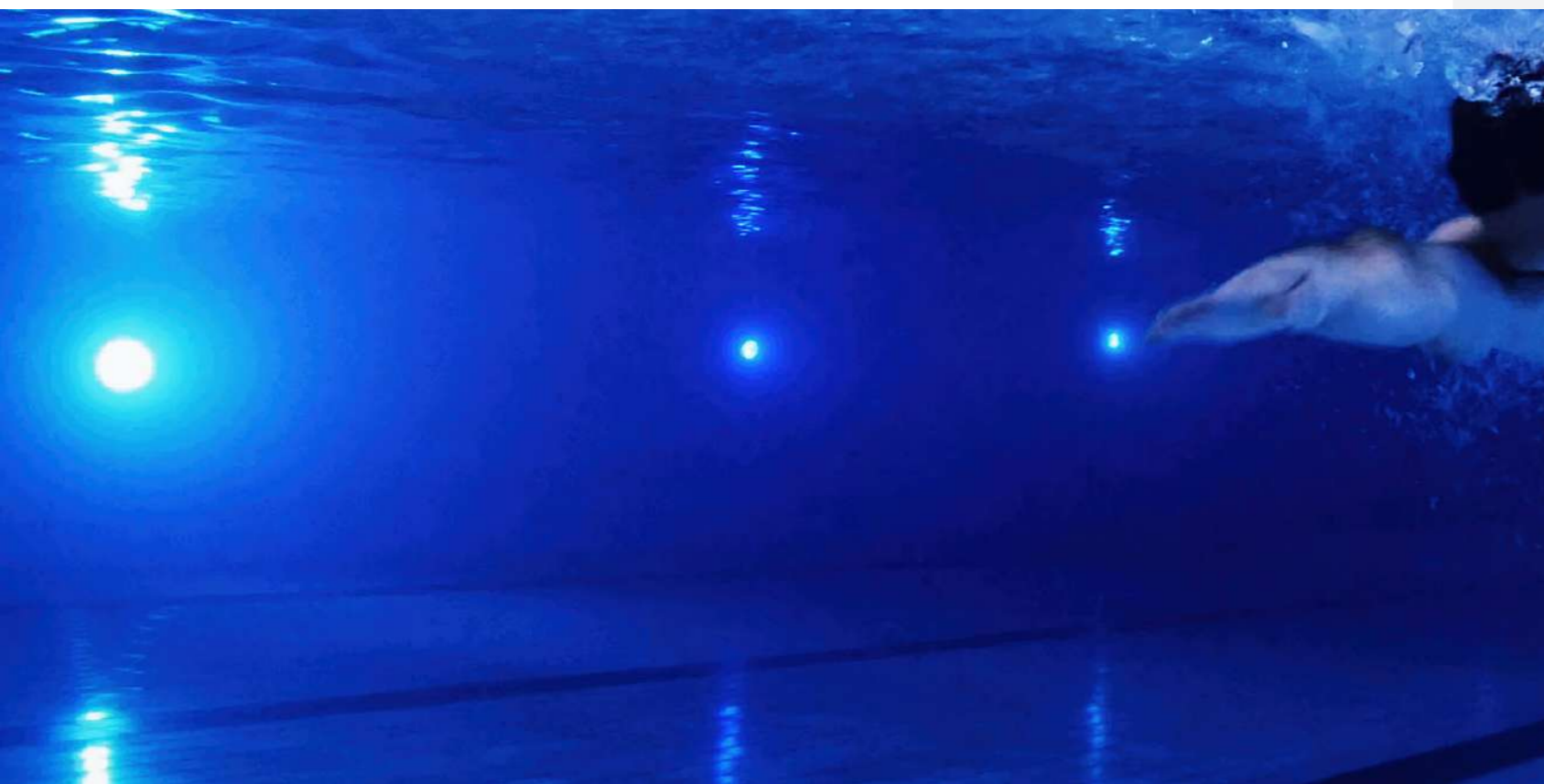


Cover plate
ABS white

An EVA SubAqua underwater lamp is typically mounted in the pool wall, utilizing an installation niche. In some cases, an installation niche may already be present. Along with our own niche, EVA SubAqua underwater lighting can also be installed in many niches from other brands using a suitable cover plate. Our team can provide guidance on selecting the appropriate cover plate for the niches in your pool.



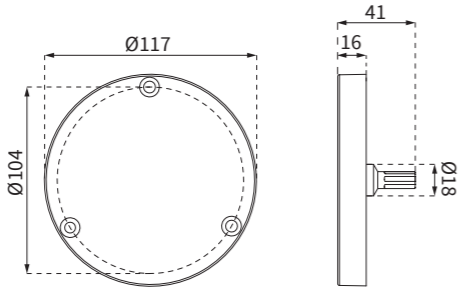
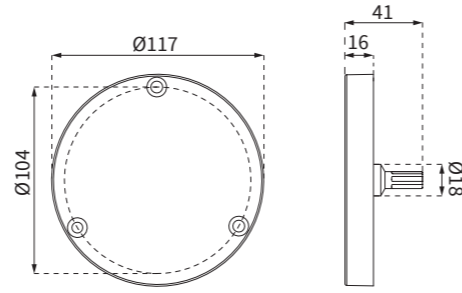
Each EVA LED underwater light comes with a separate power supply unit (PSU), which should be installed outside of the pool in a dry area. Please refer to the installation guidelines for specific instructions. The installation niche and cover plate are optional, as is the choice of control unit for the lighting system.

The EVA SubAqua series is designed based on our well-established A-series underwater lights. All existing accessories compatible with the A-series (and the RX-series) can also be used with the new EVA SubAqua series.





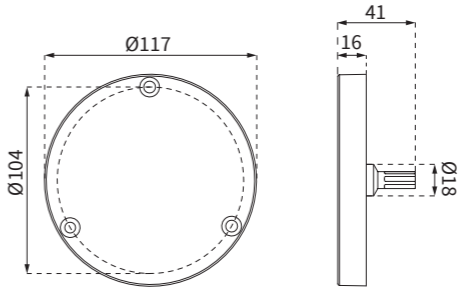
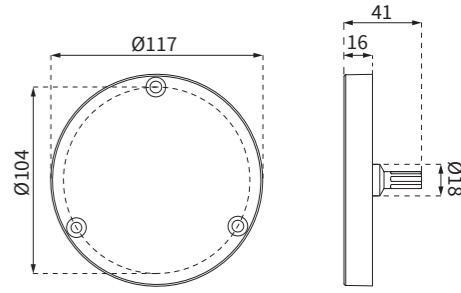
EVA LED underwater lighting SubAqua series

SubAqua 25W

Type of light	 SubAqua 25W MONO	 SubAqua 25W RGBW
Type of cover	Satin cover	Satin cover
Type of LEDs	6x high power mono LEDs	6x high power multichip LEDs
Measurements luminaire		
Max. installation depth	25 meter	25 meter
Cable length luminaire (ex factory)	10/20/30 meter (7 wires: 5x0,5mm ² , 2x0,25mm ²) Cable is fixed to the luminaire to ensure watertightness.	10/20/30 meter (7 wires: 5x0,5mm ² , 2x0,25mm ²) Cable is fixed to the luminaire to ensure watertightness.
Max. cable length	The 10M cable can be extended to a maximum of 100 meter (7x2,5mm ²)	The 10M cable can be extended to a maximum of 100 meter (7x2,5mm ²)
Wattage	25W	25W
Lumen efficacy LED	Warm white: 115 Lm/W Clear white: 135 Lm/W	Warm white: 115 Lm/W Clear white: 135 Lm/W
Colour temperatures	Warm white Clear white Mediterranean	RGBW clear white RGBWW warm white
Beam angle	Wide flood	Wide flood
Max. water temperature	40°C	40°C
Water Cooling	On the backside of the luminaire is necessary	On the backside of the luminaire is necessary
Applications	Residential pools, instruction pools	Residential pools, instruction pools
Driver input/output	100-240 Vac / 24Vdc	100-240 Vac / 24Vdc
Driving technology	0-10 Vdc (dimming)	DMX 512
Working temperature power box	-20°C to + 40°C	-20°C to + 40°C
Protection rating power box	IP65 housing - installed in technical room	IP65 housing - installed in technical room
Protections power supply	Short circuit, overload, overvoltage, SELV, Class 2 output, double insulation	Short circuit, overload, overvoltage, SELV, Class 2 output, double insulation
Dimensions Power Box	Length 230 mm, width 80 mm depth 65 mm	Length 230 mm, width 140 mm depth 95 mm
Safety standard compliancy	IEC EN 60598-2-18	IEC EN 60598-2-18
Warranty	4 years	4 years

EVA LED underwater lighting SubAqua series

SubAqua 40W - 50W

Type of light	 SubAqua 40W MONO	 SubAqua 50W RGBW
Type of cover	Microprism cover	Microprism cover
Type of LEDs	12x high power mono LEDs	12x high power multichip LEDs
Measurements luminaire		
Max. installation depth	25 meter	25 meter
Cable length luminaire (ex factory)	10/20/30 meter (7 wires: 5x0,5mm ² , 2x0,25mm ²) Cable is fixed to the luminaire to ensure watertightness.	10/20/30 meter (7 wires: 5x0,5mm ² , 2x0,25mm ²) Cable is fixed to the luminaire to ensure watertightness.
Max. cable length	The 10M cable can be extended to a maximum of 100 meter (7x2,5mm ²)	The 10M cable can be extended to a maximum of 100 meter (7x2,5mm ²)
Wattage	40W	50W
Lumen efficacy LED	Warm white: 115 Lm/W Clear white: 135 Lm/W	Warm white: 115 Lm/W Clear white: 135 Lm/W
Colour temperatures	Warm white Clear white Mediterranean	RGBW clear white RGBWW warm white
Beam angle	Wide flood	Wide flood
Max. water temperature	40°C	40°C
Water Cooling	On the backside of the luminaire is necessary	On the backside of the luminaire is necessary
Applications	Competition, recreational, instruction pools	Competition, recreational, instruction pools
Driver input/output	100-240 Vac / 24Vdc	100-240 Vac / 24Vdc
Driving technology	0-10 Vdc (dimming)	DMX 512
Working temperature power box	-20°C to + 40°C	-20°C to + 40°C
Protection rating power box	IP65 housing - installed in technical room	IP65 housing - installed in technical room
Protections power supply	Short circuit, overload, overvoltage, SELV, Class 2 output, double insulation	Short circuit, overload, overvoltage, SELV, Class 2 output, double insulation
Dimensions Power Box	Length 230 mm, width 80 mm depth 65 mm	Length 230 mm, width 140 mm depth 95 mm
Safety standard compliancy	IEC EN 60598-2-18	IEC EN 60598-2-18
Warranty	4 years	4 years



EVA LED underwater lighting SubAqua XS

SubAqua 10W

Type of light



SubAqua XS Mono



SubAqua XS RGBW

Type of cover

Satin cover

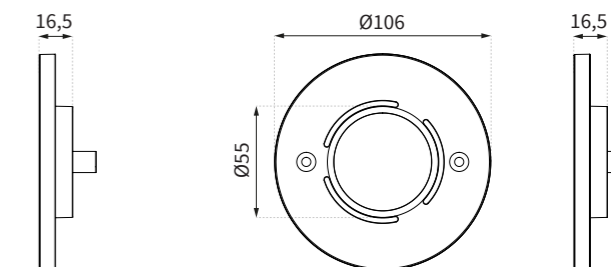
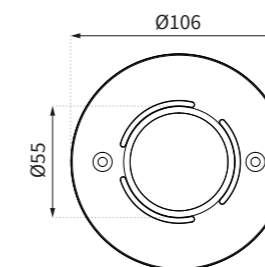
Satin cover

Type of LEDs

5x high power mono LEDs

5x high power multichip LEDs

Measurements luminaire



Max. installation depth

25 meter

25 meter

Cable length luminaire
(ex factory)

10/20/30 meter (7 wires: 5x0,5mm², 2x0,25mm²)
Cable is fixed to the luminaire to ensure watertightness.

10/20/30 meter (7 wires: 5x0,5mm², 2x0,25mm²)
Cable is fixed to the luminaire to ensure watertightness.

Max. cable length

The 10M cable can be extended to a maximum of 100 meter (7x2,5mm²)

The 10M cable can be extended to a maximum of 100 meter (7x2,5mm²)

Wattage

10W

10W

Lumen efficacy LED

Warm white: 115 Lm/W
Clear white: 135 Lm/W

Warm white: 115 Lm/W
Clear white: 135 Lm/W

Colour temperatures

Warm white
Clear white
Mediterranean

RGBW clear white
RGBWW warm white

Beam angle

Wide flood

Wide flood

Max. water temperature

40°C

40°C

Water Cooling

On the backside of the luminaire is necessary

On the backside of the luminaire is necessary

Applications

Residential pools steps, small pools

Residential pools steps, small pools

Driver input/output

100-240 Vac / 24Vdc

100-240 Vac / 24Vdc

Driving technology

0-10 Vdc (dimming)

DMX 512

Working temperature power box

-20°C to + 40°C

-20°C to + 40°C

Protection rating power box

IP65 housing - installed in technical room

IP65 housing - installed in technical room

Protections power supply

Short circuit, overload, overvoltage, SELV, Class 2 output, double insulation

Short circuit, overload, overvoltage, SELV, Class 2 output, double insulation

Dimensions Power Box

Length 230 mm, width 80 mm depth 65 mm

Length 230 mm, width 140 mm depth 95 mm

Safety standard compliancy

IEC EN 60598-2-18

IEC EN 60598-2-18

Warranty

4 years

4 years



EVA SubAqua XS
10W, Mono or RGBW



Optional:
SS316 coverplate

Underwater lighting for pool steps

EVA LED SubAqua XS (SAXS)

Introducing the newest addition to the SubAqua range: the SubAqua XS (SAXS) lamp. This lamp is an upgrade of the popular Q2 lamp, offering even greater reliability in demanding pool environments. Made from ABS instead of stainless steel and featuring our proven water cooling technique, the SubAqua XS ensures a maximum lifespan.

The SubAqua XS lamp includes an ABS flange. This eliminates the need for an additional flange for installation. An accessorial SS316 cover plate is available if desired for aesthetic reasons.

Due to its modest lighting, the SubAqua XS is extremely suitable for illuminating swimming pool steps. In addition, the lamp is an excellent solution for smaller swimming pools where less light is needed. Or, of course, anywhere in the pool where a smaller, reliable lamp suitable for the demanding pool environment is desired. For example, in pools with little water, such as in wellness centers.



EVA LED B2
for whirlpools

10W, Mono or RGBW

Underwater lighting for whirlpools



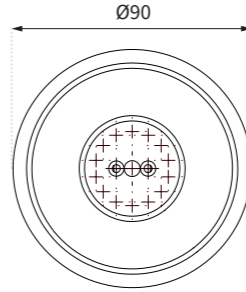
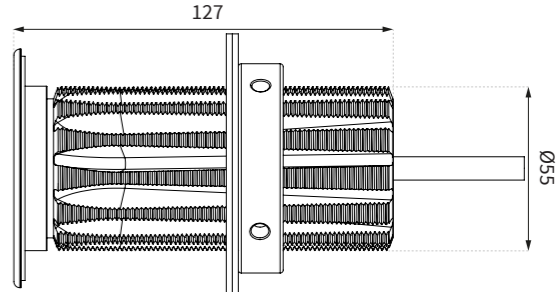
EVA LED B2 Underwater light

The EVA B2 underwater light is designed for zone 0, 1, and 2 applications. It is suitable for use in prefabricated pools and whirlpools, but not applicable for concrete pools, as the light needs to be serviceable from the backside.

The EVA B2 can also be used outside of the water in various areas such as playgrounds and slides. The installation of the B2 lamp does not require any installation niche, because the backside of the lamp needs free space since this lamp is air-cooled.

EVA LED underwater lighting

B2

B2 10W		
Type of light	 B2 Mono	 B2 RGBW
Type of cover	Satin cover	Satin cover
Type of LEDs	6x high power multichip LEDs	6x high power multichip LEDs
Measurements luminaire		
Max. installation depth	25 meter	25 meter
Cable length luminaire (ex factory)	10/20/30 meter (7 wires: 5x0,5mm ² , 2x0,25mm ²) Cable is fixed to the luminaire to ensure watertightness.	10/20/30 meter (7 wires: 5x0,5mm ² , 2x0,25mm ²) Cable is fixed to the luminaire to ensure watertightness.
Max. cable length	The 10M cable can be extended to a maximum of 100 meter (7x2,5mm ²)	The 10M cable can be extended to a maximum of 100 meter (7x2,5mm ²)
Wattage	10W	10W
Lumen efficacy LED	Warm white: 115 Lm/W Clear white: 135 Lm/W	Warm white: 115 Lm/W Clear white: 135 Lm/W
Colour temperatures	RGBW clear white RGBWW warm white Mediterranean	RGBW clear white RGBWW warm white Mediterranean
Beam angle	Wide flood	Wide flood
Max. water temperature	40°C	40°C
Air Cooling	On the backside of the luminaire is necessary	On the backside of the luminaire is necessary
Applications	Whirlpools, Playgrounds, prefabricated slides	Whirlpools, Playgrounds, prefabricated slides
Driver input/output	100-240 Vac / 24Vdc	100-240 Vac / 24Vdc
Driving technology	0-10 Vdc (dimming)	DMX 512
Working temperature power box	-20°C to + 40°C	-20°C to + 40°C
Protection rating power box	IP65 housing - installed in technical room	IP65 housing - installed in technical room
Protections power supply	Short circuit, overload, overvoltage, SELV, Class 2 output, double insulation	Short circuit, overload, overvoltage, SELV, Class 2 output, double insulation
Dimensions Power Box	Length 230 mm, width 80 mm depth 65 mm	Length 230 mm, width 140 mm depth 95 mm
Safety standard compliancy	IEC EN 60598-2-18	IEC EN 60598-2-18
Warranty	4 years	4 years



EVA LED underwater lighting Control options

EVA Experience web app

Take control of your EVA lights using the EVA Experience web app. With this user-friendly app, you can easily set different zones to synchronize the lights in specific areas, adjust the brightness, choose from preset colors, or select dynamic color-changing scenes.

EVAstream integration

If you have an EVAstream system along with EVA underwater lights, you can synchronize the lights during your swim workout sessions. The lights will guide you through your exercises, creating an immersive experience.

EVA Experience Tablet Set

Access the EVA Experience web app conveniently through a tablet. Check the technical requirements to ensure compatibility, and we recommend using an iPad 9th generation for optimal performance. To enhance your experience, we now offer the dedicated EVA Experience Tablet Set, which includes an iPad with a charging case and a wall unit for wireless induction charging.



EVA Experience web app

EVA Piezo unit

In addition to the Tablet Set, we provide Piezo units that allow you to control the EVA lights from inside or outside the pool. With a simple touch of a button, you can change the color scene or adjust the brightness of the lights. You can also combine the web app with the Piezo unit for seamless control inside the pool.



EVA Piezo 3 unit
for underwater



EVA Piezo SQ unit
for dry environment



PWT BETTER WATER BETTER LIFE

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