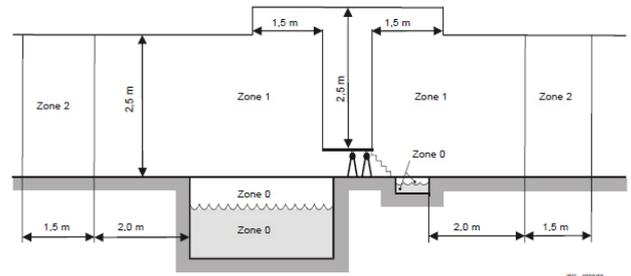


EVA Optic is specialist developer of high quality LED solutions for swimming pools and indoor sports facilities. All products are developed and manufactured inhouse in the Netherlands.



>> EVAline Aqua HE as modular system



>> Swimming pool zones as specified in the International safety standard IEC 60364-7-702

EVAline Aqua HE	
Type system	IP53 LED linear lighting chlorine resistant as modular system for continuous lines
Application	Swimming pool areas - mounting above zone 1 (not to be used inside zone 1 or 2)
Material	Clear or black anodised aluminium PMMA UGR <19 microprism cover
Shock resistant	Yes
AutoTemperature System (ATS)	Yes
Dimensions base module	W: 70 mm - H: 32 mm Length max. 5000 mm in one piece
Dimensions light module	L: 1170 mm - W: 70 mm - H: 55 mm
Dimensions cover module	W: 70 mm - H: 29,5 mm
Type LEDs	High-power multi chip LED array 29cm
CRI LEDs	84
Lumen efficacy system (+/- 10%)	3000K: 140 Lm/W 4000K: 145 Lm/W 5000K: 160 Lm/W
Colour temperatures	3000K Warm white 4000K Neutral white 5000K Daylight white
Max. energy consumption	Standard 60W, see options on page 2
Max. working temperature	45°C
Active power factor correction	>0,94 (when dimming back to 30%, PF remains >0,9)
Total Harmonic distortion	<8%
Constant Light Output	Yes
Flicker free	Yes
Input voltage AC	100/264
Input voltage DC	170/280
Driving technology	0-10Vdc or DALI
Max. cable length	100m (5x4mm ²)
Working temp. powerbox	-20°C to +40°C
Protections	Short circuit, overload, overvoltage, SELV equivalent, Class 2 output, double insulation
Options	Emergency units, daylight sensors
Lifetime	50,000 hours L80/B20
Warranty	4 years

* Important! Always keep enough space (min. 5 cm) around the luminaire (including front), heatsink and powerbox for sufficient cooling.

EVAline Aqua HE | Dimensions

EVAline Aqua HE as modular system

	Power in W	Length in cm	Dimming*	Number of drivers	Emergency unit possible
V3A-F30-xxC-M	20	30	1-10V	1	No
V3A-F60-xxC-M	27	59	1-10V	1	No
V3A-F90-xxCH-M	20	88	1-10V	1	Yes
V3A-F90-xxC-M	60	88	0-10V/DALI	1	Yes
V3A-F120-xxCH-M	27	117	1-10V	1	Yes
V3A-F120-xxC-M	60	117	0-10V/DALI	1	Yes
V3A-F146-xxCH-M	55	146	0-10V/DALI	1	Yes
V3A-F175-xxCH-M	60	175	0-10V/DALI	1	Yes
V3A-F175-xxC-M	120	175	0-10V/DALI	2	Yes
V3A-F204-xxCH-M	60	204	0-10V/DALI	1	Yes
V3A-F233-xxCH-M	60	233	0-10V/DALI	1	Yes
V3A-F233-xxC-M	120	233	0-10V/DALI	2	Yes

xx = Enter the desired colour temperature here. You can choose between 30 for 3000K, 40 for 4000K and 50 for 5000K.

* Standard not dimmable. Dimming is possible at extra cost.

EVAline | Mounting

EVAline is a modular LED line system, fabricated from clear anodized aluminium. The modular system exist of three types of modules. The base module is connected to the ceiling. The light modules are connected tot the base module at every spot where light is desired. The empty places between the light modules are covered with cover modules. EVAline is also available as complete armature, consisting of equal parts of base modules and light modules. EVAline as modular system is suitable for every location and can be configured according to your own wishes.



Example base module

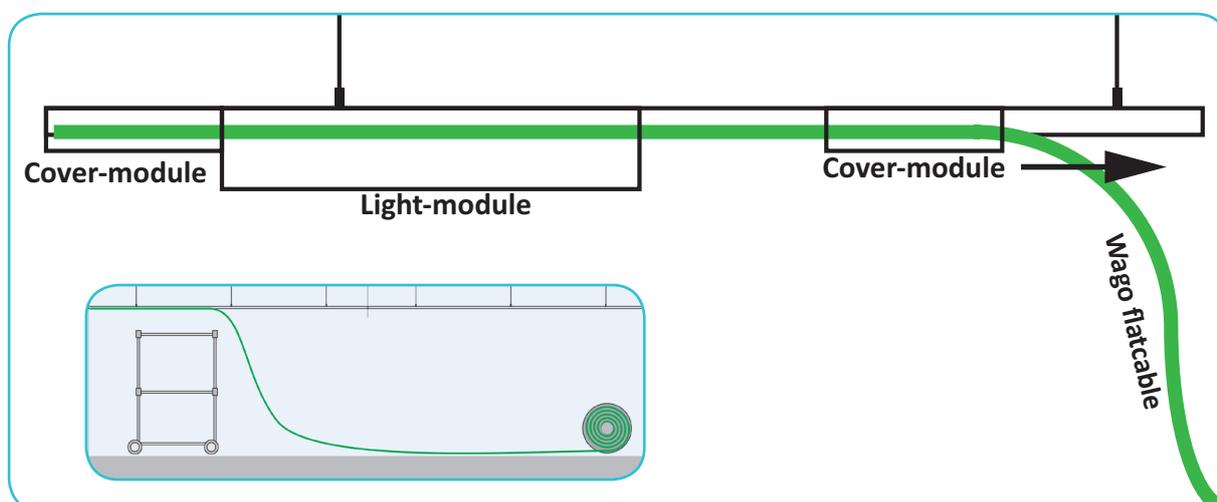


Example light module



Example cover module

EVAline is equipped with a Wago flatcable. The Wago cable is supplied on rolls. After assembling of the base module the Wago flatcable and the light modules can be installed. There is one type of Wago cable we use: the 3-phases cable with 5 wires. Use a piece of cover module, to keep the cable in the base module connected to the ceiling. Relocate the cover module to easily place the light modules. Afterwards place the light and cover modules take turns, according to the light plan.



EVA Optic is specialist developer of LED lighting for eg swimming and sports facilities. We have a complete range of LED lighting to fully equip public pools and indoor sports facilities with high-quality LED lighting in all areas of the accommodations (indoor, outdoor and even underwater) according to international standards for light output, electrical safety and materials used.

EVA lighting was already used in more than 250 public swimming pools and sports centers and more than 1,000 private pools worldwide. All our lights are developed and manufactured in-house in the Netherlands. The advantages of EVA LED lighting:



Auto Temperature System (ATS) - smart protection against LED overheating

For optimal lifetime of the LEDs it is very important to prevent the LEDs from overheating. EVA Optic LED lights with ATS regulates its own temperature. When the temperature of the LEDs is too high, the lighting system automatically dims back slightly until the desired balance between the ambient temperature and the LED temperature has been restored. The difference is so minimal that you do not perceive it, but the lighting will last for many years longer because of it.



Athlete-friendly lighting

LED is spot lighting and can therefore be extremely bright, creating blinding glare. EVA Optic swimming pool and sports lighting have very low glare rate (UGR < 19) because of the unique microprism cover. The cover ensures that powerful lights create minimal glare and are extremely suitable for sports environments. The low glare rate ensures powerful yet pleasant light with optimal visibility, even when glancing directly into the light.



Flicker-free lighting: optimal visibility during fast ball sports

Flickering light is very disturbing for athletes. Low-frequency flicker in lighting is associated with blurred vision, eye fatigue and impaired visual perception. Flickering may also cause stroboscopic effects, which can lead to the apparent slowing or stopping of objects (ball or shuttle). Even flicker at frequencies that are not visible to the naked eye, can cause such results. EVAline fixtures are flicker-free.



No loss of LED capacity in multi-coloured lights (RGBW lights)

EVA Optic developed Intelligent Power Control (IPC) for multi-coloured RGBW lights. With IPC the LED's full capacity is used at all times. Due to the constant light output, a pool is optimally illuminated regardless of the light colour. Without IPC part of the RGBW light's capacity is lost. Depending on colour choice, this loss can reach up to 75%.



Fast Return on Investment

Smart design, use of the newest developments in LED technology and unique driving functionalities make EVA Optic swimming pool & sports lights very efficient. When replacing traditional lighting solutions (TL, metal halid, PL) with comparable light output, the average payback time is 2-5 years.