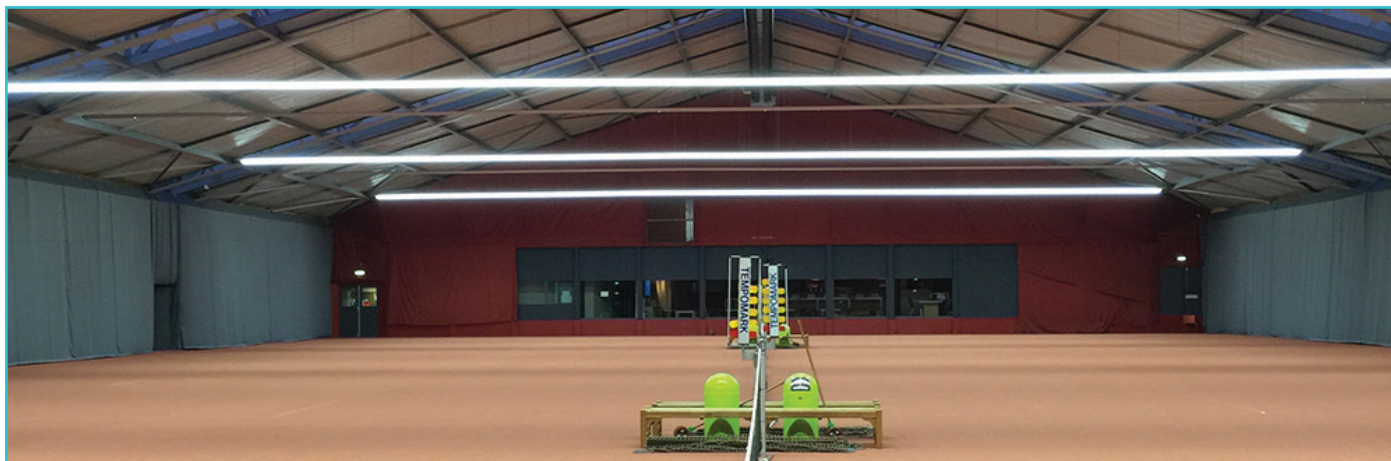


EVA Optic is specialist developer of high quality LED solutions for demanding environments.
All products are developed and manufactured inhouse in the Netherlands.



>> EVAline Industry or Sport as modular system

	EVAline Industry	EVAline Sport
Type system	IP53 LED linear lighting as modular system for continuous light lines	IP53 LED linear lighting as modular system for continuous light lines
Application	Indoor - utility and industry	Indoor sports applications
Material	Clear anodised aluminium PMMA UGR <19 microprism cover	Clear or black anodised aluminium PC UGR <19 microprism cover
Shock resistant	Yes	Yes
AutoTemperature System (ATS)	Yes	Yes
Dimensions base module	W: 70 mm - H: 32 mm Length max. 5000 mm in one piece	W: 70 mm - H: 32 mm Length max. 5000 mm in one piece
Dimensions light module	L: 880 mm - W: 70 mm - H: 55 mm	L: 880 mm - W: 70 mm - H: 55 mm
Dimensions cover module	W: 70 mm - H: 29,5 mm	W: 70 mm - H: 29,5 mm
Type LEDs	High-power multi chip LED array 29cm	High-power multi chip LED array 29 cm
CRI LEDs	84	84
Lumen efficacy system (+/- 10%)	3000K: 140 Lm/W 4000K: 145 Lm/W 5000K: 160 Lm/W	3000K: 140 Lm/W 4000K: 145 Lm/W 5000K: 160 Lm/W
Colour temperatures	3000K Warm white 4000K Neutral white 5000K Daylight white	3000K Warm white 4000K Neutral white 5000K Daylight white
Max. energy consumption	Standard 60W, see options on page 2	Standard 60W, see options on page 2
Max. working temperature	35°C	35°C
Active power factor correction	>0,94 (when dimmed back to 30%, PF remains >0,9)	>0,94 (when dimmed back to 30%, PF remains >0,9)
Total Harmonic distortion	<8%	<8%
Constant Light output	Yes	Yes
Flicker free	Yes	Yes
Input voltage AC	100/264	100/264
Input voltage DC	170/280	170/280
Driving technology	0-10Vdc or DALI	0-10Vdc or DALI
Max. cable length	100m (5x4mm ²)	100m (5x4mm ²)
Working temp. powerbox	-20°C to +40°C	-20°C to +40°C
Protections	Short circuit, overload, overvoltage, SELV equivalent, Class 2 output, double insulated	Short circuit, overload, overvoltage, SELV equivalent, Class 2 output, double insulated
Options	Emergency units, daylight sensors	Emergency units, daylight sensors
Lifetime	50,000 hours L80/B20	50,000 L80/B20
Warranty	4 years	4 years

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

EVAline Industry / EVAline Sport | Dimensions

EVAline Industry as modular system

	Power in W	Length in cm	Dimming*	Number of drivers	Emergency unit possible
V3I-F30-xxC-M	20	30	1-10V	1	No
V3I-F60-xxC-M	27	59	1-10V	1	No
V3I-F90-xxCH-M	20	88	1-10V	1	Yes
V3I-F90-xxC-M	60	88	0-10V/DALI	1	Yes
V3I-F120-xxCH-M	27	117	1-10V	1	Yes
V3I-F120-xxC-M	60	117	0-10V/DALI	1	Yes
V3I-F146-xxCH-M	55	146	0-10V/DALI	1	Yes
V3I-F175-xxCH-M	60	175	0-10V/DALI	1	Yes
V3I-F175-xxC-M	120	175	0-10V/DALI	2	Yes
V3I-F204-xxCH-M	60	204	0-10V/DALI	1	Yes
V3I-F233-xxCH-M	60	233	0-10V/DALI	1	Yes
V3I-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 Sport as modular system

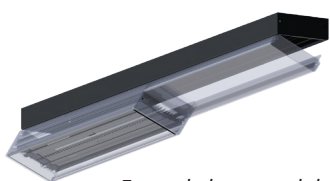
	Power in W	Length in cm	Dimming*	Number of drivers	Emergency unit possible
V3S-F30-xxC-S	20	30	1-10V	1	No
V3S-F60-xxC-S	27	59	1-10V	1	No
V3S-F90-xxCH-S	20	88	1-10V	1	Yes
V3S-F90-xxC-S	60	88	0-10V/DALI	1	Yes
V3S-F120-xxCH-S	27	117	1-10V	1	Yes
V3S-F120-xxC-S	60	117	0-10V/DALI	1	Yes
V3S-F146-xxCH-S	55	146	0-10V/DALI	1	Yes
V3S-F175-xxCH-S	60	175	0-10V/DALI	1	Yes
V3S-F175-xxC-S	120	175	0-10V/DALI	2	Yes
V3S-F204-xxCH-S	60	204	0-10V/DALI	1	Yes
V3S-F233-xxCH-S	60	233	0-10V/DALI	1	Yes
V3S-F233-xxC-S	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

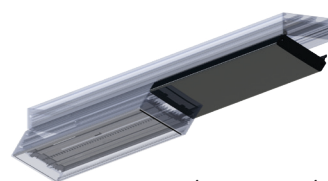
EVAline is a modular LED line system, fabricated from clear anodized aluminium. The modular system exist of three types of modules. The base module is connected to the ceiling. The light modules are connected tot the base module at every spot where light is desired. The empty places between the light 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

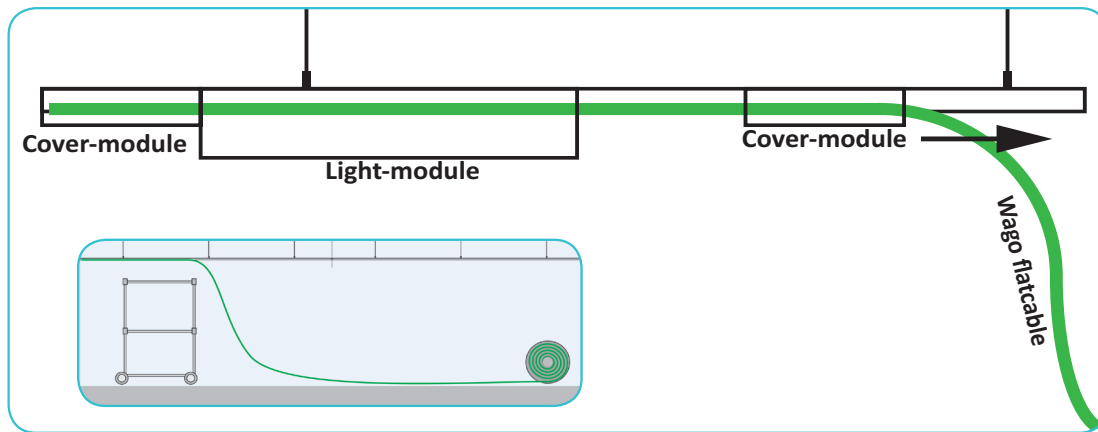


Example light module



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.



Advantages of EVA | LED Lighting

EVA Optic is specialist developer of LED lighting for demanding environments. We have a complete range of LED lighting for public pools and indoor sports facilities. We also have a range of high-quality lights for industry and utility. 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.