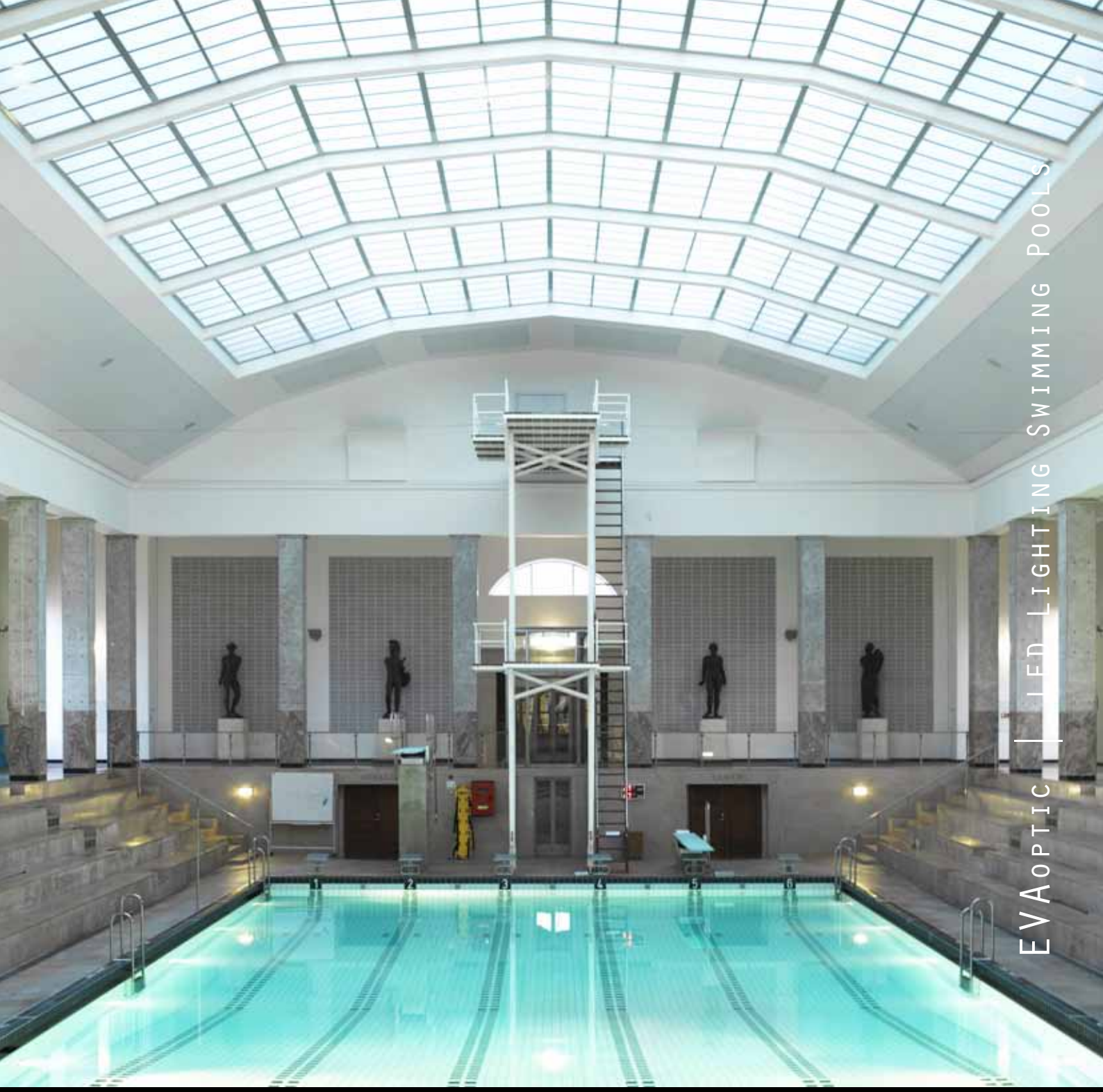
EVAoptic | LED Lighting Swimming Pools



EVAOPTIC
LIGHTING EVOLUTION

EVA OPTIC | LEADING INNOVATION

EVA Optic is Dutch developer and manufacturer of high quality LED underwater lighting and industrial LED lighting for use in swimming pools, sports facilities and public buildings.

PIONEERS

EVA Optic was founded by pioneers in the lighting industry with unique knowledge of LED technology and its application in high performance lighting fixtures. This expertise within our team has since expanded to include product engineering, opto-electronics, energy technology, product design and knowledge of heat conduction.

This combination of disciplines and a high level of technical expertise are key to our current high-quality product range. Our LED underwater lights have quickly become the best selling pool lights in Europe.

QUALITY

Since the founding of EVA Optic B.V., our aim has been QUALITY. Quality in all aspects of our products, operations, production and of materials used in the end product, the lamp. Our Product Quality Management System ensures close cooperation between product engineers and production management

resulting in a constant optimization of our products, both in terms of electronics, materials and processes.

This is why from the founding day of our company we have accomplished our quality goals, by getting the most out of our electronics and light's capacity. We are Leading Innovation.

EVA OPTIC INNOVATIONS

HIGH-POWER CHIP LED TECHNOLOGY
EVA Optic was one of the first manufacturers to successfully use powerful chip LEDs in underwater lighting, enabling us to achieve high luminosity in our underwater lights. Moreover, by closely monitoring the latest developments in LED technology our fixtures always contain the latest LEDs.

ELECTRONICS SEPARATED FROM LAMP
EVA Optic is the world's only manufacturer of underwater lighting to have completely separated all electronics from the lamp. This means that the driver and power supply can be installed in a central technical area (the underwater lights are less susceptible to malfunctions). Electronics typically have limited lifespan. A lamp with electronics underwater is therefore much more vulnerable than a lamp with all electronics in a dry, easily accessible area.

WATER COOLING
With the right combination of materials, a well thought out product design and clever use of water for cooling the LEDs, we have managed to produce very powerful underwater lights with optimal cooling for maximum durability.

! NEW ! INTELLIGENT POWER CONTROL
EVA Optic introduces the first RGBW LED underwater light with sufficient light output to replace a 400W halogen underwater light without having to compromise on light output. EVA Optic's unique Intelligent Power Control (IPC) ensures that the EVA Optic A4 RGBW LED underwater lamp always has 100% light output while energy consumption is never higher than 50W. Other RGB(W) underwater lights need 200W of LED power to match this light output:

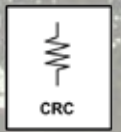
	Amount of Colors of LEDs	Total energy cons. LEDs	Light output all LEDS are on	Light output at color Purple*	Light output at color Blue**
RGBW lamp with IPC	**4 (Red, Green, Blue, White)**	**50W**	**100%**	**100%**	**100%**
RGBW lamp without IPC	4 (Red, Green, Blue, White)	50W	100%	50%	25%

** Purple = 2 of 4 Colors of LEDs on (blue and red LEDs)*
*** Blue = 1 of 4 Colors of LEDs on (blue LEDs)*

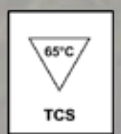
A standard LED RGBW lamp uses only 25% of its total power when set to the color blue. The other three colored LEDs (Red, Green and White) are turned off. The total power of the light is distributed over all the LEDs in the light, as opposed to only the working LEDs.

EVA Optic's IPC ensures that the light's total power is distributed only over the LEDs that are turned on. If only 25% of the LEDs are on (as is the case when the light is set to the color blue), the light still has 100% light output, whereas with any RGBW light without IPC the light output will have reduced by 75%!

The IPC system makes the new EVA Optic A4 RGBW the most energy efficient multicolor underwater light available. It is as powerful as a 400W halogen light while consuming only 50W per light.



CABLE RESISTANCE CORRECTION
Automatic cable resistance correction.



TEMPERATURE CONTROL SYSTEM
Automatic shutdown at high LED temperature to ensure a high LED lifespan.

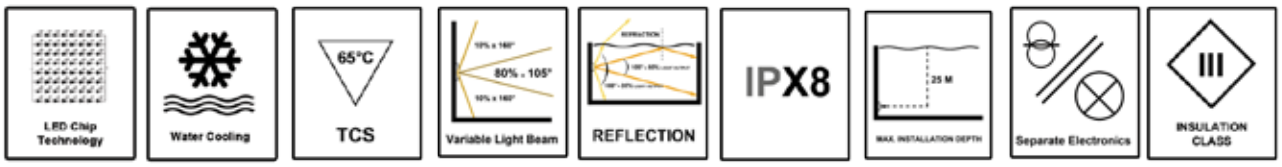
DMX CONTROL
EVA Optic uses DMX for controlling the multicolor lights. This universal system is used in professional lighting technology and home automation. With DMX you can connect other lights to the same lighting system, all lights can be centrally controlled by either a touch screen panel, remote control or by an iPhone or iPad. You can even program your own light effect shows. All EVA Optic Multicolor lights are DMX ready, which means you only need an additional DMX controller to control all your lights via DMX.

LED Underwater Lighting

Residential Pools & Commercial Pools

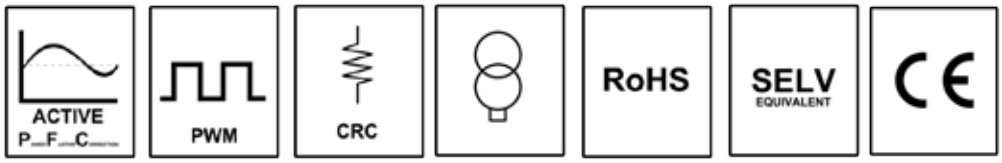
EVA Optic Comparison Underwater Lights

LED Light	Q1 RGBW	Q1	A1	A2	A2 Multicolor	A4 RGBW
Max. Energy consumption Light	15W	25W	25W	50W	50W constant output (IPC)	50W constant output (IPC)
Type LEDs	4x15W	1x25W	1x25W	2x50W	2x50W	4x50W
Light output at 6000K	150W Halogen	200W Halogen	200W Halogen	400W Halogen	400W Halogen	400W Halogen
Dimensions	Ø 100 mm x 2,5 mm	Ø 100 mm x 2,5 mm	Ø 117.5 mm x 17mm	Ø 117.5 mm x 17mm	Ø 117.5 mm x 17mm	Ø 117.5 mm x 17mm
Beam angle	65°	65°	Variable beam: 80% 105° 20% 160°	Variable beam: 80% 105° 20% 160°	Variable beam: 80% 105° 20% 160°	Variable beam: 80% 105° 20% 160°
Maximum install. depth	25m	25m	25m	25m	25m	25m
Protection rating	IPX8	IPX8	IPX8	IPX8	IPX8	IPX8
Temperature Control System (TCS)	Yes	Yes	Yes	Yes	Yes	Yes
Colors tones	Multicolor RGBW	Daylight white (6500K) Warm white (3250K) Blue	Daylight white (6500K) Warm white (3250K) Blue	Daylight white (6500K) Warm white (3250K) Sky Blue Mediterranean Blue Blue	Multicolor White Multicolor Sky Multicolor Mediterranean	Multicolor RGBW



Driver/Power Supply

Driver/power supply	Q1 RGBW	Q1	A1	A2	A2 MC	A4 MC
AC input	100-240 Vac	100-240 Vac	100-240 Vac	100-240 Vac	100-240 Vac	100-240 Vac
DC output	24 Vdc Max	24 Vdc Max	24 Vdc Max	24 Vdc Max	24 Vdc Max	24 Vdc Max
Cable Resistance Correction	Yes	Yes	Yes	Yes	Yes	Yes
Active Power Factor Correction	Yes	Yes	Yes	Yes	Yes	Yes
Protections driver	Short circuit/ Overload/ Over-voltage/Water-proof IP66/ SELV equivalent/ Class 2 output/ Double insulated	Short circuit/ Overload/ Over-voltage/Wa-terproof IP66/ SELV equivalent/ Class 2 output/ Double insulated	Short circuit/ Overload/ Over-voltage/Water-proof IP66/ SELV equivalent/ Class 2 output/ Double insulated	Short circuit/ Overload/ Overvoltage/ Waterproof IP67/ SELV equivalent/ Class 2 output	Short circuit/ Overload/ Overvoltage/ Waterproof IP67/ SELV equivalent/ Class 2 output	Short circuit/ Overload/ Overvoltage/ Waterproof IP67/ SELV equivalent/ Class 2 output
Protection housing	IP66	IP66	IP66	IP66	IP66	IP66
DMX 512 Ready	Yes	No	No	No	Yes	Yes
Dimbaar 1-10Vdc	No (DMX)	Yes	Yes	Yes	No (DMX)	No (DMX)
Intelligent Power Control (IPC)	Yes	No	No	No	Yes	Yes



All types of EVA Optic LED underwater lights have been tested by IEC accredited testing facility DEKRA to the international safety standard for underwater lighting, IEC EN 60598-2-18. The lights were tested for water resistance (IPX8), safety class (3), electrical safety (SELV), impact resistance, resistance to high pressure, thermal protection and fire safety. The EVA Optic LED underwater lights have passed all tests. The declaration of conformity is published on www.evaoptic.com.

INTELLIGENT POWER CONTROL (for RGBW/multicolor lights)

EVA Optic introduces the first RGBW LED underwater light with sufficient light output to replace a 400W Halogen underwater light without having to compromise on light output. EVA Optic's unique Intelligent Power Control (IPC) ensures that the EVA Optic A4 RGBW LED underwater lamp always has 100% light output while energy consumption is never higher than 50W.

	Amount of Colors of LEDs	Total energy con-sumption Light	Light output when all LEDS are on	Light output at color Purple*	Light output at color Blue**
RGBW lamp with IPC	4 (Red, Green, Blue, White)	50W	100%	100%	100%
RGBW lamp with-out IPC	4 (Red, Green, Blue, White)	50W	100%	50%	25%

* Combination of 2 colors of LED on, the color purple for instance is obtained by turning on all the red and blue LEDs, all the green and white LEDs are turned off.
** 1 of 4 Colors of LEDs on; only the blue LEDs are on, the other LEDs (red, green, white) are turned off.

A standard LED RGBW lamp uses only 25% of its total power when set to the color blue. The other three colored LEDs (Red, Green and White) are turned off. The problem is that the total power of the light is distributed over all the LEDs in the light, as opposed to only the working LEDs. EVA Optic's IPC ensures that the light's total power is distributed only over the LEDs that are turned on. If only 25% of the LEDs are on (as is the case when the light is set to the color blue), the light still has 100% light output, whereas with any RGBW light without IPC the light output will have reduced by 75%! The IPC system makes the new EVA Optic A4 RGBW the most energy efficient multicolor underwater light available. It is as powerful as a 400W halogen light while consuming only 50W per light.

EVA Optic Innovations

EVA Optic was founded by a couple of pioneers in the lighting industry with a unique knowledge of LED technology and its application in high performance lighting fixtures. This expertise within our team was expanded to include product engineering, opto-electronics, materials science, energy technology, design, water proofing and knowledge in the field of heat conduction.

This combination of disciplines and a high technical expertise form the basis of our product range, something we are very proud of. We strengthened our position as a pioneer in recent years by introducing some in-house developed revolutionary product innovations and technologies and apply them in our products:

HIGH-POWER CHIP LED TECHNOLOGY

EVA Optic was one of the first manufacturers to successfully use powerful chip LEDs in underwater lighting, enabling us to achieve high luminosity in our underwater lights. Moreover, by closely monitoring the latest developments in LED technology our fixtures always contain the latest LEDs;

ELECTRONICS SEPARATED FROM LAMP

EVA Optic is the world's only manufacturer of underwater lighting to have completely separated all electronics from the lamp. This means that the driver and power supply can be installed in a central technical area (easy for maintenance). Electronics typically have limited lifespan. A lamp with electronic underwater is therefore much more vulnerable than a lamp with electronics in a dry, easily accessible area;

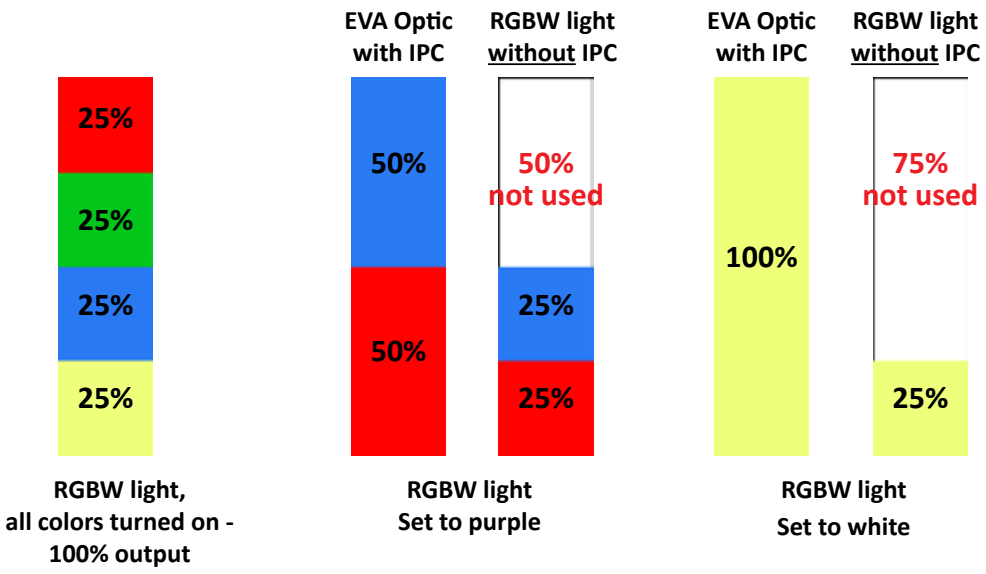
WATER COOLING

With the right combination of materials, a well thought out product design and clever use of water for cooling the LEDs, we have managed to produce very powerful underwater lights with optimal cooling for maximum durability;

INTELLIGENT POWER CONTROL

EVA Optic introduces the first RGBW LED underwater light with sufficient light output to replace a 400W halogen underwater light without having to compromise on light output. EVA Optic's unique Intelligent Power Control (IPC) ensures that the EVA Optic A4 RGBW LED underwater lamp always has 100% light output while energy consumption is never higher than 50W. Other RGB(W) underwater lights need 200W of LED power to match this light output.

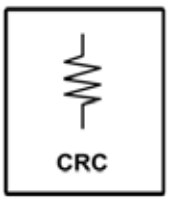
Below is an example for comparison:



	Amount of Colors of LEDs	Total energy consumption Light	Light output when all LEDS are on	Light output at Purple*	Light output at White**
RGBW lamp with IPC	4 (Red, Green, Blue, White)	50W	100%	100%	100%
RGBW lamp without IPC	4 (Red, Green, Blue, White)	50W	100%	50%	25%

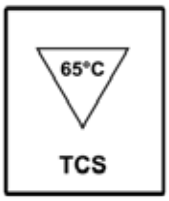
* Combination of 2 colors of LED on, the color purple for instance is obtained by turning on all the red and blue LEDs, all the green and white LEDs are turned off.
** 1 of 4 Colors of LEDs on; only the white LEDs are on, the other LEDs (red, green, blue) are turned off.

A standard LED RGBW lamp uses only 25% of its total power when set to the color blue. The other three colored LEDs (Red, Green and White) are turned off. The problem is that the total power of the light is distributed over all the LEDs in the light, as opposed to only the working LEDs. EVA Optic's IPC ensures that the light's total power is distributed only over the LEDs that are turned on. If only 25% of the LEDs are on (as is the case when the light is set to the color blue), the light still has 100% light output, whereas with any RGBW light without IPC the light output will have reduced by 75%! The IPC system makes the new EVA Optic A4 RGBW the most energy efficient multicolor underwater light available. It is as powerful as a 400W halogen light while consuming only 50W per light.



CABLE RESISTANCE CORRECTION

Automatic cable resistance correction;



TEMPERATURE CONTROL SYSTEM

Automatic shutdown at high LED temperature to ensure a high LED lifespan. This ensures the lamp can never be destroyed by incorrect application (above water, in too hot water, etc.);

DMX CONTROL

For controlling the multicolor lights, EVA Optic makes use of DMX. This universal system is used in professional lighting technology and home automation. This enables you to connect other lights to the same system and all lights can be centrally controlled by either a touch screen panel, remote control or by an iPhone or iPad. You can even program your own light effect shows. All EVA Optic Multicolor lights are DMX ready, which means you only need an additional DMX controller to control all your lights via DMX.

Single Color

LED Underwater Lighting

EVA Optic Q1

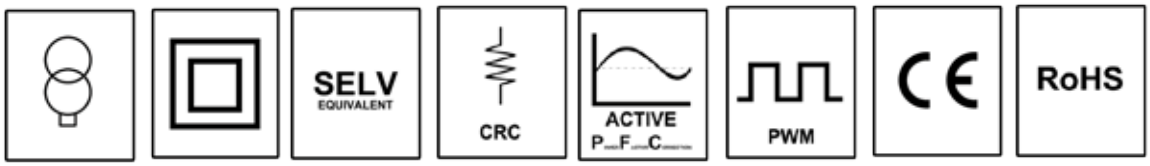
LED Fixture

Max. energy consumption	25W
Type LEDs	1x25W High power LEDs
Color temperatures	Daylight white (6500K) Warm white (3250K) Blue Green
Light output	200W halogen at 6500K
Protection class	IPx8
Insulation class	3
Beam angle	65°
Max. water temperature	40°C
Max. installation depth	25m
Dimesnions	ø 100 mm x 2,5 mm
Cable length fixture	10m (2x0.5mm²)
Warranty	2 years

All types of EVA Optic LED underwater lights have been tested by IEC accredited testing facility DEKRA to the international safety standard for underwater lighting, IEC EN 60598-2-18. The lights were tested for water resistance (IPX8), safety class (3), electrical safety (SELV), impact resistance, resistance to high pressure, thermal protection and fire safety. The EVA Optic LED underwater lights have passed all tests. The declaration of conformity is published on www.evaoptic.com.

LED Driver/Power supply

AC input	100 - 240Vac
DC output	24Vdc
Dimmable	1-10 Vdc
Working temperature	-20°C to +40°C
Max. Cable length	100m. (2x4mm² cable)
Protections	Short circuit/Overload/Overvoltage/Waterproof IP66/SELV equivalent/Class 2 output/Double insulation
Safety standards	UL8750, UL935, UL1012, UL1310 Class 2, CSA-C22.2 No. 107.1/223-M91 class 2, EN60598-1, EN60598-2-18 EN61347-1, EN61347-2-13, EN55015, EN661000-3-2/3-3/4-2/4-3/4-4/4-6/4-8/4-11, EN61547, ANSI/IEEE C62.41-1991, CE.
Type housing	IP65 housing
Warranty	2 years



EVA Optic A1

LED Fixture

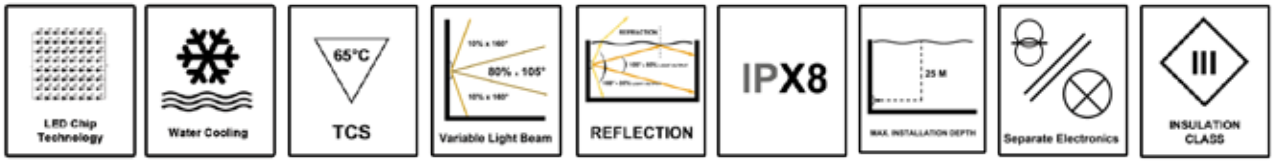
Max. energy consumption	25W
Type LEDs	1x25W High power LEDs
Color temperatures	Daylight white (6500K) Warm white (3250K) Blue Green
Light output	200W halogen at 6500K
Protection class	IPx8
Insulation class	3
Beam angle	Variable: 80% 105° 20% 160°
Max. water temperature	50°C
Max. installation depth	25m
Dimensions	ø 117,5mm - thick 17mm
Cable length fixture	10m (2x0.5mm²)
Warranty	2 years

Daylight white (6500K)

Warm white (3250K)

Blue

Green



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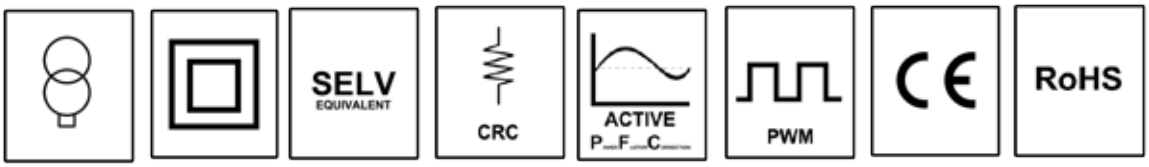
LED Driver/Power supply

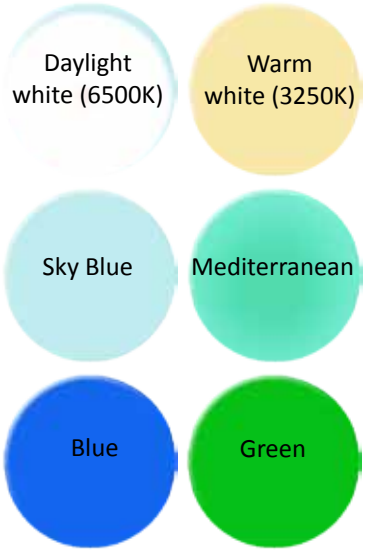
AC input	100 - 240Vac
DC output	24Vdc
Dimmable	1-10 Vdc
Working temperature	-20°C to +40°C
Max. Cable length	100m. (2x4mm² cable)
Protections	Short circuit/Overload/Overvoltage/Waterproof IP66/SELV equivalent/Class 2 output/Double insulation
Safety standards	UL8750, UL935, UL1012, UL1310 Class 2, CSA-C22.2 No. 107.1/223-M91 class 2, EN60598-1, EN60598-2-18 EN61347-1, EN61347-2-13, EN55015, EN661000-3-2/3-3/4-2/4-3/4-4/4-6/4-8/4-11, EN61547, ANSI/IEEE C62.41-1991, CE.
Type housing	IP65 housing
Warranty	2 years

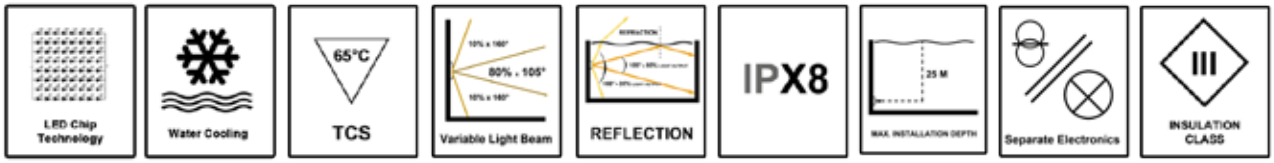


EVA Optic A2

LED Fixture

Max. energy consumption	50W
Type LEDs	2x50W High power LEDs
Color temperatures	Daylight white (6500K) Warm white (3250K) Sky Blue Mediterranean Blue Blue Green
Light output	400W halogen at 6500K
Protection class	IPx8
Insulation class	3
Beam angle	Variable: 80% 105° 20% 160°
Max. water temperature	40°C
Max. installation depth	25m
Dimensions	ø 117,5mm - thick 17mm
Cable length fixture	10m (3x0.5mm²)
Warranty	2 years

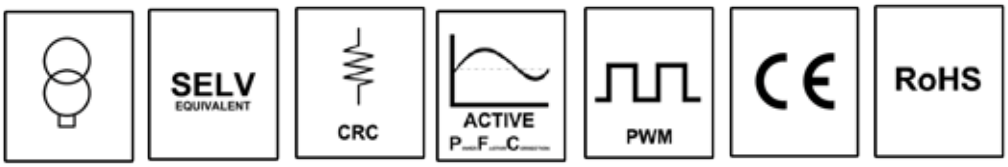




All types of EVA Optic LED underwater lights have been tested by IEC accredited testing facility DEKRA to the international safety standard for underwater lighting, IEC EN 60598-2-18. The lights were tested for water resistance (IPX8), safety class (3), electrical safety (SELV), impact resistance, resistance to high pressure, thermal protection and fire safety. The EVA Optic LED underwater lights have passed all tests. The declaration of conformity is published on www.evaoptic.com.

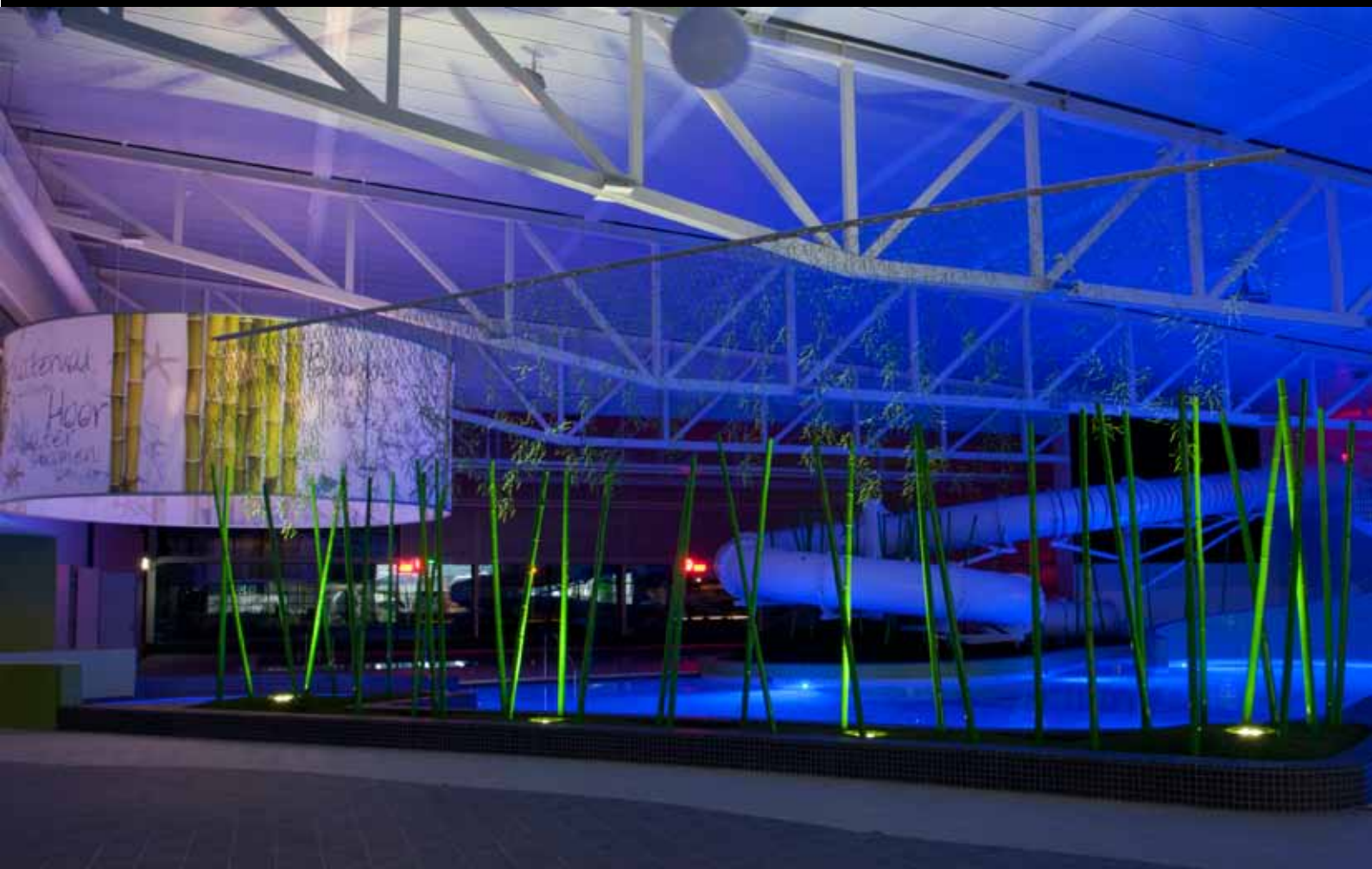
LED Driver/Power supply

AC input	100 - 240Vac
DC output	24Vdc
Dimmable	1-10 Vdc
Working temperature	-20°C to +40°C
Max. Cable length	100m. (2x4mm² cable)
Protections	Short circuit/Overload/Overvoltage/Waterproof IP67/SELV equivalent/Class 2 output
Safety standards	UL8750, UL1012, UL1310 Class 2, CSA-C22.2 No. 107.1/223-M91 class 2, EN60598-1, EN60598-2-18, EN61347-1, EN61347-2-13, EN55015, EN661000-3-2/3-3/4-2/4-3/4-4/4-5/4-6/4-8/4-11, EN61547, ANSI/IEEE C62.41-1991, CE.
Type housing	IP66 housing
Warranty	2 years



RGBW/Multicolor

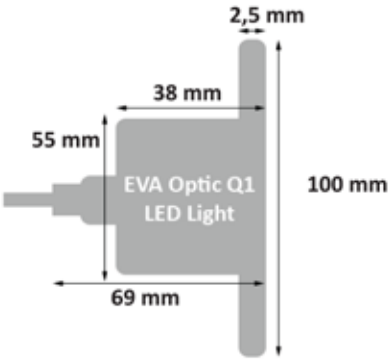
LED Underwater Lighting



EVA Optic Q1 RGBW

LED Fixture

Max. energy consumption	15W
Type LEDs	4x15W High power LEDs
Color temperatures	RGBW
Light output	150W halogen at 6500K
Protection class	IPX8
Insulation class	3
Beam angle	65°
Max. water temperature	40°C
Max. installation depth	25m
Dimesnions	ø 100 mm - thick 2,5 mm
Cable length fixture	10m (5x0.5mm²)
Warranty	2 years



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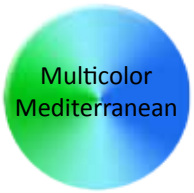
LED Driver/voeding

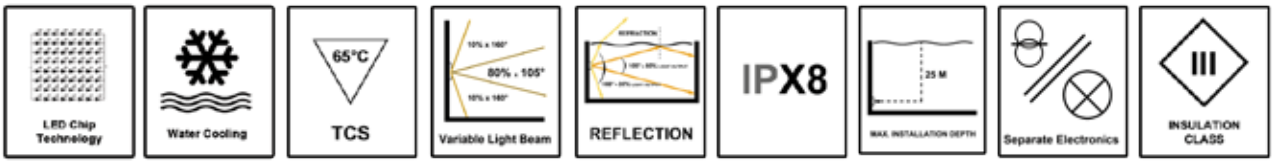
AC input	100 - 240Vac
DC output	24Vdc
Dimmable	via DMX
DMX Ready	Yes
Intelligent Power Control	Yes
Working temperature	-20°C to +40°C
Max. Cable length	100m. (2x4mm² cable)
Protections	Short circuit/Overload/Overvoltage/Waterproof IP66/SELV equivalent/Class 2 output/Double insulation
Safety standards	UL8750, UL935, UL1012, UL1310 Class 2, CSA-C22.2 No. 107.1/223-M91 class 2, EN60598-1, EN60598-2-18 EN61347-1, EN61347-2-13, EN55015, EN661000-3-2/3-3/4-2/4-3/4-4/4-6/4-8/4-11, EN61547, ANSI/IEEE C62.41-1991, CE.
Type housing	IP65 housing
Warranty	2 years

EVA Optic A2 Multicolor

LED Fixture

Max. energy consumption	50W
Type LEDs	2x50W High power LEDs
Color temperatures	Multicolor white * *Warm wit 3250K to Daylight white 6500K* Multicolor Sky * *Daylight white - Light blue- Blue* Multicolor Mediterranean * *Green - Cyan - Blue*
Light output	400W halogen at 6500K
Protection class	IPx8
Insulation class	3
Beam angle	Variable: 80% 105° 20% 160°
Max. water temperature	40°C
Max. installation depth	25m
Dimensions	ø 117,5mm - thick 17mm
Cable length fixture	10m (3x0.5mm²)
Warranty	2 years

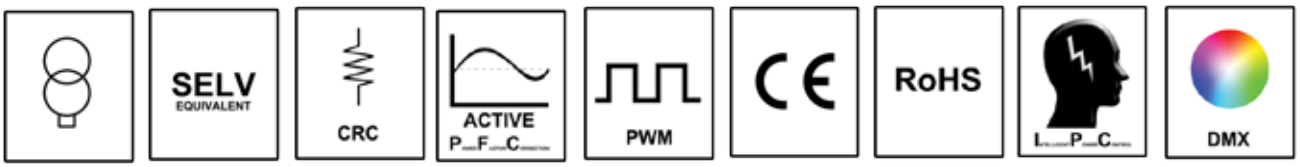




All types of EVA Optic LED underwater lights have been tested by IEC accredited testing facility DEKRA to the international safety standard for underwater lighting, IEC EN 60598-2-18. The lights were tested for water resistance (IPX8), safety class (3), electrical safety (SELV), impact resistance, resistance to high pressure, thermal protection and fire safety. The EVA Optic LED underwater lights have passed all tests. The declaration of conformity is published on www.evaoptic.com.

LED Driver/Power supply

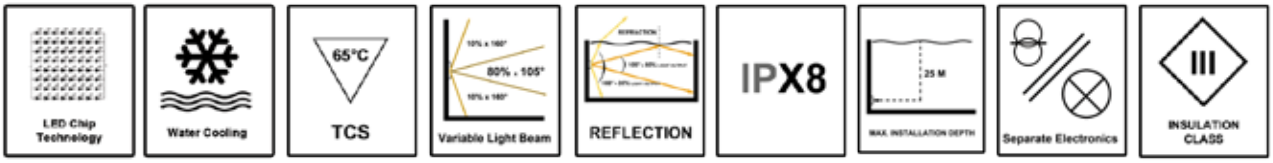
AC input	100 - 240Vac
DC output	24Vdc
Dimmable	Via DMX
DMX Ready	Yes
Intelligent Power Control	Yes
Working temperature	-20°C to +40°C
Max. Cable length	100m. (2x4mm² cable)
Protections	Short circuit/Overload/Overvoltage/Waterproof IP67/SELV equivalent/Class 2 output
Safety standards	UL8750, UL1012, UL1310 Class 2, CSA-C22.2 No. 107.1/223-M91 class 2, EN60598-1, EN60598-2-18, EN61347-1, EN61347-2-13, EN55015, EN661000-3-2/3-3/4-2/4-3/4-4/4-5/4-6/4-8/4-11, EN61547, ANSI/IEEE C62.41-1991, CE.
Type housing	IP66 housing
Warranty	2 years



EVA Optic A4 RGBW

LED Fixture

Max. energy consumption	50W
Type LEDs	4x50W High power LEDs
Color temperatures	Multicolor RGBW * *Red/Green/Blue/Daylight white* * *Red/Green/Blue/Warm white* *Allpossible color combinations in 1 lamp*
Light output	400W halogen at 6500K
Protection class	IPx8
Insulation class	3
Beam angle	Variable: 80% 105° 20% 160°
Max. water temperature	40°C
Max. installation depth	25m
Dimensions	ø 117,5mm - thick 17mm
Cable length fixture	10m (5x0.5mm²)
Warranty	2 years



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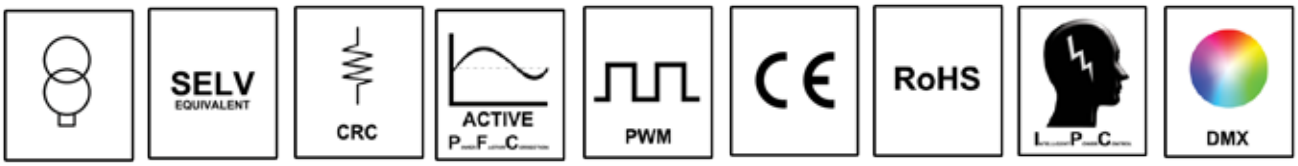
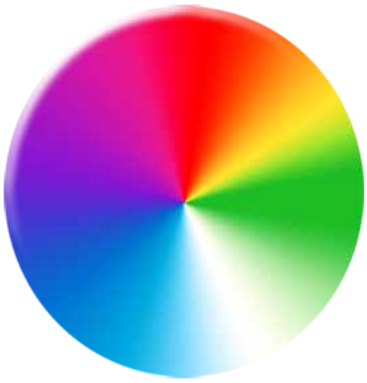
LED Driver/Power supply

AC input	100 - 240Vac
DC output	24Vdc
Dimmable	Via DMX
DMX Ready	Yes
Intelligent Power Control	Yes
Working temperature	-20°C to +40°C
Max. Cable length	100m. (2x4mm² cable)
Protections	Short circuit/Overload/Overvoltage/Waterproof IP67/SELV equivalent/Class 2 output
Safety standards	UL8750, UL1012, UL1310 Class 2, CSA-C22.2 No. 107.1/223-M91 class 2, EN60598-1, EN60598-2-18, EN61347-1, EN61347-2-13, EN55015, EN661000-3-2/3-3/4-2/4-3/4-4/4-5/4-6/4-8/4-11, EN61547, ANSI/IEEE C62.41-1991, CE.
Type housing	IP66 housing
Warranty	2 years



DMX Controllers

EVA Optic Multicolor/RGBW LED underwater lights need a DMX controller for controlling the lights. A DMX controller is needed for playing these scenes, dimming, etc. Additional options are (depending on the type of controller) creating your own custom color scenes, dimming the lights, playing scenes faster or slower, fixing a color during a color changing scene, picking a color on the panel, etc. With EVA Optic's DMX controllers, you can have complete control over the color metamorphosis of your pool!



There are 4 types of controllers available:

- DMX Multicolor Remote Control
- DMX ArchiTech
- DMX ArchiTech XL
- DMX ArchiTech Pro

DMX Multicolor Remote Control

The EVA Optic Multicolor Remote Control is used for scrolling through the 9 pre-programmed color scenes of the EVA Optic RGBW lights. This is the most basic solution for controlling your EVA Optic RGBW lights.

Pre-programmed scenes:

1. White
2. Sky Blue (white & blue)
3. Blue
4. Mediterranean (green & blue)
5. Green
6. Red
7. Purple
8. Color changing scene fade
9. Color changing scene jump
10. Off

DMX ArchiTech

The ArchiTech controller is a small (11mm thick) glass fronted DMX wall panel. The small and easy to use interface has 3 touch sensitive buttons with different 3 modes:

- Color Mode - Adjust the current scene by adding a random color
- Scene Mode - Play one of the 8 pre-programmed scenes
- Dimmer Mode - Dimming 10% - 100%

Specifications

- As simple as a dimmer switch
- 3 touch sensitive buttons
- Glass wall-mounted DMX controller
- 32bit ARM technology
- 86x86x11mm size
- Stand alone operation
- Ready to use (pre-programmed for EVA Optic RGBW lights)

DMX ArchiTech XL

The ArchiTech XL controller is the best solution for projects that require a large amount of scenes along with an intuitive interface. The display gives you information on which scene you are currently playing, dimming percentage, etc. The computer programmable ArchiTech XL is capable of playing up to 99 scenes, each of which can be modified by using the touch sensitive buttons. The small and easy to use interface has 3 touch sensitive buttons with different 3 modes:

- Color Mode - Adjust the current scene by adding a random color
- Scene Mode - Play one of the 8 pre-programmed scenes
- Dimmer Mode - Dimming 10% - 100%

Specifications

- Large memory capacity
- 4 touch sensitive buttons
- Glass wall-mounted DMX controller
- Micro-USB for programming
- For PC, Mac & Tablet with USB
- 32bit ARM technology
- 86x110x11mm size
- Software available
- Stand alone operation
- Ready to use (pre-programmed for EVA Optic RGBW lights)
- 512 DMX channels
- Up to 99 scenes

DMX ArchiTech Pro

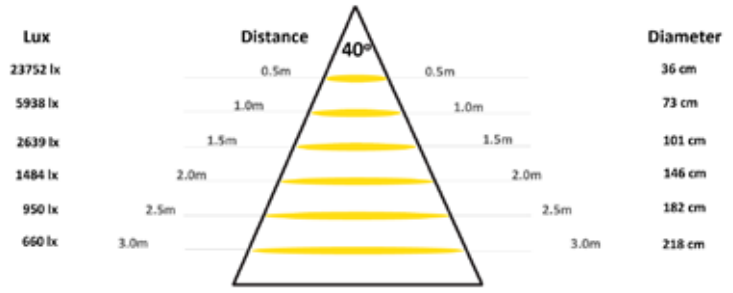
The ArchiTech Pro is used for the most demanding and complex projects. The display gives you information on which scene you are currently playing, dimming percentage, etc. Choose the color real-time by using the color wheel on the interface. With the ArchiTech Pro controller you can create up to 10 different zones with up to 500 scenes. Adjust the color, speed, intensity of the lights. Create and time your own custom scenes for each zone, then play your scenes remotely from your smart phone or iPad. Mystify your visitors, the possibilities are infinite!

Specifications

- Glass wall-mounted DMX controller
- Graphical color display
- Color/dimmer/speed palette
- Touch sensitive buttons
- Touch sensitive wheel
- Multi-zone microSD memory
- 500 scenes, 10 zones
- 1024 DMX channels
- USB & Ethernet connectivity
- RS232, ports, infra red
- Clock and calendar
- Network communication
- Catalog of designs
- Windows/Mac software available
- iPhone/iPad/Android compatible

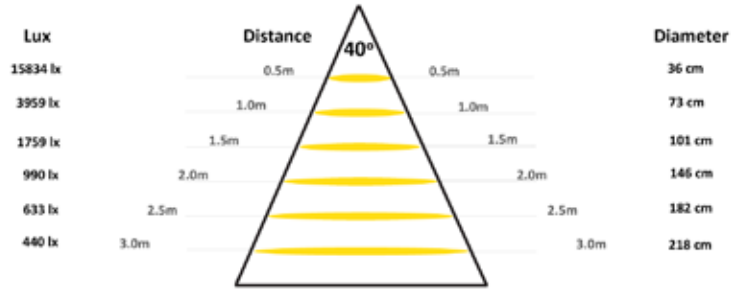
Light Distribution Curves

Q1 Daylight white 25W



Measurements at:
Color temperature: Daylight white 6500K
Energy Consumption: 25W
Beam angle: 40°

Q1 RGBW Multicolor 4x15W



Measurements at:
Color temperature: Daylight white 6500K
Energy Consumption: 15W
Beam angle: 40°

A1 Daylight white 25W

Measurements at:
Color temperature: Daylight white 6500K
Energy Consumption: 25W
Beam angle: 120°

A2 Daylight white 50W

Measurements at:
Color temperature: Daylight white 6500K
Energy Consumption: 50W
Beam angle: 120°

A4 RGBW Multicolor 4x50W

Measurements at:
Color temperature: Daylight white 6500K
Energy Consumption: 50W
Beam angle: 120°

LED Lighting

Commercial Pools & sports facilities

Modular Lighting System | LEDline

EVA Optic introduces a unique LED linear lighting system. EVA Optic LEDline is a modular lighting system which is specifically developed for use in swimming pools environments.

LED main lighting and ambient lighting in one, EVA Optic LEDline is the first LED linear lighting system with sufficient capacity to meet the stringent demands of lighting in pools. LEDline is a modular system. This means that there are few limits to the possibilities of the system (compatibility, mounting options, light sources, electronics and additional functionalities).

EVA Optic LEDline is constructed from high quality materials. This makes the system robust, highly reliable and durable. Because of the long lifetime of the LEDs used, the periodic replacement of light sources as with conventional fluorescent lighting no longer applies. This combined with the very low power consumption ensures many years of considerable cost saving.

Public Swimming Pool De Vrolijkheid Zwolle

Technical specifications LEDline LED linear lighting

The LEDline system combines several lighting products. The system can function as a pendant luminaire, surface mounted luminaire, insert luminaire, cove lighting, indirect lighting and wall fixture. Below is a n overview of capabilities and applications:

Housing material
Anodized aluminum

Dimension options
- Width fitting: 69.5 mm
- Luminaire height: 73.5 mm
- Minimum length luminaire using 12W LED array strips: 300mm
- Minimum length luminaire using 10W LED Chip: 150mm
- Maximum length luminaire: 6000mm.
- Minimum distance netween LED arrays: none
- Minimum distance between LED Chip: 150mm

Shielding options
PMMA Microprism (anti-glare) or PMMA opal

CRI LEDs
80-90

Power Factor
0.99

Environment temperature
Max. 45 ° C

Cooling
Free air convection (optional extra cooling)

Also available: LED Spot RGBW

Control
0-10V/DALI/DMX

Driver/power supply options
- 100W dimmable constant current LED driver (0-10V/DALI/DMX)
- 50W dimmable LED driver constant current (0-10V)

IP value
IP55 (standard version)

Mounting options

Surface mounting:
- Hot dip galvanized M8 head bolts for mounting on steel (also suitable for suspended mounting);
- Brackets for suspended mounting on hollow core slab (the brackets create a small space between luminaire and ceiling fixture making it seem to float);
- Click system whereby the cover of the fixture is screwed to the ceiling and then the fixture is clicked on the cover.

Suspended:
- Bracketson which cable / wire is attached;
- Hot dip galvanized M8 head bolts on which cable / wire is attached.

Recessed installation:
Recessed installation of the luminare in a suspended (modular) ceiling.

Cove

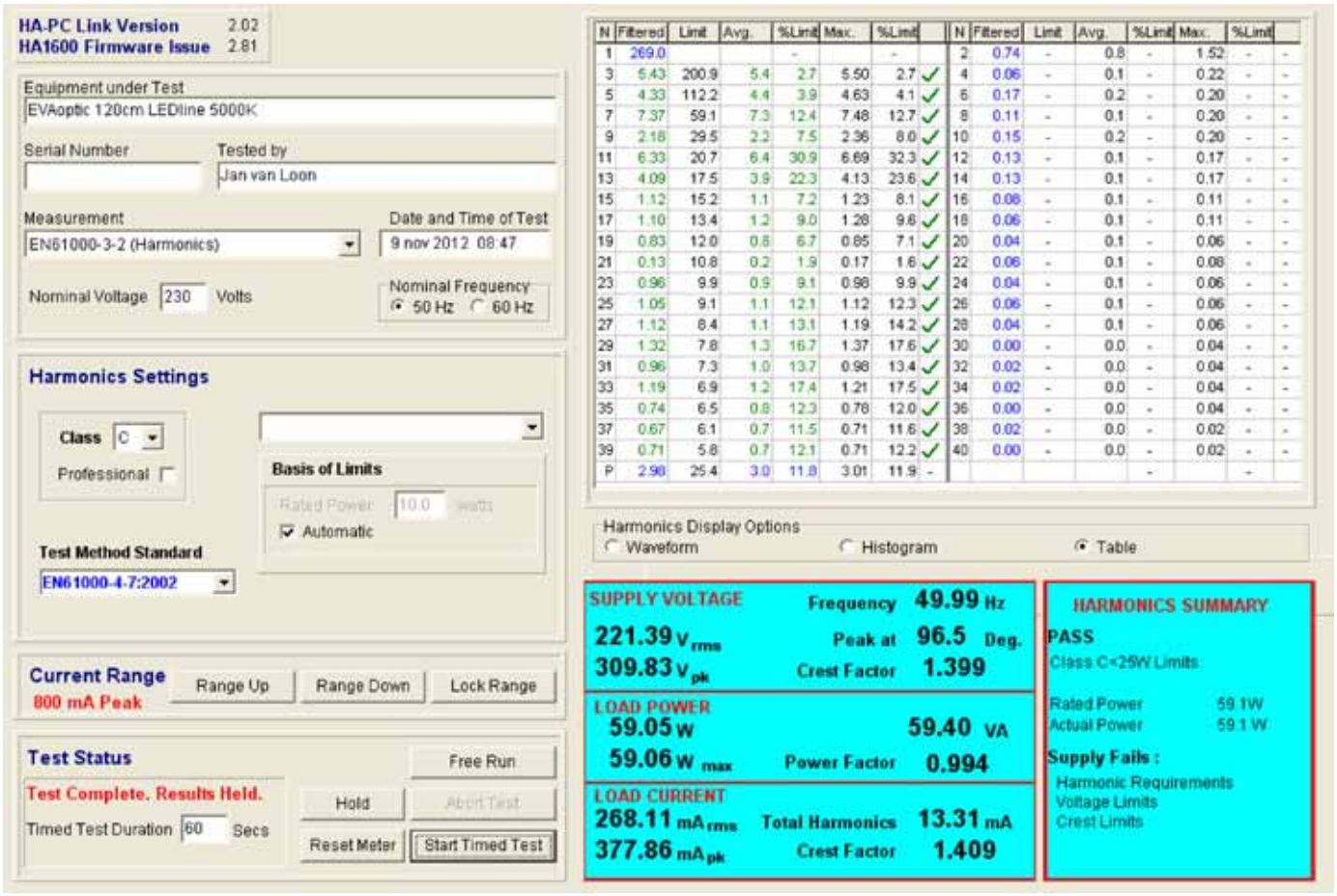
Indirect lighting (adjustable tilt)

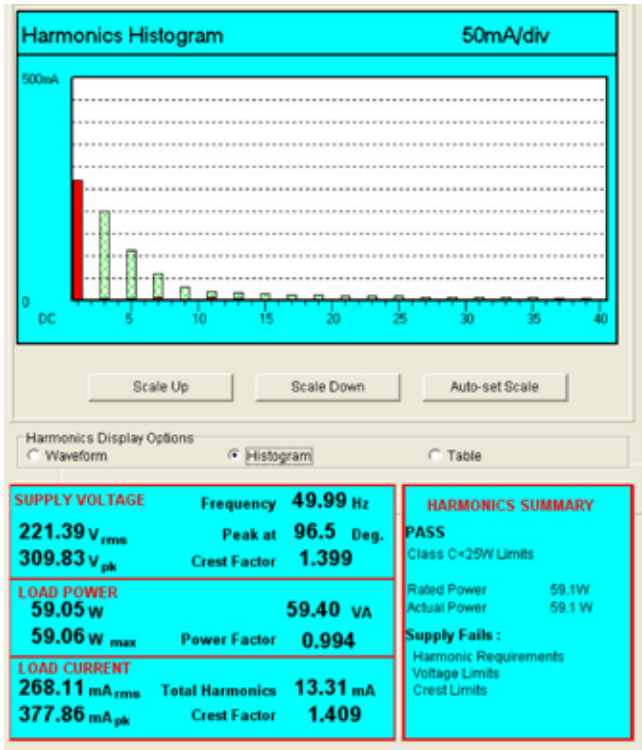
Wall mounting:
The wall brackets are mounted on the side of the fixture so that the fixture is fixed to the wall as an up- or downlight.

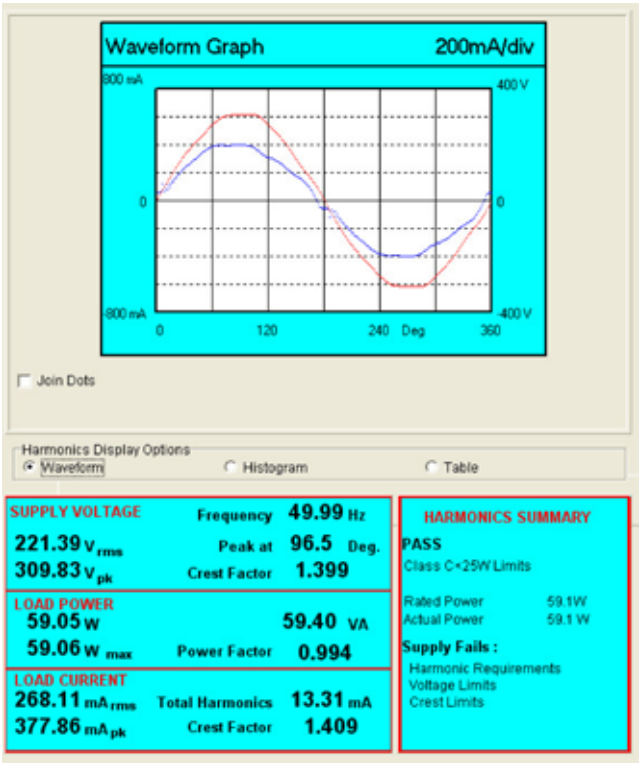
Special features/capabilities
- Low power consumption
- Short payback time
- Flexible application / customization
- Sustainable Design
- Suitable for extreme conditions (heat, humidity, chlorine fumes, salt vapors)
- Blind hole threaded
- Integration into building automation system
- Control via DMX controller

Optional
- Emergency Function
- Additional heat sinks integrated into luminaire
- Daylight Control
- Through-wiring
- Converters for integration into building automation system

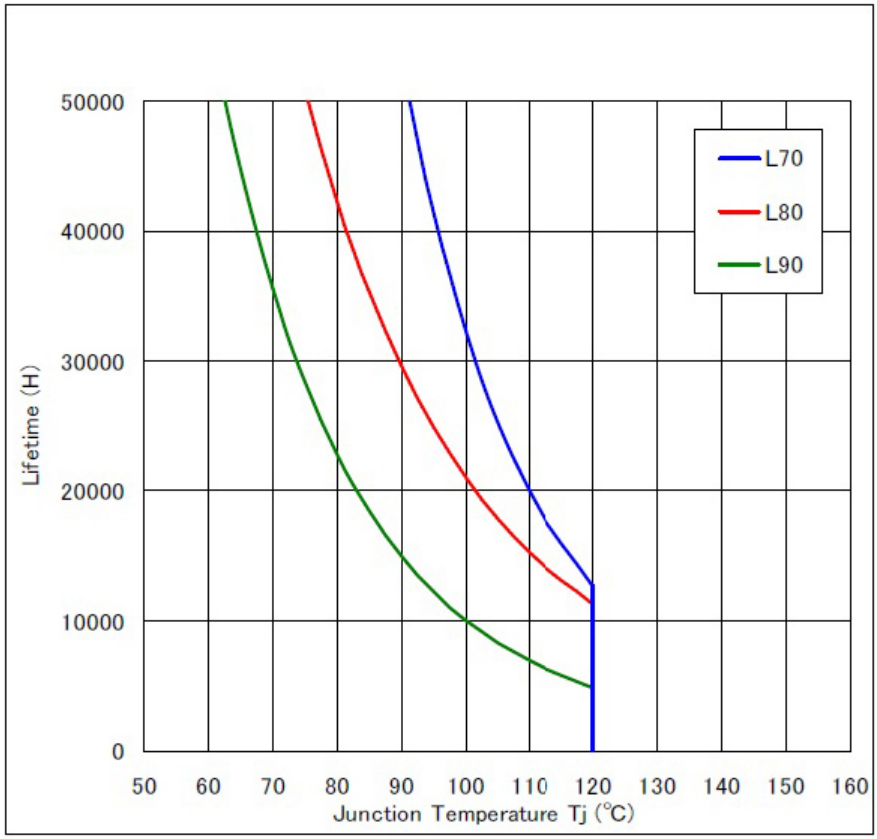
LEDline Measurement Data | Harmonics







LEDline Measurement Data | LED Lifetime



LEDline Measurement Data | Thermal Imaging Report

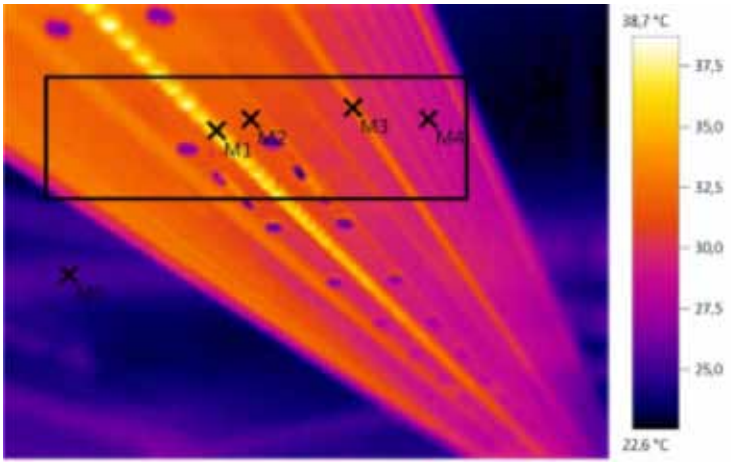
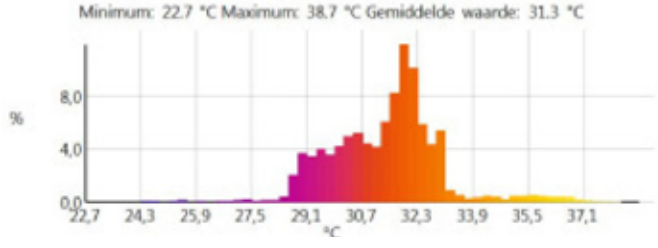


Image markings:

Objects	Temp. [°C]	Emiss.	Refl. temp. [°C]	Opmerkingen
Measuring point 1	36,5	0,95	20,0	-
Measuring point 2	31,5	0,95	20,0	-
Measuring point 3	32,4	0,95	20,0	-
Measuring point 4	29,3	0,95	20,0	-
Measuring point 5	25,2	0,95	20,0	-

Histogram:



LED Downlights | DL-series

Also available:
D25 RGBW (4x25W)

EVA Optic DL10

Type LEDs	Multichip LED array MCPCB
Color temperature	Daylight white (5000K) Neutral white (4000K) Warm white (3000K)
Light oputput LED	1000 Lm (at 4000K)
Energy consumption	10W
Power factor	> 0,94
Working temperature	Max. 60º C
Beam angle	80º
Dimmable	1-10V
IP factor	IP54
Material	Aluminium, PMMA
Dimensions	ø 200 mm, height 100 mm, hole size ø 165 mm

EVA Optic DL15

Type LEDs	Multichip LED array MCPCB
Color temperature	Daylight white (5000K) Neutral white (4000K) Warm white (3000K)
Light oputput LED	1500 Lm (at 4000K)
Energy consumption	15W
Power factor	> 0,94
Working temperature	Max. 60º C
Beam angle	80º
Dimmable	1-10V
IP factor	IP54
Material	Aluminium, PMMA
Dimensions	ø 200 mm, height 100 mm, hole size ø 165 mm

EVA Optic DL20

Type LEDs	Multichip LED array MCPCB
Color temperature	Daylight white (5000K) Neutral white (4000K) Warm white (3000K)
Light oputput LED	2000 Lm (at 4000K)
Energy consumption	20W
Power factor	> 0,94
Working temperature	Max. 60º C
Beam angle	80º
Dimmable	1-10V
IP factor	IP54
Material	Aluminium, PMMA
Dimensions	ø 200 mm, height 100 mm, hole size ø 165 mm

Products

EVA-DL10-01	EVA Optic DL10 LED Downlight - Daylight white (5000K)
EVA-DL10-02	EVA Optic DL10 LED Downlight - Neutral white (4000K)
EVA-DL10-03	EVA Optic DL10 LED Downlight - Warm white (3000K)
EVA-DL15-01	EVA Optic DL15 LED Downlight - Daylight white (5000K)
EVA-DL15-02	EVA Optic DL15 LED Downlight - Neutral white (4000K)
EVA-DL15-03	EVA Optic DL15 LED Downlight - Warm white (3000K)
EVA-DL20-01	EVA Optic DL20 LED Downlight - Daylight white (5000K)
EVA-DL20-02	EVA Optic DL20 LED Downlight - Neutral white (4000K)
EVA-DL20-03	EVA Optic DL20 LED Downlight - Warm white (3000K)

LED Wall and Ceiling Lights | W-series

Also available:
W25 RGBW (4x25W)

EVA Optic W10

Type LEDs	Multichip LED array MCPCB
Color temperature	Daylight white (5000K) Neutral white (4000K) Warm white (3000K)
Light output LED	1000 Lm (at 4000K)
Energy consumption	10W
Power factor	> 0,94
Dimmable	1-10V
IP factor	IP54
Material	Aluminium, Polycarbonate
Dimensions	ø 325 mm, height 125 mm
Color housing	Grey

EVA Optic W15

Type LEDs	Multichip LED array MCPCB
Color temperature	Daylight white (5000K) Neutral white (4000K) Warm white (3000K)
Light output LED	1500 Lm (at 4000K)
Energy consumption	15W
Power factor	> 0,94
Dimmable	1-10V
IP factor	IP54
Material	Aluminium, Polycarbonate
Dimensions	ø 325 mm, height 125 mm
Color housing	Grey

EVA Optic W20

Type LEDs	Multichip LED array MCPCB
Color temperature	Daylight white (5000K) Neutral white (4000K) Warm white (3000K)
Light output LED	2000 Lm (at 4000K)
Energy consumption	20W
Power factor	> 0,94
Dimmable	1-10V
IP factor	IP54
Material	Aluminium, Polycarbonate
Dimensions	ø 325 mm, height 125 mm
Color housing	Grey

Products

EVA-W10-G1	EVA Optic W10 LED Wall & Ceiling Light - Daylight white (5000K)
EVA-W10-G2	EVA Optic W10 LED Wall & Ceiling Light - Neutral white (4000K)
EVA-W10-G3	EVA Optic W10 LED Wall & Ceiling Light - Warm white (3000K)
EVA-W15-G1	EVA Optic W15 LED Wall & Ceiling Light - Daylight white (5000K)
EVA-W15-G2	EVA Optic W15 LED Wall & Ceiling Light - Neutral white (4000K)
EVA-W15-G3	EVA Optic W15 LED Wall & Ceiling Light - Warm white (3000K)
EVA-W20-G1	EVA Optic W20 LED Wall & Ceiling Light - Daylight white (5000K)
EVA-W20-G2	EVA Optic W20 LED Wall & Ceiling Light - Neutral white (4000K)
EVA-W20-G3	EVA Optic W20 LED Wall & Ceiling Light - Warm white (3000K)

LED Spotlights | SL-serie

The EVA Optic SL LED spotlights were designed for use in almost every conceivable application. The IP67 LED luminaire is resistant to water, heat and pressure and can be used both indoors and outdoors. The spots are not only extremely robust and weatherproof, the EVA Optic SL spotlights have a high color fastness and fantastic light output. This makes the lamp suitable for the most diverse applications such as lighting of shops, showrooms, offices, schools and production halls, but also gardens, outdoor sports grounds, swimming pools, indoor sports centers, illumination of buildings, public parks and car parks.

The SL series of EVA Optic is available in various color shades, wattages and beam widths. The LED spotlight is also available in various designs; spotlight with bracket, double spotlight (beam up and down) and suspended luminaire. Inquire about the options.

EVA Optic SL20

Type LEDs	High Power Chip LEDs
Energy consumption	20W
Color temperatures	Bright white (6500K) Warm white (3000K) Extra Warm white (2700K)
Working temperature	Max. 45° C
Beam angle	17°/ 37°/ 60°/ 75°
Dimmable	1-10V
IP rating	IP67
Material	Aluminium, PMMA
Dimensions	ø 120 mm, height 121 mm

Light output Lumen	***CRI***
2000Lm (6500K)	70 (6500K)
1600Lm (3000K)	80 (3000K)
1300Lm (2700K)	98 (2700K)

Products

EVA-SL20-01-17 EVA Optic LED Spotlight SL20 20W Bright white 6500K - 17 degrees light beam angle
EVA-SL20-01-37 EVA Optic LED Spotlight SL20 20W Bright white 6500K - 37 degrees light beam angle
EVA-SL20-01-60 EVA Optic LED Spotlight SL20 20W Bright white 6500K - 60 degrees light beam angle
EVA-SL20-01-75 EVA Optic LED Spotlight SL20 20W Bright white 6500K - 75 degrees light beam angle

EVA-SL20-03-17 EVA Optic LED Spotlight SL20 20W Warm white 3000K - 17 degrees light beam angle
EVA-SL20-03-37 EVA Optic LED Spotlight SL20 20W Warm white 3000K - 37 degrees light beam angle
EVA-SL20-03-60 EVA Optic LED Spotlight SL20 20W Warm white 3000K - 60 degrees light beam angle
EVA-SL20-03-75 EVA Optic LED Spotlight SL20 20W Warm white 3000K - 75 degrees light beam angle

EVA-SL20-04-17 EVA Optic LED Spotlight SL20 20W Extra Warm white 2700K - 17 degrees light beam angle
EVA-SL20-04-37 EVA Optic LED Spotlight SL20 20W Extra Warm white 2700K - 37 degrees light beam angle
EVA-SL20-04-60 EVA Optic LED Spotlight SL20 20W Extra Warm white 2700K - 60 degrees light beam angle
EVA-SL20-04-75 EVA Optic LED Spotlight SL20 20W Extra Warm white 2700K - 75 degrees light beam angle

EVA Optic SL50

Type LEDs	High Power Chip LEDs
Energy consumption	50W
Color temperatures	Extra Warm white (2700K)
Working temperature	Max. 45° C
Beam angle	17°/ 37°/ 60°/ 75°
Dimmeble	1-10V
IP rating	IP67
Material	Aluminium, PMMA
Dimensions	ø 120 mm, height 170 mm

Light output Lumen	***CRI***
4000 Lumen (2700K)	80 (2700K)

EVA Optic SL85

Type LEDs	High Power Chip LEDs
Energy consumption	85W
Color temperatures	Daylight white (5600K)
Working temperature	Max. 45° C
Beam angle	17°/ 37°/ 60°/ 75°
Dimmeble	1-10V
IP rating	IP67
Material	Aluminium, PMMA
Dimensions	ø 120 mm, height 170 mm

Light output Lumen	***CRI***
8800 Lumen (5600K)	70 (5600K)

EVA Optic SL25 RGBW

Type LEDs	High Power Chip LEDs
Wattage LEDs	4x25W (IPC)
Max. consumption	25W
Color temperature	RGBW (Red/Green/Blue/White)
Working temperature	Max. 45° C
Beam angle	17°/ 37°/ 60°/ 75°
Dimmable	DMX
IP rating	IP67
Material	Aluminium, PMMA
Dimensions	ø 120 mm, height 121 mm

Products

EVA-SL50-04-17 EVA Optic LED Spotlight SL50 50W Extra Warm white 2700K - 17 degrees light beam angle
EVA-SL50-04-37 EVA Optic LED Spotlight SL50 50W Extra Warm white 2700K - 37 degrees light beam angle
EVA-SL50-04-60 EVA Optic LED Spotlight SL50 50W Extra Warm white 2700K - 60 degrees light beam angle
EVA-SL50-04-75 EVA Optic LED Spotlight SL50 50W Extra Warm white 2700K - 75 degrees light beam angle

EVA-SL85-04-17 EVA Optic LED Spotlight SL85 85W Daylight white 5600K - 17 degrees light beam angle
EVA-SL85-04-37 EVA Optic LED Spotlight SL85 85W Daylight white 5600K - 37 degrees light beam angle
EVA-SL85-04-60 EVA Optic LED Spotlight SL85 85W Daylight white 5600K - 60 degrees light beam angle
EVA-SL85-04-75 EVA Optic LED Spotlight SL85 85W Daylight white 5600K - 75 degrees light beam angle

EVA-SL25-40-17 EVA Optic LED Spotlight SL25 4x25W RGBW - 17 degrees light beam angle
EVA-SL25-40-37 EVA Optic LED Spotlight SL25 4x25W RGBW - 37 degrees light beam angle
EVA-SL25-40-60 EVA Optic LED Spotlight SL25 4x25W RGBW - 60 degrees light beam angle
EVA-SL25-40-75 EVA Optic LED Spotlight SL25 4x25W RGBW - 75 degrees light beam angle

LED Spotlights | S6 IPX8

Technical specifications S6

Type LEDs	6x High power LEDs
Color temperatures	Daylight white (5000K), Warm white (2900K)
Lichtopbrengst	Min. 9960 cd tot max. 25800 cd
Energy consumption	30W - 102W (dimmable)
Power factor	> 0,93
Cosinus phi	0,94
Beam angle	24°/ 30°/ 36°
IP rating	IPX8
Driver/power supply	Separate from light (IP65)
Dimensions	300 x 150 x 96 mm
Weight	6 kg
Material	Aluminium, Polycarbonate
Cable type	6x1 mm²
Cable length light	2,5 m

The EVA Optic S6 is a unique industrial LED spot made of anodized aluminum. The spotlight is IPX8 rated (dust-free, waterproof) and is very suitable for use indoors and outdoors.

The IPX8 LED spot can be used both above and under water. Common applications include: fountains, ponds, lighting buildings, gardens, patios, bus stations, dive tanks and showrooms.

With 6 high-power chip LEDs, the S6 has a light output comparable to 800W halogen. The S6 is dimmable and has a power consumption of 30-102W. EVA Optic S6 is available in two color temperatures: daylight white (6500K) and warm white (3250K). There are lenses available for different beam angles: 24 ° / 30 ° / 36 °.
The light is also available as very wide flood.

Products

EVA-S6-24-01 EVA Optic S6 IPX8 LED 24° Spotlight incl. driver/voeding - Daylight White (5000K)
EVA-S6-24-02 EVA Optic S6 IPX8 LED 24° Spotlight incl. driver/voeding - Warm White (2900K)
EVA-S6-30-01 EVA Optic S6 IPX8 LED 30° Spotlight incl. driver/voeding - Daylight White (5000K)
EVA-S6-30-02 EVA Optic S6 IPX8 LED 30° Spotlight incl. driver/voeding - Warm White (2900K)
EVA-S6-36-01 EVA Optic S6 IPX8 LED 36° Spotlight incl. driver/voeding - Daylight White (5000K)
EVA-S6-36-02 EVA Optic S6 IPX8 LED 36° Spotlight incl. driver/voeding - Warm White (2900K)

LED Pendants | P90

EVA Optic P90

Type LEDs	Multichip LED array
Color temperature	Daylight white (5600K)
Light output LED	9000 Lm (at 5600K)
Energy consumption	90W
Power factor	> 0,97
THD	< 10%
IP rating	IP44
Material	Aluminium, PMMA cover
Dimensions fixture	ø 480 mm, height 560 mm
Dimensions heatsink	ø 120 mm, height 250 mm
Color casing	Grey

Thermal data:

Ta (ambient temperature surroundings):	22ºC
Tc (case temperature heatsink):	51ºC
Tj (junction temperature LED):	59ºC

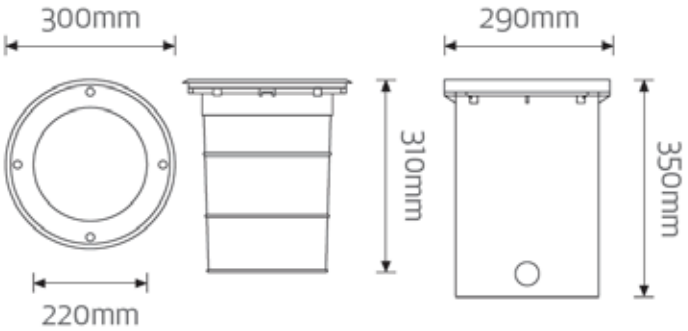
Products

EVA-P90-01 EVA Optic P90 LED Pendant fixture IP44 90W - Daylight white (5600K)

LED Ground Spots | GL-series

EVA Optic GL Series LED Ground Spot

Color temperatures	Daylight white (6000K) / Neutral white (4000K) / Warm white (3000K)
Beam angle	38º / 18º
Energy consumption	22W
IP factor	IP67
Material	Aluminium, RVS
Dimensions	ø 300 mm, height 310 mm, cut-out ø 290 mm
SELV	Yes
Tilt angle	20º
Weight	8,4kg
Bathroom zone	0



Types:

Article code	**EVA-GL38-01**
Color temperature	Daylight white (6000K)
Beam angle	38º
Energy consumption	22W
CRI	70
Luminous flux (lm)	1305
Luminous efficacy (lm/W)	59
Lux @1m (lx)	4200

Article code	**EVA-GL18-01**
Color temperature	Daylight white (6000K)
Beam angle	18º
Energy consumption	22W
CRI	70
Luminous flux (lm)	1221
Luminous efficacy (lm/W)	55
Lux @1m (lx)	14630

Article code	**EVA-GL38-03**
Color temperature	Neutral white (4000K)
Beam angle	38º
Energy consumption	22W
CRI	70
Luminous flux (lm)	1293
Luminous efficacy (lm/W)	59
Lux @1m (lx)	3500

Article code	**EVA-GL18-03**
Color temperature	Neutral white (4000K)
Beam angle	18º
Energy consumption	22W
CRI	70
Luminous flux (lm)	1104
Luminous efficacy (lm/W)	50
Lux @1m (lx)	12000

Article code	**EVA-GL38-02**
Color temperature	Warm white (3000K)
Beam angle	38º
Energy consumption	22W
CRI	85
Luminous flux (lm)	885
Luminous efficacy (lm/W)	40
Lux @1m (lx)	2900

Article code	**EVA-GL18-02**
Color temperature	Warm white (3000K)
Beam angle	18º
Energy consumption	22W
CRI	85
Luminous flux (lm)	961
Luminous efficacy (lm/W)	44
Lux @1m (lx)	10520

REFERENCES

Visit our website

www.evaoptic.com

for product information LED underwater lighting | LED line lighting | IPX8 LED spotlights | datasheets | installation manuals | dimensions accessories | demo video | project gallery| project references | news | Interesting articles regarding LED technology, light output, light color absorption of water, reflection & refraction, LED payback time, etc.

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www.evaoptic.com

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