

# Lighter, brighter pools

**LED technology is making swimming pool lighting brighter and more energy efficient than ever allowing operators to create the mood they want above and below the water.**

A RANGE of intelligent LED lighting solutions for swimming pools is now available in the UK.

The sustainable lighting options from Dutch manufacturer EVA Optic are designed to perform in aggressive pool environments and are protected against chlorine, moisture and high ambient temperatures.

The company's down-lights feature a chlorine-resistant coating and its LEDLine strip-lights utilise highly resistant anodised aluminium to maximise durability. Meanwhile, self-regulating heat control (ATS) helps to prevent premature failure and, as a result, units last much longer than lighting alternatives: up to 60,000 hours.

Compared with halogen equivalents, EVA Optic's underwater lighting uses up to 87.5 per cent less energy, while the ambient systems save around 85 per cent.

Providing uniformly bright illumination from wall to wall, various options and effects allow operators to set any mood from subtle or deep background colours to light shows above and below water.

The lighting systems are installed in the De Vrolijkheid



wet leisure complex in Zwolle, The Netherlands. Main contractor Pellikaan worked with pos4 architects to ensure the centre is as energy efficient as possible. As such, the complex features the latest eco-friendly technologies including low-pressure filters, high-efficiency air handling, full heat recovery, grey water circuit, biomass boiler and PV solar panning.

The complex has five pools, including two competition pools (six lane and eight lane), a training pool, recreational pool and paddling pool.

EVA Optic provided full lighting for the site's 4,200sq m pool hall. The developers and supplier worked to achieve a shared

also used for highlighting.

With 25m competition pools on site, compliance with FINA guidelines was essential. In this area, specified lighting levels were 500 lux throughout, rising to 600 lux at starting and turning points. Lighting within the water for these, as well as the training pool, is provided by A2 50W daylight white LED units.

In the 365sq m recreational pool, lighting levels are at their lowest – just 250 lux. A4 multicolour and white LED underwater lighting was used to create a fun, relaxed atmosphere for casual bathers. As with all of its underwater products, the A4 has been pressure-tested to 16 bar to ensure it can handle depths up to 25m.

EVA Optic also provided lighting throughout the 6,200sq m complex. In the entrance area, changing rooms, toilets, meeting and conference rooms, LED DL down-lights were used, while LED W wall and ceiling lights were specified in the plant room.

For effective central control and optimised economy, all lighting units were linked into the Building Management System (EIB/KNX).

The lighting systems comply with the relevant European standards for lighting levels (EN-12193) and emergency lighting (EN-1838). They can be retrofitted into existing facilities or incorporated into new designs.

[www.GCTrade.co.uk](http://www.GCTrade.co.uk)



vision, which included dimmable lighting throughout. LEDline strip-lights, LEDW wall and ceiling lights and LED SL spotlights were specified for general lighting. For added interest, spotlights were