

Press Release

Outdoor Insights 2024

Trends and innovations in outdoor lighting

Hardly any other area of application is under as much pressure to be modernized as outdoor lighting. Cities and municipalities are looking for solutions to reduce high energy costs, minimize the disruptive influence of night-time lighting on people and nature (CO₂ emissions, #DarkSky) and at the same time meet the highest demands in terms of safety and quality of stay. An overview of the most important trends, growth areas and solutions shows the answers TRILUX provides to the current challenges in the lighting market.

Quality - Low Contrast Light (LCL) technology for minimal glare

More well-being, less glare: As a pioneer in terms of light quality, TRILUX has developed Low Contrast Light technology (LCL) for outdoor luminaires. It can be used to reduce the perception of glare without reducing the brightness of the luminaire itself. The result is greater visual comfort, safety and a particularly pleasant light. The technology is particularly interesting for use in inner-city areas, such as pedestrian zones, residential streets, parks and green spaces. LCL is initially available for the TRILUX Lumantix range of post-top luminaires (mushroom, cylinder, cone) and for the ConStela 19 column luminaire.

Sustainability - understanding the outdoors as a living space

For years, the quest for greater energy efficiency has been one of the strongest drivers of refurbishment in the outdoor area. Converting conventional outdoor lighting to LED and light management reduces energy consumption by up to 80 percent. This also reduces energy costs and CO₂ emissions. A further component of sustainable outdoor lighting is light that takes into account the needs of insects, birds and plants as well as the safety and visual comfort requirements of passers-by.

With this focus, TRILUX is continuously developing its outdoor portfolio. With the **LiveLink Outdoor light management system**, smart outdoor luminaires can be quickly, easily and securely networked and controlled wirelessly - and the benefits of light control can be exploited without effort or risk. By integrating intelligent sensors and light management, the illuminance levels are individually adapted to the surroundings, thus reducing energy consumption and light emissions to a minimum at night.

Thinking about the environment - the smart Lumega IQ N

The Lumega IQ N outdoor light is a prime example of sustainability. It is not only particularly efficient and economical to operate. Well over twenty different light distribution curves and the innovative MLT IQ multi-lens technology ensure that light only reaches where it is really needed - for perfectly illuminated streets, paths and squares and the most undisturbed nature possible. To protect the night sky, the luminaire does not emit any stray light into the upper half-space, #DarkSky. Further ecological plus points: A high protection rating (IP66) and low housing temperature prevent flying insects from burning on the luminaire or penetrating it. What's more, by choosing an insect-friendly light color, the attraction of moths and other insects can be reduced. And because light management pays off both economically and ecologically, the Lumega IQ N is also available smart and networked on request.

Big tasks, big possibilities - Lumena Plus 80/90

Wherever high luminous intensities are required outdoors, smart LED solutions offer great potential - for example in terms of efficiency, intelligence and flexibility. TRILUX has therefore developed the Lumena Plus 80/90 planar floodlight especially for large-area sports and industrial facilities. Typical of the floodlights are not only top values for efficiency and service life, but also customized, high-precision light control using MLT IQ lenses - for excellent quality of light with luminous flux packages of up to 190,000 lumens. The Lumena Plus 80/90 is particularly efficient and sustainable in combination with the LiveLink light management system. This enables, for example, intelligent lighting control with customized time- and usage-dependent lighting scenes for minimal energy consumption. "In sports facilities, dynamic lighting scenes bring a completely new atmosphere to the pitch, for example during goal celebrations," adds Jörg van de Loo, Head of Product Management Outdoor, explaining the areas of application.

Light close to the building - holistically planned

Holistic lighting design ensures that there are no disruptive gaps between the interior lighting, the building envelope and the area around the building, for example in terms of design, quality of light or smartness. In line with this, TRILUX offers a wide-ranging portfolio with many award-winning solutions that meet even the highest technological and aesthetic demands for outdoor lighting - whether surface-mounted or recessed solutions, decorative spotlights, light lines or bollards for excellent path lighting. This makes the lighting in the area around the building a central design element that enhances the transition between the building and the public space.

Highly flexible solutions such as the Skeo range, which meets every requirement with its flexibility in terms of lighting technology, designs and installation types, are particularly popular in outdoor areas. The 8841 bollard luminaire is already a classic in outdoor areas. It enables light point distances of up to 14 meters instead of the eight meters that are otherwise typical for the sector - and impresses with its simple aesthetics and timeless elegance.

Picture gallery



[Photo: TRILUX_ Low Contrast Light]

TRILUX brings Low Contrast Light technology to the outdoor area. The special design of the optical system reduces the perception of glare without having to lower the brightness.

Photo: TRILUX



[Photo: TRILUX_ LiveLink Outdoor]

Converting to LED and the LiveLink Outdoor lighting management system reduces energy costs for lighting by up to 80 percent. In addition to daylight and presence control, LiveLink Outdoor also offers many other clever functions, such as tracking light.

Photo: TRILUX



[Photo: TRILUX_ Lumega IQ N]

Particularly sustainable: the Lumega IQ N does not emit any stray light into the upper half-space. Its low housing temperature and high protection rating prevent flying insects from burning or penetrating the luminaire.

Photo: TRILUX



[Photo: TRILUX_ Lumena Plus 80/90]

Developed for large sports and industrial areas: The Lumena Plus 80/90 planar floodlight brings quality and efficiency into play. Tailor-made MLT optics ensure perfect light control. Everything can be smart and networked on request.

Photo: TRILUX

About TRILUX

TRILUX SIMPLIFY YOUR LIGHT represents the most simple and reliable path to customised, energy-efficient and future-capable lighting solutions. In the dynamic and increasingly complex lighting market, customers are provided with optimal advice, ideal orientation and perfect light. In order to ensure this claim TRILUX accesses a broad portfolio of technologies and services as well as efficient partners and companies within the TRILUX Group. The lighting specialist brings together individual components to create tailor-made complete solutions – always perfectly matched to customer requirements and the field of application. This allows complex and extensive projects to be simply and rapidly implemented from a single source. According to the principle of SIMPLIFY YOUR LIGHT, easy planning, installation and use is the focus of customer solutions in addition to quality and efficiency.

The TRILUX Group operates six production sites in Europe and Asia and serves international customers through 30 subsidiaries and numerous sales partners. The lighting division includes the brands TRILUX SIMPLIFY YOUR LIGHT, Oktalite and Zalux. Affiliated companies include Crosscan, ICT and the online platform watt24. As the department for research and development, the Innovation Center bundles the innovative strength under the TRILUX umbrella. With locations in Germany, Austria, the Netherlands, Belgium, Great Britain, France, the United Arab Emirates, Switzerland, Poland and Spain (digital) the TRILUX Academy provides the necessary know-how on topics, trends and innovations in the lighting industry. The headquarter of TRILUX is located in Arnsberg.

Further information at www.trilux.com

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