Light is quality of life
Intelligent lighting solutions for towns and communities

Light is OSRAM

Our Brands

OSRAM
Public Lighting | OSRAM Lighting Solutions

Enjoy the lights of the city

Safety, functionality and visual appeal – residents place diverse expectations in their municipality. And many of these have to do with light.

Life is vibrant in many communities, towns and cities – thousands of cars travel from A to B each and every day on main roads. This traffic comes together with pedestrians and cyclists on collecting roads. People in residential streets wish to travel safely with cars, bicycles or on foot to their flats and houses. In pedestrian zones people want to enjoy the urban flair and take advantage of the various culinary offers of the city.

People seeking peace and quiet come together with nature-lovers and the sports-active in public parks to get away from the stress of everyday life.

Something frequently not noticed: light plays an important role in all of these areas. Intelligent lighting solutions provide greater safety and a pleasant atmosphere particularly in the evenings and at night.

On the one hand they ensure safety via correct installation, illuminance according to standards, balanced light distribution and minimum glare. On the other they blend ideally into the overall context of the architecture, and thanks to various light colours create a wide diversity of light atmospheres, contributing to atmosphere and ambience during the day as well with their attractive designs. Safety is increased due to uniform, low-glare illumination of the plane and a reduction of dark zones. Squares and special architecture are ideally displayed with decorative or dynamic lighting to become safe and appealing centres of attraction in the evenings. And all with high energy efficiency to save costs and protect our resources.

What do vertical and horizontal illuminance achieve?

Good horizontal illuminance achieves the uniform illumination of planes and therefore an improved perception of the surroundings. Good vertical illuminance reduces shadowing, enabling better recognition of faces among other factors. OSRAM luminaires with reflector technology are particularly successful in fulfilling such preconditions.

Your light. Our passion.

OSRAM Lighting Solutions sets new standards in terms of innovative, customised and high-performance lighting. Our passion, decades of experience and profound expertise with light enable lighting solutions to be designed for a sustainable future.

With our four flagship brands of OSRAM, Siteco, Traxon Technologies and e:cue along with our global network of experts, we offer intelligent, flexible and future-safe solutions and services precisely where you need them – directly on location – worldwide.

OSRAM

OSRAM has dedicated itself to light for more than 100 years and is one of the world’s leading lighting manufacturers. The continuous advancement of conventional lighting towards LED technology and intelligent lighting solutions underlines the ambition of OSRAM to continuously improve the quality of light via optimum products and solutions equipped with state-of-the-art technology.

Siteco

Siteco is one of the leading manufacturers of technical indoor and outdoor lighting. Thanks to many years of expertise, Siteco decisively shapes modern lighting technology and provides premium LED lighting solutions as well as expertise with special project solutions on a global scale. Siteco has been a member of the OSRAM group of companies since 2011 and is a specialist for premium indoor and outdoor lighting products and solutions.

Traxon

Traxon Technologies is the specialist for dynamic LED lighting solutions. The company has been implementing professional, creative and decorative lighting projects for years – ranging from atmospheric retail lighting and the stylish display of bridges to inspiring stadium facades.

e:cue

e:cue control is a leading provider of high-quality control and automation solutions for dynamic lighting. With an innovative portfolio in combination with software and hardware products, e:cue develops the right control solution for any lighting installation.

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DL® 20

A stylish and efficient luminaire for towns and cities

A road luminaire with outstanding design, high-efficiency LED technology and excellent optics: the DL® 20 LED from Siteco stands for cost-efficient lighting with maximum visual comfort and a real feel-good factor, and is destined for the standard-compliant illumination of residential and collecting roads as well as for the atmospheric lighting of parks and town squares. The DL® 20 – a genuine enhancement in any town or city.

At a glance

- For residential roads, collecting roads, cycle paths, parks and squares
- High-efficiency LED technology and optimised lighting technology for best possible glare control and outstanding quality of light
- Flexible installation options: mounting heights 4 to 6 m, mast spacing to max. 42 m
- Diverse design possibilities due to three light distributions and two light colours (neutral white and warm white)
- Intelligent, individual control systems for needs-oriented luminous flux adaptation and lower operating costs
- Long service life up to 100,000 hours (L95/B10)

The DL® 20 LED can be specifically used as a design object and for increasing the appeal of urban environments, for either specific showcasing or the discreet integration into existing ensembles. The optical concept specifically developed for the DL® 20 ensures differentiated lighting solutions for various road and town square environments. This enables the standard-compliant lighting of through-roads, residential streets and areas, parking lots, parks and other open areas, cycle paths and footpaths according to requirements - variable uses with a single luminaire type.

DL® 20 design masts

Attractive light points for improving the urban flair.

Suitable for 3-6m mounting heights
Aluminium mast
Mast spigot Ø 76 mm, L=168 mm

For more information on decorative masts, please contact our sales representatives.
DL® 30
Redesigning decorative streetlighting with superior product design

Good design is not just about good looks but applies to all components of a product, providing best possible utilisation and a qualitative appearance. The DL® 30 in this sense meets all aspects of good design, combining a modern construction form with strong aesthetic appeal, mature LED technology with strong performance values and a purist, highly durable and extremely stable luminaire concept.

The DL® 30 consistently implements the possibilities of LED technology in a completely new post-top luminaire – featuring four reflector geometries and two light colours for maximum design flexibility. And all in one modern, pioneering construction for the consistent, uniform design of residential streets, plazas, shopping boulevards, green areas and parking spaces.

At a glance
- A single luminaire type for diverse applications (four light distributions, two light colours)
- High efficiency and long lifespan due to matched components (up to 119 lm/W and up to 100,000 h (L80/B10))
- Vandal-proof (IK08)
- Permanently clear, translucent PMMA cover
- Extremely simple mounting and tool-free maintenance/repair
- Also available for crossing areas (ST1.2c) with a special light distribution
- Innovative control functions with the PLUS version – the CLIXX.0 constant luminous flux function additionally compensates for long-term thermal ambient effects
- PREMIUM version with extensive innovative control functionality
- Centrally controlled intelligent light for optimum operating management

High quality of light and visual guidance – the DL® 30 creates a pleasant ambience and facilitates orientation on the road

Many LED road luminaires mainly emit high quantities of light onto roads but the DL® 30 does much more, converting the high luminance values of the LEDs into glare-free light with harmonious transitions in luminance.

The optical guidance of the DL® 30 is a special feature: precisely defined quantities of stray light are emitted onto the mast mounting element and reflected by its surface. This effect is so discreet that residents are not disturbed and are not exposed to glare, and it also has a marking function to support orientation and improve perception of the road section.

DL® 30 design masts
The lower section of the mast references details of the luminaire design and accentuates the overall impression with various surface characteristics and shadow effects.

Suitable for 3-6m mounting heights
Aluminium mast
Mast spigot Ø 76 mm, L=100 mm

For more information on decorative masts, please contact our sales representatives.
DL® 50
The right solution for any application

A single luminaire range for highly diverse tasks. The DL® 50 LED is available as both a mast and catenary luminaire, and thanks to various light distributions and three light colours is ideal for applications throughout towns and cities – ranging from historic plazas and new residential roads to narrow paths in parks and multi-lane collecting roads.

Good design is simple, clear and convincing. With its uniform style of design, the DL® 50 range of luminaires provides new options for urban lighting. The basis is a housing concept featuring two construction sizes, with the design referencing the characteristic basic form of technical decorative road luminaires in a discreet but concise way.

In terms of technology DL® 50 exploits all the advantages of innovative LED road luminaires, and now especially with the second generation of LED modules. Long-term cost benefits are provided via improved efficiency, long service life and almost complete freedom from maintenance. Suitable control options such as the new constant luminous flux tracking (CLO 2.0) enable further optimisations.

A luminaire family in perfect style

At a glance
- Complete family for technical decorative road lighting with lumen packages from 1400 lm to 15,150 lm
- High efficiency and long lifespan due to precisely matched components
- Standard-compliant road lighting with consistent, integrative design
- Flexible mounting options as post-top, side entry and catenary luminaires
- Innovative control functions
- Simple installation with pre-assembled connection cable
- Catenary luminaires with additional light distribution (ST0.5s) for narrow roads

A complete range of design brackets for urban landscapes
The brackets specifically designed for DL 50 feature modern, dynamic lines that simultaneously design and structure the urban appearance.

Suitable for 6-10 m mounting heights
- Conical round mast, steel
- Mast spigot Ø 76 x 100 mm
- Side-entry 60 x 100 mm
- Cast aluminium mast bracket
- Single bracket length: 1200 mm

*With optional rear luminaire connection for path lighting.
For more information on decorative masts, please contact our sales representatives.
Module 540 for town and park luminaires
The innovative design of outdoor spaces

The level of urban appeal and quality of life is determined by individual well-being and lighting plays a major part in this. The appearance of lighting influences its surroundings, with form and design playing a primary role during the day and the quality of light at night. Both directly influence the feeling of safety, personal well-being and identification with the surroundings.

Our town and park luminaires and the 2nd-generation LED Module 540 enable this to be individually planned and designed. The LED Module 540 meets this requirement for town and park lighting better than ever before – one module for nine different luminaire types in highly diverse urban applications.

The modular future of urban lighting

The future of town and park lighting begins with the LED Module 540. The module is characterised by a high level of visual comfort and unique optical control, as well as innovative LED technology that also achieves a high level of acceptance with residents.

Just one module for a wide diversity of applications - a need supplied to perfection for town and park lighting with the LED Module 540: a single module for nine different luminaire types. Elegant and efficient, the Module 540 provides a substantial energy and cost-saving contribution to sustainable outdoor lighting in towns, cities and communities.

At a glance
- One module – 100% compatibility with the luminaire ranges CITY LIGHT, CITY LIGHT Pillar, LANTERN and MUSHROOM
- Easy mounting, low maintenance and interchangeable due to future-safe module construction
- Uniform illumination of the road with very good glare control
- Luminous module body as a visual guidance element in road traffic with decorative day/night time effect
- High efficiency and long lifespan due to precisely matched components
- Design flexibility with differing light colours (3000K, 4000K)
- Precise lighting design via defined light distributions
- Innovative control functions for individual light management requirements with PLUS and PREMIUM versions
Streetlight 11

LED lighting in towns and cities

Everyone’s talking about smart cities. Streetlight 11 makes them possible. A modern design, high quality of light, efficient performance and reliable functionality? Simple operation, low maintenance complexity, intelligent light control, a future-fit luminaire concept, state-of-the-art technology and ready for integrating smart solutions beyond light? A new road luminaire in the form of Streetlight 11 is on the way to already fulfilling the complete bandwidth of light requirements in modern towns and cities—as well as in tomorrow’s smart cities.

Streetlight 11 – the intelligent solution for modern, efficient road lighting and smart city applications. The new Streetlight 11 range of luminaires is ideal for the attractive, efficient and economical lighting of roads, paths and plazas with mounting heights from 3 to 12 metres. Thanks to even more intelligent, also radio-based (RF) light control, Streetlight 11 already fulfills all preconditions for both today’s and tomorrow’s smart city applications.

Universal application options
— Main roads/collection roads
— Ancillary roads/residential streets
— Cycle paths/pedestrian paths
— Pedestrian crossings
— Railway platforms/tracks
— Car parks

At a glance
— Innovative mounting and maintenance concept for: adjusting the mast flange (patented), opening the luminaire, replacing the ECG gear tray, exchanging the module – all without tools
— State-of-the-art LED technology: up to 100,000 hrs. (L90/B10) with efficiency of 135 lm/W
— Flexibility thanks to highly diverse light distributions also for narrow streets and curved bracket masts
— Sustainability due to environmentally friendly production and disposal concepts
— Long-life and robust thanks to diecast aluminium housing and IP66 for the complete luminaire
— LED module cover of non-yellowing, impact resistant PMMA with higher transmission factor
— Interchangeable for subsequent expansion with external sensors**

**available from 2018

Streetlight 11

A complete luminaire family with three sizes, an attractive design and modular technology

The Streetlight 11 range is a high-performance, flexible solution for almost all technical outdoor lighting applications. With state-of-the-art technology, a variety of construction sizes and its flexible, modular approach, Streetlight 11 sets standards in terms of application-oriented project implementations.

All luminaires also feature the same appealing design with a modern, uniform look, qualitative materials and perfect workmanship.

The future-oriented, modular luminaire concept of Streetlight 11 is optimised for:
— Mounting and maintenance
— Spare parts management and stocking
— Flexibility and expandability with controllers and sensors for smart city applications

Cover opened without tools: simple, quick maintenance

Simple subsequent retrofitting with control components and sensors

Tool-free exchange of the ECG gear tray

With air-permeable membrane due to simplified spare parts management and environmentally friendly disposal concept

Integrated ECG protection for wood, concrete and plastic masts

Durably diecast aluminium housing (IP66) with high impact resistance (R10), powder-coated (RdB10)

Outstanding thermal management with elegant design and without cooling ribs

Drip rim on the housing prevents soiling of the luminaire glass

Most flanges for Ø2, Ø3 and 76 mm

For post top and site-entry mounting (+15° to +15°) with tool-free setting and fixing to the housing

Light can be adapted to various road widths by setting the inclination angle
Streetlight 20
The economical solution
Efficient operation, highly durable, with low maintenance, reliable quality and high quality of light for safety and well-being: the Streetlight 20 is a practical range of mast luminaires with lens technology suitable for cycle paths, business facilities, residential streets, collecting roads and multi-lane carriageways. The luminaires feature light distribution characteristics and lumen levels precisely matched to the application. The Streetlight 20 is available in two versions with all construction sizes, one with optimised efficiency and the other with higher lumen output.

At a glance
— Four construction sizes for applications in all lighting classes with mounting heights from 3–14 m
— Uniform, integrative luminaire design
— Three light colours for differing design concepts (mini, micro and midi also in amber version)
— Extremely long service life and very efficient continuous operation
— Simple, sustainable module concept for rapid mounting and safe module replacements on the mast (ESD protection)
— High tightness (IP66) with extremely robust workmanship
— Optional control packages for greater flexibility, convenience and efficiency

The Streetlight 20 family

Streetlight 20 micro
— For residential areas and footpaths
— Mast spacing: to 50 m
— Colour temperature: 3000 K, 4000 K
— Mounting: side entry or post-top
— Varies from 1750 to 3490 lm

Streetlight 20 midi
— For residential roads, ancillary roads and squares in town centres
— Mast spacing: to 50 m
— Colour temperature: 3000 K, 4000 K
— Mounting: side entry or post-top
— Varies from 3510 to 6680 lm

Streetlight 20 maxi
— For main roads, roundabouts, squares, parking lots, distribution areas, industrial areas
— Mast spacing: to 50 m
— Colour temperature: 3000 K, 4000 K
— Mounting: side entry or post-top
— Varies from 5200 to 14,000 lm

Simple maintenance and manageable energy consumption
Streetlight 20 luminaires provide added value in the long run due to long-lasting components, an intelligently designed system and good workmanship.

Luminous flux reduction (StepDIM)
Making the most of all savings potential – the basis is the mature and intelligent technology of the Streetlight 20, which in itself is highly efficient. Its unbeatable advantage is its stepless and loss-free reduced mode.

You decide: brighter or more efficient
According to version, luminaires are equipped with differing functionality ranges for light management and monitoring – always matched to the specific lighting requirements:
— The standard version is highly efficient with a longer service life. This enables you to simply optimise operating costs.
— The Power version features maximum luminous flux, meaning you install less luminaires and therefore save on investment overheads.

Consumption data (W)

<table>
<thead>
<tr>
<th>Luminous flux</th>
<th>25 W</th>
<th>50 W</th>
<th>100 W</th>
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<tr>
<td>100 % luminous flux</td>
<td>0.4 W</td>
<td>0.6 W</td>
<td>0.8 W</td>
</tr>
<tr>
<td>50 % (luminous flux reduction at night)</td>
<td>0.2 W</td>
<td>0.4 W</td>
<td>0.6 W</td>
</tr>
</tbody>
</table>

Double ESD protection:
The Streetlight 20 LED provides added value in the long run thanks to quality and good workmanship.

Tool-free module replacement:
Double ESD protection:

The module is protected from ESD.

Extremely high tightness:
— A long system service life – always matched to the specific lighting requirements
— Extremely high tightness (IP66). An air-permeable membrane prevents condensation in the inner of the luminaire.
— High tightness (IP66) with extremely robust workmanship
— Optional control packages for greater flexibility, convenience and efficiency

High overvoltage protection:
— Streetlight 20 LED to survive overvoltage caused by switching due to long-lasting components, an intelligently designed system and good workmanship.

Continuous self-cleaning effect:
— The luminaire housing with smooth surfaces, soft edges and Siteco® grey metallic (DB702S) powder coating achieves complete water drainage and rapid drying. Due to this reason when planning with conventional lamps the overdimensioning is necessary, achieving minimisation of power and good workmanship.

Optimal control packages for greater flexibility, convenience and efficiency

Extremely high tightness:
— Streetlight 20 luminaires provide added value in the long run thanks to quality and good workmanship.
Floodlight 20
Precise, efficient and performative

The Floodlight 20 family (micro, mini and midi) enables sports lighting and planar lighting around buildings to be implemented with high efficiency, and with maximum demands in terms of quality of light, functionality, design and individual needs. The key to such flexibility is the platform concept and modular design of the complete system. The result is a solution that in terms of appearance and functionality comes from a single cast, for a wide diversity of applications including the illumination of plazas, traffic routes, loading systems and container terminals as well as further versions for airport apron lighting and facade illumination in building-vicinity areas, and the TV broadcast-compliant illumination of sports locations with HDTV and super slow motion quality.

The family design has been consistently implemented across all constructions: all sizes have identical proportions, the same high quality of materials and appearance. Photometrically they all feature the same lens-based LED platform with precise light control and glare-minimised optics, for maximum quality of light and best visual comfort. The principle of construction is also identical – each construction size consists of three functional units: the LED module, the housing with ECG and the mounting components. This provides maximum convenience during installation, and also a future-safe investment thanks to the modular design and high quality.

Floodlight 20 design masts
For the attractive and individual design of individual light points.

**Etna** – Floodlight 20 mini
- Suitable for 5-8 m mounting heights, conical mast, steel | side entry 75 mm, mast spigot Ø 60 mm L=90 mm
- Aluminium mast bracket

**Stromboli** – Floodlight 20 midi
- Suitable for 8-14 m mounting heights, conical mast, steel | side entry 89 mm, aluminium mast bracket

**At a glance**
- Precise lighting design thanks to pre-defined light distributions for squares, roads, industrial facilities and business parks: further versions also for floodlighting and sport
- Design flexibility via differing light colours (3000K, 4000K, 5000K)
- Future compatibility due to upgradable and ESD-protected modular design
- Robust, weather-resistant housing of diecast aluminium
- Rapid mounting and simple handling due to adjustable mounting bracket and practical connections (wall, mast, cross-arm)
- Long service life: up to 100,000 hrs. (L80/B10)
- High system efficiency: up to 120lm/W
- Ambient temperature: interior -25 to +40°C, exterior -25 to +50°C
- PLUS versions with innovative control functions for individual light management requirements

Light into every corner
Floodlight 20 enables the uniform illumination of spaces and squares without dark zones or overlaps.

Developed for plazas and spaces
Greater convenience thanks to new technology – innovative LED technology enables precise light control. The Floodlight 20 range features a system of light distributions specifically developed for illuminating areas and squares. Rectangular spaces are now illuminated even more homogeneously and right into their corners compared to previous reflector concepts and traditional lamps.

Standard-compliant light for adjacent paths
Thanks to high quality of light and precisely specified light distribution characteristics, Floodlight 20 LED is also suitable for adjacent roads and logistics areas. This also makes the luminaire a strong solution for illuminating approach routes.

A high quality of stay for indoor areas
Whether in railway halls, display areas or shopping arcades, the high light quality of Floodlight 20 with uniform distribution of luminance and good colour rendering enables indoor applications with a high quality of stay.

Showcasing facades and advertising spaces
The first impression counts. Floodlight 20 LED features light distribution characteristics achieving ideal lighting results for facades and advertising spaces, providing a uniform atmosphere for outside areas ranging from shopping centres and public facilities to facades and access routes.
Get ready, set, light!

Good light is needed wherever rapidity, precision and quick, pivotal moments occur – for athletes, referees and observers. This is not a question of personal liking but is objectively measurable using various quality attributes.

With sports lighting the following rule of thumb applies: the quicker the sports discipline and the more compact the sports equipment, the more light is needed – horizontal and especially vertical illuminance is essential for spatial perception.

The Floodlight 20 range is the ideal lighting solution for such needs, whether for field sports, sports halls, tennis courts, golf courses, riding tracks, swimming pools or even ski slopes.

Floodlight 20 is ideal for the needs-oriented illumination of sports facilities. The range of floodlights is available in four construction sizes with rated luminous flux of up to 110,000 lm. The special lens optic ensures precise light control, minimises glare and achieves optimum quality of light and efficiency. The modular design of the floodlight range consists of a housing with electronic control unit, ESD-protected LED module and fixing element, enabling simple installation and maintenance and easy module upgrades.

At a glance
- LED floodlight for illuminating wide spaces and sports facilities
- Efficient operation (up to 122 lm/W) with long service life and minimised maintenance
- Simple mounting and quick installation
- 100% light immediately after switching on due to integrated driver with low inrush currents
- Future-safe, resource-protecting modular concept
- Flicker-free light for video recording also in slow motion
- Minimised light spill due to asymmetric light distributions
- Various light distributions according to application and sports discipline
- PLUS versions have innovative control functions for individual light management requirements
SiCOMPACT®
Simple and highly efficient

Robustness on the one hand and quality of light on the other: SiCOMPACT™ has both. The luminaire is based on the reliable SiCOMPACT™ floodlights with conventional technology and is the “little brother” of the successful Floodlight 20 range, the premier choice for renowned lighting projects around the world. The superior LED technology and design concept of the range were the driving force for this family of floodlights.

Bringing together quality of light and efficiency is technically challenging and is not self-evident in the sector of compact, simple planar lighting. SiCOMPACT™ now provides a simple solution offering good, efficient planar light with a convincing price in the era of LED.

OPTICALIGHT
Extremely high quality projection lighting

Showcasing buildings with a completely unique concept – this is now possible with the projection lighting of our partner OPTICALIGHT. Precise, homogeneous illumination of facades is ensured by positioning the projectors at wide distances from the building. The result is a clearly visible facade without glare or light spill.

The targeted illumination of architectural stylistic features: the OPTICALIGHT concept
To achieve uniform, precise results with the clear bordering of specific non-illuminated areas (e.g. windows, thereby avoiding glare for residents) a combination of masked projectors is used that each illuminate a predefined area. In this way high precision is achieved despite wide distances of several dozens of metres.

Floodlights  |  SiCOMPACT™

At a glance
- Ideal refurbishment solution for floodlights with conventional technology and up to 5x larger illuminated plane
- High flexibility in all applications due to three construction sizes and rated luminous flux from 4000 to 23,800 lm
- Simple, quick installation with one mounting bracket and pre-assembled connection cable
- Efficient operation with up to 120 lm/W and asymmetric narrow light distribution
- Reliable technology with long service life (60,000 hrs. L70/B50)
- Robust housing and ESD-protected LED module (sealed for life), IP66, dustproof, vibration stability with 250,000 tested strikes
- Can also be used as an uplight

Floodlights  |  OPTICALIGHT

At a glance
- A complete solution with consistently high quality
- No light spill
- Optimal glare protection
- Energy-efficient process
- Permanently weather-resistant
- Long maintenance intervals
- Simple, precise modification of scenes without adjustment
- Long service life
Nano Liner Allegro
Highly efficient, economical, compact

Nano Liner Allegro AC XB is a high output, energy efficient, ultra slim linear lighting solution for outdoor environments. Powered directly with AC line voltage, the slender Nano Liner Allegro AC XB is ideal for many types of exterior architectural, retail, and hospitality applications. Equipped with flicker-free phase cut dimming capabilities, it offers a broad range of colors including RGB, three (white) CCT options, and Dynamic White, four fixture lengths, and two beam spreads, making it suitable for a wide range of wall grazing, linear, and indirect illumination where a cost-effective, low-profile solution is required. Nano Liner Allegro AC XB’s simple Plug’n’Play cabling and connection make installation quick and easy, even in small spaces.

At a glance
Powered by AC line voltage
AC line voltage (120V/ 230V/ 277V) eliminates the need for external power supplies and enables extended run lengths up to 50 feet (120V), 80 feet (230V), or 90 feet (277V).
High output and efficacy
23 lm/W (RGB); 60 lm/W (3000K); 65 lm/W (4000K); 300 lumens per foot (RGB version) and 635-865 lumens per foot at 11 watts per foot (white versions).
Multiple color options
Controlled via DMX512, the extremely efficient RGB LEDs are capable of producing a dynamic range of 16.7 million colors to create nearly any imaginable illumination scenario. Three white options with dedicated color temperatures including 3000K, 4000K, 6500K, and Dynamic White lend sophisticated ambiance to various outdoor environments.
Multiple fixture lengths
Available in one-foot, two-foot, three-foot, and four-foot lengths, Nano Liner Allegro AC XB easily accommodates varying installation space requirements.
Phase cut dimming
Nano Liner Allegro AC XB’s three white product versions offer 5% – 100% dimming resolution without flickering.
Flexible aiming
The product is equipped with a 180° rotation axis for flexible beam aiming.
Two beam options
40° and 50° x 10° spreads offer gentle illumination or more focused grazing.
Simple cabling and connection
Nano Liner Allegro AC XB’s simple Plug’n’Play connection can be daisy-chained, enabling easy installation and lowering maintenance costs.

At a glance
Operation with mains AC voltage
Mains operation (120V, 200V, 230V, 277V) saves on external power supply units and enables extensive series switching.
High output power and high light output ratio
RGB: 26 lm/W at 1340 lm DW: 49 lm/W at 2526 lm
3000K: 54 lm/W at 2361 lm
4000K: 66 lm/W at 2918 lm
6500K: 82 lm/W at 3629 lm
Diverse colour options
Extremely efficient RGB LEDs reproduce a spectrum of 16.7 million colours for almost any imaginable lighting scenario. Three white versions with colour temperatures of 3000K, 4000K, and 6500K as well as dynamic white create the right atmosphere for a wide range of outdoor installations.

Washer Allegro AC XB
Simple, compact and high-efficiency outdoor Lighting

Washer Allegro AC XB is a high-performance, energy-efficient and compact LED luminaire for outdoor areas. Operated directly with mains voltage, the luminaire is ideal for highly diverse applications in outdoor architecture, commerce and the hospitality sector. Available in RGB and Dynamic White with various beam angles, Washer Allegro AC XB is suitable for a wide application range with planar illumination and direct / indirect illumination. Simple plug & play cabling means that installation is easy and saves time.

At a glance
Operation with mains AC voltage
Mains operation (120V, 200V, 230V, 277V) saves on external power supply units and enables extensive series switching.
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Diverse colour options
Extremely efficient RGB LEDs reproduce a spectrum of 16.7 million colours for almost any imaginable lighting scenario. Three white versions with colour temperatures of 3000K, 4000K, and 6500K as well as dynamic white create the right atmosphere for a wide range of outdoor installations.

Dimming with forward phase control
The white versions of Washer Allegro AC XB can be dimmed without flicker from 100% down to 5%.
Flexible alignment
An adjustable bracket enables flexible alignments. 7°, 20°, 30° and 40° beam angles create either soft illumination or focused emphasis.
Simple cabling
Washer Allegro AC XB’s simple cabling system enables plug & play, series switching, quick installation and low maintenance costs.
Liner Quattro AC XB
Intelligent, high-efficiency planar illumination

Liner Quattro AC XB RGBW is a performative and energy-efficient luminaire with a complete RGBW colour spectrum. An IP66 protection rating means it is suitable for outdoor applications. It also predestined for architectural facade and planar illumination with dynamic colour chases. As an intelligent outdoor luminaire Liner Quattro AC XB RGBW provides outstanding mixing of light in the near field due to the configuration of LEDs in clusters.

Flexible mounting options enable facade and planar illumination with high luminous flux of 1494 lm (with the 600 mm version) and 2922 lm (1200 mm version). Active temperature monitoring ensures longer LED lifespans compared to other luminaires in this category. RDM (Remote Device Management), simple configuration and flexible DMX addressing simplify system installation and maintenance for the high-efficiency illumination of office buildings, shopping centres, bridges, hotels and stadiums.

At a glance
- Mains AC voltage operation
- Complete RGBW colour spectrum
- Seamless colour mixing

Configuration
- DMX control with Remote Device Management, simple configuration and auto-addressing.
- Long service life
- Due to active luminaire overtemperature protection. Also suitable for use near to coastlines.
- Several lengths
- Can be supplied in 600 mm and 1200 mm variants for different length requirements.

Washer Quattro AC XB
Intelligent and high-efficiency facade lighting

The intelligent and high-lumen output LED Washer Quattro AC XB RGBW features outstanding mixing of colours in the near field. The luminaire fulfills all preconditions for use in highly diverse applications due to good illumination performance and a range of beam angles. Washer Quattro AC XB RGBW can be flexibly installed for diverse application ranges – offering ideal preconditions for wallwashing and facade illumination.

The active overtemperature protection of the luminaire extends the service life of its LEDs compared to other luminaires in the same category. Remote Device Management as well as simple configuration and addressing make Washer Quattro the ideal lighting tool for the powerful illumination of office buildings, shopping centres, bridges, hotels and stadiums. With its precision optics, Washer Quattro AC XB RGBW is an energy-efficient, IP66-protected luminaire for outdoor use with a complete RGB+W colour spectrum. It is the ideal choice for facade lighting with dynamic colour sequences or for floodlighting with high luminance needs.

At a glance
- Mains AC voltage operation
- Complete RGBW colour spectrum
- Flexible alignment

Configuration
- DMX control with Remote Device Management, simple configuration and auto-addressing.
- Long service life
- Due to active luminaire overtemperature protection. Also suitable for use near to coastlines.
- Several lengths
- Can be supplied in 600 mm and 1200 mm variants for different length requirements.

Flexible alignment
- An adjustable bracket enables flexible alignments.
- Various beam angles
  - 13°, 30°, 40° and 60° create either soft illumination or focused emphasis.
- Long service life
  - Active luminaire overtemperature protection. Also suitable for use near to coastlines.
The CL range
Perfect workmanship with a purist design

A concise design and brilliant light: with its sophisticated platform concept, the CL family ensures variable and harmonious outdoor lighting around buildings. Qualitative LED technology and outstanding lighting technology achieve high quality of light with good colour rendering for optimal orientation and pleasant atmospheres in entrance zones and on paths and facades.

At a glance
- High quality luminaire concept with award-winning design (iF Design Award) for use in almost any architectural context
- Fully integral LED technology with high quality of light
- Complete modular kit for all photometric requirements
- Uniform LED platform with two different light colours (warm white or neutral white) and good colour rendering (CRI ≥ 80)
- Long service life with housing of robust diecast aluminium and weather-resistant powder coating
- Long operating life of up to 50,000 hours

LED recessed luminaires
From luminous markers to showcasing

Light for seeing, looking at and illuminating: lighting near to buildings, on paths and routes as well as on walls and objects defines transitions between roads and buildings as architectural spaces. Lighting makes such applications safer because it ensures orientation and guidance, and also makes them more visible because it lends them structure and atmosphere.

A low-cost and complete family solution is available for the functional lighting and creative design of exterior spaces around buildings in the form of the long-life, reliable range of AQUALED® 2 ground recessed luminaires.

The family consists of four construction sizes: S, M, L and XL. Both smaller construction sizes are ideal for eliminating paths and passages, giving orientation and guidance and safely marking pedestrians the way from roads or streets into buildings.

The L and XL construction sizes as uplights illuminate architectural details and objects, and can be used to highlight vertical surfaces for achieving unique atmospheres and a stylish ambience.

CL LED bollard
- Lighting of paths and driveways
- Four matched construction sizes for greater design flexibility (50/60/90/120cm)
- Single or double-sided light emission characteristic for wide planar illumination
- Harmonious proportions for attractive daytime appearance
- Simple installation due to modularity of base plate and luminaire housing

CL LED wall
- Illumination of facades and entrance areas
- Three matched construction sizes for greater design flexibility (MINI/MID/MAXI)
- Various light distributions or light colours with optical accessory discs increase design flexibility
- Simple installation with Easy Mounting System

CL LED spotlight
- For individual wall and object showcasing
- Mounting directly to walls, ceilings, to base plinth or diecast aluminium ground stake
- Precise pan-and-tilt adjustment with patented system (luminaire rotatable through 180°, light unit tiltable through 90°)
- High efficiency optics with clean cut-off for the precise illumination of horizontal and vertical surfaces

AQUALED® 2 L
- Showcasing of architectural details and objects
- Precise light control via very narrow or wide light distribution
- Flexibility due to family concept with two construction sizes and two lumen outputs
- Individual adjustment by tilting reflector (+/- 30°)
- Optimised LED thermal management for a high service life and low thermal build-up at the light emission aperture

AQUALED® 2 XL
- Functional and creative lighting for outdoor areas near to buildings and pedestrian zones
- Flexibility due to family concept with two construction sizes and two lumen outputs
- High quality of light and low glare due to uniform, diffuse light distribution
- Different atmospheres can be created via three optional light colours: warm white, neutral white and blue
- Optimised LED thermal management for a high service life and low thermal build-up at the light emission aperture

AQUALED® 2 S, AQUALED® 2 M
- Showcasing of architectural details and objects
- Precise light control via very narrow or wide light distribution
- Flexibility due to family concept with two construction sizes and two lumen outputs
- Individual adjustment by tilting reflector (+/- 30°)
- Optimised LED thermal management for a high service life and low thermal build-up at the light emission aperture
On the way to a smarter city
Light becomes even more intelligent

The central issues of our time – energy efficiency and sustainability – also mean modifications to the requirements made on road lighting and outdoor lighting. There is no alternative to a reduction of energy consumption and operating costs whilst simultaneously optimising the illumination of safety-relevant areas.

Innovative lighting solutions are needed that comply with the technical and economical requirements of the 21st century – as precisely offered by us with our many years of experience in the light management system sector: intelligent light control for outdoor applications precisely matched to your requirements and budget.

From simple on/off switching to the integration of extensive light management systems – many of our outdoor luminaires can be equipped with various control features, and always coordinated to your requirements. Your sales contact would be pleased to advise about individual Plus and Premium solutions.

### Three performance packages are available:

**Premium**
- Intelligent, self-regulating light management system for need-oriented lighting based on individual programming (incl. constant luminous flux control CLO 2.0)
- Electronic typeplate and local data exchange for smart performance updates

**Plus**
- Night-time reduction to 50% luminous flux with only approx. 45% consumption via control wire

**Basic**
- Thermal overload protection

### From simple on/off switching to the integration of extensive light management systems – many of our outdoor luminaires can be equipped with various control features, and always coordinated to your requirements. Your sales contact would be pleased to advise about individual Plus and Premium solutions.
Light is controllable
Premium light control systems for outdoor applications

Street Light Control enables holistic, networked light management in outdoor lighting with the individual control and monitoring of either single luminaires or thousands of light points. Street Light Control thus achieves reductions in energy consumption, CO₂ emissions and light pollution without neglecting the flexibility of needs-oriented lighting. The central system element is an innovative platform enabling the complete lighting system to be not only regulated via Powerline or radio but also to be continuously controlled in real time.

Light according to needs
Our intelligent light network dims the lighting with sensors during times of low traffic if nobody is nearby. As soon as human activity is detected (pedestrians, cyclists or vehicles), all defined luminaires in the vicinity light up to a specific level preset by the user. Disruption factors such as animals, leaves or wind are filtered out to avoid erroneous triggering stimuli and therefore unnecessary energy consumption. The principle of ‘intelligent light according to needs’ therefore reduces the energy costs of the lighting infrastructure in a safe and convenient way.

Light points the way
TVILIGHT and OSRAM

With its involvement with the Dutch software specialist TVILIGHT, OSRAM Lighting Solutions opens up new perspectives in the smart city sector. The joint solution consisting of adaptive lighting solutions with sensors and wireless network technology enables towns, cities and communities to operate their systems according to needs, energy-efficiently and with optimised maintenance – and even more intelligently. Intelligent, networked lighting is a key topic for OSRAM Lighting Solutions.

The essential benefits of Street Light Control
- Complete, open and upgradeable smart city system
- Needs-oriented control and monitoring of outdoor lighting via radio or PowerLine
- Diverse integration options for sensors and other components
- A reliable system solution from a single source – luminaires, controllers, sensors, software and accessories all from OSRAM Lighting Solutions
- Standardised open, clearly defined interfaces
- Simple integration of third-party luminaires or other system components, e.g. special sensor technology
- Up to 80% energy savings
- Up to 50% maintenance cost reduction
- Reduce light pollution and CO₂ emissions
- Light on demand

Safe roads and towns
The presence-based, adaptive lighting concept can also be used for security applications. A sudden increase in lighting intensity in remote areas can contribute to identifying e.g. (unauthorised) activity. This not only supports night-time security personnel but increases the feeling of safety and security with pedestrians and road users, as these are promptly informed about third-party presence. Furthermore, installed security cameras can record better due to higher lighting intensity, thus further improving safety.

Secure data connections
Our vision is to transform security into a truly broad concept. This applies not only to digital internet security but also to the handling of sensitive user information – because we take data protection very seriously. Our data connections are therefore secured according to state-of-the-art standards. A three-level backup system also prevents unintended deactivation of the luminaires in the improbable situation of system failure.