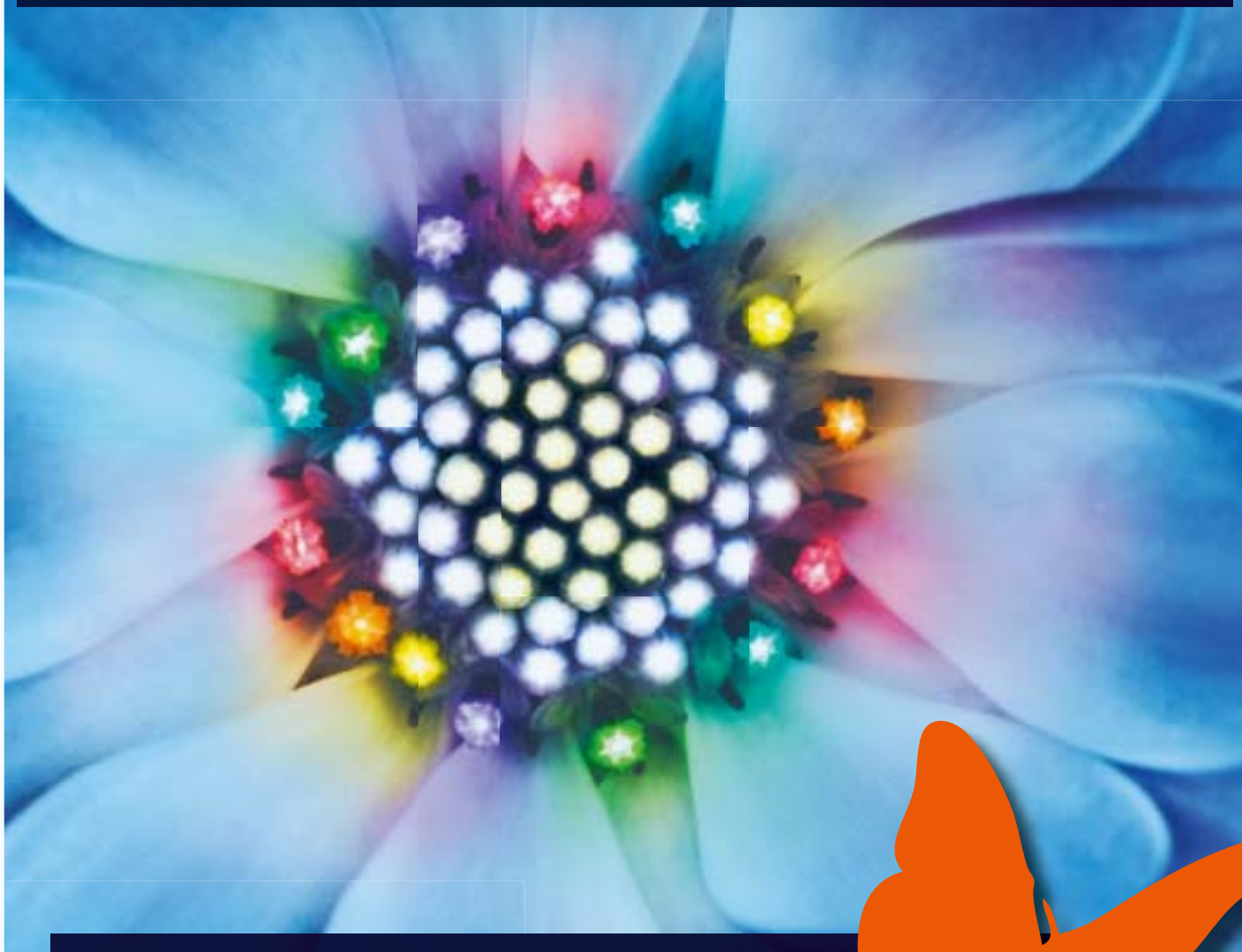


# spot

SEE THE WORLD IN A NEW LIGHT



**The future comes from  
innovation and sustainability.**

Innovative products, LEDs, the latest trends and pioneering visions.

**NEW LED HIGHLIGHTS**

*LED lighting solutions for all areas*

**MANY APPLICATIONS**

*Lighting solutions for Home, Office, Shop and City*

**HUGE RESPONSIBILITY**

*Sustainable products pave the way*

# LEDs create the future now!

With its innovative and ever more powerful LEDs and LED modules OSRAM has made a significant contribution to making LEDs the number one choice in many archtainment and effect lighting applications – and helping it conquer functional applications in the general illumination sector.

We have now added yet another milestone: PrevaLED™ Core Light Engines. These new LED modules are available with a fixed form factor in different lumen packages and light colors and offer very high system efficiency with excellent color rendering.

Our pioneering system design platform is giving manufacturers and designers incredible freedom to develop particularly efficient, compact and powerful luminaires. The enormous power and potential of these wonderful tiny LED packages are impressively conveyed by the “Textile Pillar” and other spectacular PrevaLED™ installations on our stand.

**New platform for sustainable light by OSRAM.**



LED



## **New freedom of design thanks to maximum optical performance and flexibility.**

PrevaLED™ Core Light Engines from OSRAM are new and innovative LED modules that are characterized by their high quality of light with a color rendering index  $R_a$  of  $>90$  with impressive system efficiency of up to 75 lm/W. The tiny power packs are available in eight versions from 800 to 3,000 lumen in light colors of 3,000K and 4,000K, all with the same dimensions irrespective of the lumen value, namely a diameter of 50 mm and a height of about 9 mm.

## **Future-proof system design platform for bright and efficient LED lighting.**

With identical form factors and fixed interfaces this clever system design platform from OSRAM provides the basis for future-proof designs with reduced luminaire development costs, particularly as the modules can be easily replaced at a later date. In terms of the mechanics, electrics, optics, control and thermal behavior.

## **System solution with dedicated ECGs for reliable and efficient operation.**

OSRAM offers suitable electronic control gear for optimum operation of PrevaLED™ Core Light Engines with 800, 2,100 and 3,000 lumen. The OPTOTRONIC® OTp family is offered in different performance classes appropriate to the Light Engines. Devices with integrated DALI® interfaces are already in preparation and enable even more efficient lighting to be created in combination with LMS components.



*Extreme range: high-rise towers, stadiums, shopping centers – IMAGIC WEAVE is the perfect medium for successful sustainable outdoor advertising.*

### Intelligent modular principle for sustainable luminaire design.

PrevaLED™ Core Light Engines offer new opportunities and greater freedom in the design and specification of LED luminaires. The modular principle means that different modules and ECGs can be easily selected depending on the necessary or desired light output, system performance, light color, color rendering and type of control. The manufacturer has every opportunity to design the luminaire, reflector and cooling – and thanks to the compact dimensions and fixed module parameters this succeeds perfectly – simple, economical and future-proof.

### Unique quality of light for so many applications.

In addition to high system efficiency and very good color rendering index, PrevaLED™ Core Light Engines are impressive for their minimal color temperature deviations (<3 SDCM), very long average life of 50,000 hours and a very wide beam angle of 140°. Light Engines are ideal for use with reflectors. Depending on the design, they can be installed either inside or outside the module. The integrated reflector fastening makes this a quick and simple operation. The reflector is simply inserted in the guide ring and rotated to lock it in position.

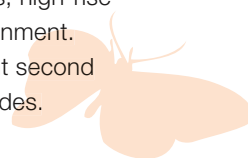
**The unique benefits of PrevaLED™ Core Light Engines from OSRAM make them the first choice for a large number of applications. Their particular strengths are perfect for downlights and spotlights for efficient lighting in shops, halls and corridors – for example as replacements for 2 x 26 W compact fluorescent lamps, 50 W halogen lamps and 20 W/35 W HCl® lamps.**



### Long-life LED facade solution for effective messages.

Spectacular fusion of the finest stainless steel mesh and state-of-the-art LED technology. Weatherproof UV-resistant RGB LED lines in type of protection IP67 make IMAGIC WEAVE ideal for architectural integrated media facade systems in stadiums, shopping centers, car parks, high-rise buildings and other major structures in any environment. The mesh protects buildings with a unique brilliant second skin and is perfect for shading buildings and facades.

At the back of the mesh are narrow ultra-modern LED profiles that can provide a smooth surface and high transparency at the front. Thanks to DMX and DVI compatibility, IMAGIC WEAVE provides the basis for individually programmable lighting scenarios for text, graphics and images, right up to medium and high-resolution videos with stunning lighting effects in up to 16 million colors. As an advertising surface IMAGIC WEAVE communicates sales messages in a unique eye-catching and unforgettable manner and is perfect for implementing effective media concepts that are kind to the budget.



*The bright compact PrevaLED™ Core Light Engines open up so many design options for installation in downlights and spotlights.*



*A vision of the future: state-of-the-art LED technology and high-quality materials make IMAGIC WEAVE the ideal advertising medium and spectacular communication tool on any building facade.*

## 1 LED



High LED art: the slim linear NANO LINER XB indoor lamp is ideal for intensive, uniform yet extremely discreet illumination for example in museums, art galleries and restaurants.



Modern presence: colored or white accent and spotlighting from SPOT XB steals the show from conventional downlights and spotlights.

## LED



**TRAXON NANO LINER XB –  
linear high-power LED lamp**

## LED



**TRAXON SPOT XB –  
round high-power LED spotlight**

### 1 a/c/d Extremely compact, very bright, highly varied.

NANO LINER XB is an extremely powerful indoor spotlight with a slim profile equipped with 9, 18, 27 or 36 high-power LEDs (350 mA). It is ideal for installations in small spaces and provides intense and uniform illumination for different surfaces, for example coving, shop windows and display cabinets for restaurants, shops and museums. The high-quality casing made of anodized aluminum allows it to be used discreetly in a large number of applications. The spotlight is equipped with high-precision UV-resistant plastic lenses and is particularly easy to install thanks to the TX CONNECT® system.

NANO LINER XB are available in Cold White, Warm White, DYNAMICWHITE®, Red, Green, Blue, Amber, RGB and various beam angles of 6°, 15°, 25°, 40°, 25° x 6° and Open Beam.

### 1 a/d Extremely powerful, very compact, high-quality aluminum casing.

SPOT XB with standard MR16 dimensions is a first-class alternative to conventional downlights and spotlights, for example for point-source illumination of display cabinets and sculptures and for accentuating niches and walls. This high-performance indoor spotlight is equipped with three Premium LEDs (350 mA) and consists of an extruded aluminum profile with an anodized surface which acts as an efficient heat sink. SPOT XB is controlled via user-friendly LED Engine XB-SD and is available in Cold White, Warm White, DYNAMICWHITE®, Red, Green, Blue, Amber and RGB with various beam angles of 6°, 15° and 25°.



**TRAXON WALL WASHER XB – high-power LED lamp**



**TRAXON 1PXL COVE LIGHT XR – narrow-profile cove lighting**

**1c/f Focused accent lighting and wide-angle floodlighting.**

Powerful WALL WASHER XB outdoor spotlights are available with 18 or 36 high-power LEDs (700mA) in Cold White, Warm White, DYNAMICWHITE®, Red, Green, Blue, Amber and RGB with beam angles of 6°, 15°, 25°, 25° x 6° and Open Beam. It has an extruded anodized aluminum casing that also acts as a heat sink. The luminaire head (110°) and foot (170°), are adjustable. WALL WASHER XB are ideal for accent lighting or floodlighting facades and can be easily combined with linear outdoor LINER XB spotlights, which are available in the same light colors and beam angles.

**1b/e Strong uniform shadow-free light in a variety of colors.**

With its colored or white atmospheric light and functional compact design, 1PXL COVE LIGHT XR is perfect for drawing attention to architectural highlights, for example for decorative lighting of coving or ornamentation in hotels, reception rooms, shops and boutiques. 12 LEDs (24 for DYNAMICWHITE®) with a wide beam angle of 120° provide uniform shadow-free light. The head can swivel through 180° and be locked in any position for flexible installation and precise alignment of the light beam. 1PXL COVE LIGHT XR is available in Cold White, Warm White and DYNAMICWHITE® and has a simple on/off function without the need for additional controllers. The RGB and DYNAMICWHITE® versions enable the lighting mood to be changed to suit specific requirements.



*WALL WASHER XB provides dynamic accent lighting for walls or objects in Warm White to Cold White light colors.*



*1PXL COVE LIGHT XR provides atmospheric colored and white light to display modern interiors and architectural details to their best advantage.*

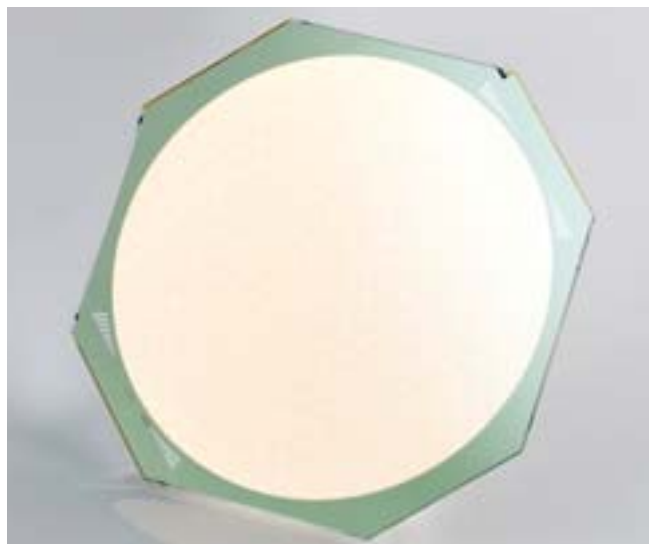
## Discover pure light!

OSRAM was recently the first company in the world to launch an OLED product on the market – the ORBEOS™.

With their unique properties, organic light emitting diodes are a completely new and exciting addition to existing lighting options. Although these wafer-thin light sources are still in their infancy, one thing is certain – there will be luminous walls, windows and furniture in the future.

Come to our stand and be inspired by spectacular installations and concrete sample applications, including a display cabinet with integrated colored and transparent ORBEOS™ panels, an ORBEOS™ room divider and a designer luminaire that makes use of two-dimensional and point light sources by the intelligent combination of LEDs and OLEDs.

**First certified OLED product by OSRAM.**



**ORBEOS™ for OLED lighting – less is more.**

### **Innovative two-dimensional light source made from organic semiconducting materials.**

Compared with LEDs, which are point light sources, organic light emitting diodes have a lower current density and lower luminance. OLEDs now consist mainly of a (glass) substrate, a transparent electrode, one or more layers in the form of thin films, and a counter-electrode which can also be transparent. To protect the OLEDs against oxidation and moisture the component is encapsulated.

One of the outstanding properties of OLEDs is their potential for flexibility. Since the active organic layers are extremely thin, less than 500 nm, the entire OLED can be made extremely flat and lightweight. At present, they cannot be made flexible because of the rigid glass substrate and the encapsulation. But soon even thinner and flexible substrates, transparent electrode material, more advanced electrode materials and encapsulation based on thin-film technology will give OLEDs flexibility.

OLEDs open up completely new design options for rooms and buildings. In principle, these flat light sources will allow any object, piece of furniture, wall, ceiling or window to become a light source. In the general illumination sector, transparent OLED windows are a possible application. By day the windows would allow natural light through into the room, and by night they would provide light themselves.

**The first commercially available light source based on organic light emitting diodes.**

Up to now OLEDs have been manufactured in limited numbers, such as the “Early Future” table light by the light artist Ingo Maurer. This design piece, equipped with wafer-thin OLED tiles, was conceived purely as a work of art. Widespread applications will now follow with ORBEOS™. ORBEOS™ is the first OLED light source on the market for use in the high-end general illumination sector, for example in hotels, restaurants, offices, museums and shops.

The warm color temperature of 2,800 K corresponds to that of an incandescent lamp and is therefore suitable for atmospheric yet functional illumination of rooms. With an average of 25 lm/W the innovative light tile is already more efficient than conventional incandescent or halogen lamps.

ORBEOS™ enables architects and designers to create new individual, extremely thin and flat lighting solutions. The panel is available with a diffuse surface like frosted glass, comes on and goes off instantly, can be smoothly dimmed and is absolutely glare-free. The panels can be easily mounted with the aid of spring contacts. Unlike LEDs, OLEDs do not need a heat sink so thermal management is simpler.

**OLEDs at the OSRAM booth.**

At the heart of the booth is a three-dimensional installation conceived by the renowned lighting designer Prof. Schulz. Reflector panels with ORBEOS™ float almost freely in space, form walls, sometimes ceilings, sometimes floors.

In a sample application around 90 ORBEOS™ OLEDs are used to decorate objects in light. The soft glare-free light ensures uniform illumination and is therefore ideal for use in shop lighting.

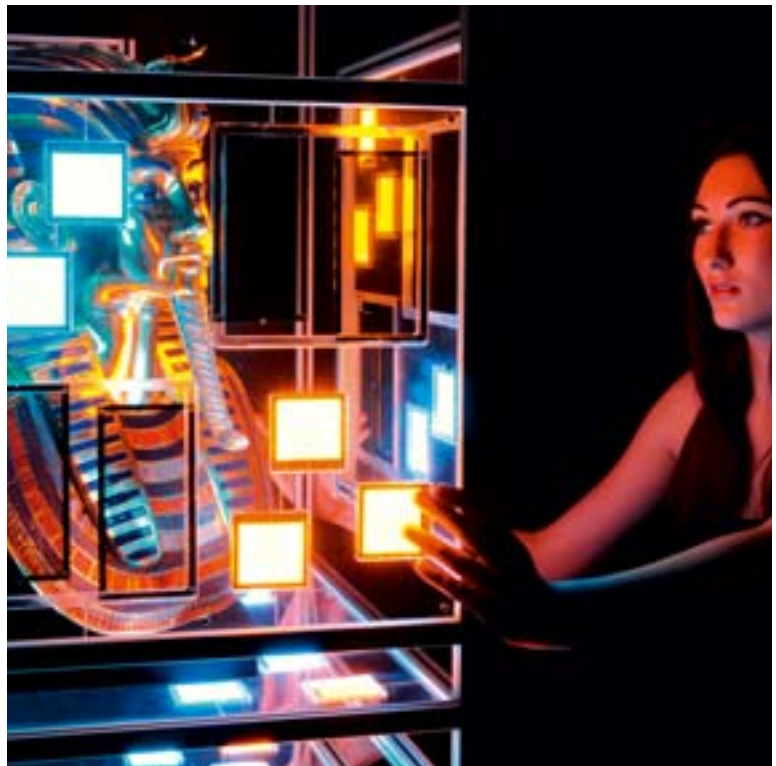
A different exhibition is designed to meet the requirements of museum or art gallery lighting. A cabinet with integrated ORBEOS™ panels demonstrates the possibilities of colored and transparent light sources.

An ORBEOS™ room divider adds to the many possible applications of this wafer-thin light source in offices and also in the home. The light installation displays graphic effect on an area of 1 × 1 m<sup>2</sup> and a wide range of colors and shapes.

A designer luminaire shows the link between LEDs and OLEDs. The intelligent combination of point and flat light sources allows the benefits of both technologies to be fully exploited.



*Substantial luminaires and installations: ORBEOS™ – a new architectural design element.*



*Tutankhamun: Object lighting with OLEDs for use in museums and high-class retail outlets.*

**OSRAM GmbH**

**Head Office**

Hellabrunner Strasse 1

81543 Munich

Germany

Phone +49 (0) 89-6213-0

Fax +49 (0) 89-6213-20 20

[www.osram.com](http://www.osram.com)



Produced from well managed forests  
www.fsc.org Cert no. SA-COC-101439  
© 1996 Forest Stewardship Council

A09W001GB 04/10 Co OSRAM CRM&S MK AB Subject to change without notice. OSRAM does not accept liability for errors, changes and omissions..