

Press release

Dornbirn, November 2011

### **The relevance of light in terms of room atmosphere and aesthetics**

The special requirements placed on lighting solutions in the context of art and culture

Cultural objects and buildings as well as objects of art derive from creative design processes of individuals. In some instances, it is the light which emphasises the effects and identity of art and culture, or which becomes a work of art in its own right. The range of requirements placed on light depends on the areas of application and basic conditions. When it comes to designing lighting solutions, it is important to ensure that they can be integrated into the building in the most energy-saving manner. However, when it comes to setting the stage for art and culture, light has to fulfil other tasks as well. Luminaires must unobtrusively blend into the building's architecture, allowing for combination with the daylight available. Although it saves energy, natural light also involves risks for sensitive exhibits. Intelligent lighting management systems, such as Luxmate by Zumtobel, monitor and control the amount and intensity of daylight and artificial lighting.

Light guides the visitors and directs their views, providing orientation in an exhibition. The right light can focus people's attention and create specific atmospheres. Moreover, exhibits can be presented to visitors in a particularly impressive way. By using accent lighting, details can be enhanced and moved to the foreground of perception. With light used perfectly, targeted outlines and contrasts can be produced – with respect to the room and the exhibits. Light allows not only optimal display of exhibits, but also artistic presentation of the environment, e.g. historic structures of the building.

## Impressive lighting scenarios



Light is supposed to perfectly illuminate rooms and create ideal ambiances. This is the only way of making sure that concerts, stage plays and other cultural events take full effect. The right lighting concept enhances perception and emphasises the significance of colours, supporting the effective staging of a dramatic concept. For the precise illumination of exhibition areas and objects or cultural facilities, it is not only the visitors' aesthetic perception that has to be taken into account. The light must be adjusted to a variety of requirements and provide optimum colour rendering while preserving sensitive exhibits. For this purpose, Zumtobel offers a special product portfolio tailor-made for the area of art and culture, which meets the most varied demands – from uniform general lighting to detailed showcase lighting or wide-area illumination of vertical surfaces.

## Arcos luminaire range for high artistic demands



The spotlight system combines functionality with maximum sensitivity for museums and exhibitions. The spotlight's cylindrical design speaks a minimalist and purist language and does not interfere with the museum's architectural structure or the exhibits. The versatile ceiling spotlight is available in four different sizes and combines sophisticated lighting technology with unobtrusive design in a black or white finish. Thanks to the numerous accessories available, the various models of the spotlight can be used in a variety of application areas.

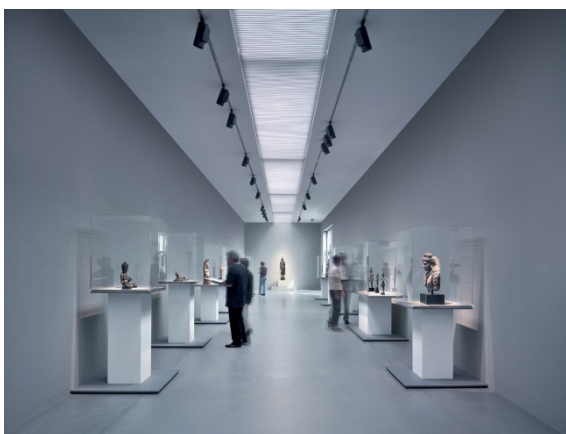
### **Spotlights emphasise details**

The standard versions of Arcos are designed for rooms with low or high ceilings, to provide accent lighting with sharp outlines or for large exhibition areas. For Arcos spotlights, Zumtobel uses not only conventional lamp technology, but also state-of-the-art LED technology: thanks to the new Tunable White function, it is now possible to modify colour temperatures from 2700 K to 6500 K, in order to be able to flexibly adjust the lighting to changing exhibits without having to change the lamp. Arcos provides conservational lighting for sensitive exhibits with a high colour rendering quality.

### **Wide-area illumination**

Besides the spotlights, wallwasher models are the perfect solution for uniform and at the same time efficient illumination of small- and large-scale areas and objects. Depending on the wall surface and requirements, a variety of design sizes and attachments are available, thanks to which lighting design with and implementation of Arcos wallwashers becomes extremely flexible. Whether used as a spot for defined areas, for illuminating medium-sized objects or as light projection for large wall surfaces and images, Arcos meets the most varied requirements. Thanks to the spotlight design, the built-in anti-glare panel and additional attachments, optimum glare control is achieved, preventing a direct view of the lamp.

To be able to illuminate objects to optimum extent, Arcos can be adjusted with high precision and dimmed depending on the application area, while the black lamp unit minimises the stray light component. A variety of lenses and filters can be accommodated in various attachment rings, which



makes Arcos the perfect choice for any lighting task. Arco's connector and fixture are unobtrusive in design, ensuring surprisingly intuitive operation of the luminaire for quick and safe luminaire adjustment.

### **Supersystem – multifunctional luminaire system in a minimalist design**



The Supersystem lighting system is the efficient all-rounder for sophisticated lighting tasks requiring innovative LED technology. The lighting system made of naturally anodised aluminium is characterised by the resource-saving use of materials and its discreet design language and can be used in a variety of applications. Thanks to its minimalist design and elegant appearance, it is

possible to integrate Supersystem into interiors where the architecture must not be interfered with and the focus is on illuminating the exhibits. The multi-faceted system is the ideal solution for subtle yet efficient room or display lighting. Due to its versatility and flexible fitting options involving a variety of luminaire modules, Supersystem ensures a uniform appearance for complex lighting solutions.

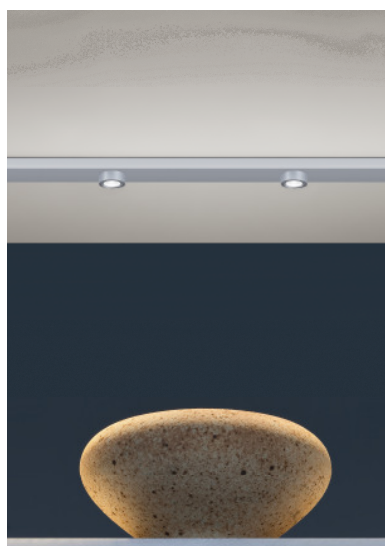
### **Flexible configuration**

As standard, the system is provided as single spot and triple spot with built-in ballast, featuring three radiation angles between 10° and 41°. The LEDs' colour temperature can be either 3100 K (warm white) or 4600 K (intermediate white). The track-based luminaire system allows a variety of combinations and applications. The fixtures can be mounted as recessed or surface-mounted tracks. Moreover, a pendant version providing additional indirect ambient lighting is available which allows to create a special room atmosphere. The track system can also accommodate a variety of luminaire types, e.g. the Arcos spotlight or the Resclite emergency luminaire, allowing the multi-faceted system to present a uniform appearance. Furthermore, compact wallwasher inserts can be added to the module, enabling uniform illumination of vertical surfaces thanks to wide-area lighting. SUPERSYSTEM is also very effective as a single spot or as 4-spot version without track system – it can be pivoted and rotated, with a luminous flux of up to 260 lm per spot. It has virtually no impact on the ceiling look.

### **Attention to detail**

The small, highly efficient LED spots are suitable for high-precision accent lighting of even the smallest details. Even over longer distances of up to six metres, their light can be focussed on the exhibits or the objects to be illuminated thanks to the luminaire heads that can be rotated through 360° and pivoted through 90°. With just 2.6 W per spot and a service life of 50,000 hours, the energy-saving spots can also be used for display and showcase lighting. Thanks to reduced thermal radiation, the surfaces of sensitive exhibits are protected from thermal damage even if directly illuminated at close range. The LED spots provide gentle, yet efficient lighting outside the ranges of UV and IR radiation.

### **Microtools – miniaturised showcase lighting**



The modular Microtools LED system, which has recently won the 2012 iF product design award, demonstrates its strengths within minimum space: the miniaturised lighting heads have been integrated into the modules to the greatest possible extent. A variety of easily combinable modules is available to ensure versatile, highly flexible illumination - for general lighting, lighting accents or a combination of both. The front ring used for aligning the spotlights and for replacing the optics protrudes only 4 mm from the module,

ensuring that the light sources remain virtually invisible. The light provided presents the goods displayed in the showcase to optimum effect. Selective lighting accents emphasise even the smallest details, presenting them as elegant highlights. As the 1.2 W LED chips produce only very little heat, they may be placed close to the exhibit on display: this means that they can replace conventional low-voltage halogen spotlights without any compromise in terms of quality, yet at a significantly reduced installed load. LED light is focussed intelligently to perfectly meet all requirements in the context of museum and shop design. Beam angles ranging from spot (16°) to very wideflood (68°) ensure that selective lighting accents direct the customer's focus onto individual items while other areas are uniformly lit.

### **Cielos – modular lighting system for design without boundaries**



The modular lighting system is a work of art in its own right. Whether used separately or as a combination of several modules – its light provides a number of aesthetic options. The modular and media luminaire can be used for a variety of applications. Cielos is a flexible design element for ceilings and walls. Individual components can be combined as required. As the light shines right to the

edges of the luminaire, so that joints between the modules are hardly visible, smooth transitions are created. Maintenance and installation are easy. The glass cover's magnetic catches allow opening of individual modules separately, even if they are surrounded by other Cielos modules. In general, two fixing options are available for installation on the ceiling. The luminous field can be mounted directly on the ceiling or suspended using a pendant. Mounted on the wall, it turns into a vertical luminous panel providing a wealth of application options.

#### **Four modules providing many options**

Cielos Monocolor cannot fail to impress with its static look and a focus on a rich light colour. Coloured light is especially intensified by coloured filters, catching the visitors' attention. The fluorescent lamps fitted here are also used for the Cielos Bicolor version, where a linear colour mix is achieved using two colours. In case of luminous fields involving several modules, the main colours are determined by the outer modules. For the modules in-between, any intermediate colour hues can be produced by targeted dimming of the two colours.

By contrast, unlimited abundance of colours is provided by Cielos Multicolor. In line with the principle of RGB colour mixing, countless colour hues can be produced and, through the single-layer safety glass, are presented to the visitors with maximum intensity. Even more options are provided by Cielos Move: Thanks to innovative LED and control technologies, the lighting system is turned into a luminous field displaying dynamic videos and animations. Via video control, each lighting point of the LED field can be addressed separately. Thus, images, shapes

and messages can be displayed. The more Move modules are combined, the larger the surface for creative design and the more varied the design options.

### **Linaria – a slim-line batten luminaire with great effect**

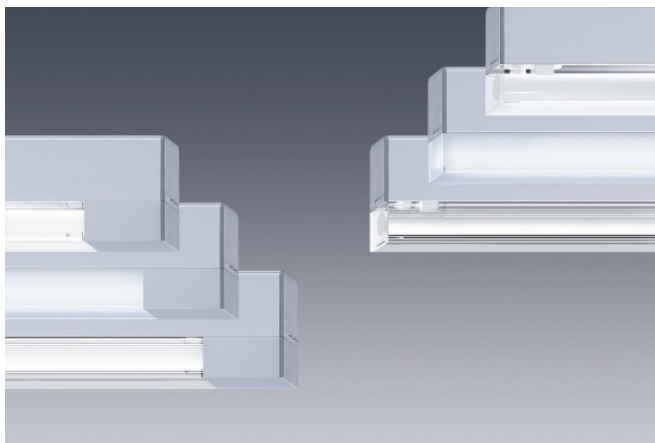


It is hardly possible to beat the Linaria batten luminaire when it comes to linearity, nor will you find a luminaire that is less wide. Its extra-slim body that is only 3 cm wide and its housing made of high-quality aluminium provide for a minimalist look, giving way to

architecture. The luminaire housing has not only been manufactured in a resource-saving manner, but is also extremely resistant, thanks to its powder-coated finish - a luminaire for art venues where elegance is required.

### **Lampholders made obsolete**

The batten luminaire is available in two versions. Thanks to an innovative light source generation, Linaria Seamless is able to produce continuous light lines with uniform brightness. The lampholder is easily concealed inside



the housing with the help of the “lampholder lift” developed by Zumtobel. This mechanism allows the light to reach both ends of the luminaire, even radiating from the front ends. Thus, the light length corresponds to the length of the luminaire. If several Linaria are mounted in a row, a continuous light line with hardly visible joints is produced. The four-millimetre gap between the front ends is so small, as compared to conventional light sources, that no shadows are created that could be perceived as annoying.

The second version, Linaria T16, is available in all T16 wattages in single-length units, making it the most slender DALI-dimmable batten luminaire available. In addition, for Linaria T16, a cubic lampholder is available that fits snugly to the luminaire's optic. Both versions can be used as wall and ceiling-mounted luminaires or in a suspended version.

### **The right attachment**

For the plain luminaire housing, a number of enclosures are available that can be fastened via a simple snap-in mechanism, without any tools, making the the luminaire fit for a variety of application areas. In addition to a transparent and a diffuse enclosure, which provide uniform illumination without any visible light source, there is also a longitudinally prismatic enclosure available, which is suitable also for task areas, thanks to longitudinal glare control. All enclosures form a line with the body, so that the linearity of Linaria is preserved.

### **Zumtobel. The Light**



## **Brief profile**

The Zumtobel brand is a leading international supplier of integral lighting solutions that enable people to experience the interplay of light and architecture. As a leader in innovation, the luminaire manufacturer provides a comprehensive range of high-quality luminaires and lighting management systems for the most varied application areas of professional interior lighting – including offices and educational facilities, retail and presentation, hotels and wellness, health and care, art and culture as well as industry and engineering. Zumtobel is a brand of the Zumtobel AG group with its head office in Dornbirn, Vorarlberg (Austria).

## **Captions:**

- Photo 1: Zumtobel LED starry sky with 1,600 LEDs at the Danish Radio House in Copenhagen
- Photo 2: Arcos luminaire range: white spotlight
- Photo 3: Arcos installation, taking the Langen Foundation in Duesseldorf as an example
- Photo 4: Supersystem product photo
- Photo 5: Microtools LED system
- Photo 6: Cielos modular lighting system
- Photo 7: Linaria batten luminaire
- Photo 8: Linaria without lampholder: Linaria Seamless

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