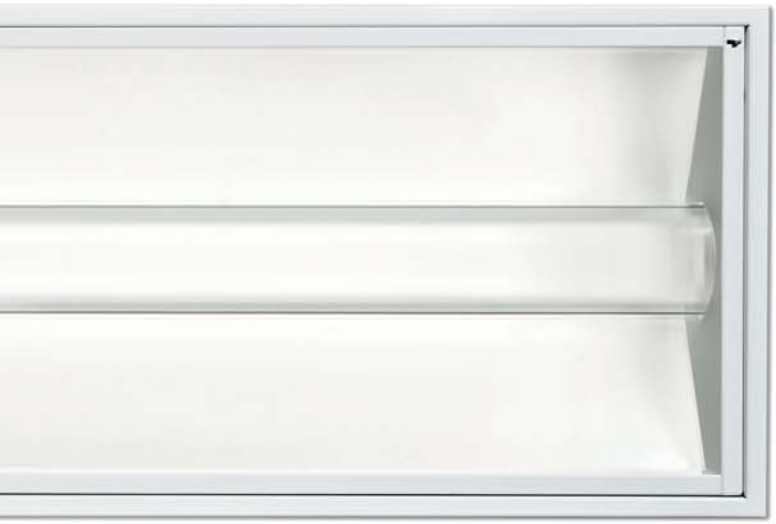
UM



LED

ETAP

EXCELLENT LIGHTING, SAVING ENERGY

UM

efficiency, comfort and ease

The UM range offers diffusers with MesoOptics™ technology. The advantages of this technology – ultra high efficiency and wide-angle light distribution – combined with a contemporary design, make it a perfect solution for efficient and appealing lighting.

The MesoOptics™ diffuser creates high vertical illuminances on walls, which results in a room with an appearance of being naturally lit. The diffuser is evenly lit without flashing, disturbing luminances or colour interference. The light source of UM is not directly visible, which avoids direct glare.

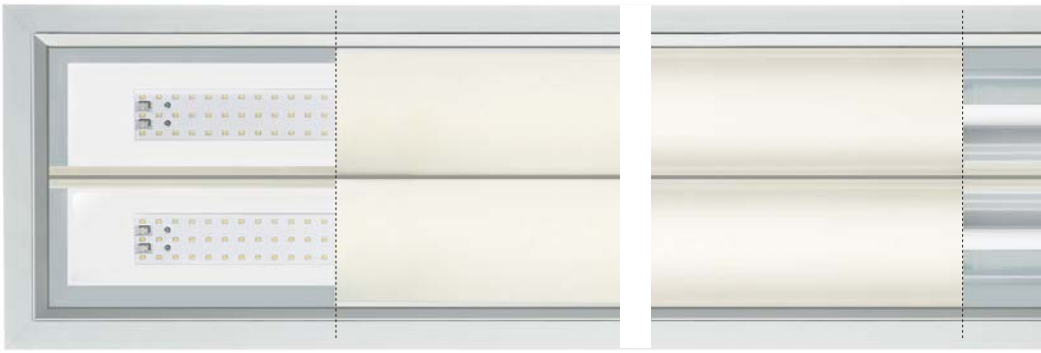
MesoOptics™ microtechnology

MesoOptics™ is the innovative technology that accurately creates specially designed micro structures onto a transparent foil. Those three dimensional structures of 5 micron are invisible to the naked eye, shield the light source and distribute the light in a controlled way.

LED

VERSION WITH LEDS

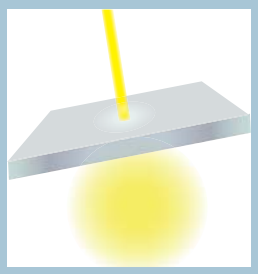
VERSION WITH FLUORESCENT LAMPS



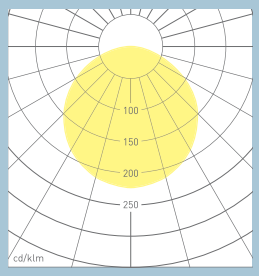
The UM series is available both with fluorescent lamps (UM1 and UM2) and with LEDs (UM2). LEDs ensure an even more homogeneous illumination of the diffuser.

Class leading efficiency

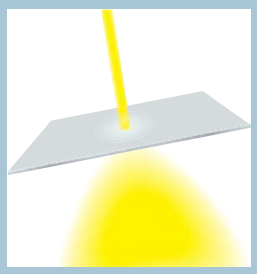
The use of MesoOptics™ leads to efficiencies that are about 30 % above the level that can be reached with traditional diffusers. Reflections within the material itself – which result in serious light loss in traditional diffusers – are practically non-existent in MesoOptics™. Fewer luminaires and less energy are needed for the same illumination level. MesoOptics ™ micro-structures result in a more controlled light distribution, spacings between UM luminaires can be bigger than spacings between luminaries with traditional diffusers. Moreover, UM2 is fitted with high-reflection HRSilver reflectors that further enhance efficiency.



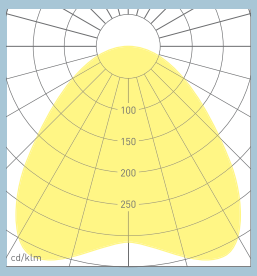
Traditional diffusion with 30% loss of light.



Traditional diffusers distribute the light uniformly in all directions.



MesoOptics™ allows 92% light transmission.



MesoOptics™ micro structures provide a controlled light distribution.

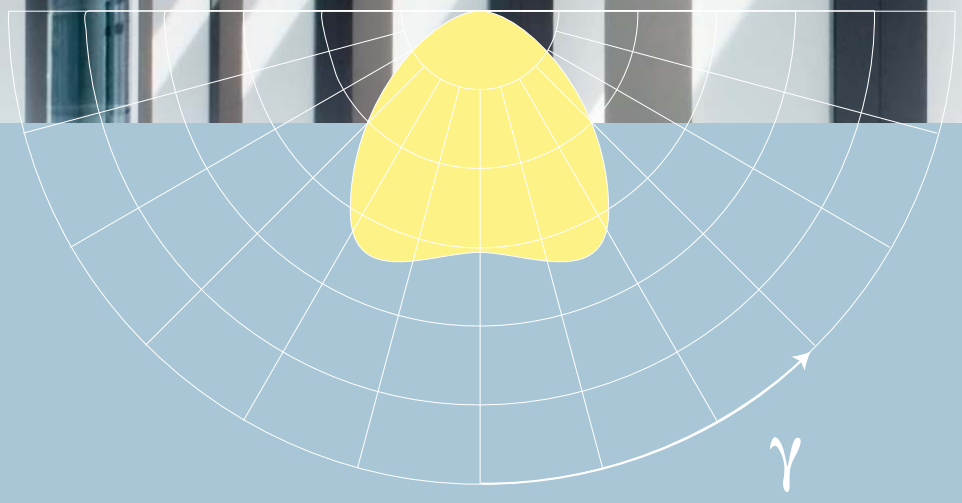
Easy installation and maintenance

UM luminaires are quickly and easily mounted in various ceiling types. With their limited height (max. 110 mm for UM1 and 100 mm for UM2) the luminaires are particularly suited for ceilings with limited mounting heights. The pivoting optics in the version with fluorescent lamps facilitate easy maintenance.
The pivoting optics in the version with LEDs include the entire LED assembly. Light source and associated cooling are contained in an enclosed system to ensure safe installation and avoid any risk of damage to the LEDs.

Integrated daylight control ELS

Controls and emergency

Light control systems allow you to make considerable savings on your energy bill. They can be perfectly integrated into UM luminaires. ELS dims the artificial light depending on the amount of daylight, MDS switches depending on whether people are in the room. The ETAP Multisensor for DALI (EMD) combines daylight and movement dependent control with IR control. UM luminaires are available with emergency units and integration of the K9 emergency lighting LED module is possible.



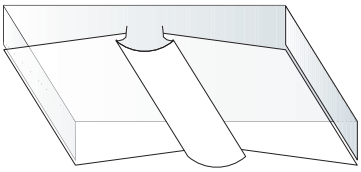
UM1 luminaires (with T5 lamps, Ø 16 mm) have a high LOR with efficiencies up to 82%

UM1

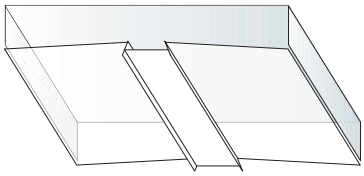
UM1 has a seamless steel plate frame, painted in white. The Meso-Optics ™ foil is hold by an acrylic (PMMA) or polycarbonate/PET plate. The acrylic version fulfils the 650°C glow wire test. The polycarbonate/PET plate meets the 850°C glow wire test, for increased safety requirements.

UM10

With the UM1 series you can choose from two different optics.



UM10 optic



UM11 optic

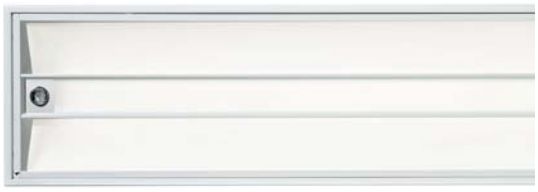
For each optic there is a square or rectangular version available. You can equip UM1 with integrated light control systems, emergency lighting or air extraction.

UM11 with multisensor for DALI (EMD)

UM10 with air extraction

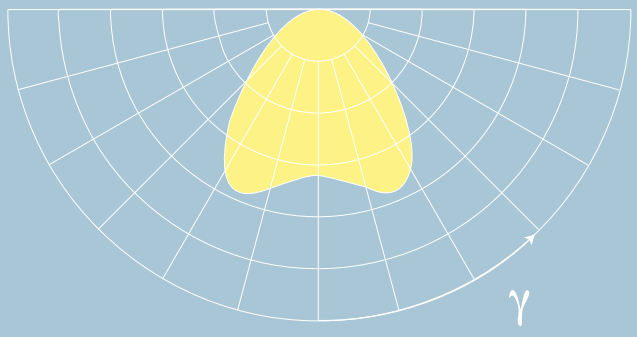
UM10 with daylight control (ELS)

UM10 with emergency unit

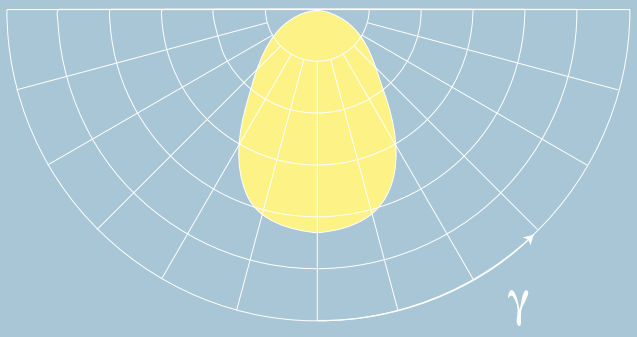


UM11 with LED module for emergency lighting (K9)

Fluorescent lamps



LED



UM2 diffusers with LEDs have a luminous efficacy of up to 87 lm/W. With fluorescent lamps they achieve an efficiency of up to 93%, which corresponds to 81 lm/W.

UM2

UM2 incorporates svelte architectural details in its chamfered extruded aluminium frame that retains the high purity safety glass lens and MesoOptics™ light controlling elements. The UM2 design has unique a concealed roller hinge and retention system for ease of assembly and maintenance.

UM2 with air extraction

The UM2 range, with LED or fluorescent lamps, is available in square and linear versions which can be equipped with integrated light control systems and emergency conversions.

The UM2 luminaires with LED have a luminous flux of up to 3300 lm (38 W) and are available in two colour temperatures: 3000 and 4000 K. The LEDs provide a perfect illumination of the diffuser. The optimal cooling of the LEDs ensures high efficiency and a long lifetime (50,000 burning hours at 86% of the luminous flux), virtually eliminating the need for maintenance. Finally, the luminaires feature LED-specific advantages such as very low dimming levels and fast start-up times.

LED

UM2 with daylight control (ELS)

UM2 with air extraction

UM2 with emergency unit (fluorescent lamps)

UM

Wide range of stylish diffuser luminaires

Versions with fluorescent lamps and leds

Pure design and perfect finish

Energy saving
- Higher LOR than traditional diffusers
- Wider spacings, less luminaires

Comfortable lighting
- Hidden light source, no direct glare
- Evenly lit diffusers, no disturbing luminances
- Pleasantly and uniformly lit spaces

Ease of installation and maintenance

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