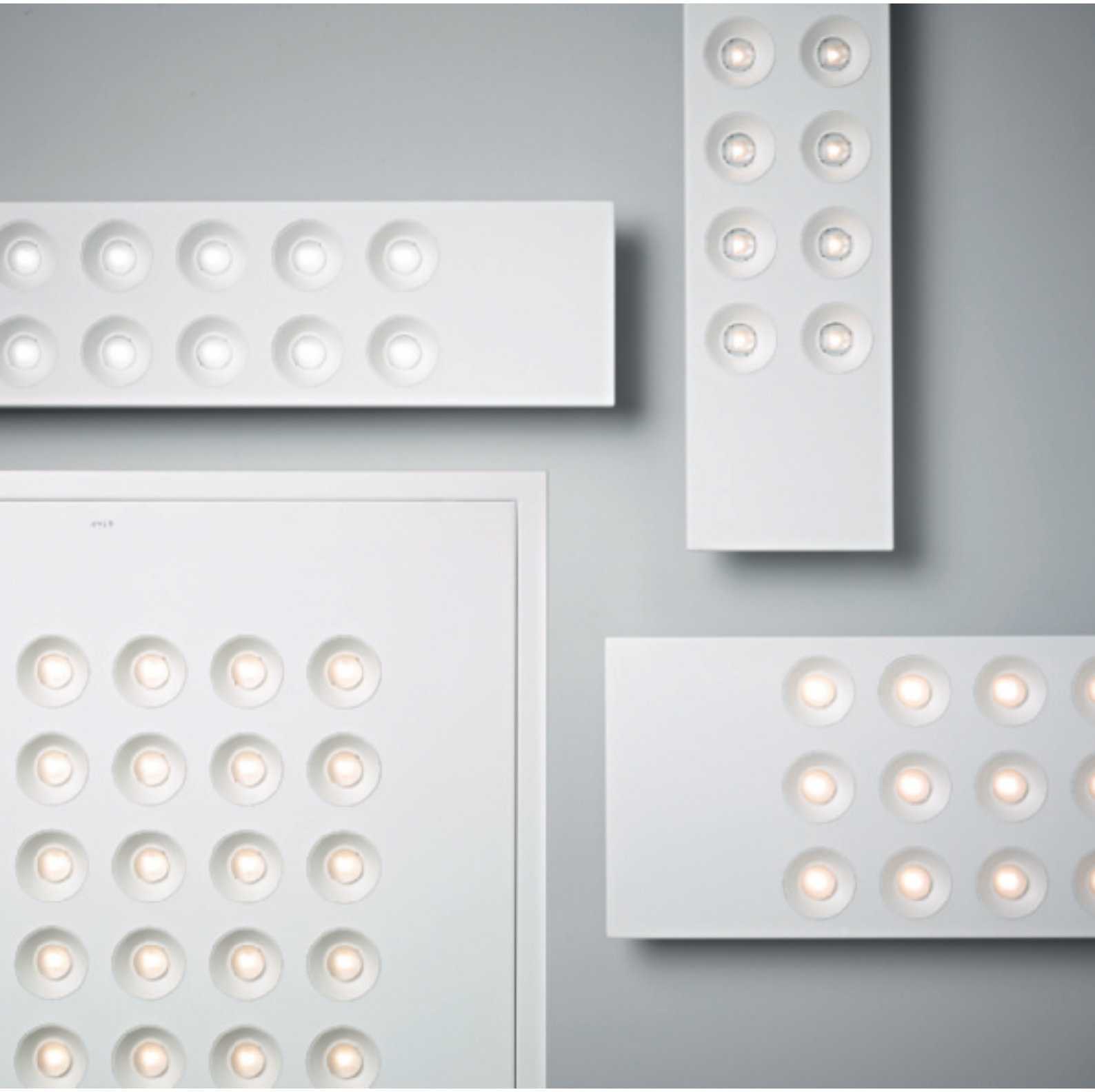
U7/R7



LED

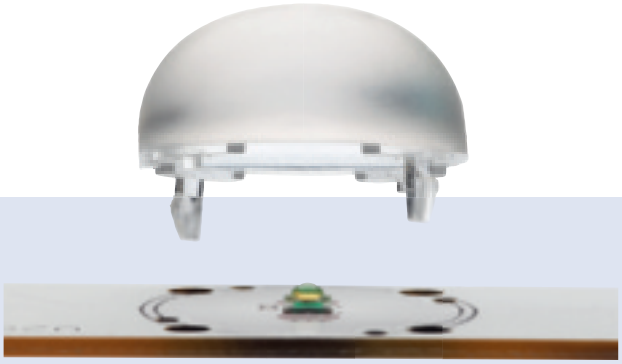
ETAP

EXCELLENT LIGHTING, SAVING ENERGY

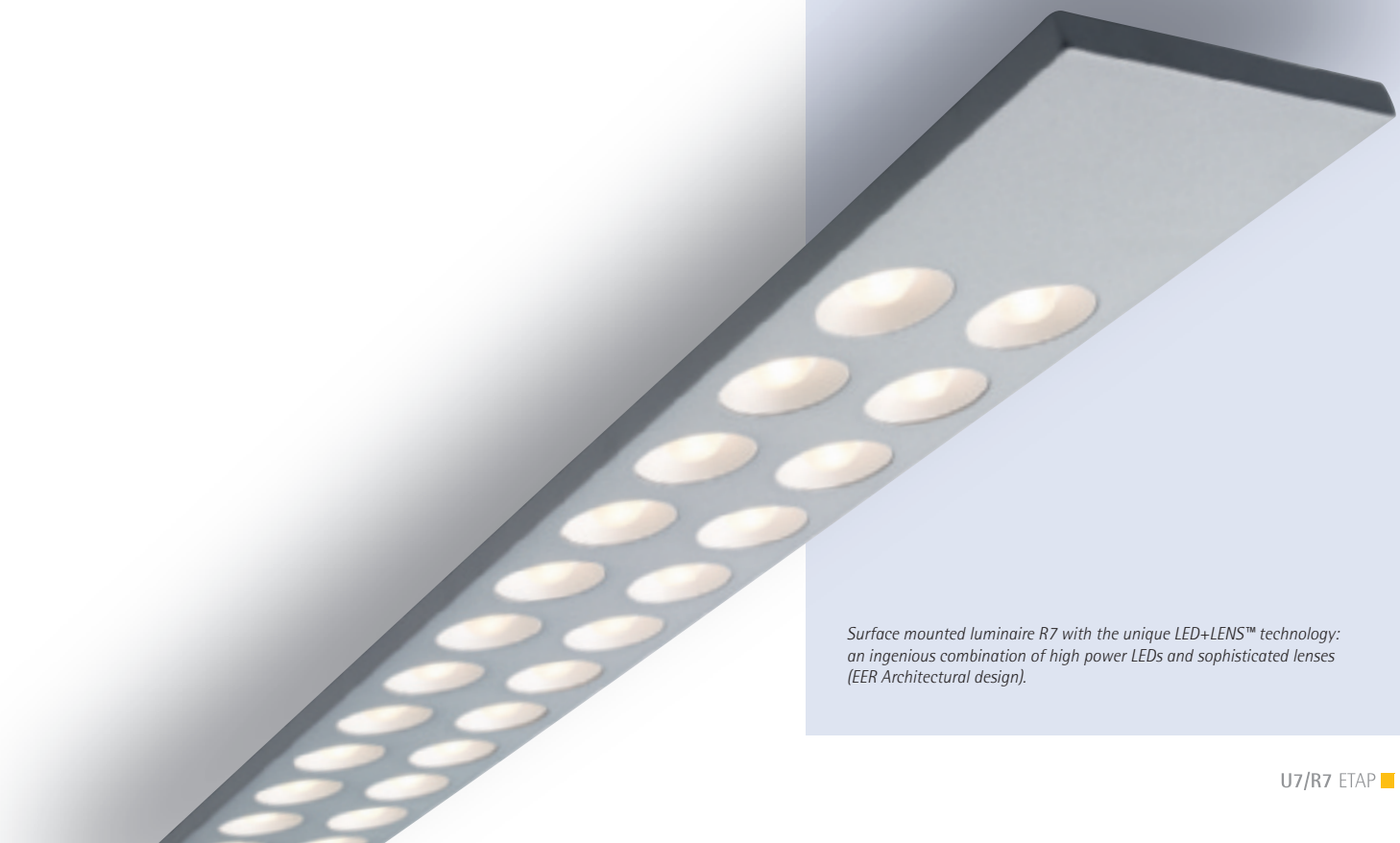
U7/R7

Advanced lighting in unique design

U7 and R7 bring tomorrow's lighting into your home. Using the LED+LENS™ technology, both luminaires have been developed for general lighting in offices, public buildings and shopping malls. With their ingenious combination of high power LEDs and sophisticated lenses, this series of recessed and surface mounted luminaires offers the best of both worlds. The advantages of LEDs – low power consumption, long service life – go hand in hand with maximum visual comfort. In short, nothing but advanced lighting technology, wrapped in a unique contemporary design.



LED+LENS™ TECHNOLOGY



Surface mounted luminaire R7 with the unique LED+LENS™ technology: an ingenious combination of high power LEDs and sophisticated lenses (EER Architectural design).

U7/R7 A lens for every LED

The R7 surface-mounted luminaires and U7 recessed luminaires use LED+LENS™ technology, which combines high-power LEDs with individual lenses, resulting in energy-efficient and particularly comfortable lighting.

Energy-efficient

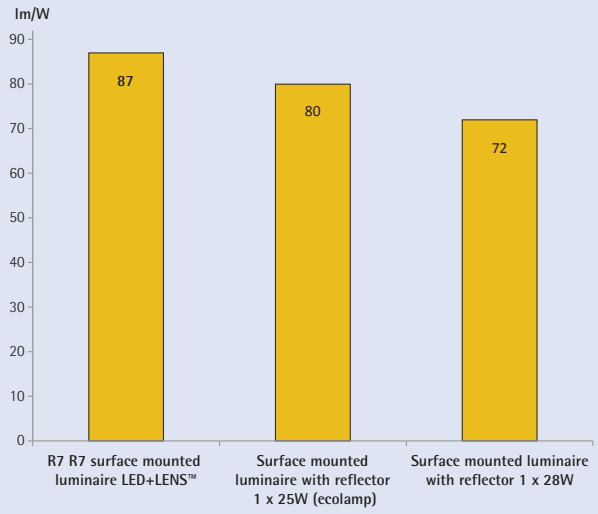
- **High efficiency.**
  The high-efficiency high-power LEDs provide sufficient luminous flux to effectively light any space. The LED+LENS™ technology minimises light loss both between LED and lens and within the actual lens. This results in a high specific luminous flux of the luminaires (up to 87 lm/W – status end 2012).

- **Perfectly aimed.**
  LED+LENS™ directs the light exactly where you need it. ETAP engineers designed lenses with various light distributions, depending on the application: wide-angle, medium wide-angle, asymmetric, etc. Thus not wasting energy with the undesirable scattering of light.

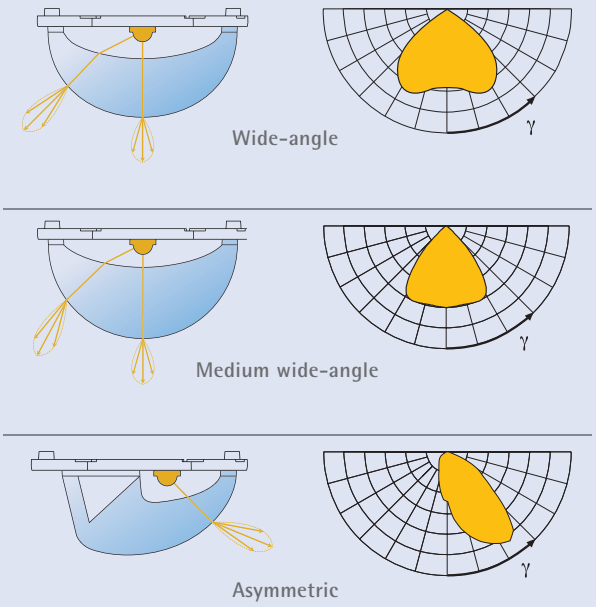
- **Exactly what you need.**
  Depending on the application you can choose from lumen packages between 2500 and 5000 lumen. In this way, in combination with the correct lens, you will reduce installed power and/or number of luminaires.

- **Cost-saving.**
  Thanks to this wide choice of lumen packages and light distributions, with the U7 and R7 you can develop an optimal lighting solution for every application. In this way minimising investment cost as well as energy consumption.

Luminaires' specific luminous flux (status 2012)



Light distributions U7/R7



Comfortable

- **Light source shielded.**
  Bright LED light represents a challenge for designers. Optimal luminance control was therefore of the utmost importance in the development of LED+LENS™ technology. The lenses' patented surface structure softens the LED light with minimum light loss. The result? Low UGR values (lower than 16 for medium wide-angle lenses and lower than 19 for wide-angle lenses) and low average luminance, without compromising on efficiency.

- **Smooth transition.**
  Lenses are discreetly recessed in tubs, which creates a soft and pleasant light transition between light source and luminaire housing.

Long service life

- **High maintenance factor.**
  LED+LENS™ technology maximises the long service life of high-power LEDs. R7 and U7 luminaires retain 88% of their illuminance after 25,000 burning hours. After 75,000 burning hours it is still 86%.

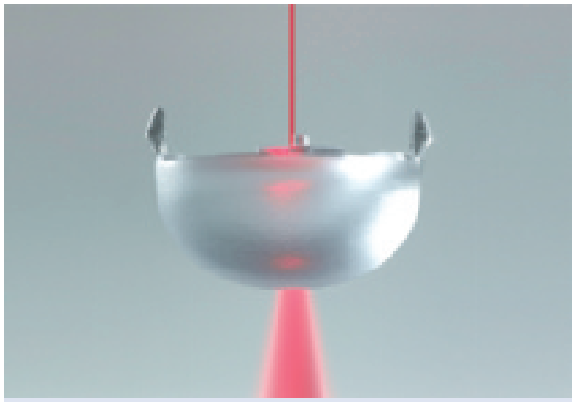
- **Thermal design.**
  The luminaires' thermal design plays a crucial role in the high maintenance factor. LEDs are particularly temperature-sensitive, which is why the U7 and R7 housing acts like a heat sink. A thermal foil between the housing and the PCB provides extra cooling.

Stylish

- **Slim and compact.**
  The LEDs' and lenses' compact design results in slimline luminaires – the housing is a mere 15 mm high.

- **Recessed lenses.**
  The LEDs' matrix structure and the recessed lenses give the luminaires a stylish, contemporary look.

- **Perfect finish.**
  U7and R7 are available in white and grey textured paints and feature a flawless, high-quality finish into the most minute details.



The patented surface structure retains the light distribution with minimum light loss, while ensuring low average luminance.

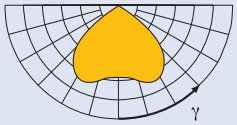
LED+LENS™ TECHNOLOGY

The lenses are recessed in small cups for enhanced lighting comfort.

The housing of the luminaires is only 15 mm in height.

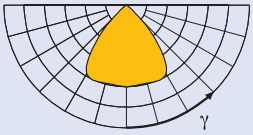
U7/R7 In any space, for any application

U7 and R7 provide you with a full range of LED luminaires for all your spaces. Offices, conference rooms, reception rooms, schools, shops, showrooms, hospitals and corridors – the application possibilities are endless. With recessed, surface-mounted and suspended versions you will furthermore create a consistent style throughout the building.



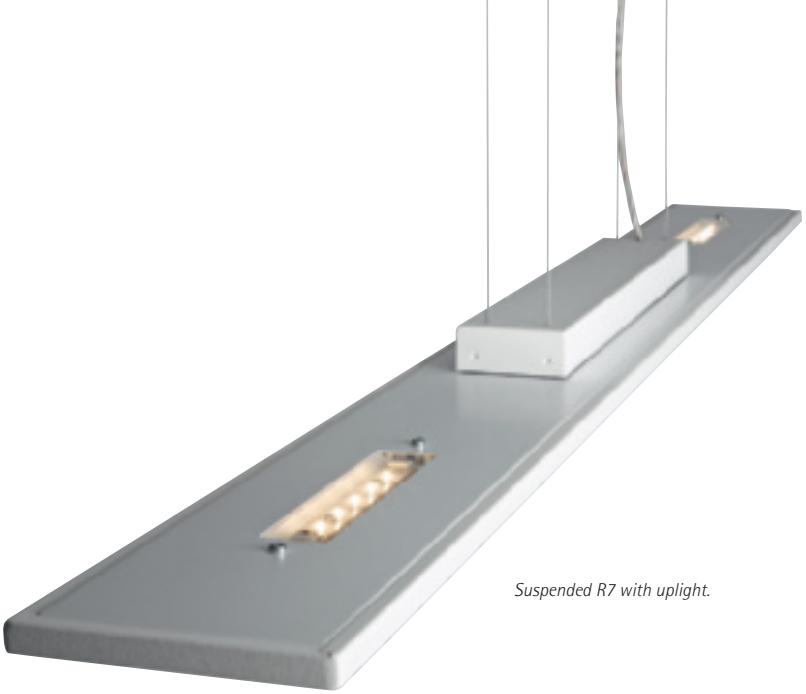
Wide-angle

In large spaces you can limit the number of luminaires with a wide-angle lens and adjusted lumen package.

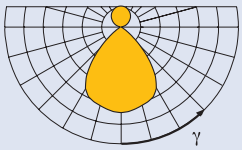


Medium-angle

In smaller offices the light is aimed where you want it with the medium-angle lens. In this way you can considerably reduce the installed capacity.

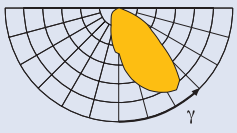


Suspended R7 with uplight.



Uplight

The suspended version of the R7 provides 30% uplight as standard: a uniform distribution of direct and indirect lighting.



Asymmetric

Blackboards and walls are illuminated with asymmetric lenses, which achieves even illumination.

U7/R7 Discreet integration, amazing savings

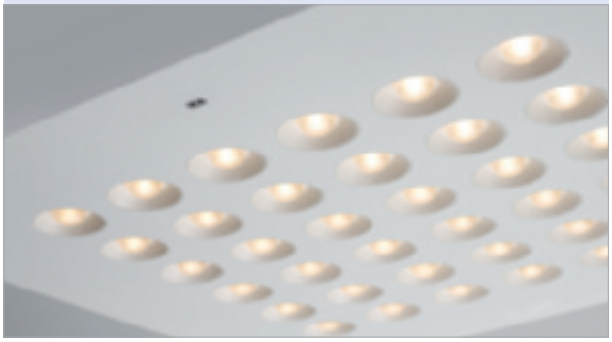
Both R7 and U7 can be perfectly combined with ETAP's integrated light control systems: daylight-dependent control (ELS), motion-dependent control and multisensors. These combinations make for further savings.

LEDs have a number of specific properties that make them particularly suitable for use with light control systems. For example, frequent switching has no impact on the service life of LEDs. Furthermore LEDs immediately respond with full luminous flux when switched on, which increases user comfort upon entering the space.

LEDs not only respond fast when switched on, but also after any change in supply, which implies that they dim more smoothly and precisely. Fluorescent lamps react more slowly, especially when they are cold.

R7 and U7 use the updated ELS sensor for daylight control, which is more compact than its predecessor and can be integrated very discreetly into the slim luminaires. At the same time we improved the sensor's performance, which follows the spectral sensitivity curve even more closely, is less temperature-dependent and reacts faster and more accurately. All these improvements result in up to 30% and more energy savings.

Movement-dependent light control



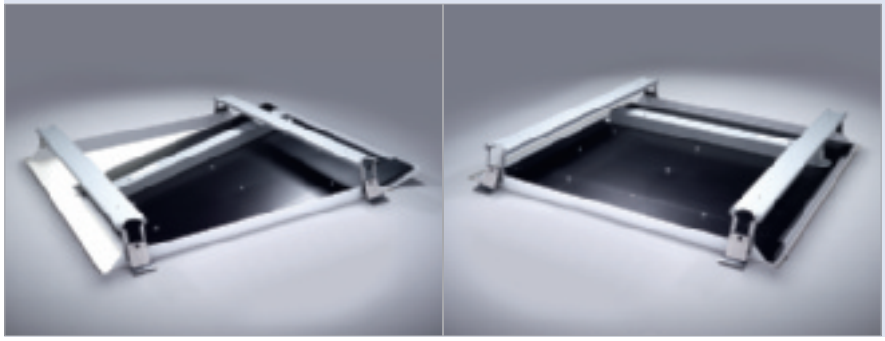
Daylight-dependent light control ELS

Emergency lighting

The K9 module for emergency lighting can also be discreetly integrated into these luminaires, preventing you from having to install further luminaires for anti-panic and escape route lighting.

Fast and easy installation

Installation of U7 and R7 is quick and easy – whether you opt for recessed, surface-mounted or suspended versions. A single technician can do the job, in no time and with minimum tools.



Surface-mounted

The LED can be simply mounted on the driver box.

For in-line mounting, there's a single cable entry only. The electrical connection runs through the juxtaposed driver boxes.

Suspended

The driver housing comes pre-assembled on the luminaire and can be hung in one piece on the mounting plate.

For in-line mounting there is only a single cable entry. The electrical connection takes place through the LED modules.

Recessed

The low mounting height (50 mm) makes installation easier in system ceilings.

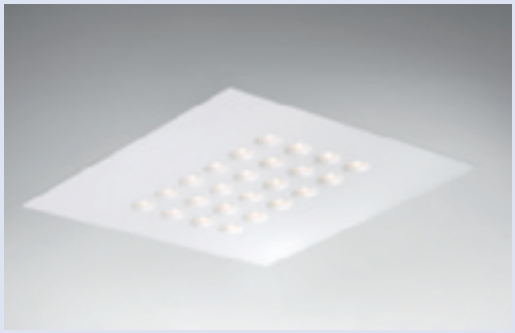
In plasterboard ceilings the luminaires are installed in a separate frame (see pictures). The required mounting height is 100 mm.

U7/R7 Full range

U7 - Recessed luminaires

Colours: white structure paint (RAL 9003); grey upon request
Colour temperature: 3000K or 4000K
Luminous flux: varies from 2,500 lm to 5,000 lm, depending on type of lens and number of LEDs
Light distribution: medium angle, wide angle and asymmetric
Optional extras: air extraction, light controls, module for emergency lighting

RECESSED	
24 LEDs 596 x 596 mm (M600) 621 x 621 mm (M625)	
36 LEDs 596 x 596 mm (M600) 621 x 621 mm (M625)	
48 LEDs 596 x 596 mm (M600) 621 x 621 mm (M625)	
24 LEDs 1196 x 296 mm (M300) 1246 x 308 mm (M625) 1720 x 296 mm (M1800)	
36 LEDs 1196 x 296 mm (M300) 1246 x 308 mm (M625) 1720 x 296 mm (M1800)	
48 LEDs 1196 x 296 mm (M300) 1246 x 308 mm (M625) 1720 x 296 mm (M1800)	



The square U7 is available with 24, 36 or 48 LEDs.

Air extraction is integrated into the housing.

U7 luminaires can be installed in plaster ceilings using an additional mounting frame.

R7 - Surface-mounted or suspended luminaires, individual and in line

Colours: white (RAL 9003) and grey structure paint; black (RAL 9005) upon request
Colour temperature: 3000K or 4000K
Luminous flux: varies from 2,500 lumen to 5,000 lumen, depending on type of lens and number of LEDs
Light distribution: medium angle, wide angle and asymmetric. Suspended luminaires with uplight
Optional extras: light controls, module for emergency lighting

SURFACE-MOUNTED

24 LEDs 1500 x 150 mm 1680 x 150 mm (in line)	
36 LEDs 1500 x 150 mm 1680 x 150 mm (in line)	
54 LEDs 1500 x 220 mm 1680 x 220 mm (in line)	
48 LEDs (*) 1920 x 150 mm	

SUSPENDED

34 LEDs (**) 1500 x 150 mm 1680 x 150 mm (in line)	
56 LEDs (***) 1500 x 150 mm 1680 x 150 mm (in line)	
48 LEDs (*) 1920 x 150 mm	

(*) wallwasher only
(**) 24 downlight and 10 uplight
(***) 36 downlight and 20 uplight

R7 surface mounted in line.

The surface mounted R7 has a built-in movement detector.

The suspended R7 produces standard 30% uplight.

DIM&S 116571



U7/R7

- LED luminaires for general lighting, based on LED+LENS™ technology
- Full range of recessed, surface-mounted and suspended luminaires
- Energy-saving and hard-wearing
- Pleasant and comfortable
- Stylish and contemporary look
- Easy and quick installation
- Discreet integration of light control systems and emergency lighting

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