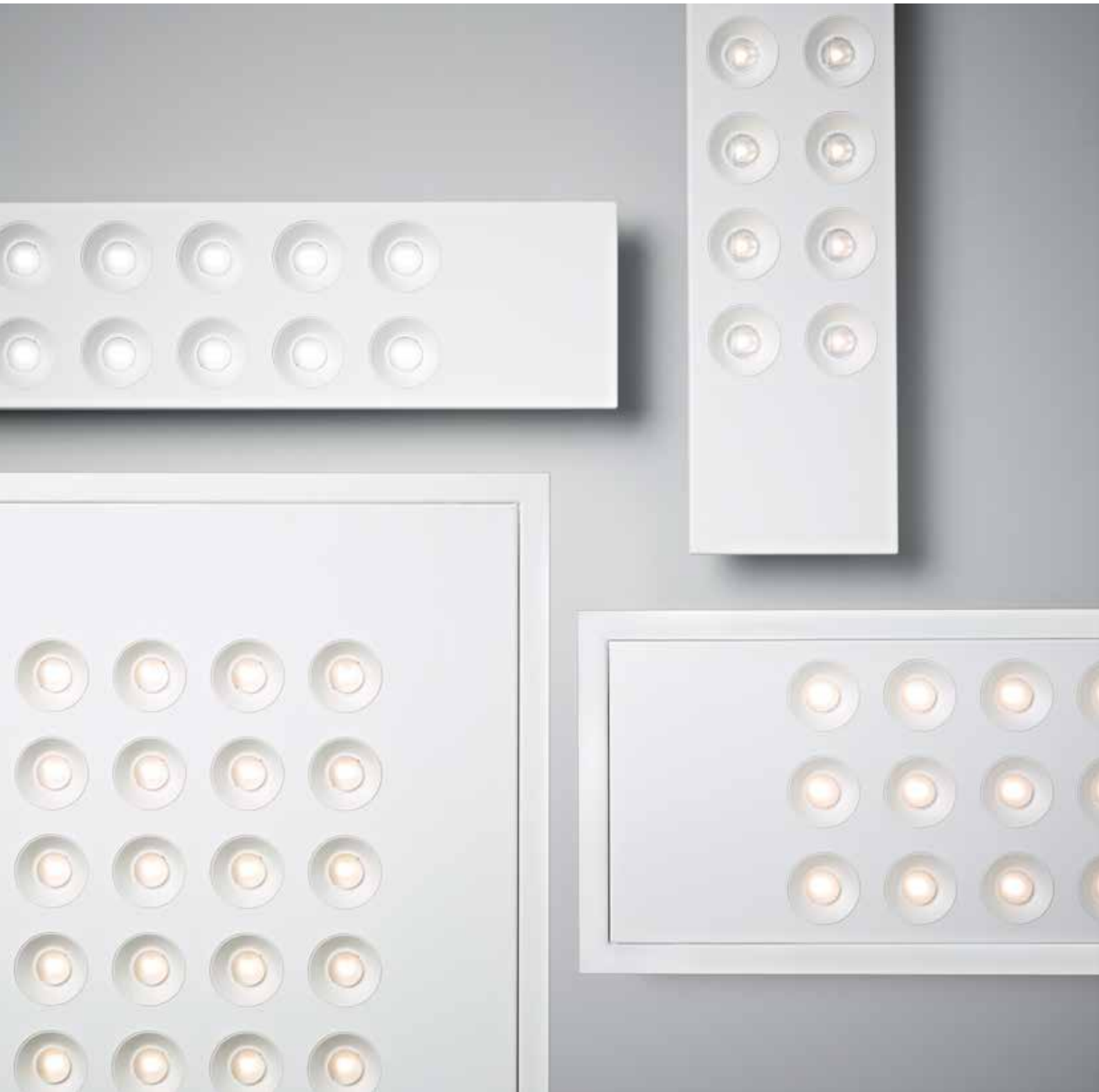


# U7/R7



# U7/R7

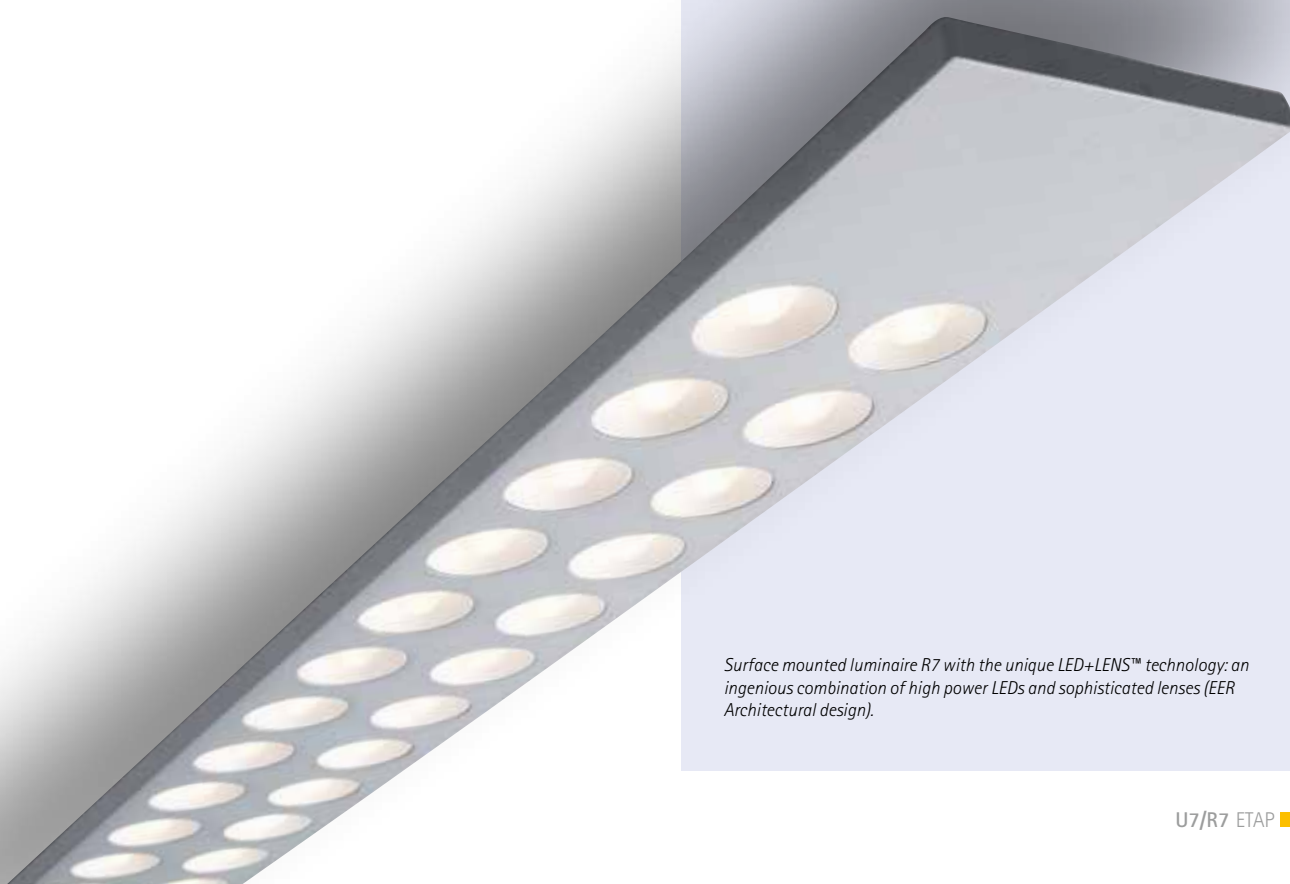
Advanced lighting in unique design



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 135 lm/W – status 2015).

#### ■ Perfectly aimed.

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

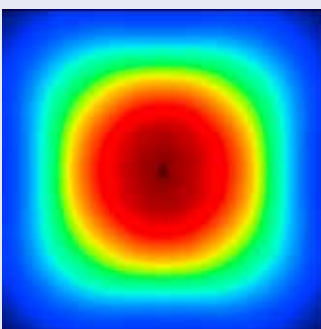
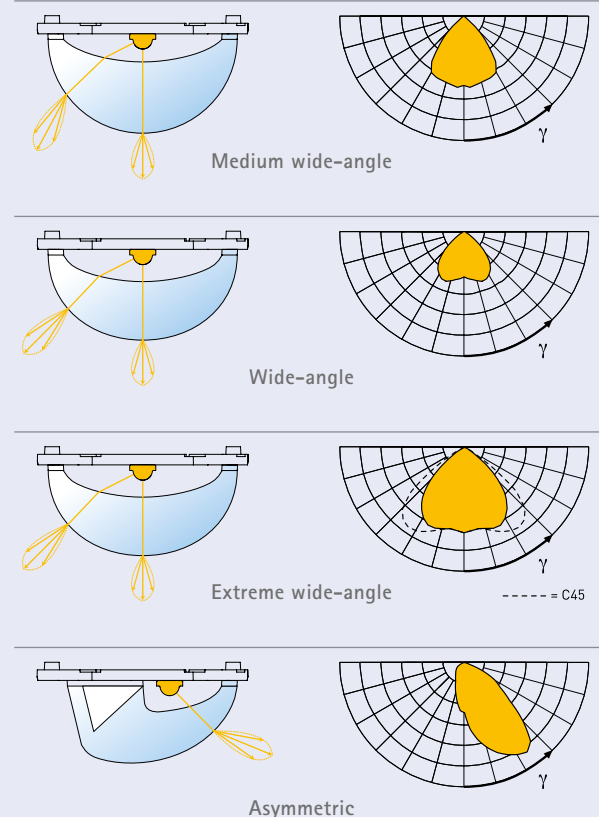
#### ■ Exactly what you need.

Depending on the application you can choose from lumen packages between 600 and 6,550 lumen. In this way, in combination with the correct lens, you will reduce installed power and/or number of luminaires.

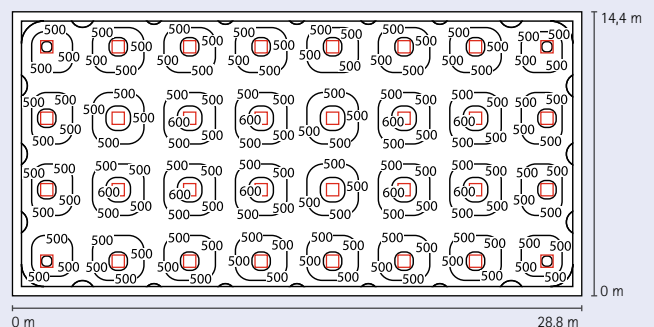
#### ■ Cost-saving.

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.

### Light distributions U7/R7



The unique extreme wide-angle lens provides nearly square luminance, which leads to even illumination of the space.



Thanks to the extreme wide-angle lenses you can illuminate your large office spaces with a minimum number of luminaires, using the least possible energy.  
Specific power: 0,75 W/m<sup>2</sup>/100 lx  
Maintenance factor: 0,88

## 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 extreme 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 up to 98% of their illuminance after 50,000 burning hours (LLMF - Lamp Lumen Maintenance Factor).

### ■ 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.

## 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.

U7 and 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

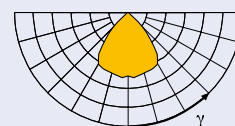
## In any space, for any application

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.



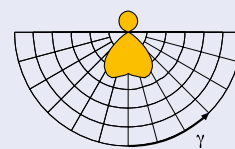
### Medium-angle

*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.*



### Wide-angle with uplight

*In large spaces you can limit the number of luminaires with a wide-angle lens and adjusted lumen package. Suspended luminaires provide 30% uplight as standard: balanced distribution between direct and indirect lighting.*

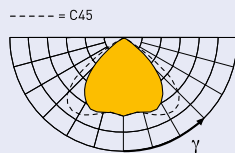




*Suspended R7 with uplight*

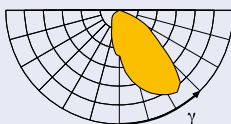
### *Extreme wide angle*

*In large offices you can maximise spacing between luminaires and limit their number with the extreme wide-angle lens.*



### *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) and multidetector EMD. These combinations make for further savings. The luminaires can also be effortlessly managed using Excellum2, ETAP's light control system.

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 30% and more energy savings.

U7 and R7 are compatible with Excellum2, which enable you to centrally manage and control the lighting in your building. The system allows to gear your lighting to the situation at any time and minimises consumption.



### Emergency lighting

The LED 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.



*U7 with multidetector EMD.*



*R7 with daylight-dependent light control ELS.*



*Combine U7 and R7 with Excellum2 and minimise your power consumption.*



# 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.



## 1. Surface-mounted, linear

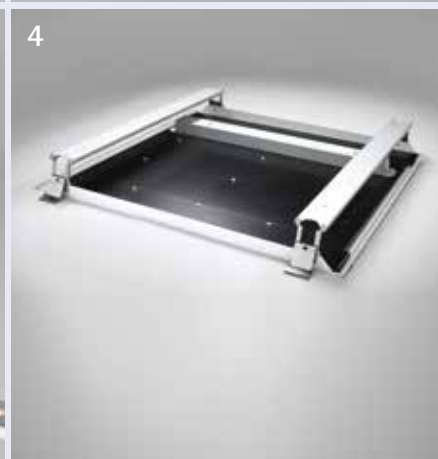
The LED can be simply mounted on the driver box. For in-line mounting, there's a single cable entry only. The electrical connection runs through the juxtaposed driver boxes.

## 2. Surface-mounted, square

The LED module is attached with a hinge to the mounting plate.

## 3. 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.



## 4. 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.



## 5. R7 (surface-mounted)

The LED module is fastened with springs to the mounting plate.

## 6. U7 (recessed)





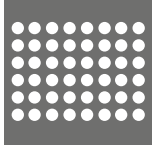

The luminaire is mounted in the ceiling with two springs. The minimum mounting height is 52 mm.

# U7/R7

## Full range

### U7 - Recessed luminaires

<b>Colours:</b>	white structure paint (RAL 9003); grey upon request
<b>Colour temperature:</b>	3,000 K or 4,000 K
<b>Luminous flux:</b>	varies from 600 lm to 6,650 lm, depending on type of lens and number of LEDs
<b>Light distribution:</b>	medium angle, wide angle, extreme wide-angle or asymmetric
<b>Optional extras:</b>	air extraction, light controls, module for emergency lighting, (depending on version)

RECESSED		
<b>24 LEDs</b> <ul style="list-style-type: none"> <li>■ 596 x 596 mm (M600)</li> <li>■ 621 x 621 mm (M625)</li> <li>■ 1196 x 296 mm (M300)</li> <li>■ 1246 x 308 mm (M625)</li> <li>■ 1720 x 296 mm (M1800)</li> </ul>		
<b>36 LEDs</b> <ul style="list-style-type: none"> <li>■ 596 x 596 mm (M600)</li> <li>■ 621 x 621 mm (M625)</li> <li>■ 1196 x 296 mm (M300)</li> <li>■ 1246 x 308 mm (M625)</li> <li>■ 1720 x 296 mm (M1800)</li> </ul>		
<b>48 LEDs</b> <ul style="list-style-type: none"> <li>■ 596 x 596 mm (M600)</li> <li>■ 621 x 621 mm (M625)</li> <li>■ 1196 x 296 mm (M300)</li> <li>■ 1246 x 308 mm (M625)</li> <li>■ 1720 x 296 mm (M1800)</li> </ul>		



U7 with air extraction.









U7 with LED module for emergency lighting.



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

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

<b>Colours:</b>	white (RAL 9003) and grey structure paint; black (RAL 9005) upon request
<b>Colour temperature:</b>	3,000 K or 4,000 K
<b>Luminous flux:</b>	varies from 600 lumen to 6,650 lumen, depending on type of lens and number of LEDs
<b>Light distribution:</b>	medium angle, wide angle, extreme wide-angle or asymmetric. Suspended luminaires with uplight
<b>Optional extras:</b>	light controls, module for emergency lighting (depending on version)



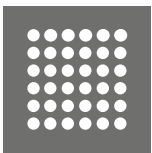

SURFACE-MOUNTED	
<b>18 LEDs</b> ■ 1500 x 75 mm	
<b>24 LEDs</b> ■ 600 x 600 mm ■ 1500 x 150 mm ■ 1680 x 150 mm (in line)	 
<b>36 LEDs</b> ■ 600 x 600 mm ■ 1500 x 150 mm ■ 1680 x 150 mm (in line)	 
<b>48 LEDs</b> ■ 1920 x 150 mm	



R7 surface mounted in line.



Square surface-mounted R7 with ELS light sensor.

SUSPENDED	
<b>18 LEDs</b> ■ 1500 x 75 mm	
<b>34 LEDs (*)</b> ■ 1500 x 150 mm ■ 1680 x 150 mm (in line)	
<b>56 LEDs (**)</b> ■ 600 x 600 mm ■ 1500 x 150 mm ■ 1680 x 150 mm (in line)	 

(\*) 24 downlight and 10 uplight

(\*\*) 36 downlight and 20 uplight



The suspended R7 produces standard 30% uplight.



## U7/R7

- 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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