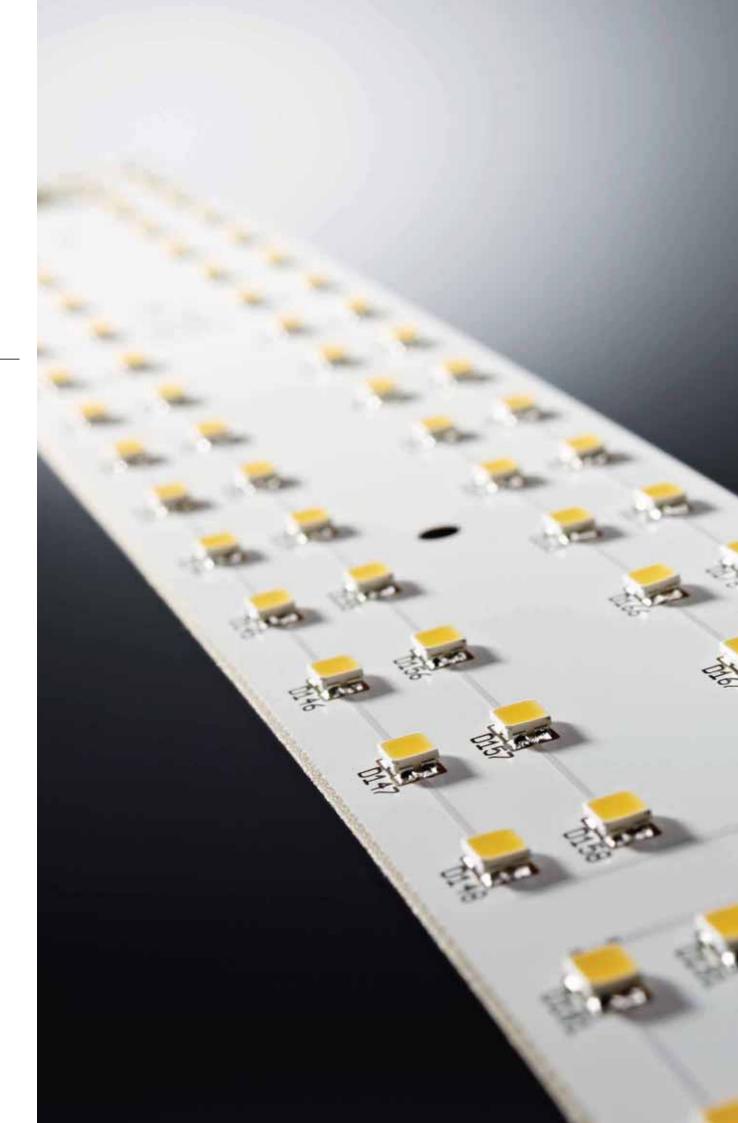
LEDs - a source of inspiration









ETAP

Ground-breaking with LEDs

LEDs are in, and that's not a coincidence. Today, this innovative light source offers an economical and ecological responsible alternative for a number of classical light sources. Of course on the condition that the LED solutions have been thoroughly technically tested. That this is not evident is unfortunately apparent by the large numbers of LED luminaires that flood the market. A piece of cake for the ETAP engineers, who have a strong reputation in the development of new, ground-breaking and technically reliable luminaires.

Already in 2003, ETAP – as one of the first in the sector – introduced LEDs into emergency lighting. Today, we use only LEDs for emergency lighting. For lighting we offer a great choice. Indeed, ETAP follows the evolution of the LED closely, and uses the positive characteristics to their fullest. You can find the result of all these developments in this catalogue.

Check our website for the most recent developments.







ETAP

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U7

Recessed square luminaires

Design EER Architectural design, Belgium

Technology LED+LENS™

Material sheet steel

Colour structure lacquer RAL9003

other colours upon request

Colour temperature 3000K or 4000K

Luminous flux from 2500 to 5000 lumen

Luminous efficacy up to 82 lm/W

Measurements see www.etaplighting.com

Light distribution medium wide-angle, wide-angle

Options integrated light control and emergency lighting

air extraction

frame for mounting in plaster ceiling

U7 with air extraction









Design EER Architectural design, Belgium

Technology LED+LENS™

Material sheet steel

Colour structure lacquer RAL9003

other colours upon request

Colour temperature 3000K or 4000K

Luminous flux from 2500 to 5000 lumen

Luminous efficacy up to 82 lm/W

Measurements see www.etaplighting.com

Light distribution medium wide-angle, wide-angle, asymmetric

Options integrated light control and emergency lighting

air extraction

frame for mounting in plaster ceiling



UM2



Recessed luminaires

Technology LED + MesoOptics™ diffuser

Material extruded aluminium

MesoOptics™ foil on safety glass

Colour temperature 3000K or 4000K

Luminous flux from 3100 to 3300 lumen

Luminous efficacy up to 87 lm/W

Measurements see www.etaplighting.com

Light distribution medium wide-angle

Options integrated light control

air extraction

frame for mounting in plaster ceiling

- 1. LEDs ensure perfect illumination of the diffuser
- 2. UM2 with air extraction
- 3. UM2 with daylight dependent control (ELS)









Surface mounted luminaires

Design EER Architectural design, Belgium

Technology LED+LENS™

Material sheet steel

Colour structure lacquer RAL9003 - RAL9006

other colours upon request

Colour temperature 3000K or 4000K

Luminous flux from 2500 to 5000 lumen

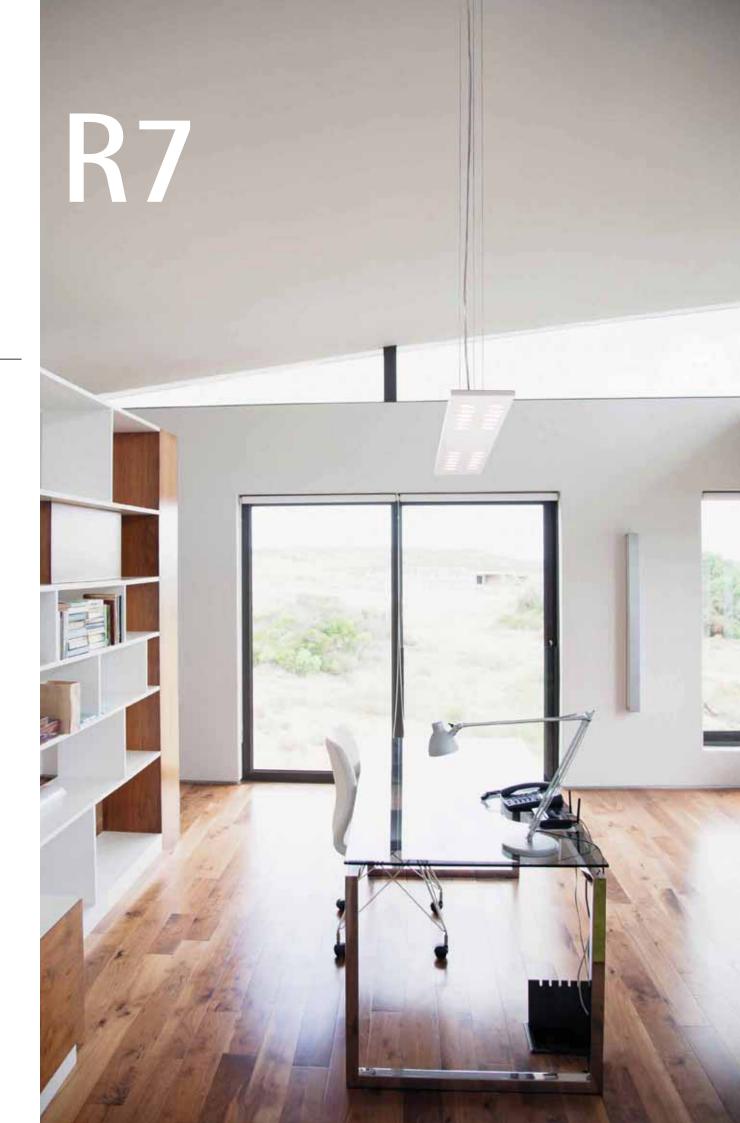
Luminous efficacy up to 82 lm/W

Measurements see www.etaplighting.com

Light distribution medium wide-angle, wide-angle, asymmetric

Options integrated light control and emergency lighting







R7

Suspended luminaires

Design EER Architectural design, Belgium

Technology LED+LENS™

Material sheet metal

Colour structure lacquer RAL9003 - RAL9006

other colours upon request

Colour temperature 3000K or 4000K

Luminous flux from 2500 to 5000 lumen

Luminous efficacy up to 82 lm/W

Measurements see www.etaplighting.com

Light distribution medium wide-angle, wide-angle, asymmetric

Options integrated light control and emergency lighting

- 1. R7 suspended luminaire line mounting
- 2. R7 uplight









R8

Surface mounted and suspended luminaires

Technology LED + HaloOptics® diffuser

Material housing: profile extruded aluminium

Colour temperature 3000K or 4000K

Luminous flux from 1200 to 3100 lumen

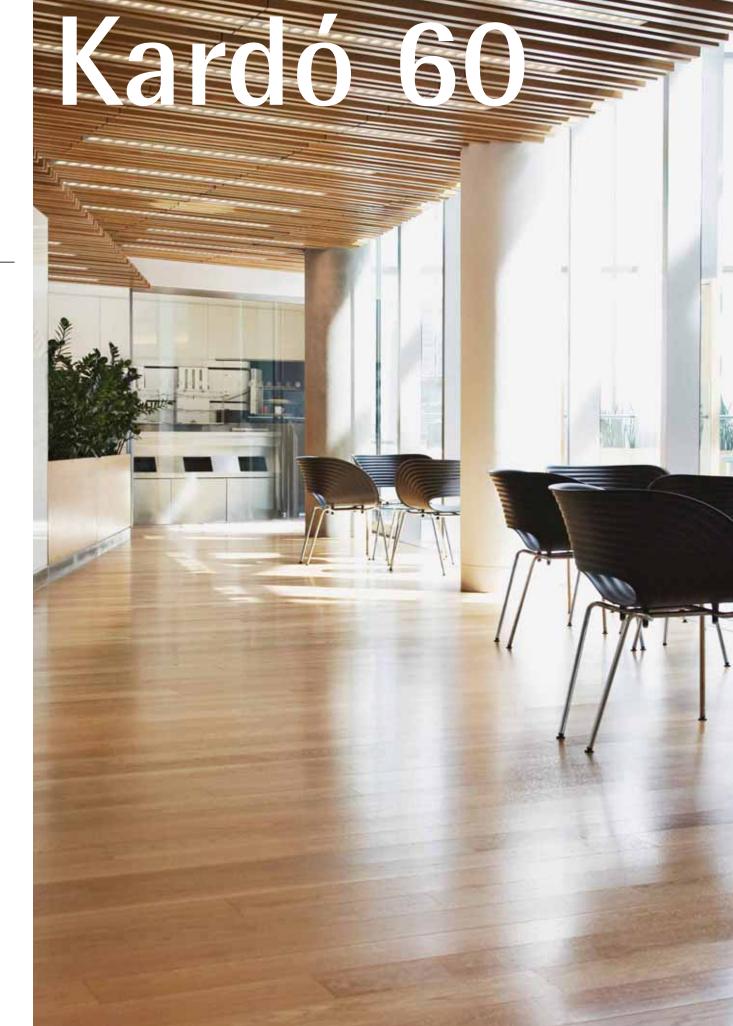
Luminous efficacy up to 88 lm/W

Measurements Ø 90 mm

Light distribution diffuse









19

Colour temperature 3000K or 4000K

Luminous flux uplight: 1000 lumen

diffuser: 1500 lumen lens: 2000 lumen

Luminous efficacy uplight: up to 65 lm/W

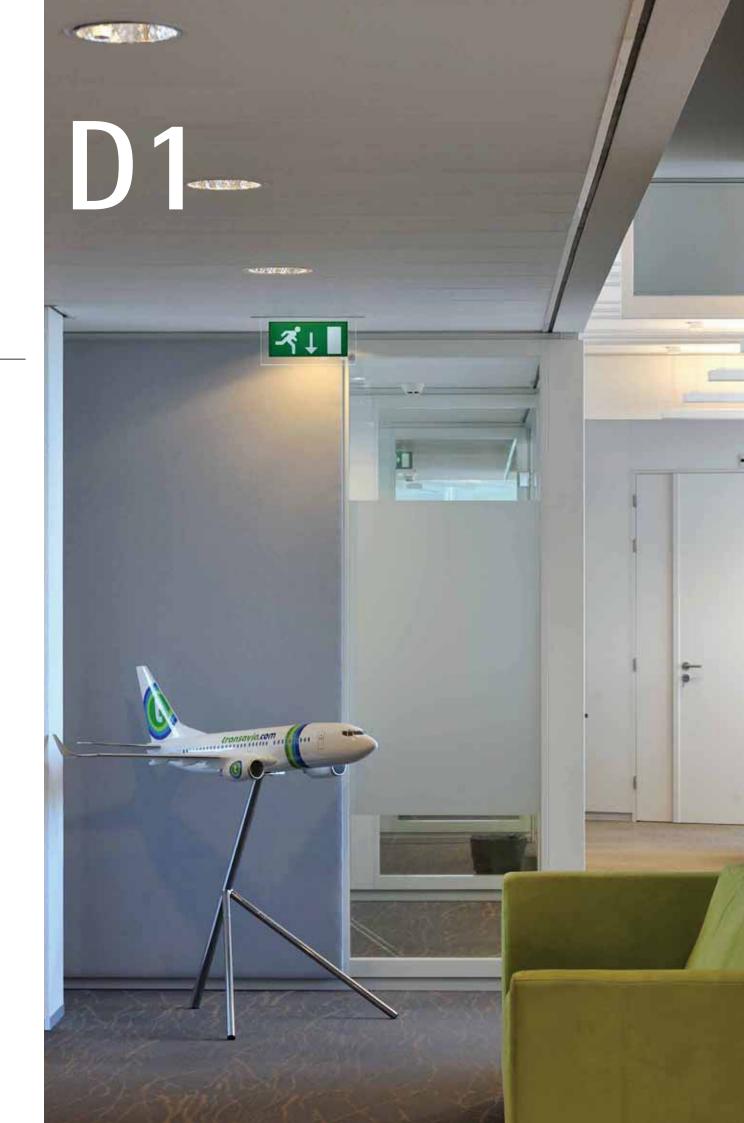
diffuser: up to 77 lm/W lens: up to 74 lm/W

Light distribution medium wide-angle, diffuse

Options integrated light control and emergency lighting

Kardó 60 with diffuser







Downlights

Technology LED module

Material reflector: specular or satin-anodised aluminium

trim: sheet steel

Colour trim: RAL9003 - RAL9006

Colour temperature 3000K or 4000K

Luminous flux from 1000 to 2800 lumen

Luminous efficacy up to 79 lm/W

Measurements see www.etaplighting.com

Light distribution wide-angle

Options integrated light control and emergency lighting

Accessories frosted disc – glass ring – IP44 design

- 1. Cooling body
- 2. D1 with specular reflector
- 3. D1 with glass ring











Downlights

Technology LED module

Material housing: aluminium

reflector: specular or satin-anodised aluminium

Colour RAL9003 - RAL9006

Colour temperature 3000K or 4000K

Luminous flux from 1000 to 2800 lumen

Luminous efficacy up to 79 lm/W

 $Measurements \hspace{0.5cm} \emptyset \hspace{0.1cm} 200 \hspace{0.1cm} mm, \hspace{0.1cm} surface \hspace{0.1cm} height: \hspace{0.1cm} 210 \hspace{0.1cm} mm$

Light distribution wide-angle





Downlights

Technology LED module

Material reflector: specular or satin-anodised aluminium

trim: sheet steel

Colour trim: RAL9003 - RAL9006

Colour temperature 3000K or 4000K

Luminous flux from 1000 to 2800 lumen

Luminous efficacy up to 73 lm/W

Measurements $\quad \oplus$ 175 mm, mounting depth: 140 mm

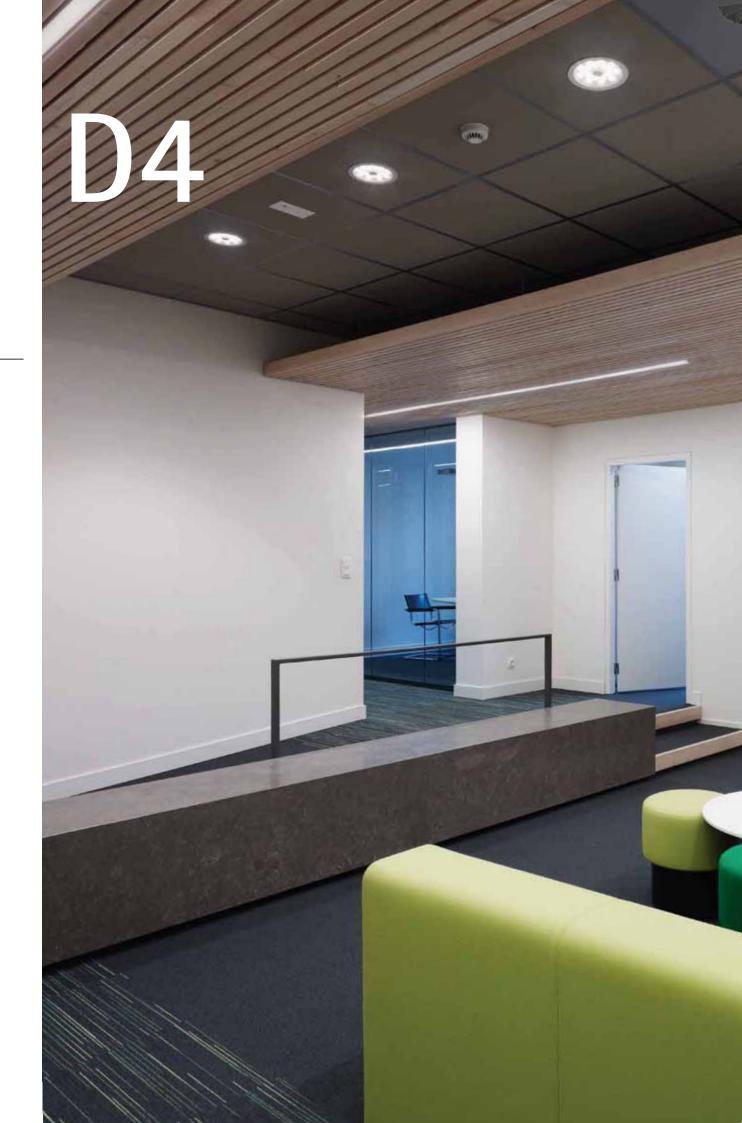
Light distribution wide-angle

Options integrated light control and emergency lighting

Accessory IP44 design

D3 with reflector









Downlights

Technology LED+LENS™

Material housing: die cast aluminium

Colour RAL9003 (white), RAL9005 (black) and grey

other colours and color combinations upon request.

Colour temperature 3000K or 4000K

Luminous flux from 1440 to 3030 lumen

Luminous efficacy up to 69 lm/W

Measurements \emptyset 200 mm - \emptyset 250 mm, mounting depth: 68 mm

Light distribution wide-angle

Options integrated light control and emergency lighting

washer for soft ceilings

Accessory IP44 cover plate

- 1. Ø 200 mm red housing, red LED module
- 2. Ø 250 mm black housing, black LED module
- 3. Ø 250 mm grey housing, grey LED module







- 4. D4 with K9 emergency lighting module
- 5. Cooling element







haled



Ehaled

Recessed luminaires

Technology LED + HaloOptics® diffuser

Material white sheet steel housing

diffuser (PMMA)

Colour temperature 3000K or 4000K

Luminous flux 1070 lumen

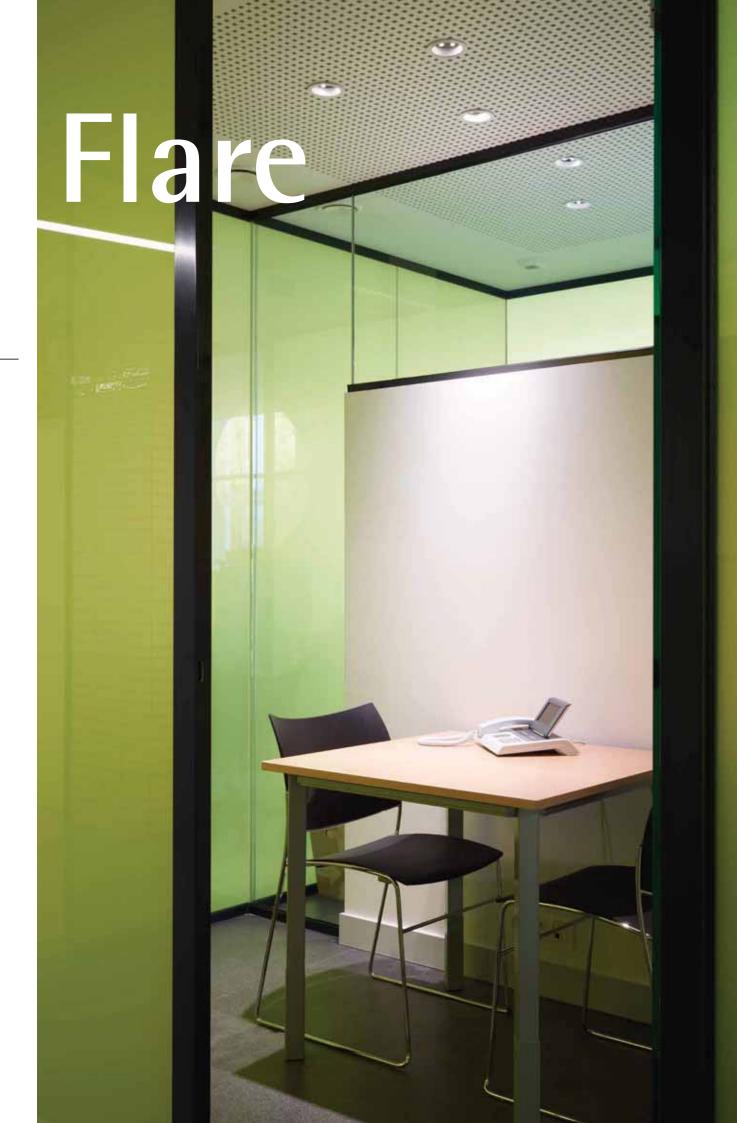
Luminous efficacy up to 53 lm/W

Measurements Ø 310 mm, mounting depth: 126 mm













Flare

Spots

Technology LED+LENS™

Material housing: die cast aluminium

Colour RAL9003 (white), RAL9005 (black) and grey

other colours and color combinations upon request.

Colour temperature 3000K or 4000K

Luminous flux from 323 to 773 lumen (3, 4 or 7 leds)

Luminous efficacy up to 56 lm/W

Measurements Ø 98 mm, recessed height: fixed: 63 mm, pointable: 93 mm

Light distribution light beam 16°, 24°, 36°

Option mounting box for concrete ceilings

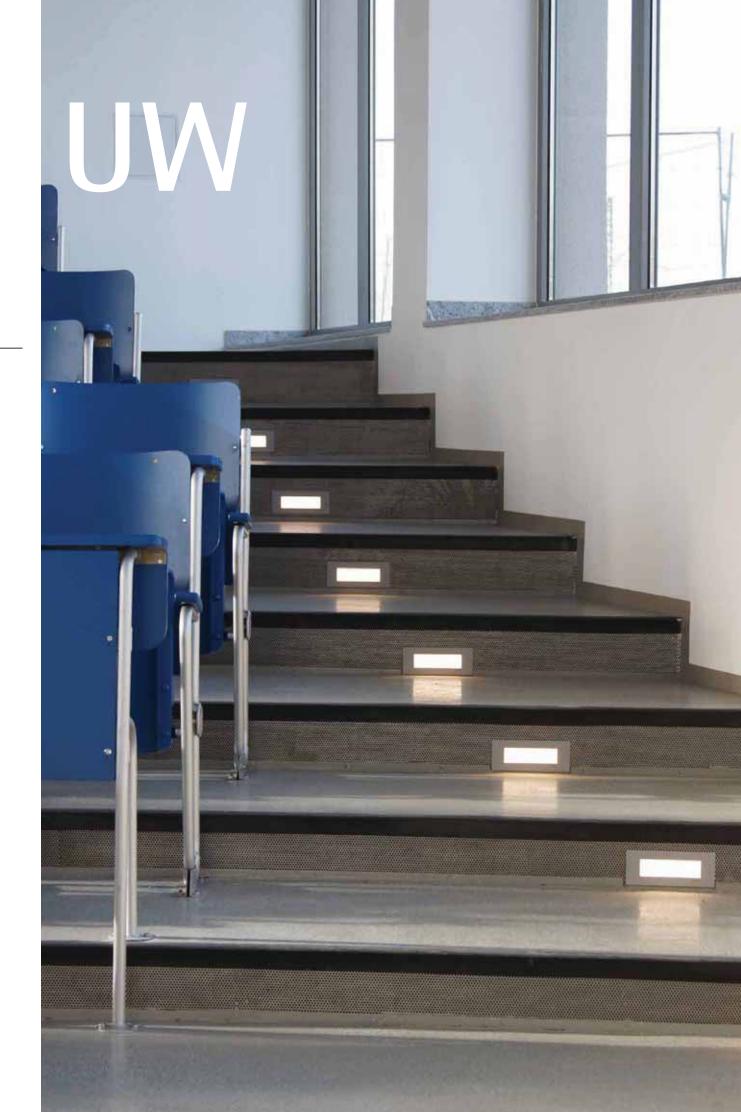
- 1. Flare spot with 3 LEDs, white housing black LED module
- 2. The Flare spot is tiltable up to 25°
- 3. Flare spot with installation clamps for hollow ceilings
- 4. Flare spot with 7 LEDs, black housing black LED module















UW

Wall luminaires

Technology LED + diffuser

Material sheet steel housing, with aluminium front plate

diffuser - acrylate

Colour RAL9003 - RAL9006

Colour temperature 3000K or 4000K

Luminous flux 116 lumen

Luminous efficacy up to 29 lm/W

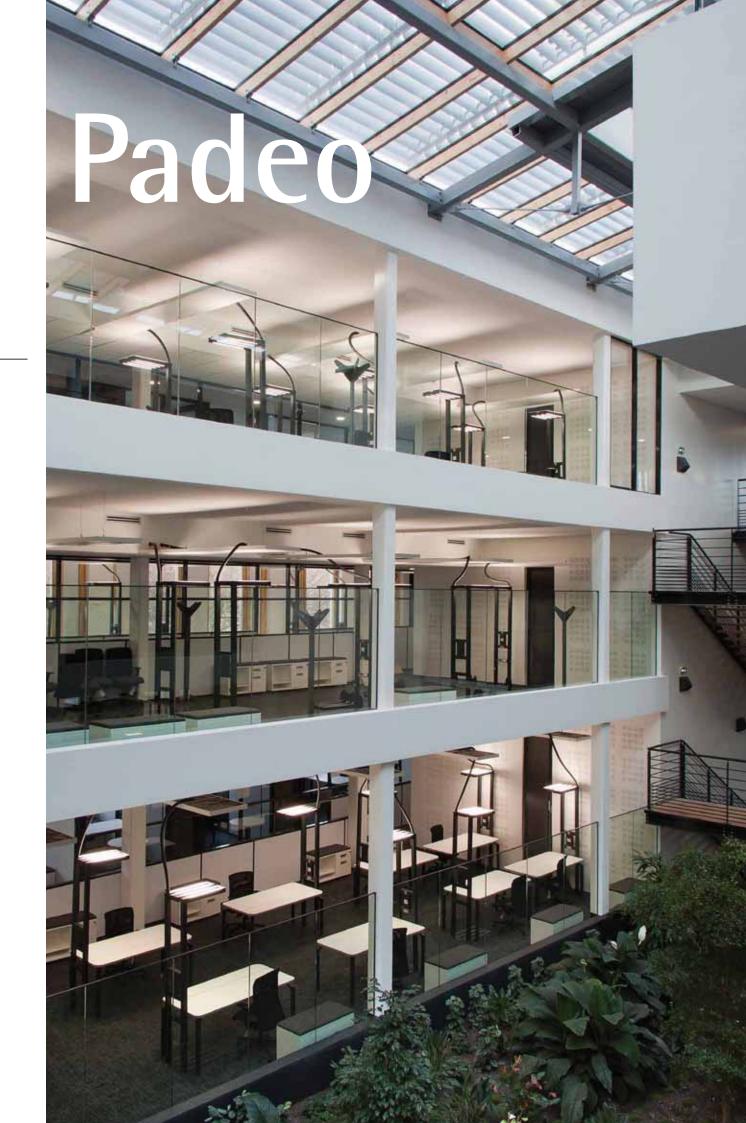
Measurements width x height: 200 x 80 mm, depth: 43 mm

Light distribution extreme wide-angle

Option mounting box for concrete surface

Extreme wide-angle light distribution











E**7**

Light line systems

Technology LED+LENS™

Material base: lacquered sheet steel housing

module: extruded aluminium

Colour RAL9003

other colours upon request

Colour temperature 3000K or 4000K

Luminous flux 3000 to 12000 lumen

Luminous efficacy up to 82 lm/W

Measurements module: 78 x78 mm, length: 1, 2, or 4 m

Light distribution narrow-angle, medium wide-angle, wide-angle,

asymmetric

Options integrated light control and emergency lighting

central battery system (EBS)

- 1. E7 suspended luminaire with 2 light modules
- 2. E7 surface mounted luminaire, line mounting









High protection factor luminaires

Technology LED+LENS™

Material fiberglass enforced polyester housing

protection from acrylate of polycarbonate

polyurethane seal

quick release mounting brackets and stainless steel

Colour not applicable

Colour temperature 4000K

Luminous flux from 3000 to 4600 lumen

Luminous efficacy up to 80 lm/W

Measurements see www.etaplighting.com

Light distribution narrow-angle, medium wide-angle, wide-angle

Specific characteristics IP65 protection grade

IK03 impact resistant by PMMA IK08 impact resistant by PC









K7

Recessed and surface luminaires for emergency lighting and signage

Material housing and diffuser: impact-resistant polycarbonate

mounting bracket: galvanised steel

Measurements see www.etaplighting.com

Light distribution foil, viewing distance: 26m

perfect evenly distributed illumination, conform to EN 1838 $\,$

Self test gives a warning signal when the brightness under emergency conditions

drops below 2 cd/m²

- 1. K7 recessed luminaire
- 2. K7 wall luminaire
- 3. K7 suspended luminaire
- 4. Optional: lightspot module or escape route module
- 5. K7 escape route lighting with wide-angle distribution

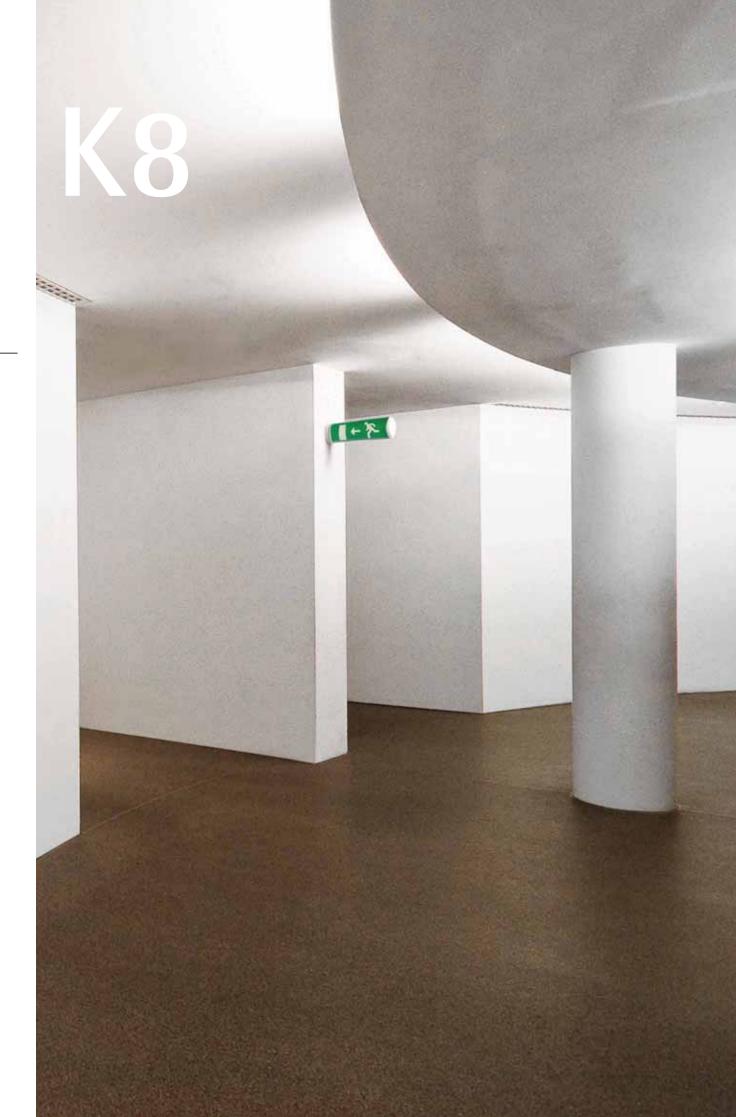














K8

Surface luminaires for emergency lighting and signage

Material base made out of hardened steel and aluminum, end pieces out of aluminum,

painted white (RAL9003)

HaloOptics® diffuser for high efficiency

Measurements 290 x 90 mm

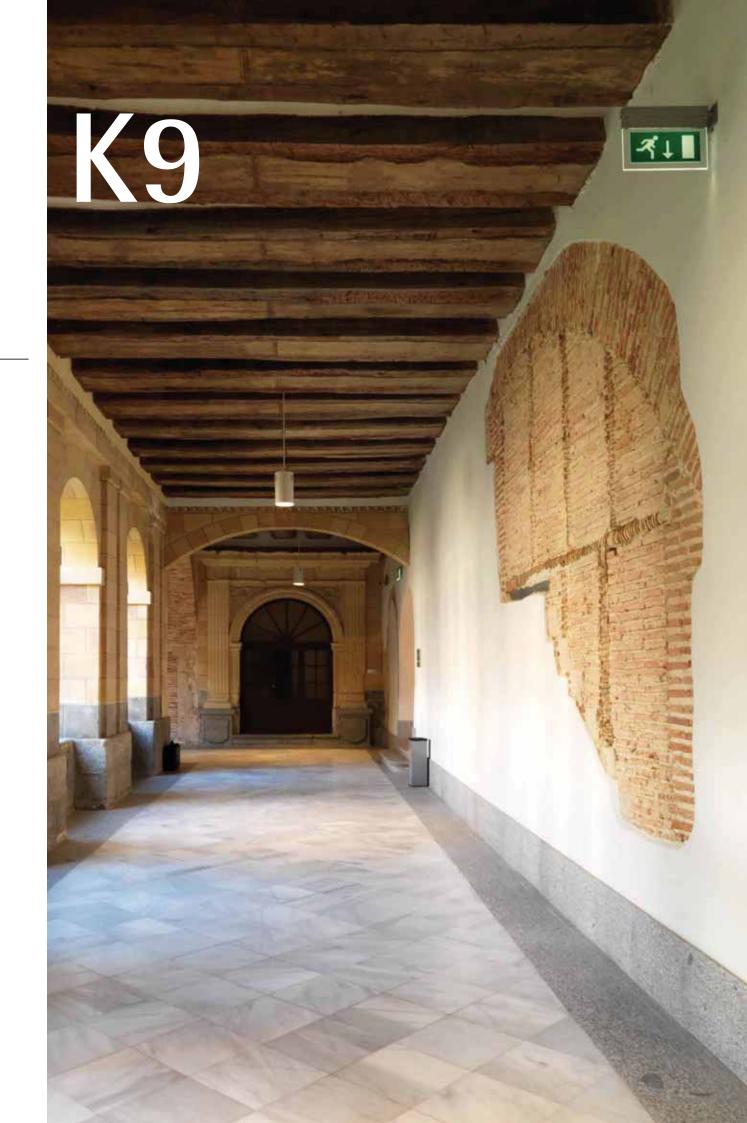
Light distribution perfect evenly distributed illumination, conform to EN 1838

- 1. K8 anti-panic and escape route lighting
- 2. K8 perpendicular wall mounting
- 3. K8 suspended mounting













K9

Recessed and surface luminaires for emergency lighting and signage

Material housing: pressure die cast aluminium, painted white aluminium (RAL9006),

white (RAL9003) as option

housing recessed: white (RAL9003) or white aluminium (RAL9006)

painted sheet steel

sign plate: polymethyl metacrylate (PMMA)

Measurements see www.etaplighting.com

Light distribution perfect evenly distributed illumination, conform to EN 1838

Self test gives a lamp warning when the brightness under emergency conditions drops

below 2 cd/m²

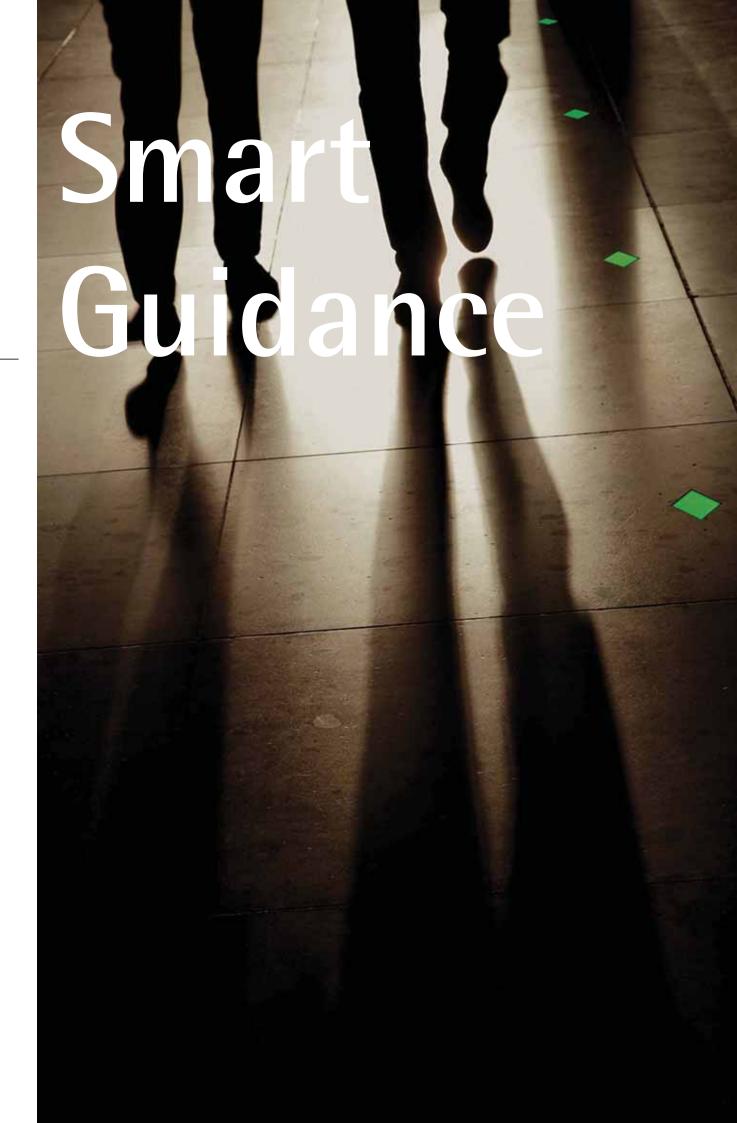
- 1. K9 wall luminaire for maintained signage
- 2. Automatic self test
- 3. K9 suspended luminaire for maintained signage
- 4. K9 recessed luminaire for escape route lighting
- 5. K9 recessed luminaire for maintained signage

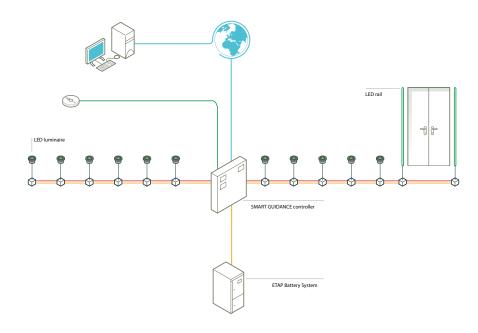












Smart Guidance

System

Smart Guidance is a system that guides large groups of people to their destination in an intelligent and intuitive manner. In emergencies, the system allows for faster evacuation, thanks to the dynamic lighting which indicates the route to be followed. In normal conditions, Smart Guidance guides people to their destination in a more orderly fashion.

Components

luminaires ground or wall luminaires alongside route

LED rail next to (emergency) exit

power supply for the luminaires

controller central control of the luminaires, dynamic adjustment of light

signals as a function of the conditions

emergency supply for the system

- 1. Ground spot
- 2. LED rail for exits
- 3. UW wall luminaire









Bespoke luminaires

With our experienced development team and our flexible production, we can easily meet your request for customization in lighting and emergency lighting with LEDs as well as with fluorescent lamps. You can specify shape, colour, light techniques, air treatment, measurements, mounting or electrical connection to meet your needs. We have already delivered customized luminaires for countless projects.

L und M

L und M, the German specialist in data processing, is a good example of customisation. This company chose a unique LED solution that changed the server room into an impressive display of lights. Visitors are offered various vantage points to watch the server space, which extends over three floors.

The custom designed luminaires consist of

90 tubular HaloOptics® polycarbonate diffusers that are attached to the ceiling with transparent cables. The ceiling contains also the Dali ballasts that allow the LED luminaires to be dimmed per floor. Programmable, dynamic scenes thus enable different light movements and patterns to be displayed from the central server over the full height of the building.











Designing with LEDs

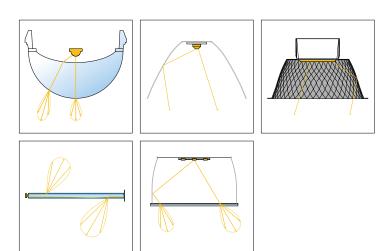
An LED is a completely different light source than a fluorescent lamp. LEDs are a lot smaller, but also are more luminous. In order to achieve optimal use of light, a specific optic design of a luminaire is necessary.

Most LEDs have wide angled distribution and they illuminate in an angle of 80 to 140° (complete angle). With the help of secondary and tertiary optics (lenses, diffusers, reflectors or combinations thereof) we can achieve the specific distribution. An appropriate distribution of light is important in order to keep the specific power, and thus the energy consumption, as low as possible.

Because of our 10 year experience with the design of LED luminaires, ETAP knows all these technologies. That way we are not limited to one solution, rather in all functions of the application we can always make the right choices. Below you shall find a schematic overview of the solutions which we have successfully applied in our luminaires.

If you would like more information about the LED technology, please check the LED Dossier at www.etaplighting.com/downloads/leaflets

- 1. High power LED+LENS™
- 2. High power LED reflector
- 3. LED module reflector
- 4. High power LED light guide
- 5. Low power LED reflector & diffuser





solutions

- General lighting, accent lighting and emergency lighting
- For offices, shops, reception areas, schools, hospitals, warehouses, factories etc.
- Recessed, surface, suspended luminaires and wall luminaires
- Various optics such as lenses, diffusers, reflectors or light conductors
- High power LEDs, low power LEDs and LED modules
- Standard products and customized solutions

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EXCELLENT LIGHTING, SAVING ENERGY

