

AMPHIBIA



Active Light | Connecting with Nature

Creating Light Creates Precision

01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12:00

Active Light in industry is as unique and dynamic as the employees, the processes and the layout of different production halls. Human Centric Lighting puts the focus of the lighting design firmly on the individual. Visual, emotional and biological needs are fully supported by a blend of Active Light and additional workplace-oriented lighting for work during the day and the night. This approach also facilitates accurate working and improved quality. Pioneering lighting solutions with activity-based lighting use innovative sensor technology to automatically adapt to the specific situation.

Find out how Active Light works:
zumtobel.com/activelight



Intensity

Dynamically adjusted lighting levels help employees with their regular visual tasks. Active Light helps reduce error rates and increase worker safety.



Direction

Uniform and shadow-free illumination minimises glare – even with glossy surfaces. Adjusting the direction of the light towards the visual object with Active Light enhances visual quality. Precise work is promoted and fatigue is simultaneously kept to a minimum.



Colour

Active Light means tailoring light colours to reflect age, user preference and working hours, increasing well-being and boosting employee productivity.



Time

Artificial light based on the natural course of the day helps support the internal clock. Luminaires controlled by sensors, which only switch on when light is required, reduce costs and minimise energy consumption.

**Not that you would ever
need our luminaire in the jungle.
But you could.**





Built to resist.

Industry applications are tough places. AMPHIBIA helps customers achieve their targets and minimise risks. Different versions fulfil the most demanding lighting tasks by combining high performance levels with strong resistance against water, dust, chemicals and extreme temperatures.



The luminaire housing and diffuser are made from the same material. This means that the product maintains full resistance during any physical expansion caused by changes in temperature.



Mechanical resistance

A compact design and highly impact-resistant materials provide the kind of mechanical stability required for logistics, agriculture and car-park applications.



Temperature resistance

A consistent material concept and a specially engineered gear tray make sure that the luminaire can withstand ambient temperatures ranging from -35 °C to + 50 °C.



Chemical resistance

The versatility of AMPHIBIA is based on the specific benefits of three materials. These offer maximum resistance against chemical substances such as acids, alkalis, halogens, solvents, fats and oils.



The world's leading supplier of industrial cleaning and hygiene products has confirmed the resistance of AMPHIBIA PMMA and AMPHIBIA Chemo versions.



Ammonia puts luminaires in livestock industries to the test. AMPHIBIA PMMA meets the international standards set out by the German Agricultural Society (Deutsche Landwirtschafts Gesellschaft).



One housing One material

PMMAplus

This special acrylic is not only highly transparent, but also resistant against impacts, UV radiation and weather. Even the risk of tension cracking has been minimised. When it comes to chemicals, luminaires made of PMMAplus are able to withstand a variety of acids, alkalis, halogens, mineral oils, fats and oils.

Chemo

The unique plastic compound combines wide-ranging chemical resistance with high impact resistance and durability – tension cracks therefore become a thing of the past. This highly translucent luminaire is also able to cope with alkalis, anorganic salts, solvents, fuels, fats and oils.

PC

Stability is the top priority when people or objects come into direct contact with the luminaire. The most mechanically robust luminaire in the portfolio is also UV-stable, high-impact and chemically resistant against alcohol, ethanol or hydrogen peroxide.

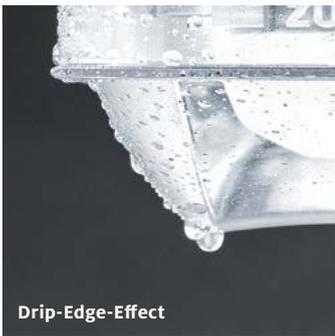


Built to stay clean.

AMPHIBIA stays clean. Waste water has no chance, it simply drips off without dirtying the optics, while surfaces and niches where dust could gather have been completely avoided. Not even a mounting clip interrupts the smooth surface of the entirely transparent and IP66-protected luminaire.



With a protection class of IP66, AMPHIBIA is dust-tight and protected against strong water jets.



Compact

Hygienic design starts with a smooth surface that leaves no place for deposits. With Invisi-Click, AMPHIBIA has swapped a conventional fastening clip for a clipless version that works out of sight.

Smart

A long list of technical refinements enable AMPHIBIA to stay clean for longer. Injection edges with an angle of more than 15° and optics with a Drip-Edge-Effect help guide dust and water away from the fitting.

Easy to clean

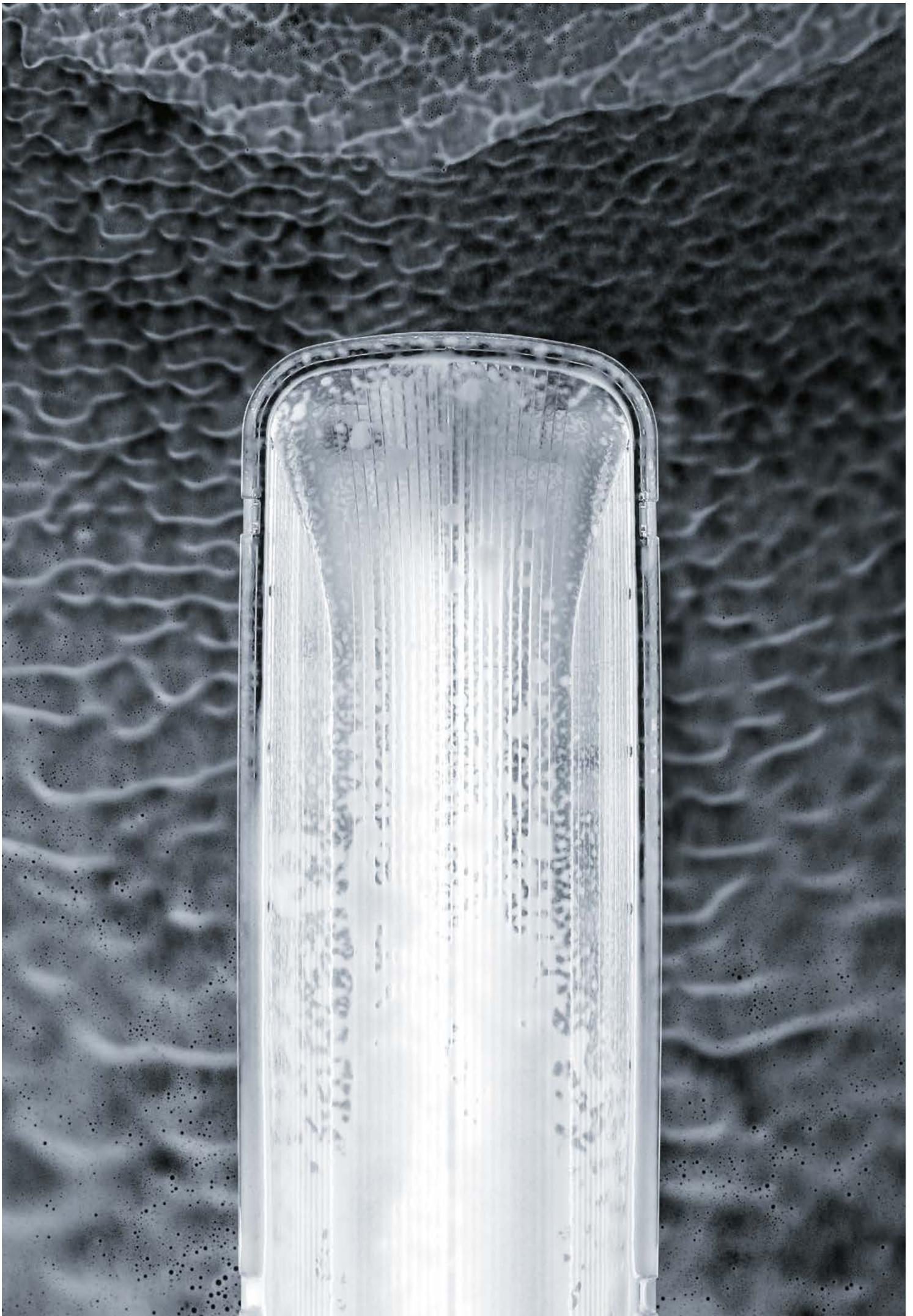
Rounded corners and smooth surfaces support quick and easy cleaning – especially as pressure washers and strong detergents can be used if required.



Cleaning experts have confirmed that AMPHIBIA can be safely cleaned with the most commonly used cleaning agents and disinfectants, alkaline solutions and acidic descaling agents in the food industry.



An innovative luminaire design and high resistance levels enable AMPHIBIA to fulfil the strict hygiene requirements of the food industry (HACCP).





Built to bring spaces to life.

When fulfilling visual tasks on point priorities can vary. Sometimes, it is ensuring the effective illumination of extensive production areas. Other times, the focus is on long corridors of high-level racking or busy traffic routes. AMPHIBIA hits the mark from every height – with good uniformity and maximum efficiency.

From narrow to wide or asymmetrical:
AMPHIBIA offers distributions for the most diverse lighting tasks – with high visual comfort every time.

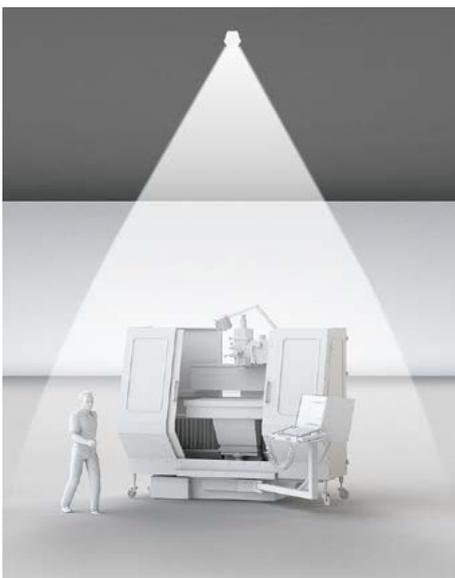


Narrow Beam (NB)

The narrow-beam distribution directs high light levels onto shelves and down to the floor from heights of up to 8 metres, making it the ideal choice for high production facilities and logistics halls.

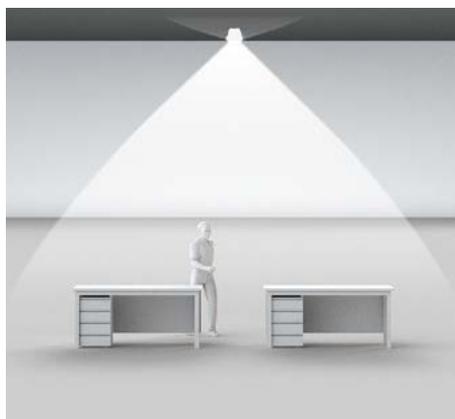
Impressively effective

AMPHIBIA fulfils different visual tasks with maximum effectiveness. Homogeneous light without glare is offered in four beam characteristics for high halls and low rooms, for wide areas and narrow corridors.



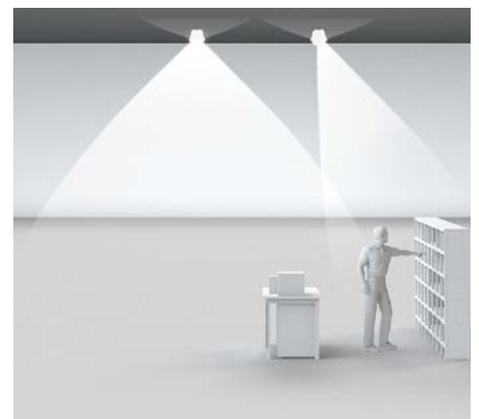
Medium Beam (MB)

Production and logistics areas with mounting heights of between 4 and 6 metres can benefit from the optimum efficiency achieved by this medium-wide option.



Wide Beam (WB)

The wide light distribution makes it possible to evenly illuminate production areas, shelving units and corridors – even from low mounting heights.



Asymmetric Beam (AB)

Focused asymmetric light provides high vertical illuminance for added visual comfort in rooms with heights of up to 4 metres (such as car parks or production zones).

Length

1100 mm | 1600 mm

Material

PMMAplus | Chemo | PC

Light distribution

Narrow Beam | Medium Beam |
Wide Beam | Asymmetric Beam

Colour temperature

3000 K | 4000 K | 6500 K

Colour rendering

Ra > 80

Glare Control

UGR < 22

Luminaire efficiency

Up to 150 lm/W

Protection class

IP66

**Optical diffuser cover**

Linear microprisms broaden the light distribution in line with the visual task. Luminaires with a narrow or medium-wide beam only require light to be emitted laterally, while a completely structured diffuser generates the wide and asymmetrical light distributions.

Diffuse primary optics

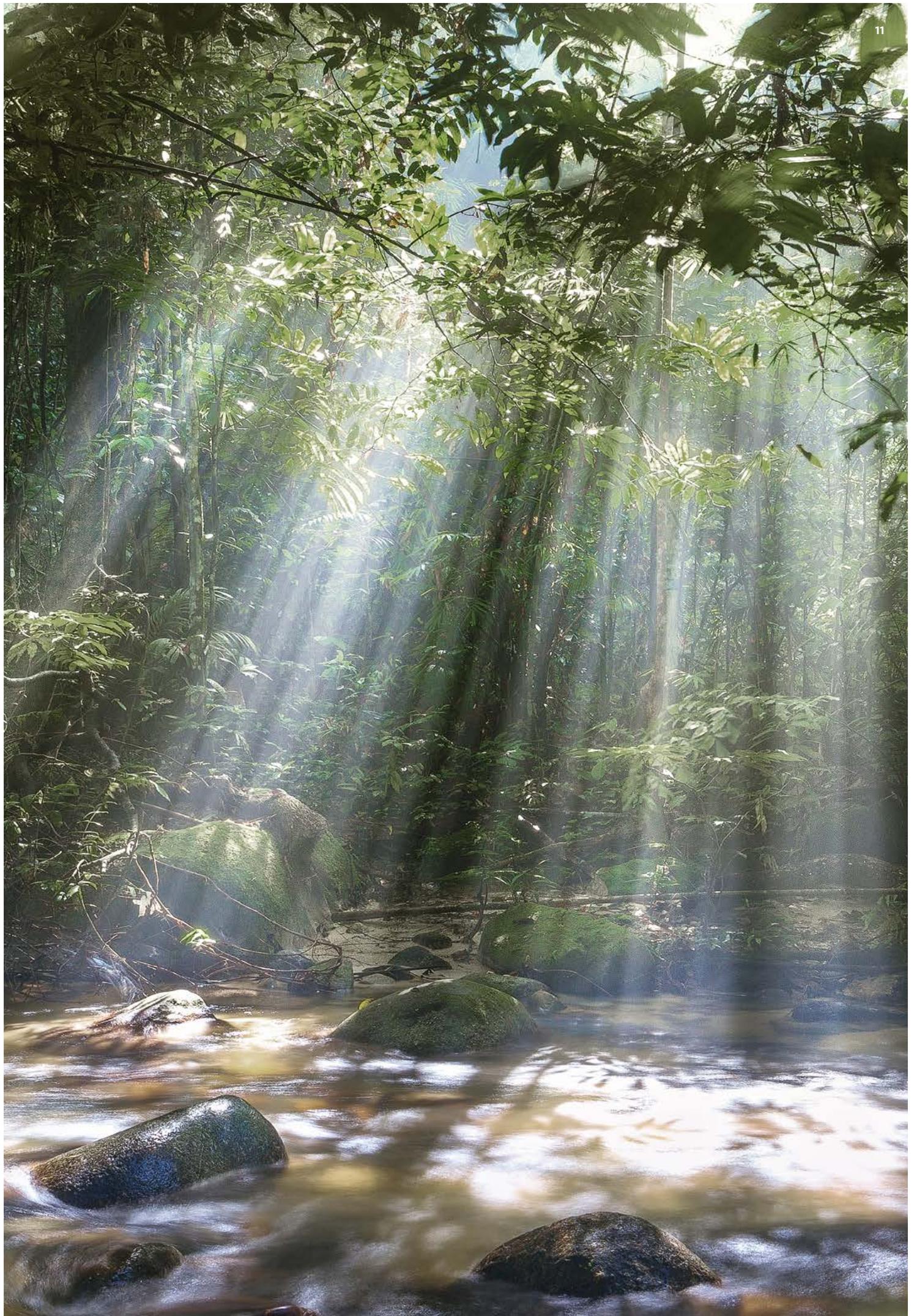
A diffuse optic mounted above the LEDs dissolves the individual light points. This helps AMPHIBIA produce homogeneous glare-free light.

LED module

The precise light output and high luminaire efficiency stem from powerful LED modules, which are photometrically optimised and positioned according to the visual task.

Direct and indirect light

A completely clear luminaire covers all requirements. Wide-beam and asymmetric luminaires create a pleasant spatial effect through an indirect light component, while narrow-beam and medium-beam versions of AMPHIBIA use direct light to illuminate higher rooms with maximum efficiency.



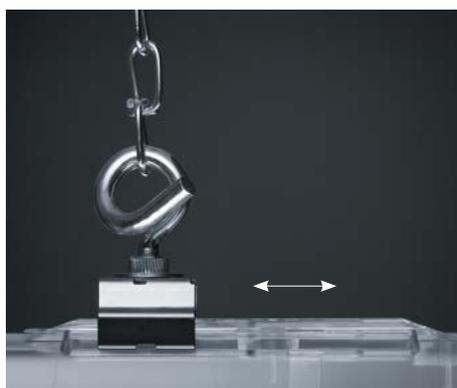
Built to be flexible.

Whether a ceiling or a wall, horizontal or vertical – whatever you need, AMPHIBIA promises the highest installation flexibility on the market. This moisture-proof luminaire can be safely positioned and neatly installed in just a few simple steps – in even less via a BESA box.



Invisible and safe: InvisiClick

The diffuser is simply pressed or 'clicked' in firmly – without the need for any tools or fastening clips. The luminaire can then be swiftly opened again with a screwdriver.



Plenty of room to move

With adjustable mounting brackets and mounting slots of up to 217 mm, AMPHIBIA can be positioned quickly, easily and accurately every time.



Flexible wiring

Every AMPHIBIA offers ten input cable entry points and a through-wiring alternative. Installation via a plug connector is also possible.



Built to be precise.

As a truly versatile lighting tool, AMPHIBIA complies with all the norms and standards associated with a modern lighting solution. For example, it adheres with the newly introduced specifications for parking garages by achieving the required cylindrical illuminance levels for parking areas.

Room height	Production	Logistics	Car park
2,5 m	Wide Beam	Medium Beam Wide Beam	Asymmetric Beam Wide Beam
4 m	Wide Beam	Medium Beam	Wide Beam
6 m	Medium Beam	Medium Beam	
8 m	Narrow Beam	Narrow Beam	



Until now

EN 12464-1:2011 defines minimum values for horizontal illuminance on the ground.

Traffic routes

min. 75 lx horizontal

$g_r = 0.4$

Parking areas

min. 75 lx horizontal

$g_r = 0.4$



In the future

The aim of DIN 67528:2017-09 is to use specifications for cylindrical and vertical illuminance levels at different heights to improve visibility, while at the same time not wasting any energy.

Traffic routes

min. 50 lx cylindrical

1.2 m high above the floor

$g_r = 0.4$

Parking areas

min. 50 lx vertical

1.5 m from drive lane

0.8 m, 1.2 m and 1.6 m high above the floor

$g_r = 0.4$

AMPHIBIA

Moisture-proof luminaire



Metal

Wide Beam | Medium Beam
2.5 m - 6 m room heights

UGR < 22

CHEMO



IP66



-25 °C
+35 °C



Food

Wide Beam | Medium Beam | Asymmetric Beam
2.5 m - 6 m room heights

UGR < 22

PMMAplus | CHEMO



IP66



-25 °C
+35 °C



Logistics

Medium Beam | Narrow Beam
up to 8 m room heights

UGR < 25

PC



IP66



-35 °C
+50 °C

ECO
LAB

FOOD
Certi-
ficate


Ra > 80

long-lasting



identical material for housing and diffuser
expands at the same rate

direct
100 %

Medium Beam
Narrow Beam

15 %
indirect

direct
85 %

Wide Beam
Asymmetric Beam

3000 K

4000 K

6500 K

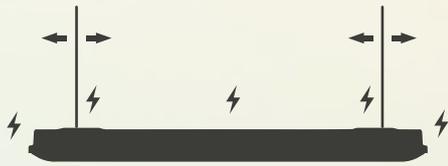

2900 lm


4000 lm


4600 lm


6400 lm


8000 lm



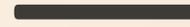
versatile



space-saving
-20%
height 90 mm



time-saving
-90%
InvisiClick
to attach the optic



AMPHIBIA L
1600 mm



AMPHIBIA S
1100 mm



680 mm



390 mm



ceiling mounting



mounting
on trunking



chain
suspension



wall mounting

DIN
67528



Parking

Wide Beam | Asymmetric Beam
2.3 m - 3 m room heights

UGR < 22

PC



IP66



UV-
beständig



Agriculture

Wide Beam | Medium Beam | Asymmetric Beam
2.5 m - 6 m room heights

UGR < 22

PMMAplus



IP66



-25 °C
+35 °C



245

application areas
illuminated to
EN standards



Drip-Edge-Effect



smooth surface
without fastening clips



rounded
corners



injection edge

hygienic



luminaire efficiency up to
150 lm/W



lifetime
50 000 h L90



emergency
lighting



presence
detectors

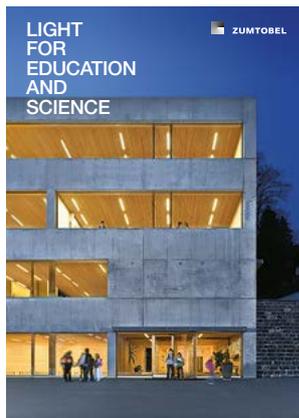


radio modules for
wireless networking

Zumtobel, a company of the Zumtobel Group, is an internationally leading supplier of integral lighting solutions for professional indoor and outdoor building lighting applications.



zumtobel.com/office



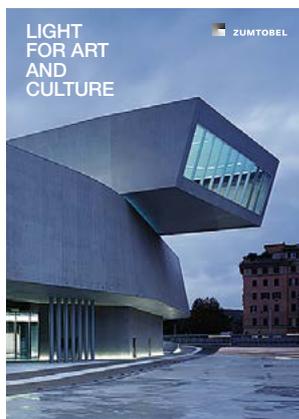
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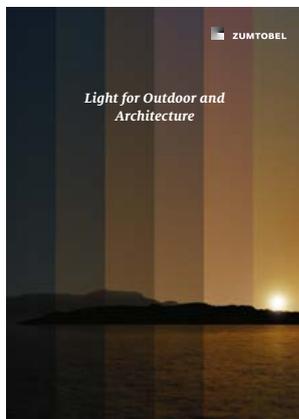
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zumtobel.com/industry



zumtobel.com/outdoor

- **Offices and Communication**
- **Education and Science**
- **Presentation and Retail**
- **Hotel and Wellness**
- **Art and Culture**
- **Health and Care**
- **Industry and Engineering**
- **Outdoor and Architecture**
- **Living**

We provide unique customer benefits by integrating technology, design, emotion and energy efficiency. We combine the best possible ergonomic lighting quality for an individual's well-being with the responsible use of energy resources. The company's own sales organisations in twenty countries, as well as commercial agencies in fifty other countries, form an international network of experts and design partners providing professional lighting consulting, design assistance and comprehensive services.

Lighting and sustainability

In line with our corporate philosophy "We want to use light to create worlds of experience, make work easier and improve communications and safety while remaining fully aware of our responsibility to the environment", Zumtobel offers energy-efficient high-quality products, while at the same time making sure that our production processes based on the considerate use of resources are environmentally compatible.

zumtobel.com/sustainability

5 YEAR GUARANTEE
Top quality – with a five-year guarantee.
 As a globally leading luminaire manufacturer, Zumtobel provides a five year manufacturer's guarantee on all Zumtobel branded products in accordance with the terms of guarantee at zumtobel.com/guarantee.

Order no. 04 998 317-EN 03/18 © Zumtobel Lighting GmbH
 Technical data was correct at time of going to press.
 We reserve the right to make technical changes without notice. Please contact your local sales office for further information.





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Downlights

Australia

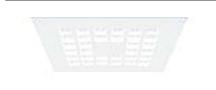
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Surface-mounted and pendant luminaires

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Free-standing and wall-mounted luminaires

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Continuous-row systems and individual batten luminaires

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Luminaires with extra protection



Façade, media and outdoor luminaires



Lighting management systems



Emergency lighting

The Light.