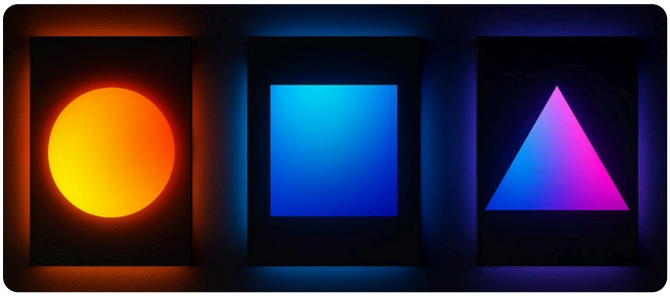
LICHTRAUM LRM

Illuminated or self-luminous – illuminating.



PRODUCT INFORMATION · LED PRODUCTS

LED light panels for elevator cabins

Calm, glare-free light that turns the cabin into a room – with luminous walls, light ceilings and starry skies. Design freedom without limits.






PROJECT IDEA · PANORAMIC ELEVATOR IN A SHOPPING MALL

Riding through the mall under a starry sky.



View from the lobby into the cabin: the glazed rear wall opens up the view into the mall.



Side walls in neutral white



Side walls in warm light

The rear wall is glazed and opens the view across the galleries down into the mall. The two side walls are made of satin white glass, made to glow evenly across the entire surface by LED light panels – the control buttons and floor display sit flush in the glass.

The ceiling becomes a starry sky: a metal ceiling with countless perforations of different sizes is backlit by RGBW light panels. A soft gradient from midnight blue through violet to magenta makes every hole sparkle like a star – the ride becomes an experience.

LED LIGHT PANELS IN ELEVATOR CONSTRUCTION

Why light panels belong in the cabin.

An elevator cabin is a small, enclosed space – often without daylight. How it is lit decides whether passengers feel cramped or comfortable. Flat LED light turns the cabin into a bright, calm and high-quality space.

1 Calm, glare-free light

The evenly luminous surface emits soft light and reduces shadows in the cabin to a minimum. No light points, no flicker – passengers feel comfortable and safe.

2 Low installation depth

Flat modules fit into ceilings and walls where conventional luminaires take up too much space – ideal for tight shaft dimensions.

3 Energy-saving

High luminous efficacy at low power. Compared with halogen or fluorescent lamps, energy demand drops significantly; continuous lighting becomes affordable.

4 Low maintenance

No lamp changes, no starters, no wearing ballasts: a service life of over 50,000 operating hours with more than 70 % residual luminous flux. This saves service calls and downtime.

5 No heat in the cabin

Unlike halogen, hardly any heat is produced. The cabin stays pleasant, and materials and surfaces are protected.

6 Light colour of your choice

Warm white to cool white, optionally infinitely adjustable; coloured light and RGBW with static or dynamic programmes.

7 Emergency and continuous lighting

Depending on the project design and module size, emergency lighting functions and continuous lighting can be integrated.

8 Any size, any output

LED light panels are made to the millimetre – in the Eco, Basic and Power output classes.

Comparison

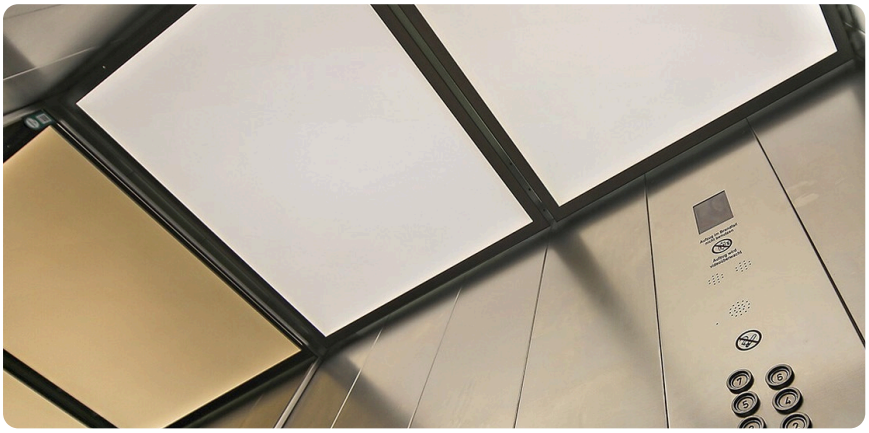
FEATURE	HALOGEN	FLUORESCENT	LED LIGHT PANEL
Light effect	point source, shadows	linear, often flicker	**flat, homogeneous, low-shadow**
Service life (typical)	approx. 2,000–4,000 h	approx. 10,000–20,000 h	**> 50,000 h**
Heat generation	high	medium	**low**
Maintenance	frequent lamp changes	replace tubes and starters	**virtually maintenance-free**
Installation depth	medium	large	**low**
Colour and dynamics	–	–	**adjustable white, RGBW, picture motifs**

Service life figures for halogen and fluorescent are typical guide values and depend on the product and operation.

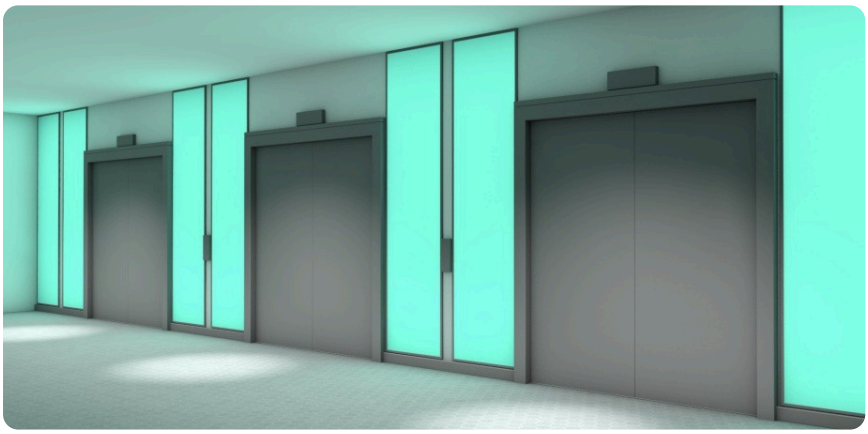
DESIGN FREEDOM

Without limits.

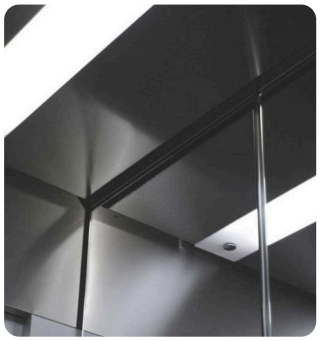
Ceiling, rear wall, side wall or all at once: LED light panels adapt to any cabin geometry. Luminous glass walls, light ceilings, picture motifs, colour gradients or a starry sky – light becomes a design material.















Light ceilings
Large-area, even, divided by slim profiles.

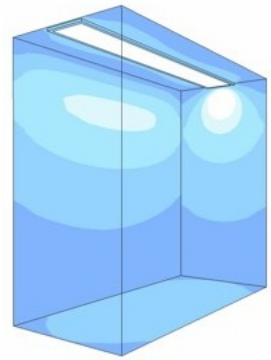
Luminous walls
Glass or acrylic surfaces as a light source – also in corridors and lobbies.

Picture motifs
Calming moods, information or advertising messages.

CABIN LIGHTING · ROUGH CALCULATION

Light from above.





Light distribution

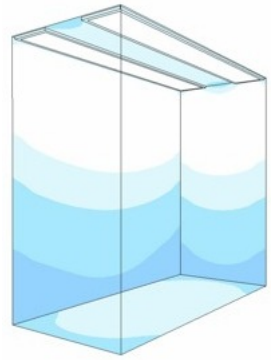
OPTION 1

Central ceiling panel

Elongated ceiling panel, mounted centrally

Cabin L × W	2400 × 1100 mm
Cabin height	2300 mm
LED light panel	1 pcs / 2300 × 330 mm
Type / light colour	BASIC-w · 4000 K
Electrical power	61.2 W
Luminous flux	2100 lm
Illuminance at floor	200 – 300 lx





Light distribution

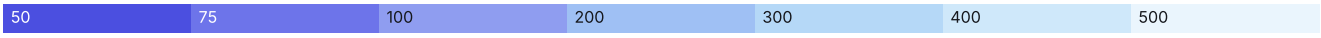
OPTION 2

Lateral ceiling panels

Two elongated ceiling panels, mounted at the sides

Cabin L × W	2400 × 1100 mm
Cabin height	2300 mm
LED light panel	2 pcs / 2300 × 330 mm
Type / light colour	BASIC-w · 4000 K
Electrical power	122.4 W
Luminous flux	4200 lm
Illuminance at floor	400 – 500 lx

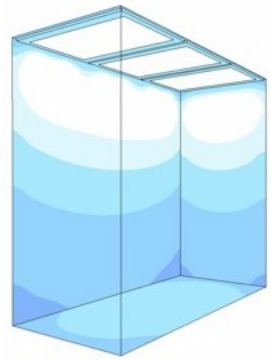
Illuminance in lux (false-colour representation). Rough lighting calculation with standard reflectance values.



CABIN LIGHTING · ROUGH CALCULATION

Ceiling panels or light ceiling.





Light distribution

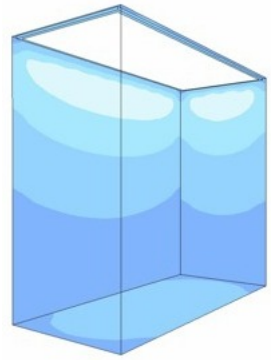
OPTION 3

Three-part ceiling

Three ceiling panels across the cabin

Cabin L × W	2400 × 1100 mm
Cabin height	2300 mm
LED light panel	3 pcs / 1000 × 600 mm
Type / light colour	BASIC-w · 4000 K
Electrical power	78.6 W
Luminous flux	2700 lm
Illuminance at floor	300 – 400 lx





Light distribution

OPTION 4

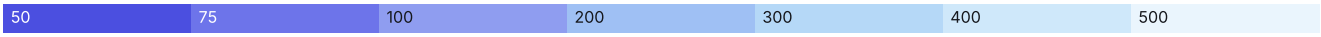
Light ceiling

The entire cabin ceiling glows

Cabin L × W	2400 × 1100 mm
Cabin height	2300 mm
LED light panel	1 pcs / 2300 × 1000 mm
Type / light colour	BASIC-w · 4000 K
Electrical power	61.2 W
Luminous flux	2200 lm
Illuminance at floor	200 – 300 lx

Light ceilings may require central fixings.

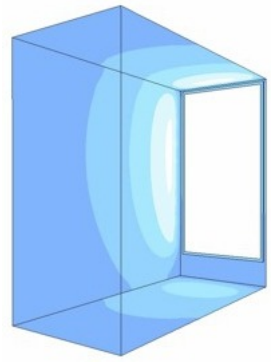
Illuminance in lux (false-colour representation). Rough lighting calculation with standard reflectance values.



CABIN LIGHTING · ROUGH CALCULATION

Walls that glow.





Light distribution

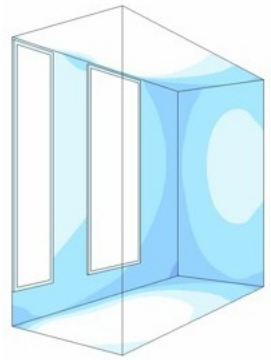
OPTION 5

Rear light wall

The cabin rear wall as a light wall

Cabin L × W	2400 × 1100 mm
Cabin height	2300 mm
LED light panel	1 pcs / 2000 × 1000 mm
Type / light colour	BASIC-w · 4000 K
Electrical power	52.4 W
Luminous flux	1900 lm
Illuminance at floor	150 – 300 lx





Light distribution

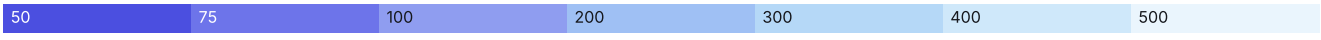
OPTION 6

Side light walls

Side walls as light walls

Cabin L × W	2400 × 1100 mm
Cabin height	2300 mm
LED light panel	2 pcs / 2300 × 800 / 400 mm
Type / light colour	BASIC-w · 4000 K
Electrical power	104.8 W
Luminous flux	3700 lm
Illuminance at floor	200 – 300 lx

Illuminance in lux (false-colour representation). Rough lighting calculation with standard reflectance values.



COLOUR, MOVEMENT, PICTURE MOTIFS

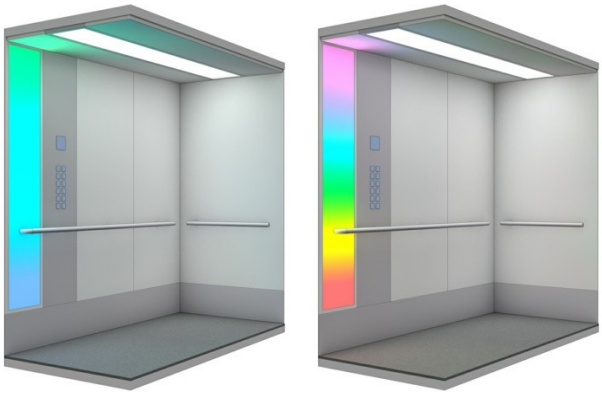
The ride as an experience.

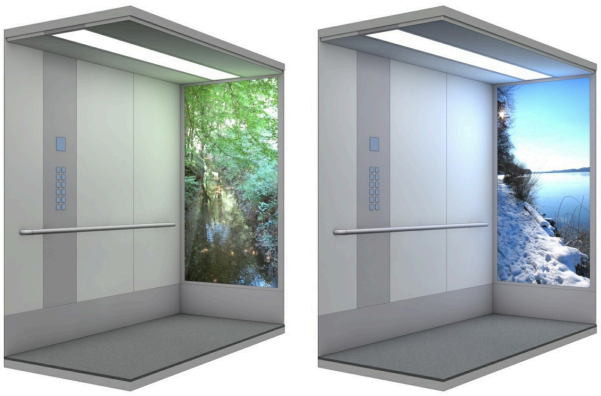
LED LIGHT PANEL RGB DYNAMIC

Side walls that ride along

Chasing light in the colours of your choice, synchronised with the direction of travel: when the cabin moves up, the blending colours in the light panel also move up – when it moves down, they move down.

This makes movement visible without glare – a calm, impressive play of light.





LED LIGHT PANEL BASIC-W WITH PICTURE MOTIF

Light wall with a view

Backlit picture motifs open up the enclosed cabin: forest, lake or sky create a calming mood. Information or advertising messages can also be shown as a light display – and changed at any time.

Plus an elongated ceiling panel, mounted centrally, as general lighting.

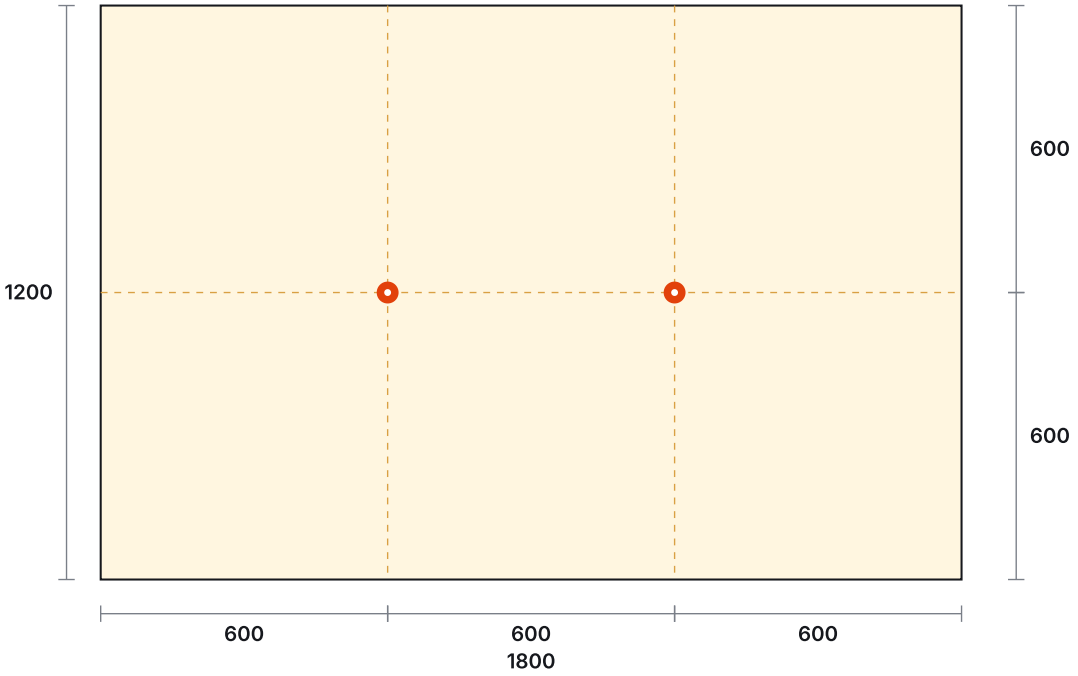
> Light turns a cabin into a place where people enjoy arriving.

CEILING INSTALLATION · GUIDELINES

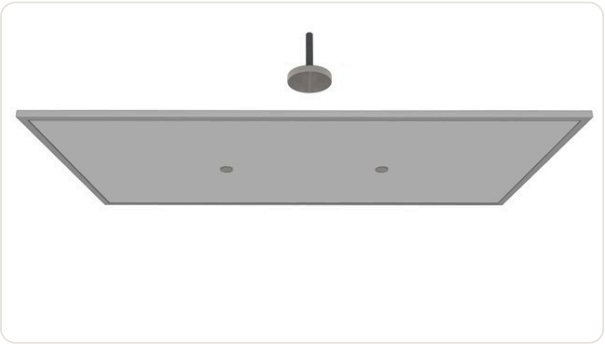
Securely suspended.

Up to a size of 600 × 600 mm, an LED light panel in the ceiling does not need additional support. Larger modules are additionally fixed in a grid of approx. 600 mm.

Example: light ceiling 1800 × 1200 mm



- Support point (central fixing)
- LED light panel, grid 600 mm



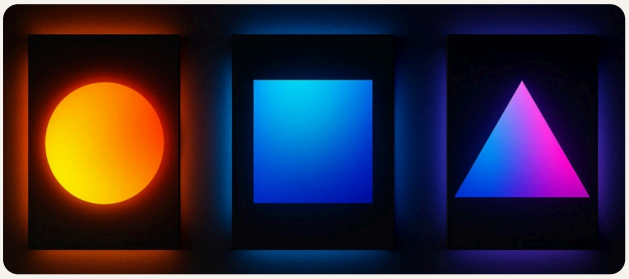
Fixing example

M8 threaded bolt with 50 × 8 mm plate, with an internal thread above (e.g. sleeve).

> Fixing is agreed with the cabin manufacturer for each project. On request we supply the matching fixing parts.

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Planning a cabin? We calculate the lighting and make the modules to measure.