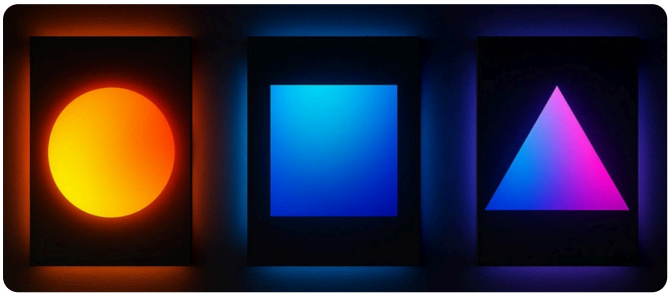
LICHTRAUM LRM

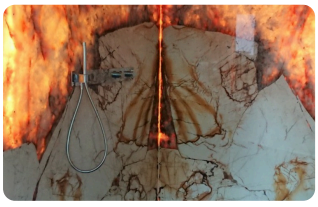
Illuminated or self-luminous – illuminating.



PRODUCT CATALOGUE · LED PRODUCTS

LED Panel Light Catalogue 2026

Innovation in flat LED configuration – made-to-measure light surfaces from 6 to 13 mm deep, in white, tunable white and colour.









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What you will find in this catalogue.

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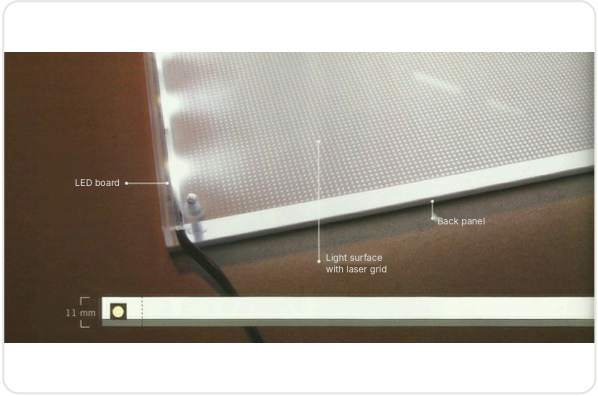


CONSTRUCTION

Light that comes in from the edge.

The LED panel light is a recessed or surface-mounted luminaire made of a dual-sheet system. LEDs feed their light into the edge of a light-guiding acrylic sheet; a laser grid directs it evenly forward.

Depending on the configuration, it can backlight images, make furniture and objects glow or – built into ceilings, walls and floors – create genuine spaces of light.



Size and light feed

You define the size – individually and project by project. The size of the light surface determines whether the light is fed from one side or from two opposite sides.

MAX. WIDTH	MAX. HEIGHT*
3,040 mm	1,800 mm

* Height between the LED sides, depending on version (see page 06).

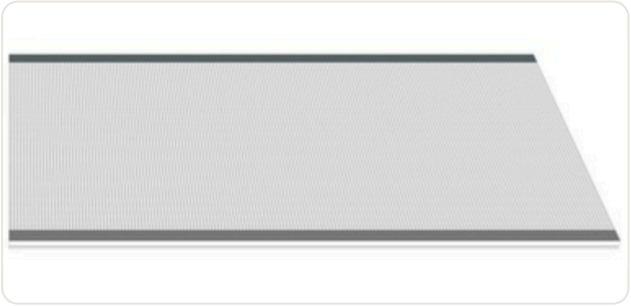


Hotspot edge cover

As the light is fed in through the edges, the edge zones along the LED sides must be covered light-tight – for example with black fabric tape or on site with frames and profiles.

- **20 mm** for BASIC, POWER, RGB, RGB-w and RGBW Dynamic
- **10 mm** for FINE 7 and FINE-S 6

With single-sided feed one side is covered, with double-sided feed both opposite sides.

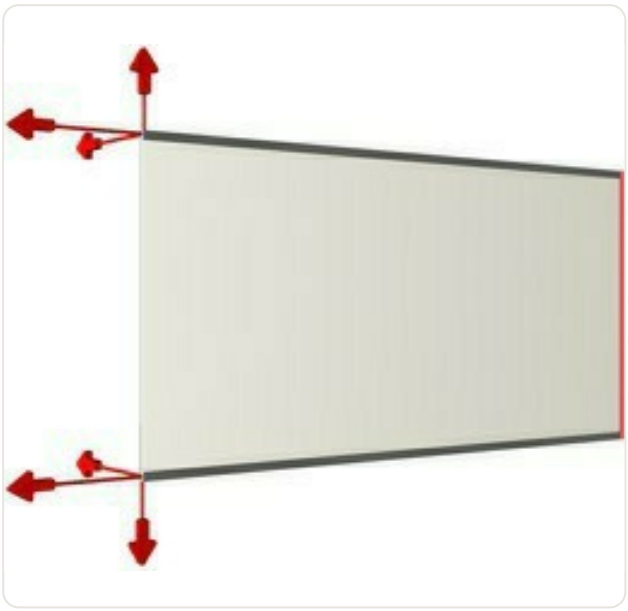


SUPPLY CABLE AND CONNECTION

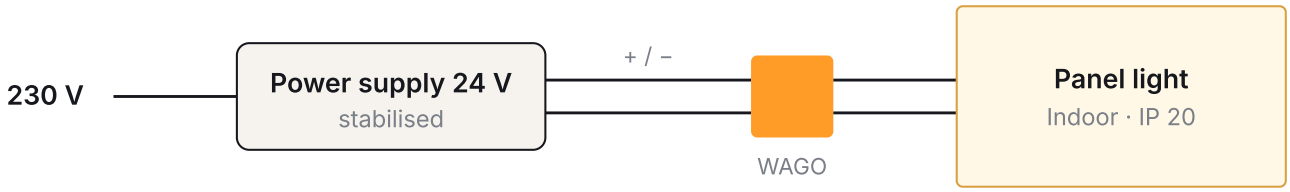
Connected at the side or at the back.

Every panel light needs a supply cable, which can exit at the side or at the back. With double-sided feed, both sides can be linked by a cable running in a milled groove on the back.



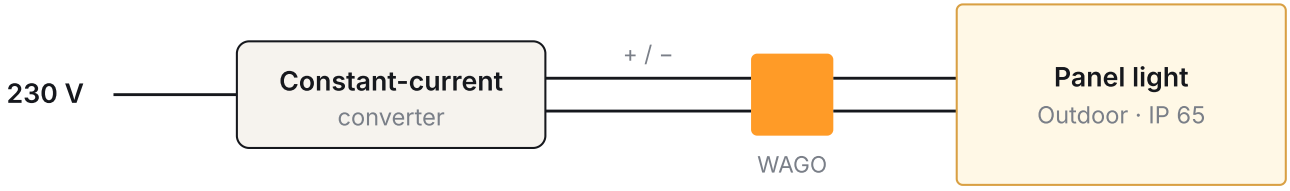


Wiring diagram, indoor



All indoor versions run on 24 V with a power supply providing a stabilised output voltage (BASIC, FINE, POWER, RGB, RGB-w, RGBW Dynamic).

Wiring diagram, outdoor



BASIC-w Outdoor (IP 65): LEDs sealed in heat-shrink tubing, operated exclusively with suitable constant-current converters.

Caution: observe the maximum output power of the power supply. The panel light's power rating is shown on the type plate on the back.

STANDARD EQUIPMENT

Laser grid plus diffuser front.

A — **LED panel light**

For optimum light output, the light-guide sheet carries a laser grid. It directs the edge-fed light forward and makes the entire surface glow.

B — **Diffuser front · optional**

An opal 3 mm acrylic sheet with a special coating covers the grid. On request it is screwed to the panel light, giving a particularly intense and even impression of brightness and colour.

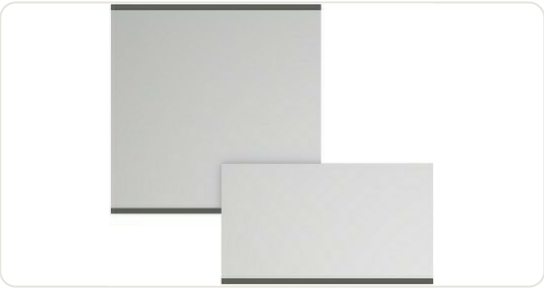
A+B — **Result**

The module appears to glow uniformly.



Alternative: Optiwhite low-iron glass

Instead of an acrylic front cover, Optiwhite low-iron glass from 4 mm thickness can be used. It should have a translucent coating on the back – screen-printed or foil, in white or the desired colour. Note: glass is not included in the delivery.



DIMENSIONS TO CUSTOMER SPECIFICATION

All versions at a glance.

LED panel lights are made exclusively to customer specification – accurate to the millimetre between the smallest and largest size. Maximum height means the distance between the two LED sides.

VERSION	DEPTH MM	LED PITCH MM	POWER PER LED SIDE	LIGHT COLOUR	MIN. MM	MAX. W × H MM · AREA	RATING
BASIC-w	11 ± 1.5	15	11.4 W/m	White 2700–6500 K	150 × 30	3,040 × 1,800 · 4.5 m²	IP 20
BASIC-w Outdoor	11 ± 1.5	15	9.9 W/m	White 2700–6500 K	60 × 30	3,040 × 1,800 · 4.5 m²	IP 65
FINE 7	7 ± 1.1	8	9.4 W/m	White 2700–6500 K	70 × 30	3,040 × 1,500 · 2.5 m²	IP 20
FINE-S 6	6 ± 0.4	8	9.4 W/m	White 2700–6500 K	70 × 30	3,040 × 1,500 · 2.5 m²	IP 20
POWER-w	13 ± 1.2	10	26.4 W/m	White 2700–6500 K	80 × 30	3,040 × 1,800 · 3.0 m²	IP 20
BASIC-ww	11	2 × 15	21.5 W/m²*	Tunable white 2700–6500 K	–	3,000 × 1,500*	indoor
RGB	11 ± 1.5	15	13.7 W/m	RGB	105 × 30	3,040 × 1,800 · 4.5 m²	IP 20
RGB-w	11 ± 1.1	2 × 15	18.3 W/m	RGB + white	105 × 30	3,040 × 1,800 · 4.5 m²	IP 20
RGBW Dynamic	11 ± 1.5	15	14.9 W/m	RGB + 4000 K, dynamic	120 × 30	3,040 × 1,800 · 4.5 m²	IP 20
FRAMELESS	21 ± 2.0	12	13.2 W/m (12 V)	White 2700–6500 K	150 × 150	3,040 × 1,000 · 2.0 m²	IP 50

* BASIC-ww: power per m², maximum size as specified by LichtRauM. For FRAMELESS see separate product information.

Small panel lights and single-sided feed

Very small formats are possible – from 60 × 30 mm depending on the version. For small sizes, single-sided feed is sufficient. The upper limit for single-sided feed is 500 mm height for FINE and 750 mm for all other versions.

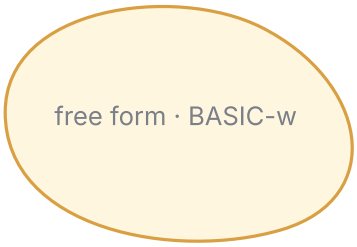
SINGLE-SIDED · FINE	SINGLE-SIDED · OTHERS
up to 500 mm	**up to 750 mm**

SPECIAL SHAPES AND MACHINING

Almost any shape is possible.

Special shapes

Round, oval or free-form shapes are made individually as LED panel lights. We will gladly check in advance whether your desired shape is feasible – just ask. Special shapes are available in the BASIC-w version.



Double-sided light emission

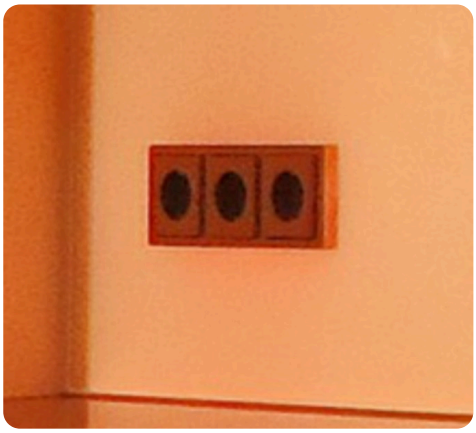
Signposts and pictograms, for example at airports, often shine both forwards and backwards. For such cases the panel light is supplied without a back panel.



Feed-throughs, openings, cut-outs

Holes for screw fixings, cut-outs for switches or notches in the edge can be machined in many ways.

> With socket or switch cut-outs, the panel light should be fed from two sides to avoid shadows.



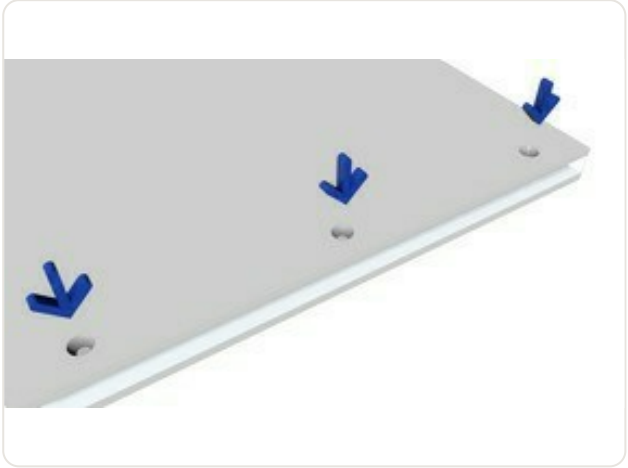
INSTALLATION

Wall mounting and ceiling installation.

Wall mounting

Fixing is via 4 mm countersunk holes in the edge zone. Because of the LED position at the edge, the exact hole spacing is set during production; you can specify the desired spacing.

HOLE	GUIDE SPACING
4 mm, countersunk	300–400 mm



Ceiling installation – guidelines

Up to 600 × 600 mm the panel light needs no additional support. Larger formats must be suspended on a grid of approx. 600 mm so they do not sag – for example with an M8 threaded bolt and 50 × 8 mm plate, with an internal thread above (e.g. a sleeve).

> Example: format 1,800 × 1,200 mm, suspension points on a 600 × 600 mm grid.



WHITE LIGHT COLOUR

Colour temperature sets the mood.

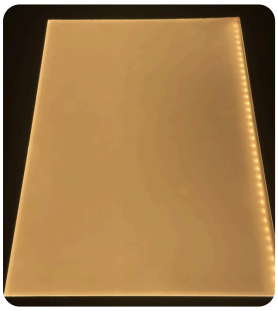
LED panel lights are made in the colour temperature you choose. It is stated in kelvin and describes the light colour of the module.

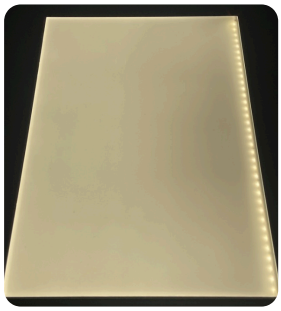
2700 K | 3000 K | 4000 K | 5000 K | 6500 K

Warm white — **2700–3000 K**
Cosy, yellowish light – for living spaces, hotels and decorative applications.

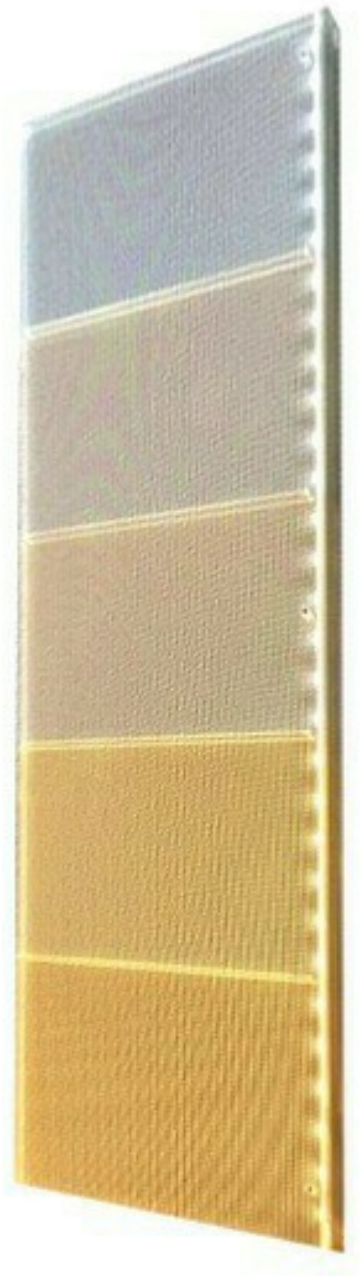
Neutral white — **4000 K**
Clear, matter-of-fact white – for offices, kitchens and exhibition areas.

Daylight white — **5000–6500 K**
Cool, activating light – for technical areas, workshops and display surfaces.


2700 K


4000 K

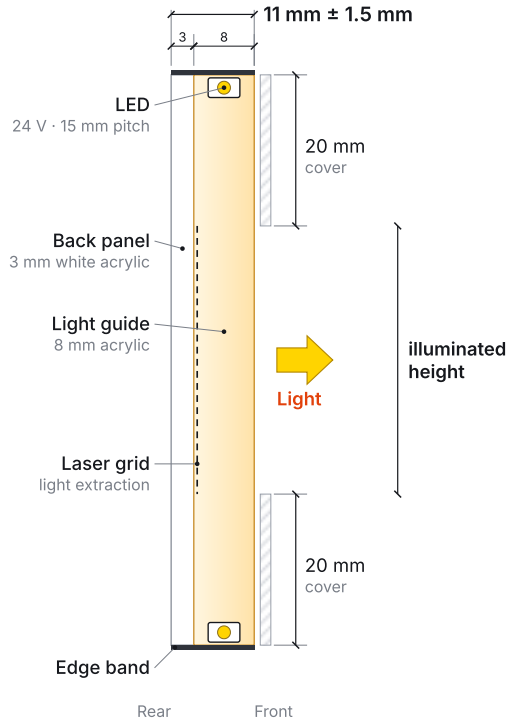

5000 K



WHITE LIGHT · SINGLE COLOUR

BASIC-w 24 V

Our proven standard panel light: the all-rounder for shopfitting, furniture and architectural light ceilings. With 11 mm depth and precise made-to-measure production it glows evenly and without shadows. Also available as an outdoor version with IP 65.



Section at 1:1 scale (depth), height shortened.

Light colour

2700 K · 3000 K · 4000 K · 5000 K · 6500 K

Luminance

1-SIDED · 200	1-SIDED · 400
1,100 cd/m²	650 cd/m²
2-SIDED · 500	**2-SIDED · 1,200**
950 cd/m²	450 cd/m²

Per illuminated height in mm, at +25 °C (indoor and outdoor).

INDOOR · STANDARD	
Operating voltage	24 V, parallel circuit
Power	11.4 W/m per LED side
LED pitch / arrangement	15 mm · one, two or four sides
Colour temperatures	2700, 3000, 4000, 5000, 6500 K
Depth	11 mm (± 1.5 mm) · 8 mm light guide + 3 mm back panel
Weight	13.1 kg/m²
Min. size	150 × 30 mm
Max. width / height	3,040 / 1,800 mm (height between the LEDs)
Max. area	4.5 m²
Protection rating / class	IP 20 / III
Ambient temperature	+5 °C to +50 °C
Lumen maintenance	> 70 % after 50,000 h
Edge cover	20 mm per LED side

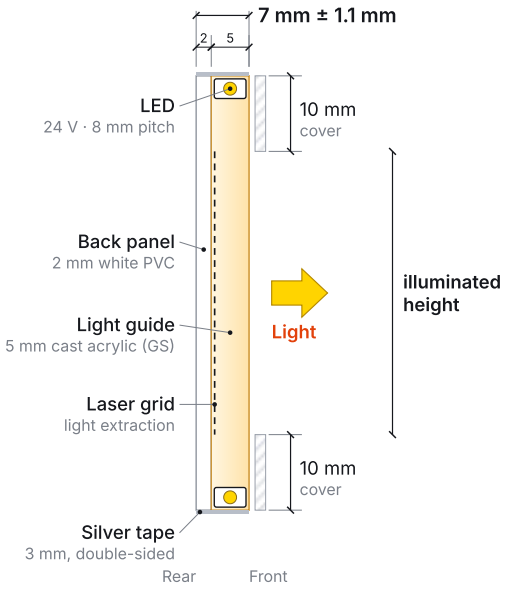
OUTDOOR · IP 65	
Operation	constant current 100 mA, constant-current converter
Power	9.9 W/m per LED side
Protection rating / class	IP 65 / II · LEDs in heat-shrink tubing
Ambient temperature	−25 °C to +65 °C
Min. size	60 × 30 mm

WHITE LIGHT · SINGLE COLOUR · NEW

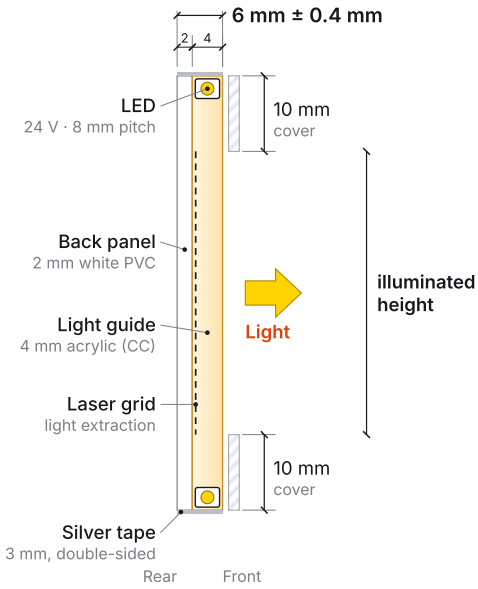
FINE 7 and FINE-S 6 · 24 V

The new FINE generation replaces the previous 8 mm FINE-w: only 7 or 6 mm deep, 8 mm LED pitch and 162 lm/W. Ideal wherever minimal installation depth is required – in furniture, wall panelling, yacht and ship building or lightweight light ceilings.

FINE 7



FINE-S 6



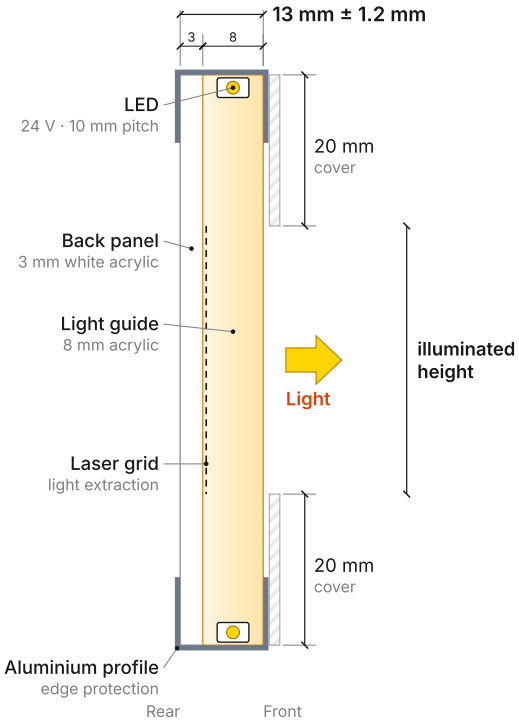
VERSION	FINE 7	FINE-S 6
Depth	7 mm (5 + 2) ± 1.1 mm	6 mm (4 + 2) ± 0.4 mm
Light guide / weight	5 mm cast acrylic (GS) · 8.4 kg/m²	4 mm acrylic (CC) · 7.2 kg/m²
Voltage / power	24 V · 9.4 W/m per LED side · 162 lm/W · CRI > 90	
LED pitch / colour temperatures	8 mm · 2700, 3000, 4000, 5000, 6500 K	
Dimensions	min. 70 × 30 mm · max. 3,040 × 1,500 mm · max. 2.5 m²	
Use	IP 20 / III · +5 °C to +50 °C · edge cover 10 mm	
Luminance	1-sided 1,100 / 650 cd/m² (200 / 400 mm) · 2-sided 950 / 450 cd/m² (500 / 1,000 mm)	

Full details: product information “LED Panel Light FINE 2026”.

WHITE LIGHT · SINGLE COLOUR

POWER-w 24 V

The version with significantly more power: high light output with uniform illumination and a flat design. POWER-w is suited as a luminaire for lighting tasks in architecture and interior design – for light ceilings and large-area backlighting.



Section at 1:1 scale (depth), height shortened.

Light colour

2700 K | 3000 K | 4000 K | 5000 K | 6500 K

Operating voltage	24 V, parallel circuit
Power	26.4 W/m per LED side
LED pitch / arrangement	10 mm · one or two sides
Colour temperatures	2700, 3000, 4000, 5000, 6500 K
Depth	13 mm (± 1.2 mm) · 8 mm light guide + 3 mm back panel, aluminium profile
Weight	14 kg/m²
Min. size	80 × 30 mm
Max. width / height	3,040 / 1,800 mm (height between the LEDs)
Max. area	3.0 m²
Protection rating / class	IP 20 / III – indoor
Ambient temperature	+5 °C to +50 °C
Lumen maintenance	> 70 % after 50,000 h
Edge cover	20 mm per LED side
Material	cast PMMA · dielectric strength 30 kV/mm · B2 · HB (UL 94)

Luminance

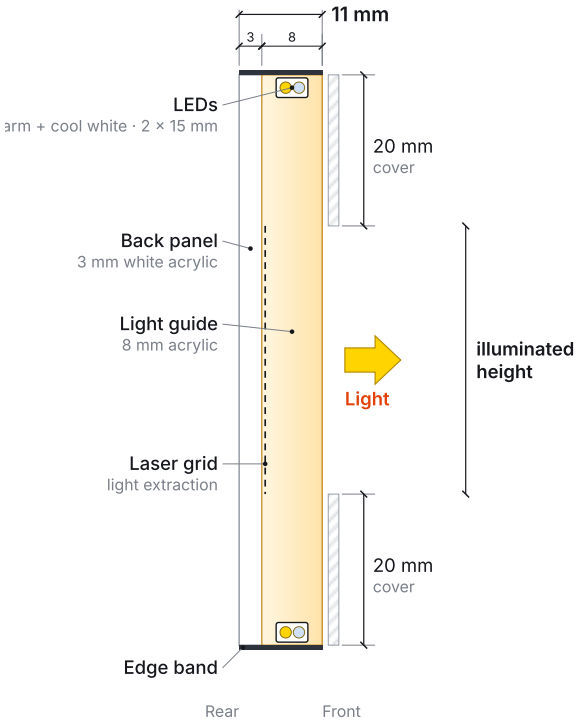
HEIGHT 500 MM	HEIGHT 1,200 MM
2,200 cd/m²	1,050 cd/m²

At +25 °C.

WHITE LIGHT · DUAL COLOUR

BASIC-ww · tunable white

Infinitely adjustable from 2700 K to 6500 K: the light colour is not fixed but freely selectable across the entire daylight spectrum. An intelligent controller mixes any desired light colour, stores it and recalls it at the touch of a button.



Section at 1:1 scale (depth), height shortened.

LED pitch / arrangement	2 × 15 mm · one, two or four sides
Luminous flux	1,200 lm/m² (double-sided feed)
Luminance	470 cd/m²
Power	21.5 W/m²
Light colour	2700 K to 6500 K, infinitely variable
Max. width / height	3,000 / 1,500 mm
Depth	11 mm · 8 mm light guide + 3 mm back panel
Weight	15.4 kg/m²
Use	indoor

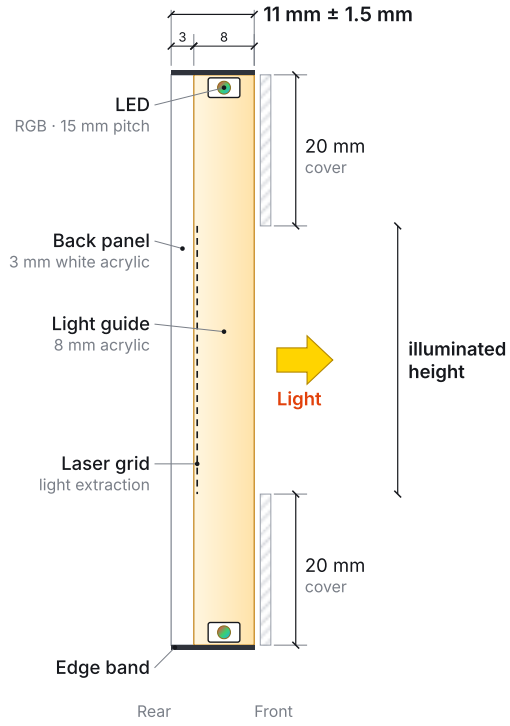
Light colour

2700 K — infinitely adjustable — 6500 K

COLOUR · RGB STATIC

RGB static 24 V

RGB stands for the three primary colours red, green and blue. An intelligent controller mixes them into any other light colour as a solid colour – ideal when a specific colour is to be set precisely and shine permanently.



Section at 1:1 scale (depth), height shortened.

Light colour



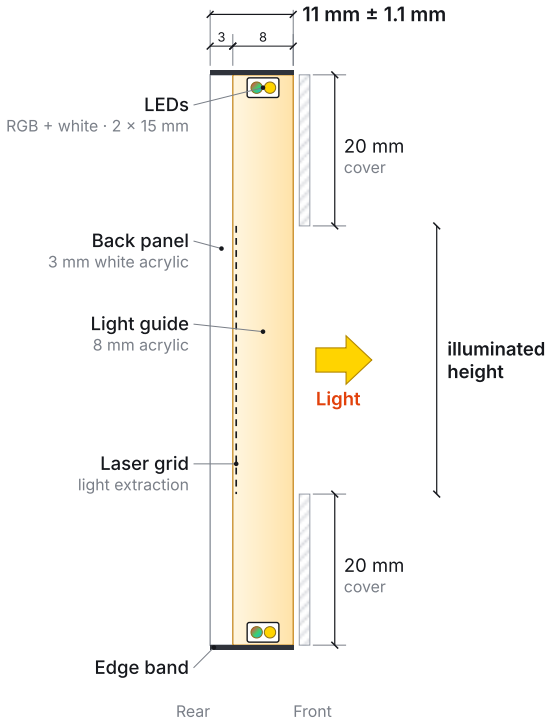
Solid colours mixed from red, green and blue

Operating voltage	24 V, parallel circuit
Power	13.7 W/m per LED side
LED pitch / arrangement	15 mm · one, two or four sides
Light colours	red, green, blue and mixed colours
Control	radio remote control or slave module · board with 7 LEDs in series
Depth	11 mm (± 1.5 mm) · 8 mm light guide + 3 mm back panel
Weight	13 kg/m²
Min. size	105 × 30 mm
Max. width / height	3,040 / 1,800 mm
Max. area	4.5 m²
Protection rating / class	IP 20 / III – indoor
Ambient temperature	+5 °C to +50 °C
Lumen maintenance	> 70 % after 50,000 h
Edge cover	20 mm per LED side

COLOUR · RGB-W STATIC

RGB-w static 24 V

Unlike RGB, RGB-w panel lights also have white LEDs that can be blended into the colours. Besides the full RGB spectrum, this also creates pastel shades such as sky blue or soft pink.



Section at 1:1 scale (depth), height shortened.

Light colour



Solid colours

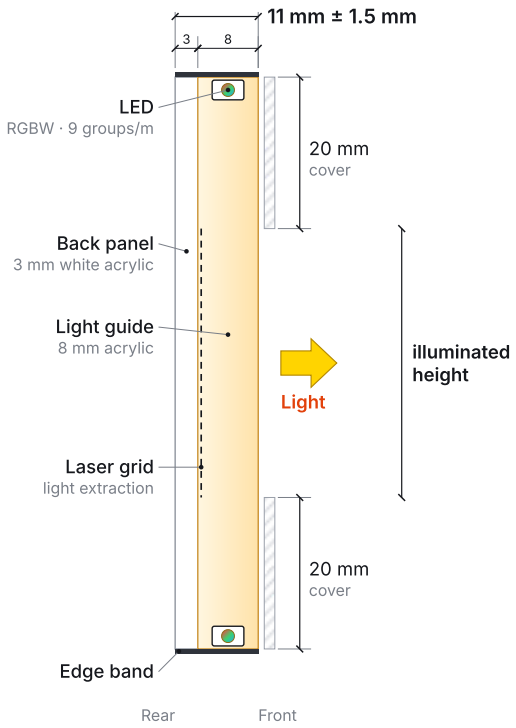
Pastel shades mixed from white and solid colour

Operating voltage	24 V, parallel circuit
Power	18.3 W/m per LED side
LED pitch / arrangement	2 × 15 mm · one, two or four sides
Light colours	red, green, blue + white, selectable: 2700, 3000, 4000, 5000 or 6500 K
Control	radio remote control or slave module · board 2 × 7 LEDs in series
Depth	11 mm (± 1.1 mm) · 8 mm light guide + 3 mm back panel
Weight	13.1 kg/m²
Min. size	105 × 30 mm
Max. width / height	3,040 / 1,800 mm
Max. area	4.5 m²
Protection rating / class	IP 20 / III – indoor
Ambient temperature	+5 °C to +50 °C
Lumen maintenance	> 70 % after 50,000 h
Edge cover	20 mm per LED side

COLOUR · RGBW DYNAMIC

RGBW Dynamic 24 V

For colour gradients within the illuminated surface: the RGBW Dynamic version controls up to 9 groups per metre individually. Any number of colours can be combined and moved across the surface as a gradient – including pastel shades. Ideal for entrances, lifts, stairwells, restaurants, trade-fair stands and backlit stretch ceilings.



Section at 1:1 scale (depth), height shortened.

Light colour



Dynamic colour gradients, RGB + white 4000 K

Operating voltage	24 V, parallel circuit
Power	14.9 W/m per LED side
LED pitch	15 mm · one or two sides
LED colours	red, green, blue + white 4000 K
Controllable groups	9 per metre (7 LEDs each)
Control	dynamic controller, slave module and 24 V power supply external · CAT 5 data cable
Depth	11 mm (± 1.5 mm) · 8 mm light guide + 3 mm back panel
Weight	13.1 kg/m²
Min. size	120 × 30 mm
Max. width / height	3,040 / 1,800 mm
Max. area	4.5 m²
Protection rating / class	IP 20 / III – indoor · UV-resistant
Ambient temperature	+5 °C to +50 °C
Edge cover	20 mm per LED side

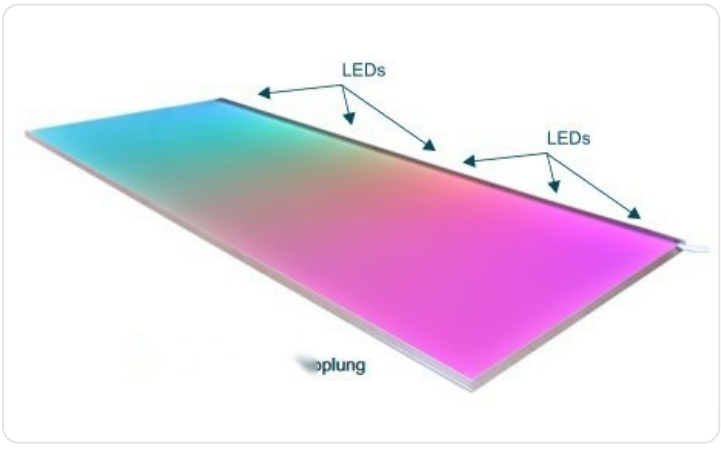
RGBW DYNAMIC

Colour in motion.









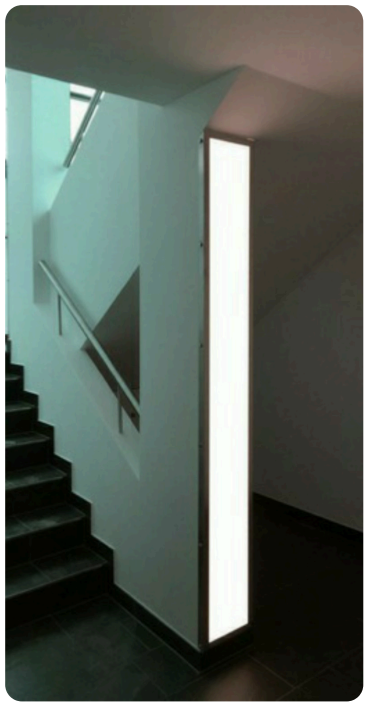
Colour gradient with single-sided light feed

The individually controllable LED groups create soft transitions across the entire surface.

APPLICATION EXAMPLES

Stairwell and art in architecture.







Stairwell
Lighting with BASIC panel light modules, set flush with the columns in stainless-steel frames.





Raiffeisenbank · art in architecture / Julius Bär Bank, Switzerland
BASIC modules behind coated acrylic; light screen made of 60 × 80 cm modules, total height 250 cm.

APPLICATION EXAMPLES

Light wall and kitchen splashback.



Fitness centre

BASIC panel light modules as a light wall.









RGB kitchen splashback

Panel light modules behind white stove-enamelled front glass – in any colour you like.

APPLICATION EXAMPLES

Airport, bathroom and museum.





Munich Airport · Lufthansa Pillbox

BASIC panel light modules in stainless-steel frames, front of opal acrylic.





Bathroom design / Deutsches Museum Munich

BASIC module in furniture; lighting of a display case.

APPLICATION EXAMPLES

Kitchen and private home.



RGB dynamic · kitchen splashback
RGB panel light module with dynamic light control behind white stove-enamelled toughened glass.





Bedroom furniture in a private home
RGB panel light modules, static, behind opal glass.

APPLICATION EXAMPLES

Office and hotel.





Office meeting room

BASIC-w in a special version with decorative Alunox frame. Without side covers, a fine aura of light appears on the ceiling.



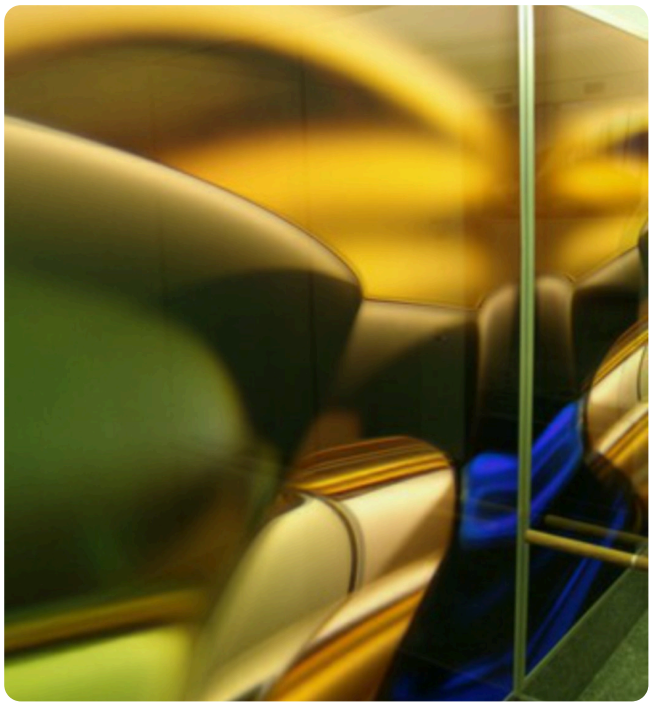
Hotel room

RGB panel light modules behind an onyx stone slab.

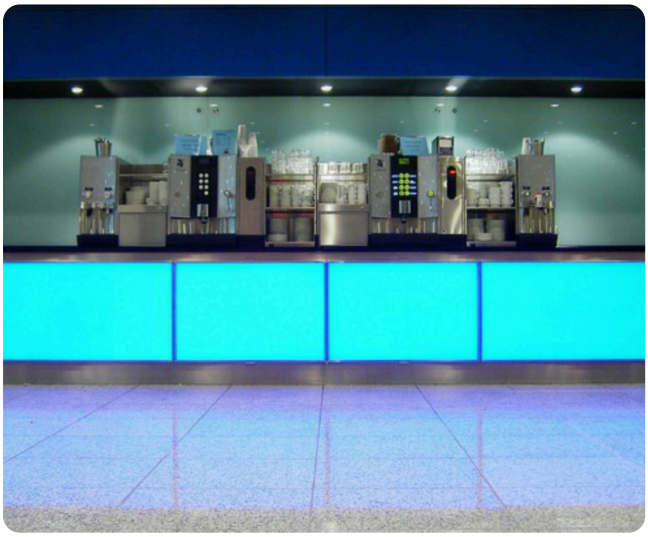
APPLICATION EXAMPLES

Lift and canteen.





DEKA Holding, Skyper building · art project by Hans Kotter
Lift lighting: the artist's motifs printed on glass, backlit with LED panel light.

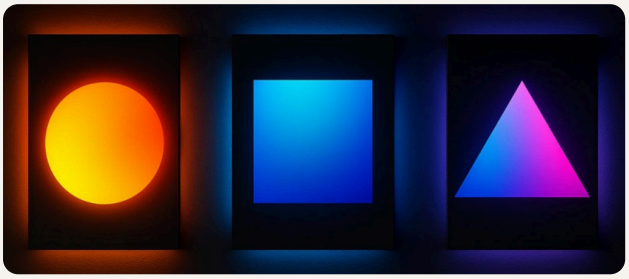




Generali insurance · canteen
Counter fronts with LED panel light.

LICHTRAUM LRM

Illuminated or self-luminous – illuminating.



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