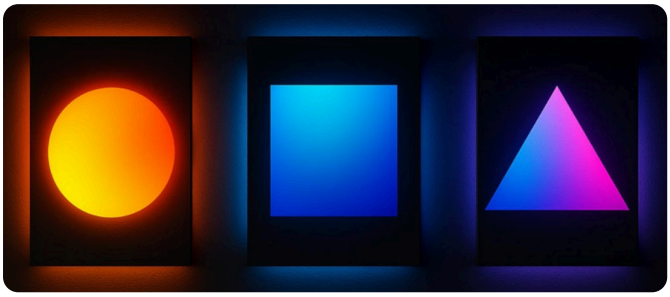
LICHTRAUM LRM

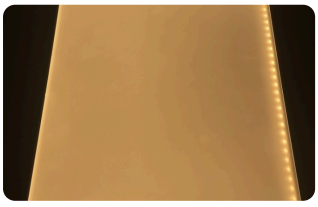
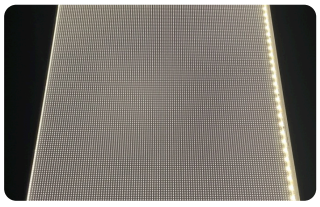
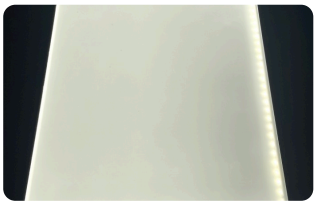
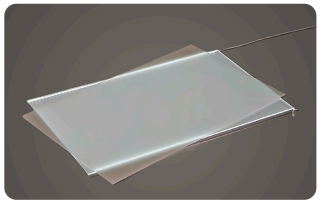
Illuminated or self-luminous – illuminating.



PRODUCT INFORMATION · LED PRODUCTS

LED Panel Light
FINE

The FINE series 24 V – innovation in flat LED configuration, now only 7 mm and 6 mm deep.

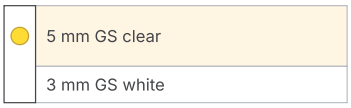
THE FINE SERIES

Flatter, more efficient, more precise.

The optimised design makes the FINE panel light even flatter: 7 mm in the FINE 7 version and 6 mm in the FINE-S 6 version. The tighter LED pitch of 8 mm and the higher luminous efficacy make the new generation around 17 % more efficient than the previous design.

DISCONTINUED 03/2026

FINE 8

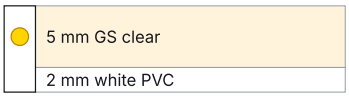


8 mm

Depth	8 mm
LED pitch	15 mm
Power	11.4 W/m
Efficacy	138 lm/W

NEW

FINE 7

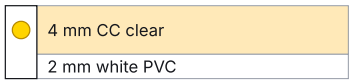


7 mm

Depth	7 mm ± 1.1
LED pitch	8 mm
Power	9.4 W/m
Efficacy	162 lm/W

NEW

FINE-S 6



6 mm

Depth	6 mm ± 0.4
LED pitch	8 mm
Power	9.4 W/m
Efficacy	162 lm/W

Power per metre of LED side. Board with 7 LEDs connected in series at 24 V.

Colour temperatures and their effect



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

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

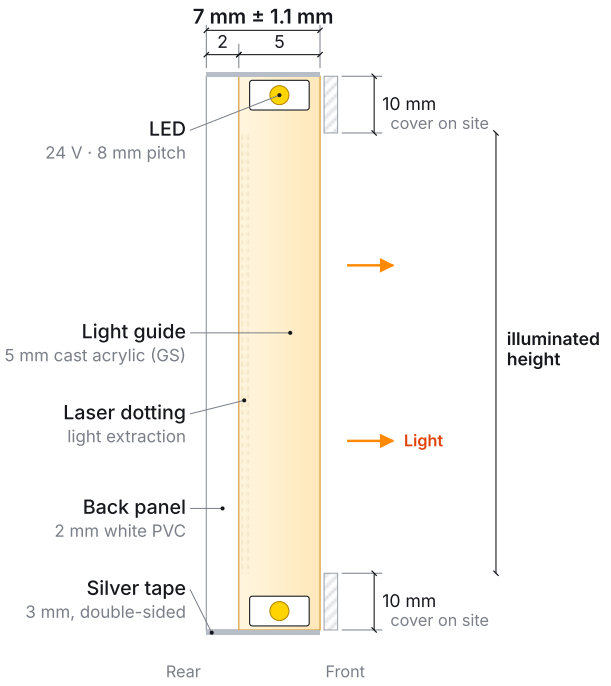
Daylight white — **5000–6500 K**
Cool, activating light – for technical applications, workshops and display surfaces.

CONSTRUCTION

Two depths, one principle.

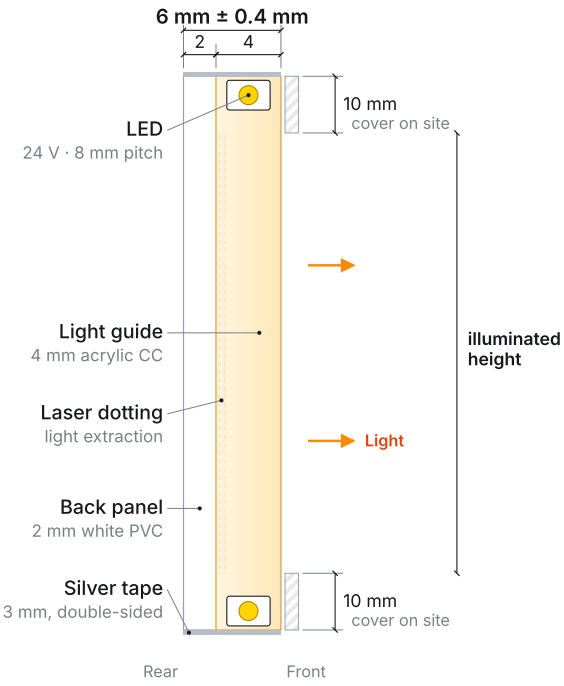
The LEDs feed their light into the edge of an acrylic sheet. A precise laser grid (laser dotting) directs it evenly forward across the entire surface, while a white back panel reflects it. The 10 mm edge zone along the LED sides must be covered on site.

FINE 7

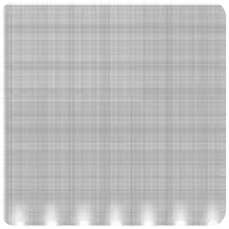


Light guide 5 mm cast acrylic (GS). Depth 7 mm ± 1.1 mm.

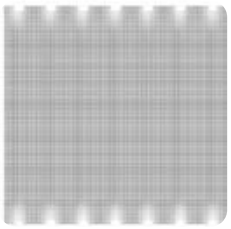
FINE-S 6



Light guide 4 mm continuous-cast acrylic (CC) with particularly tight thickness tolerance. Depth 6 mm ± 0.4 mm.



single-sided feed



double-sided feed

The LEDs can be arranged on one, two or four sides. Sections are schematic; layer thicknesses to scale, height shortened.

TECHNICAL DATA

FINE 7 and FINE-S 6 compared.

VERSION	FL-FINE-7 MM 24 V	FL-FINE-S-6 MM 24 V
Depth (thickness)	7 mm (5 + 2) ± 1.1 mm	6 mm (4 + 2) ± 0.4 mm
Light guide	5 mm cast acrylic (GS)	4 mm acrylic (CC)
Weight	8.4 kg/m²	7.2 kg/m²
ELECTRICAL AND LIGHTING – BOTH VERSIONS		
Operating voltage	24 V, parallel circuit · board with 7 LEDs in series	
Power	9.4 W/m per LED side · approx. 18.8 W/m² with double-sided feed and 1 m height	
LED pitch / arrangement	8 mm · one, two or four sides	
Efficacy / luminous flux	162 lm/W · 1,400 lm (double-sided feed)	
Colour rendering	CRI > 90	
Colour temperatures	2700 K, 3000 K, 4000 K, 5000 K, 6500 K	
Lumen maintenance	> 70 % after 50,000 operating hours	
DIMENSIONS AND USE		
Minimum size	70 × 30 mm	
Maximum width / height	3,040 mm / 1,500 mm (height between the LEDs)	
Maximum area	2.5 m²	
Edge zone	cover 10 mm along the LED sides on site	
Protection rating / class	IP 20 / III – indoor use only	
Ambient temperature	+5 °C to +50 °C	
Conformity	CE, RoHS	
MATERIAL		
Material	PMMA (acrylic), cast · back panel 2 mm white PVC	
Linear expansion	0.07 mm/(m·K) (DIN 53752-A)	
Fire behaviour / flammability	Building material class B2 (DIN 4102) · HB (UL 94)	

Surface luminance

1-SIDED · 200 MM	1-SIDED · 400 MM	2-SIDED · 500 MM	2-SIDED · 1,000 MM
1,100 cd/m²	650 cd/m²	950 cd/m²	450 cd/m²

Values per illuminated height. All data at an ambient temperature of +25 °C.

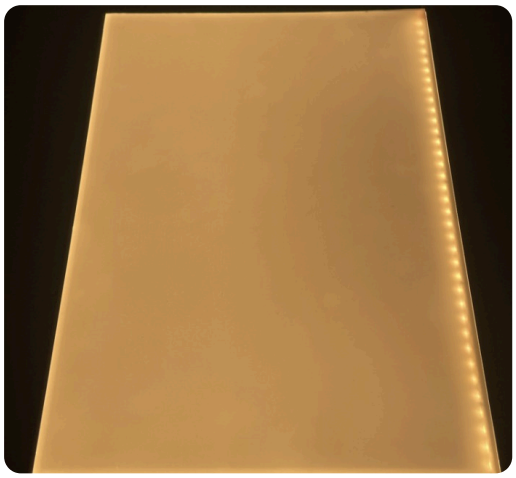
COLOUR TEMPERATURE EXAMPLES

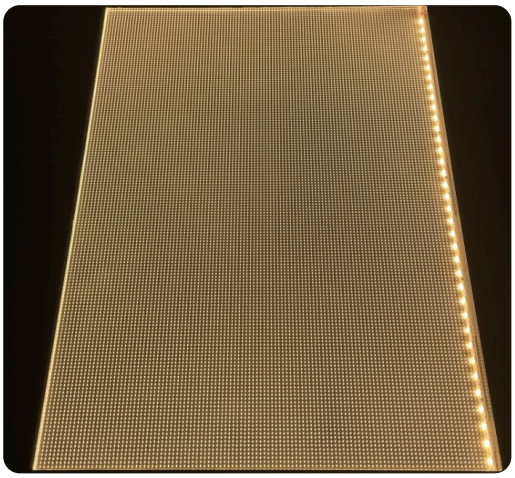
With and without opal front.

Left with an opal front sheet, right without – the laser grid then remains visible as a fine dot pattern. Applies to FINE 7 and FINE-S 6.

2700 K

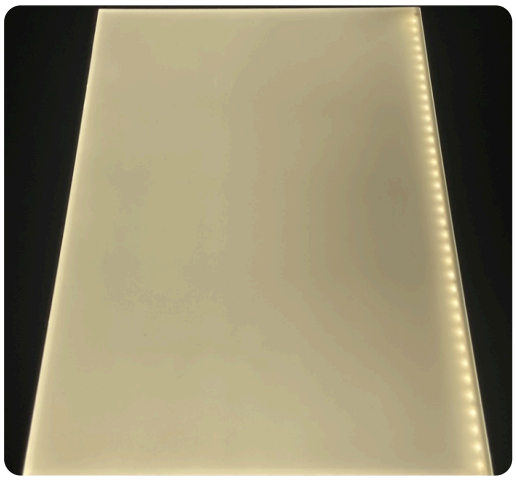
Warm white

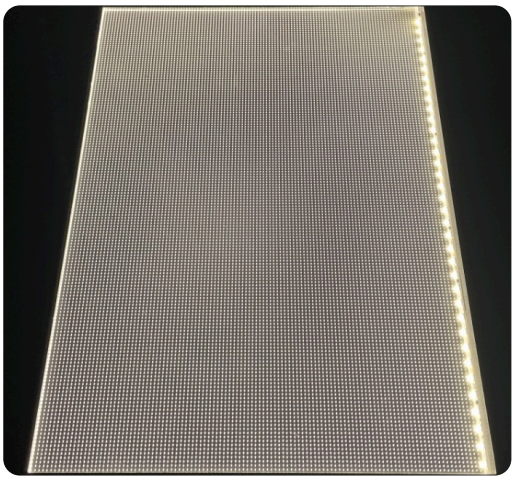




4000 K

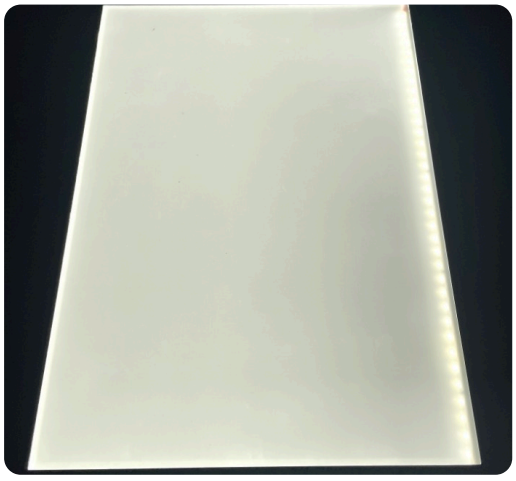
Neutral white



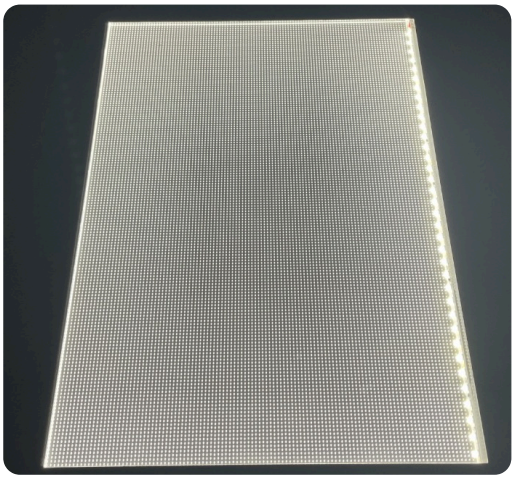


5000 K

Daylight white



with opal front

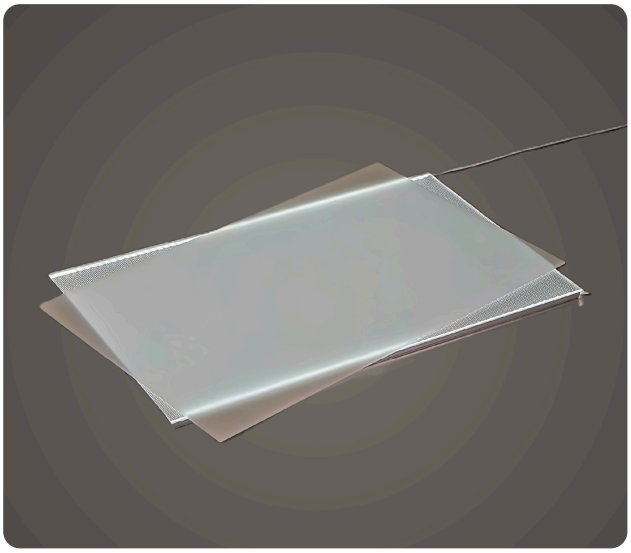


without opal front

TECHNICAL OPTIMISATION

What sets FINE apart.

6–7 mm	**Ultra-flat design** Ideal where installation depth is minimal – in furniture, wall panelling or yacht interiors.
Laser	**Laser dotting** A precise laser grid on the acrylic sheet distributes the light evenly across the entire surface.
Edge	**Edge-lit feed** The LEDs couple in from the side and the light-guide plate directs the light forward – for high uniformity.
10 mm	**Narrow edge zone** Only 10 mm along the LED sides needs covering; the rest of the surface glows very evenly.
± 0.4	**Tight tolerances** ± 0.4 mm (FINE-S 6) and ± 1.1 mm (FINE 7) allow precise project planning.
2.5 m²	**Large formats** Frameless up to 3,040 mm wide and 1,500 mm high, max. 2.5 m² – as recessed or surface-mounted luminaire, optionally with diffuser plate.



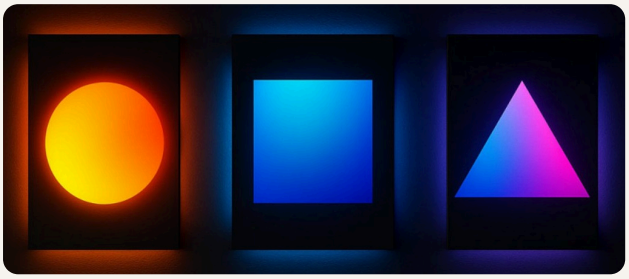
FINE panel light with opal front sheet and connecting cable

Application benefits

- **Architecture and interior design**
  Seamless integration into walls, ceilings, furniture or translucent materials.
- **Yacht design and special applications**
  Exclusive, space-saving lighting solutions with strong aesthetic impact.
- **Energy efficiency**
  High efficacy of 162 lm/W with low power consumption.

LICHTRAUM LRM

Illuminated or self-luminous – illuminating.



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