

## Luminous Panel (Tunable white)

The **hansen Luminous Panel** is a very flat light source with a large luminous area. It can be used to backlight acrylic glass panes, banner fabric, posters or similar material.

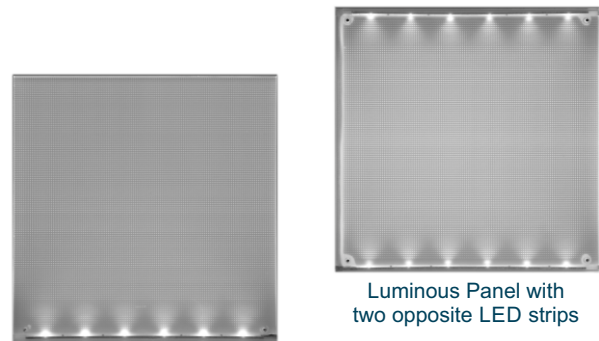
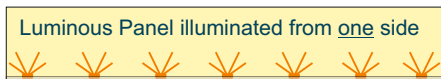
The **Luminous Panel** consists of a 10 mm thick light-transmitting acrylic glass pane illuminated by LEDs shining into the material from one or two sides. A 3 mm white acrylic glass rear panel attached to the light-transmitting pane reflects the light towards the front.

There is no pre-determined height or width, the **Luminous Panel** is made to customer specification.

General data:	
Type of connection	Parallel connection
Operating voltage	12 V
Power consumption	13.3 W/m (one illuminated side)
Light colours	2700 K to 6500 K
LED spacing	2 x 15 mm
Circuit board pitch	45 mm
Degree of protection	IP20
Class of protection	III
Ambient temperature range	-25 °C to +65 °C
Residual luminous flux	70% after 50.000 operating hours
Conformity	CE, RoHS
Minimum dimensions	80 x 80 mm
Maximum width	3,000 mm
Max. height (between LED strips)	1,500 mm
Overall depth (thickness)	13 mm (+/- 1.7 mm)
Weight	15.4 kg/m <sup>2</sup>

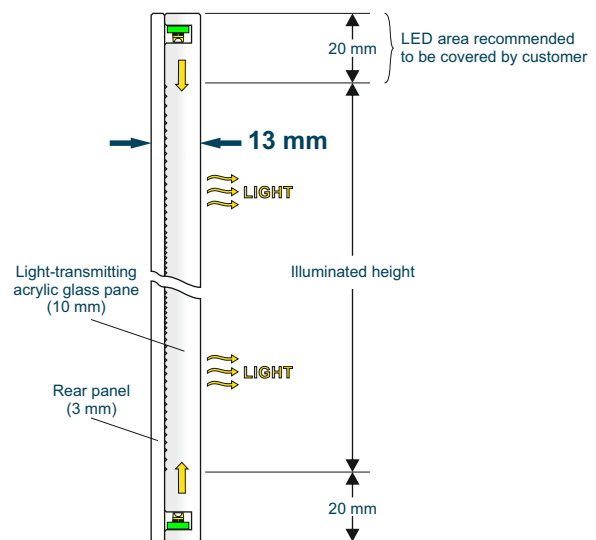
Material properties – PMMA (acrylic):	
Manufacturing process	Casting
Linear expansion	0.07 mm/(m K) (DIN 53752-A)
Reaction to fire	Building material class B2 (DIN 4102)
Flammability	HB (UL 94)

Photometric data (luminance on the surface) for panels illuminated from one side:			
Type	Illuminated height →	200 mm	400 mm
Tunable white		~1.100 cd/m <sup>2</sup>	~650 cd/m <sup>2</sup>



Luminous Panel with one LED strip

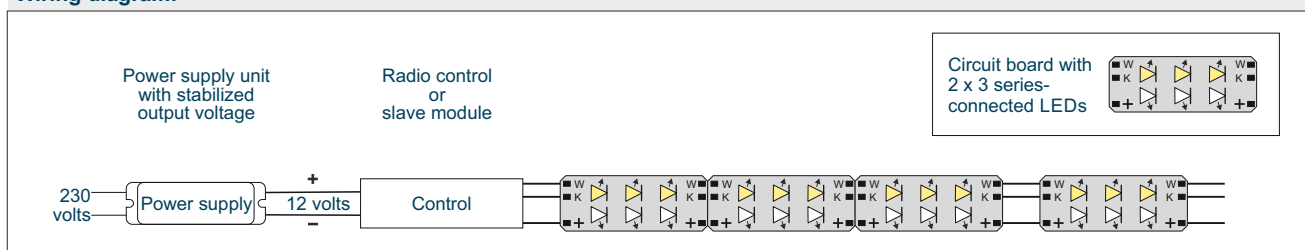
Luminous Panel with two opposite LED strips



Photometric data (luminance on the surface) for panels illuminated from two sides:			
Type	Illuminated height →	500 mm	1,200 mm
Tunable white		~950 cd/m <sup>2</sup>	~450 cd/m <sup>2</sup>



### Wiring diagram:



All values refer to an ambient temperature of +25 °C.



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