

## Luminous Panel (Basic + Eco) „Outdoor use“

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.

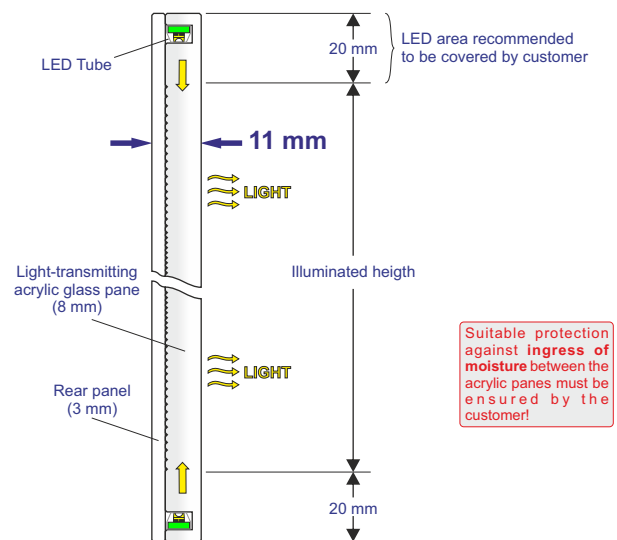
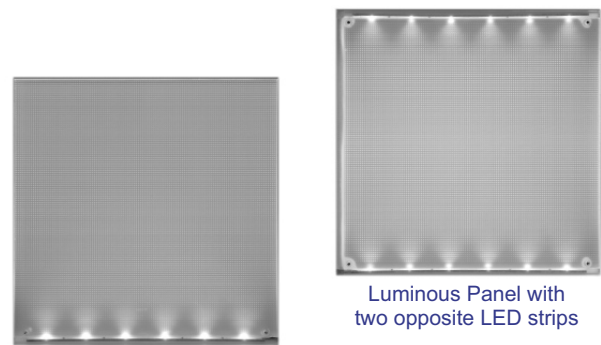
The **Luminous Panel** consists of an 8 mm thick light-transmitting acrylic glass pane illuminated by LEDs shining into the material from one or two sides. A 3 mm acrylic glass rear panel attached to the light-transmitting pane reflects the light towards the front.

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

| General data:                    |  |
|----------------------------------|--|
| Type of connection               | Series connection  |
| LED current                      | 50 mA  |
| Power cons. (Eco)                | 4.95 W/m (one illuminated side)  |
| Power cons. (Basic)              | 9.9 W/m (one illuminated side)   |
| Light colours                    | 2700K / 3000K / 4000K / 5000K / 6500K  |
| LED spacing                      | 15 mm  |
| Degree of protection             | IP 65* <small>*The electronic components are protected against moisture.</small> |
| Class of protection              | II   |
| Ambient temperature range        | +5 °C to +50 °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)        | 11 mm (+/- 1.5 mm)   |
| Weight                           | 13 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                |
| Eco   |                      | 550 cd/m <sup>2</sup>   | 325 cd/m <sup>2</sup> |
| Basic   |                      | 1.100 cd/m <sup>2</sup> | 650 cd/m <sup>2</sup> |

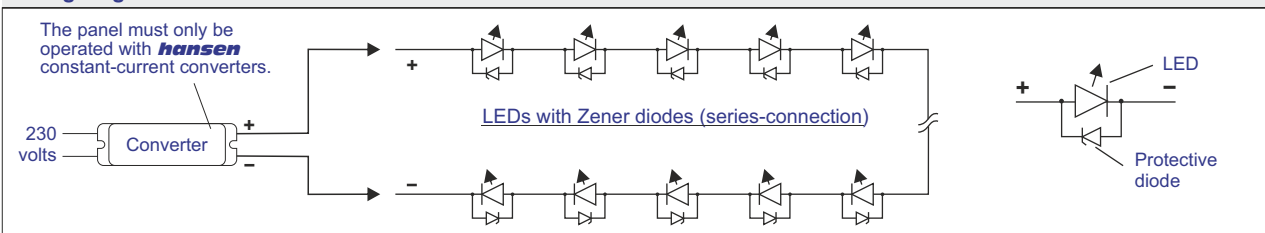


## Luminous Panel Basic + Eco

| Photometric data (luminance on the surface) for panels illuminated from two sides: |                      |                       |                       |
|--|----------------------|-----------------------|-----------------------|
| Type   | Illuminated height → | 500 mm                | 1,200 mm              |
| Eco  |                      | 475 cd/m <sup>2</sup> | 225 cd/m <sup>2</sup> |
| Basic  |                      | 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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February 2019 LD12e/02/2019