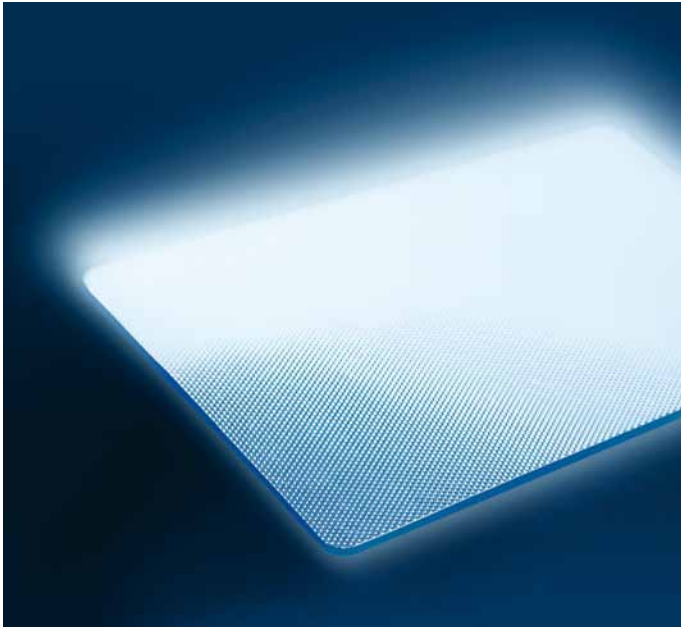


**LGP**  
**Light Guiding Prismatic Plate**



The LGP decouples light which is fed into the sheet from the sides across the surface area by the integrated prismatic optics. The optical structure is not acting as a diffusor but uses reflection and refraction of the microprisms. The direct portion of the light is usually also de-glared.

**Key features**

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LGP decouples light fed in from the edge, uniformly and directed across the wide surface area

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light extraction through a calculated combination of light refraction and total internal reflection of the integrated optical elements

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about 40% of light indirectly in a batwing

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about 60% downlight, de-glared

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transparent look when not lit

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homogenous light output for a panel width of 300 mm (LEDs single sided) or for a panel width of 600mm (LEDs double sided)

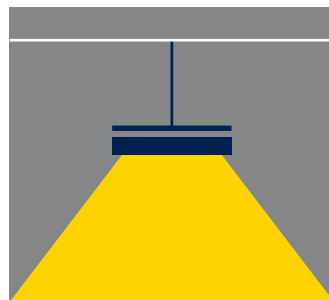
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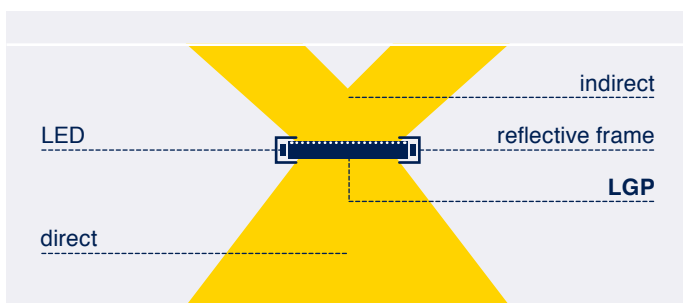
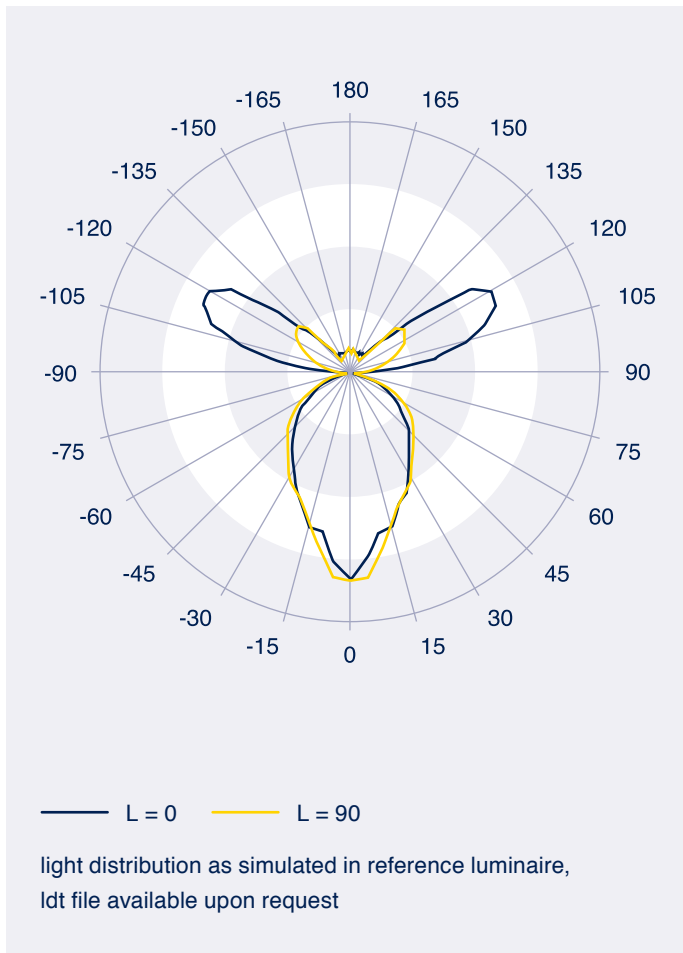
efficiencies up to 85%

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ultra-thin fixture profiles

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**Product data**

standard material	PMMA clear (acrylic) PC upon request
dimensions	rectangle up to 1500 mm x 300 mm square up to 600 mm x 600 mm customer specific cuts and optional profile edge treatment (milling)
thickness	6 mm (3.0 up to 8.0 mm upon request)
prism structure	standard, customer specific
refractive index	1.491
transmittance <sub>D65</sub>	92% (acrylic clear)
temperature range	-40 °C up to +80 °C (acrylic)
customization options	development of prismatic microstructures for your specific applications, tooling and series production