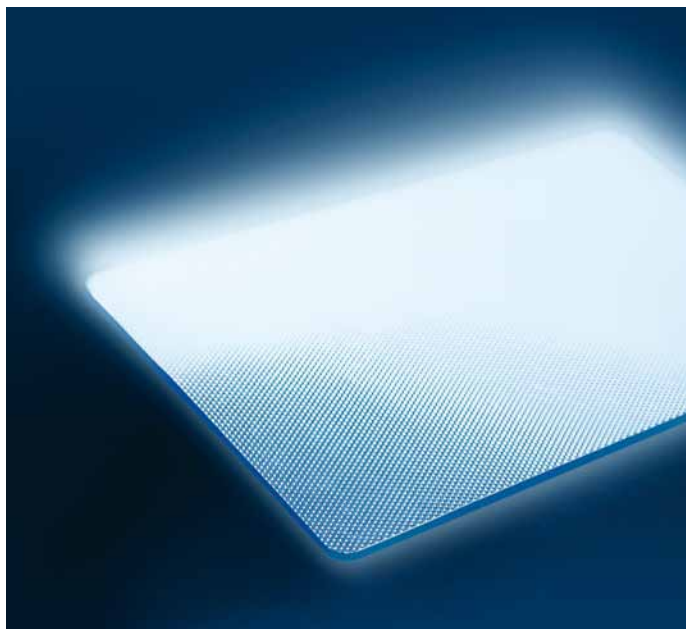


LGP
Light Guiding Prismatic Plate



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

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

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

about 40% of light indirectly in a batwing

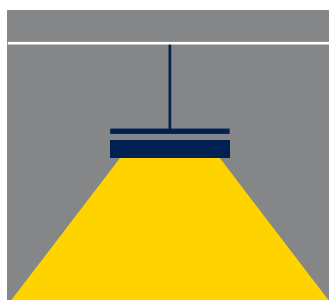
about 60% downlight, de-glared

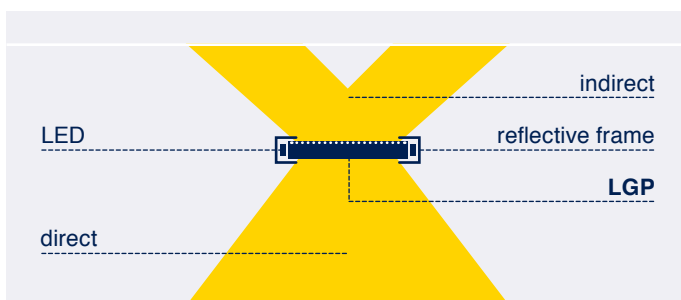
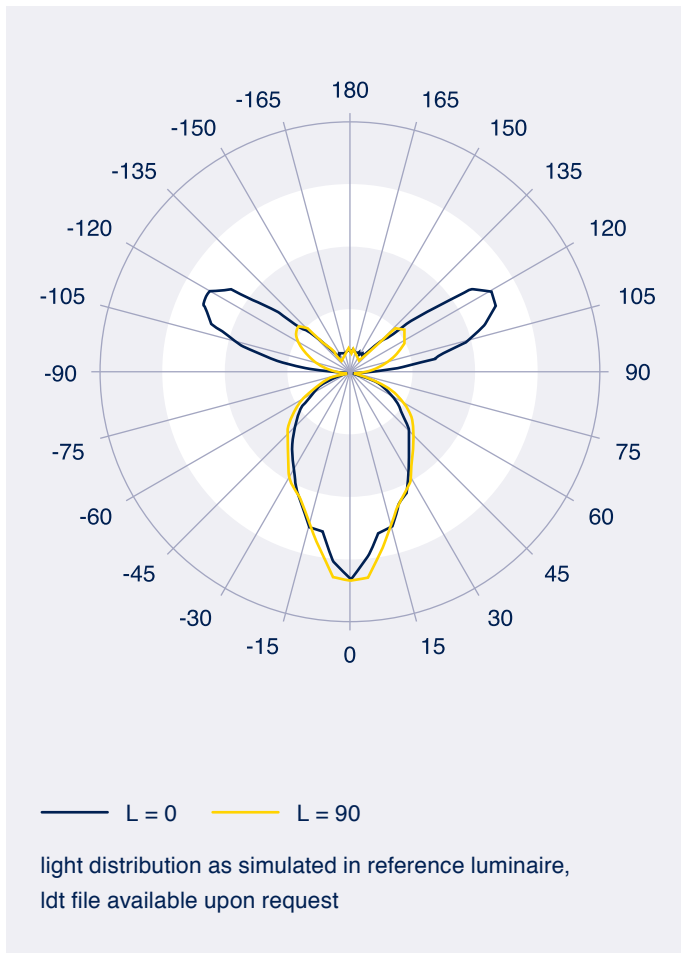
transparent look when not lit

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

efficiencies up to 85%

ultra-thin fixture profiles





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 _{D65}	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