

The new enhanced technology of edgelit light guiding prism sheets offers individual solutions for a wide range of LED based lighting applications: from office lighting with regulation compliant de-glaring performance to glare-free street lighting up to shadowfree workbench illumination and many more. Customer specific optimisation of the light decoupling elements in combination with a variety of different form factors allow for truly unique products with highest efficiency and a transparent appearance.

**Product data**

standard material	PMMA clear (acrylic)
available size	customer specific
	customer specific cuts and optional profile edge treatment (milling)
thickness	customer specific
refractive index	1.491 (PMMA)
transmittance <sub>D65</sub>	92% (acrylic clear)
temperature range	-40 °C up to +80 °C (acrylic)

LGP decouples light uniformly and directed across the wide surface area. Light can be fed in from the edge, over the surface or in a customer specific variation

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

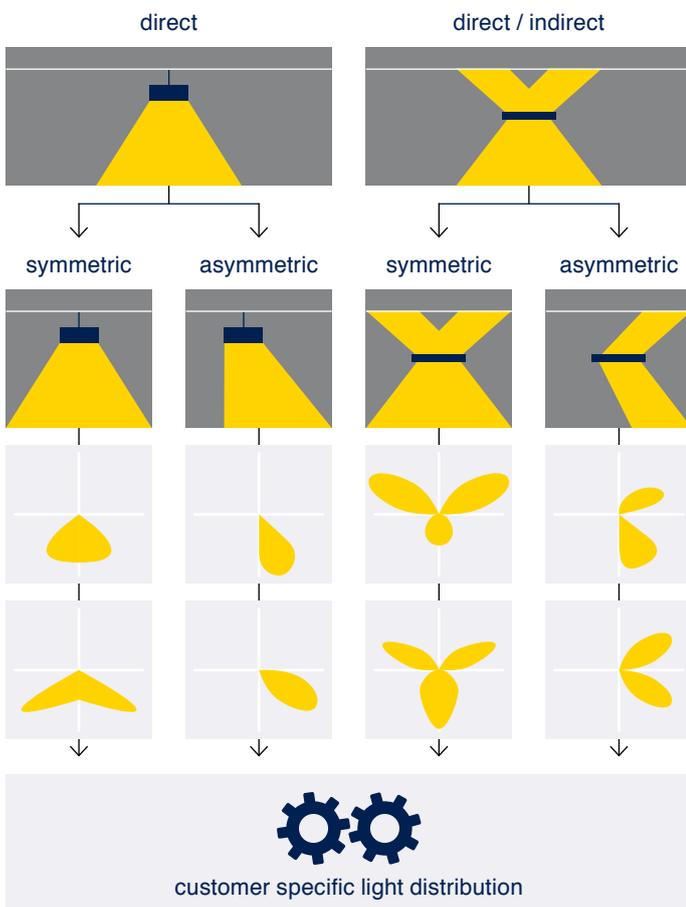
customisable ratio of direct / indirect portion of the light

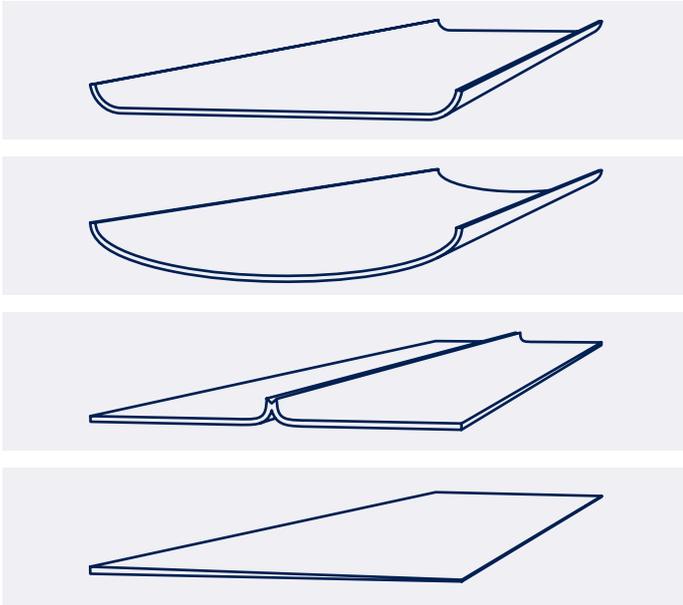
transparent look when not lit

homogeneous light output and maximum efficiency by optimized structure placement

efficiencies up to 85%

ultra-thin fixture profiles





### Design options

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We offer a wide array of different form factors and customised tooling options. Aside from purely aesthetic reasons, shapes and geometries can add significant functionality and thus create a truly unique design.

The combination of a wide range of form factors and the development of customized extraction features allow for an extra amount of design freedom when shaping your product. Density, depth, shape and number of structured sides are all variable.



### Possible applications

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Street, railroad and pathway lighting

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Parking garage lighting

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Office Standing

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Workspace illumination

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Pendent luminaire

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Recessed luminaire

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Industrial and machine lighting

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