

**LP90**  
**Linear Prism 90°**



The special geometry of perpendicular prisms in this product solves efficiently: beam splitting, ray deflection, total reflection of perpendicular incident light and much more.

**Key features**

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highly transparent 90 degree microstructured prism sheet

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highest possible efficiency

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polycarbonate (PC) upon request for advanced fire safety regulations

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**Applications**

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total deflection of perpendicular light

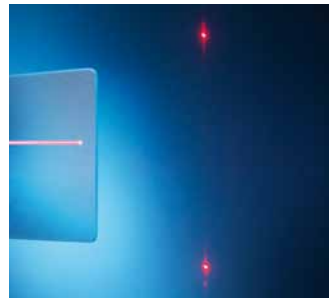
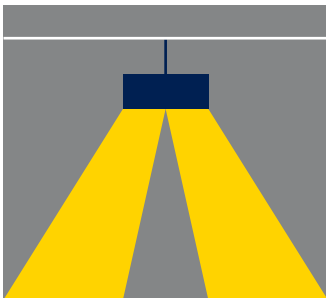
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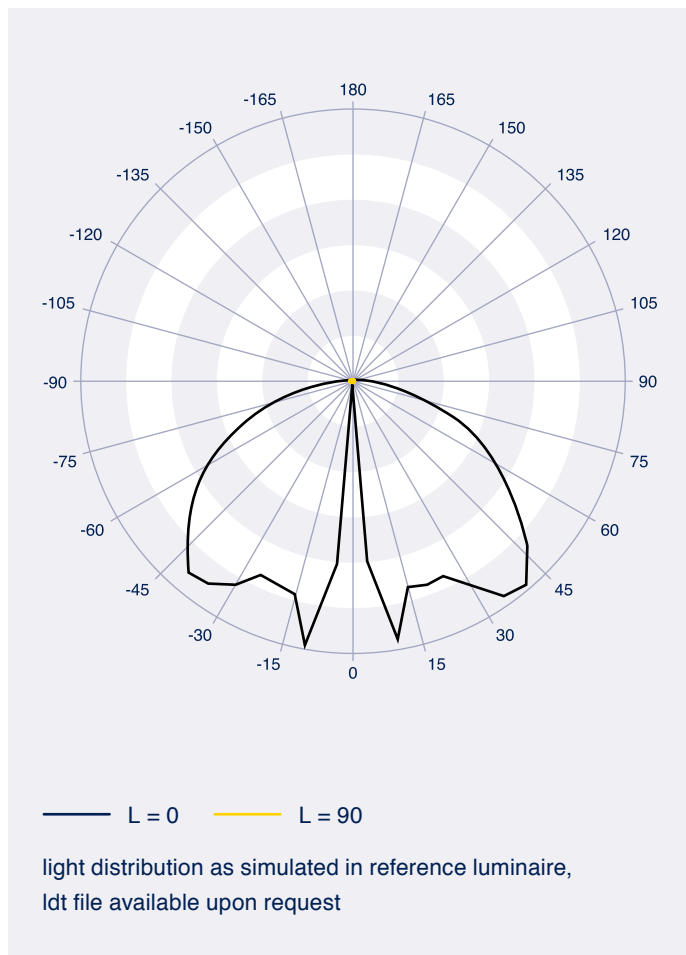
cut-off of direct sunlight (sun protection)

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one axis beam splitter in luminaires (batwing distribution)

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**Product data**

standard material	PMMA clear (acrylic) PC upon request
available size	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	3 mm (2.5 up to 6.0 mm upon request)
prism pitch	1 mm
refractive index	1.491
transmittance <sub>D65</sub>	92% (acrylic clear)
efficiency	> 95% (in typical LED luminaire)
temperature range	-40 °C up to +80 °C (acrylic) / 120 °C (PC)
customization options	development of prismatic microstructures for your specific applications, tooling and series production