

**LSP**  
**Linear Sine Prism**



The LSP consists of linear prisms which are modified sinusoidally in their cross section so as to function as an optical diffusor perpendicular to the main axis of the sheet. The main ray path is maintained in order to ensure high efficiency in comparison with standard opal materials.

**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)
cone diameter	1.5 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