

SCHOTT® Automotive SideLight

Flexible Side Emitting Light Guide



SideLight application

More than just a nice appearance

Light guides made of glass fibers in conjunction with modern LED light sources support the trends in the area of interior design. Glass fibers are composed of a natural material. Because they are also flexible, they can be easily integrated into small installation spaces. Thanks to their excellent optical properties, they combine functional and ambient lighting into a successful overall solution.

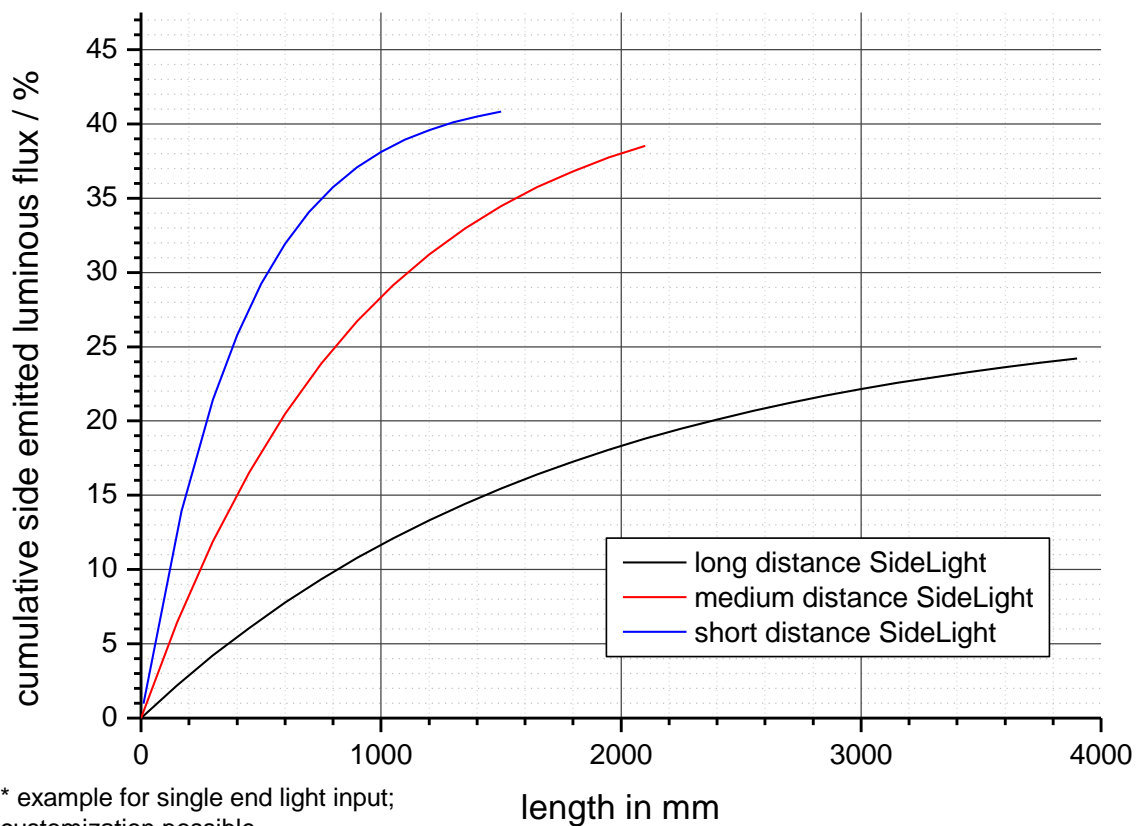
Key Features and Benefits



- Homogeneous and evenly distributed light output over a length of several meters
- No visible colour shift
- Customized side emitting efficiency
- Suited for a single colour or RGB-light-engine
- Easy to adapt to a central light engine
- Small bending radius
- Design freedom due to high flexibility
- Customized outer appearance in shape and colour (non-illuminated state)
- Cost saving – no extra tooling required
- New design opportunities : – ambient illumination
 - „mood light“
 - direct contour illumination

Parameter	Typical Value	
Outer Diameter	4,9 mm +/- 0,2 mm	or customer specific
Active Diameter	3mm	or customer specific
Minimum Bending Radius	20 mm	depending on outer diameter
Numeric Aperture (2 α)	0,48 (57°)	50% intensity value
Colour Shift	<150 K/m	or customer specific
Temperature Cycle	25 x -40 / +80°C	passed
Temperature Resistance	110°C / <20% r.h. / 10d	passed
Climate Resistance	45°C / 95% r.h. / 10d	passed
VOC-, FOG, Emissions-Test	According to OEM specification	passed
Xenon-Test	According to OEM specification	passed
Flammability	According to OEM specification	passed
Full qualification report available upon request		

Cumulative luminous flux [%] over homogeneously lit SideLight



* example for single end light input;
customization possible

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 glass made of ideas