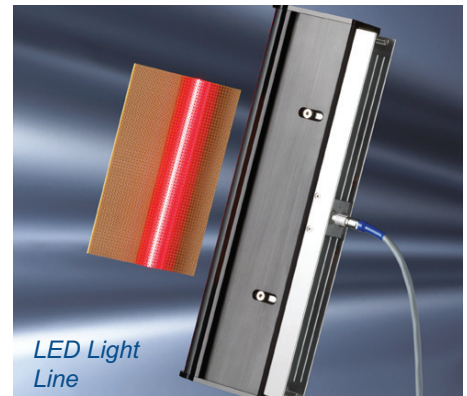


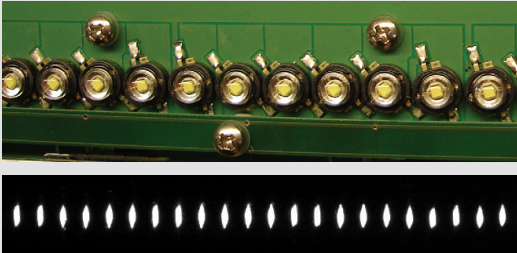
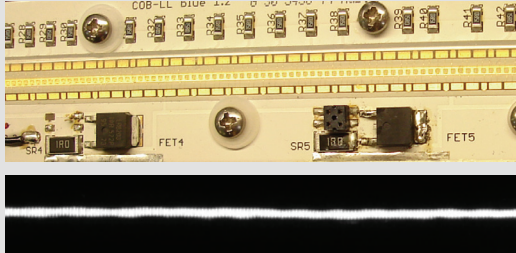
# SCHOTT High Brightness (HB) LED Light Line

Customized HB LED light lines with high power Surface Mount Device (SMD) or Chip on Board (COB) LEDs.

The SCHOTT LED technology is an excellent compliment to SCHOTT's fibre optic light line program, allowing customers to select the best technology for their specific application.



## SCHOTT High Brightness LED - Comparison

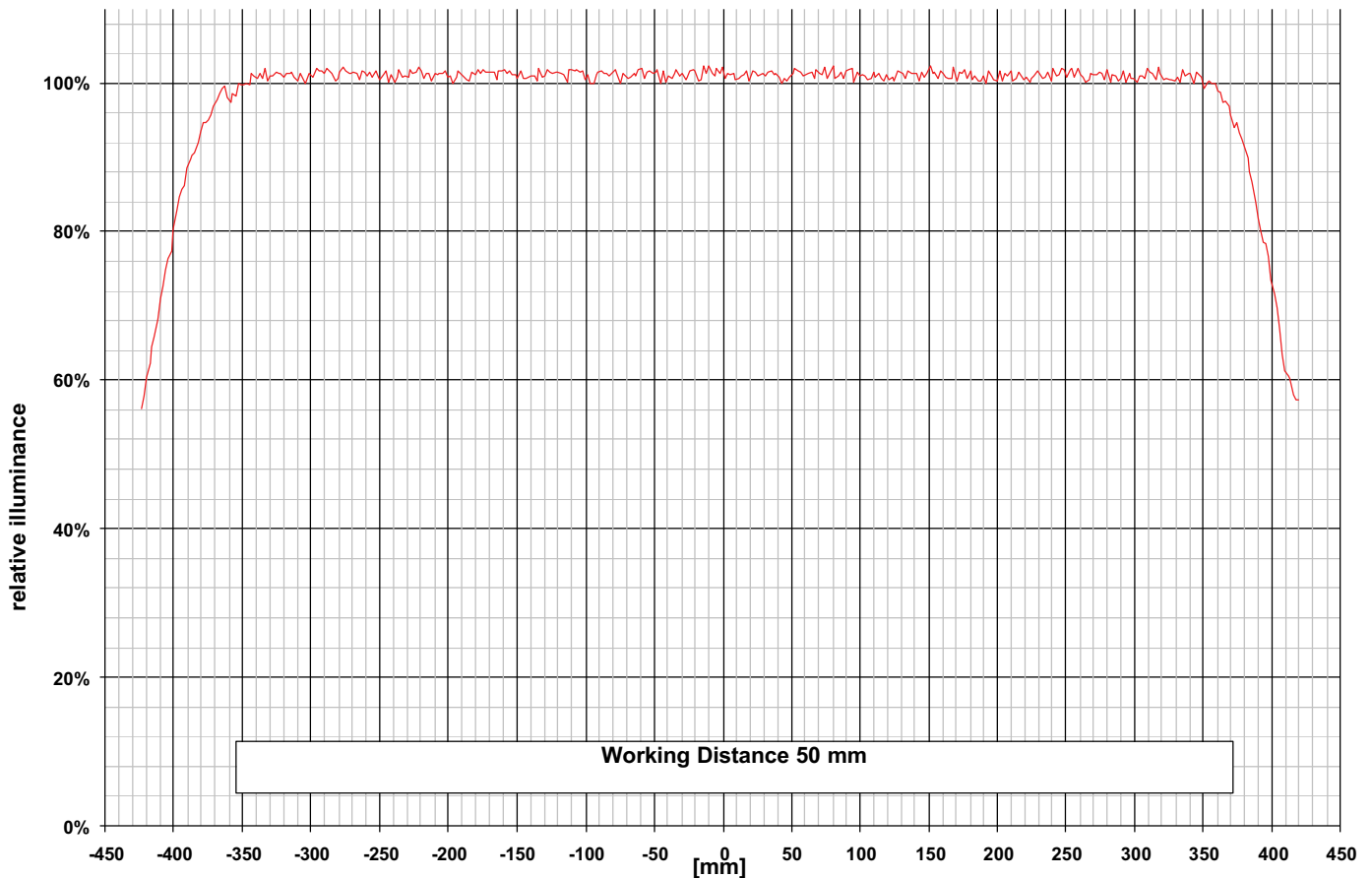
	SMD (Surface Mount Device)	COB (Chip on Board)
Characteristics	<ul style="list-style-type: none"> <li>Customized HB LED light lines for web scanning and diffuse surface inspection of paper, wood and other materials.</li> <li>The HB LED light line's acrylic cylindrical lens is integrated into the housing, and can be adjusted to modify the working distance between 50 and 100 mm. This allows for example to generate a focused light line with an illuminance of 400 klux and a homogeneity of +/- 5 % in the plateau level at a working distance of 50 mm.</li> <li>The mechanical design is based on extruded side profiles that integrate MayTec profile grooves along the sides of the slim housing, allowing an easy and flexible mounting into manufacturing lines.</li> </ul>	<ul style="list-style-type: none"> <li>Extending the application range to high homogeneity reflective applications such as the inspection of steel and aluminium foils and glass sheet inspection (e.g. FPD)</li> <li>Thanks to very high LED assembly densities on the circuit boards the COB technology provides the greatest benefits for high illuminance and homogeneous light lines.</li> <li>&gt; up to 200 klux &lt; for red COB</li> <li>The mechanical design is based on extruded side profiles that integrate MayTec profile grooves along the sides of the slim housing, allowing an easy and flexible mounting into manufacturing lines.</li> </ul>
Colors	<ul style="list-style-type: none"> <li>White or red.</li> <li>White and red high power Surface-Mount-Divide (SMD) LEDs are available from SCHOTT since 2007.</li> <li>Other colors are available upon request.</li> </ul>	<ul style="list-style-type: none"> <li>Red or blue</li> <li>SCHOTT now offers customized light lines based on red or blue Chip-on-Board (COB) technology.</li> <li>HB LED light lines based on white COB technology will be available end of 2008.</li> <li>Other colors are available upon request.</li> </ul>
	 <p>Camera view into SMD-light line in reflective or transmissive inspection setups</p>	 <p>Camera view into COB-light line in reflective or transmissive inspection setups</p>

# SCHOTT High Brightness (HB) LED Light Line

## SCHOTT High Brightness LED - SMD and COB

Cooling	<ul style="list-style-type: none"> <li>Either an active air cooling or with a water cooling for high end applications.</li> <li>A continuous control of the LED board temperature prevents an overheating of the individual LEDs and thus ensures a safe operation of the HB LED light line.</li> </ul>
Lengths	<ul style="list-style-type: none"> <li>The design concept allows lengths of 300 mm to 3,000 mm in increments of 150 mm.</li> </ul>
Intensity Control	<ul style="list-style-type: none"> <li>The intensity can be controlled either by means of a dimmable potentiometer via constant current or remotely via a fast TTL-input with frequencies up to 50 kHz.</li> <li>Factory setting</li> </ul>
Customization	<ul style="list-style-type: none"> <li>The LED boards can thus be custom tailored to most specific applications, even in regard to mixed-color requirements. It also allows a future upgrade to even higher performance LEDs once they become available.</li> </ul>

Horizontal light distribution



Horizontal light distribution

### For more information please contact

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