At Laser-Laboratorium Göttingen, the performance of optical components for high power lasers and EUV-sources is comprehensively characterized using testing procedures in accordance with ISO standards:

- **Absorptance (ISO 11551)**
- **Laser-induced damage threshold (ISO 11254)**
- **Wavefront distortion (lens heating, compaction)**
- **Transmittance / Reflectance**
- **Scattering (ISO 13696)**
- **Degradation (color centers) for up to 1 billion laser pulses**
- **Fluorescence / Luminescence**

**Available radiation sources**

- **High power excimer lasers**
  - 351nm, 308nm, 248nm, 193nm, 157nm
- **Solid-state lasers**
  - 1064nm, 532nm, 355nm, 266nm (ns and ps pulse widths)
  - 1070nm fiber laser (500W cw)
  - tunable OPO: 680 – 980 nm + IR-Idler
- **Laser-induced EUV / XUV source**
  - 13nm, 2 - 4nm