

DESIGNED WITH AN EYE TO THE FUTURE.
INNOVATIVE LED OPTICS MADE FROM GLASS.

2ND EDITION



LED
Optics

LED OPTICS MADE FROM GLASS: THE INTELLIGENT CHOICE.

longlasting



LED technology is more efficient today than ever before. So why use yesterday's materials? Rely on the advantages of Auer glass-made optics: temperature and UV resistance and stability for a long service life. In addition to proven standard products, we develop customer-specific and precise solutions for your groundbreaking lighting concepts, and for light that stands the test of time.

We work on these challenges every day, equipped with complex software solutions, state-of-the-art machinery, decades of experience and a vast patent portfolio.

Smart usage of SSL sources, efficient distribution of exceptional quality light and optimal configuration of design-related specifications. To us, each of these is both a challenge and a source of inspiration.

Enjoy the following light ideas.



REFLECTIVE LED OPTICS BY AUER LIGHTING:
LONG-LASTING SOLUTIONS FOR TIMELESS LIGHTING.

reflectors



Our expertise shows in the design of free-form surfaces such as those of Venus, Topaz and Pearl, optimized for the targeted SSL source. For homogenous light distribution and outstanding color-mixing, various facets can be added. Reflectors are finished with high-reflective (> 95%) dichroic coatings.

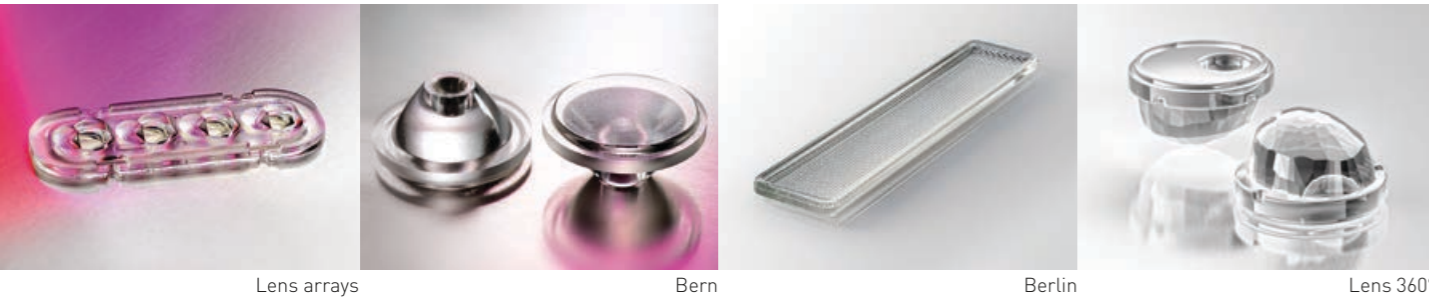
Reflectors such as Ruby are based on the principle of total internal reflection (TIR), allowing a certain amount of uplight.

Currently, many new LEDs feature relatively large light-emitting-surfaces (LES) and scalability is an important advantage for glass. The trend towards chip-on-board (COB) LEDs makes reflector solutions even more attractive.



AUER LIGHTING'S REFRACTIVE LED OPTICS BRING OUT THE BEST IN LIGHTING.

lenses



Our collimator lens concepts have the inherent ability to protect the LED light source from its surroundings. The concept is based on a bulk optical approach that seeks to capture all of the LED's emission and gain control over it.

The product portfolio of refractive optics comprises single collimators for a specific LED – for example, Bern combined with TIR lenses for retro-fit applications – lens arrays as well as Fresnel lenses.

Our new 360° outdoor lens is easy to handle and highly efficient as well. With only one lens design, multiple street light distributions, e.g. Type II, Type III or square, are possible by rotating the optics. All are made of SUPRAX® 8488 borosilicate glass, featuring a 1.482 refraction index, a 64.5 Abbe value, and very good transmission in the visible spectrum and beyond.

The result is aesthetically pleasant and versatile lighting with top-quality glass optics.



LIGHT IS AN INTEGRATIVE COMPONENT OF ARCHITECTURE:
NON-GLARE HYBRID OPTICS WITH DEFINED BEAM ANGLES.

hybrid optics

Jupiter 50

Adapter

Jupiter 110

Architectural lighting stands for best performance and aesthetics. Auer Lighting's non-glare line is the perfect solution for clean light with defined beam angles.

The Jupiter, a combination of a lens and a reflector with high reflective dichroic coating, offers even more: no glare, no halo.

The long-lasting glass optics is suitable for a large range of LEDs with LES up to 9 mm. The hybrid unit protects the LED against environmental influences. It is UV-stable, scratch-resistant, and easy to clean. Different mounting options make the Jupiter an obvious choice to opt for.



TAILOR-MADE COATINGS TO UPGRADE SSL APPLICATIONS.

coatings



Fresnel lenses, AR-coated

Dichroic filters

Dome, AR-coated

Pearl

Dichroic filter and mirror systems are specially designed to transmit or reflect light from the LED source, adapted to perfectly comply with the SSL's demanding spectral emission characteristics.

Auer's outstanding coating expertise and its extraordinary flexibility provide the means for high-reflection or high-transmission coatings for all LED spectra. Specially devised filters cover a wide range of colors.

Besides highly efficient AR coatings, our product portfolio also includes various color correction filter options.

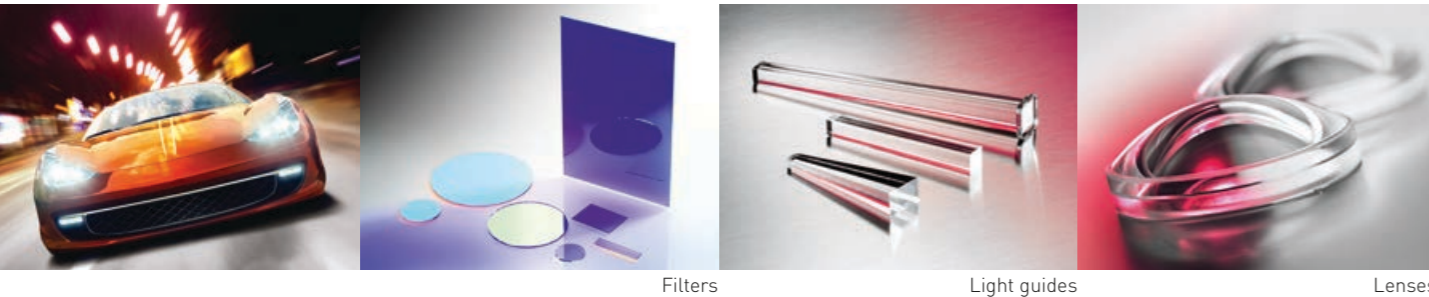
The different coating technologies that Auer Lighting provides paired with its in-depth engineering knowledge make Auer Lighting an excellent choice for coatings of filters, lenses, arrays and reflectors to upgrade your LED lighting quality.

Auer Lighting's aesthetic coatings are reflections of pure beauty. The perfect match of glass optics and coatings results in much more than simply homogeneous light distributions.



DEVELOPED FOR VISION. HIGH-PRECISION COMPONENTS
FOR AUTOMOTIVE LIGHTING.

automotive



Filters

Light guides

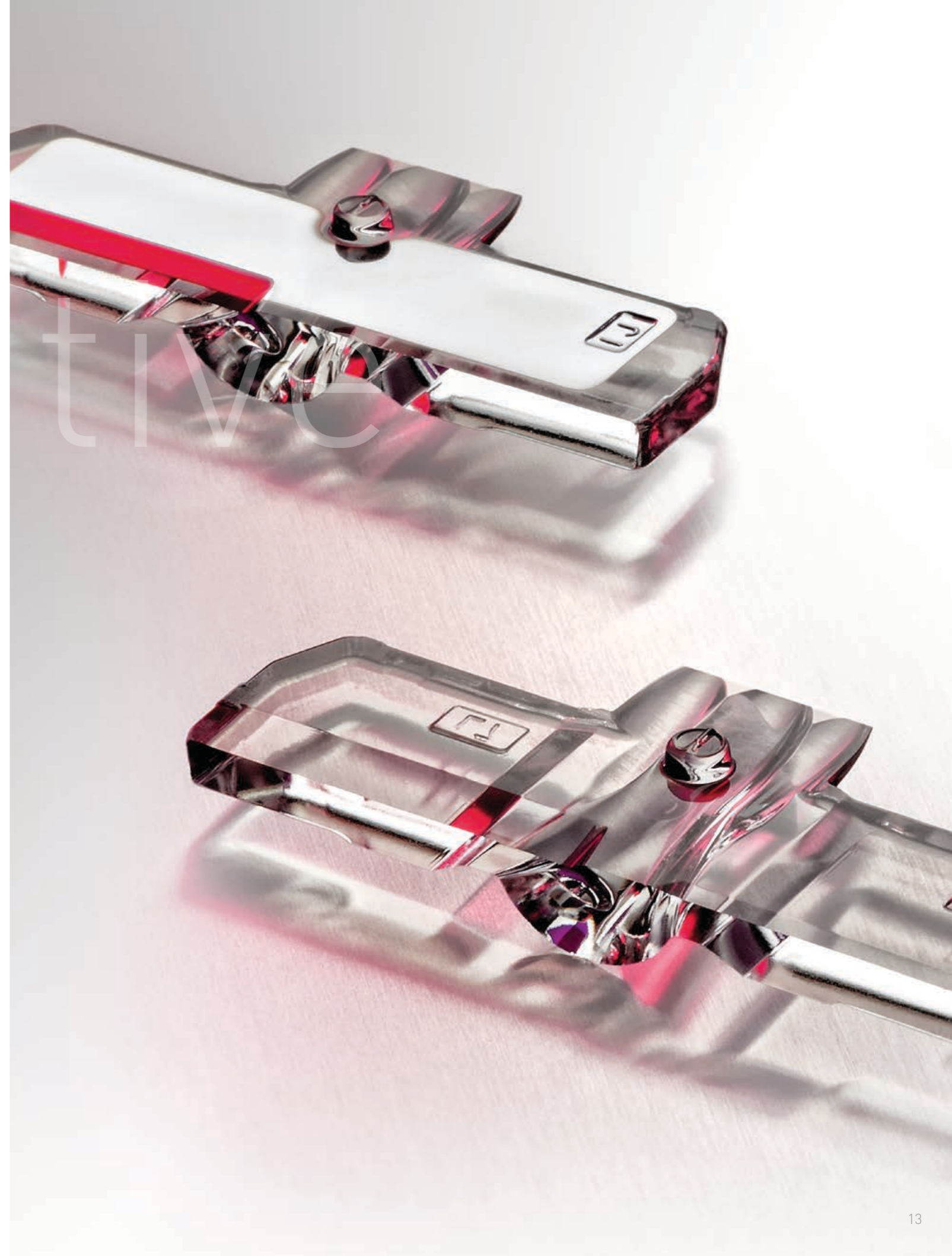
Lenses

Optical glass components from Auer Lighting play a major role in the latest innovations in automotive lighting at present. Laser headlights are producing precise beams that draw on our special prisms, filters, and converters.

State-of-the-art LED and Matrix LED headlights use collimator lenses and light guides for beam shaping and to focus the light without any color artefacts. Auer Lighting develops such sophisticated free-form lenses and lens arrays – always in line with technical lighting standards and design guidelines.

We contribute to energy savings by using optimized reflector matrix systems for LED/laser applications that enable adaptive light functions with light weights.

Auer Lighting's automotive components direct light from all light sources: laser, LED and Xenon.

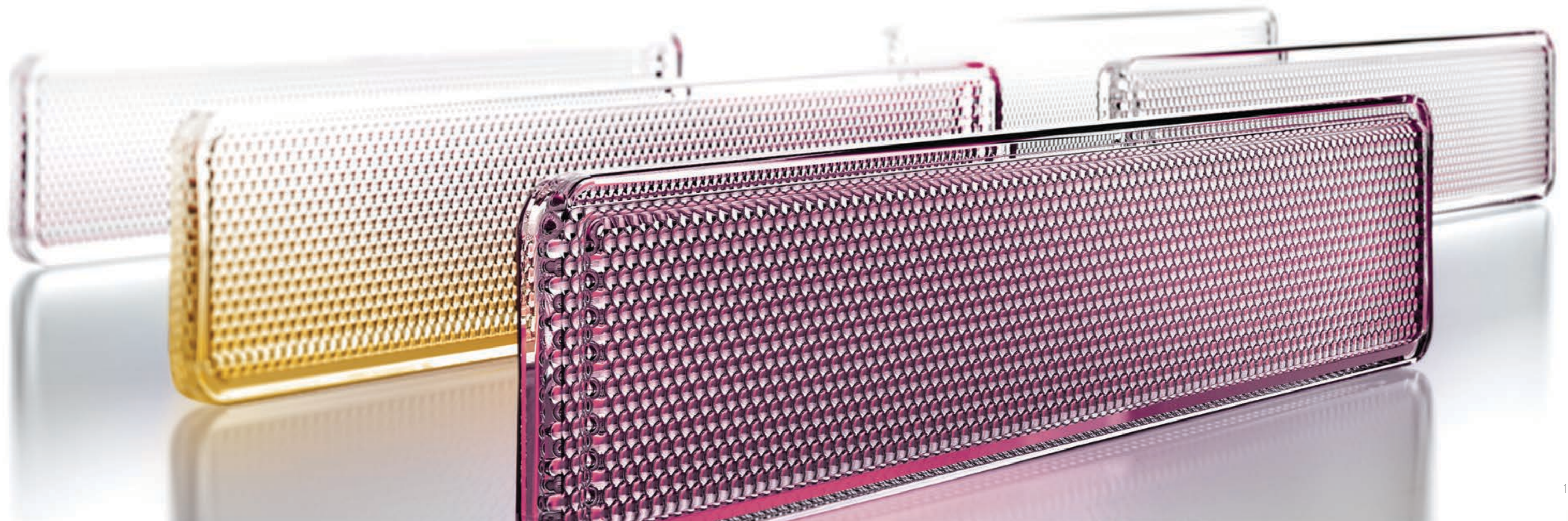


LEADership

Auer Lighting works with the most up-to-date optical design software and machinery to develop optical components for the next lighting decades. We do so in close cooperation with our customers, blazing the trail for future generations.

Every day, our skilled engineers convert optical concepts into innovative products to meet your expectations. Discover our extensive range of products at:

shop.auer-lighting.com





Auer Lighting GmbH
Hildesheimer Straße 35
37581 Bad Gandersheim
Germany
T +49 (0) 5382 701-0
F +49 (0) 5382 701-297
led@auer-lighting.com
www.auer-lighting.com