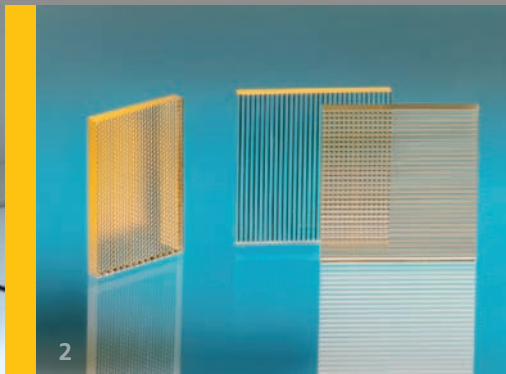
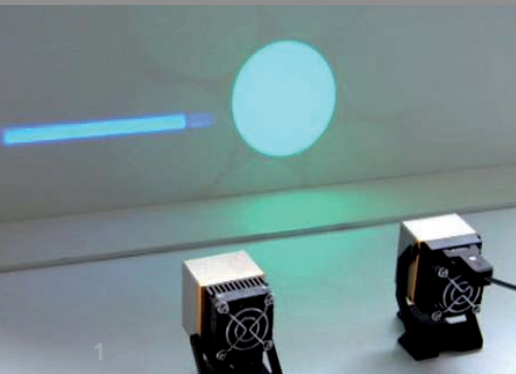




Fraunhofer

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FRAUNHOFER INSTITUTE FOR APPLIED OPTICS AND PRECISION ENGINEERING IOF



- 1 High-efficient LED-illumination devices.
- 2 Cylinder lens arrays for homogenization.
- 3 Development of components.

HIGH-EFFICIENT LED-ILLUMINATION DEVICES

Fraunhofer Institute for Applied Optics and Precision Engineering IOF

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Our Competence

- Complete systems
- Problem analysis
- Optical Design for customized beam shaping
- Rapid prototyping
- Manufacturing
- System integration

Different Available Devices

I -Base-

This small, functional device benefits technical illumination applications without a need for dynamic light modulations. It creates a homogeneous spot with tailored shape and size.

II -Advanced-

This device adds the possibility to tune colour and brightness of the resulting spot. It is delivered with a separated power-supply.

Available Devices	I	II	III	IV
DC-Mode	X	X		X
Colour-Control		X	X	X
Brightness-Control		X	X	X
Programmable Interface			X	X
Including Software			X	

III -Pro-

For higher requirements concerning brightness and to realize colour-effects this device fits to your demands. It is delivered together with PWM-Control and LED-tuning software.

IV -Flex-

This device includes all conceivable features in one nice compact product: PC-Interface, DC-Light and high brightness.