

NANOPTIQS

OPTICS REDEFINED



IQ Linear

Cutting-Edge Flat Optics

NANOPTIQS

Pioneering optics innovation with micro and nanostructures

Welcome to IQS NANOPTIQS

As part of the IQS Group, we specialize in micro and nanostructured optics, revolutionizing LED lighting, sensors, and automotive lights. Our expertise? Creating high-efficiency, innovative optical elements.

Innovative Optical Solutions

Our products, including the IQ Linear series, offer superior performance through miniaturization and precision in light management. For custom needs, the IQ System delivers tailored solutions, enhancing both material and energy efficiency.

3D model showing a typical nanostructured surface.

The nanostructure depth is exaggerated in order to clearly show the facets.

30 μm



Expertise That Leads

Our R&D team, with 25+ years in the field, drives our success, utilizing advanced technologies to design, develop and produce cutting-edge optics in our state-of-the-art facilities in the heart of the Czech Republic.

IQ Linear

Advanced flat optics with nanostructured surface for superior precision in light beam management

Flexible PC film 0,125 - 0,500 mm

Rigid PMMA substrate 1,5 - 2,0 mm



Slim and innovative optics offering new luminaire design options



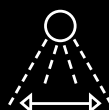
Significant savings on luminaires and energy consumption



Designed for use with a wide range of LEDs and PCBs



Available in various widths, lengths and thicknesses



Precise light management



Carbon footprint reduction due to energy and material-efficient production



Miniaturization of luminaire design



The efficiency up to 96% compared to clear plastic luminaire covers

Slim & attractive

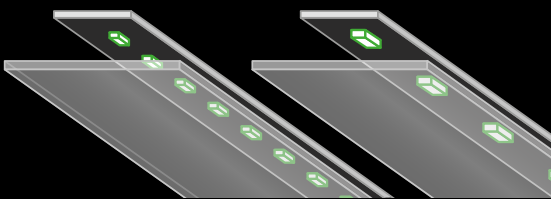
NANOPTIQS miniaturization enables innovative and material-efficient luminaire designs.



Ready for action

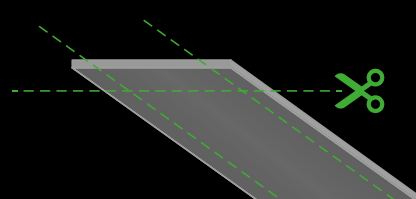
Designed for effortless installation, our optics offer unparalleled flexibility, seamlessly adapting to your specific luminaire design needs.

Flexible Installation



Versatile Compatibility

Fits a wide range of LED strips and PCBs

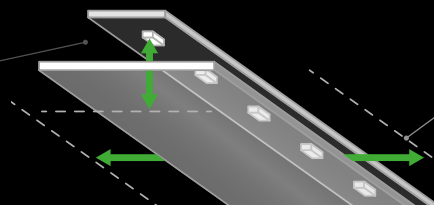


Adjustable Dimensions

Whilst maintaining optical performance

Customizable Working Distance

Optimal 10 and 20 mm LED-to-optics spacing recommended



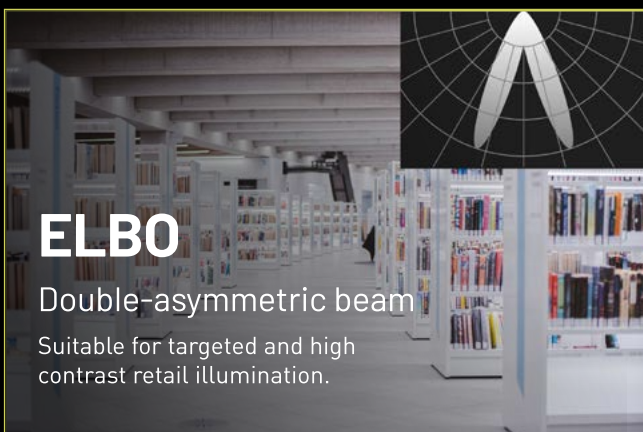
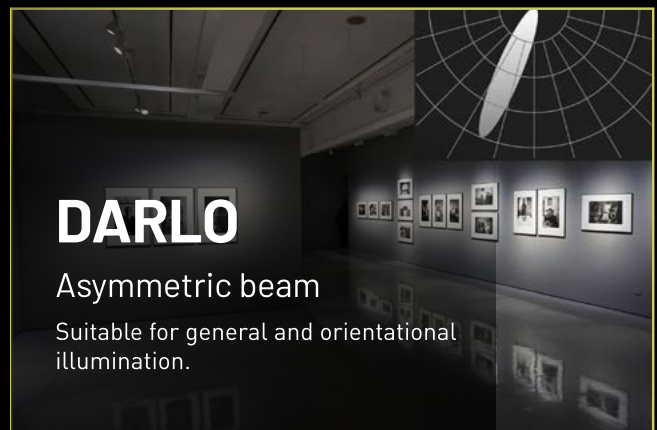
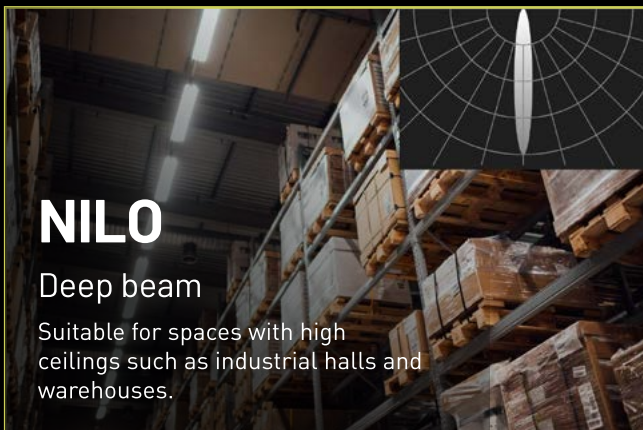
Customizable Positioning

Adjust relative optics-to-LED placement for precise light distribution

Precise light management

Easily achieve diverse lighting applications by simply altering our flat optics, tailored for versatile and precise light management.

Suggested applications





DOWNLOAD CENTRE

Contact us today!
Illuminate the possibilities with NANOPTIQS.

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