

MULTI LENS TECHNOLOGY



THE HISTORY OF MULTI-LENS TECHNOLOGY



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The 16th century witnessed first attempts on the way to permanent public lighting. From pitch-pan lamps and pinewood chip lamps via oil and gas lamps through to carbon arc lamps.



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In about 2000 TRILUX used enhanced computer programmes with 3D simulations to optimise the reflectors, resulting in freely shaped reflectors and greater efficiency. This lighting technology was miniaturised for LEDs, and efficiency increased again thanks to targeted light using more precise lenses.

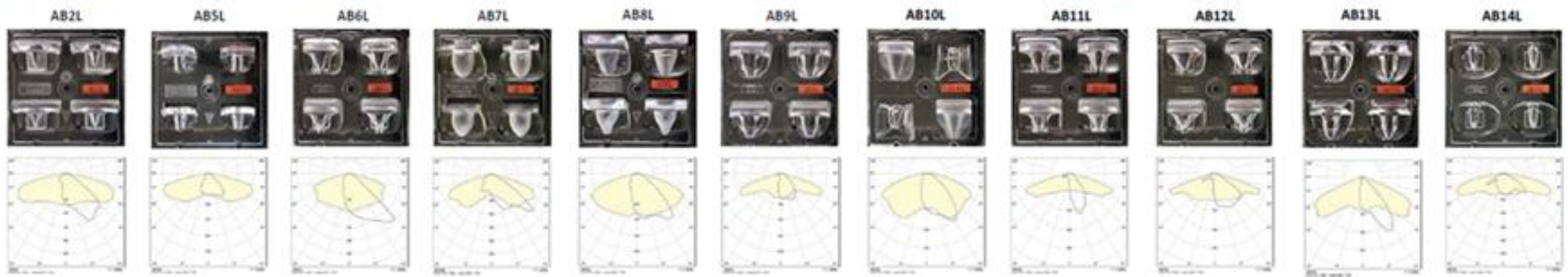
This finally led TRILUX to multi-lens technology (MLTIQ), which ensures optimal flexibility, light current, lighting technology and colour plus better energy-efficiency. Consequently, luminaires can be better adapted to customer wishes. A crucial step in the development of outdoor lighting.

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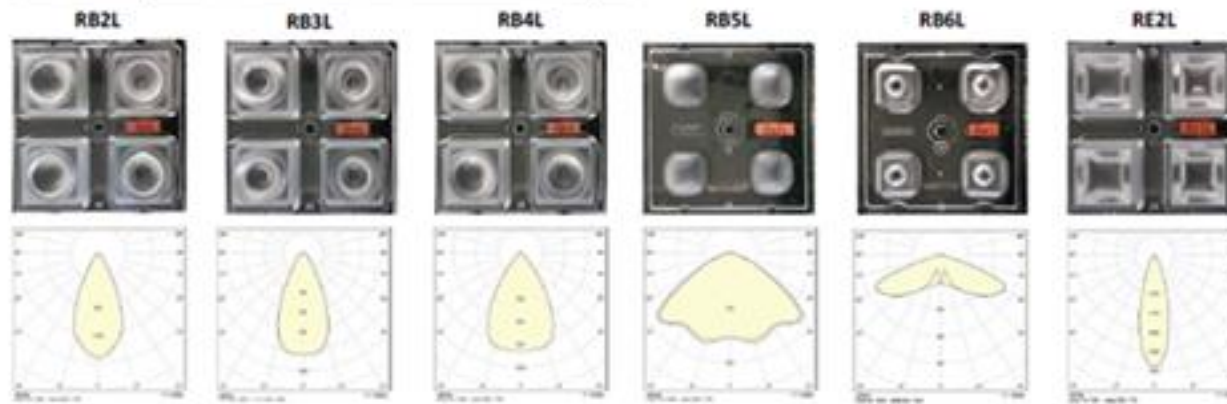


MULTI-LENS TECHNOLOGY (MLT IQ)

TRILUX has created a tool of impressive flexibility and quality: smart multi-lens technology (MLT IQ). Depending on lighting tasks the perfect luminaire can be easily configured from over 20 lenses with varied beam characteristics, which are installed onto four differently sized circuit boards, then integrated into one of the numerous TRILUX models.



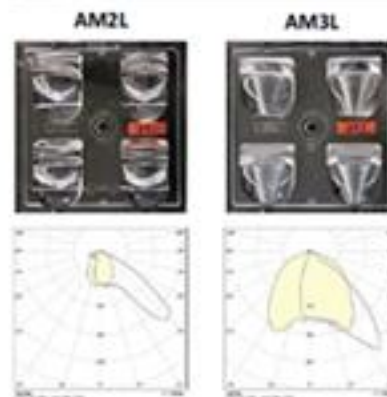
Rotationssymmetrisch strahlende Lichtverteilungen



Symmetrisch breitstrahlende Lichtverteilungen



Asymmetrisch mittelbreitstrahlende Lichtverteilungen



Extrem asymmetrisch strahlende Lichtverteilungen



MULTI-LENS TECHNOLOGY (MLT IQ)

Individual lighting design is not only a pivotal factor in ambitious architectural projects. In less complex cases there is no reason to forgo a tailored solution. Appearance aside, a luminaire's light colour, technology, energy consumption and beam distribution are key factors. Simultaneously, expectations regarding flexibility are constantly growing.

MULTI-LENS TECHNOLOGY (MLT IQ)

Firstly, there are LEDs in two light colours (3,000 K and 4,000 K) that can be used on four differently sized circuit boards.

Secondly, depending on requirements, different lenses are selected for street, amenity and floodlighting. The light distribution varies from asymmetric wide via symmetric through to rotationally symmetric wide. Thirdly, the resulting customised MLT lens is integrated into one of the numerous TRILUX series.

Since the lenses can be swivelled in 90 degree steps this further increases flexibility.

SOME EXAMPLES



SOME EXAMPLES



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