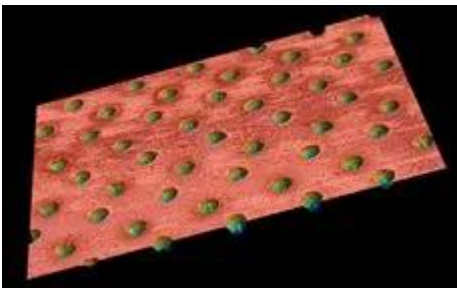


New development in generation of micro lenses to control LED light

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LED light is on the rise. This is because of the high efficiency, low energy consumption. One of the challenges is shaping the light beam according to customer needs with a minimum of lens material. We are investigating this aspect in collaboration with KU Leuven in the context of the 'Lighting industry 4.0' project.



By means of a matrix of microscopic lenses, the light can be distributed according to need. This lens structure can be made by injecting the lens material into a mould with the right microstructures. In order to achieve this, a mould is processed with a femtosecond laser.

This use of micro-lenses makes it possible to direct the light within a defined area, thus allowing a direct view of the source and avoiding reflections.

Authors