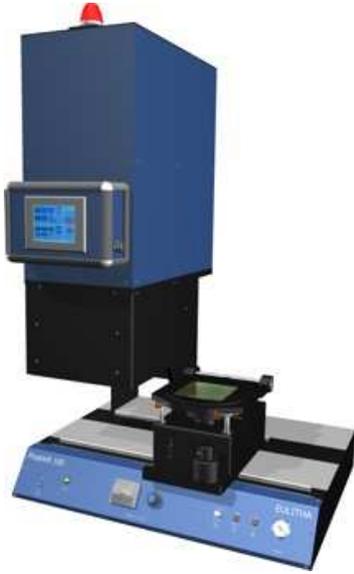


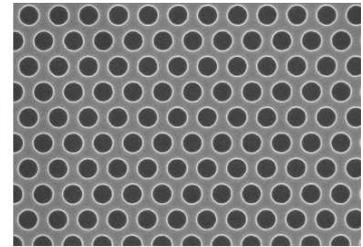
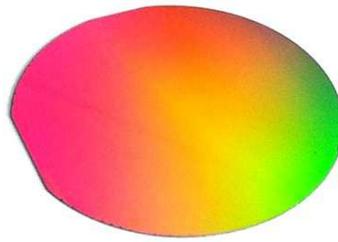
# Nanostructuring News

## PHABLER 100

Unique Photolithography Tool for High Resolution Patterning



- Resolution of a stepper
- Simplicity of a mask aligner
- Low-cost solution for photonic patterning



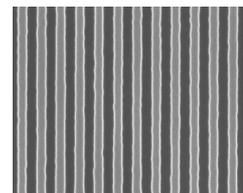
4" wafer fully patterned with array of holes on a hexagonal lattice (period 600nm)

The PhableR 100 tool provides unprecedented ability to print high resolution periodic structures in a low cost photolithography system. Eulitha has introduced the PhableR 100 system especially for research and development applications but also for pilot and low-volume production. The new exposure tool is based on the proprietary Displacement Talbot Lithography (DTL) technology developed by Eulitha. It enables periodic patterns such as linear gratings or 2D photonic-crystal type structures with hexagonal or square symmetry to be printed uniformly, even onto poor flatness substrates. The system has more than 10 times higher resolution than a conventional mask aligner, enabling feature sizes down to 150nm and below. Substrates up to 4" in diameter can be fully and seamlessly patterned in a single exposure. Potential application areas include LED light extraction patterns, patterned sapphire substrates, gratings for optical diffraction and spectroscopy and color filters.

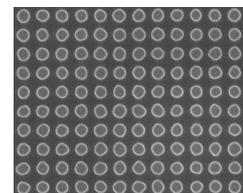
## New Nanoimprint Templates: Higher Resolution - Larger Area

Eulitha continues to expand its range of standard products to offer affordable templates

The newest addition to the standard set of patterns include linear and square arrays with a period of 150nm. Another new product is a 4" fully patterned template consisting of an array of holes on a 350nm-period square lattice. The new patterns are made with our unique PHABLE photolithography technology. Visit our website to see the full range of available templates.



75nm half-pitch lines



75nm half-pitch pillars

Description	Area
75nm half-pitch lines	30x30 mm <sup>2</sup>
75nm half-pitch pillars	30x30 mm <sup>2</sup>
175nm half pitch square array	100mm diameter