

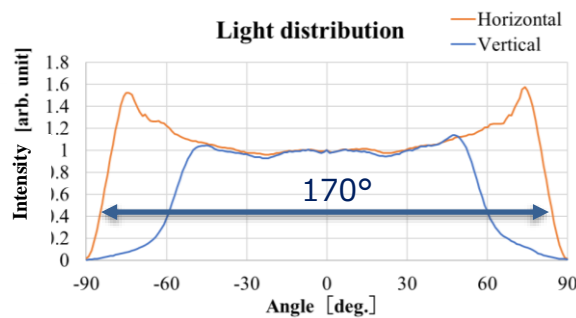
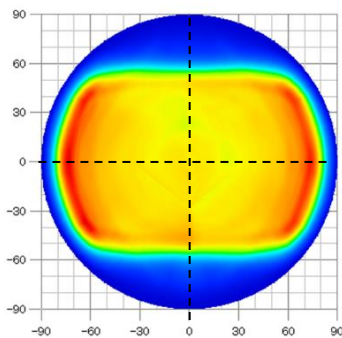
Super wide-angle Diffuser

Description

Super wide-angle diffusers use a Micro Lens Array (MLA) to achieve super wide-angle light distribution with a single element, contributing to miniaturization and cost reduction of IoT devices.

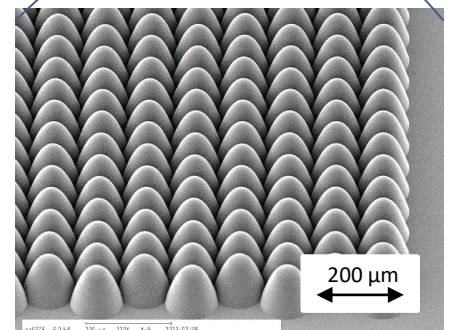
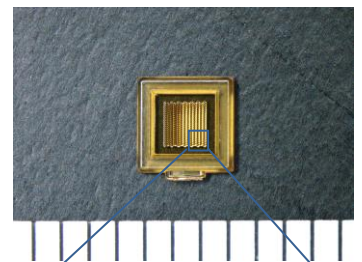
By simply combining a narrow divergence light source (such as a VCSEL) with our diffuser, it is possible to create a light source with super wide-angle light distribution of 170 degrees and high light efficiency of 80%.

Example: Prototype performance



Patent

WO2022168565A1
WO2022097576A1



Material	High index plastic
Dimension	> □3 mm
Thickness	0.5 mm
FOI	170 deg
Optical Efficiency	> 80%
Operating temperature	-40 °C to 125 °C

Application examples

- Driver monitoring system
- Autonomous Mobile Robots

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