

Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motorized Stages

Light Sources & Laser Safety

Index

Guide

Mirrors

Beamsplitters

Polarizers

Lenses

Multi-Element Optics

Filters

Prisms

Substrates/Windows

Optical Data

Maintenance

Selection Guide

Plano Convex Lenses

Plano Concave Lenses

Biconvex Lenses

Biconcave Lenses

Kit

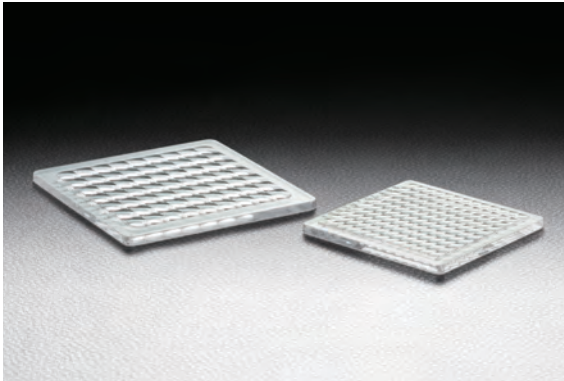
Reasonable Lens

Cylindrical

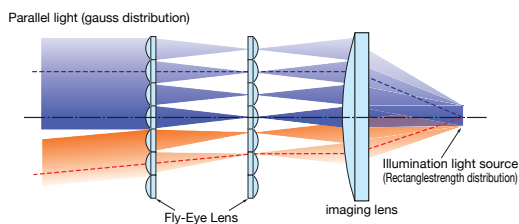
Others

Fly-Eye Lens is used when making illumination light of homogeneous brightness for projector and semiconductor manufacturing equipment. If used in fly-eye lenses of 2 pieces in pair, even strong diffusing light such as a lamp, it can be a light of rectangular intensity distribution.

- Two types are available for focal length of 42.07mm with partitions of 7×9 and 38.24mm with partition of 10×13 .
- With an anti-reflection coating, the incident light can be almost used as illumination light without loss of light.
- By using press molding technology to make the glass lens we have achieved both high performance and low cost.



Schematic



Specifications

Material	B270® or equivalent
Coating	Anti-reflection coating (dielectric multilayer coating)
Design Wavelength	400 – 700nm
Incident Angle	0° (Coating specification)
Focal Length Tolerance	±3%
Optical Axis Center Position Tolerance	±1.5mm

* B270® is a registered trademark of SCHOTT AG.

Guide

- ▶ We can provide a custom lens array suitable for your application. Please contact our Sales Division with your request and supply the number of divisions, the focal length, the size and the wavelength.
- ▶ We can also produce the optical systems using fly lens array.

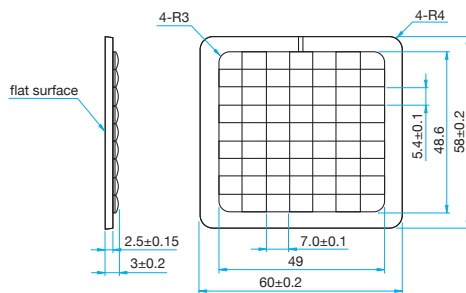
Attention

- ▶ Imaging lens is not included in the specification. In addition, fly-eye lens array is sold one by one.
- ▶ When used in a laser with high coherence, noise may be generated in the intensity distribution due to the diffraction by the border line of the lens.

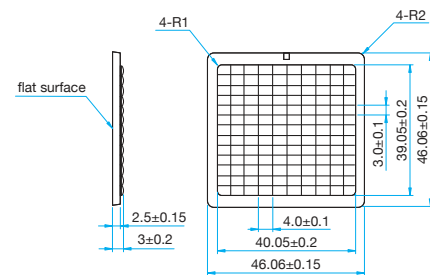
Outline Drawing

(in mm)

FEL-5860R03-42.07PM



FEL-46S03-38.24PM



Specifications

Part Number	Focal length [mm]	Radius of Curvature [mm]
FEL-5860R03-42.07PM	42.07	22.0
FEL-46S03-38.24PM	38.24	20.0