

# Fly-Eye Lens

FEL



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Plano Convex Lenses Plano Concave

Lenses Biconvex Lenses

**Biconcave Lenses** 

Kit

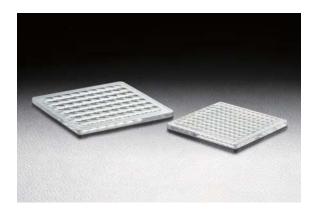
Reasonable Lens

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.



Specifications		
Material	B270 <sup>®</sup> 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	

<sup>\*</sup> B270® is a registered trademark of SCHOTT AG.

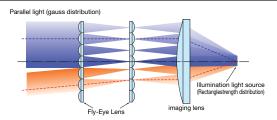
#### Guide

- ▶ 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

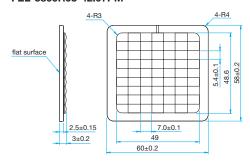
- ▶ Imaging lens is not included in the specification. In addition, fly-eye lens array is sold one by one.
- ▶ When used in a laser with high coherence, noise may be generated in the intensity distribution due to the diffraction by the border line of the lens

### Schematic

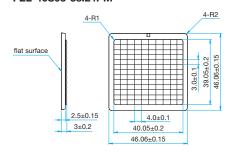


# Outline Drawing

# 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	

