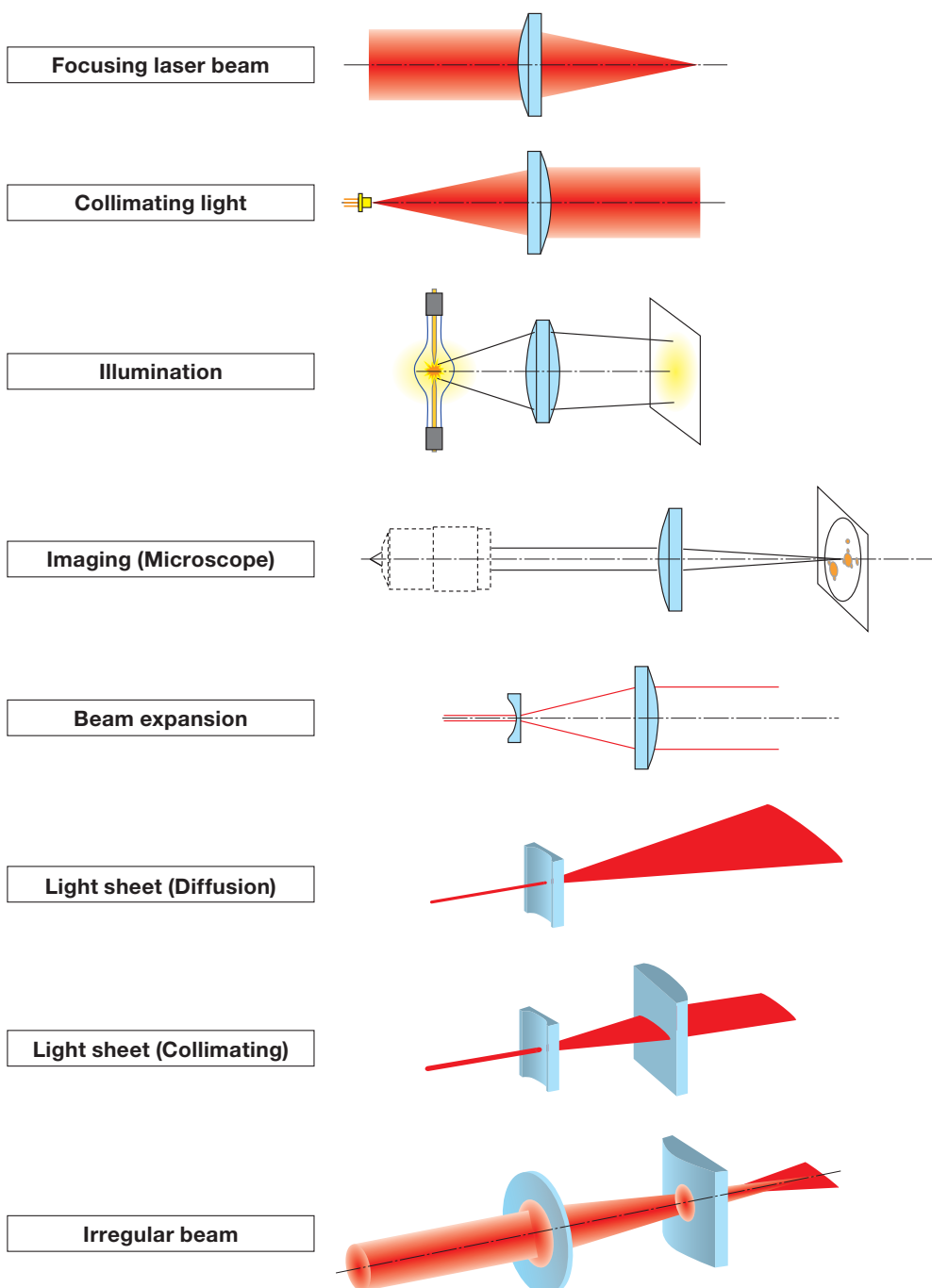


Lenses Selection Guide

These Lenses listed here are a single lens polished to a spherical shape different to multi-element lens for cameras or telescopes. The performance is reduced to minimum with a wide range of applications at low cost.

Application	Type of Lens	Features	Relevance information
Focus · Image formation			
Focused laser beam	Plano Convex Lenses	Low cost. Small spot size.	High performance product → Achromatic Lenses
Collimated light		Spherical aberration is small.	High performance product → Achromatic Lenses
Illumination	Biconvex Lenses Plano Convex Lenses	Compact. High numerical aperture.	High numerical aperture → Aspheric Lenses
Image formation (Microscope)	Biconvex Lenses, Plano Convex Lenses	Low cost. Observation of a narrow field of view.	High performance product → Achromatic Lenses, Camera Lenses
Beam Shaping Diffusers			
Beam expansion	Plano Convex Lenses + Plano Concave Lenses	Low cost. Low magnification.	High performance products → Beam Expanders
Light sheet	Cylindrical Lenses	Low cost. Diverging beam uniaxial.	
Irregular beam	Plano Convex Lenses + Cylindrical Lenses	Varying the Beam Diameter and, Aspect ratio, Beam Divergence Aspect ratio.	



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