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## KO | BRINGING QUALITY INTO FOCUS

### Planoconcave Lenses for Optical Systems

**Knight Optical** can offer [Planoconcave Lenses](#) for use within Optical Systems.

We supply a range of Planoconcave lenses for a range of applications. All individually QA checked and metrology tested for quality to ensure parts meet customer specification. Supplied in a range of sizes and shapes with custom coatings tailored to meet your individual applications.

Knight Optical supply precision optical components to customers with Optical systems. Planoconcave lenses are simple lenses with a plane surface and a concave surface and form a moderate quality image close to the axis. Concave lenses have a broad range of applications including, focussing and control of laser beams, moderate quality imaging and other optical instruments.

In a multi-element optical system they reduce the power of the system. Used on their own they form a diverging cone or virtual image. A typical use for concave lenses would be in a beam expander.

#### Typical specs:

<b>Material:</b>	N-BK7 or equivalent, UV Fused Silica, SF11 or equivalent
<b>Dimensional Tolerances:</b>	+/- 0.1mm
<b>Centering:</b>	< 3 arcminutes
<b>Surface Quality:</b>	< 40-20 Scratch/Dig
<b>Surface Figure:</b>	< 5(1) @ 633nm
<b>Coating:</b>	Antireflective coatings for application bandwidth (if required)

**All our Planoconcave Lenses are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory**, using our Zygo Verifire Interferometer and Trioptics OptiSpheric/OptiCentric. This allows us to work to the highest [QA standards](#) and meet the tolerance specifications on these **precision components**.

[Contact our technical sales team](#) to discover how Knight Optical's high quality Planoconcave Lenses and superior service can improve your instrumentation and supply chain experience.

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