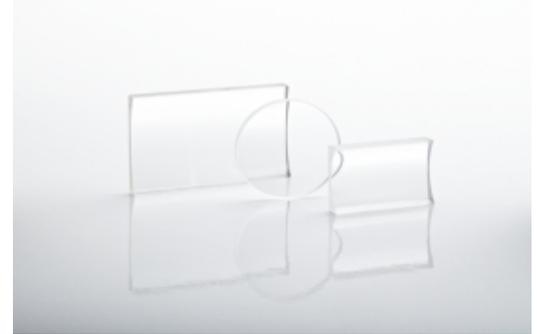


# CAPABILITIES

## Cylindrical lenses

Cylindrical lenses are designed to focus light into a straight line, rather than to a single point. As the name suggests, the lens surface has a cylindrical shape rather than the usual spherical which allows for one dimensional shaping of light along a line.



Cylindrical lenses are typically either plano-concave or plano-convex, designed to expand and focus light respectively, and can be supplied in either diameter or rectangular shape for ease of mounting.

Cylindrical lenses are often used to change the profile of laser beams to correct for astigmatism and ellipticity in diode lasers or to generate lines from single mode lasers.

## Custom capabilities

<b>Dimensions:</b>	3mm to 200mm+
<b>Focal length:</b>	3mm to 1000mm+
<b>Centration:</b>	< 3 arcseconds
<b>Surface figure:</b>	< 0.1 fringes
<b>Scratch/dig:</b>	< 10:5
<b>Coating options:</b>	AR coated for UV/VIS/NIR
<b>Material options:</b>	Schott glass or equivalent

### Notes:

All products are tested in our state of the art metrology laboratory by our highly trained technicians to ensure compliance with the specification. Parts are then sent to our QA team to be cleaned and checked for surface imperfections before dispatch.

Please contact our technical sales team on (+44) 1622 849 444 to discuss your custom cylindrical lens requirements and discover how Knight Optical can help improve your supply chain experience. Alternatively, email us your requirements by clicking on the links below.



**EU:** [info@knightoptical.co.uk](mailto:info@knightoptical.co.uk)  
**US:** [usasales@knightoptical.com](mailto:usasales@knightoptical.com)

