

Fresnel lenses consist of a flat surface with interspaced, concentric steps where each one corresponds to the surface of a conventional lens. Thereby this acts as a refractive surface, much like a prism. This gives the Fresnel lens a common focal length more equivalent to a traditional lens, but with a fraction of the thickness.

Knight Optical offer custom Fresnel lenses up to 1500mm aperture and to be used for a range of applications including solar collectors and similar condenser systems. Our lenses are custom manufactured to your specifications in either PMMA acrylic or glass. Fresnel lenses can be manufactured as either a single lens or as an array on a single substrate.



## Custom Capabilities

<b>Aperture</b>	5mm to 1500mm+
<b>Focal Length</b>	3mm to 1500mm+
<b>Thickness</b>	1.5mm+
<b>Facet Width</b>	0.1mm+
<b>Coating Options</b>	AR Coated for UV/VIS/NIR
<b>Material</b>	Schott Glass or equivalent, PMMA

To keep up with the latest scientific developments, we guarantee that our in-house Metrology and Quality Assurance departments will not only deliver premium, individually inspected and tested optical components to your business, but should there be a need, can deliver bespoke optics designed to your exact specifications.

For more information on any of our optical services, to discuss your requirements or place a direct order with one of our technical sales team, please contact Knight Optical by Email: [info@knightoptical.com](mailto:info@knightoptical.com) or call direct on +44 1622 859 444 (UK, EUR or ROW) +1 401 583 7846 (USA & Canada).