



Discover how we can improve your
instrumentation and supply chain
experience today!

KO | BRINGING QUALITY INTO FOCUS

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Moulded Optics for IPL Ceramic Reflectors

Knight Optical offers a range of precision optical components for use in IPL ([Intense Pulsed Light](#)) applications. The most common usage of IPL systems are typically used as photo epilators. This is harnessing specific wavelengths of a xenon flash lamp (typically 600-1200nm), which is pulsed from an applicator and passed through a conductive gel which is applied to the patient's skin. These pulses of light subsequently penetrates the patient's skin and are absorbed by the skin pigment. This excessive thermal energy causes the hair follicle to eventually drop out.

Knight Optical offers a range of precision optical components for use in IPL (Intense Pulsed Light) applications. The most common usage of IPL systems are typically used as photo epilators. Custom Ceramic Reflectors are a key component for this application. The xenon flash lamp which are typically used emit light in 360 degrees. However utilising ceramic reflectors which are light reflectors with a U channel means that light which would normally be wasted i.e. shining backwards is now refocused down into the filters and light guides.

Knight Optical provides ceramic reflectors which are typically moulded from alumina. This choice of material is down to its ability to withstand thermal stresses and high reflectivity values.

All of Knight Optical's ceramic reflectors are custom produced, ensuring all products are bespoke and fully compliant to the customer's requirements.

Typical specs:

Material: [Alumina](#)
Dimensions: +/-0.25 mm
Surface quality: <60-40 scratch/dig

All our Ceramic Reflectors are checked for quality in our state-of-the-art Metrology laboratory using our Starrett Video Imaging Device, allowing us to work to the highest [QA standards](#) and meet the tolerance specifications on these **precision components**.

to discover how Knight Optical's high quality ceramic reflectors and superior service can improve your instrumentation and supply chain experience.

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