



[www.knightoptical.com](http://www.knightoptical.com) | Tel: +1 401 583 7846 | Fax: +1 401 583 7851  
Knight Optical (USA) LLC | 1130 Ten Rod Road, Suite D102 | North Kingsdown RI 02852 USA  
[www.knightoptical.com](http://www.knightoptical.com) | Tel: +44 (0) 1622 859444 | Fax +44 (0) 1622 859555  
Knight Optical (UK) Ltd | Roebuck Business Park | Harrietsham | Kent ME17 1SB UK

## KO | BRINGING QUALITY INTO FOCUS

### Flashed Opal Diffusers for use in Photography

**Knight Optical** can offer [Flashed Opal Diffusers](#) for use within Photography.

We supply a range of Flashed Opal Diffusers 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 within photography and entertainment industries. Flashed Opal Diffusers alter the divergence of incident light. Opal diffusers are typically used in to diffuse the flash from cameras to prevent photos with harsh light and hard shadows to soften and improve the appeal of the image. Also used in traditional imaging techniques for the control of illumination. Opal diffusers are coated with a white opal coating offering a near lambertian reflectance. The opal coating diffuses the light with the brightness of the diffuser being independent of the viewing angle. Such wide scattering angles will inevitably reduce brightness, however opal diffusers can be very useful in light boxes, illumination systems and where intense diffusions is needed.

Diffusers are also used in lightning systems to prevent glare from computer screens, the manufacture of lightboxes for advertising, viewing x-rays, and other applications.

Although this material has been discontinued, Knight Optical still hold vast amounts of stock material.

#### Typical specs:

<b>Material:</b>	White-flashed opal
<b>Shape:</b>	Square Diffusers, Circular Diffusers
<b>Dimensional Tolerances:</b>	+/- 0.25mm Custom flashed opal diffusers can be supplied in large sheets of 1400x1600m, and special larger sizes on request.

**All our Flashed Opal Diffusers are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory.** 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 Flashed Opal Diffusers and superior service can improve your instrumentation and supply chain experience.

UK, Europe, Asia & RoW: E-Mail [info@knightoptical.co.uk](mailto:info@knightoptical.co.uk) Tel +44 (0)1622 859444

USA & Canada: E-Mail [usales@knightoptical.com](mailto:usales@knightoptical.com) Tel +001 401-583-7846

- [View our QA and metrology information](#)
- [Watch our Corporate Video](#)
- [View Our Corporate Brochure](#)
- [Request a catalogue](#)