



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

KO | BRINGING QUALITY INTO FOCUS

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Knight Optical's Colour Glass Filters for LED Lighting.

Knight Optical has successfully launched a range of [Stock Colour Glass Filters](#), for use within [Entertainment and Design Industry](#).

Within the LED Lighting Industry, Colour Glass Filters can be used as downlights within a stage production by filtering the different visible wavelengths and filter out unwanted light from a white light source to provide desired coloured light that is perceived by an audience to be a highly saturated or intense colour.

This is just what you need to help set the atmosphere for whatever event you're planning.

So how do they work? Well I'll let you in on a little secret... by injecting a coloured dye into the glass substrate, the dye gives the filter its colour and spectral performance. Due to this these filters are simple, stable optics that are cheap and easy to cut into custom shapes and sizes for your performance.

We hold a massive inventory of [Bandpass](#), [Long pass](#), [Short pass](#), and [Mounted Colour Glass Filters](#).

- Stock sizes of 25mm diameter; and 50x50mm squares x 1mmthk with larger sizes of 300x300mm available on most of our filters as a custom option.
- Custom shapes and sizes at short notice, in most cases turned around within 1-2 weeks.
- Alternative thickness substrates available.

Typical specs:

| | |
|--------------------------------|---------------------|
| Material: | Schott Colour Glass |
| Diameter Tolerance: | +0.0/-0.20 mm |
| Length/Width Tolerance: | ±0.20mm |
| Thickness Tolerance: | ±0.20mm |
| Transmission: | Tmax typically=95% |

All our Colour Glass Filters are fully inspected on their quality in our ISO 9001 certified, state-of-the-art Metrology laboratory, using our Varian Cary 5000 spectrophotometers which are fitted with a UMA. 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 Colour Glass Filters and superior service can help you through the processes of realising your custom filters.

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