



Solar Simulation Systems

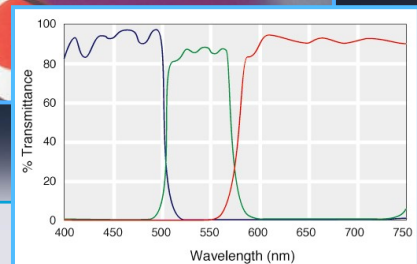
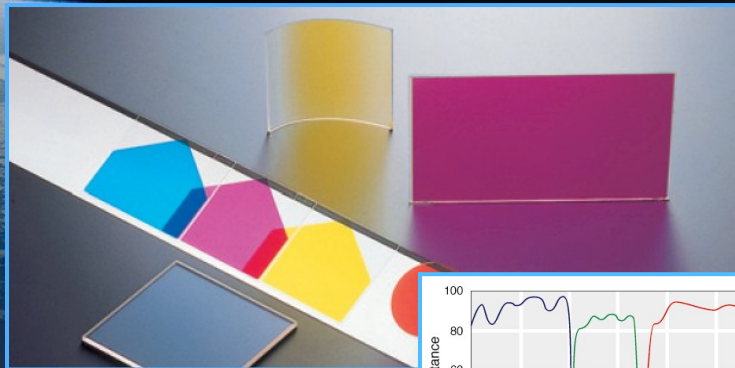
employing light technology to create a safe, comfortable & sustainable environment

Optical Filters and Mirrors

Spectral Correction to Exceed IEC Class A Compliance

Custom Filters for Band-gap Testing

UV Cold Filters



Features & Benefits

- Proprietary Design and Manufacturing: Ensures properly integrated optical (lamp, filter, and mirror) systems
- Custom QE Matching Design Capability: Provides ability to match response to a specified bandpass significantly expanding system evaluation potential

EYE Lighting / Iwasaki Electric designs and manufactures filtering systems, along with the lighting source (lamp), for our solar simulation equipment. This integrated approach is unique in the marketplace. Any solar simulation system is only as good as the lighting system. Our solar simulation products are designed from inception around the proper lighting system to ensure outstanding, yet efficient, spectral performance, irradiation uniformity, and time stability.

Our in-house filter design and manufacturing expertise is built around decades of satisfying customer specific requirements. Our state of the art vapor deposition systems allow us to efficiently develop and produce optical filter systems that deliver unmatched performance and uniformity.

ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 Certified; ISO 17025:2005 Accredited



**EYE LIGHTING INTERNATIONAL
OF NORTH AMERICA, INC.**
A SUBSIDIARY OF IWASAKI ELECTRIC CO., LTD.



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FILTERING AND MIRRORS

Whether your solar simulation lighting need is for true ASTM / IEC Class A spectral irradiation conformance or to investigate the effects of a specific electromagnetic bandwidth, EYE Lighting / Iwasaki can provide a system tailored for your specific needs. Even with custom designed lighting sources, special filtering or mirrors are sometimes required to meet specific application requirements.

EYE Lighting / Iwasaki proprietary optical filter technology controls the spectral output to adjust a lighting source for application specific spectral design wavelengths. EYE Lighting / Iwasaki filter technology helps ensure that our solar simulation systems meet, or exceed, your performance and durability requirements. EYE / Iwasaki integrated optics systems are the reason our solar simulation systems are unmatched in price/performance.

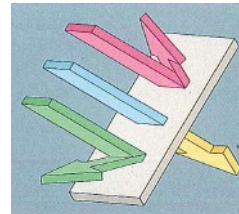


Iwasaki filter development lab

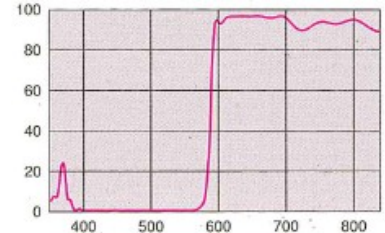
BAND PASS FILTERS

Dichroic bandpass color filters transmit light of a specific color wave band and reflect complementary colors. These filters provide high color resolution and their high temperature stability protects against aging.

Yellow Bandpass Filter



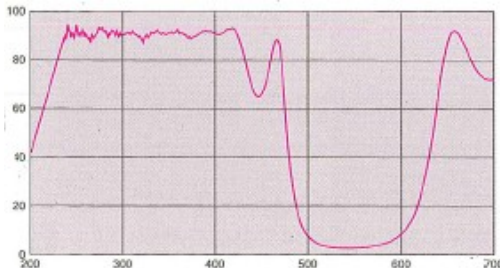
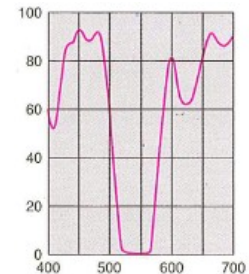
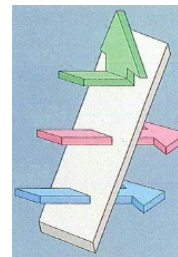
Red Bandpass Filter



DICHROIC MIRRORS

Dichroic color mirrors are designed to reflect light of a specific color but pass all complementary colors. They are designed to be positioned at an angle to the incoming light beam. Multi-layer designs produce highly efficient mirrors that are extremely selective and have very low residual optical absorption loss. Iwasaki's sputtering deposition process can produce very dense filter coatings with excellent optical and mechanical stability. Typically applications include LCD projector lighting systems.

Typical Green Dichroic Mirror Characteristics



UV COLD FILTERS

These filters transmit UV energy (250nm to 400nm) while reflecting the visible and infrared light spectrum. They are used in the design of Iwasaki UV hardening systems. They are often used in combination with a UV Cold Mirror Filters. This combination dramatically reduces harmful product heating while efficiently irradiating the product with the required UV energy.

EYE Lighting/Iwasaki solar lighting experience provides the expertise to assist you in the development of solar simulation systems specific to your application requirements. We welcome the opportunity to work with you to solve your application requirements.

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