

# Filtering Light Sources



## Special FX Lighting Can Apply Correction Filters to Light Sources

Color correcting LED light sources can trim the blue/green spectrum, creating more pleasant skin tones and a warmer, more inviting atmosphere. The coating technicians at Special FX Lighting have instrumentation that can measure the light source the customer is using and correct the kelvin temperature to the range desired. We can warm any kelvin temperature to the specified temperature.

We can increase color temperature by adding a blue filter to the light source. That filtration reduces lumens more than warming light sources, so additional fixtures may need to be added to the project in order to get the amount of light required.

We can filter one light source to match another light source. If more than one manufacturer's lighting fixture is specified on a job and both are advertised to be the same color temperature, there may be a visual difference in the rendered light. We can homogenize the atmosphere by filtering to make the rendered output the same.

We can add color correction to neutral density. This will correct the color temperature and also reduces lumen output.

Modern LED lighting trends to the bluer end of the color spectrum. Recent studies have looked at the impacts of artificial blue light on health and the environment. It negatively affects circadian rhythm in humans, plant growth, migration, predation, and reproduction and communication among animals and insects.

Light pollution is becoming an increasing concern as cities light their communities after dark. Dark Sky Lighting ordinances are written to reduce the impact of artificial illumination of ecosystems, human well-being, and our ability to view the night sky. Ways to mitigate artificial illumination include shielding direct light downward and filtering that adjust kelvin temperatures and reduce brightness while preserving safety. Special FX Lighting works directly with manufacturers and distributors to provide filters that meet the differing dark sky ordinances in all areas worldwide.

**Substrates:** We can apply our color correcting filters on the same substrates as our other products; glass, plastic, poly sleeves, light bulbs, XFilm or the customer's supplied material.

**Color:** Specify desired color correction using standard theatrical gel media or by desired kelvin temperature or by nanometer.

Project:	Contact:
Substrate:	Size:
Matched Color:	Location:
Notes:	



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