

SCREEN MATERIAL EVALUATION by Luke Drew ISF Certified Calibrator

To compare each screen evenly, a spectroradiometer is set in one fixed spot as well as a light source which has a colour rating of 90CRI and close to a D65 light source. Also used was a set of reference grey munsell cards for measurements of the bulb for a reference reading to start with.

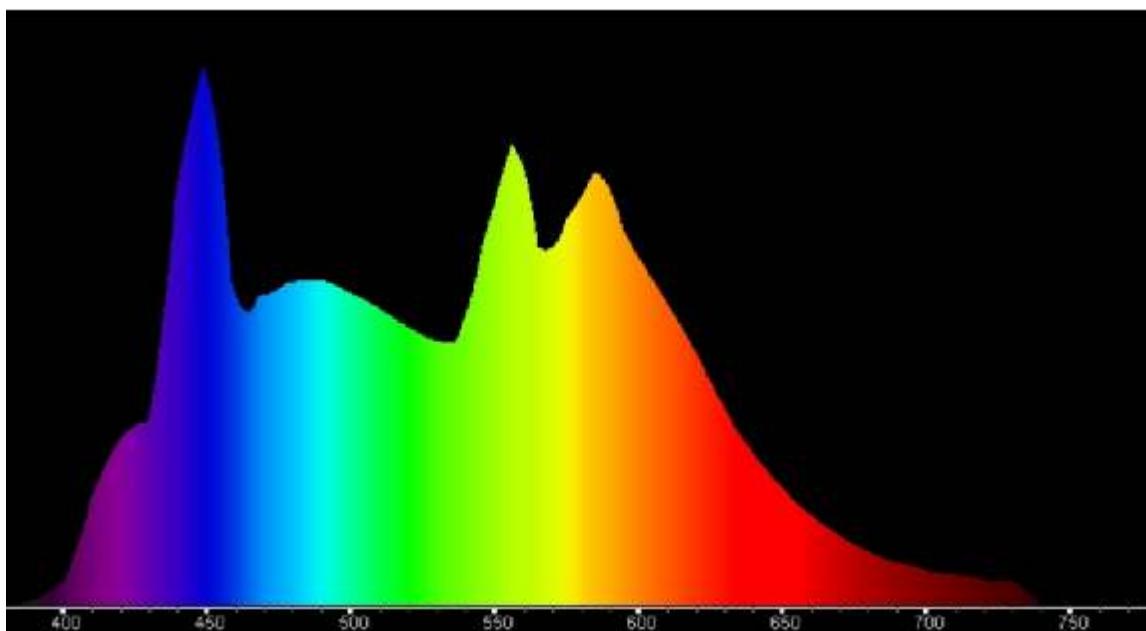
The two screens tested can be used with a projector and calibrated to match one another but what has been set out, is to see which screen has the most neutral colour response compared with what the light source itself outputs.

In the following pages, there's a picture of the spectral reading from each of the two screens and also x,y and Y information that's been measured from each piece of material.

To start things off, here are the results which were read off a grey munsell grey card for reference.

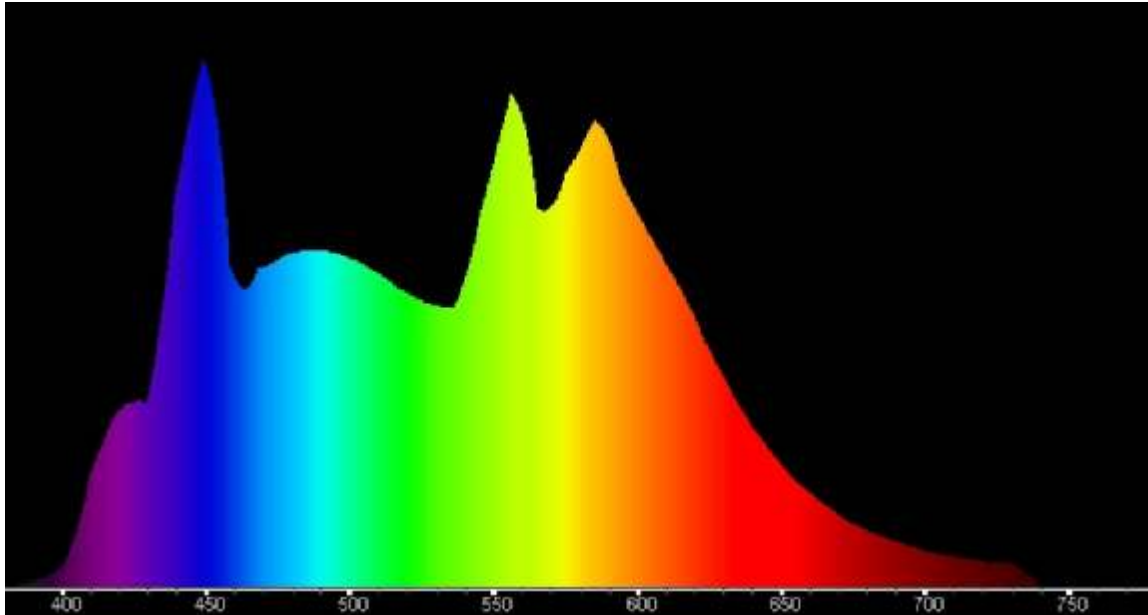


Grey munsell card





Studiotek130



The x,y & Y values are as follows from the Studiotek 130 (non perforated vinyl)

x: 0.3146

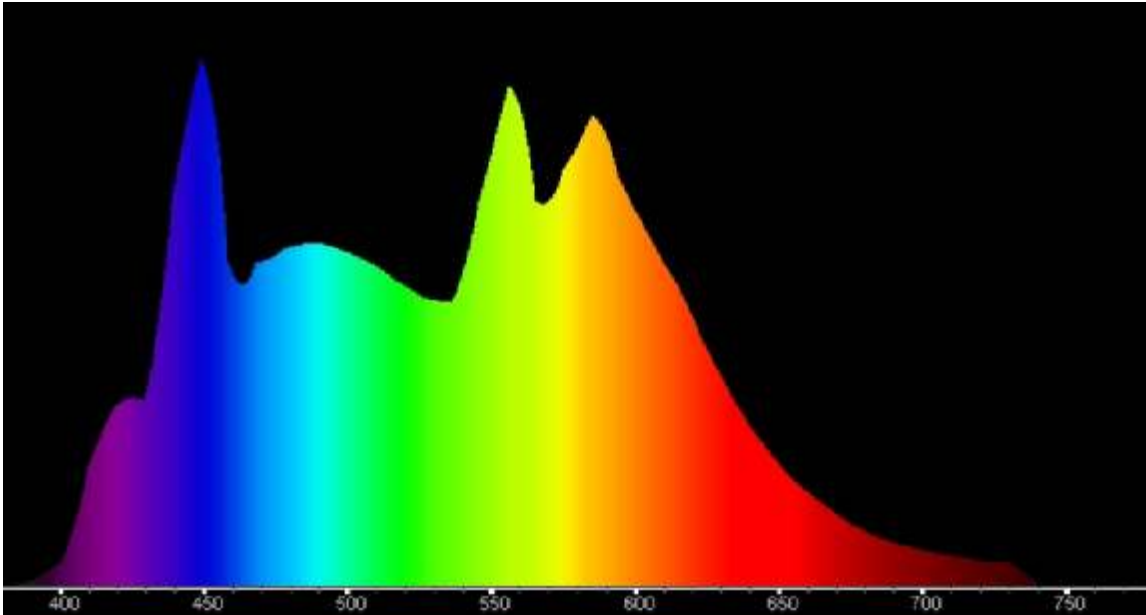
y: 0.3344

Y: 64.46 (ftL)

Out of all the screen materials I have tested in the past, the Stewart Studiotek 130 & Greyhawk RS were the most accurate materials tested which has been noted many times and of course with conjunction of Joe Kane involved, it doesn't surprise me one bit. It really does live up to it's hype with an excellent optical coating for colour accuracy. It meets all expectations, though the one gripe I have with the screen is the optical coating at times can seem “sparkly” in appearance, though it's not a big issue. These measurements are testament to the strict quality control and build quality of their products. They are also the most expensive screens in the world.



Acoustic Vision



The x,y & Y values are as follows from your Acoustic Vision fabric.

x: 0.3145
y: 0.3351
Y: 55.44 (ftL)

Oz Theatre Screens Acoustic Vision material was excellent with regards to colour accuracy and compared favourably to the Studiotek 130 to my surprise. Obviously there is a gain trade off due to the woven fabric to pass audio through the material, but the fabric still provided a positive gain due it's vinyl coated top surface, which is an excellent result.

The x and y measurements are very close to the Studiotek 130 fabric, which as you know is an ISF certified product. For professional monitors, the allowed deviation from the standard is +/- 0.004 along the x and y axis. I do not know the exact requirements of the ISF for certification on screen materials, but with these measurements being very close, I would say this fabric could meet the requirements for ISF certification. Whether you choose to go down that avenue is up to you, as I am not sure of the exact costs involved. But if you did get this certified, it would be an Australian first.

I cannot comment on the audio quality of this fabric as I did not measure it for audio capability. The x measurement deviates -0.0001 from the x measurement of Studitek130. The y measurement deviates +0.006 from the y measurement of Studiotek130. The x measurement deviates -0.0004 from the x measurement of the grey munsell card. The y measurement deviates +0.0013 from the y measurement of the grey munsell card.