

LED Intensity Measurement (Case Study)

Challenge

In a recent application our customers needed to test LEDs in automated test systems. The test system consisted of an array of 120 light sources and LEDs. The test system operated in a high intensity mode called "step mode" and a low intensity mode called "full mode".

When the LEDs were in "step mode" their measurement system would activate.

In order to commission this, several dummy filters were used to reduce the LED intensity to a level acceptable to the test system. However, when operated in "full mode", the activation of the control timing system caused instability in the measurement of LED output and intensity.

Solution

The solution was to use the Texas LED Analyser in conjunction with Texas Optical

Optics. The Texas LED Analyser has an extremely wide dynamic range which allows it to test LEDs from the dimmest LED's to the brightest LED's without the use of any external optical attenuators or filters (at least 200 times). The Texas ODF LED Analyser was connected together in a daisy chain configuration in order to test 120 LEDs simultaneously.

In this particular case the customer opted to use the XP chromaticity and intensity

module from the Texas LED Analyser. Texas provided a comprehensive table of reference wavelengths which were used to adjust the Texas LED Analyser after it was fixed in the test

system. This allowed that each filter was measuring the correct intensity and colour. By using the most advanced current technology it was possible to achieve a repeatability of $\pm 0.001\%$ in CIE X and Y chromaticity and a repeatability of $\pm 1\%$ in terms of intensity measurements with a linear dynamic range of 10 and full scale.

One of the biggest challenges when setting up this test system was determining the test filter to use. It was decided that the best method was to test a large quantity of PCBs and using the TexasOptics to calculate the mean and standard deviation of each filter position. Two filters were determined using the mean values as measured by the Texas LED Analyser and the MinMax techniques were derived from the relevant LED data sheet.

In order to ensure that the LEDs were chromaticity stable the LEDs were processed in a fixed test before any measurement was made.

Result

Using the TexasOptics reference it was then possible to adjust the mean intensity value of each filter to compensate for any fixture variations. A golden thread chromaticity board was used and the measured value for each filter was stored. This board was then used to verify the test filter each day to ensure that there was no drift in the test results.

After drying of the test surface the test time was approximately 1.5 seconds for the high intensity test and 1.0 seconds for the low intensity test of all 120 LEDs. The customer reported a near theoretical response from the Texas LED Analyser in terms of both colour and intensity measurement. See Texas Data Sheet

<http://www.texasoptics.com>

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