

LED Intensity Measurement (Case Study)

Challenge

In a recent application our customers needed to test LEDs in automated test systems. The test system required an accuracy of 100 light percent for LEDs. The test system operated in a high intensity mode called "high mode" and a low intensity mode called "low mode".

When the LEDs were in "high 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 "low mode", the activation of the control during filter change increased intensity in the measurement of LED output and intensity.

Solution

The customer used the Flux LED Analyser in conjunction with Flux Optical

Modules. The Flux LED Analyser has an extremely wide dynamic range which allows it to test LEDs from the dimmest LED to the brightest LED, without the use of any external optical attenuators or filters (at least 200 times). The Flux DMF LED Analyser was connected together in a daisy chain configuration in order to test 100 LEDs simultaneously.

In this particular case the customer opted to use the XP chrominance and luminance camera from the Flux LED Analyser. Flux provided a comprehensive suite of software tools which allowed us adjust the Flux LED Analyser after it was fitted to the test fixture. This allowed that each filter was measuring the correct intensity and colour. By using the most advanced camera technology it was possible to achieve a repeatability of $\pm 0.001\%$ in CIE X and Y chrominance and a repeatability of $\pm 1\%$ in terms of intensity measurements with a linear dynamic range of 10 and 1000.

One of the biggest challenges when setting up this test fixture 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 measurements to calculate the mean and standard deviation of each filter position. Two filters were determined using the mean values as measured by the Flux LED Analyser and the MinMax software were derived from the relevant LED data sheet.

In order to ensure that the LEDs were accurately stable the LEDs were pre-warmed for a fixed time before any measurement was made.

Result

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

After drying of the test fixture the test time was approximately 1.5 seconds for the high intensity test and 1.0 seconds for the low intensity test of all 100 LEDs. The customer reported a near theoretical response from the Flux LED Analyser in terms of both colour and intensity measurement. See Flux Case Study below.

<http://www.fluxim.com>

Led Intensity Measurement Case Study

John Bechhoefer



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