

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

Studio. 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 120 LEDs simultaneously.

In this particular case the customer opted to use the X1 chrominance and intensity

outputs from the Flux LED Analyser. Flux provided a configuration table of software tools which allowed to adjust the Flux 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 colour 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 relation between it and full mode.

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 measurement 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 chrominance stable the LEDs were processed in a fixed test before any measurement was made.

Result

Using the Flux balancing software it was then possible to adjust the mean intensity value of each filter to compensate for any fixture variations. A golden thread chrominance board was created 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 setting up the test system 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 new operational program from the Flux LED Analyser in terms of both colour and intensity measurement. See Flux Case Study below.

<http://www.flux.com>

Led Intensity Measurement Case Study

Airong Chen, Dan Frangopol, Xin Ruan

A red circular graphic with a gradient, appearing as a semi-circle on the right side of the slide, partially overlapping the grey bar.

Led Intensity Measurement Case Study:

Unveiling the Magic of Words: A Report on "**Led Intensity Measurement Case Study**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Led Intensity Measurement Case Study**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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