

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 "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 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

Modules. 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 OMF 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 chrominance and luminance

module from the Texas LED Analyser. Texas provided a comprehensive table of reference

data which was used to adjust the Texas LED Analyser after it was fitted to 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 ± 0.0001 in CIE X and Y chrominance and a repeatability of $\pm 1%$ in terms of intensity measurements with a linear dynamic range of 1 and 1000.

One of the biggest challenges when setting up this test system was determining the test limits 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 limits were determined using the mean values as measured by the Texas LED Analyser and the MIN/Max reference were derived from the relevant LED data sheet.

In order to ensure that the LEDs were thermally stable the LEDs were prewarmed for a fixed time before any measurement was made.

Result

Using the Texas measuring reference 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 filters each day to ensure that there was no drift in the test results.

After drying of the test reference 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.texasinstruments.com>

Led Intensity Measurement Case Study

Adrian Belcham



Led Intensity Measurement Case Study:

Led Intensity Measurement Case Study Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has become more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Led Intensity Measurement Case Study**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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