

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 testbed lights 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 ultra-highly sensitive

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 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 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 references 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 balancing 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 filters 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.texasoptical.com>

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Table of Contents Led Intensity Measurement Case Study

1. Understanding the eBook Led Intensity Measurement Case Study
 - The Rise of Digital Reading Led Intensity Measurement Case Study
 - Advantages of eBooks Over Traditional Books
2. Identifying Led Intensity Measurement Case Study
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Led Intensity Measurement Case Study
 - User-Friendly Interface
4. Exploring eBook Recommendations from Led Intensity Measurement Case Study
 - Personalized Recommendations
 - Led Intensity Measurement Case Study User Reviews and Ratings
 - Led Intensity Measurement Case Study and Bestseller Lists

5. Accessing Led Intensity Measurement Case Study Free and Paid eBooks
 - Led Intensity Measurement Case Study Public Domain eBooks
 - Led Intensity Measurement Case Study eBook Subscription Services
 - Led Intensity Measurement Case Study Budget-Friendly Options
6. Navigating Led Intensity Measurement Case Study eBook Formats
 - ePub, PDF, MOBI, and More
 - Led Intensity Measurement Case Study Compatibility with Devices
 - Led Intensity Measurement Case Study Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Led Intensity Measurement Case Study
 - Highlighting and Note-Taking Led Intensity Measurement Case Study
 - Interactive Elements Led Intensity Measurement Case Study
8. Staying Engaged with Led Intensity Measurement Case Study
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Led Intensity Measurement Case Study
9. Balancing eBooks and Physical Books Led Intensity Measurement Case Study
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Led Intensity Measurement Case Study
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Led Intensity Measurement Case Study
 - Setting Reading Goals Led Intensity Measurement Case Study
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Led Intensity Measurement Case Study
 - Fact-Checking eBook Content of Led Intensity Measurement Case Study
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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a christmas carol est un film réalisé par Jacqui Morris avec les voix de Siân Phillips Simon Russell Beale synopsis d'après l'ouvrage a christmas carol un chant de Noël de Charles Dickens

un chant de Noël a christmas carol dessin animé en - Jun 16 2023

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un chant de Noël vikidia l encyclopédie des 8 13 ans - Sep 07 2022

un chant de Noël un chant de Noël est un conte écrit par Charles Dickens en 1843 il raconte l histoire d un vieil homme Mr Scrooge qui déteste Noël le soir de Noël trois esprits viennent lui montrer le passé le présent et le futur après ce voyage il comprend alors que Noël est une fête importante

un chant de Noël a christmas carol texte complet et - Aug 06 2022

un chant de Noël a christmas carol texte complet et annoté trad de l anglais sous la dir de P Lorain nouv éd entièrement revue et corrigée édition intégrale aux éditions Ink Book C est l histoire du plus avare des avares Ebenezer Scrooge