

Initial Customer Meeting

December 3, 2010

Device Description

- Device purpose is to gather data about material appearance based on its optical properties.
- Device parameters:
 - Hemispherical geometry of 1-2 meter diameter (*Diameter preference unknown at this point*).
 - Positionable LED clusters containing 7 individually addressable LEDs.
 - LEDs are controlled using a PC control interface.

LED Cluster Performance

The customer wishes to have the ability to control the luminous intensity of the LED cluster based on the weighted sum of each LED in the cluster.

$$L(\lambda) = \sum_{i=1}^7 w_i L_i(\lambda)$$

The equation above describes the weighted contribution of each LED to the overall luminous intensity of the cluster. It also allows for control the light spectrum emitted.

Contact Information

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