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**Calibration Specification for Single Low Power LED
(English Translation)**

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Introduction

This specification reference CIE127.2007 "LED Measurement" (Measurement of LEDs) and of the relevant existing Photometric requirements, procedures colorimetric measurement and LED light color parameter measurement techniques developed for single supply current

DIP LED luminosity and color calibration parameters of 20mA.

Low-power LED single-tube calibration specification

1 Scope

This standard applies to the supply current of 20mA-line single light emitting diode (hereinafter referred to as LED) light Calibration and color parameters, other power single LED calibration specification may refer to this execution.

2. References

This specification references the following documents.

JJG213-2003 distribution (color) temperature standard lamp JJG384-2002 spectral irradiance standard lamp JJF 1032-2005 optical radiation measurement terminology and definitions CIE127.2007 LED Measurement (Measurement of LEDs) for dated references, only the dated edition applies to this specification; undated reference documents Member, the latest edition (including any amendments) applies to this specification.

3 Terms

3.1 LED average luminous intensity averaged LED luminous intensity when measuring a predetermined value from the LED tube distal end surface of the optical detector effective receiving surface (an area of 100mm²) of Too luminous intensity, in units of cd.

CIE standard conditions A (far field). measuring distance 316mm. Corresponding solid angle 0.001sr, symbol as ILEDA.

CIE standard conditions B (near field). measured distance is 100mm. Corresponding solid angle 0.01sr, symbol as ILEDB.

3.2 The total flux totalluminousflux the sum of the flux emitted by the light source to the entire space, symbol Phi, the unit is 1m.

3.3 chromaticity coordinates each tristimulus value than the sum of its.

Note:

1 because three chromaticity coordinates equals 1, so only the two of them is sufficient to determine the chromaticity.

2 in the CIE standard colorimetric system, the chromaticity coordinates by the symbol X, Y, Z represents.

3.4 peak wavelength Maximum spectral power distribution corresponding to a wavelength, lambda P symbols, in units of nm.

3.5 half-peak bandwidth spectralbandwidthathalfintensitylevels Spectral power distribution curve ordinate equal to 1/2 of the peak corresponding to the difference between the two

wavelengths, in units of nm.

3.6 main wavelength dominantwavelength (ofacolourstimulus) when the non-specific stimulation and monochromatic color additive mixing ratio in an appropriate stimulation to match the color stimulus considered the single Color stimulus wavelength. Units of symbols λ_{dom} nm. For reference non-color LED and other energy stimulus is white (illuminant