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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 11501-2008

Replacing GB/T 11501-1989

**Photography -- Density Measurement -- Part 3: Spectral
Conditions**

(English Translation)

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Foreword

This standard is identical with ISO 5-3:1995 "photographic density measurements - Part 3. Spectral conditions" (in English).

This standard replaces GB/T 11501-1989 "spectral density measurement condition Photography" (referring to international standard ISO 5-3. 1984 "photo Movies density

measurement - Part 3. Spectral conditions ", and this has been the international standard ISO 5-3:1995 in place, and there are technical amendments).

This standard is equivalent translation ISO 5-3:1995.

For ease of use, this standard does the following editorial changes.

- a) "this International Standard" be replaced by "this standard";
- b) use a decimal point instead of a decimal comma " , " . " , " ;
- c) Delete ISO 5-3:1995 Foreword; the ISO 5-3:1995 introduction as a direct translation of the introduction of this standard;
- d) Normative references introductory phrase file to GB/T 1.1-2000 specified key words.

This revised version of the standard in content compared to its previous version, including the following changes.

--- The standard name according to international standard name translated from the original "condition photographic spectrum density measurement" to "photographic density measurements Part 3. Spectral conditions ";

--- Increasing the foreword and introduction;

--- In order to more clearly understand the standard content of the "scope" This section has been clearly defined and broadly defined (Excerpts Chapter 1, Chapter 1, 1989 edition);

--- Added "Normative References" chapter. In reference standard, because China is now equivalent to using no country cited international standards Standard, therefore, direct reference to international standards (see Chapter 2 edition);

--- "Definition" of the expansion. For consistency of application and meaning more clearly, increase some of the terms. The spectral characteristics of densitometer Verification, introducing the concept of "sideband suppression" of. (Excerpts Chapter 4, Chapter 4, 1989 edition);

Note 2: the distribution of radiation in a pneumatic temperature 2856K tungsten spiral approximates the spectral distribution of this, and therefore can be used as the standard illuminant A Specific reproduction.

Radiation outside the desired passband blocked or compression level.

Usually means within the passband outside the passband and integrated energy ratio of the energy integration is desired.

The wavelength of maximum system response time.

When the system response falls to a predetermined percentage of the peak, the passband width between two points in wavelength units.

Incident on the sample surface or sampling aperture incident flux spectrum. Spectrum is a function of the incident light and the sample light source side optical system.

4 Density measurement

In order to fully define the spectral density type from the spectroscopic properties, should provide a light source, optical components and spectral response measurement system.

CIE standard GB/T 11501-2008/ISO 5-3:1995