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(CSAJ/JSA)

**Methods of colour measurement —  
Reflecting and transmitting objects**

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## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Color Science Association of Japan (CSAJ)/ Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS Z 8722 : 2000** is replaced with this Standard.

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# Methods of colour measurement — Reflecting and transmitting objects

## 1 Scope

This Japanese Industrial Standard specifies the methods for measuring the colour of reflecting and transmitting objects (hereafter referred to as “colour”) according to the CIE 1931 standard colorimetric system (hereafter referred to as “XYZ”)<sup>1)</sup> and the CIE 1964 supplementary standard colorimetric system (hereafter referred to as “ $X_{10}Y_{10}Z_{10}$ ”)<sup>2)</sup>.

When the colour of fluorescent objects is measured, it shall be in accordance with specification of JIS Z 8717.

The XYZ and  $X_{10}Y_{10}Z_{10}$  shall be applied to cases where it is desirable to obtain a good correlation to the visual colour matching in the centrally-viewed fields of angular subtenses between about 1 and about 4 degrees and in the centrally-viewed fields of angular subtenses greater than about 4 degrees.

The methods for measuring the colour in this Standard conform to the methods for measuring the colour specified in the Publication CIE No. 15 : 2004 *Colorimetry*, third edition.

Notes <sup>1)</sup> The standard colorimetric system recommended by Commission Internationale de l'Eclairage (CIE) in 1931.

<sup>2)</sup> The standard colorimetric system recommended by CIE in 1964.

## 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall apply.

JIS Z 8103 *Glossary of terms used in measurement*

JIS Z 8105 *Glossary of colour terms*

JIS Z 8120 *Glossary of optical terms*

JIS Z 8701 *Colour specification — The CIE 1931 standard colorimetric system and the CIE 1964 supplementary standard colorimetric system*

JIS Z 8717 *Methods of measurement for colour of fluorescent objects*

JIS Z 8741 *Specular glossiness — Method of measurement*