

JIS

JAPANESE INDUSTRIAL STANDARD

**Determination of ISO Colour
Contribution Index (ISO/CCI)
of Camera Lenses**

JIS B 7097^{—1986}

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by

Japanese Standards Association

Translation without guarantee
In the event of any doubt arising, the original
standard in Japanese is to be evidence

1. Scope

This standard specifies a method for determining the colour contribution of camera lenses, hereinafter referred to as the "lens", according to the ISO Colour Contribution Index (ISO/CCI).

2. Definitions

For the purpose of this standard, the terms defined in JIS Z 8105, JIS Z 8113, JIS Z 8120 and JIS Z 8720, and the following apply.

- (1) colour contribution index Index for the estimation of the degree to which a lens will change the overall colour of a colour photograph relative to that obtained with no lens in the system. This is indicated by a set of three numbers corresponding to three colours; blue, green and red.
- (2) ISO colour contribution index Colour contribution index calculated according to the method specified in this standard.

Symbol: ISO/CCI

- (3) photographic response The response of a photographic film to radiant flux transmitted by the lens, represented by the following formula:

$$R = \int_{\lambda_1}^{\lambda_2} S_{\lambda}(\lambda) \tau(\lambda) s(\lambda) d\lambda$$

where R : photographic response

$S_{\lambda}(\lambda)$: spectral distribution of the radiant flux

$\tau(\lambda)$: axial spectral transmittance of the lens

$s(\lambda)$: spectral sensitivity of the film

λ : wavelength

λ_1 to λ_2 : wavelength region over which the film is sensitive