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Photographic lenses — Methods for the measurement of the effective aperture, F-number and relative aperture

ICS 37.040.10

Descriptors : photographic lenses, camera lenses, lens apertures, efficiency, hole-size
measurement

Reference number : JIS B 7095 : 1997 (E)

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. JIS B 7095:1978 is replaced with this JIS B 7095:1997.

This Standard contains Annexes as under;

- Annex 1 (informative) Measuring methods of T-number
- Annex 2 (informative) Measuring methods of effective F-number
- Annex 3 (informative) Measuring methods of effective T-number

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In the event of any doubts arising as to the contents,
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Photographic lenses—Methods for the measurement of the effective aperture, F-number and relative aperture

Introduction This Japanese Industrial Standard is based on **ISO 517**, *Photography—Apertures and related properties pertaining to photographic lenses—Designations and measurements* published in 1996 as the 2nd edition without changing the technical contents as for the corresponding parts. The items (measuring methods of T-number, measuring methods of effective F-number and measuring methods of effective T-number) not specified in the corresponding International Standard are added as the Annex (informative) to this Japanese Industrial Standard.

In Japanese Industrial Standards, the provisions of **ISO 517** are divided into three standards of **JIS B 7094**, **JIS B 7095** and **JIS B 7106**.

1 Scope This Japanese Industrial Standard specifies the measuring methods of effective aperture, F-number and relative aperture of photographic lenses.

Remarks 1 In **ISO 517**, “f-number” is used, but in this Japanese Industrial Standard F-number is used in accordance with the conventional custom and present state in the industries.

2 The F-number and T-number which are effective when the lens is used in a finite object distance are called effective F-number and effective T-number respectively. For T-number, effective F-number and effective T-number, Annex 1, Annex 2 and Annex 3 are provided respectively.

3 The following is the corresponding International Standard to this Standard:

ISO 517:1996 *Photography—Apertures and related properties pertaining to photographic lenses—Designations and measurements*

2 Normative references The following standards contain the provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards indicated below shall be applied.

JIS B 7094 *Methods of measurement for focal length of photographic lenses*

JIS Z 8120 *Glossary of optical terms*

3 Definitions For the purpose of this Standard, the definitions given in **JIS Z 8120** and the following definitions apply.