

Photography — Illuminants for sensitometry — Specifications for daylight, incandescent tungsten and printer

ICS 37.040.10

National foreword

This British Standard reproduces verbatim ISO 7589:2002 and implements it as the UK national standard. It supersedes BS 1380-4:1986 which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CPW/42, Photography, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

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*Photographie — Illuminants sensitométriques — Spécifications pour la
lumière du jour, la lumière artificielle et la tireuse*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 7589 was prepared by Technical Committee ISO/TC 42, *Photography*.

This second edition cancels and replaces the first edition (ISO 7589:1984), which has been technically revised and enlarged to include a standard sensitometric illuminant for black-and-white papers.

Annexes A to D of this International Standard are for information only.

Introduction

Colour and black-and-white camera films are most commonly designed for use with three light sources, these being daylight, studio tungsten (type B) and photoflood (type A), while black-and-white papers are most commonly used with enlargers employing incandescent tungsten sources. This International Standard specifies three corresponding illuminants for film sensitometry and one for black-and-white paper sensitometry, since most meaningful results are obtained when exposing conditions match those of actual film or paper use. Two other important photographic light sources for film, the electronic flashtube and blue photoflash lamps, give light of a colour that approximates daylight so that the sensitometric daylight illuminant also serves for films used with them.

This International Standard constitutes a revision of the first edition, ISO 7589:1984. It differs from the first edition in that it includes a standard sensitometric illuminant for black-and-white papers (the first edition dealt with camera film illuminants only). No standard exists for the determination of the speeds of colour papers.

The illuminants described in this International Standard are used in ISO 3028, ISO 6728 and other International Standards which describe methods for determining the speed of various types of sensitized products.

