

BS EN ISO 24502:2010



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Ergonomics — Accessible design — Specification of age-related luminance contrast for coloured light (ISO 24502:2010)

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The UK participation in its preparation was entrusted to Technical Committee PH/9/1, Ergonomics of the physical environment.

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

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Compliance with a British Standard cannot confer immunity from legal obligations.

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English Version

Ergonomics - Accessible design - Specification of age-related luminance contrast for coloured light (ISO 24502:2010)

Ergonomie - Conception accessible - Spécification du
contraste de luminance lié à l'âge pour la lumière colorée
(ISO 24502:2010)

Ergonomie - Zugängliche Gestaltung - Leitlinien für die
Spezifikation des altersbezogenen Leuchtdichte-Kontrastes
für farbiges Licht (ISO 24502:2010)

This European Standard was approved by CEN on 14 December 2010.

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Foreword

This document (EN ISO 24502:2010) has been prepared by Technical Committee ISO/TC 159 “Ergonomics” in collaboration with Technical Committee CEN/TC 122 “Ergonomics” the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2011, and conflicting national standards shall be withdrawn at the latest by June 2011.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

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Endorsement notice

The text of ISO 24502:2010 has been approved by CEN as a EN ISO 24502:2010 without any modification.

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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 2.

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.

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ISO 24502 was prepared by Technical Committee ISO/TC 159, *Ergonomics*, Subcommittee SC 5, *Ergonomics of the physical environment*.

Introduction

Although the proportion of older people is increasing in many countries, the care for better visibility of signs and displays is not sufficiently taken for those older people. This prevents older people from actively being involved in social activities, as well as from living their life safely and comfortably. This International Standard provides a method of calculating age-related luminance contrast that can be used for assessing and designing signs and displays in our visual environment, so that they are clearly visible to older people. This method calculates age-related luminance contrast for people aged from 10 to 79 years based on age-related photopic spectral luminous efficiency of the eye.

This International Standard adopts the principles of accessible design given in ISO/IEC Guide 71 and amplified in ISO/TR 22411.