
INTERNATIONAL STANDARD



2895

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Cinematography — Screen luminance for review room projection of motion-picture film intended for indoor theatres

*Cinématographie — Luminance des écrans de projection dans les salles de vision pour films
cinématographiques destinés aux salles d'exploitation*

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FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (ISO Member Bodies). The work of developing International Standards is carried out through ISO Technical Committees. Every Member Body interested in a subject for which a Technical Committee has been set up 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.

Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2895 was drawn up by Technical Committee ISO/TC 36, *Cinematography*, and circulated to the Member Bodies in August 1972.

It has been approved by the Member Bodies of the following countries :

- | | | |
|---------------------|-------------|-----------------------|
| Australia | India | South Africa, Rep. of |
| Austria | Italy | Sweden |
| Belgium | Japan | Switzerland |
| Czechoslovakia | Mexico | Thailand |
| Egypt, Arab Rep. of | Netherlands | United Kingdom |
| France | New Zealand | U.S.S.R. |
| Germany | Romania | |

The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

- Canada
- U.S.A.

Cinematography – Screen luminance for review room projection of motion-picture film intended for indoor theatres

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the luminance and the distribution of luminance of screens in review rooms intended for viewing motion-picture prints for projection in indoor theatres.

2 REFERENCES

ISO 2910, *Cinematography – Screen luminance for projection of films in indoor theatres*.

ISO . . ., *Cinematography – Stray light in motion-picture theatres and review rooms*.¹⁾

3 MEASUREMENT OF LUMINANCE

3.1 The luminances specified are measured with the projector operating at normal projection speed without film in the gate.

3.2 The screen luminance shall be measured with a photometer having an acceptance angle not greater than 2° (recommended value 1,5°) and having the spectral sensitivity of a Standard Observer agreed to by the International Commission on Illumination in 1924 and adopted in 1933 by the International Committee of Weights and Measures.

3.3 The measurements shall be taken with the photometer located at approximately 1 m (39 in) above the floor, at a distance from the screen equal to the width of the screen and on the centre line of the viewing area.

4 LUMINANCE LEVEL

The luminance measured at the centre of the screen measured from the centre of the viewing area (see 3.3) shall be $40 \begin{smallmatrix} +25 \\ 0 \end{smallmatrix} \text{ cd/m}^2$.*

It is recommended that projectors in the same review rooms be balanced with regard to spectral and photometric characteristics.

NOTE – Due to the difference in print densities, the range of luminance level used in certain countries is 40 to 50 cd/m², and in other countries is 48 to 65 cd/m². In the International exchange of release prints, the prevailing range of screen luminance in certain countries should be noted.

5 LUMINANCE DISTRIBUTION

The luminance measured on the horizontal centre line of the screen at a distance from the screen edges equal to 5 % of the width of the screen shall be equal and at least 60 % of that at the centre, and not more than 85 %, the recommended value being 75 %.

NOTE – **Spectral characteristic** : To view 35 mm and 70 mm colour films, it is recommended that xenon lamps or high intensity carbon arc light sources be used. Filters imitating the spectral characteristics and having the same equivalent colour temperature are permitted when incandescent lamps or other types of light sources are used.

1) In preparation.

* The name nit has been used for this unit.