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# International Standard 6035

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## **Cinematography — Viewing conditions for the evaluation of films and slides for television — Colours, luminances and dimensions**

*Cinématographie — Conditions de visionnement pour l'évaluation des films et diapositives pour la télévision — Couleurs, luminances et dimensions*

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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 developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized 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 6035 was developed by Technical Committee ISO/TC 36, *Cinematography*, and was circulated to the member bodies in June 1980.

It has been approved by the member bodies of the following countries :

Australia	France	Spain
Austria	Germany, F. R.	Sweden
Belgium	Ireland	Switzerland
Canada	Italy	United Kingdom
China	Japan	USA
Czechoslovakia	Poland	USSR
Denmark	Romania	
Egypt, Arab Rep. of	South Africa, Rep. of	

No member body expressed disapproval of the document.

# Cinematography — Viewing conditions for the evaluation of films and slides for television — Colours, luminances and dimensions

## 1 Scope and field of application

**1.1** This International Standard lays down the necessary conditions for the colour and luminance of open gate screen illumination and colour and luminance of the surround illumination.

It also specifies the relative size of the surround and screen, and the level of ambient illumination to permit critical evaluation of colour balance and contrast of films intended for television use.

**1.2** This International Standard also recommends viewing conditions for review rooms for large audiences.

## 2 References

ISO 2895, *Cinematography — Screen luminance for review room projection of motion-picture film intended for indoor theatres.*

ISO 6036, *Cinematography — Colour films and slides for television broadcast — Density.*<sup>1)</sup>

## 3 Colour and luminance of open gate screen

**3.1** Although it is recognized that ultimate reproduction of white in the television system will be  $D_{6500}$  or illuminant C, a screen chromaticity and spectral distribution approximately that of a black body of nominally 5 400 K shall be used. A range from 5 000 to 6 500 K is acceptable with a preferred characteristic of 5 400 K whenever it can be achieved.

**3.2** The screen colour mentioned in 3.1 results from chromatic distribution of the projector light and of the screen reflectance. (See annex A.1.1.)

**3.3** To facilitate the illumination of a visual surround, it may be desirable to use a screen of low reflectance, or one with directional properties. (See annex A.1.2.)

**3.4** The open gate luminance of the screen measured in accordance with ISO 2895 shall be  $137 \pm 13,7 \text{ cd/m}^2$  [ $40 \pm 4 \text{ ftL}^2$ ]. This luminance will produce, with a film conforming to that specified in ISO 6036, in the gate, a white luminance of about  $68 \text{ cd/m}^2$  (20 ftL), which corresponds approximately to peak white luminance of colour television monitors.

**3.5** The luminance at a distance of 5 % of the screen width from the side edges of the screen shall be  $90 \pm 10 \%$  of the centre luminance along the horizontal axis.

**3.6** If a directional screen is used, the viewing audience shall be restricted to that area from which the luminance tolerance is operative.

## 4 Screen dimensions

**4.1** The viewing screen shall be of such size that the viewing audience may be seated at a distance from the screen equal to four to six times the screen height. Its size shall be sufficiently small so that a visible surround area of approximately eight times the screen area is possible (see the figure).

**4.2** The ratio of screen width to screen height shall be 1,33 :1.

1) At present at the stage of draft.

2) ftL = foot-Lambert.