

SMPTE STANDARD

for Motion-Picture Film —
Indoor Theater and
Drive-In Booth Projection —
Screen Luminance and Viewing Conditions

Page 1 of 10 pages

1 Scope

This standard is intended for indoor theaters, drive-in theaters, drive-in theaters, and outdoor theaters, and for motion picture film projection in these theaters. It is intended to be used in conjunction with the SMPTE 2009-2011 Standard for Motion Picture Film Projection, which specifies the requirements for the projection of motion picture film in these theaters. It is intended to be used in conjunction with the SMPTE 2009-2011 Standard for Motion Picture Film Projection, which specifies the requirements for the projection of motion picture film in these theaters.

2 Normative references

The following standards contain provisions which, through reference in this standard, constitute provisions of this standard. For the purposes of this standard, the provisions of the following standards are referred to as "normative references." The following standards are referred to as "informative references." The following standards are referred to as "informative references."

ANSI Z39.48-1998, American National Standard for Projection Booth Design, Part 1: Design and Construction Requirements

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ANSI Z39.48-1998, American National Standard for Projection Booth Design, Part 3: Design and Construction Requirements

ANSI Z39.48-1998, American National Standard for Projection Booth Design, Part 4: Design and Construction Requirements

3 Negative screening conditions

Screening conditions shall be such that the negative is not overexposed (i.e., the negative is not overexposed) and that the negative is not underexposed (i.e., the negative is not underexposed). The screening conditions shall be such that the negative is not overexposed (i.e., the negative is not overexposed) and that the negative is not underexposed (i.e., the negative is not underexposed).

4 Measurement system

The measurement system shall be such that the measurement system is not overexposed (i.e., the measurement system is not overexposed) and that the measurement system is not underexposed (i.e., the measurement system is not underexposed). The measurement system shall be such that the measurement system is not overexposed (i.e., the measurement system is not overexposed) and that the measurement system is not underexposed (i.e., the measurement system is not underexposed).

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Projection Displays Matthew S. Brennessoltz, Edward H. Stupp, 2008-09-15 Projection is a technology for generating large high resolution images at a price point end users can afford This allows it to be used in a wide variety of large screen markets such as television and cinema In addition there are emerging small screen markets where a pocketable miniaturized projector can display images from mobile information devices such as smart phones or portable media players Fully revised this second edition of *Projection Displays* provides up to date coverage of the optical and mechanical systems in electronic projection displays It takes into account major new developments in the many technologies needed to manufacture a projector display system It presents a comprehensive review of projector architectures systems components and devices Key new and updated features include new material on light sources for projection displays updated information on the human factors of projection displays including color gamuts resolution and speckle coverage of new image generating systems including LCOS and scanned laser systems up to date information on front and rear projection screens practical examples of projection display applications models for predicting the performance of optical and mechanical systems This book is aimed at practicing engineers and researchers involved in the research development design and manufacture of projection displays It includes key aspects from the many technologies contributing to projection systems such as illumination sources optical design electronics semiconductor design microdisplay systems and mechanical engineering The book will also be of interest to graduate students taking courses in display technology and imaging science as well as students of the many other engineering physics and optics disciplines that lead into the field of projection displays The Society for Information Display SID is an international society which has the aim of encouraging the development of all aspects of the field of information display Complementary to the aims of the society the Wiley SID series is intended to explain the latest developments in information display technology at a professional level The broad scope of the series addresses all facets of information displays from technical aspects through systems and prototypes to standards and ergonomics *Illumination, Color and Imaging* P. Bodrogi, T. Q. Khan, 2012-07-23 This much needed comprehensive and modern reference on display technology illumination sources and color imaging focuses on visual effects and how reproduced images are best matched to human visual features As such it teaches readers how to exploit the knowledge of human color information processing to design usable ergonomic and pleasing displays or visual environments The contents describe design principles and methods to optimize self luminous visual technologies for the human user including modern still and motion image displays and indoor light sources Design principles and methods are derived from the knowledge of the human visual system with a special emphasis on color vision color cognition color harmony color preference and visually evoked emotions The expert authors include the most important and latest applications of the design principles and methods forming a comprehensive view of human color information processing from the receptors through the retina via high level visual perception right up to the

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AES; , **RP 222** ,2003 **EG 39** ,2003 **ST 168** ,2001 **ST 151** ,2004
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