ISO/CIE-<u>FDIS</u> 11664-5:2024(E)

<u>CIE</u>

Secretariat:-_CIE

Date: 2024-02-16

Colorimetry —

Part 5:

CIE 1976 L*u*v* Colour space and u', v' uniform chromaticity scale diagram

Colorimétrie —

Partie 5: Espace chromatique L*u*v* et diagramme $\underline{Diagramme}$ de chromaticité uniforme $\underline{u'}$,- $\underline{v'}$ et espace chromatique CIE 1976 $\underline{L*u*v*}$

Document Preview

ISO/CIE FDIS 11664-5

https://standards.iteh.ai/catalog/standards/iso/020ca6c5-01df-4daa-h4a2-34ab59f9d5e2/iso-cie-fdis-11664-5

FDIS stage

iTeh Standards (https://standards.iteh.ai) Document Preview

ISO/CIE FDIS 11664-5

https://standards.iteh.ai/catalog/standards/iso/020ca6c5-01df-4daa-h4a2-34ab59f9d5e2/iso-cie-fdis-11664-5

© ISO/CIE 2024

All rights reserved. Unless otherwise specified, or required in the context of its implementation, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO"'s member body in the country of the requester.

ISO Copyright Office copyright office

CP 401 • <u>Ch. de Blandonnet 8</u> CH-1214 Vernier, Geneva

Phone: + 41 22 749 01 11

Email: copyright@iso.org

E-mail: copyright@iso.org

Website: www.iso.org

Published in Switzerland-

iTeh Standards (https://standards.iteh.ai) Document Preview

ISO/CIE FDIS 11664-5

https://standards.iteh.ai/catalog/standards/iso/020ca6c5-01df-4daa-b4a2-34ab59f9d5e2/iso-cie-fdis-11664-5

ISO/CIE FDIS 11664-5:2024(<u>**Een**</u>)

Contents

rorev	voru v	
Intro	duction vii	
1	—Scope—1	
2	—Normative references 1	
3	—Terms, definitions, symbols and abbreviated terms—1	
3.1	—Terms and definitions—1	
3.2	—Symbols and abbreviated terms——2	
4	—Calculation method —2	
4.1	—Uniform chromaticity scale diagram (UCS diagram)—2	
4.2	—Uniform colour space—3	
4.3	—Correlates of lightness, saturation, chroma and hue—5	
4.4	—Colour differences 5	
Anne	x A (informative) Reverse transformation 8	
Biblic	ography 9	
Forev	word	<u></u> V
Intro	ductionITeh Standards	<u></u> vii
1	ScopeScope	<u></u> 1
<u>2</u>	Normative references	<u></u> 1
<u>3</u>	Terms, definitions, symbols and abbreviated terms	<u></u> 1
3.1	Terms and definitions	<u></u> 1
3.2	Symbols and abbreviated termsISO/CIE FDIS 11.664-5.	<u></u> 2
4https	Calculation method alog/standards/iso/020ca6c5-01df-4daa-b4a2-34ab59f9d5e2/iso-cie-fdis-11664	<u>-5</u> 2
4.1	Uniform chromaticity scale diagram (UCS diagram)	<u></u> 2
4.2	Uniform colour space	<u></u> 3
4.3	Correlates of lightness, saturation, chroma and hue	<u></u> 5
4.4	Colour differences	<u></u> 5
	x A (informative) Reverse transformation	
Biblio	pgranhy	Ç

ISO/CIE FDIS 11664-5:2024(Een)

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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents.www.iso.org/patents.. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by the International Commission on Illumination (CIE) in cooperation with Technical Committee ISO/TC 274, *Light and lighting*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 139, *Paints and varnishes*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This second edition cancels and replaces the first edition (ISO/CIE 11664–5:2016), which has been technically revised. The first edition (ISO/CIE 11664–5:2016) cancelled and replaced ISO 11664–5:2009.

The main changes are as follows:

——list of ISO/CIE 11664 series <i>Colorimetry</i> shifted from Foreword to Introduction;
— texts in Clause 2 updated; — texts in 3.1, 4.2, 4.3, and 4.4 updated;
<u>text in 3.1, 4.2, 4.3, and 4.4 updated;</u>
— previous Formula (24) Formula (24) deleted and related formula numbers updated accordingly;
— sign in Formula (26) Formula (26) updated;
— —Bibliography updated;
— minor editorial changes.

ISO/CIE FDIS 11664-5:2024(Een)

A list of all parts in the ISO/CIE 11664 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

iTeh Standards (https://standards.iteh.ai) Document Preview

ISO/CIE FDIS 11664-5

https://standards.iteh.ai/catalog/standards/iso/020ca6c5-01df-4daa-b4a2-34ab59f9d5e2/iso-cie-fdis-11664-5