
**Photocarcinogenesis action spectrum
(non-melanoma skin cancers)**

*Spectre d'action de la photocarcinogenèse (cancers de la peau hors
mélanome)*

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

[ISO/CIE 28077:2016](https://standards.iteh.ai/catalog/standards/iso/7fd8b5ac-cbfc-478d-95d2-7a2778b69ead/iso-cie-28077-2016)

<https://standards.iteh.ai/catalog/standards/iso/7fd8b5ac-cbfc-478d-95d2-7a2778b69ead/iso-cie-28077-2016>

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

[ISO/CIE 28077:2016](https://standards.iteh.ai/catalog/standards/iso/7fd8b5ac-cbfc-478d-95d2-7a2778b69ead/iso-cie-28077-2016)

<https://standards.iteh.ai/catalog/standards/iso/7fd8b5ac-cbfc-478d-95d2-7a2778b69ead/iso-cie-28077-2016>



COPYRIGHT PROTECTED DOCUMENT

© ISO/CIE 2016, Published in Switzerland

All rights reserved. Unless otherwise specified, 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
Ch. de Blandonnet 8 • CP 401
CH-1214 Vernier, Geneva, Switzerland
Tel. +41 22 749 01 11
Fax +41 22 749 09 47
copyright@iso.org
www.iso.org

CIE Central Bureau
Babenbergerstraße 9/9A
A-1010 Vienna, Austria
Tel. +43 1 714 3187

ciecb@cie.co.at
www.cie.co.at

Contents

	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms, definitions, symbols and abbreviations	1
3.1 Terms and definitions.....	1
3.2 Symbols and abbreviations.....	1
4 The action spectrum for photocarcinogenesis of non-melanoma skin cancers	1
5 Tabulated and graphic values	2
Bibliography	7

iTeh Standards
(<https://standards.itih.ai>)
Document Preview

[ISO/CIE 28077:2016](#)

<https://standards.itih.ai/catalog/standards/iso/7fd8b5ac-cbfc-478d-95d2-7a2778b69ead/iso-cie-28077-2016>

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 documents 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).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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

For an explanation on 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 the following URL: www.iso.org/iso/foreword.html.

ISO/CIE 28077 was prepared by CIE Technical Committee 6-32, *Action Spectrum for Photocarcinogenesis*, as CIE S 019. The committee responsible for this document is ISO/TC 274, *Light and lighting*.

This second edition cancels and replaces the first edition (ISO 28077:2006), of which it constitutes a minor revision.

[ISO/CIE 28077:2016](https://standards.iteh.ai/catalog/standards/iso/7fd8b5ac-cbfc-478d-95d2-7a2778b69ead/iso-cie-28077-2016)

<https://standards.iteh.ai/catalog/standards/iso/7fd8b5ac-cbfc-478d-95d2-7a2778b69ead/iso-cie-28077-2016>

Introduction

Solar ultraviolet radiation (UVR) is recognized as a major cause of non-melanoma skin cancer in human beings. Skin cancer occurs most frequently in the most heavily exposed areas and correlates with degree of outdoor exposure. Describing the relationship of exposure (dose) to risk (skin cancer) requires the availability of a biological hazard function or *action spectrum* for photocarcinogenesis. This document proposes the adoption of an action spectrum (weighting function) derived from experimental laboratory data and modified to estimate the non-melanoma tumour response in human skin. The experimental data are sufficient for estimating effectiveness down to about 250 nm, but experimental data are not sufficient for specifying effectiveness above 400 nm.

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

[ISO/CIE 28077:2016](#)

<https://standards.iteh.ai/catalog/standards/iso/7fd8b5ac-cbfc-478d-95d2-7a2778b69ead/iso-cie-28077-2016>

