



International Commission on Illumination
Commission Internationale de l'Eclairage
Internationale Beleuchtungskommission

PRESS RELEASE

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Joint ISO/CIE Standard

ISO/CIE 28077:2016
Photocarcinogenesis action spectrum
(non-melanoma skin cancers)

This joint ISO/CIE International Standard is replacing the joint ISO/CIE International Standard ISO 28077:2006/CIE S 019-5:2006 without modification of its technical content.

Solar ultraviolet radiation (UVR) is recognized as a major cause of non-melanoma skin cancer in man. 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 standard 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.

This ISO/CIE International Standard has been approved by the CIE National Committees and by ISO. It is readily available from the [CIE Webshop](#) or from the National Committees of the CIE.

The price of this publication is EUR 57,- (Members of the National Committees of the CIE receive a 66,7 % discount on this price).