
Photocarcinogenesis action spectrum (non-melanoma skin cancers)

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

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Foreword

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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.

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.

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