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Calibration, Characterization and Use of Array Spectroradiometers

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Array spectroradiometers are used pervasively in light measurement. However, their properties are not widely understood by users. This report seeks to educate users in the characteristics of array spectroradiometers that are important to obtaining accurate measurement results. Moreover, performance indices are proposed that will enable users to rank instruments according to the properties that affect their applications. In many cases, if the array spectroradiometer is properly characterized, correction can be made to measurements that will improve the accuracy. Details of the nature and use of these corrections are given. Calibration procedures and uncertainties are discussed for various common quantities, giving a sound foundation to measurements. Background information, underlying the discussions, is found in the annexes and references.

The publication is written in English, with a short summary in French and German. It consists of 103 pages with 50 figures and 2 tables and is readily available from the [CIE Webshop](#) or from the National Committees of the CIE.

The price of this publication is EUR 162,- (Members of a National Committee of the CIE receive a 66,7 % discount on this price – please approach your NC for information on accessing this discount).