

ICS 37.020
CCS N32



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 44268.3-2026

**Microscopes - Definition and measurement of illumination
properties - Part 3: Incident light fluorescence microscopy with
incoherent light sources**

显微镜 照明特性的定义和测量 第3部分：使用非相干光源的入射光荧光显微术
(English Translation)

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Foreword

GB/T 44268.3-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 August 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 March 2027.

The document adopts an international standard (ISO or IEC).

It is under the responsibility of the China Machinery Industry Federation.

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1 Scope

Fluorescence microscopy relies on a controlled and well-characterised illumination, and this document defines how illumination properties are described and measured for incident light fluorescence microscopy that uses incoherent light sources. It is Part 3 of the series on the definition and measurement of illumination properties for microscopes, and its focus on incoherent sources means lamp and LED based systems rather than lasers.

Microscope manufacturers can use it to characterise and report the performance of their illumination systems, while core facilities, research laboratories and imaging scientists may rely on it to compare instruments and to check that a system stays within its expected performance. Suppliers of light sources and filter sets are also potential users. It is a recommended national standard and adopts an international standard. It was issued on 28 August 2026 and takes effect on 1 March 2027.