

ICS 81.060.30

CCS Q 32



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

GB/T 48120-2026

**Fine ceramics - LED light source for testing semiconducting
photocatalytic materials used under indoor lighting
environment**

精细陶瓷 室内照明环境下半导体光催化材料测试用LED光源

(English Translation)

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Foreword

GB/T 48120-2026 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 Building Materials Federation.

Classification: ICS 81.060.30; CCS Q 32.

1 Scope

This standard concerns the LED light source used when testing semiconducting photocatalytic materials under indoor lighting conditions, within the field of fine ceramics. Photocatalytic coatings and powders are often evaluated under ultraviolet light, whereas indoor applications call for illumination that resembles ordinary room lighting; a defined LED source helps make such tests comparable between laboratories.

It will be relevant to developers and producers of photocatalytic materials, independent and in-house test laboratories, and buyers who need performance claims for indoor air-purifying or self-cleaning products to rest on a consistent test setup. The document adopts an international standard. It is a recommended (voluntary) national standard taking effect on 1 March 2027, with the China Building Materials Federation as the responsible body. Using a defined light source also helps manufacturers explain to customers under which lighting conditions a claimed photocatalytic effect was measured.