



valid until: May 26, 2030

# Fraunhofer

## TESTED<sup>®</sup> DEVICE

Zumtobel Lighting GmbH  
INDUSTRY RECESSED  
Report No. ZU 2503-1608

Product series  
Hygienic Design

### Qualification Certificate

This is to certify that the product mentioned above, provided by

**Zumtobel Lighting GmbH**  
Dornbirn, Austria

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number ZU 2503-1608.

The luminaire series INDUSTRY RECESSED is principally suitable for use in hygienic areas up to the following GMP Class according to EU GMP Annex 1:

|                   |
|-------------------|
| Suitability       |
| up to GMP Class C |

However, this recommendation only pertains to the operating utility when in a resting state. An overall assessment can only be made after its installation in the production environment.

ZU 2503-1608  
Report No. first document

Stuttgart, May 26, 2025  
Place, date of first document issued

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Report No. current document

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Place, current date

on behalf of   
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under [www.tested-device.com](http://www.tested-device.com).

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.



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## TESTED<sup>®</sup> DEVICE

Zumtobel Lighting GmbH  
INDUSTRY RECESSED  
Report No. ZU 2503-1608

Product series  
**Particle Emission  
in Cleanroom  
(atmospheric)**

### Qualification Certificate

This is to certify that the product mentioned above, provided by

**Zumtobel Lighting GmbH**  
Dornbirn, Austria

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number ZU 2503-1608.

The luminaire series INDUSTRY RECESSED was assessed in compliance with ISO 14644-14. When operated under the specified test conditions (room temperature: 22 °C ± 0.5 °C; relative humidity: 45 % ± 5 %), it is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Class according to ISO 14644-1:

| Test parameter(s)                    | Air Cleanliness Class |
|--------------------------------------|-----------------------|
| Structure-borne noise = approx. 50Hz | 1                     |
| Overall result                       |                       |

It should be noted that cleanrooms of Class 1 to 5 according to ISO 14644-1 have a higher filter occupancy, which may restrict the use of panel lighting systems. Cleanrooms with a horizontal displacement flow form an exception to this. The test result may be affected by the surrounding ceiling system. Please note: Transport damages, incorrect installation, aging behavior, corrosion etc. can influence the test result.

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