





Fraunhofer TESTED[®] DEVICE Zumtobel Lighting GmbH SUPREME RECESSED Report No. ZU 2503-1608

Statement of Qualification

Product series Particle Emission in Cleanroom (atmospheric)

Statement of Qualification • Product series

Customer	Zumtobel Lighting GmbH Schweizerstrasse 30 6850 Dornbirn Austria	Test result / Classification	The luminaire series SUPREME RECESSED is suitable for use under the spe- cified test parameters (room temperature: $22 \degree C \pm 0.5 \degree C$; relative humidity: $45 \% \pm 5 \%$) in cleanrooms of the following Air Cleanliness Class according to ISO 14644-1:
Tested product	Cleanroom Facilities		Test parameter(s)Air Cleanlines ClassStructure-borne noise = approx. 50 Hz2Overall result2
Category: Subcategory: Product name:	 Cleanroom Facilities Lighting Systems SUPREME RECESSED Tested Products: SUPREME RECESSED CL2 S 6600-840 M625Q SG MP LDO (manufacturing date: 3/11/2025) SUPREME RECESSED CL2 S 6600-840 M625L SG MP LDO (manufacturing date: 3/11/2025) SUPREME RECESSED CL2 S 6600-GBW M625L SG MP LDO (manufacturing date: 3/11/2025) SUPREME RECESSED CL2 S 6600-GBW M625L SG MP LDO (manufacturing date: 3/11/2025) 		 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, in particular the material pairing between lights and ceiling frames, as well as other mounting accessories. Particle emission behavior should be reassessed in each assembly situation. Please note: Transport damages, incorrect installation, aging behavior, corrosion etc. can influence the test result.
Random sampling of particle emissions (a Standards/guidelines: Test equipment:	Simple at representative sites in cleanroom under atmospheric conditions ISO 14644-1, -14 The norms stated generally refer to the version valid at the time of the tests. Optical particle counter: LasAir II 110 and LasAir III 110 with measuring ranges $\geq 0.1 \mu$ m, $\geq 0.2 \mu$ m, $\geq 0.3 \mu$ m, $\geq 0.5 \mu$ m, $\geq 1.0 \mu$ m and $\geq 5.0 \mu$ m		
Test environment parameters: Test procedure parameters:	 Cleanroom Air Cleanliness Class (according to ISO 14644-1):	and international standards. In cases where no na regulations and norms applicable at the time of t	tests are calibrated at regular intervals; their results can be traced back to national ational standards exist, the test procedure implemented complies with the technical the test. The relevant documentation can be viewed on request at any time. environment can be found in the Fraunhofer IPA test report.
	Fraunhofer	Business unit Testing and Certification Repo Nobelstrasse 12 70569 Stuttgart on b	2503-1608 Stuttgart, May 26, 2025 prt No. first document Place, date of first document issued Place, current date port No. current document Place, current date Place, current date mehalf of Maximum The document resting and Certification wwww.tested-device.com

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