





## Fraunhofer TESTED<sup>®</sup> DEVICE Regiolux GmbH ADAX 600 6000 DALI Report No. RE 2404-1517

Statement of Qualification

Single product
Particle Emission

## **Statement of Qualification** • Single product

Customer	Regiolux GmbH Hellinger Strasse 3 97486 Königsberg Germany	Test result / Classification	When operated under the specified test conditions, the luminaire ADAX/600 LED 6000 940 DALI IP65 is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Class according to ISO 14644-1:	
			Test parameter(s)	Air Cleanlines Class
Component tested			Structure-borne noise = approx. 50 Hz <b>Overall result</b>	1
Category:	Cleanroom Facilities			
Subcategory:	Lighting Systems		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	
Product name:	ADAX/600 LED 6000 940 DALI IP65		to this.	
	(manufacturing date: 3/2024; color: traffic white; article number: 6216 4026 660; charge number: PO06)		The test result may be affected by the surroundin cular the material pairing between lights and ceil mounting accessories. Particle emission behavior	ing frames, as well as other

## Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:	ISO 14644-1, -14 The norms stated generally refer to the ve	ersion valid at the time of the tests.
Test devices:	Optical particle counter: LasAir II 110 and LasAir III 110 with measure $\geq 0.3 \mu\text{m}, \geq 0.5 \mu\text{m}, \geq 1.0 \mu\text{m}$ and $\geq 5.0 \mu\text{m}$	5 5 1 1
Test environment parameters:	<ul> <li>Cleanroom Air Cleanliness Class (accord</li> <li>Airflow velocity:</li> <li>Airflow pattern:</li> <li>Temperature:</li> <li>Relative humidity:</li> </ul>	0.45 m/s 
Test procedure parameters:	<ul> <li>The luminaire was subjected to stress as f</li> <li>Structure-borne noise:</li> <li>Oscillation velocity (Ø):</li> <li>Oscillation acceleration (Ø):</li> <li>Deflection of the system (Ø):</li> </ul>	approx. 50 Hz v = 2.2420 mm/s a = 0.7974 m/s <sup>2</sup>

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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assembly situation.

Please note: Transport damages, incorrect installation, aging behavior, corrosion etc. can influence the test result.

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

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

on behalf of The Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA

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Stuttgart, June 12, 2024	
Place, date of first document issued	
Place, current date	

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.