



Fraunhofer

TESTED[®] DEVICE

Glamox AS
C61

Report No. GL 2604-1769

DUPLICATE

Statement of
Qualification

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

Customer	Glamox Sp. z o.o. ul. Jagiellońska 51 32 – 410 Dobczyce Poland
Tested product	
Category:	Cleanroom Facilities
Subcategory:	Lighting Systems
Product name:	C61 Tested Products: • C61-S265x1165 3000 DALI 940 OP/GL (manufacturing date: 4/8/2026) • C61-S265x1165 7000 HF 840 MP/GL (manufacturing date: 4/14/2026) • C61-S565X565 8000 DALI 940 MP/GL (manufacturing date: 4/14/2026) • C61-R600X600 3000 DALI 940 C1 MP/PC (manufacturing date: 4/8/2026) • C61-R600x600 5000 HF 840 C1 OP/PC (manufacturing date: 4/8/2026) • C61-R312X1250 8000 DALI 940 C1 OP/GL (manufacturing date: 4/24/2026)

Random sampling of particle emissions (airborne) at representative sites in cleanroom under atmospheric conditions

Standards/guidelines:	ISO 14644-1, -14 The norms stated generally refer to the version valid at the time of the tests.
Test equipment:	Optical particle counter: LasAir II 110 and LasAir III 110 with measuring ranges $\geq 0.1\text{ }\mu\text{m}$, $\geq 0.2\text{ }\mu\text{m}$, $\geq 0.3\text{ }\mu\text{m}$, $\geq 0.5\text{ }\mu\text{m}$, $\geq 1.0\text{ }\mu\text{m}$ and $\geq 5.0\text{ }\mu\text{m}$
Test environment parameters:	• Cleanroom Air Cleanliness Class (according to ISO 14644-1):..... ISO 1 • Airflow velocity:.....0.45 m/s • Airflow pattern:..... vertical laminar flow • Room temperature:22 °C $\pm$ 0.5 °C • Relative humidity: 45 % $\pm$ 5 %
Test procedure parameters:	The luminaires were subjected to stress as follows: • Structure-borne noise: approx. 50 Hz

Test result / Classification	The luminaire series C61 is suitable for use under the specified test parameters (room temperature: 22 °C $\pm$ 0.5 °C; relative humidity: 45 % $\pm$ 5 %) in cleanrooms of the following Air Cleanliness Class according to ISO 14644-1:
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Test parameter(s)	Air Cleanlines Class
Structure-borne noise = approx. 50 Hz	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, 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.

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.

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Business unit Testing and Certification	-- Report No. current document	-- Place, current date
Nobelstrasse 12 70569 Stuttgart Germany	on behalf of Dr.-Ing. Frank Bürger, head of business unit Testing and Certification	