

TEST REPORT

No. 2258625/1 dated 18.12.2025

QUEST LED EVO EVEREST

Type of Testing: Performance testing in accordance with DIN 18032-3:2023-12
– Sports halls, Halls and rooms sports and multi-purpose-use –
Part 3: Testing of safety against ball throwing

Applicant: **Lena Lighting S.A.**
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Poland

Test Institute: **ISP GmbH**
Institut für Sportstättenprüfung
Amelunxenstraße 65
48167 Münster
Germany

Order No.: 2258625

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By the Deutsche Akkreditierungsstelle (DAkkS) DIN EN ISO/IEC 17025:2018 accredited testing laboratory.

The accreditation covers only the test methods listed in the D-PL-20181-01-00 accreditation certificate.

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Test Location: **ISP GmbH**
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Date of arrival: 10.12.2025

ISP-Sample-No.: 2258625/1

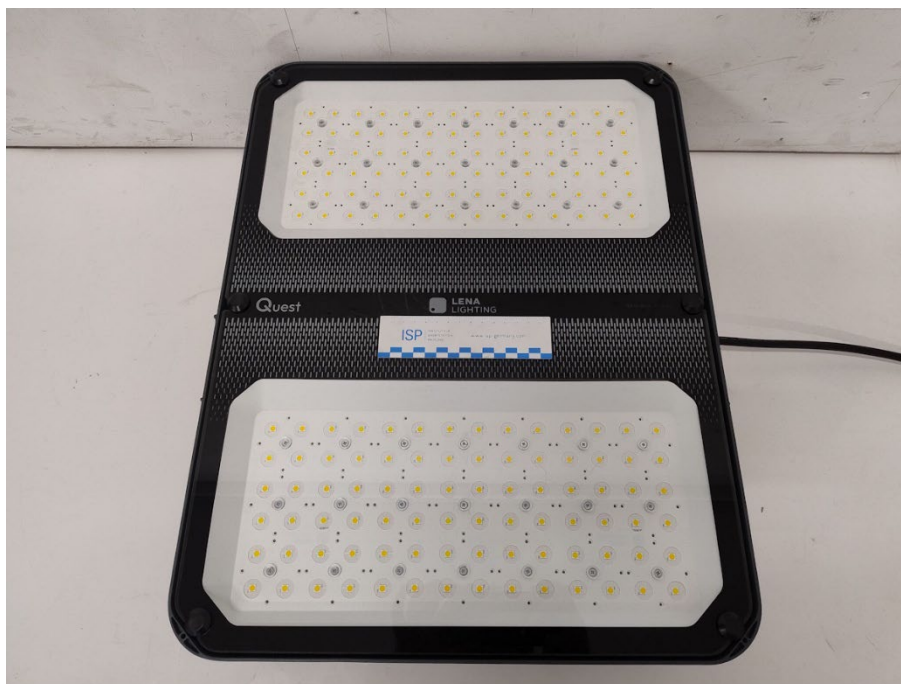
Sampling: No sampling by employees of ISP GmbH,
Sample has been provided by the applicant.

Date of the Testing: 17.12.2025

1. Sample description

The tested ceiling luminaire **QUEST LED EVO EVEREST** had the dimensions of approximately 570 mm x 441 mm x 87 mm.

According to the applicant's instructions, the ceiling luminaire was installed force-fit with a ceiling bracket onto the test ceiling of the ISP GmbH test laboratory.



Picture 1: Frontal view



Picture 2: View of the back with ceiling bracket

2. Test procedure

The safety against ball throwing test has been conducted in accordance with DIN 18032-3:2023-12 paragraph 6.2 – testing of ceiling elements with a ball shooting device, of which the air pressure can be regulated manually. The ball shooting device has been adjusted to the specified impact velocity.

The testing of impact resistance for ceiling elements was conducted in accordance with the requirements for category D11 under the following conditions:

| Ball | Impact velocity | Angle | Number of impacts |
|----------|-----------------|-------|-------------------|
| Handball | 60 km/h | 90° | 12 |
| | 60 km/h | 60° | 12 |
| | 60 km/h | 60° | 12 |

The testing climate of 23/50-2 met the requirements of DIN EN ISO 291:2008-08.

3. Test results

| Ball | Impact angle | Number of impacts | Changes in the element |
|----------|--------------|-------------------|------------------------|
| Handball | 90 | 12 | none |
| | 60 | 12 | |
| | 60 | 12 | |

4. Evaluation

The evaluation is based on the requirements of DIN 18032-3:2023-12. The Evaluation is carried out through visual assessment.

The ceiling, wall or built-in elements, or parts thereof, must not have been destroyed during the test, or have fallen or fallen out. The test elements, including the substructures and fastenings, may only have changed their appearance slightly after being tested and their stability, function and safety must not be impaired.

The tested ceiling luminaire **QUEST LED EVO EVEREST** withstood the testing of safety against ball throwing without any damage. Therefore, the system is classed as **safe against ball throwing for ceiling elements in accordance with DIN 18032-3:2023-12, category D1, for ceiling elements (ballwurfsicher nach Kategorie D1 für Deckenlemente)**.

END OF THE TEST REPORT

The measurement results were stated and evaluated without the measurement uncertainty.

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The test results relate only to the tested samples in the condition as they were received.

This test report was created and released digitally. Effectiveness and validity are equivalent to digital and analogue reports.

Münster, 18.12.2025



Dennis Frank
MANAGING DIRECTOR

