

# TEST REPORT

No. 2240125/2 dated 23.09.2025

## QUEST LED EVO L

**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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**Test Institute:** **ISP GmbH**  
Institut für Sportstättenprüfung  
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**Order No.:** 2240125

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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:** 19.08.2025

**ISP-Sample-No.:** 2240125/7

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

**Date of the Testing:** 03.09.2025 – 23.09.2025

## 1. Sample description

The tested wall luminaire **QUEST LED EVO L** had the dimensions of approximately 434 mm x 550 mm x 57 mm.

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



**Picture 1:** Frontal view



**Picture 2:** View of the back with wall bracket



**Picture 3:** View of the product label

## 2. Test procedure

The safety against ball throwing test has been conducted in accordance with DIN 18032-3:2023-12 paragraph 6.3 – testing of wall 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 W1 under the following conditions:

Ball	Impact velocity	Angle	Number of impacts
Handball	85 km/h	90°	30
	85 km/h	45°	12
	85 km/h	45°	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	30	none
	45	12	
	45	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 wall luminaire **QUEST LED EVO L** withstood the testing of safety against ball throwing without any damage. Therefore, the system is classed as **safe against ball throwing for wall elements in accordance with DIN 18032-3:2023-12, category W1, for wall elements (ballwurfsicher nach Kategorie W1 für Wandelemente)**.

## 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, 23.09.2025



**Paul Dück**  
TECHNICAL DIRECTOR

