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## Technical Report No. 028-713115246-100

Rev. 0

Dated 15.12.2017

Client: Neoline A/S  
Nikolay Marinov  
Laegaardvej 91  
7500 Holstebro

Manufacturing place: s. a.

Test subject: Product: LED Luminaire  
Type: Neo-Light 1500S, article No. N15N100W40

Test specification: DIN 18032-3:1997 Pkt. 6.1

Purpose of examination:

- Ball throwing test according to DIN EN 18032-3:1997 item 6.1

Test result: The test results show that the presented product is **in compliance** with the specified requirements.

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## 1 Description of the test subject

### 1.1 Function

Manufacturer's specification for intended use:

Ceiling LED Luminaire Neo-Light for sport gyms

*(According to the user manual)*

*(Other manufacturer's sources of information)*

Manufacturer's specification for predictive misuse:

No data

*(According to the user manual)*

*(no restrictions provided)*

*(e.g. combination with other products)*

*(If not described sufficiently, hint in point 3.2)*

### 1.2 Consideration of the foreseeable use

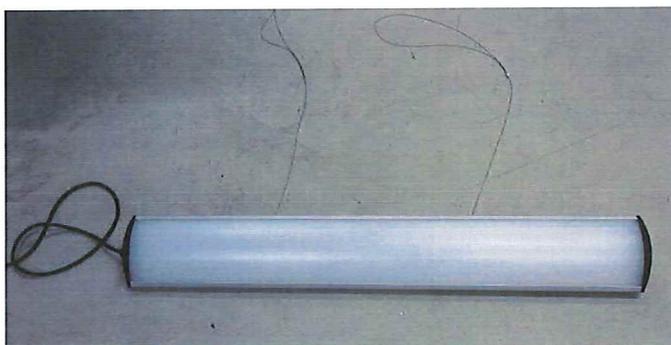
Not applicable

Covered through the applied standard

Covered by the following comment

Covered by attached risk analysis

### 1.3 Technical Data





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## 2 Order

### 2.1 Date of Purchase Order, Customer's Reference

09.11.2017, Neoline A/S

### 2.2 Receipt of Test Sample, Location

06.12.2017, TÜV SÜD Product Service GmbH Garching Storix 330129

### 2.3 Date of Testing

09.11.2017 - 15.12.2017

### 2.4 Location of Testing

TÜV SÜD Product Service GmbH, Daimlerstrasse 11, 85748 Garching, Germany

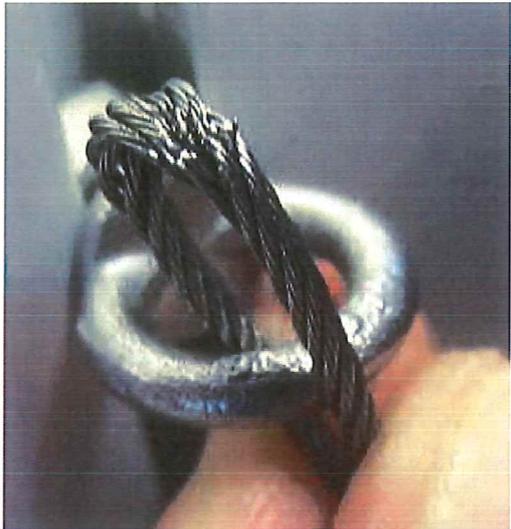
### 2.5 Points of Non-compliance or Exceptions of the Test Procedure

non

### 3 Test Results

At the ceiling, LED Neonlight 1500S, article no. 1702104063, tests according to DIN 18032-3 section 6.1 and DIN 57710 part 13 (VDE 0710 part 13) sections 7, 18 point j) 1 - mechanical requirements - testing of ceiling lights and section 22 have been performed. The test results **fulfill** the mentioned test specifications.

F	Technische Prüfung entsprechend DIN 18032-3 Abschnitt 6.1 und DIN 57710 Teil 13 (VDE 0710 Teil 13) Abschnitte 7, 18 Punkt j) 1 und 22 – mechanische und elektrische Anforderungen - Prüfung von Deckenleuchten..	/	
F.1	<p>Mit einem wettkampfgerechten Handball, mit einer Masse von 425 bis 475 g, einem Durchmesser von 18,5 bis 19,1 cm und einem Innendruck von 1,2 bar (Überdruck) werden insgesamt 36 Schüsse mit einer Aufprallgeschwindigkeit von <math>(16,5 \pm 0,8)</math> m/s auf die Leuchte abgegeben. Dabei wird jeweils 12mal senkrecht gegen die Leuchte geschossen und dann jeweils 12mal aus zwei verschiedenen Richtungen unter einem Winkel von <math>60^\circ</math> (gemessen als Winkel zwischen Auftreffrichtung und Oberflächenebene der Leuchte). Die Schüsse werden so abgegeben, daß die Treffer möglichst gleichmäßig auf die Oberfläche der Leuchte verteilt sind, wobei die Schüsse vorzugsweise auf die vermutlich schwachen Stellen abgegeben werden.</p> <p>~~</p> <p>With a competition handball, with a mass of 425-475 g, a diameter of 18,5 to 19,1 cm and an internal pressure of 1,2 bar (overpressure) 36 shots with an impact velocity of <math>(16,5 \pm 0,8)</math> m / s submitted to the lamp. In each case, 12 times vertical shot against the light, and then each 12 times from two different directions at an angle of <math>60^\circ</math> (measured as the angle between direction of incidence and the surface plane of the lamp). The shots are distributed equally over the surface of the lamp, the shots are fired preferably on the presumably weak points.</p>	<p>Die Funktionsfähigkeit des Strahlers war nach den Versuchen noch gegeben.</p> <p>Die Anforderungen werden erfüllt.</p> <p><b>Empfehlung:</b> Die Befestigungsschrauben für die Drahtseilaufhängung sollten mit einem Selbstsicherungslack versehen sein.</p>  <p>Hinweis: Im Anlieferungszustand waren schon einige Litzen vom Drahtseil gebrochen (siehe Foto).</p>	P/C

		 <p>~~</p> <p>After the ball-shoot tests, the functionality was still given.</p> <p>The requirements are fulfilled.</p> <p><b>Recommendation:</b> The mounting screws for the wire rope suspension should be provided with a self-locking compound.</p> <p>Note: Some strands of the wire rope were already broken at the time of delivery (see photo).</p>	
F 2	<p>Hochspannungsprüfung bei 1480 V / Isolationsprüfung / Ableitstromprüfung / Schutzleiterprüfung / Funktionsprüfung</p> <p>~~</p> <p>High voltage testing / isolation testing / leakage current testing / earth protection testing / function testing</p>	<p>Erfüllt</p> <p>~~</p> <p>Fulfilled</p>	P

### 3.1 Points of non-compliance according to the test specification

non

### 4 Remark

The user manual and label have not been examined. The manufacturer is responsible for the accuracy of further particulars as well as of the composition and layout.



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#### 4.1 Remarks to Factory

The assembly of the product has to comply with the documentation (CDF). Before the implementation of safety relevant modifications to the product into the ongoing production the product must be retested for assessment. The results must be implemented to the documentation and if necessary the certificate must be updated.  
The production facility was not inspected.

#### 5 Summary

At the ceiling, LED Neonlight 1500S, article no. 1702104063, tests according to DIN 18032-3 section 6.1 and DIN 57710 part 13 (VDE 0710 part 13) sections 7, 18 point j) 1 - mechanical requirements - testing of ceiling lights and section 22 have been performed. The test results **fulfill** the mentioned test specifications.

TÜV SÜD Product Service GmbH

Engineer

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Technical Report checked

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