



**ELECTROTECHNICAL TESTING INSTITUTE**  
**Pod Lisem 129**  
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No. of the Test Report: 604927-01/01

Issued: 8. 11. 2016



## TEST REPORT

**Name of product:** LED lamp  
**Type of product:** URBINO LED, URBANO LED  
**Ratings:** -  
**Serial number:** -  
**Manufacturer:** LUG Light Factory Sp. z o.o.,  
ul. Gorzowska 11, 65-127 Zielona Góra,  
the Republic of Poland  
**Production site:** LUG Light Factory Sp. z o.o.,  
ul. Gorzowska 11, 65-127 Zielona Góra,  
the Republic of Poland  
**Ordering firm:** LUG Light Factory Sp. z o.o.,  
ul. Gorzowska 11, 65-127 Zielona Góra,  
the Republic of Poland  
**Number of tested samples:** 2  
**Samples submitted on:** 24. 10. 2016  
**Location of testing:** EZÚ  
**Tested from** 2. 11. 2016 **through** 4. 11. 2016  
**Other data:** -  
**The product was tested according to:** ČSN EN 60068-2-6 ed.2:08, idt EN 60068-2-6:08  
idt. IEC 60068-2-6:07

Compiled by: Jiří Bažant



Approved by: Jarmil Mikulík  
Testing laboratory manager

Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.  
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## **SPECIMEN DESCRIPTION**

There were submitted LED lamps for testing, type URBINO LED and URBANO LED.

## **TESTING**

The tests were performed according to ČSN EN 60068-2-6 ed.2:2008 (idt EN 60068-2-6:08, idt. IEC 60068-2-6:2007), Vibration test with parameters according to ČSN EN 60598-1 ed. 6:2015 (mod IEC 60598-1:2014).

### **Testing equipment**

Vibration testing system LDS - V830-335 SPA8-16K  
Control system PUMA, testing program SINUS  
Acceleration sensor 353B33, manufacturer PCB

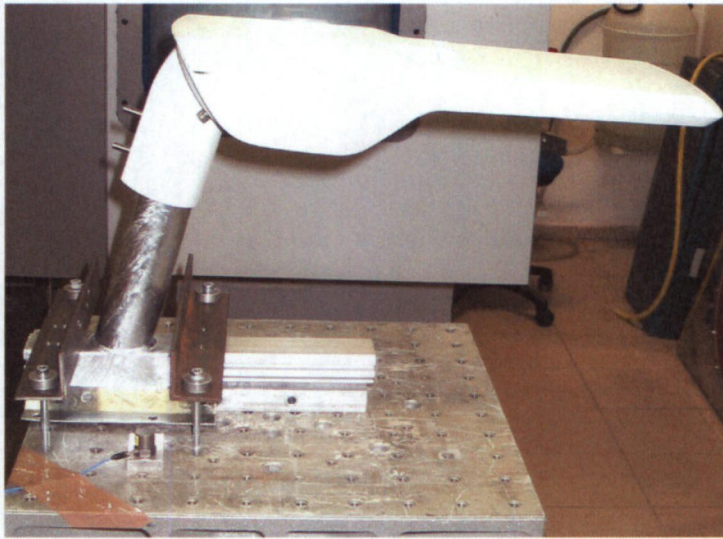
inv. No. 110128/1-5  
inv. No. 110148  
inv. No. 551333

### **Parameters of test**

|                 |                            |
|-----------------|----------------------------|
| Frequency range | 10 Hz, 55 Hz, 10 Hz        |
| Amplitude       | 0,35 mm                    |
| Sweep rate      | 1 octave / min             |
| Duration        | 30 min                     |
| Direction       | the most onerous direction |



### Specimen 1

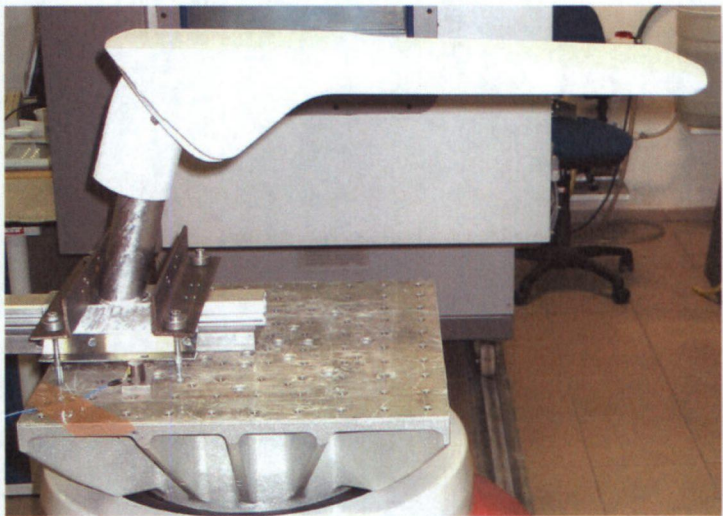


clamping of specimen



functional test

### Specimen 2



clamping of specimen



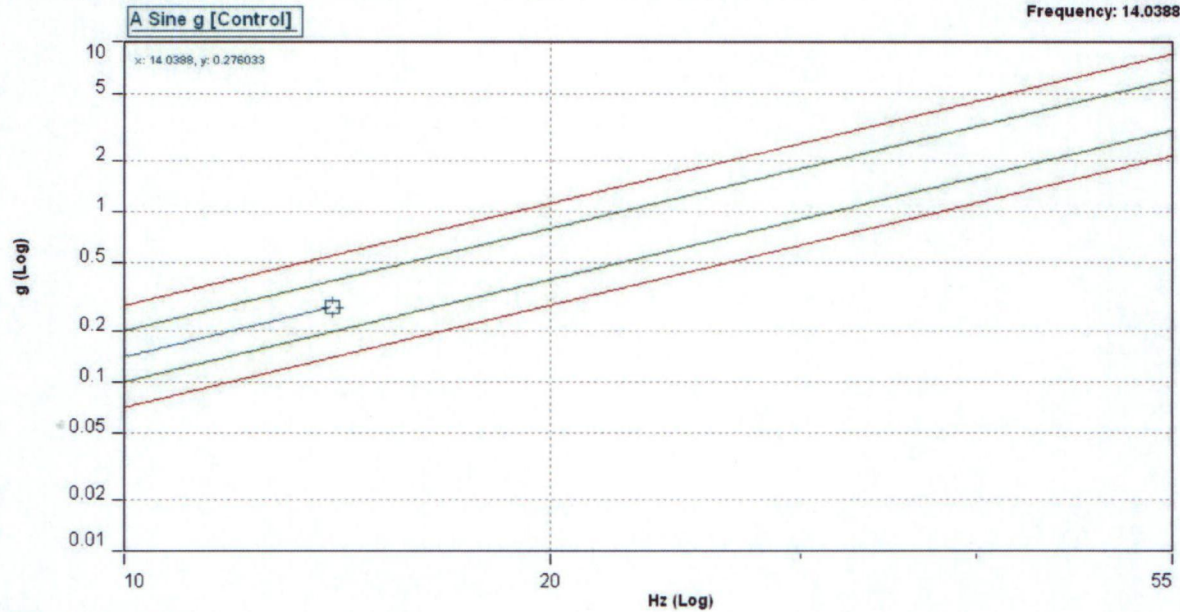
functional test



# Record of test courses - Vibration test (operation)

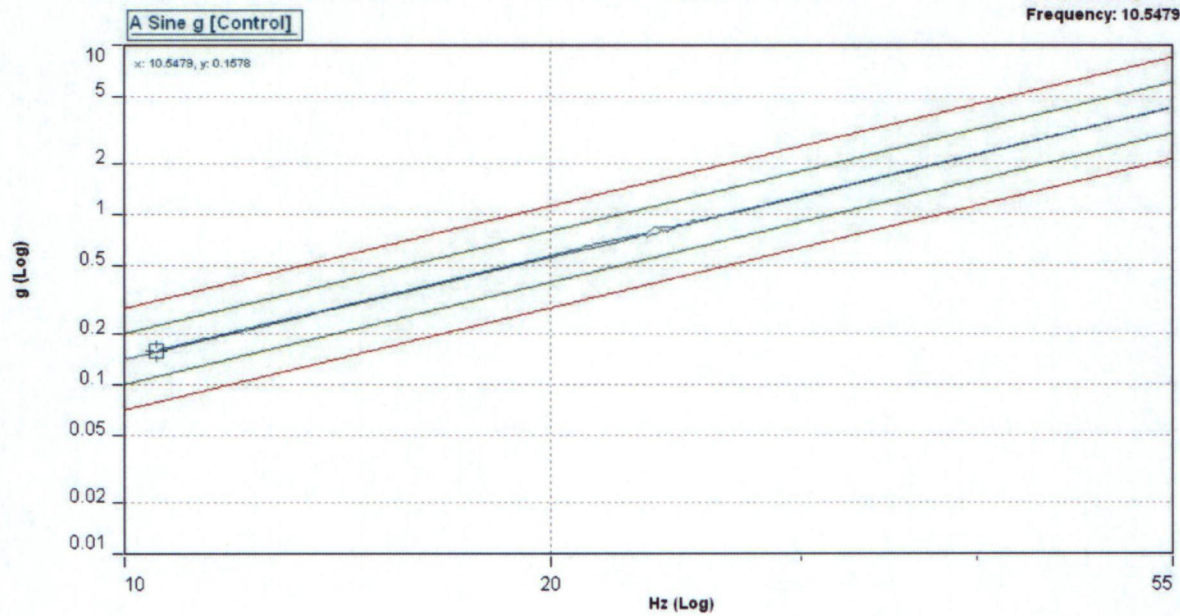
Sweep #: 12.2000  
Sweeps Remaining: 0.0000 **LUG 1** **Date: 11/03/16**

CTRL: 0.2760 g  
Frequency: 14.0388



Sweep #: 1.9695  
Sweeps Remaining: 10.2305 **LUG 2** **Date: 11/04/16**

CTRL: 0.1578 g  
Frequency: 10.5479



## TEST RESULT

After the tests there were detected no visible mechanical damage on the specimen, the test did not affected the specimen's functionality.

  
Tested by: J. Bažant