



TEST REPORT

Test Report No.: 910312-01/01

Issued: 31. 1. 2019

Name of product: Street lighting
Type of product: URBANO LED
Ratings: 220-240 V, 50-60 Hz, 144 W, LED, IP 66
Serial number: -
Manufacturer: LUG Light Factory Sp. z o.o.
ul. Gorzowska 11, 65-127 Zielona Góra,
Republic of Poland
Production site: -
Ordering firm: LUG Light Factory Sp. z o.o.
ul. Gorzowska 11, 65-127 Zielona Góra,
Republic of Poland
Number of tested samples: 1
Samples submitted on: 11. 8. 2015
Location of testing: Elektrotechnický zkušební ústav, s. p.
Tests performed from 11. 8. 2015 through 25. 8. 2015
Other data: -
Tested according to: ČSN EN 60598-1 ed. 5:2009 +A11:2009, cl. 9.2
(idt. IEC 60598-1:2008 +A11:2008, cl. 9.2)

Compiled by: Josef Šašek



Approved by: Jiří Bažant
Testing laboratory technical manager

No. of pages: 7

No. of annexes: 0

No. of annexes pages: 0

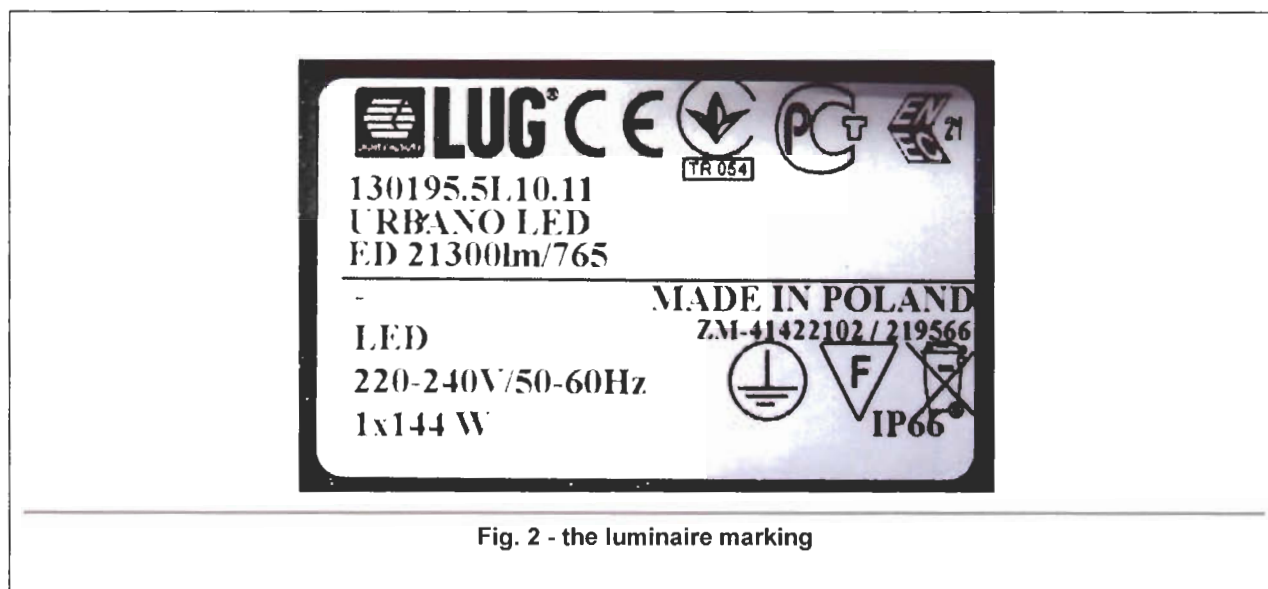
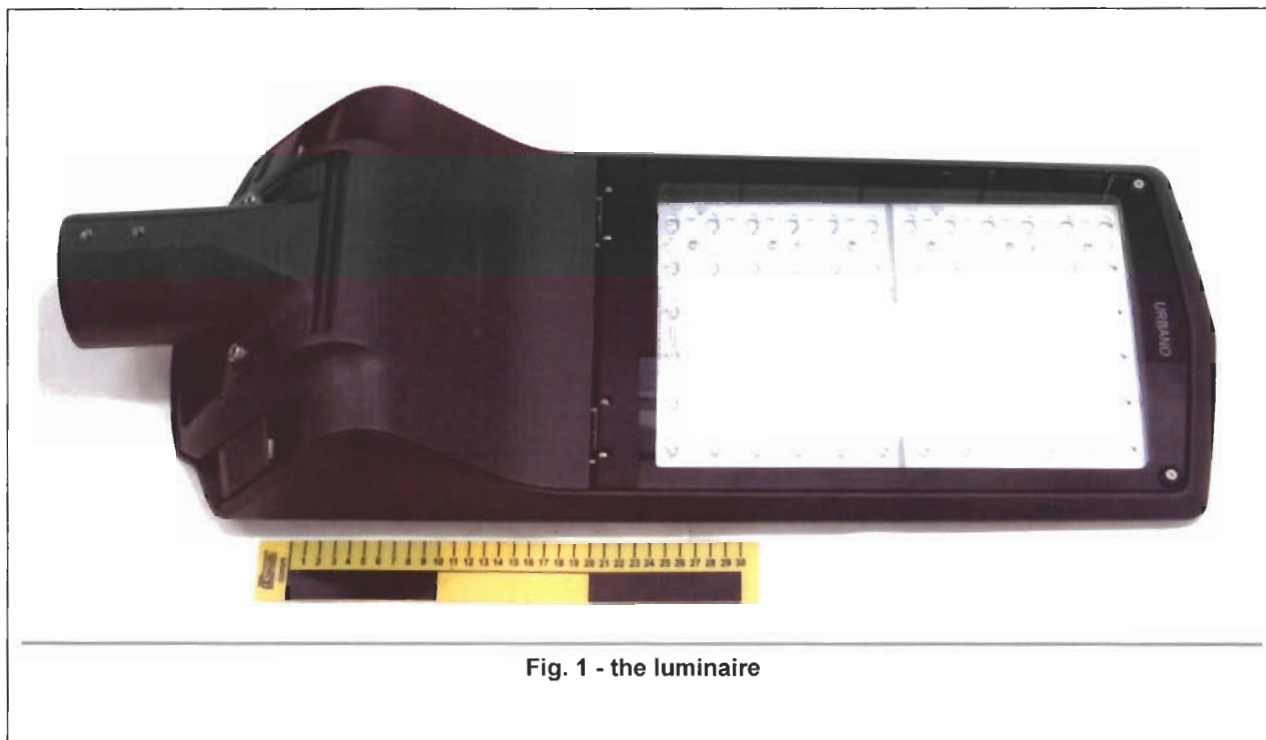
Test results stated in the test report apply only to the tested subject and unless specified otherwise in the test report, the tests were performed using the method and under the conditions determined in the test regulations, technical norm, instructions for use and information provided by the manufacturer on the tested subject and using accessories required by the manufacturer.
Without written consent of Elektrotechnický zkušební ústav, s. p., this report must not be reproduced in any other way than as a whole.

Tel.: 266 104 111, Fax: 284 680 070, www.ezu.cz

1. Specimen description

The **street lighting URBANO LED** was provided for testing.

The luminaire is not equipped with drain holes.



2. Testing

The test results were taken from the Test Report No. 501261-01/06.

2.1 Tests for ingress of dust, solid objects and moisture

according to ČSN EN 60598-1 ed. 5:2009 +A11:2009 (idt. IEC 60598-1:2008 +A11:2008), cl. 9.2

2.1.1 Dust-tight luminaires - IP 6X

according to ČSN EN 60598-1 ed. 5:2009 +A11:2009 (idt. IEC 60598-1:2008 +A11:2008), cl. 9.2, 9.2.1 and 9.2.2

Test apparatus:

dust chamber VST 1150, inv. No. 834490

Test parameters:

dust filling of the chamber: talcum powder

light source: LED module 144 W

power source: AC 230 V, 50 Hz

temperature / RH during the test: 55 °C / 30 %

duration of test: 3 h achieving the operating temperature

1 min dust dispersion, the luminaire is operated

3 h dust dispersion, the luminaire is not operated

Findings:

During the test, no dust penetrated into the luminaire.

passed

2.1.2 Powerful water jet-proof luminaires - IP X6

according to ČSN EN 60598-1 ed. 5:2009 +A11:2009 (idt. IEC 60598-1:2008 +A11:2008), cl. 9.2 and 9.2.7

Test apparatus:

water jet hose nozzle Ø 12,5 mm model 6990, inv. No. 110267

stopwatch SECCO, cal. No. N700477

Test parameters:

The luminaire was tested in an operating position.

testing: see Fig. 3

light source: LED module 144 W

power source: AC 230 V, 50 Hz

water flow rate: 100 l·min⁻¹ ±5 %

distance: cca 3 m from the specimen

duration of test: 3 h achieving the operating temperature

3 min water jetting

Immediately after the test, electric strength test was performed (see section 2.1.3).

Findings:

During the test, no water penetrated into the luminaire.

passed



Fig. 3 - IP X6 test

2.1.3 Electric strength test

according to ČSN EN 60598-1 ed. 5:2009 +A11:2009 (idt. IEC 60598-1:2008 +A11:2008), cl. 10.2.2, table 10.2

Test apparatus:

HV tester HA3881G-DI, inv. No. 110229

Test parameters:

The test was performed immediately after IP X6 test.

test voltage: 1460 V, 50 Hz

duration of voltage application: 60 s

test voltage was applied between L+N and PE

Findings:

During the test, neither electric breakdown nor flashover occurred.

passed

3. Photodocumentation - design of the specimen

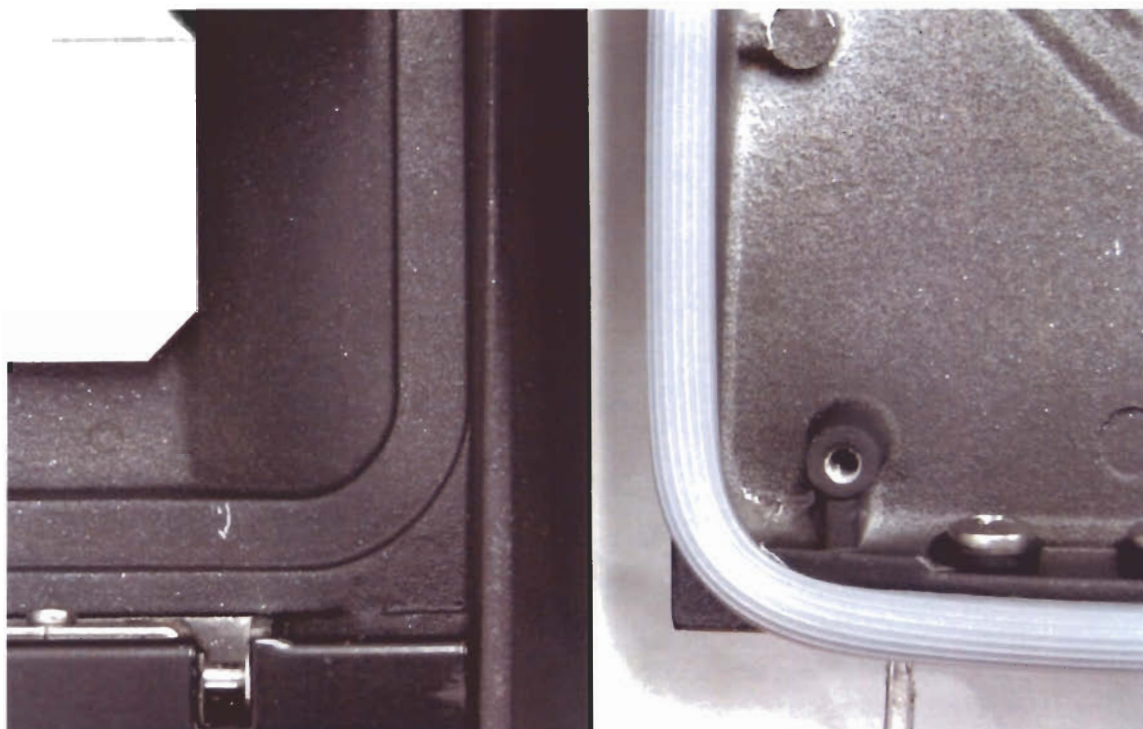


Fig. 4 - gasket of the luminaire (power supply part)



Fig. 5 - gasket of the luminaire (LED module part)



Fig. 6 - cable gland



Fig. 7 - cover hinge screw gasket

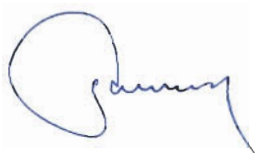
4. Test result

The submitted specimen

street lighting URBANO LED

satisfies

conditions for degree of protection provided by enclosures **IP 66** according to ČSN EN 60598-1 ed. 5:2009 +A11:2009 (idt. IEC 60598-1:2008 +A11:2008), cl. 9.2.



Tested by: J. Šašek

end of Test Report