



TEST REPORT

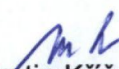
Test Report No.: 912327-01/02

Issued: 28. 8. 2019

Name of product: LUMINAIRE - Streetlighting
Type of product: URBINO LED NEMA SOCKET
Ratings: 120-277 V, 50-60 Hz, 80 W
Serial number: -
Manufacturer: LUG Light Factory Sp. z o.o.
ul. Gorzowska 11, 65-127 Zielona Góra,
Republic of Poland
Production site: LUG Light Factory Sp. z o.o.,
ul. Gorzowska 11, 65-127 Zielona Góra,
Republic of Poland
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: 5. 6. 2019
Location of testing: Elektrotechnický zkušební ústav, s. p.
Tests performed from 5. 6. 2019 through 16. 8. 2019
Other data: -
Tested according to: EN 60598-1:2015, cl. 9.2


Compiled by: Josef Šašek




Approved by: Martin Kříž
Testing laboratory manager

No. of pages: 7

No. of annexes: 0

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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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1. Specimen description

Luminaire - street lighting URBINO LED NEMA SOCKET was provided for testing.

The luminaire is not equipped with drain holes.

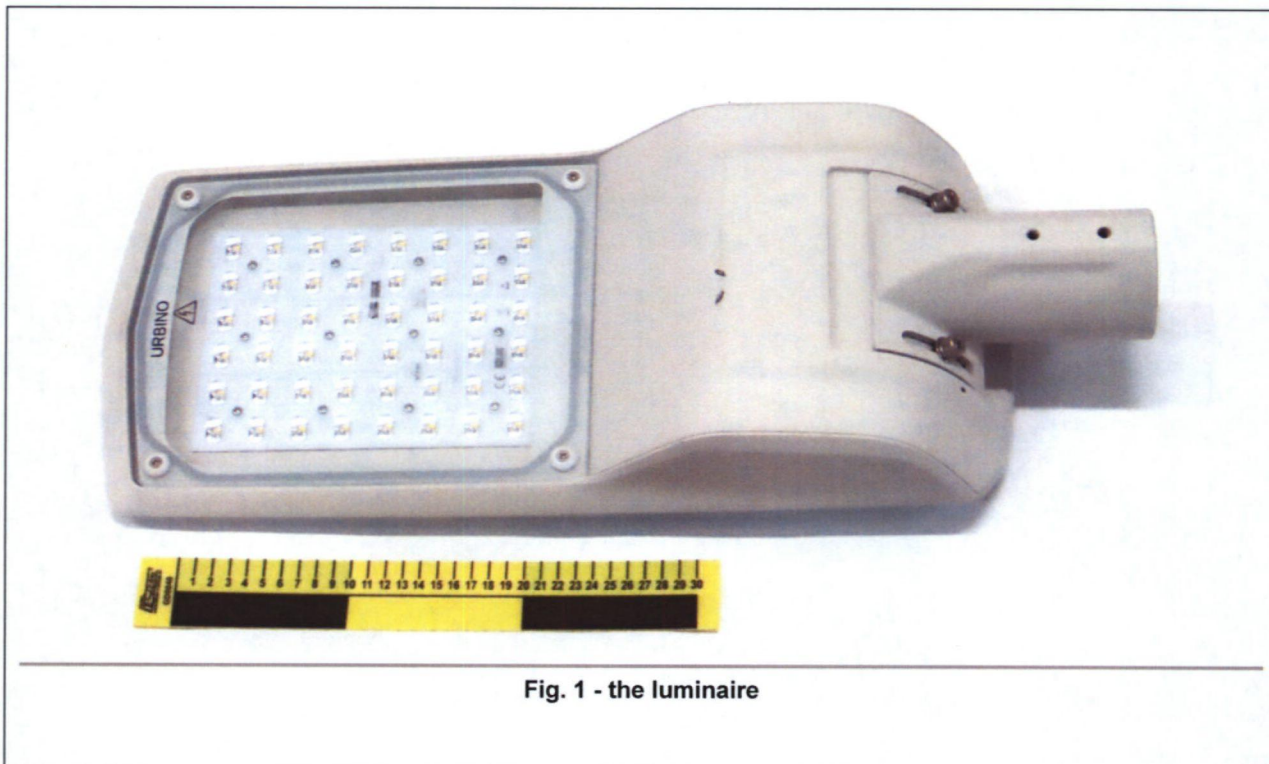


Fig. 1 - the luminaire



Fig. 2 - the luminaire marking

2. Testing

The test results were taken from Test Report No. 911485-01/01.

2.1 Tests for ingress of dust, solid objects and moisture according to EN 60598-1:2015, cl. 9.2

2.1.1 Dust-tight luminaires - IP 6X

according to EN 60598-1:2015, cl. 9.2, 9.2.1 and 9.2.2

Test apparatus:

dust chamber P 14.42, inv. No. 110343

Test parameters:

dust filling of the chamber: talcum powder

light source: LED modules 80 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

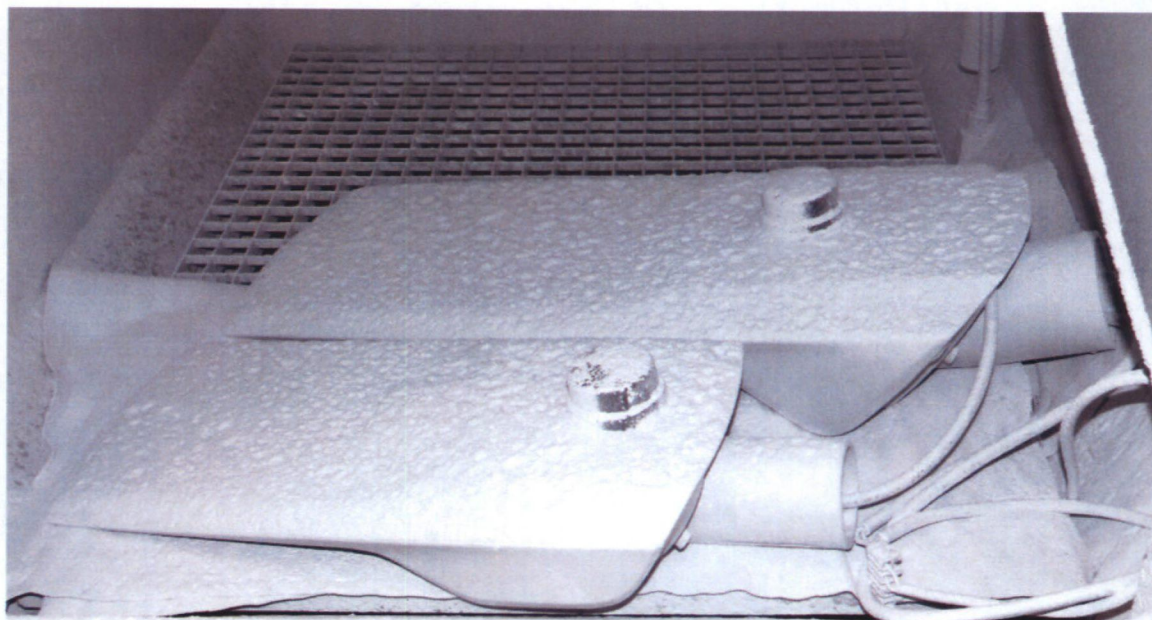


Fig. 3 - the luminaire after IP 6X test

2.1.2 Powerful water jet-proof luminaires - IP X6

according to EN 60598-1:2015, cl. 9.2 and 9.2.7

Test apparatus:

water jet hose nozzle \varnothing 12,5 mm model 6990, inv. No. 110267
stopwatch JS-5000, cal. No. N700267

Test parameters:

The luminaire was tested in an operating position.

testing: see Fig. 4

light source: LED modules 80 W

power source: AC 230 V, 50 Hz

water flow rate: $100 \text{ l} \cdot \text{min}^{-1} \pm 5 \%$

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

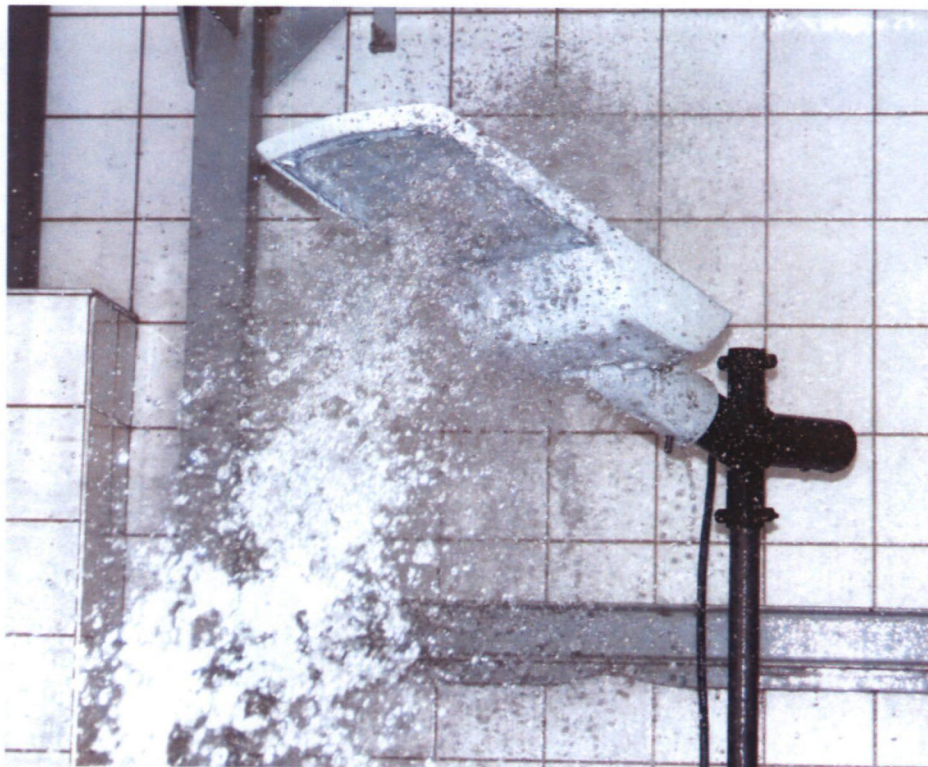


Fig. 4 - IP X6 test

2.1.3 Electric strength test

according to EN 60598-1:2015, 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

surge protective device was disconnected

Findings:

During the test, neither electric breakdown nor flashover occurred.

passed

3. Photodocumentation - design of the specimen



Fig. 5 - gasket of the luminaire

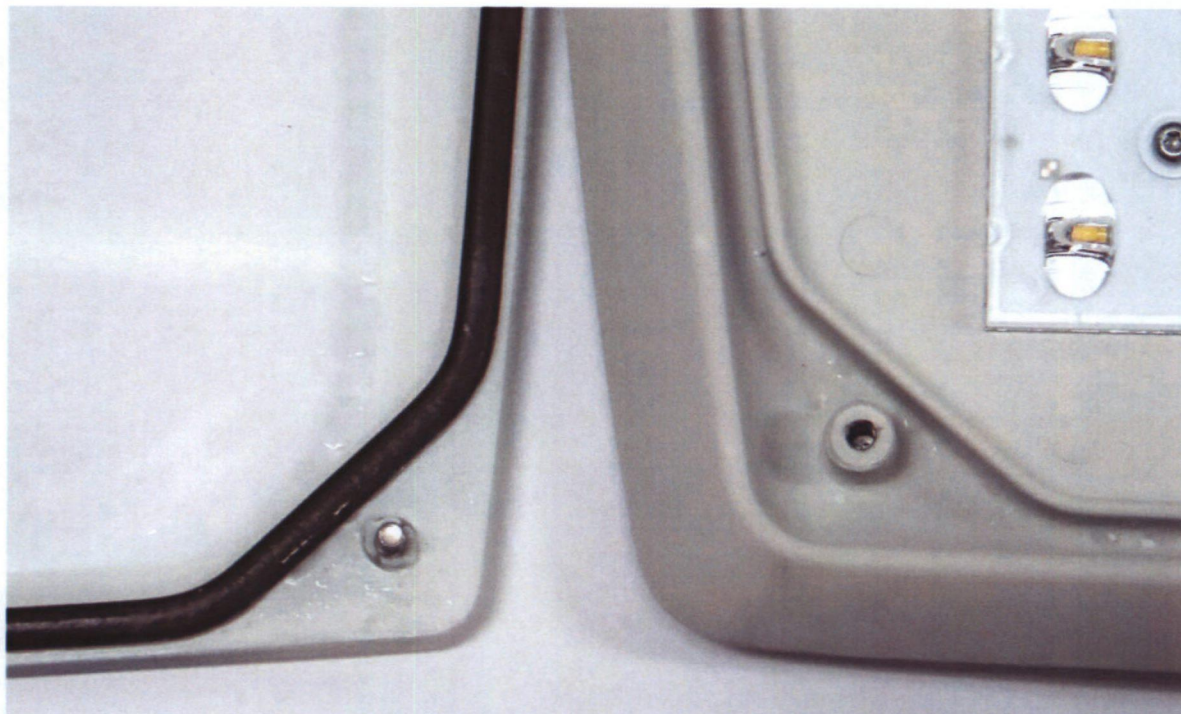


Fig. 6 - gasket of the luminaire



Fig. 7 - NEMA socket



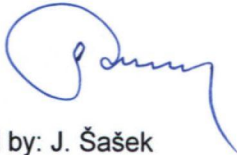
5. Test result

The submitted specimen

luminaire - street lighting URBINO LED NEMA SOCKET

satisfies

conditions for degree of protection provided by enclosures **IP 66** according to EN 60598-1:2015, cl. 9.2.



Tested by: J. Šašek

end of Test Report