



**OŚRODEK BADAŃ
ATESTACJI I CERTYFIKACJI**
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44-121 Gliwice
Laboratorium L A B O R E x
ul. Aronii 4
44-102 Gliwice



AB 1340

Gliwice, 12.11.2020

TEST REPORT

from test No. 2/LL/304/2020/A

Subject: Verification of the maximum of IK protection degree
PN-EN 62262:2003 of SP-401 airport luminaires

Test results are related to tested subject. Without written permission of LABOREx Laboratory this report cannot be disseminated differently but as whole document.

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REGON: 273725355
Kapitał zakładowy – 400 000,00 PLN
KRS: 0000161774 Sąd Rejonowy w Gliwicach
X Wydział Gospodarczy Krajowego Rejestru Sądowego

1. Clients name and address:

Solutions4GA Sp. z o.o.
57 Gen. Sylwestra Kaliskiego street
01-476 Warsaw

2. Contract/errand/order number:

0445/OBAC/2677/CW/20

3. Case identification number given by Laboratory:

LL/304/2020

4. Place of performing tests:

Laboratorium LABOREx
4 Aronii street
44-102 Gliwice

5. Date of delivery of test samples:

09.11.2020

6. Description, status and identification of tested subject:

Tested object: SP-401 Lamps, 3 lamps were delivered to the laboratory.

Year of prod.: 2020

Sample number given by the laboratory: 2/LL/304/2020/01÷03

Samples delivered by the client:



Photo 2. View of the SP-401 Lamps

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7. Date(s) of performing tests:

10.11.2020

8. Tests range and identification of method applied:

No.	Tested magnitude	Standards applied	Accredited method
1.	Verification of the maximum of IK protection degree	PN-EN 62262:2003	yes

9. Equipment used to perform tests:

No.	Equipment name	Identification number
1.	Rigid rule	A/036/LL
2.	Beater for tests with energy 10J (acc. to EN 50102:1995)	A/214/01/LL
3.	Hytherograph LB-522B	A/207/LL

Apparatus was inspected prior to the tests – apparatus works correctly.

10. Test performance and results

The results and associated uncertainties relate only to the tested sample and may not relate to any part of product / substance / material.

Measurement uncertainty was determined according to the document EA-4/02. These uncertainties are expanded uncertainty at the 95% confidence level and coverage factor $k = 2$.

10.1. Verification of the maximum of IK protection degree

The tests were carried out at temperature of $(22.5 \pm 2,0) ^\circ\text{C}$ and relative humidity of $(38.9 \pm 3,0) \%$.

The tests were carried out on the sample-marking of the laboratory 2/LL/304/2020/01.

The test was carried out with the energy of 20J using the beater with the mass of 5.0kg lowered onto the tested object from the height of 0.4m. The test was carried out on the one sample of the SP-401 Lamp.

As part of the test, 5 impacts were made to each available surface of the tested object.

The lamp antenna was not installed during the test.

Table 1. Test results

Place of impact	Impact energy [J]	Result
A	20	no damage
B	20	no damage
C	20	no damage
D	20	no damage
E	20	no damage

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Photo 2. View of the beater with the mass of 5.0kg

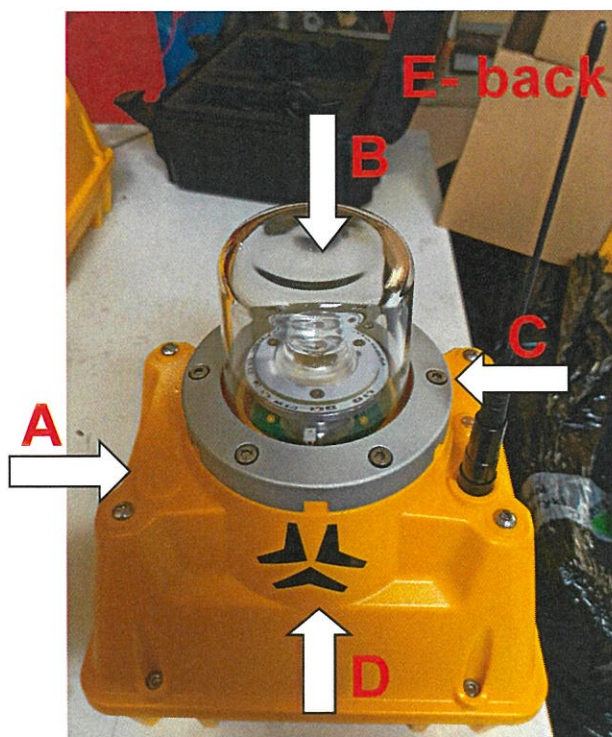


Fig. 1. View of the beater impact locations

11. Test result

As a result of the performed tests, no damage was found to the tested sample. The tested sample **meets** the requirements of IK10 protection degree.

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**Ośrodek Badań, Atestacji i Certyfikacji „OBAC” Sp. z o.o.
Laboratorium LABOREx**

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Tests performed by:

12.11.2020
Date

Kazimierz Zakrzewski
name and surname


Research Specialist
position


signature

12.11.2020
Date

Maciej Kucypera
name and surname

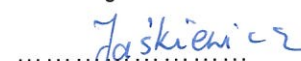
Research Specialist
position


signature

12.11.2020
Date

Marcin Jaśkiewicz
name and surname

Research Assistant
position

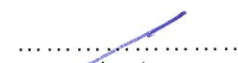

signature

Checked and verified by:

12.11.2020
Date

Wojciech Bobecki
name and surname

Laboratory Manager
position


signature

END OF REPORT

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