

BOSMAL Automotive Research and Development Institute Ltd

TESTING LABORATORIES

Sarni Stok 93, 43-300 Bielsko-Biała, POLAND

Phone: +48 33 8130 567, 547 Fax: (48) 33 8130441 E-mail: bosmal@bosmal.com.pl

Date: 26.04.2022

Electrotechnics and Electronics Department

Electrotechnics, Electronics and Photometry Testing Laboratory

PCA POLSKIE ČENTRUM AKREDYTACJI BADANIA



TEST REPORT

Number: BOS/2441/BE/22

Subject: Thermal testing of Precision Approach Path Indicator (PAPI)

Ordered by: Solutions4GA Sp. z o.o.

/Name and address// ul. Gen. Sylwestra Kaliskiego 57

01-476 Warszawa

ORDER		TESTING	
Number	Date	Commenced	Completed
-	13.04.2022	24.04.2022	25.04.2022

Written by:

Marcin Legierski
/First name, last name/

Authorized by:

Piotr Michałek /First name, last name/ //Signature/

Report contains:

7 pages

CHECKED BY:

KIEROWNIK ZAKŁADU Elektrotechniki i Elektroniki

mgr inż. Wojciech Sawicz

/Stamp, Date, Signature/

APPROVED BY:

Instytut Badań i Rozwoju Motoryzacji BOSMAL Sp. z o.o.

DYEARCTOR ds. BADAN

/Stand bate signature

צ	
200	
≝	
3	
<u></u>	
ğ	
붌	
σ	
2	
Ļ	
⋛	
5	
٥	
σ	
3	
Ξ	
Ĕ	
ā.	
10	
≶	
2	
es	
e	

		Report to:
Nº 1	Customer	N° 7
Nº 2	NRP BOSMAL	N° 8
Nº 3	BE BOSMAL	N° 9
Nº 4		Nº 10
Nº 5		Nº 11
Nº 6		Nº 12

	TEST REPORT	Page:	Pages:
Number:	BOS/2441/BE/22	2	7

1. TESTED OBJECT

Precision Approach Path Indicator (PAPI)

Supplier: Solutions4GA Sp. z o.o.

Model: LED PAPI S4GA

Marking(by Customer): LED PAPI S4GA 1 x 80W, L880, Style B, Class I

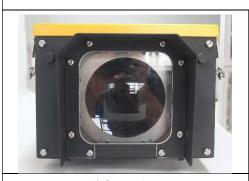
Dimension: 908mm×325mm×235mm (l×w×h)

Quantity: 1 pc

Sampling method: delivered by Customer on 19.04.2022



a) overall view





b) front view

c) side view





d) back view

e) power supply

Fig. 1 Tested object

	TEST REPORT	Page:	Pages:
Number:	BOS/2441/BE/22	3	7

2. RANGE OF THE TEST

Thermal testing according to Customer requirements (e-mail of 24.03.2022). Test method according to PN-EN 60068-2-78:2013-11 - Test Cab: Damp heat, steady state.

3. RUN OF THE TEST AND TEST RESULTS

The test was performed in climatic chamber – Fig 2. Test parameters:

- temperature: (55±1)°C;
- relative humidity (95±3)%;
- exposure duration: 8h;
- recovery time: 1h;
- state of device during the test: unpowered;
- the functionality check was performed before the test and 15 min before the end of exposure time (powering on for 15 minutes);
- visual examination before and after the test;
- temperature and humidity record during the test Fig. 3.

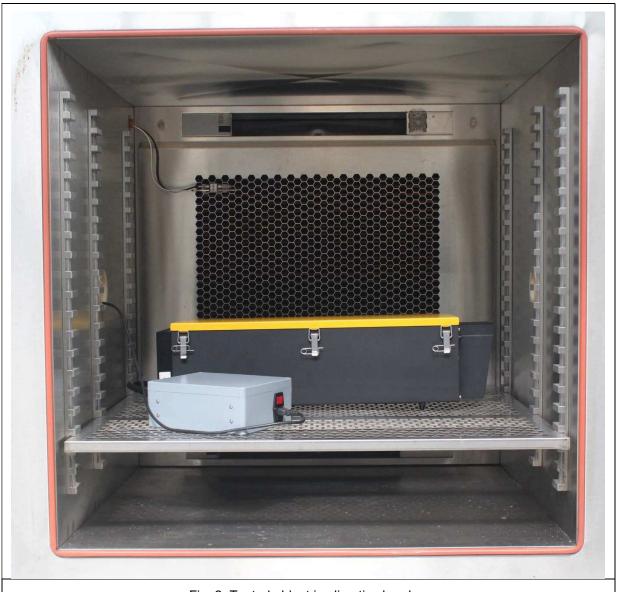


Fig. 2 Tested object in climatic chamber

	TEST REPORT	Page:	Pages:
Number:	BOS/2441/BE/22	4	7

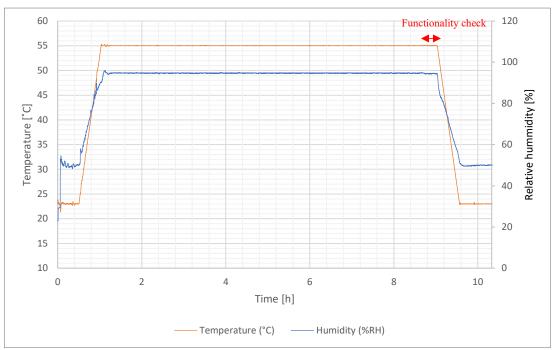


Fig. 3 Temperature and humidity record during the test

Test result

No visual changes after the test were observed. The functionality of tested object has been preserved. Tested object after the test - Fig. 4.



BOSMAL/P-7-01/22 (F6e)

B\$SMAL®

TEST REPORT Page: Pages:

Number: BOS/2441/BE/22 5 7



BOSMAL/P-7-01/22 (F6e)

B\$SMAL®

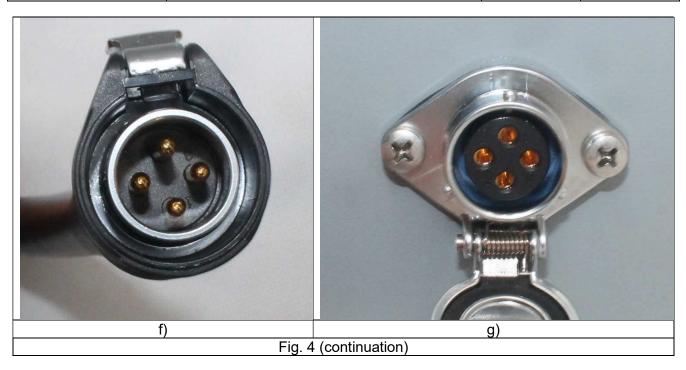
 TEST REPORT
 Page:
 Pages:

 Number:
 BOS/2441/BE/22
 6
 7





	TEST REPORT	Page:	Pages:
Number:	BOS/2441/BE/22	7	7



Measuring apparatus:

Identification N°	Description	Calibration date	Next calibration
X/0608/BE	Climatic chamber EXCAL 14025 HE	07.2021	07.2022

End of the Test Report