



**ASSOCIATION of POLISH ELECTRICIANS
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since 1933

TESTING LABORATORY



AB 044



TEST REPORT

IEC 62471

Photobiological safety of lamps and lamp systems

Report Reference No.....: LO-17.028/III/A1/E
Date of issue: 2017-09-18
Amendment No. 1: 2017-10-25
Total number of pages 4

Tested by
(name + position + signature): Kamil Dobrowolski senior specialist

Authorized by
(name + position + signature): Mieczysław Sudnik senior specialist

Testing application number: B-O-17-028

Test item reference.....: S-O-17-028

Scope of test.....: - type test - partial test

Test specification:

Standard/procedure: PN-EN 62471:2010
 EN 62471:2008
 IEC 62471:2006 (First Edition)

Non-standard test methods.....: N/A

Non-accredited test methods : N/A

Applicant's name.....: LARS Andrzej Szymański

Address: ul. Świerkowa 14
64-320 Niepruszewo

Test item description: Recessed luminaires for use in clinical areas of hospitals and health care buildings with non-user replaceable LED module

Trade Mark: www.lars.pl

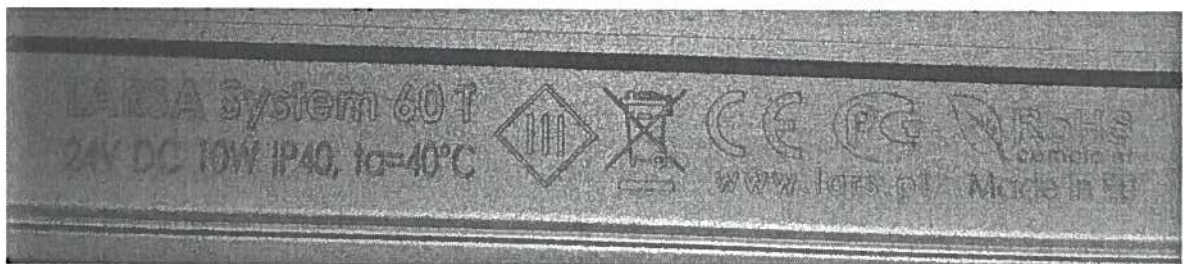
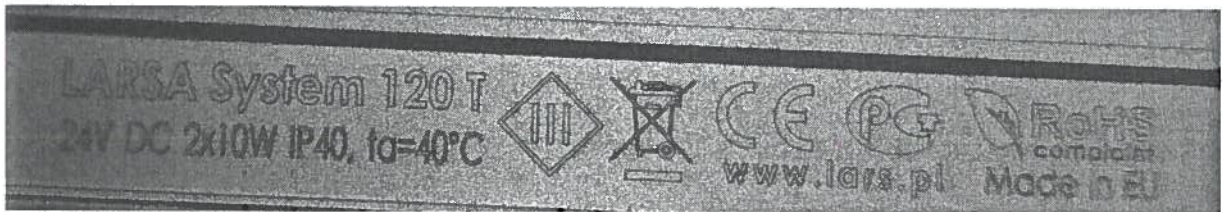
Manufacturer.....: LARS Andrzej Szymański

Model/Typ reference.....: LARSA SYSTEM; type: S, T, TU

Ratings: 24V DC; IP 40; class III; ta40°C; CCT 4100K;
60cm 10W, 120 cm 2x10W

List of Attachments:	
Summary of testing:	
Tests performed (in the case of partial tests):	Testing location:/ address (if different from page 1):
Number of tests with F(Fail) verdict	0
Summary conformity/non-conformity with standardization document (if apply)	The product fulfils the requirements of PN-EN 62471:2010 for Risk Group 1.
Summary of compliance with National Differences (if apply): Provide list of standards.	N/A
Opinions and interpretation, if needed:	N/A
Other additional information (as requested by the applicant): .	N/A.

Copy of marking plate:





Test item particulars		
Tested lamp	<input checked="" type="checkbox"/> continuous wave lamps <input type="checkbox"/> pulsed lamps	
Tested lamp system		
Lamp classification group	<input type="checkbox"/> exempt <input checked="" type="checkbox"/> risk 1 <input type="checkbox"/> risk 2 <input type="checkbox"/> risk 3	
Lamp cap	---	
Bulb	---	
Rated of the lamp	10W; 2x10W; 24V DC	
Furthermore marking on the lamp	---	
Seasoning of lamps according IEC standard	---	
Used measurement instrument	BLACK-COMET BLK-C-SR + IC2 + F600-UUVis-SR	
Temperature by measurement	25±2 °C	
Information for safety use	---	
Possible test case verdicts:		
- test case does not apply to the test object.....: N/A		
- test object does meet the requirement		: P (Pass)
- test object does not meet the requirement		: F (Fail)
Testing:		
Date of receipt of test item	: 2017-07-18	
Date (s) of performance of tests	: 2017-09-06+2017-09-14	
General remarks:		
1. The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.		
2. "(See Enclosure #)" refers to additional information appended to the report..		
3. "(See appended table)" refers to a table appended to the report		
4. Throughout this report a comma is used as the decimal separator.		
5. Test Report Form is based on TRF Nr IEC62471A + EU_GD_IEC62471A, copyrighted by IECCE.		
Production place(s):		
LARS Andrzej Szymański ul. Świerkowa 14 64-320 Niepruszewo		
General product information:		
Recessed luminaires for use in clinical areas of hospitals and health care buildings with non-user replaceable LED module from LARSA SYSTEM family, types:		
a) 60cm – 10W		
b) 120cm – 2x10W		
with diffuser:		
i) S – milk diffuser		
ii) T – transparent diffuser		
iii) TU – transparent diffuser with low UGR factor		
Tested sample:		
1. LARSA SYSTEM T 10W (60cm)		
Luminaires are equipped with LED module type: L129V1, L129V2, L129V2W1 or L129V2W2. LED module made by LARS Andrzej Szymański based on LED chips type PLCC 2835 HE series manufactured by EDISON Opto Corporation.		

**Amendment No. 1**

Introduction of the amendment to the description of the product in the original Test Report No. LO-17.028/II/E dated on 2017-09-18:

- I. On page 1 in **Test item description**:
 - a) was: "Recessed luminaires for use in clinical areas of hospitals and health care buildings with **non-replaceable** LED module";
 - b) should be: "Recessed luminaires for use in clinical areas of hospitals and health care buildings with **non-user replaceable** LED module".
- II. On page 3 in **General product information**:
 - a) was: "Recessed luminaires for use in clinical areas of hospitals and health care buildings with **non-replaceable** LED module";
 - b) should be: "Recessed luminaires for use in clinical areas of hospitals and health care buildings with **non-user replaceable** LED module".
 - c) tested sample:
 - i) was:
 - 1.LARSA SYSTEM T 10W (60cm)
 - ii) should be:
 - 1.LARSA SYSTEM 60T (10W 60cm)

No additional test was needed.