Test Report issued under the responsibility of:

TEST REPORT
IEC 62471
Photobiological safety of lamps and lamp systems

Report Reference No. ..... :	18-01-02
Date of issue ..... :	2018-01-31
Total number of pages ..... :	
Testing Laboratory..... :	SAMSUNG ELECTRONICS Co., Ltd.
Address ..... :	1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Korea
Applicant's name ..... :	SAMSUNG ELECTRONICS Co., Ltd.
Address ..... :	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
Test specification:	
Standard..... :	IEC 62471:2006 (First Edition)
Test procedure ..... :	N/A
Non-standard test method……..:	N/A
Test Report Form No. ..... :	IEC62471A
TRF Originator ..... :	VDE Testing and Certification Institute
Master TRF ..... :	Dated 2009-05

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Test item description ..... :	LED PKG (LM282B+)
Trade Mark ..... :	SAMSUNG
Manufacturer ..... :	Same as Testing Laboratory
Model/Type reference ..... :	SPMWH*221FQ******* (Tested sample : SPMWH1221FQ5GBPMSA)
Ratings ..... :	DC 160 mA / 6,54 V

Testing procedure and testing location:	
☐ **Testing Laboratory**:	SAMSUNG ELECTRONICS Co., Ltd. (LED Biz.)
Testing location/ address ..... :	1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Korea
☐ **Associated Laboratory:**	
~~Testing location/ address ..... :~~	
~~Tested by (name + signature)..... :~~	
~~Approved by (+ signature) ..... :~~	
☐ ~~Testing procedure: TMP~~	
~~Tested by (name + signature)..... :~~	
~~Approved by (+ signature) ..... :~~	
~~Testing location/ address ..... :~~	
☐ ~~Testing procedure: WMT~~	
~~Tested by (name + signature)..... :~~	
~~Witnessed by (+ signature) ..... :~~	
~~Approved by (+ signature) ..... :~~	
~~Testing location/ address ..... :~~	
☐ ~~Testing procedure: SMT~~	
~~Tested by (name + signature)..... :~~	
~~Approved by (+ signature) ..... :~~	
~~Supervised by (+ signature)..... :~~	
~~Testing location/ address ..... :~~	
☐ ~~Testing procedure: RMT~~	
~~Tested by (name + signature)..... :~~	
~~Approved by (+ signature) ..... :~~	
~~Supervised by (+ signature)..... :~~	
~~Testing location/ address ..... :~~	

Summary of testing:	
Tests performed (name of test and test clause): - The sample was applied DC 160 mA following by applicant request. - The sample was measured at 25℃.	**Testing location:** SAMSUNG ELECTRONICS Co., Ltd 1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Korea
Summary of compliance with National Differences: The sample(s) tested complies with the requirements of IEC 62471:2006 and EN 62471:2008. See Attachment at the end of this report for compliance with European Group Difference and National Differences.	
Copy of marking plate:	

Test item particulars .....:

Tested lamp ..... : ☒ continuous wave lamps ☐ pulsed lamps

Tested lamp system .....:

Lamp classification group (IEC).....: ☒ exempt ☐ risk 1 ☐ risk 2 ☐ risk 3

Lamp classification group (EN)..... ☐ exempt ☒ risk 1 ☐ risk 2 ☐ risk 3

Lamp cap ..... :

Bulb ..... :

Rated of the lamp .....: See Page 1

Furthermore marking on the lamp .....:

Seasoning of lamps according IEC standard .....:

Used measurement instrument.....:

Temperature by measurement .....: 24.0 - 25.0 °C

Information for safety use.....: Not required

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 .....: 2018-01-17

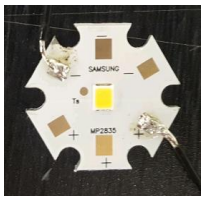
Date (s) of performance of tests .....: 2018-01-26~2018-01-30

General remarks:

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.
"(See Enclosure #)" refers to additional information appended to the report.
"(See appended table)" refers to a table appended to the report.
Throughout this report a comma (point) is used as the decimal separator.
List of test equipment must be kept on file and available for review.

General product information:

- PKG : LM282B+
- CCT : 6500K
- CRI : 80
- Flux rank : SA
- Tested current : DC 160 mA
- A photo of test sample.



Throughout this report a ☒ comma / ☐ point is used as the decimal separator.