

Test Report issued under the responsibility of:



TEST REPORT
IEC 62471
Photobiological safety of lamps and lamp systems

Report Reference No. : 16-10-05
Date of issue : 2016-10-10
Total number of pages :

Testing Laboratory : SAMSUNG ELETRONICS Co., Ltd.
Address : 1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Korea

Applicant's name : SAMSUNG ELETRONICS 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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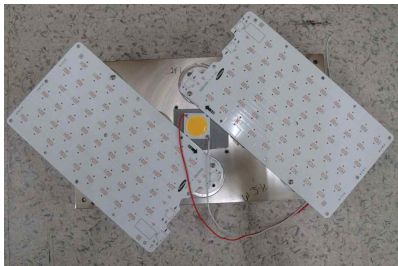
This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

Test item description : LED PKG
Trade Mark : SAMSUNG
Manufacturer : Same as Testing Laboratory

Model/Type reference : SPHWAHDNM251ZR3U2
Ratings : DC 1 620 mA / 50,53 V

Testing procedure and testing location:	
<input checked="" type="checkbox"/> Testing Laboratory: Testing location/ address :	SAMSUNG ELETRONICS Co., Ltd. (LED Biz.) 1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Korea
<input type="checkbox"/> Associated Laboratory: Testing location/ address : Tested by (name + signature)..... : Approved by (+ signature) :	
<input type="checkbox"/> Testing procedure: TMP Tested by (name + signature)..... : Approved by (+ signature) : Testing location/ address :	
<input type="checkbox"/> Testing procedure: WMT Tested by (name + signature)..... : Witnessed by (+ signature)..... : Approved by (+ signature) : Testing location/ address :	
<input type="checkbox"/> Testing procedure: SMT Tested by (name + signature)..... : Approved by (+ signature) : Supervised by (+ signature)..... : Testing location/ address :	
<input type="checkbox"/> 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): <ul style="list-style-type: none">- The sample was applied DC 1 620mA following by applicant request.- The measurement was conducted according to the requirements of TR IEC/EN62778 in conjunction with IEC 62471. All relevant clauses were considered.- The sample was measured at 122°C(tc).	Testing location: <p>SAMSUNG ELETRONICS Co., Ltd 1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Korea</p>
Summary of compliance with National Differences: <p>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.</p>	
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	LED
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	2016-10-04
Date (s) of performance of tests	2016-10-05 ~ 2016-10-07
General remarks:	
<p>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.</p>	
General product information:	
<p>Tested products are LED PKG as a light source, model information can be found in the table on next page. The following PKG is tested as representative model.</p> <ul style="list-style-type: none"> - PKG : LC080D - CCT : 5000K - CRI : 80 - Flux rank : U2 - Tested current : DC 1 620 mA - A photo of test sample. 	
	
Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.	