

Test Report issued under the responsibility of:



**TEST REPORT**  
**IEC 62471**  
**Photobiological safety of lamps and lamp systems**

**Report Reference No.** ..... : 17-03-08

**Date of issue** ..... : 2017-03-22

**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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**Test item description** ..... : LED PKG

**Trade Mark** ..... : SAMSUNG

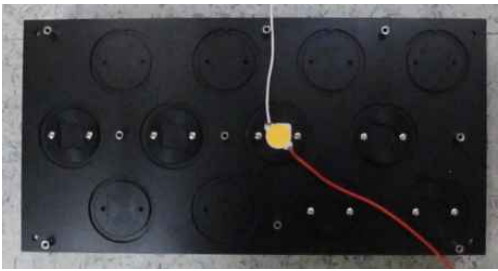
**Manufacturer** ..... : Same as Testing Laboratory

**Model/Type reference** ..... : SPHWAHDNH25YZR3D2

**Ratings** ..... : DC 900 mA / 34,7 V

Testing procedure and testing location:	
<input checked="" type="checkbox"/> <b>Testing Laboratory:</b>	SAMSUNG ELETRONICS Co., Ltd. (LED Biz.)
Testing location/ address .....	1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Korea
<input type="checkbox"/> <b>Associated Laboratory:</b>	
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 .....	

<b>Summary of testing:</b>	
<b>Tests performed (name of test and test clause):</b> <ul style="list-style-type: none"><li>- The sample was applied DC 900mA following by applicant request.</li><li>- The measurement was conducted according to the requirements of TR IEC/EN62778 in conjunction with IEC 62471. All relevant clauses were considered.</li><li>- The sample was measured at 47,5°C(tc).</li></ul>	<b>Testing location:</b> SAMSUNG ELETRONICS Co., Ltd 1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Korea
<b>Summary of compliance with National Differences:</b>  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.	
<b>Copy of marking plate:</b>	

<b>Test item particulars</b> .....	
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	
<b>Possible test case verdicts:</b>	
– 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)	
<b>Testing:</b>	
Date of receipt of test item .....	2017-03-15
Date (s) of performance of tests .....	2017-03-21 ~ 2017-03-22
<b>General remarks:</b>	
<p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> <p>"(See Enclosure #)" refers to additional information appended to the report.</p> <p>"(See appended table)" refers to a table appended to the report.</p> <p>Throughout this report a comma (point) is used as the decimal separator.</p> <p>List of test equipment must be kept on file and available for review.</p>	
<b>General product information:</b>	
<p>Tested products are LED PKG as a light source, model information can be found in the table on next page.</p> <p>The following PKG is tested as representative model.</p> <ul style="list-style-type: none"> <li>- PKG : LC033D Gen2</li> <li>- CCT : 5000K</li> <li>- CRI : 80</li> <li>- Flux rank : D2</li> <li>- Tested current : DC 900 mA</li> <li>- A photo of test sample.</li> </ul>	
	
Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.	