APPLICATION FOR CERTIFICATION
On Behalf of
Philips Lighting(China) Investment Co., Ltd.
LED Lamps

Model No.	:	9290012575A
Brand	:	Philips
IC	:	20812-2575AX

Prepared for

Philips Lighting(China) Investment Co., Ltd.
Building 9, Lane 888, Tian Lin Road, Minhang district, Shanghai, China

Prepared by

Audix Technology (Wujiang) Co., Ltd. EMC Dept.
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Report Number	:	ACWE-F1703012A
Date of Test	:	Mar.31~Apr.21, 2017
Date of Report	:	Apr.24, 2017

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TEST REPORT CERTIFICATION

Applicant	:	Philips Lighting(China) Investment Co., Ltd.
Manufacturer	:	Philips Lighting(China) Investment Co., Ltd.
EUT Description	:	LED Lamp
IC	:	20812-2575AX
(A) Model No.	:	9290012575A
(B) Brand	:	Philips
(C) Power Supply	:	AC 110-130V, 50/60Hz
(D) Test Voltage	:	AC 120V, 60Hz

The measurement results are contained in this test report and Audix Technology (Wujiang) Co., Ltd. EMC Dept. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this test report shows that the EUT to be technically compliant with the FCC limits.

This test report applies to above tested sample only. This test report shall not be reproduced in part without written approval of Audix Technology (Wujiang) Co., Ltd. EMC Dept.

Date of Test: Mar.31~Apr.21, 2017 Date of Report: Apr.24, 2017

Prepared by : Emma Hu
(Emma Hu/Assistant Administrator)

Reviewer : Danny Sun
(Danny Sun/ Deputy Manager)

Approved & Authorized Signer : Ken Lu
(Ken Lu/Assistant General Manager)

1. DESCRIPTION OF VERSION

Edition No.	Date of Rev.	Summary	Report No.
0	Apr.01, 2017	Original Report.	ACWE-F1703012
Rev. A	Apr.24, 2017	Add a new LED board.	ACWE-F1703012A

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	:	LED Lamp
Model No.	:	9290012575A
IC	:	20812-2575AX
Brand	:	Philips
Applicant	:	Philips Lighting(China) Investment Co., Ltd. Building 9, Lane 888, Tian Lin Road, Minhang district, Shanghai, China
Manufacturer	:	Philips Lighting(China) Investment Co., Ltd. Building 9, Lane 888, Tian Lin Road, Minhang district, Shanghai, China
Radio Technology	:	IEEE 802.15.4 (ZigBee®)
Antenna Gain	:	3.1dBi
Fundamental Range	:	2405 MHz -2480MHz
Tested Frequency	:	2405MHz (CH11) 2450MHz (CH20) 2475MHz (CH25) 2480MHz (CH26)
Channel Setting Method	:	Channel is changed via atmel production test application.
Highest Working Frequency	:	2.4GHz
Modulation type	:	O-QPSK
Date of Receipt of Sample	:	Mar.30, 2017
Date of Test	:	Mar.31~Apr.21, 2017

Remarks for Rev.A:

1. This report is based on the original report ACWE-F1703009.

2. This report adds a new LED board. It has effect on the test result, so we retest the items which are under the influence. The test result was recorded in this report ACWE-F1703009A. Please refer to original report ACWE-F1703009 if you want to check the other test data.

2.2. Description of Test Facility

Name of Firm	:	**Audix Technology (Wujiang) Co., Ltd. EMC Dept.**
Site Location	:	No. 1289 Jiangxing East Road, the Eastern Part of Wujiang Economic Development Zone Jiangsu China 215200
Test Facilities	:	**RF Fully Chamber**
NVLAP Lab Code	:	200786-0 Valid until on Sep.30, 2017 (NVLAP is a signatory member of ILAC MRA) Remark: This report shall not be imply endorsement, certification or approval by NVLAP, NIST, or any agency of the U.S. Federal Government.

2.3. Measurement Uncertainty

Test Item	Uncertainty
Maximum Peak Output Power	± 0.12dB

Remark: Uncertainty = $ku_c(y)$

3. SUMMARY OF STADARDS AND RESULTS

3.1. Specification Limits

According to RSS-102 Issue5, RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

•below 20 MHz6 and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1 W (adjusted for tune-up tolerance);

• at or above 20 MHz and below 48 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $4.49/f$0.5W (adjusted for tune-up tolerance), where f is in MHz;

• at or above 48 MHz and below 300 MHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 0.6 W (adjusted for tune-up tolerance);

• at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 1.31 x 10-2 f0.6834 W (adjusted for tune-up tolerance), where f is in MHz;

• at or above 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than 5 W (adjusted for tune-up tolerance).

3.2. Calculated Result

Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Limit (W)
2405	3.1	4.84	7.94	0.0062	2.6787
2450	3.1	4.53	7.63	0.0058	2.7129
2475	3.1	4.24	7.34	0.0054	2.7317
2480	3.1	-3.61	-0.51	0.00089	2.7355

The Duty Cycle is 100%