APPLICATION FOR CERTIFICATION

On Behalf of

Philips Lighting(China) Investment Co., Ltd.

LED Lamps

Model No. : 9290013016

Brand : Philips

FCC ID : 2AGBW9290013016X

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-F1612006

Date of Test : Nov.16~26, 2016

Date of Report : Dec.08, 2016

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TEST REPORT CERTIFICATION

TEST REPORT CERTIFICATION						
Applicant	:	Philips Lighting(China) Investment Co., Ltd.				
Manufacturer	:	Philips Lighting(China) Investment Co., Ltd.				
EUT Description		LED Lamp				
FCC ID		2AGBW9290013012X				
(A) Model No.	: @	9290013012				
(B) Brand	: .	Philips				
(C) Power Supply		AC 110-130V, 60Hz				
(D) Test Voltage		AC 120V, 60Hz				
Applicable Standards						
Applicable Standards:						
KDB 447498 D01						
The device described above was tested by Audix Technology (Wujiang) Co., Ltd. EMC Dept. to determine the maximum emission levels emanating from the device.						
EMC Dept. is assumed fi	ıll respons	ined in this test report and Audix Technology (Wujiang) Co., Ltd. sibility for the accuracy and completeness of these measurements. EUT to be technically compliant with the FCC limits.				
		sted sample only. This test report shall not be reproduced in part Technology (Wujiang) Co., Ltd. EMC Dept.				
Date of Test: Nov.16~26,	2016	Date of Report: Dec.08, 2016				
Prepared by		: Emma lu				
Trepared by		(Emma Hu/Assistant Administrator)				
n ·		Dann Lan				
Reviewer		(Dangy Sun / Danyty Managan)				
		(Danny Sun/ Deputy Manager)				
Approved & Authorized S	Signer	Les lu				

(Ken Lu/Assistant General Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : LED Lamp

Model No. : 9290013016

FCC ID : 2AGBW9290013016X

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 : 5dBi

Fundamental Range : 2405 MHz -2480MHz

Tested Frequency : 2405MHz (CH11)

2450MHz (CH20) 2475MHz (CH25) 2480MHz (CH26)

Channel Setting Method : Channel is changed according to EUT's power on or

power off.

Highest Working

Frequency

: 2.4GHz

Modulation type : O-QPSK

Date of Receipt of Sample : Oct.28, 2016

Date of Test : Nov.16~26, 2016

1.2. 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.

1.3. Measurement Uncertainty

Test Item	Uncertainty
Maximum Peak Output Power	± 0.12dB

Remark: Uncertainty = $ku_c(y)$

2. RADIO FRREQUENCY EXPOSURE COMPLIANCE RESULT

Test Standard: FCC KDB Publication 447498 D01 Clause 4.3.1

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

 $[\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step b below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

According to the actual measurement,

max. power of channel, including tune-up tolerance =3.07mW min. test separation distance= 5mm

 $\sqrt{f_{(GHz)}}=1.55$

The test result is 0.95≤3.0 for 1-g SAR≤ 7.5 for 10-g SAR, hence the EUT is excluded from SAR evaluation according to FCC KDB Publication 447498 D01: General RF Exposure Guidance V06.