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RF Exposure Evaluation Declaration

Product Name: LED Lamp

Model No. : 9290011369B

FCC ID : 2AGBW9290011369BX

Applicant: Philips Lighting(China) Investment Co.,Ltd.

Address: Building 9,Lane 888,Tian Lin Road,Minhang

district, Shanghai, China

Date of Receipt: Apr. 19th, 2017

Test Date : Apr. 19th, 2017~ Apr. 28th, 2017

Issued Date : May. 05th, 2017

Report No. : 1742090R-RF-US-P20V01

Report Version: V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by CNAS, TAF or any agency of the government. The test report shall not be reproduced without the written approval of DEKRA Testing & Certification (Suzhou) Co., Ltd.



Test Report Certification

Issued Date: May. 05th, 2017

Report No.: 1742090R-RF-US-P20V01



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Address : Building 9,Lane 888,Tian Lin Road,Minhang

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Manufacturer : Philips Lighting(China) Investment Co.,Ltd.
Address : Building 9,Lane 888,Tian Lin Road,Minhang

district, Shanghai, China

Model No. : 9290011369B

FCC ID : 2AGBW9290011369BX EUT Voltage : AC 110-130V/50/60Hz

Test Voltage : AC 120V/60Hz

Applicable Standard : KDB 447498D01V06

FCC Part1.1310

Test Result : Complied

Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.

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FCC Registration Number: 800392

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Reviewed By :

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Approved By :

Harry show

(Engineering Manager: Harry Zhao)



1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2)	Average Time (Minutes)		
(A) Limits for Occupational/ Control Exposures						
300-1500			F/300	6		
1500-100,000			5	6		
(B) Limits for General Population/ Uncontrolled Exposures						
300-1500			F/1500	6		
1500-100,000			1	30		

F= Frequency in MHz

Friis Formula

Friis transmission formula: Pd = (Pout*G)/(4*pi*r2)

Where

Pd = power density in mW/ cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

Product	:	LED Lamp
Test Item	:	RF Exposure Evaluation
Test Site	:	AC-6

• Antenna Information

Antenna manufacturer	N/A							
Antenna Delivery	\boxtimes	1*TX+1*RX						
Antenna technology	\boxtimes	SISO						
		MIMO		Basic				
				CDD				
				Beam-forming				
Antenna Type	External			Dipole				
				PIFA				
			\boxtimes	PCB				
	Internal		Ceramic Chip Antenna					
				Microstrip Patch Antenna				
Antenna Gain	5dBi							

Power Density

Standlone modes:

Test Mode	Frequency Band (MHz)	EIRP (dBm)	Power Density at $R = 20 \text{ cm}$ (mW/cm^2)	Limit of Power Density S(mW/cm ²)
Zigbee	2405 ~ 2480	6.367	0.00086	1

Note: The standlone transmission power density is 0.00086 mW/cm² for LED Lamp withoเ	ıt any
other radio equipment.	

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