



BUREAU VERITAS

Test Report No.: FM190710N058



RF EXPOSURE REPORT

Applicant	GE Lighting
Address	1975 Noble Road, Cleveland, Ohio, United States 44112

Manufacturer or Supplier	GE Lighting
Address	1975 Noble Road, Cleveland, Ohio, United States 44112
Product	CbyGE Wireless Smart Switch
Brand Name	GE
Model	CWLSWCCBWF1
Additional Model & Model Difference	CWLSWDMBWF1
Date of tests	Jul. 10, 2019 ~ Aug. 06, 2019

- FCC Part 2 (Section 2.1091)
- KDB 447498 D01
- IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Lucas Chen Project Engineer / EMC Department	Approved by Glyn He Supervisor/ EMC Department
	
	Date: Aug. 13, 2019

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM190710N058	Original release	Aug. 13, 2019

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1. CERTIFICATION

FCC ID:	PUU-CWLSWXXBWF1
PRODUCT:	CbyGE Wireless Smart Switch
BRAND NAME:	GE
MODEL NO.:	CWLSWCCBWF1
ADDITIONAL NO.:	CWLSWDMBWF1
APPLICANT:	GE Lighting
STANDARDS:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

3. MPE CALCULATION FORMULA

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = 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

4. CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	3.5	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT-LE(GFSK)	2402-2480	4	+1	3	5

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
BT-LE(GFSK)	2402	4.06

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2402-2480	5	3.5	20	0.00141	1.0

--- END ---