
EMF TEST REPORT

Application No. : TB13035196

Applicant : BREE LIGHTING Co., LIMITED

Equipment Under Test (EUT)

EUT Name : Led Flood Light

Model No. : BR-FL-10W-01-PIR
BR-FL-10W, BR-FL-20W, BR-FL-30W, BR-FL-50W,
BR-FL-70W, BR-FL-100W, BR-FL-120W, BR-FL-140W,


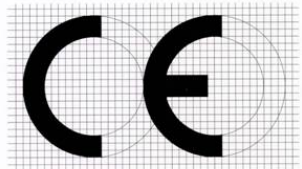
Serial No. : BR-FL-20W-01-PIR, BR-FL-30W-01-PIR,
BR-FL-50W-01-PIR, BR-FL-10W-01-RGB,
BR-FL-20W-01-RGB, BR-FL-30W-01-RGB,
BR-FL-60W-01-RGB.


Brand Name : BREE LIGHTING

Issue Date : 2013-2-25

Standards : EN 62493:2010

Conclusions : **PASS**
In the configuration tested, the EUT complied with the standards specified above.
The EUT technically complies with the 2006/95/EC directive requirements.

Test/Witness Engineer :  

Approved & Authorized : 

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TEST REPORT EN 62493:2010 Assessment of lighting equipment related to human exposure to electromagnetic fields	
Report Number	TB-EMF136903
Total number of pages	6
Testing Laboratory	Shenzhen Toby Technology Co., Ltd.
Address	10/F., A Block, Jiada R & D Bldg., No.5 Songpingshan Road, Science & Technology Park, Nanshan District, Shenzhen, China
Applicant's name	BREE LIGHTING Co., LIMITED
Address	Bld. M & J, Maoyuan Industrial, Zhangkenjing Xiawei, Guanlan, Bao'an, Shenzhen, China
Manufacturer's name	BREE LIGHTING Co., LIMITED
Address	Bld. M & J, Maoyuan Industrial, Zhangkenjing Xiawei, Guanlan, Bao'an, Shenzhen, China
Test specification:	
Standard.....	EN 62493:2010
Test procedure	LVD
Non-standard test method.....	N/A
Test item description	
Trade Mark	BREE LIGHTING
Manufacturer	BREE LIGHTING Co., LIMITED
Model/Type reference.....	BR-FL-10W-01-PIR
Ratings	AC220-240V 280mA 50-60Hz 10W
Test item particulars	
Classification of installation and use.....	Class I
Supply Connection	Directly connect to supply mains
Operating condition	continuous
Equipment mobility.....	Fixed
IP protection class	N.A.
Mass of equipment (kg)	0.75kg
Possible test case verdicts	
- 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)
Testing	
Date of receipt of test item.....	2013-02-17
Date(s) of performance of tests	2013-02-18 to 2013-02-22

General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(see Enclosure #)" refers to additional information appended to the report.

"(see appended table)" refers to a table appended to the report.

Throughout this report a comma / point is used as the decimal separator.

Manufacturer's Declaration per sub-clause 6.2.5 of IEC62361-2:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided

 Yes

 Not applicable

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) : Same as Manufacturer

General product information:

All test conducted on the model BR-FL-10W-01-PIR considered the worst condition.

Model list :

Model	Power	Input voltage	Size	Input frequency
BR-FL-10W-01-PIR	10W	AC 220-240V	--	50-60 Hz
BR-FL-10W	10W		--	
BR-FL-20W	20W		--	
BR-FL-30W	30W		--	
BR-FL-50W	50W		--	
BR-FL-70W	70W		--	
BR-FL-100W	100W		--	
BR-FL-120W	120 W		--	
BR-FL-140W	140 W		--	
BR-FL-20W-01-PIR	20 W		--	
BR-FL-30W-01-PIR	30 W		--	
BR-FL-50W-01-PIR	50 W		--	
BR-FL-10W-01-RGB	10 W		--	
BR-FL-20W-01-RGB	20 W		--	
BR-FL-30W-01-RGB	30 W		--	

BR-FL-60W-01-RGB	60W		--	
Remark: All the models have the same constructions, PCB layout, and LED sources. They are only different with size and rated power.				

Summary of testing:

The product has been tested according to standard EN 62493: 2010.

Copy of marking plate

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

Rating label for model

4.2	APPLICATION OF LIMITS (Test summary)		P
	Specific absorption rate (SAR)		P
a)	CISPR 15 clause 4.3.1 Disturbance voltage mains terminals 20 kHz – 30 MHz	*)	P
b)	CISPR 15 clause 4.4 Radiated electromagnetic disturbances 100 kHz – 30 MHz	*)	P
c)	CISPR 15 clause 4.4.2 Radiated electromagnetic disturbances 30 MHz – 300 MHz	*)	P
*)	<input checked="" type="checkbox"/> See separate Test Report for measurements of a), b) and c) above Test Report with Ref. No.: ES120706023E <input checked="" type="checkbox"/> Only measurement of d) below. See measurement results below. In this case this test report does not show compliance with EN 62493.		—
	Induced current density		
d)	Induced current density 20 kHz – 10 MHz	See measurement results below	P

4.2.d	INDUCED CURRENT DENSITY	P
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	Power supply system utilised:		—
	Voltage :	AC 230V	—
	Frequency :	50Hz	—
	Environmental conditions:		—
	Temperature :	23 °C	—
	Humidity:	55%	—
	EuT operation mode:		—
	<input checked="" type="checkbox"/> Normal operation	Lighting	—
	<input type="checkbox"/> Other operation:		—
			—

4.2.d	MEASUREMENT RESULTS			P
	Measuring with “Van der Hoofden” test head			
Location of EuT	Measuring distance	Result (F)	Limit (F)	Verdict
Measurement point 1	50cm	0.3617	0.85	Pass
Measurement point 2	50cm	0.3502	0.85	Pass

4.2.d	EQUIPMENT USED DURING TEST		
Equipment	Manufacturer	Type	ID. No.
“Van der Hoofden” test head	Schwarzbeck	VDHH 9502	047
Measurement receiver	Rohde & Schwarz	ESCI	101108

Photographs - Constructional Details

Photo 1 Appearance of EUT



Photo 2 Appearance of EUT

