

RF Exposure Report

For

Applicant Name: Hera Lighting L.P.

Address: 3025 Business Park Dr. Norcross, GA 30071, USA

EUT Name: 3Ch LED Dimmer Controller RF

Brand Name: Hera

Model Number: OL/RGB/96/CS/RF

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.

F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,

Address: Tantou Community, Songgang Street, Bao'an District, Shenzhen,

China

Report Number: BTF231106R00202

Test Standards: 47 CFR Part 2 Subpart J Section 2.1091

FCC ID: 2BDMC-OLRGB96CSRF

Test Conclusion: Pass

Test Date: 2023-11-07 to 2023-11-13

Date of Issue: 2023-11-14

Prepared By: Aria Zhang

Aria Zhang / Project Engineerz

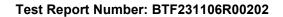
Date: 2023-11-14

Approved By:

Ryan.CJ / EMC Manager

Date: 2023-11-14

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.





Revision History				
Version	Issue Date	Revisions Content		
R_V0	2023-11-14	Original		
Note: Once the revision has been made, then previous versions reports are invalid				

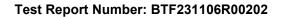




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Test Report Number: BTF231106R00202

1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.	
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China	
Phone Number:	+86-0755-23146130	
Fax Number:	+86-0755-23146130	

1.2 Identification of the Responsible Testing Location

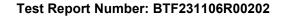
Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
All measurement facilities used to collect the measurement data at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park Community, Songgang Street, Bao'an District, Shenzhen, China	
FCC Registration Number:	518915
Designation Number:	CN1330

1.3 Laboratory Condition

Ambient Temperature:	20℃ to 25℃
Ambient Relative Humidity:	45% to 55%
Ambient Pressure:	100 kPa to 102 kPa

1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.





2. Product Information

2.1 Application Information

Company Name:	Hera Lighting L.P.
Address:	3025 Business Park Dr. Norcross, GA 30071, USA

2.2 Manufacturer Information

Company Name:	Hera Lighting L.P.
Address:	3025 Business Park Dr. Norcross, GA 30071, USA

2.3 Factory Information

Company Name:	Suzhou Euchips Industrial Co., Ltd.
Address:	7667 Linhu Avenue,Lili Town, Wujiang District 215212 Suzhou City, Jiangsu Province PEOPLE'S REPUBLIC OF CHINA

2.4 General Description of Equipment under Test (EUT)

EUT Name	3Ch LED Dimmer Controller RF	
Under Test Model Name	OL/RGB/96/CS/RF	
Hardware Version	B0	
Software and Firmware Version	1.0	



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3. Test Requirement

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	Electric field	Magnetic field strength	Power density	Averaging time	
(MHz)	strength(V/m)	(A/m)	(mW/cm ²)	(minutes)	
(A) Limits for Occupational/Controlled Exposure					
0.3-3.0	614	1.63	*(100)	6	
3.0-30	1842/f	4.89/f	*(900/f ²)	6	
30-300	61.4	0.163	1.0	6	
300-1500	-	-	f/300	6	
1500-100,000	-	-	5	6	
(B) Limits for General Population/Uncontrolled Exposure					
0.3-1.34	614	1.63	*(100)	30	
1.34-30	824/f	2.19/f	*(180/f ²)	30	
30-300	27.5	0.073	0.2	30	
300-1500	-	-	f/1500	30	
1500-100,000	-	-	1.0	30	

Note: f = frequency in MHz

EVALUATION METHOD

Transmission formula: $Pd = (Pout*G)/(4*pi*r^2)$

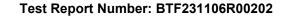
Where

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

3.1 Assessment Result

Frequency (MHz)	Туре	Conducted Power (dBm)	Maximum Tune- up (dBm)	Power Density (mW/cm2)	Limit (mW/cm2)	Result
2478	GFSK	-2.61	-2.00	0.0001	1.0000	Pass

Note: The exposure evaluation safety distance is 20cm.







BTF Testing Lab (Shenzhen) Co., Ltd.

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www.btf-lab.com

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