

TEST REPORT

Applicant: Innovative Eyewear Inc.
Address: 11900 Biscayne Blvd Suite 630 North Miami, Florida 33181
Equipment Type: Reebok Nautica Eddie Bauer Lucyd Smart Eyewear
Model Name: LCD011
Brand Name: Lucyd
Test Standard: CEC-400-2017-002
EERE-2008-BT-STD-0005-0256
10 C.F.R. section 430.23(aa) (Appendix Y to Subpart B of Part 430)
Sample Arrival Date: Dec. 12, 2025
Test Date: Dec. 12, 2025 - Dec. 31, 2025
Date of Issue: Apr. 15, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Boxin Liao

Checked by: Terry Wen

Approved by: Tolan Tu
(Testing Director)

Boxin Liao

Terry Wen

Tolan Tu

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Apr. 15, 2026</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1. ADMINISTRATIVE DATA (GENERAL INFORMATION)	3
1.1 Identification of the Testing Laboratory	3
1.2 Identification of the Responsible Testing Location	3
2. PRODUCT INFORMATION	4
2.1 Applicant	4
2.2 Manufacturer	4
2.3 Factory	4
2.4 General Description for Equipment under Test (EUT)	4
2.5 Ancillary Equipment	5
2.6 Technical Information	5
2.7 General conditions for the measurements	6
3. SUMMARY OF TEST RESULTS	7
3.1 Test Standards	7
3.2 Verdict	7
4. GENERAL TEST CONFIGURATIONS	8
4.1 Test Equipment List	8
4.2 Test Configurations	8
5. TEST DATA	9
6. TEST RESULT	10
6.1 Test Result for CEC	10
6.2 Test Result for DOE	11
7. Photo Document	16
Statement	20

1. ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Building 2, Intelligent Connected Vehicle Industrial Park, No. 55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Identification of the Responsible Testing Location

Test Location 1	Shenzhen BALUN Technology Co., Ltd.
Address	Building 2, Intelligent Connected Vehicle Industrial Park, No. 55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Description	All measurement facilities used to collect the measurement data are located at Building 2, Intelligent Connected Vehicle Industrial Park, No. 55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen

2. PRODUCT INFORMATION

2.1 Applicant

Applicant	Innovative Eyewear Inc.
Address	11900 Biscayne Blvd Suite 630North Miami, Florida 33181

2.2 Manufacturer

Manufacturer	Innovative Eyewear Inc.
Address	11900 Biscayne Blvd Suite 630North Miami, Florida 33181

2.3 Factory

Factory	Innovative Eyewear Inc.
Address	11900 Biscayne Blvd Suite 630North Miami, Florida 33181

2.4 General Description for Equipment under Test (EUT)

EUT Name	Reebok Nautica Eddie Bauer Lucyd Smart Eyewear
Model Name under test	LCD011
Series Model Name	LCD011-10,LCD011-11,LCD011-20,LCD011-21,LCD011-30,LCD011-40, LCD011-XX
Description of Model name differentiation	Only the color is different, the size of frame is different.
Brand Name	Lucyd
Sample Description	EUT is a Reebok Nautica Eddie Bauer Lucyd Smart Eyewear with building-in rechargeable Li-ion battery, detail refer to photos.
Hardware:	/
Software:	/
Sample No.	SC-SZ25C0114-S10, SC-SZ25C0114-S12

Ref. trademark and other marking on equipment:



2.5 Ancillary Equipment

Ancillary Equipment 1	Rechargeable Lithium ion Battery(Glasses Case)	
	Brand Name	/
	Model No.	HJ 400840A
	Capacitance	145mAh, 0.559Wh
	Rated Voltage	3.85V
	Limited charge Voltage	4.40V
	Manufacturer	Guangdong Hongjie New Energy Co., Ltd.
Note:/		

2.6 Technical Information

The requirement for the following technical information of the EUT was tested in this report:

Input Rating	5VDC
Battery capacity	145mAh*2
Battery nominal voltage	3.85V
Battery end-of discharge voltage	3.0V
Battery capacity of tested battery(if more than 1 charger port, report the total battery capacities during test)	145mAh*2
Product Type	EUT is Reebok Nautica Eddie Bauer Lucyd Smart Eyewear with building-in rechargeable Battery.
Inductive charger system	No
Number of charger ports	2
Compatible battery chemistries	Rechargeable Lithium ion Battery
Battery backup of uninterruptible power supply	No
A la carte charger	No
USB charger system	No
Location of marking or labeling	Provide separately
Note: The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.	

2.7 General conditions for the measurements

Air speed close to the EUT	≤ 0.5 m/s
Ambient temperature	22.2 ~ 23.2 °C
Test voltage	DC 5V
Test frequency	N/A
Total harmonic content of the test voltage at the EUT	N/A
Crest factor of test voltage	N/A
Power measurement accuracy	$\leq 2\%$ (power ≥ 0.5 W) ≤ 0.01 W(Power < 0.5 W)
Resolution of power meter	0.01W

3. SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Test specification
1	《CEC-400-2017-002》 – U.S. California Appliance Efficiency Regulations – Battery Charger System
2	《EERE-2008-BT-STD-0005-0256》 – Department of Energy - 10 CFR Part 430 - Energy Conservation Program: Energy Conservation Standards for Battery Chargers; Final Rule
3	10 C.F.R. section 430.23(aa) (Appendix Y to Subpart B of Part 430) – Uniform Test Method for Measuring the Energy Consumption of Battery Chargers

3.2 Verdict

Refer to Test Conclusion.

4. GENERAL TEST CONFIGURATIONS

4.1 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Due
Power meter	YOKOGAWA	WT310E	BZ-SFT-L236	2027/01/19
High precision battery performance system	NEWARE	CT-3008-5V10A-204	BZ-CHN-L063	2026/10/29
DC power supply	ANMUTAIKE	ATD60001	BZ-SFT-L214	/
Stopwatch	TF	PC2810	BZ-SFT-L068	2026/04/26

4.2 Test Configurations

N/A

5. TEST DATA

Name of measured value	1#	2#	Represented Value Mean
duration of the charge and maintenance mode test (tcd) in hours (hrs)	24	24	24
battery discharge energy (E_{batt}) in watthours (Wh) (Glasses Case+Glasses)	1.158	1.152	1.155
Battery discharge energy (E_{batt}) in watthours (Wh)(Glasses Case)	0.582	0.579	0.581
Battery discharge energy (E_{batt}) in watthours (Wh)(Glasses)	0.576	0.573	0.575
maintenance mode power (P_m) in watts (W) :	0.005	0.005	0.005
24-hour energy consumption (E_{24}) in watthours (Wh)	1.268	1.243	1.256
No battery mode power (P_{no}) in watts (W)	0.003	0.002	0.003
standby mode power (P_{sb}) in watts (W)	0.000	0.000	0.000
off mode power (P_{off}) in watts (W)	0.000	0.000	0.000
Note: 1. For CEC, the test methods are consistent with DOE but the judgement of test results are different with DOE. Appendix-1 is the judgement requirement for CEC and Appendix-2 is for DOE.			

6. TEST RESULT

6.1 Test Result for CEC

Battery charger model	24 hour charge and Maintenance Mode energy(Wh)		The sum of Maintenance Mode Power and No Battery Mode Power (W)	
	Measured Value:	Standard Requirement:	Measured Value:	Standard Requirement:
/	1.256	16 * N= 32.000	0.008 (Maintenance mode Power: <u>0.005W</u> ; No battery mode power: <u>0.003W</u>)	1*2+0.0021*1.118= 2.002
Conclusion	Pass		Pass	

6.2 Test Result for DOE

Efficiency Requirements for Federally regulated battery chargers

Product class: ☐ 1 ☒ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7	
Unit Energy Consumption, UEC (kWh/yr)	
EUT Sample No.: 1#	
UEC (kWh/yr)	0.021
EUT Sample No.: 2#	
UEC (kWh/yr)	0.016
Test results take the average of two samples	
UEC (kWh/yr)	0.019
Note:	

Sample No.	UEC calculated (kWh/yr)	/
1#	0.021	/
2#	0.016	/

The reported UEC on 97.5% confidence level is the higher of:

A. The mean value of $\bar{x} = 0.019$ kWh/yr or

B. $UCL/1.05 = (UCL = \bar{x} + t_{0.975}(\frac{s}{\sqrt{n}}))/1.05 = 0.047$ kWh/yr

Remark: ($\bar{x}$ is the sample mean; n is the number of samples; and x_i is the UEC of the i th sample. s is the sample standard deviation; n is the number of samples; and $t_{0.975}$ is the statistic for a 97.5-percent one-tailed confidence interval with $n-1$ degrees of freedom)

$$\bar{x} = \frac{1}{n} \sum_{i=1}^n x_i \quad s = \sqrt{\frac{\sum_{i=1}^n (x_i - \bar{x})^2}{n-1}}$$

n	$\sqrt{n}$	t for 97.5% confidence
2	1.41	12.706
3	1.73	4.303
4	2.00	3.182
5	2.24	2.776
6	2.45	2.571
7	2.65	2.447
8	2.83	2.365
9	3.00	2.306
10	3.16	2.262

UEC (kWh/yr) Limit Value:

$0.1440 * E_{batt} + 2.95 = 3.116$ kWh/yr.

Summary:

The Represented value UEC is 0.047 kWh/yr, lower than limit of 3.116kWh/yr.

Verdict:

EUT had considered complied with the Energy Conservation Standards.

Appendix-1:

Table W-2
Standards for Small Battery Charger Systems

Performance Parameter	Standard
Maximum 24 hour charge and maintenance energy (Wh) (E_b = capacity of all batteries in ports and N = number of charger ports)	For E_b of 2.5 Wh or less: $16 \times N$
	For E_b greater than 2.5 Wh and less than or equal to 100 Wh: $12 \times N + 1.6E_b$
	For E_b greater than 100 Wh and less than or equal to 1000 Wh: $22 \times N + 1.5E_b$
	For E_b greater than 1000 Wh: $36.4 \times N + 1.486E_b$
Maintenance Mode Power and No Battery Mode Power (W) (E_b = capacity of all batteries in ports and N = number of charger ports)	The sum of maintenance mode power and no battery mode power must be less than or equal to: $1 \times N + 0.0021 \times E_b$ Watts

Appendix-2:

Unit energy consumption (UEC) shall be calculated for a battery charger using one of the two equations (equation (i) or equation (ii)) listed in this section. If a battery charger is tested and its charge duration as determined in section 3.3.2 of this appendix minus 5 hours is greater than the threshold charge time listed in table 3.3.3 of this appendix (i.e. $(t_{cd} - 5) * n > t_{a\&m}$), equation (ii) shall be used to calculate UEC; otherwise a battery charger's UEC shall be calculated using equation (i).

$$(i) UEC = 365(n(E_{24} - 5P_m - E_{batt}) \frac{24}{t_{cd}} + (P_m(t_{a\&m} - (t_{cd} - 5)n)) +$$

$$(P_{sb}t_{sb}) + (P_{off}t_{off})) \text{ or,}$$

$$(ii) UEC = 365(n(E_{24} - 5P_m - E_{batt}) \frac{24}{(t_{cd}-5)} + (P_{sb}t_{sb}) + (P_{off}t_{off}))$$

Where:

E_{24} = 24-hour energy as determined in section 3.3.10 of this appendix,

E_{batt} = Measured battery energy as determined in section 3.3.8 of this appendix,

P_m = Maintenance mode power as determined in section 3.3.9 of this appendix,

P_{sb} = Standby mode power as determined in section 3.3.11 of this appendix,

P_{off} = Off mode power as determined in section 3.3.12 of this appendix,

t_{cd} = Charge test duration as determined in section 3.3.2 of this appendix, and

$t_{a\&m}$, n , t_{sb} , and t_{off} , are constants used depending upon a device's product class and found in the following table:

Table 3.3.3—Battery Charger Usage Profiles

Product class				Hours per day***			Charges (n)	Threshold charge time*
Number	Description	Rated battery Energy (E_{batt})**	Special characteristic or battery voltage	Active + maintenance ($t_{a\&m}$)	Stand by (t_{sb})	Off (t_{off})	Number per day	Hours
1	Low-Energy	≤ 5 Wh	Inductive Connection**	20.66	0.10	0.00	0.15	137.73
2	Low-Energy, Low-Voltage	< 100 Wh	< 4 V	7.82	5.29	0.00	0.54	14.48
3	Low-Energy, Medium-Voltage	/	4-10 V	6.42	0.30	0.00	0.10	64.20
4	Low-Energy, High-Voltage	/	> 10 V	16.84	0.91	0.00	0.50	33.68

	e							
5	Medium-Energy, Low-Voltage	100-3000 Wh	<20 V	6.52	1.16	0.00	0.11	59.27
6	Medium-Energy, High-Voltage	/	≥20 V	17.15	6.85	0.00	0.34	50.44
7	High-Energy	>3000 Wh	/	8.14	7.30	0.00	0.32	25.44

*If the duration of the charge test (minus 5 hours) as determined in section 3.3.2 of appendix Y to subpart B of this part exceeds the threshold charge time, use equation (ii) to calculate UEC otherwise use equation (i).

** E_{batt} = Rated battery energy as determined in 10 CFR part 429.39(a).

***If the total time does not sum to 24 hours per day, the remaining time is allocated to unplugged time, which means there is 0 power consumption and no changes to the UEC calculation needed.

****Inductive connection and designed for use in a wet environment (e.g. electric toothbrushes).

Equations for the appropriate product class and corresponding rated battery energy as shown in the following table:

Product class	Product class description	Rated battery energy (E_{batt} **)	Special characteristic or battery voltage	Maximum UEC (kWh/yr) (as a function of E_{batt} **)
1	Low-Energy	≤5 Wh	Inductive Connection*	3.04
2	Low-Energy, Low-Voltage	<100 Wh	<4 V	$0.1440 * E_{batt} + 2.95$
3	Low-Energy, Medium-Voltage		4-10 V	For $E_{batt} < 10$ Wh, 1.42 kWh/y $E_{batt} \geq 10$ Wh, $0.0255 * E_{batt} + 1.16$
4	Low-Energy, High-Voltage		>10 V	$0.11 * E_{batt} + 3.18$
5	Medium-Energy, Low-Voltage	100-3000 Wh	<20 V	$0.0257 * E_{batt} + .815$
6	Medium-Energy, High-Voltage		≥20 V	$0.0778 * E_{batt} + 2.4$
7	High-Energy	>3000 Wh		$0.0502 * E_{batt} + 4.53$

*Inductive connection and designed for use in a wet environment (e.g. electric toothbrushes).

** E_{batt} = Rated battery energy as determined in 10 CFR part 429.39(a).

7. Photo Document



Photo 1: Overall view



Photo 2: Overall view



Photo 3: Overall view



Photo 4: Overall view



Photo 5: Overall view



Photo 6: Interior view



Photo 7: Battery view



Photo 8: Battery view

Statement

1. The laboratory guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. The report without China inspection body and laboratory Mandatory Approval (CMA) mark has no effect of proving to the society.
3. For the report with CNAS mark or A2LA mark, the items marked with "☆" are not within the accredited scope.
4. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the "inspection and testing dedicated stamp" or test report stamp.
5. The test data and results are only valid for the tested samples provided by the customer.
6. This report shall not be partially reproduced without the written permission of the laboratory.
7. Any objection shall be raised to the laboratory within 30 days after receiving the report.

--END OF REPORT--