
Test Report

Report No.: AGC05443241009SS01

PRODUCT DESIGNATION : Set of 2 COB bicycle light

BRAND NAME : N/A

MODEL NAME : M02429

APPLICANT : MID OCEAN BRANDS B.V.

DATE OF ISSUE : Dec. 13, 2024

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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1. GENERAL INFORMATION

1.1 Testing laboratory

Name Attestation of Global Compliance (Shenzhen) Co., Ltd.
Address 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Test location Same as above

1.2 Applicant information

Name MID OCEAN BRANDS B.V.
Address 7/F. Kings Tower , 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

1.3 Manufacturer information

Name MID OCEAN BRANDS B.V.
Address 7/F. Kings Tower , 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

1.4 Factory information

Name MID OCEAN BRANDS B.V.
Address 7/F. Kings Tower , 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

1.5 Testing

Date of receipt of test item Dec. 11, 2024
Date(s) of performance of test Dec. 13, 2024

1.6 Summary of testing

The product is accordance with the requirements of IPX2 according to IEC 60529:1989+A1:1999+A2:2013, Degrees of protection provided by enclosures (IP code).

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Dec. 13, 2024	Valid	Initial release

Tested by Mody Mo Reviewed by Jimmy Zhu Approved By Byron Wang
Mody Mo Jimmy Zhu Byron Wang
(Authorized Officer)

2. Equipment Under Test (EUT) and Ancillary Equipment (AE)

Product Designation	Set of 2 COB bicycle light
Brand Name	N/A
Test model	MO2429
Series model	N/A
Supply connection	Not directly connected to mains
IP code	IPX2

3. Reference Documents

The following documents listed in this section are referred for testing.

Reference	Title	Clause
IEC 60529:1989+A1:1999+A2:2013	Degrees of protection provided by enclosures (IP Code)	14.2.2+14.3

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4. IPX1 Test procedure and Requirements

4.1 Environment conditions

Test environments Temperature: 15-35°C, Humidity: 25%-75%, Air Pressure: 86kPa-106kPa

4.2 Tested relevant

Number of tested samples 1

Conditions for mounting According to user manual

Whether to be tested energized ☐ Yes ☒ No

Whether to be tested with its
parts in motion ☐ Yes ☒ No

Other pre-conditioning No

4.3 Test conditions

The test is made with a device which produces a uniform flow of water drops over the whole area of the enclosure:

- a) The eccentricity (distance between turntable axis and specimen axis): 100mm;
- b) The enclosure under test is placed in its normal operating position under the drip box, the base of which is larger than that of the enclosure. Except for enclosures designed for wall or ceiling mounting, the support for the enclosure under test should be smaller than the base of the enclosure;
- c) An enclosure normally fixed to a wall or ceiling is fixed in its normal position of use to a wooden board having dimensions which are equal to those of that surface of the enclosure which is in contact with the wall or ceiling when the enclosure is mounted as in normal use;
- d) These positions are 15° on either side of the vertical in two mutually perpendicular planes;
- e) The enclosure is tested for 2,5 min in each of four fixed positions of tilt, The total duration of the test is 10 min.

4.4 Acceptance conditions

It is the responsibility of the relevant technical committee to specify the amount of water which may be allowed to enter the enclosure and the details of a dielectric strength test, if any.

In general, if any water has entered, it shall not:

- be sufficient to interfere with the correct operation of the equipment or impair safety;
- deposit on insulation parts where it could lead to tracking along the creepage distances;
- reach live parts or windings not designed to operate when wet;
- accumulate near the cable end or enter the cable if any.

If the enclosure is provided with drain-holes, it should be proved by inspection that any water which enters does not accumulate and that it drains away without doing any harm to the equipment.

For enclosures without drain-holes, the relevant product standard shall specify the acceptance conditions if water can accumulate to reach live parts.

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5. Detailed Test Results

Sample No.	Test results	Test verdict
241210070	After the test, no water entered into the test sample inside.	The test sample passed the IPX2 test.

6. Test Equipments Utilized

No.	Name	Model No.	Calibration Date	Calibration Due.
1	Waterproof test system	KXT1318	Jan. 04. 2024	Jan. 03. 2025

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Attachment A
Photos of Product**Fig.1 – Over view****Fig.2 – Over view**

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Fig.3 – Over view

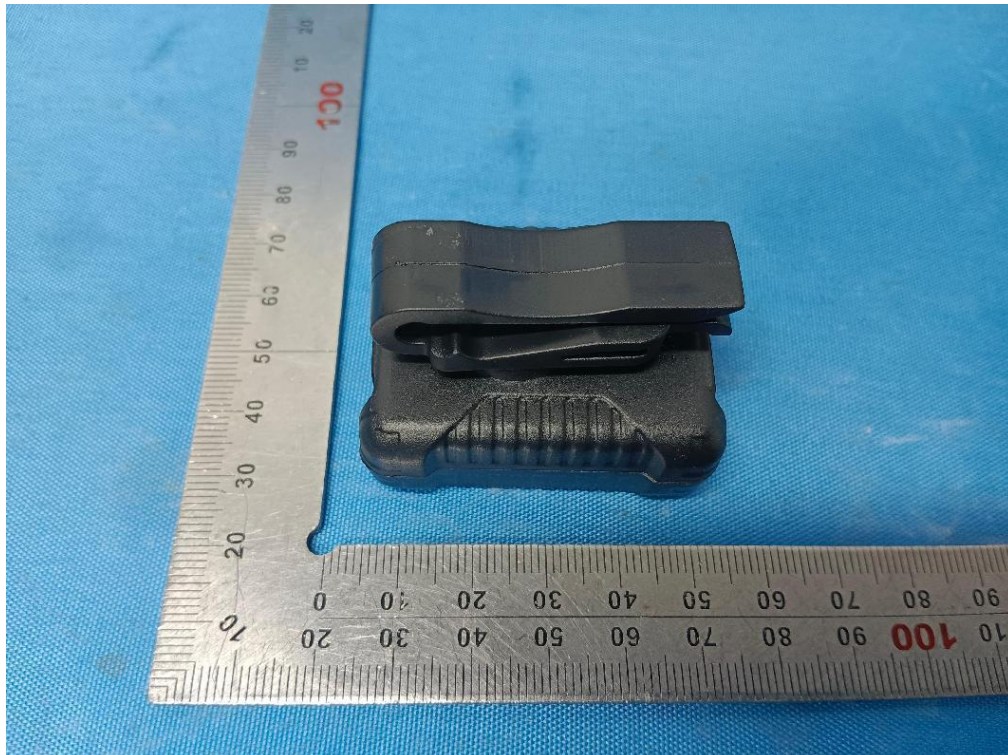


Fig.4 – Over view

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Fig.5 – View of product during test (IPX2)

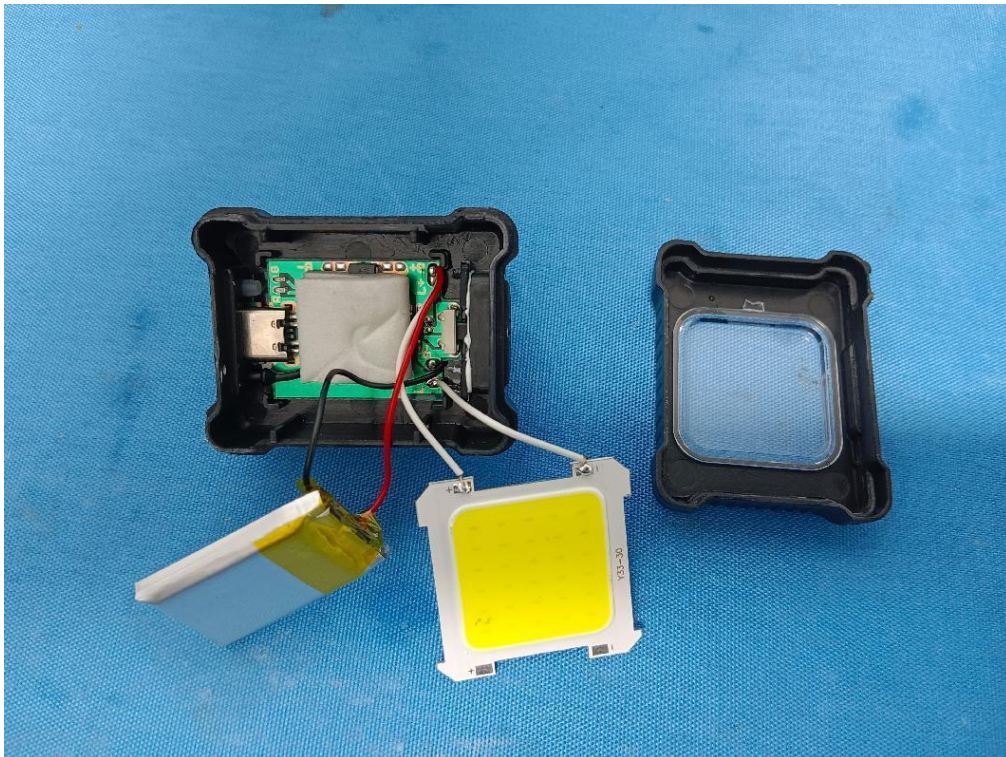


Fig.6 – Open view after IPX2 test

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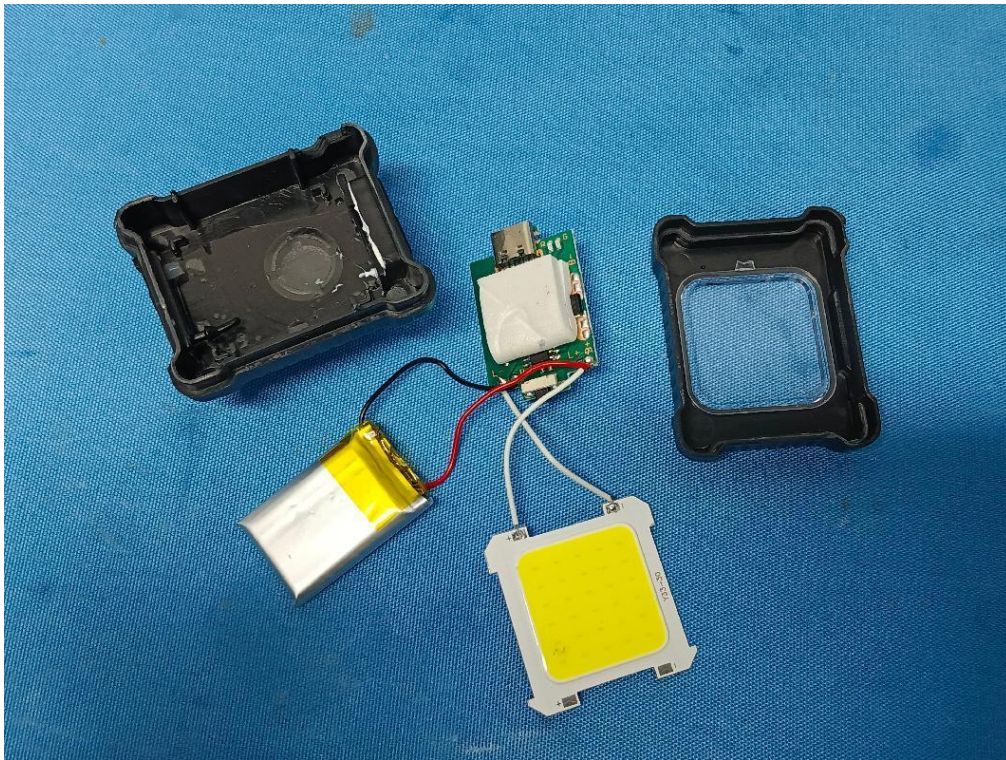


Fig.7 – Open view after IPX2 test

----- End of Report -----

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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