



**EC TYPE EXAMINATION (MODULE B)
CERTIFICATE No. MED086721WS**

***This is to certify** that RINA Services S.p.A. (Notified Body No. 0474) did undertake the relevant type approval procedures for the equipment identified below, which was found to be in compliance with the Life-Saving appliances requirements of Marine Equipment Directive (MED) 2014/90/EU, including the requirements and testing standards of Regulation (EU) 2020/1170.*

<i>MED Item N°</i>	MED/1.2b
<i>USCG Category N°</i>	161.110
<i>Description</i>	Position-indicating lights for life-saving appliances: (b) for lifebuoys
<i>Type</i>	LNK-LB-01B
<i>Applicant</i>	XIAMEN LONAKO INDUSTRY & TRADE CO., LTD N 307 WEIYE BUILDING, CHINA PIONEERING PARK FOR CHINESE OVERSEAS SCHOLARS XIAMEN CHINA
<i>Testing standards</i>	IMO Res. MSC.81 (70), as amended, IEC 60945:2002 incl. IEC 60945 Corr. 1 (2008), ISO 24408:2005.
<i>Reference standards</i>	SOLAS 74 Reg.III/7, SOLAS 74 Reg.III/22, SOLAS 74 Reg.III/32, SOLAS 74 Reg.III/34, IMO Res.MSC.36(63)-(1994 HSC Code) 8, IMO Res.MSC.48(66)-(LSA Code) I, IMO Res.MSC.48(66)-(LSA Code) II, IMO Res.MSC.97(73)-(2000 HSC Code) 8.

*Issued in SHANGHAI on
May 6, 2021*

*This Certificate is valid until
May 5, 2026*

This Certificate consists of this sheet plus an attachment



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RINA Services S.p.A.





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Manufacturer

XIAMEN LONAKO INDUSTRY & TRADE CO., LTD

Place of Manufacturer

N 307 WEIYE BUILDING
CHINA PIONEERING PARK FOR CHINESE OVERSEAS SCHOLARS
XIAMEN
CHINA

Name & place of Authorised Representative

Mr. Johannes Graf Strachwitz
Walhallastraße 38, 80639 München, Germany
GERMANY

Product Description

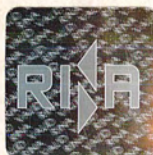
Model of light: LNK-LB-01B - Lifebuoy self-igniting light automatically activated by water sensor.

The above light is manufactured with following characteristics:

- Dimensions of main body: Ø 90 mm, height 124 mm;
- Color of upper shell: Transparent;
- Color of body: Red;
- Total Weight: Light 180g, Clip 36g, One unit light 228g (including instructions);
- Flash Rate: about 54 flashes per minute;
- Luminous Intensity : $\geq 2.0\text{cd}$;
- Operation time : $\geq 2\text{h}$;
- Storing Temperature : $-30^{\circ}\text{C} \sim +65^{\circ}\text{C}$;
- Working Temperature : $-1^{\circ}\text{C} \sim +30^{\circ}\text{C}$;
- Battery: 1 x 3.0 Volt, 1200mAh, model CR123A lithium;
- Bulb: White LED, 0.5W, 50mA.

The light is supplied with a clamp for fastening closed to the lifebuoy.

RINA Services S.p.A.
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Continued:

Tests Carried Out

Evaluation and Test Report edit by RINA Shanghai Office according to IMO Res. MSC.81(70) as amended by Res.MSC.200(80), MSC.226(82) and MSC.323(89) and filed by RINA with No.: CSST-7173;

Entrusting Inspection Report (Ref. No.: 2010YW149) issued by The National Supervision and Testing Center of Fishery Machinery and Instrument and filed by RINA with No.: SHFP-17769;

Test Report (Ref. No.: 2010YW035) issued by The National Supervision and Testing Center of Fishery Machinery and Instrument and filed by RINA with No.: CSST-7174;

Test Report (Ref. No.: 2010YW036) issued by The National Supervision and Testing Center of Fishery Machinery and Instrument and filed by RINA with No.:CSST-7175;

EMC Test Report (Ref. No.: 2020EC-WJ0055) edit by Xiamen Products Quality Supervision & Inspection Institute according to REG. 9.3, 10.4 and 10.9 of IEC 60945:2002 incl. IEC 60945 Corr.1 (2008) and filed by RINA with No.: SHFP-17771;

Additional Evaluation and Test Report (Ref. No.: 2021LB-01B) edit by Xiamen Lonoko Industry & Trade Co., Ltd. according to REG. 8.3, 8.5, 8.6, 8.9 and 11.2 of IEC 60945:2002 incl. IEC 60945 Corr.1 (2008) witnessed by RINA dated on 23.03.2021~24.03.2021 and filed by RINA with No.: SHFP-17770.

Reference Documents

Booklet of Technical Drawings (LNK-LB-01B Lifebuoy Light) issued by XIAMEN LONAKO Industry & Trade Co., Ltd and approved by RINA with No.: SHFP-9100;

LNK-LB-01B Lifebuoy Light Modification Statement issued by XIAMEN LONAKO Industry & Trade Co., Ltd and filed by RINA with No.: SHFP-9101;

Updated Technical Specification (LNK-LB-01B Lifebuoy Light) issued by XIAMEN LONAKO Industry & Trade Co., Ltd and approved by RINA with No.: SHFP-17933;

Labeling (LNK-LB-01B Lifebuoy Light) issued by XIAMEN LONAKO Industry & Trade Co., Ltd and approved by RINA with No.: SHFP-17774.

Field of Application

Lifebuoy self-igniting light automatically designed in compliance with MSC.48(66) (LSA Code) with a maximum height of 30m.



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The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production control phase module (D, E or F) of Annex II of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YYYY

"WHEELMARK FORMAT"

XXXX Notified Body number undertaking surveillance module

YYYY The year in which the mark is affixed

USCG Approval marking

This equipment is covered by the scope of the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment signed February 27th, 2004 and amended by Decision No. 1/2018 dated February 18th, 2019 according to U.S. Coast Guard approval category **161.110**.

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F) as allowed by the MED.

General conditions for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment
- c) This certificate will no be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA
- d) RINA personnel are to be allowed to witness during the performances of activities, upon their request
- e) The activities are to be carried out in compliance with the RINA Rules and/or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulations or standards apply.



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