



Marine &amp; Offshore

Certificate number: 41494/B0 BV

File number: LSA 2477/01

Product code: 6004H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to***ACR ELECTRONICS INC.**

Fort Lauderdale, FL - UNITED STATES OF AMERICA

*for the type of product***LIFEJACKET LIGHTS**

Crew-Overboard Light

ACR HemiLight3

**Requirements:**

SOLAS 74 Convention, as amended, Regulations III/4, III/7, III/22, III/26, III/32, III/34, X/3

IMO Res. MSC.48(66) -(LSA Code)- amended by MSC.207(81), MSC.218(82), MSC.272(85), MSC.293(87), MSC.320(89), MSC.368(93), MSC.425(98) and MSC.459(101) I, II

IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 8

IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 8

IMO Res. MSC.81(70) amended by MSC.200(80), MSC.226(82), MSC.274(85), MSC.295(87), MSC.321(89), MSC.323(89), MSC.378(93), MSC.427(98) and MSC.472(101)

IMO MSC/Circ. 980

Transport Canada Requirements:

Transport Canada Life Saving Equipment Regulations, TP14475 and TP14612

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.***This certificate will expire on: 18 Sep 2025****For Bureau Veritas Marine & Offshore,**

At BV PORT EVERGLADES CENTRE, on 24 Nov 2020,

Flavio Rosas



This certificate is recognized by Transport Canada

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION :

Flashing Position-indicating lights for lifejacket type: **Crew-Overboard Light "ACR HemiLight3" - (HL3).**

### 2. DOCUMENTS AND DRAWINGS :

- Drawings & Specification:

Number	Title	Revision	Date
A3-06-2891	Final Assembly HL3/HL3+	G	03/18/2020
A1-20-1796-	Product Label, HL3 for Canada	F	07/09/2018
A3-06-3264	Final Assembly HL3 Refresh	B	03/18/2020
A1-20-2058-	Product Label, HL3 Refresh	A	06/05/2020

- Manual(s) for installation use and maintenance.

No departure from these documents is permitted without the prior consent of the Society.

### 3. TEST REPORTS :

DATE		TEST
2015/07/30	20116-1C	Initial Type tests carried out in the IMANNA Laboratory Inc.
15/07/2020	2019189	Certification Test Report carried out in the Wuhan Testing Center of Marine Life-Saving Appliances.
24/07/2020	2020020	Rubbing Test carried out in the Wuhan Testing Center of Marine Life-Saving Appliances.

### 4. APPLICATION / LIMITATION :

- The scope of the appraisal made by Bureau Veritas to issue this certificate is strictly restricted to the relevant requirements stated on the front page of this certificate.
- Application/limitation as per products description and requirements stated on front page of this certificate.
- The light assembly shall be replaced after 5 years shelf life or after use.
- Instructions are to be provided on how to attach the light.
- Attachment and operating instructions shall be supplied in a format suitable for insertion into the vessel's training manual.
- Each Position-indicating lights for lifejackets will be supplied with its instructions for use, inspections and on-board maintenance complying with Regulations stated on the front page of this certificate.

### 5. PRODUCTION SURVEY REQUIREMENTS :

5.1 - Position Indicating Lights are to be supplied by **ACR Electronics, Inc, USA** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **ACR Electronics, Inc, USA** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.

The manufacturer shall institute a quality control procedure to ensure that position indicating Lights are produced to the same standard as the approved prototype and shall keep records of any production tests carried out in accordance with instructions given in IMO Resolution MSC.81 (70) Part 2.

Each equipment, or batch of equipment, is to be supplied with its Manual(s) for Installation, use & maintenance

5.4 - For information, **ACR Electronics, Inc, USA** has declared to Bureau Veritas the following production site(s):

#### **Xiamen Lonako Industry & Trade Co.,Ltd**

N402, Weiye Building, China Pioneering Park for Overseas Chinese Scholars,  
Xiamen 361009, P.R. China

### 6. MARKING OF PRODUCT :

Brief instructions or diagrams clearly illustrating the use of the Position-indicating lights for lifejackets shall be printed on the casing.

All necessary markings shall be in English and French.

The light shall bear the following marks:

- Trade name or logo
- Date of manufacture (also to be considered as the lot or batch number) and date of expiry
- SOLAS approved
- Transport Canada approval number (BV TAC number: 41494/B0 BV)

**7. OTHERS :**

It is **ACR Electronics, Inc, USA** responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

This certificate cancels and replaces Type Approval Certificate N° 41494/A2 BV issued on 14/08/2019 by the Society.

**\*\*\* END OF CERTIFICATE \*\*\***