



**TYPE APPROVAL CERTIFICATE**  
No. ELE142223PU

**This is to certify** that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	<b>NAVIGATION LIGHTS</b>
<i>Type</i>	<b>NavILED Compact (2NM) Port, Starboard, Stern</b>
<i>Applicant</i>	<b>HELLA NEW ZEALAND LIMITED 81-83 Ben Lomond Crescent Pakuranga 2010 Auckland NEW ZEALAND</b>
<i>Manufacturer</i>	<b>HELLA NEW ZEALAND LIMITED</b>
<i>Place of manufacture</i>	<b>81-83 Ben Lomond Crescent Pakuranga 2010 Auckland NEW ZEALAND</b>
<i>Reference standards</i>	<b>COLREG, 1972, ISO 19009:2015, ABYC C-5, EN 60945:2002</b>

Issued in **BUSAN** on **October 4, 2023**. This Certificate is valid until **October 3, 2028**



  
RINA Services S.p.A.  
Young-Kwang Kim

This certificate consists of this page and 1 enclosure

**TYPE APPROVAL CERTIFICATE**  
**No. ELE142223PU**  
**Enclosure - Page 1 of 1**  
**NaviLED Compact (2NM) Port, Starboard, Stern**

**Type: NaviLED COMPACT Series (2 NM)**

**Port light** 2LT 980 520-0xx; 2LT 980 520-1xx;  
**Starboard light** 2LT 980 520-2xx; 2LT 980 520-3xx;  
**Stern light** 2LT 980 520-5xx ;

- rated voltage: 12 Vdc and 24 Vdc.
- mechanical protection: IP 67
- max supply voltage variation allowed: 9 Vdc to 33 Vdc
- operating temperature : -40 to 60 C.deg.

**Drawings:** D\_2LT98052000x\_005 for Port side lights rev. 5 dated 21/07/2023  
D\_2LT98052020x\_005 for Starboard side lights rev. 5 dated 15/08/2023  
D\_2LT98052050x\_008 for Stern lights rev. 8 dated 15/08/2023

**Test Reports:**

TESTLAB doc. n. E082576E (15/12/2008) (EMC immunity and emission)  
TESTLAB doc. n. U082576E1 (05/12/2008) (Environmental)

**IMANNA test reports**

- n.23-22303-1 (Colreg requirements/ABYC-5:2021/ISO 19009:2015 for Starboard side light\_ 12Vdc – Green LED & Clear Lens) dated 22/08/2023
- n.23-22303-2 (Colreg requirements/ABYC-5:2021/ISO 19009:2015 for Port side light\_ 12Vdc – Red LED & Clear Lens) dated 22/08/2023
- n.23-22303-3 (Colreg requirements/ABYC-5:2021/ISO 19009:2015 for Starboard side light\_ 12Vdc – Green Lens) dated 22/08/2023
- n.23-22303-4 (Colreg requirements/ABYC-5:2021/ISO 19009:2015 for Port side light\_ 12Vdc – Red Lens) dated 22/08/2023
- n.23-22303-5 (Colreg requirements/ABYC-5:2021/ISO 19009:2015 for Stern light\_ 12Vdc – White LED) dated 30/08/2023

- The above documents and reports are archived in LD+ as "PUEL-10664~10666".
- Asbestos free declaration letter dated 09/10/2023

**Note/Remark**

- Navigation lights to be installed according to COLREG 72 Requirements as well as the manufacturer instruction.
- The product is always subject to the compliance with RINA Rules and other Standards mentioned on certificate
- Type Approval certifies that a representative sample of the product has been found to meet the applicable design criteria
- Any modification or change shall not be valid until approval is granted by RINA as a result of due assessment
- RINA annual audit to the Manufacture's production site is required in case of products for which testing of each unit or batch is not required to be attended by the surveyor.

**BUSAN 10/04/2023**



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A handwritten signature in black ink, appearing to be 'rbl', is written over the RINA contact information.