

COMMERCIAL-IN-CONFIDENCE

STATEMENT OF TEST

CLIENT Daniamant Limited
Unit 3. The Admiral Park
Airport Service Road
Portsmouth, Hampshire
United Kingdom, PO3 5RQ

DOCUMENT 75941445 SOT 02 Issue 1
CLIENT'S ORDER NUMBER PC0001837, dated 16.01.2018

INCOMING RELEASE NOTE

Delivery List, dated 16.01.2018

DATE OF RECEIPT

18 January 2018

EQUIPMENT UNDER TEST (EUT)

L160 & L161 Lifebuoy Lights, comprising the following;

	Description	Model	No Tested	Sample Ref No	Test
1	Lifebuoy Light	L160	1	10	Test 1, 2 & 3
2	Lifebuoy Light	L161	1	12	Test 1, 2 & 3

TEST SPECIFICATION / ISSUE

- IMO LSA:2010 para 1.2.1, 10.2.2, 10.4.9 & 10.4.10 (Lifebuoy Lights).
- MSC.1-Circ.980:2001. Sections 2.1.2.2, 2.1.2.3 & 2.1.2.3 (Lifebuoy Lights).

DEVIATIONS FROM THE STANDARD

- The Thermal Cycling Test cold test level specified as -30°C was altered to be a more severe condition at -52°C.
- The Operation requirement to be floating and immersed in water was rescinded by Daniamant email P.Stubbs/G.Shadbolt(TÜV) dated 08.02.2018.

DATE OF TEST

22 January to 15 March 2018

TEST(S) DESCRIPTION

Temperature & Light Tests on the L160 And L161 Lifebuoy Lights

The following tests were required by the specification:

Test	Description	Test Parameters	Operation
1	Temperature Cycling	2 units tested for x10 cycles between -52°C to +65°C for 8h at each temperature condition.	The units are switched OFF during the test and are examined and operated before and after the test.
2	Operation at Cold Temperature.	Both units stored for 8h at -52°C and operated at -1°C for 2h. See Deviation 2 above	Stabilise the lights at the test temperature and switch ON all lights. Check the flash rate is between 50-70 flashes per minute. Monitor and record the battery voltage.
3	Light Tests	Each unit tested for Luminous Intensity, Flash Rate/Duration and Chromaticity, at the lowest battery voltage recorded during Test 2.	The test is carried out at the laboratory of OptiConsulting Ltd, Buxton SK17 6UG, UK. The battery voltages after Test 2 and maintained for the light test were 2.93 V (L160) and 5.87 V (L161).

RESULT(S) OF TEST

The test requirements were satisfied for all tests, as stated below.

- Thermal Cycling: A visual examination and performance assessment after the test was reported as satisfactory.
- Operation at Temperature: Visual examinations and performance assessments during and after the test were reported as satisfactory. Flash rates met the requirements and were between 50-70 flashes per minute.
- Light Tests: Flash rate/duration, Luminous Intensity (≥ 2 cd) and chromaticity were compliant and satisfactory.

This certificate relates only to the actual item/items tested.

Approved by


S Boddison
Authorised Signatory



Date 18 April 2018