

COMMERCIAL-IN-CONFIDENCE

## STATEMENT OF TEST

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

DOCUMENT 75932844 THC 02 Issue 1

CLIENT'S ORDER NUMBER PC0001573, dated 26.11.2015

INCOMING RELEASE NOTE Not Released

DATE OF RECEIPT 3 December 2015

EQUIPMENT UNDER TEST (EUT) Survivor Location Lights as stated below.  
RL5 Internal/External Liferaft Lights & Battery Pack (paired units)

SERIAL NUMBERS(S) External Lights: Sample № 19, 20, 21, 22 (x4 units tested)  
Internal Lights: Sample №13, 14, 15, 16 (x4 units tested)

TEST SPECIFICATION / ISSUE 1. IMO document MSC 70/23/Add.1 Annex 6, clauses 10.1.3 (Thermal Cycling); 10.1.4 (operation in cold air/flash rate) & 10.4.9 (Luminous Intensity).  
2. IMO document MSC/Circ.980/Add.1 Annex, Section 4.3.6 (Survival Craft).

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.

DATE OF TEST 7 December 2015 to 5 February 2016

TEST(S) DESCRIPTION Temperature and Luminous Intensity Light Tests on the RL5 Liferaft Lights

The following tests were required by the specification:

Test	Description	Test Parameters	Operation
1	Thermal Cycling	x10 cycles between -52°C to +65°C 8h at each temperature condition.	The units are switched OFF during the test and are examined /operated before and after the test.
2	One Day Life and Flash Test at -52°C.	Stabilise the External and Internal units at -52°C. Maintain the units at -52°C for a minimum period of 12 h.	Switch ON all lights at -52°C. Determine the flash rate of the External lights before and after the test at laboratory ambient conditions and at -52°C.
3	Light Tests (Luminous Intensity)	Four light units (pair) are tested for Luminous Intensity & Flash Rate at ambient temperature.	The test is carried out at the laboratory of OptiConsulting Ltd, Buxton SK17 6UG, UK.

### 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.

One Day Life & Flash Rate: A visual examination and performance assessment after the test was reported as satisfactory. The External lights flash rate of all units was between 64 to 70 flashes per minute at laboratory ambient and at -52°C.

Light Tests: One pair of lights was tested, Sample Nos 21 and 15. The lights met the acceptance criteria for Luminous Intensity and Flash rate. OptiConsulting report OC-0576-01 refers.

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

Approved by   
G M Stephens  
Authorised Signatory



Date 21 July 2016