ISO 17884:2004-11 (E)

Ships and marine technology - Searchlights for high-speed craft

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Terms and definitions 2

4 Requirements 2
4.1 Required functions and their availability 2
4.2 Permanent operation and life duration 2
4.3 Luminous intensity 2
4.4 Chromaticity of the emitted light 3
4.5 Switch-on time 3
4.6 Pan and tilt ranges 3
4.7 Pan and tilt speeds 3
4.8 Malfunctions, warnings, alarms and indications 3
4.9 Ergonomic and operational controls 4
4.10 Durability and resistance to environmental conditions 4
4.11 Steadiness and ultimate behaviour of pane (light emitting areas) 5
4.12 Electromagnetic compatibility (EMC) 5
4.13 Power supply 5
4.14 Installation 5
4.15 Maintenance 5
4.16 Back-up and fall-back arrangements 6
4.17 Safety precautions 6

5 Type approval tests 6
5.1 Testing of the luminous intensity 6
5.1.1 General 6
5.1.2 Adjustment 6
5.1.3 Goniometry 6
5.1.4 Photometer 6
5.1.5 Geometry 7
5.1.6 Procedure 7
5.1.7 Angles 7
5.1.8 Measurement of luminous intensity 8
5.2 Testing of the chromaticity 8
5.2.1 Adjustment 8
5.2.2 Goniometry 8
5.2.3 Colorimeter 8
5.2.4 Geometry 8
5.2.5 Procedure 8
5.2.6 Measurement of chromaticity 9
5.3 Test of life duration (see 4.2) 9
5.4 Vibration 9
5.4.1 General 9
5.4.2 Pre-conditioning and initial measurements 9
5.4.3 Required result 9
5.5 Shock 10
5.5.1 General 10
5.5.2 Pre-conditioning and initial measurements 10

5.5.3 Required result 10

6 Test report 10

7 Documentation 10

8 Marking 11