



## EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that :

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), specified as a "notified body" under the terms of The Merchant Shipping (Marine Equipment) Regulations S.I. 1999 No. 1957, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Navigation COLREG 72 requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC, 2002/84/EC, 2008/67/EC, 2009/26/EC, 2010/68/EU, 2011/75/EU, 2012/32/EU and 2013/52/EU subject to any conditions in the Design Appraisal Document attached hereto.

**Manufacturer** CANTALUPI SRL

**Address** Via Michele Coppino 371  
55049 Viareggio (LU)  
Italy

**Annex A1 Item** A.1/6.1 NAVIGATION LIGHTS

Product Type	Type code:	Visibility range (nautical miles):
Stern Light Single	CE NLS 01	>3 NM (135°)
Stern Light Double	CE NLD 01	>3 NM (135°)
Towing Light Single	CE NLS 02	>3 NM (135°)
Towing Light Double	CE NLD 02	>3 NM (135°)
Starboard Light Single	CE NLS 03	>3 NM (112.5°)
Starboard Light Double	CE NLD 03	>3 NM (112.5°)
Port Light Single	CE NLS 04	>3 NM (112.5°)
Port Light Double	CE NLD 04	>3 NM (112.5°)
Masthead Light 5NM Single	CE NLS 05	>5 NM (225°)
Masthead Light 5NM Double	CE NLD 05	>5 NM (225°)
Combined Masthead Light 6NM Single	CE NL CS 05 05	>6 NM (225°)
Combined Masthead Light 6NM Double	CE NL CD 05 05	>6 NM (225°)
Anchor Light Single	CE NLS 06	>3 NM (360°)
Anchor Light Double	CE NLD 06	>3 NM (360°)
NUC Light Single	CE NLS 07	>3 NM (360°)
NUC Light Double	CE NLD 07	>3 NM (360°)
360° Green Light Single	CE NLS 08	>2 NM (360°)
360° Green Light Double	CE NLD 08	>2 NM (360°)
360° Amber Light Single	CE NLS 09	>2 NM (360°)
360° Amber Light Double	CE NLD 09	>2 NM (360°)
180° RED Light Single	CE NLS 10	>3 NM (180°)
180° RED Light Double	CE NLD 10	>3 NM (180°)

STANDARD Lights can be assembled into various configurations of COMBINED Lights (see Section 3 of User Manual UM.00001.001).

Different materials of the housing and finishing are identified by adding these letters to the type code:

BA = BLACK ALUMINIUM

GA = GREY ALUMINIUM

SS = STAINLESS STEEL

**Product Description** LED Navigation lights for power-driven vessels (> 20m)  
Rated power supply: 24V DC

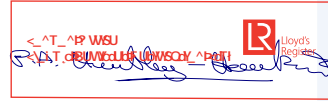
**Specified Standard** EN 14744 (2005) including AC (2006)  
IEC 60945 (2002) including IEC 60945 Corrigendum 1 (2008)

**The attached Design Appraisal Document (schedule) forms part of this certificate.**

**This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.**

Date of issue 27 May 2015 Expiry date 26 May 2020

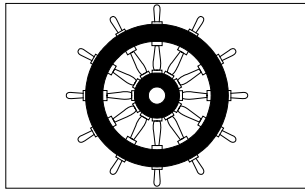
Certificate No. MED 1550130 Signed



Sheet No 1 of 4 Name P.A. Huntley-Hawkins  
For and on behalf of Lloyd's Register Verification  
LRV EC Distinguishing No. 0038

Note:

**This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.**



0038/yy

Subject to compliance with the conditions in the attached Design Appraisal Document (schedule), which forms part of this certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.  
yy Last two digits of year mark affixed.

**This certificate is issued under the authority of the MCA.**

Lloyd's Register Verification Limited (Reg. no. 4929226) is a limited company registered in England and Wales. Registered office: 71 Fenchurch Street, London, EC3M 4BS, UK.  
A subsidiary of Lloyd's Register Group Limited.

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Lloyd's  
Register

## Lloyd's Register Verification Limited

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Document number MED 1550130
Issue number 1

### DESIGN APPRAISAL DOCUMENT

Date 27 May 2015	Quote this reference on all future communications MTES/ETS/AAP/PAHH/WP20770343/GEN1590047/SOU
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#### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1550130

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

#### APPROVAL DOCUMENTATION

Form 2571	19.05.2015
User's Manual for Cantalupi led Navigation Lights No.UM.00001.001., Ed.05	22.05.2015
Qualification test procedure for CANTALUPI LED Navigation Lights No.QTP.00001.001, Ed.06	04.05.2015
CANTALUPI LED Navigation Lights, Modification to tests	Undated
CREE XLamp XP-E2 LEDs, Product Family Data Sheet No.CLD-DS56, rev 5B	Undated
OSRAM OSQM Mechanical shock test for OSOLON Signal package family	11.05.2015
OSRAM OSOLON Signal Data sheet, ver.1.0	21.01.2014
CANTALUPI SRL E-mail	12.05.2015
CANTALUPI SRL E-mail	20.05.2015
JEDEC Mechanical Shock JESD22-B104C	12.2004

#### TEST REPORTS

Electromagnetic compatibility Test (TesLab) No.153051E	10.04.2015
Environmental test report (TesLab) No.153051A, rev.01	30.04.2015
Test report No.306-QL15-R01, ver.1 (QUALILAB SRL)	11.05.2015
Test report No.455-QL15-R01, ver.1 (QUALILAB SRL)	18.05.2015

#### CONDITIONS OF CERTIFICATION

1. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place.
2. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place.
3. If the specified standards are amended during the validity of this Certificate, this product type is to be reapproved prior to it being supplied to vessels to which the amended standards apply.
4. Should a change of Place of Production from that stated below be required, i.e. where the final stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained.



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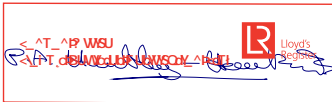
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- Installation on board:** The arrangements and installation of the light on board the vessel are not part of this design appraisal and certificate. All such arrangements are to be to the satisfaction of the Surveyors attending on board; the fitting of the light to be in accordance with the manufacturer's instructions and the requirements of COLREGs 72, as amended, and any additional requirement of the State whose flag the vessel is entitled to fly.
- 360° Green and 360° Amber CANTALUPI LED Navigation lights may only be fitted to vessels less than 50 metres as per COLREGs 72 Rule 22 as amended.
- The navigation light controller does not form a part of this design appraisal document. CANTALUPI LED Navigation lights on board vessels are to be used in conjunction with appropriate navigation light controller complied with IMO Resolution MSC.253(83).
- CANTALUPI LED Navigation lights comply with Section 4.3.1 of IMO Resolution MSC.253(83).

#### PLACE OF PRODUCTION

CANTALUPI SRL  
Via Michele Coppino 371  
55049 Viareggio (LU), Italy



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For and on behalf of Lloyd's Register Verification  
**LRV EC Distinguishing No. 0038**