DNV·GL

Certificate No:
MEDB000079G

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Navigation lights

with type designation(s)
200-064 and 300-113

Issued to
Lopolight ApS
Humlebæk, Hovedstaden, Denmark

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2020/1170,**
item No. MED/6.1. COLREG 72 as amended, Annex I/14, IMO Res. A.694(17), IMO Res. MSC.253(83)

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2026-02-09**.
Issued at **Hamburg** on **2021-02-10**

DNV GL local station:
Denmark CMC

Approval Engineer:
Nicolay Horn

Notified Body
No.: **0098**

for **DNV GL SE**

Christine Mydlak-Roeder
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV GL AS, its parent companies and subsidiaries as well as their officers, directors and employees ("DNV GL") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

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Product description

200-064 5nm 360° maneuvering light, single
300-113 3nm yellow towing light, single

Application/Limitation

The LED Towing Light 300-113 may only be fitted to vessels of 50 metres or more in length as per 72 COLREG's Rule 22 as amended and IMO Res.MSC.253 (83).

The LED navigation light shall be delivered complete with their technical documentation and User's manual accordingly to the requirements of Resolution A.694 (17) and Resolution MSC.253 (83)

The navigational light controller does not form a part of this design appraisal document. The lights certified herein are to be used in conjunction with an appropriate navigation light controller approved in accordance with MSC.253 (83)

Installation on board: The arrangements and installation of the light on board the vessel is not part of this design appraisal or 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.

Instructions for installation, use and maintenance of the product are to be supplied to each purchaser.

An installed software version for each type of lights should be included on the document and the data is to be advised by Lopolight if it is not declared in the manuals that have been examined.

LEDs should only be used within the lifespan specified by the manufacturer to maintain the necessary luminous intensity of LEDs. The lifespan of LEDs should be determined and clearly notified to the manufacturer based on the appropriate test results on the decrease of luminous intensity of the LEDs under various temperature conditions of LEDs in the light during operation, taking the appropriate margin into the account.

Each item, batch or lot of the equipment is to have the "Mark of Conformity" affixed and be issued with a "Declaration of Conformity".

Type Examination documentation

Design Appraisal Document No UKITSO/TASS/ETS/MJH/WP33074865
Installation instructions for Lopolight navigation lights Part No : 300-113 and 200-064, Rev 1.2 , dated 16th October 2018.

Drawing No.	Drawing Title	Revision	Date
200-064AA	Round Housing, PE Base.	0	02-02-2017
200-064BA	Round Housing, Promount 400-034. Cable Down.	0	02-02-2017
200-064CA	Round Housing, Promount 400-034. Cable Side.	0	02-02-2017
200-064DA	Round housing, Promount 400-034. 400-404 PE Base Plate, Cable down	0	02-02-2017
200-064EA	Round Housing, Promount 400-034. 400-404 PE Base Plate,Cabel Side	0	02-02-2017
200-064FA	Round Housing, Promount 400-035. Cable Down.	1	02-02-2017
200-064GA	200-064GA Round Housing, Promount 400-035. 400-401 Alu Base Plate	1	02-02-2017
200-064HA	Low profile base	0	02-02-2017
300-113AC	Towing Light for vessels over 50 Meters w/PE Base	0	29-03-2017
300-113BC	Towing Light for vessels over 50 meters, Promount 400-034, Cable Side	0	29-03-2017

Drawing No.	Drawing Title	Revision	Date
300-113CC	Towing Light for vessels over 50 meters, Promount 400-034, Cable Down	0	29-03-2017
300-113DC	Towing Light for vessels over 50 meters, Promount 400-034, 400-404 Base Plate, Cable Side 0 29-03-2017 300-113EC	0	29-03-2017
300-113EC	Towing Light for vessels over 50 meters, Promount 400-034, 400-404 Base Plate, Cable Down	0	29-03-2017
300-113GC	Towing Light for vessels over 50 meters, Promount 400-035, 400-401Base Plate, Cable Down	0	29-03-2017
300-113HD	Towing Light for vessels over 50 meters on a Low Profile Base	0	29-03-2017

TEST REPORTS

Test Report performed at Delta Danak, Doc. No DANAK -19/12702 Rev.1 Delta-T203286 and dated 21st December 2012.

Tests carried out

72 COLREGs – International Regulations for Preventing Collisions at Sea amended by IMO Resolution A.1004 (25) Annex I/14.
EN60945 (2002) including Corrigendum 1 (2008) and EN14744 (2005) including AC (2006)

Marking of product

The LED navigation light shall be marked externally accordingly to the requirements of Resolution A.694 (17) and Resolution MSC.253 (83)

END OF CERTIFICATE