DNV·GL

Certificate No:
TAE00002SD

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Light Fitting

with type designation(s)
Flood Light FL 60 LED

Issued to
Glamox Production GmbH & Co. KG
Bremen, Germany

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Vibration class	**A**
Degree of protection	**IP X6/X7**
Temp. class	**D**
Voltage (V)	**see page 2**
Suitable for Hazardous areas	**N/A**

Issued at **Hamburg** on **2018-03-04**
This Certificate is valid until **2023-05-25**.
DNV GL local station: **Bremerhaven**

Approval Engineer: **Maik Gagern**

for **DNV GL**

Arne Schaarmann
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

© DNV GL 2014. DNV GL and the Horizon Graphic are trademarks of DNV GL AS.

Job Id: **262.1-027649-1**
Certificate No: **TAE00002SD**

Product description

Floodlights with LED Lightsource
Series: FL 60 LED
Module Types:

- 1 module 1 x 40W
- 2 modules 2 x 40W
- 3 modules 3 x 40W
- 4 modules 4 x 40W

Voltage:

- 230V +/-10% 50/60Hz
- 120V +/-10% 50/60Hz

Housing: aluminium seawater resistant, anodised
Ambient Temperature: -45°C up to + 55°C
EMC Class: B

Application/Limitation

Operating instruction of the manufacturer to be observed

Type Approval documentation

Tests carried out

DNV GL Class Guideline DNVGL-CG-0339, Edition Nov. 2016

Marking of product

Manufacturer - type designation

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the Type approval are complied with and that no alterations are made to the product design or choice of materials.

The main elements of the assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routine Tests (RT) checked (if not available tests according to RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE