

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Light Fitting

with type designation(s)
TL 60

Issued to

Glamox Production GmbH & Co. KG
Teterow, Mecklenburg-Vorpommern, 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 66/67
Temp. class	B
Voltage (V)	110V-240V
Suitable for Hazardous areas	No

Issued at **Hamburg** on **2019-10-29**

This Certificate is valid until **2024-10-28**.

DNV GL local station: **Hamburg**

for **DNV GL**

Approval Engineer: **Uwe Supke**

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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.



Product description

Multipurpose luminaire surface	TL 60
Number of lamps	2
Light source	LED
Rated voltage:	110V - 240V AC
Frequency:	50-60Hz
Ingress protection:	IP 66/67
Ambient temperature:	-35°C up to +55°C
Suitable for open deck:	Yes
Temperature colour:	4000K, optional 3000K, 5000K, 6500K or coloured

Application/Limitation

Installation instruction of the manufacturer to be followed.

The inside wire insulation exposed need to be covered by UV light resistant heat-shrinkable tubing between the external cable connection to the luminaire terminal block.

Location classes:

Temperature:	B
Humidity:	B
Vibration:	A
EMC:	B

Type Approval documentation

Tests carried out

Applicable tests according to DNVGL Guideline DNVGL-CG-0339, Edition November 2016, based on DNVGL Class Programme DNVGL-CP-0398.

Marking of product

The products to be marked with:

- Manufacturer name
- Model name
- Serial number
- Power supply ratings
- Degree of protection

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