Certificate no.:
**TAE00004Y3**

# TYPE APPROVAL CERTIFICATE

## This is to certify:

**that the Light Fitting**

with type designation(s)
**SIRIUS GEN 2 STD EU**

issued to
**A LED A/S**
**Hammeren 6, 6800 Varde**, **Denmark**

is found to comply with
**DNV 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.**

Issued at **Høvik** on **2025-01-06**
This Certificate is valid until **2030-01-05**.
DNV local unit: **Denmark CMC**

Approval Engineer: **Qiang William Guo**

for **DNV**

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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") 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 USD 300 000.

## Place of Manufacture

Guangdong Lemark Electronic Technology Co.,Ltd
Building 23, Zhongjingrun Industrial Park, Pingfeng Development Zone, Yuegui Cooperation Special Experimental Zone, Pingfeng Town, Fengkai County, Zhaoqing City, Guangdong Province, P.R. China 526542.

## Product description

| | |
|---|---|
| Watertight LED Luminaire: | SIRIUS GEN 2 STD EU |
| Rated voltage: | 100 – 240 Vac |
| Rated power: | 26 W |
| Frequency: | 50-60Hz |
| Degree of protection: | IP66 |
| Ambient temperature: | -40°C up to +50°C |
| Suitable for open deck: | Yes |
| Colou temperature: | 3000 warm white, 4000K, neutral white |
| Material: | GRP |

## Application/Limitation

Installation instruction of the manufacturer to be followed.

| | |
|---|---|
| Location classes: | |
| Temperature: | D |
| Humidity: | B |
| Vibration: | A |
| EMC: | A |
| Enclosure class: | C |
| Suitable for Hazardous areas: | NO |

## Type Approval documentation

## Tests carried out

Applicable environmental tests in according to DNV-CG-0339, Edition August 2021,
Type tests in according with IEC60598-1:2008 and IEC 60092-306:2009. EMC tests in according to IEC 55015 (Emission), IEC61000-4 series (Immunity).

## Marking of product

The products to be marked with:

- Manufacturer name
- Model name
- Serial number
- Power 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