



Certificate No:
TAE00004TK

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Light Fitting

with type designation(s)
PROTECTA X LED Linear, ACCLAIM LED Recessed Linear

Issued to
Hubbell Ltd Chalmit Lighting
Stockport,, United Kingdom

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

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

| Type | Vibration class | Degree of protection | Temp. class | Voltage (V) | Suitable for Hazardous areas |
|-----------------------------|-----------------|----------------------|-------------|-----------------------------|------------------------------|
| PROTECTA X LED Linear | A | IP67 | D | 110-277V AC, 127-250V DC | No |
| ACCLAIM LED Recessed Linear | A | IP66 | D | 220-240V AC | No |

Issued at **Høvik** on **2024-04-25**

This Certificate is valid until **2029-04-24**.

for **DNV**

DNV local unit: **UK & Ireland CMC & VMC**

Approval Engineer: **Ivar Bull**

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Frederik Tore Elter
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.

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 300,000 USD.



Product description

PROTECTA X LED Linear,
 ACCLAIM LED Recessed Linear

| | PROTECTA X LED Linear, | ACCLAIM LED Recessed Linear |
|-------------------------|--|--|
| Variants: | PRXI/02L/LE 2696 lm 16W PRXI/05L/LE 5230 lm 35W PRXI/02L/LE/EM 2696 lm 19W PRXI/05L/LE/EM 5230 lm 38W | ACLI/02L/LE 1632 lm 20W ACLI/04L/LE 4035 lm 42W ACLI/02L/LE/EM 1632 lm 24W ACLI/04L/LE/EM 4035 lm 47W |
| Rated voltage: | 110-277V AC 50/60 Hz; 127-250V DC | 220-240V AC, 50/60Hz |
| Rated power: | See listing of variants above | See listing of variants above |
| Ingress protection: | IP67 | IP66 |
| Impact protection | IK10 | - |
| Suitable for open deck: | No (EMC class A) | No (Enclosure class B) |
| Ambient temperature: | -40°C ...25°C up to 60°C | -20°C to +45°C |
| Material: | Marine grade aluminium body with polycarbonate diffuser. | White polyester painted zintec body and frame. Prismatic diffuser. |
| Luminous flux: | See listing of variants above | See listing of variants above |
| Light colour: | 5000K (Cool White) | 4000K (Neutral White) |
| Control gear: | Electronic Driver | Electronic Driver |
| Surge Protection: | 4 kV | 4kV |
| Emergency operation: | Optional | 3 Hours (02L version = 33% output, 04L version = 15% output) |

Application/Limitation

Installation instruction of the manufacturer to be followed.

PROTECTA X has EMC class A and shall not be installed on bridge or open deck.

ACCLAIM LED Recessed Linear has enclosure class B and shall not be installed on open deck.

| DNV Location classes: | PROTECTA X LED Linear, | ACCLAIM LED Recessed Linear |
|-----------------------|------------------------|-----------------------------|
| Temperature class: | D | D |
| Humidity class: | B | B |
| Vibration class: | A | A |
| EMC class: | A | B |
| Enclosure class: | C | B |

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.

Photometric tests.

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.



Job Id: **262.1-038046-1**
Certificate No: **TAE00004TK**

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