

CERTIFICATE NUMBER

13-LD1091622-PDA

DATE

06 November 2013

ABS TECHNICAL OFFICE

London Engineering Department

CERTIFICATE OF

DESIGN ASSESSMENT

This is to Certify that a representative of this Bureau did, at the request of LUMINELL AS - 6010 AALESUND

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

PRODUCT: Lighting Fixtures, LED

MODEL: RLX-C, RLX-D & RLX-E

This Product Design Assessment (PDA) Certificate 13-LD1091622-PDA, dated 06/Nov/2013 remains valid until 05/Nov/2018 or until the Rules or specifications used in the assessment are revised (whichever occurs first).

This PDA is intended for a product to be installed on an ABS classed vessel, MODU or facility which is in existence or under contract for construction on the date of the ABS Rules or specifications used to evaluate the Product.

Use of the Product on an ABS classed vessel, MODU or facility which is contracted after the validity date of the ABS Rules and specifications used to evaluate the Product, will require re-evaluation of the PDA.

Use of the Product for non ABS classed vessels, MODUs or facilities is to be to an agreement between the manufacturer and intended client.

AMERICAN BUREAU OF SHIPPING

Barry H Moss

Engineer

LUMINELL AS

MYRABAKKEN NAERINGSSENTER, BYGG 2 6010 AALESUND

Norway

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Product:

Lighting Fixtures, LED

Model:

RLX-C, RLX-D & RLX-E

Intended Service:

Marine, offshore and other demanding applications (outside explosive atmospheres)

Description:

LED floodlights designed for use in demanding applications.

Ratings:

Rated voltage: 100 to 305 VAC (RLX-C also available in 24 VDC)

Rated frequency: 47 to 63 Hz

Rated power: RLX-C: 40 W and 80 W, RLX-D: 160 W, RLX-E: 240 W

Permitted range of ambient temperature: -40°C to 55°C

Enclosure protection: IP 66/67

Service Restrictions:

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

Not Applicable

Notes / Drawings / Documentation:

Test report: DELTA Development Technology AB, Document REC- E702807

Term of Validity:

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STANDARDS

ABS Rules:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product. The Rules applicable to this assessment are: ABS Steel Vessel Rules 2013 1-1-4/7.7, 4-8-3/1.3, 4-8-3/1.7, 4-8-3/1.11.1, 4-8-4/1.3; ABS MODU Rules 2013 4-3-1/15, 4-3-3/3.1.1

National:

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Norway

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NA

International:

IEC 62031: 2008 IEC 62471: 2009 EN 55015: 2000

Internal Power supply for RLX Vac versions: Safety standards UL8750, CSA C22.2 No. 250-0-008, EN 61347-1, EN

61000-4-2,3,4,5,6,8,11

Internal Power for RLX-C 24 Vdc: Safety standards Design refer to IEC 60950-1, EN 50155 (IEC 60571), EN

61000-4-2,3,4,5,6,8

Government Authority:

NA

EUMED:

NA

Others:

NA