



TYPE APPROVAL CERTIFICATE
No. ELE227016XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Floodlight/Searchlight/ Bowlight
<i>Type</i>	RLX LED Floodlights: RLX B, RLX C, RLX D RLX Ex LED Floodlights: RLX Cx, RLX Dx BLX LED Bowlights: BLX C, BLX D, BLX B SLX LED Serchlight modules: SLX C, SLX D, SLX B Control Panel
<i>Applicant</i>	Luminell Norway AS - LUMINELL NORWAY AS Borgundfjordvegen 116 6017 Ålesund NORWAY
<i>Reference standards</i>	Rules for the classification of ships.- Part C - Machinery, systems and fire protection. - Ch.3, Sect. 6, Table 1.

Issued in **GDANSK** on **May 25, 2020**. This Certificate is valid until **May 24, 2025**


RINA Services S.p.A.
Jaroslaw Kondracki



This certificate consists of this page and 1 enclosure



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Enclosure - Page 1 of 1

RLX LED Floodlights: RLX B, RLX C, RLX D

RLX Ex LED Floodlights: RLX Cx, RLX Dx

BLX LED Bowlights: BLX C, BLX D, BLX B

**SLX LED Serchlight modules: SLX C, SLX D, SLX B
Control Panel**

Product Description:

1. RLX Series LED Floodlights: RLX B, RLX C, RLX D
2. RLX Ex Series LED Floodlights: RLX CxZ1.21, RLX DxZ1.21 and RLX DxZ2.21
3. BLX Series LED Bowlights: BLX C, BLX D, BLX B
4. SLX Series LED Serchlight modules: SLX C, SLX D, SLX B
5. Control Panel

Technical Data:

1. RLX Series LED Floodlights: RLX C, RLX D, RLX E - 100-277 V AC,
 - Frequency range: 50-60Hz
 - Rated Power: 80/160/240W
 - Operating ambient temperature: -40°C to +55°C
 - IP Class: 66/67
 - Bracket, bolts: Stainless steel AISI 316L

RLX Series LED Floodlights: RLX B (12/24V DC), RLX C (24V DC), RLX D (24V DC)

- Rated Power: 40W, 80/120W, 160/240W
- Operating ambient temperature: -40°C to +55°C
- IP Class: 66/67 or 66/67/68 (for RLX B)
- Bracket, bolts: Stainless steel AISI 316L

2. RLX Ex Series LED Floodlights: RLX CxZ1.21 (Zone 1,2,21,22)

- Rated power: 40/80/120/160W
- Input voltage range: 100-277 V AC, 100-300 V DC
- Frequency range: 50-60Hz
- Ambient temperature: -55°C to +55°C
- IP Class: 66/67

RLX Ex Series LED Floodlights: RLX DxZ1.21 (Zone 1,2,21,22) and RLX DxZ2.21 (Zone 2,21,22)

- Rated power: 80/160/240W
- Input voltage range: 100-277 V AC, 100-300 V DC
- Frequency range: 50-60Hz
- Ambient temperature: -55°C to +55°C
- IP Class: 66/67

3. BLX Series LED Bowlights: BLX C, BLX D, BLX B

- Rated power: 250/500W (24V DC)
- Input voltage range: 22-30 V DC (alternative voltage with external PSU 100-277 V AC)
- Frequency range 230V AC: 50-60Hz
- Ambient temperature: -40°C to +55°C
- IP Class: 66/67

4. SLX Series LED Serchlight modules: SLX C, SLX D, SLX B

- Rated power: <250W (SLX C), <500W (SLX D), <80W (SLX B)
- Input voltage range: 22-30 V DC (alternative voltage with external PSU 100-277 V AC)
- Frequency range 230V AC: 50-60Hz
- Ambient temperature: -40°C to +55°C
- IP Class: 66/67

5. Control Panel

Approval Conditions:

see test reports

Test Reports:

- Marine type testing of RLX, BLX and SLX lamps and control panel - report No.:119-29574-with appendix 1,2,3
- D0045 FAT Procedure
- HACT (Highly Accelerated Corrosion Testing) of Luminell RLX D series and ISO 9223/12944 corrosion classes

Additional Documentation:

- Assembly drawings: RLX, SLX, BLX
- User Manual: RLX
- Installation Guide: RLX, BLX, SLX, Control panel
- Data Sheets: RLX, SLX, BLX

Remarks

Electric apparatus to be used according to the instructions given by the manufacturer.

GDANSK May 25, 2020

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