



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx SGS 23.0087X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2024-08-08

Applicant: **Red Sky Lighting LLC**
Room 516, No.8 Hengfei Road, Nanjing Economic and Technological Development Zone, Nanjing, Jiangsu, China
Nanjing 210046
China

Equipment: **RND-XX-100-240 Series; RND-XX-24 Series and RND-XX-100-240-EM Series LED Explosion Proof Luminaires**

Optional accessory:

Type of Protection: **Ex e, Ex n, Ex t**

Marking: See description

Approved for issue on behalf of the IECEx
Certification Body:

D Brearley

Position:

Certification Consultant

Signature:
(for printed version)

Date:
(for printed version)

8/8/2024

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Rockhead Business Park
Staden Lane
Buxton, Derbyshire SK17 9RZ
United Kingdom





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Manufacturer: **Red Sky Lighting LLC**

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China

Manufacturing
locations:

Red Sky Lighting LLC

Room 516, No.8 Hengfei Road,
Nanjing Economic and Technological
Development Zone, Nanjing, Jiangsu,
China
Nanjing 210046
China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-15:2017](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/SGS/ExTR23.0158/00](#)

Quality Assessment Report:

[DE/TPS/QAR17.0003/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The model RND series luminaires are suitable for use in Zone 2 (EPL Gc) and Zone 21 (EPL Db) explosive atmospheres. The luminaires consist of interconnecting "nR/tb" chambers. One chamber is identified as the wiring chamber (LED Driver Cavity) for the connection of field wiring to the equipment and the other chamber contains the LED array (Light Cavity).

The equipment also contains an emergency junction for the installation of an emergency driver for the models containing an emergency type designation (EM Model – See Nomenclature Breakdown). The devices may be installed with or without a bracket.

The light transmitting cover is made from a polycarbonate material with an outer glass case over it.

The equipment is wired by means of a glanded entry that utilises a suitable Ex Certified gland based on the specification provided in the manufacturer's instructions. The manufacturer does not provide the cable glands to the end-user.

Marking

RND-XX-100-240 Series (AC LED Luminaire)

RND-65-100-240 or RND-75-100-240;

Ex ec nC nR IIC T4 Gc (-40 °C ≤ Tamb ≤ +55 °C)

Ex tb IIIC T110 °C Db (-40 °C ≤ Tamb ≤ +55 °C)

RND-25-100-240 or RND-45-100-240

Ex ec nC nR IIC T6 Gc (-40 °C ≤ Tamb ≤ +55 °C)

Ex tb IIIC T85 °C Db (-40 °C ≤ Tamb ≤ +55 °C)

RND-XX-24 Series (DC LED Luminaire)

RND-65-24

Ex ec nC nR IIC T4 Gc (-40 °C ≤ Tamb ≤ +55 °C)

Ex tb IIIC T110 °C Db (-40 °C ≤ Tamb ≤ +55 °C)

RND-45-24 or RND-25-24

Ex ec nC nR IIC T6 Gc (-40 °C ≤ Tamb ≤ +55 °C)

Ex tb IIIC T85 °C Db (-40 °C ≤ Tamb ≤ +55 °C)

RND-XX-100-240-EM Series (AC LED Luminaire)

RND-65-100-240-EM or RND-75-100-240-EM

Ex ec nC nR IIC T4 Gc (0 °C ≤ Tamb ≤ +50 °C)

Ex tb IIIC T110 °C Db (0 °C ≤ Tamb ≤ +50 °C)

RND-45-100-240-EM or RND-25-100-240-EM

Ex ec nC nR IIC T6 Gc (0 °C ≤ Tamb ≤ +50 °C)

Ex tb IIIC T85 °C Db (0 °C ≤ Tamb ≤ +50 °C)

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment shall be installed according to IEC 60079-14: latest version and the operating instructions.
2. An external grounding or equipotential connection is required, the cross-sectional area of grounding shall be 4mm² at least.
3. Potential electrostatic charging hazard is existed. Clean the surface by wet cloth.
4. Three IFR26650N3000 type cells connected in series are only be used for the RND-XX-100-240-EM series emergency LED luminaires.
5. The selection and installation requirements of the cable glands should follow the requirements given in the instructions.
6. The rear cable entry at the back of the power cavity is left unused. If the side cable entry is not used, due to a user defined entry then the opening must be blanked with a suitably certified blanking element. If the end user performs any changes to the enclosure onsite, the routine restricted breathing test must be performed.
7. The cambered light cover of the equipment shall be protected from impact. The impact energy cannot exceed 2 J. It shall be protected from mechanical impact and be installed in a manner where direct impact is not possible.