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UNITED KINGDOM CONFORMITY ASSESSMENT
UK-TYPE EXAMINATION CERTIFICATE

[2]

**Product or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

[3] UK-Type Examination Certificate No.: **UL24UKEX2986X Rev. 0**

[4] Product: **LED Luminaire, Model BLK Series, Models BLK-80-100-240,
BLK-100-100-240, BLK-150-100-240, BLK-80-200-480, BLK-100-200-480
and BLK-150-200-480.**

[5] Manufacturer: **Red Sky Lighting LLC**

[6] Address: **Room 516, No.8 Hengfei Road, Nanjing Economic and Technological
Development Zone, Nanjing, Jiangsu, China
Nanjing 210046
China**

[7] This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8] UL International (UK) Ltd, Approved Body number 0843, in accordance with Regulation 44 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.
The examination and test results are recorded in the confidential report **UKRCC-4791249281**.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014

Except in respect of those requirements listed at section 19 of the schedule to this certificate.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the Schedule to this certificate.

[11] This UK-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

 **II 2 G Ex db IIB T6 Gb**

 **II 2 D Ex tb IIIC T85°C Db**

Certification Officer
Andrew Moffat

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the UKEx Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Regulations. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2024-06-26

Approved Body UL International (UK) Ltd Unit 1-3 Horizon Kingsland Business Park Wade Road, Basingstoke RG24 8AH, UK
Phone : +44 (0)1256 312100

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Schedule

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- [15] Description of Product
 The Model BLK series of LED luminaires are suitable for use in hazardous location classified as Zone 1 and Zone 21. This luminaire consists of two interconnecting "db"/"tb" chambers: one is the wiring compartment (driver cavity and driver cavity cover) for wiring connection, the other one is the LED array chamber (lamp cavity and LED source cavity). The enclosure material is aluminum alloy. The light-transmitting part is made of tempered flat glass. The gasket is used to maintain the IP rating. The entry for wiring through conduit maintains the degree of protection. Unused entries are fitted with blanking elements to maintain the degree of protection.

Nomenclature for Luminaires:

Models	BLK	-	80	-	100-240
	1		2		3

- 1 – Designates basic luminaire model series
 BLK – For all luminaires
- 2 – Designates luminaire system input wattage rating
 150 – 150 W
 100 – 100 W
 080 – 80 W
- 3 - Designates luminaire system input voltage rating
 100-240 – 100-240V
 200-480 – 200-480V

Performance testing

The optical radiation output of the product with respect to explosion protection, according to Schedule 1 clause 16 of the Regulation 2016 No. 1107 (as amended by UKSI 2019:696) is not covered in this certificate.

Temperature range

The relation between ambient temperature and the assigned temperature class is as follows:

Model	Ambient temperature range	Temperature class	Dust Temperature Rating
BLK-80-100-240 BLK-80-200-480	-25°C to +50°C	T6	T85°C
BLK-100-100-240 BLK-100-200-480	-25°C to +50°C	T6	T85°C
BLK-150-100-240 BLK-150-200-480	-25°C to +50°C	T6	T85°C

Electrical data

BLK-80-100-240, rated 100-240Vac, 50/60 Hz, 80 W
 BLK-80-200-480, rated 200-480 Vac, 50/60 Hz, 80 W
 BLK-100-100-240, rated 100-240Vac, 50/60 Hz, 100 W
 BLK-100-200-480, rated 200-480 Vac, 50/60 Hz, 100 W
 BLK-150-100-240, rated 100-240Vac, 50/60 Hz, 150 W
 BLK-150-200-480, rated 200-480 Vac, 50/60 Hz, 150 W

Routine tests

Routine overpressure tests in accordance with EN60079-1:2014 shall be conducted on all units in accordance with clause 15.2.3.2, at a pressure of 136 psi for a duration of not less than 10 seconds. There shall be no sign of damage, deformation or rupture that will invalidate the concept of protection.

- [16] Test Report No. (associated with this certificate issue)
 The test report no. is provided under item no. [8] on page 1 of this UK-Type Examination Certificate.

- [17] Specific conditions of use:
- The flameproof joints are not intended to be repaired.

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- [18] Conditions of certification:
None
- [19] Essential Health and Safety Requirements (Regulations Schedule 1)
In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

Additional information



The trademark  may be used as the company identifier on the marking label.

The manufacturer shall inform the approved body concerning all modifications to the technical documentation as described in UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1.

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Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Installation Instruction	BLK UKEx Installation	A 1.0	-
Drawing of Explosive View	NJZ-FEL-C-V02.00.01	V02	2016-07-08
Drawing of General Assembly	NJZ-FEL-C-V02.00	V02	2016-07-08
Drawing of Driver Cavity Cover	NJZ-FEL-C-V02.01	V02	2016-07-08
Drawing of Driver Cavity	NJZ-FEL-C-V02.02	V02	2016-07-08
Drawing of LED Source Cavity	NJZ-FEL-C-V02.03	V02	2016-07-08
Drawing of Lamp Cavity	NJZ-FEL-C-V02.04	V02	2016-07-08
Drawing of Nameplate, BLK-150-100-240	NJZ-FEL-C-V04.05	V04	2024-06-05
Drawing of Nameplate, BLK-100-100-240	NJZ-FEL-C-V04.05.01	V04	2024-06-05
Drawing of Nameplate, BLK-80-100-240	NJZ-FEL-C-V04.05.02	V04	2024-06-05
Drawing of Nameplate, BLK-150-200-480	NJZ-FEL-C-V04.05.03	V04	2024-06-05
Drawing of Nameplate, BLK-100-200-480	NJZ-FEL-C-V04.05.04	V04	2024-06-05
Drawing of Nameplate, BLK-80-200-480	NJZ-FEL-C-V04.05.05	V04	2024-06-05
Drawing of Tempered Glass	NJZ-FEL-C-V01.05	V01	2016-07-08
Drawing of Platen	NJZ-FEL-C-V01.06	V01	2016-07-08
Drawing of LED Source Cavity Sealing Strip	NJZ-FEL-C-V01.07	V01	2016-07-08
Drawing of Driver Cavity Sealing Washer	NJZ-FEL-C-V01.08	V01	2016-07-08
Drawing of Mounting Bracket	NJZ-FEL-C-V01.09	V01	2017-08-08
Drawing of O-ring	NJZ-FEL-C-V01.10	V01	2016-07-08
Drawing of Aluminum substrate (150 W)	NJZ-FEL-C-V01.11.01	V01	2016-07-08
Drawing of Aluminum substrate (100 W)	NJZ-FEL-C-V01.11.02	V01	2016-07-08
Drawing of Aluminum substrate (80 W)	NJZ-FEL-C-V01.11.03	V01	2016-07-08
Drawing of Lens	NJZ-FEL-C-V01.11.04	V01	2016-07-08
Drawing of Screw Plug	NJZ-FEL-C-V01.19	V01	2017-07-08
Material for Elastomer Gasket	ISP-4787594943-Gasket	V01	2016-12-21
Material Composition	ISP-4787594943-material composition	V01	2016-09-08