



# 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](http://www.iecex.com)

Certificate No.: **IECEx UL 17.0099X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 1 [Issue 0 \(2018-01-11\)](#)  
Date of Issue: 2023-09-21  
Applicant: **Red Sky Lighting LLC**  
Room 516, No.8 Hengfei Road, Nanjing Economic and Technological Development Zone, Nanjing, Jiangsu, China  
Nanjing 210046  
China  
Equipment: **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.**  
Optional accessory:  
Type of Protection: **Flameproof "db" and Dust Ignition Protection by Enclosure "tb"**  
Marking: Ex db IIB T6 Gb  
Ex tb IIIC T85°C Db  
-25°C ≤ Ta ≤ +50°C

Approved for issue on behalf of the IECEx  
Certification Body:

**Lucy Frieders**

Position:

**Staff Engineer**

Signature:  
(for printed version)

Date:  
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**UL LLC**  
333 Pfingsten Road  
Northbrook IL 60062-2096  
United States of America





# IECEx Certificate of Conformity

Certificate No.: **IECEx UL 17.0099X**

Page 2 of 4

Date of issue: 2023-09-21

Issue No: 1

Manufacturer: **Red Sky Lighting LLC**  
Room 516, No.8 Hengfei Road, Nanjing Economic and Technological Development Zone, Nanjing, Jiangsu, China  
Nanjing 210046  
**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 60079-0:2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1:2014** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

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 Reports:

**US/UL/ExTR17.0110/00**

**US/UL/ExTR17.0110/01**

Quality Assessment Report:

**DE/TPS/QAR17.0003/07**



# IECEx Certificate of Conformity

Certificate No.: **IECEx UL 17.0099X**

Page 3 of 4

Date of issue: 2023-09-21

Issue No: 1

## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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.

**Please see Annex for additional information.**

**SPECIFIC CONDITIONS OF USE: YES as shown below:**

- The flameproof joints are not intended to be repaired.



# IECEx Certificate of Conformity

Certificate No.: **IECEx UL 17.0099X**

Page 4 of 4

Date of issue: 2023-09-21

Issue No: 1

## **DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Issue 1: Change Manufacturer name and Address from NJZ Lighting Technology Co., Ltd., No. 58 Hengguang Road, Nanjing Economic and Technological Development Zone Nanjing, Jiangsu, 210038, China to Red Sky Lighting LLC, Room 516, No. 8 Hengfei Road, Nanjing Economic and Technological Development Zone, Nanjing, Jiangsu, 210046 China. Change Model name from NJZ-FEL-C-080, NJZ-FEL-C-100 and NJZ-FEL-C-150 to 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. Change voltage from 100-240/277V to 100-240V. Update nameplate and installation instructions.

## **Annex:**

[Annex to IECEx UL 17.0099X Issue 1.pdf](#)



# IECEx Certificate of Conformity

Annex to Certificate No.:

IECEx UL 17.0099X

Issue No.: 1

Page 1 of 2

## TYPE DESIGNATION

Nomenclature for Luminaires:

The complete luminaire catalogue number example is as follows:

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

Models covered are as follows:

Model	Ambient Temperature range	Gas Temperature Code	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

## PARAMETERS RELATING TO THE SAFETY

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



# IECEx Certificate of Conformity

Annex to Certificate No.:

IECEx UL 17.0099X

Issue No.: 1

Page 2 of 2

## MARKING

Marking has to be readable and indelible; it has to include the following indications:

<p><b>LED Luminaire</b> Certificate No.: IECEx UL 17.0099X <b>RED SKY</b> Ex db IIB T6 Gb Ex tb IIIC T85°C Db -25°C ≤ Ta ≤ +50°C Model: BLK-100-100-240 Driver Model: HLG-100H-36A 100W, 100-240V AC, 50/60Hz, 5000K, MIN.P.F: 0.9, IP65 Mfg No.: _____ Mfg Date: _____ Thread Size and Type: 3/4" NPT WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT WARNING – DO NOT OPEN WHEN ENERGIZED SEE INSTALLATION INSTRUCTIONS CAUTION – USE FASTENERS WITH YIELD STRESS &gt; 450 Mpa <b>Red Sky Lighting LLC</b> Room 516, No.8 HengFei Rd, National Economical Technological Development Zone Nanjing, CHINA</p>	<p><b>LED Luminaire</b> Certificate No.: IECEx UL 17.0099X <b>RED SKY</b> Ex db IIB T6 Gb Ex tb IIIC T85°C Db -25°C ≤ Ta ≤ +50°C Model: BLK-80-100-240 Driver Model: HLG-100H-36A 80W, 100-240V AC, 50/60Hz, 5000K, MIN.P.F: 0.9, IP65 Mfg No.: _____ Mfg Date: _____ Thread Size and Type: 3/4" NPT WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT WARNING – DO NOT OPEN WHEN ENERGIZED SEE INSTALLATION INSTRUCTIONS CAUTION – USE FASTENERS WITH YIELD STRESS &gt; 450 Mpa <b>Red Sky Lighting LLC</b> Room 516, No.8 HengFei Rd, National Economical Technological Development Zone Nanjing, CHINA</p>
<p><b>LED Luminaire</b> Certificate No.: IECEx UL 17.0099X <b>RED SKY</b> Ex db IIB T6 Gb Ex tb IIIC T85°C Db -25°C ≤ Ta ≤ +50°C Model: BLK-150-200-480 Driver Model: HVG-150-36A 150W, 200-480V AC, 50/60Hz, 5000K, MIN.P.F: 0.9, IP65 Mfg No.: _____ Mfg Date: _____ Thread Size and Type: 3/4" NPT WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT WARNING – DO NOT OPEN WHEN ENERGIZED SEE INSTALLATION INSTRUCTIONS CAUTION – USE FASTENERS WITH YIELD STRESS &gt; 450 Mpa <b>Red Sky Lighting LLC</b> Room 516, No.8 HengFei Rd, National Economical Technological Development Zone Nanjing, CHINA</p>	<p><b>LED Luminaire</b> Certificate No.: IECEx UL 17.0099X <b>RED SKY</b> Ex db IIB T6 Gb Ex tb IIIC T85°C Db -25°C ≤ Ta ≤ +50°C Model: BLK-100-200-480 Driver Model: HVG-100-36A 100W, 200-480V AC, 50/60Hz, 5000K, MIN.P.F: 0.9, IP65 Mfg No.: _____ Mfg Date: _____ Thread Size and Type: 3/4" NPT WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT WARNING – DO NOT OPEN WHEN ENERGIZED SEE INSTALLATION INSTRUCTIONS CAUTION – USE FASTENERS WITH YIELD STRESS &gt; 450 Mpa <b>Red Sky Lighting LLC</b> Room 516, No.8 HengFei Rd, National Economical Technological Development Zone Nanjing, CHINA</p>
<p><b>LED Luminaire</b> Certificate No.: IECEx UL 17.0099X <b>RED SKY</b> Ex db IIB T6 Gb Ex tb IIIC T85°C Db -25°C ≤ Ta ≤ +50°C Model: BLK-80-200-480 Driver Model: HVG-100-36A 80W, 200-480V AC, 50/60Hz, 5000K, MIN.P.F: 0.9, IP65 Mfg No.: _____ Mfg Date: _____ Thread Size and Type: 3/4" NPT WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT WARNING – DO NOT OPEN WHEN ENERGIZED SEE INSTALLATION INSTRUCTIONS CAUTION – USE FASTENERS WITH YIELD STRESS &gt; 450 Mpa <b>Red Sky Lighting LLC</b> Room 516, No.8 HengFei Rd, National Economical Technological Development Zone Nanjing, CHINA</p>	<p><b>LED Luminaire</b> Certificate No.: IECEx UL 17.0099X <b>RED SKY</b> Ex db IIB T6 Gb Ex tb IIIC T85°C Db -25°C ≤ Ta ≤ +50°C Model: BLK-150-100-240 Driver Model: HLG-150H-36A 150W, 100-240V AC, 50/60Hz, 5000K, MIN.P.F: 0.9, IP65 Mfg No.: _____ Mfg Date: _____ Thread Size and Type: 3/4" NPT WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT WARNING – DO NOT OPEN WHEN ENERGIZED SEE INSTALLATION INSTRUCTIONS CAUTION – USE FASTENERS WITH YIELD STRESS &gt; 450 Mpa <b>Red Sky Lighting LLC</b> Room 516, No.8 HengFei Rd, National Economical Technological Development Zone Nanjing, CHINA</p>

## ROUTINE EXAMINATIONS AND TESTS

Routine overpressure tests in accordance with IEC 60079-1 Ed. 7 shall be conducted on all units in accordance with clause 15.2.3.2, at a pressure of 136 psi for the duration of not less than 10 seconds. There shall be no sign of damage, deformation or rupture that will invalidate the concept of protection.