



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx LCIE 17.0072X

Issue No: 1

Certificate history:

Issue No. 1 (2019-04-23)

Issue No. 0 (2017-11-23)

Status: **Current**

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Date of Issue: **2019-04-23**

Applicant: **Sunleem Technology Incorporated Company**  
No.15, Xihenggang Street, Yangchenghu Town, Xiangcheng District, Suzhou, Jiangsu,  
China. 215138  
**China**

Equipment: **Explosion-proof LED Lightings - Type : BZD130-\*\***

Optional accessory:

Type of Protection: **Ex db, Ex tb**

Marking:

Ex db IIC T5 Gb

Ex tb IIIC T95°C Db

IECEx LCIE 17.0072 X

(refer to attachment for the full marking)

Approved for issue on behalf of the IECEx  
Certification Body:

Jérôme REYSSON

Position:

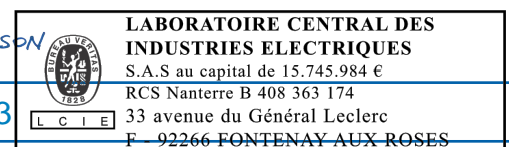
Certification Officer

Signature:  
(for printed version)

  
REYSSON

Date:

2019-04-23



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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Laboratoire Central des Industries Electriques (LCIE)**  
33 Avenue du General Leclerc  
FR-92260 Fontenay-aux-Roses  
France





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Manufacturer: **Sunleem Technology Incorporated Company**  
No.15, Xihenggang Street, Yangchenghu Town, Xiangcheng District, Suzhou, Jiangsu, China. 215138  
**China**

Additional Manufacturing location(s):

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 apparatus 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:

<b>IEC 60079-0 : 2011</b> Edition:6.0	Explosive atmospheres - Part 0: General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-31 : 2013</b> Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical 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:

[FR/LCIE/ExTR17.0091/00](#)

[FR/LCIE/ExTR19.0033/00](#)

Quality Assessment Report:

[DE/TUR/QAR18.0015/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

The BZD130 series explosion-proof LED lights consist of following three compartments:

- connection compartment,
- power supply compartment,
- light source compartment.

Refer to the annex of the certificate for the complete description and the routine tests.

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

- Repair of the threaded joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in table 3 and table 4 of IEC 60079-1:2014 standard.
- When assembly, operation and maintenance, the operator should follow the requirements of IEC 60079-14:2013 standard.
- The enclosure is made of metallic material with sprayed painting. There is potential electrostatic charging hazard. Please see instruction to minimize the risk.
- Cable glands without a clamping device are used in this light. Such cable glands may not provide sufficient clamping and that the user shall provide additional clamping of the cable to ensure that pulling and twisting is not transmitted to the terminations.



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

### Issue 01:

Compagny name and address change.

Modification of QAR reference.

### **Annex:**

[Annex 01 to Certificate IECEx LCIE 17.0072 X issue 01.pdf](#)



## Annex 01 to Certificate IECEx LCIE 17.0072 X issue 01



### FULL EQUIPMENT DESCRIPTION

The BZD130 series explosion-proof LED lights consist of following three compartments:

- Connection compartment,
- Power supply compartment,
- Light source compartment.

There is three lights type according to the table below:

Model	Lights Type	Rated Power
BZD130	I	20W, 30W, 40W
	II	50W, 60W, 80W
	III	100W, 120W

### MARKING

Sunleem Technology Incorporated Company

Address: ...

Type: BZD130-\*\*

Serial number: ...

Year of construction: ...

Ex db IIC T5 Gb

Ex tb IIIC T95°C Db

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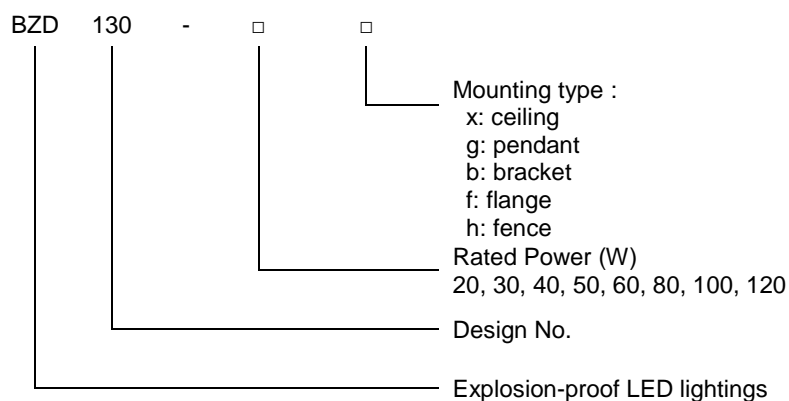
WARNING - DO NOT OPEN WHEN ENERGIZED

WARNING - DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

CAUTION - USE FASTENER WITH YIELD STRESS  $\geq 450$  MPa

### RANGE DETAILS



### RATINGS

Rated Voltage: 100~240V AC, 50/60 Hz

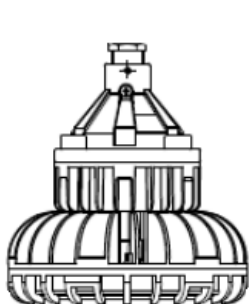
## ROUTINE TESTS

According to clause 16.1.1 of standard IEC 60079-1 each apparatus shall be submitted to an overpressure test under (\*) bars during minimum 10 seconds.

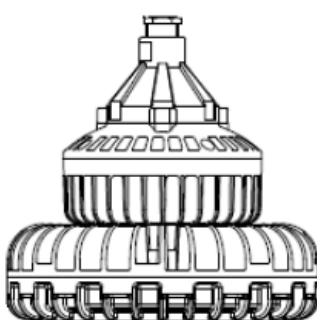
(\*) See values in the table below.

	Overpressure
Connection Compartment	1700 kPa
Power supply Compartment	1500 kPa
Light Source Compartment	1200 kPa

## APPARATUS OVERVIEW



BZD130 (TYPE I)



BZD130 (TYPE II)



BZD130 (TYPE III)