



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

Certificate No.: IECEx LCIE 14.0034X

Issue No: 2

Certificate history:

[Issue No. 2 \(2019-04-23\)](#)

[Issue No. 1 \(2018-02-20\)](#)

[Issue No. 0 \(2014-08-06\)](#)

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 light fittings - Type: CCd92-***

Optional accessory:

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

Marking:

Ex d IIC T... or ...°C Gb

Ex tb IIIC T...°C Db

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See attachment for full marking.

*Approved for issue on behalf of the IECEx
Certification Body:*

Jérôme REYSSON

Position:

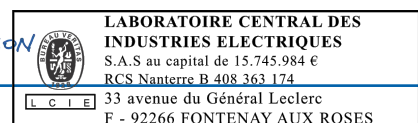
Certification Officer

*Signature:
(for printed version)*



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:

IEC 60079-0 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition:1	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/ExTR14.0038/00](#)

[FR/LCIE/ExTR19.0036/00](#)

Quality Assessment Report:

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



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

CCd92-* explosion-proof light fittings consist of an aluminum alloy enclosure and a toughened glass light transmitting cover. The equipment is divided into three compartments as follows:

- The terminal compartment includes terminals and cable entry for external connection.
- The ballast compartment includes ballast, a capacitor and a trigger (for high pressure sodium lamp and metal halide lamp).
- The lighting compartment includes a lamp holder.

The wire-through part between ballast compartment and lighting compartment is encapsulated.

Rating and specific parameters of the concerned protection mode are given in the attachement.

See attachment for more details.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- a. Repair of the threaded joints must be made in compliance with the structural specifications provided by the manufacturer. Repair must not be made on the basis of values specified in Table 3 or Table 4 of IEC 60079-1:2007 (Ed 6).
- b. The entry shall be equipped with Ex certified cable gland with compatible modes of protection for the intended use.
- c. CAUTION – USE FASTENERS WITH YIELD STRESS ≥ 450 MPa.
- d. In order to ensure the temperature class the apparatus shall be vertically mounted at a maximum of 60 degrees from the vertical.
- e. Potential electrostatic charging hazard. Clean only with a wet cloth (or see instructions).
- f. The cable used shall have an operating temperature greater than 130°C.
- g. The user shall ensure adequate clamping of the cables efficient against pulling and twisting.



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

Issue 01:

Modification of QAR reference (LCIE file #153462).

Issue 02:

Manufacturer name and applicant address change.

Modification of QAR reference.

Annex:

[Annex 01 to Certificate IECEx LCIE 14.0034 X issue 02.pdf](#)



Annex 01 to Certificate IECEx LCIE 14.0034 X issue 02



MARKING

Sunleem Technology Incorporated Company

Address: ...

Type: CCd92-* (2)

Serial number: ...

Year of construction: ...

CCd92-I model:

Ex d IIC T4 or ...°C Gb (1)

Ex tb IIIC T130°C or T...°C Db IP66 (1)

CCd92-III model:

Ex d IIC T3 Gb

Ex tb IIIC T195°C Db IP66

-20°C ≤ Ta ≤ +55°C

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WARNING – AFTER DE-ENERGIZING, DELAY 10 MINUTES BEFORE OPENING

WARNING – DO NOT OPEN WHEN ENERGIZED

WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS

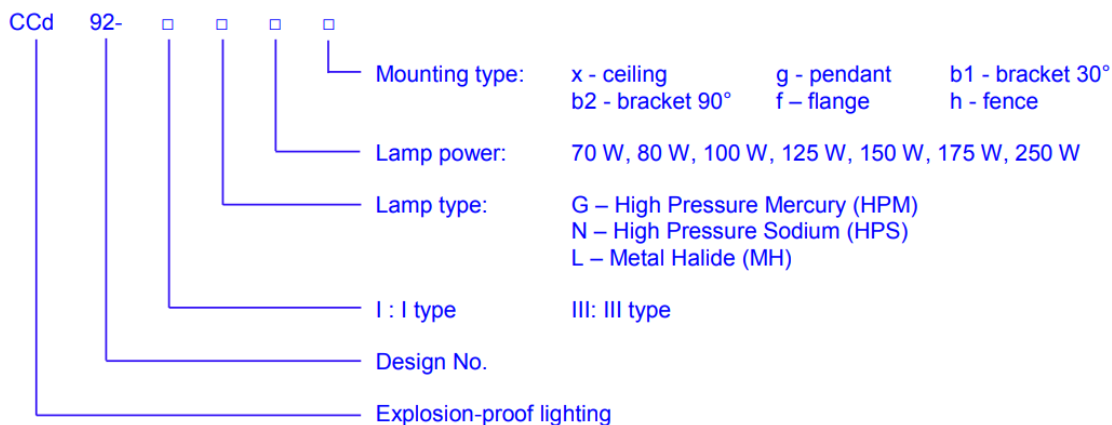
(1): Maximum surface temperature: 152°C with MH 100W and 164°C with MH 150W

(2): Completed as per the type

RANGE DETAILS

The equipment includes of two types: CCd92-I and CCd92-III

Except the volume (CCd92-I model is smaller than CCd92-III model), these two models are identical.



Lamp type	Model	Lamp specification	Ballast	Trigger	Compensation capacitor	Temperature class
High Pressure Mercury	CCd92-III type	HPL-N 250 W	BHLA 250L	/	CP18BU28 18 µF	T3/T195°C
High Pressure Sodium	CCd92-I type	SON 70 W	BSN 70L	SN57	CP12BP28 12 µF	T4/T130°C
		SON 100 W	BSN 100L	SN58(T5)	CP12BP28 12 µF	T4/T130°C
	CCd92-III type	SON 150 W	BSN 150L	SN58(T5)	CP18BU28 18 µF	T3/T195°C
		SON 250 W	BSN 250L	SN58(T5)	CP32ET28 32 µF	T3/T195°C
Metal Halide	CCd92-I type	MH 70 W	BMH 70L	SN58(T15)	CP12BP28 12 µF	T4/T130°C
		MH 100 W	BSN 100L	SN58(T15)	CP12BP28 12 µF	152°C/T152°C
		MH 150 W	BSN 150L	SN58(T15)	CP18BU28 18 µF	164°C/T164°C
	CCd92-III type	MH UPS 175 W	BPI 175L	SI53	CP12BP28 12 µF	T3/T195°C
		HPI PLUS 250 W	BSN 250L 200TS	SI51	CP18BU28 18 µF	T3/T195°C

RATINGS

Rated Voltage: 220~240V AC, 50/60 Hz

ROUTINE TESTS

According to clause 16.1 of IEC 60079-1:2007 (Ed 6) standard, each apparatus shall be submitted to an overpressure test under 2.0 MPa for the terminal compartment, 1.2 MPa for the ballast compartment and 1.3 MPa for the light source compartment during minimum 10 seconds.

APPARATUS OVERVIEW



CCd92-I



CCd92-III