



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 INE 15.0014X**

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Certificate history:

Status: **Current**

Issue No: 2

Issue 1 (2018-09-27)

Issue 0 (2015-07-27)

Date of Issue: 2019-10-23

Applicant: **SAMMODE SA**
24, rue des Amandiers
75020 Paris
France

Equipment: **LED Lighting fixture type LLn : ranges HUTTON, JAMIN, BOYLE and FUMAT**

Optional accessory:

Type of Protection: **nA and tb**

Marking: Ex nA IIC T4 Gc
Ex tb IIIC T65°C Db IP66

Approved for issue on behalf of the IECEx
Certification Body:

Thierry HOUÉIX

Ex Certification Officer

Position:

Signature:
(for printed version)



Digitally signed by
Thierry HOUÉIX

Date:

2019-10-23

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

INERIS
Institut National de l'Environnement Industriel et des Risques
BP n2 / Parc Technologique ALATA
F-60550 Verneuil-en-Halatte
France



controlling risks
for sustainable development



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Manufacturer: **SAMMODE SA**
24, rue des Amandiers
75020 Paris
France

Additional
manufacturing
locations:

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 60079-15:2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

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:

FR/INE/ExTR15.0024/00

FR/INE/ExTR15.0024/01

FR/INE/ExTR15.0024/02

Quality Assessment Report:

FR/INE/QAR13.0006/05



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The lighting fixtures type LLn are made of LEDs attached to printed circuit board, protected by an enclosure which is made with a transparent body and two flanges in stainless steel only one is mobile and can be opened.

The characteristics of the LLn enclosures depend on the commercial range (BOYLE, HUTTON, JAMIN or FUMAT).

These enclosures are protected by Ex tb and get the degree of protection IP66 in accordance with the IEC 60529 standard.

The LED lighting fixtures type LLn are certified for the level of protection Db for Dust Group IIIC and Temperature Class T65°C and in category Gc for Gas Group IIC and Temperature Class T4 for Gas Application.

The lighting fixtures have not been completely assessed and tested in accordance with standard IEC 60079-28:2015.

Assessment according to IEC 60079-28 standard is not included.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The operating temperature range of LED lighting fixtures type LLn is from -20°C to +40°C or fro -40°C to +40°C for HUTTON.
- The enclosure presents a potential electrostatic charging hazard, safety precautions are defined in the instructions guide about how to proceed with installation and maintenance activities so electrostatic build-up risk is minimized.

The other conditions of use are stipulated in the instructions.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

For issue 01:

New product range: FUMAT
New module and Driver generation

For the Issue 02 :

- New LED modules generation
- New type of driver for HUTTON -12H
- IP66 (instead of IP64) in accordance with the IEC 60529 standard.

Annex:

IECEx INE 15.0014X-02_Annex.pdf



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PARAMETERS RELATING TO THE SAFETY

Commercial Range		Rated Current	Power	Flux	Driver type	Rated Voltage	Rated frequency
HUTTON	12H	82 mA	16 W	1850 lm	Philips - Xi LP 40W 0.2-0.7A SL 230V S175 sXt	220/240 V	50/60 Hz
	13H	114 mA	23 W	2775 lm	1 x LCI 65W 150mA-400mA TOP INDUSTRY sl - Tridonic		
	15H	176 mA	38 W	4625 lm			
	23H	206 mA	45 W	5550 lm			
	25H	331 mA	75 W	9250 lm	1 x LCI 100W 350mA-900mA TOP INDUSTRY sl - Tridonic		
JAMIN / BOYLE	12H	77 mA	16 W	1850 lm	1 x LC 25W 100mA-500mA flexC lp EXC	220/240 V	50/60 Hz
	13H	110 mA	23 W	2775 lm	1 x LC 50W 100mA-400mA flexC lp EXC		
	15H	167 mA	37 W	4625 lm			
	23H	210 mA	44 W	5550 lm	1 x LC 75W 100mA-400mA flexC lp EXC		
	25H	322 mA	73 W	9250 lm	2 x LC 50W 100mA-400mA flexC lp EXC		
FUMAT	16H	353 mA	80 W	9500 lm	1 x LCI 100W 350mA-900mA TOP INDUSTRY sl - Tridonic	220/240 V	50/60 Hz

MARKING

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

- SAMMODE SA
- 75020 Paris - FRANCE
- LLn
- IECEx INE 15.0014X
- (Serial number)
- Ex nA IIC T4 Gc
- Ex tb IIIC T65°C Db IP66
- WARNINGS:
 - DO NOT OPEN WHEN ENERGIZED
 - POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

Marking may be carried out in the language of the country of use.

The equipment has also to carry the marking normally stipulated by its construction standards.

ROUTINE EXAMINATIONS AND TESTS

Each pieces of equipment defined above must have successfully passed; before delivery:

- In accordance with clause 23.2.1 of the IEC 60079-15 standard, a test of dielectric strength on each of the different circuits of the connection units, performed according to the relevant standards.