



# 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 BAS 09.0062

Issue No: 1

Certificate history:

Issue No. 1 (2016-02-24)

Issue No. 0 (2009-06-08)

Status: **Current**

Page 1 of 4

Date of Issue: **2016-02-24**

Applicant: **Chalmit Lighting**  
388 Hillington Road  
Glasgow  
G52 4BL  
**United Kingdom**

Equipment: **NEXLED Luminaire**

*Optional accessory:*

Type of Protection: **Increased safety, encapsulation, intrinsic safety**

Marking: Ex e ib mb IIC T4 Gb -45°C ≤ Tamb ≤ +55°C  
Ex tb III C T95°C Db IP66/67  
or  
Ex e mb IIC T4 Gb -45°C ≤ Tamb ≤ +55°C  
Ex tb III C T95°C Db IP66/67

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

R S Sinclair

*Position:*

Technical Manager

*Signature:  
(for printed version)*

*Date:*

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:

**SGS Baseefa Limited**  
Rockhead Business Park  
Staden Lane  
Buxton  
Derbyshire  
SK17 9RZ  
United Kingdom





# IECEX Certificate of Conformity

Certificate No: IECEX BAS 09.0062

Issue No: 1

Date of Issue: **2016-02-24**

Page 2 of 4

Manufacturer: **Chalmit Lighting**  
388 Hillington Road  
Glasgow  
G52 4BL  
**United Kingdom**

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 electrical 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 : 2007-10</b> Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
<b>IEC 60079-1 : 2014-06</b> Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
<b>IEC 60079-11 : 2006</b> Edition:5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
<b>IEC 60079-18 : 2004</b> Edition:2.0	Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus
<b>IEC 60079-7 : 2006-07</b> Edition:4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
<b>IEC 61241-1 : 2004</b> Edition:1	Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

*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:

[GB/BAS/ExTR09.0086/00](#)

[GB/BAS/ExTR16.0007/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0027/05](#)



# IECEX Certificate of Conformity

Certificate No: IECEx BAS 09.0062

Issue No: 1

Date of Issue: 2016-02-24

Page 3 of 4

## Schedule

### EQUIPMENT:

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

The NEXLED Luminaire comprises a cast aluminium flat rectangular base and a cover with a glass diffuser. The diffuser is attached to the cover with two screw clips and the cover is attached to the base with four screws. Ingress protection is provided with a silicone rubber gasket between the base and the diffuser.

The internal arrangement comprises up to eight 1W light emitting diodes mounted onto an aluminium heatsink, an encapsulated electronic control module and terminal strips. An emergency version is available with a NiCd rechargeable battery pack. The control gear monitors the temperature of the batteries and reduces the charge to safe levels if the temperature drops below 5°C. A heater may be wrapped round the battery pack in which case the control gear turns on the heater if the temperature drops below 5°C.

The luminaire is rated 110 to 254V ac or dc, 50/60/0 Hz, 2W to 8W depending upon the number of LED's fitted.

The luminaires may be provided with a flameproof isolation switch to IECEx EPS 14.0091U.

When the isolation switch is provided the luminaire is marked:-

For the emergency Luminaires:-

Ex db e ib mb IIC T4 Gb Ta -45°C to +55°C  
Ex tb III C T95°C Db IP66/67  
110-254Vac/dc

For the non-emergency Luminaires:-

Ex db e mb IIC T4 Gb Ta -45°C to +55°C  
Ex tb III C T95°C Db IP66/67  
110-254Vac/dc

The enclosure is provided with cable entry holes which must be fitted with Ex e approved cable glands which maintain the ingress protection of the enclosure.

**SPECIFIC CONDITIONS OF USE: NO**



# IECEX Certificate of Conformity

Certificate No: IECEX BAS 09.0062

Issue No: 1

Date of Issue: 2016-02-24

Page 4 of 4

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

### Variation 1.1

To permit the option of a flameproof isolation switch to IECEX EPS 14.0091U.

When the isolation switch is provided the luminaire is marked:-

For the emergency Luminaires:-

Ex db e ib mb IIC T4 Gb Ta -45°C to +55°C  
Ex tb III C T95°C Db IP66/67  
110-254Vac/dc

For the non-emergency Luminaires:-

Ex db e mb IIC T4 Gb Ta -45°C to +55°C  
Ex tb III C T95°C Db IP66/67  
110-254Vac/dc

ExTR: GB/BAS/ExTR16.0007/00

File Reference: 15/0940