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 BAS 16.0019X issue No.:0	Certificate history:
Status:	Current	
Date of Issue:	2016-06-22	Page 1 of 3

Applicant:

Chalmit Lighting
388 Hillington Road,
Glasgow,
G52 4BL
United Kingdom

Equipment:
Optional accessory:

Type 238 Wellglass LED fitting

Type of Protection:

Flameproof, increased safety, optical radiation, enclosure

Marking:

Marking for Type 238 LED
Ex db eb op is IIB T5 Gb -40°C ≤ Ta ≤ +55°C
Ex op is tb IIIC T100°C Db IP6X

Optional marking for Type 238 LED SRG
Ex db eb op is IIB T5 Gb -40°C ≤ Ta ≤ +50°C
Ex op is tb IIIC T100°C Db IP6X

Approved for issue on behalf of the IECEx Certification Body: R S Sinclair

Position: Technical Manager

Signature:
(for printed version)

Date: 10/8/16

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.

Certificate issued by:

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

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Date of Issue: 2016-06-22 Issue No.: 0

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:

IEC 60079-0 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-28 : 2015 Edition: 2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition: 2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition: 5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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/ExTR16.0045/00

Quality Assessment Report:

GB/BAS/QAR06.0027/05

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Schedule

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

The Type 238 Wellglass L.E.D. Luminaire is for use in areas containing either IIB gasses or IIIC dust, it has a temperature class of T5 and is for use in a ambient temperature ranging from -40°C to + 55°C. In addition the equipment may be fitted with an optional surge protector, and in this configuration the equipment will be designated 238 SRG and the ambient temperature range reduced to -40°C to +50°C, due to the temperature limitations of this component.

The Type 238 Wellglass LED luminaire comprises a circular body and cover manufactured from marine grade aluminium alloy, which may be provided with an optional PTFE coating. The flameproof cover is manufactured with a wellglass sealed in place to form a cemented joint. The cover is secured to the body using 6-off M10 x 35 Cap screws creating a flanged flamepath. The body has an integral increased safety terminal box, which may be fitted with up to 2 line bushings which provide interconnection between the increased safety terminal chamber and the flameproof enclosure. The circular body also provides both Internal and external earth facilities.

The luminaire shall be fitted with 5 Nichia COB LED arrays which are supplied from a 75W 350mA LED driver having a input voltage of 110-254Vac output voltage of 107 – 214Vdc

The enclosure is fitted with a label advising "Do not open when an explosive atmosphere is present" and "Do not open when energised".

CONDITIONS OF CERTIFICATION: YES as shown below:

1. All terminal screws, used and unused, shall be tightened down to between 1.2 Nm and 2Nm.
2. Leads connected to the terminals shall be insulated for the appropriate voltage and the insulation shall extend to within 1 mm of the metal terminal throat.
3. The terminals are designed for 1 conductor per Terminal throat.