



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.: issue No.: Certificate history:

Status:

Date of Issue: **2011-04-19** Page 1 of 3

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

Electrical Apparatus: **Evolution Junior Floodlight**
Optional accessory:

Type of Protection: **Flameproof, Increased safety and Dust protected**

Marking: **Ex d e IIB Ta -50° to +**°C Gb**
Ex tb IIIC T Ta -**°C to +**°C Db IP66/67**

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

pp R S Sinclair *M Powney*

Position: Managing Director

Signature:
(for printed version)

M Powney

19/4/11

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:

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





IECEX Certificate of Conformity

Certificate No.: IECEx BAS 11.0020

Date of Issue: 2011-04-19

Issue No.: 0

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

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 : 2007-10** Explosive atmospheres - Part 0: Equipment - General requirements
Edition: 5
- IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition: 6
- IEC 60079-31 : 2008** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition: 1
- IEC 60079-7 : 2006-07** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition: 4

*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/ExTR11.0038/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0027/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Evolution Junior Floodlight comprises a sand cast or die cast aluminium alloy rectangular lamp housing with an integral increased safety terminal enclosure at one end and a threaded cover at the other. A potted lampholder, containing an ignitor, passes through the wall of the terminal enclosure into the lamp enclosure. Re-lamping is by withdrawal of the lampholder. Cables are passed from the terminal enclosure into the lamp holder and the lamp enclosure via line bushings to IECEx BAS 07.0076U or IECEx PTB 06.0093U. The lamp enclosure contains either a 70W SON/T or a 70W HQI-E lamp, a ballast located behind the lamp reflector and a capacitor located behind the threaded cover. Alternatively the control gear may be located remotely. The terminal enclosure houses terminals to IECEx SIR05.0037U and is provided with stopping plugs to IECEx BAS06.0029U.

Cemented into a recess in the lamp housing is a glass window, which is retained by a rectangular frame, secured by screws, the heads of which are potted to prevent removal.

The floodlight may be manufactured from alternative materials of brass or gunmetal, and may be provided with various light shields and a window cover guard.

The floodlight may be provided without the threaded cover, the ballast, the capacitor and the bushing into the lamp enclosure, when fitted with double ended tungsten halogen lamps of 150, 200, 250 or 300W. A secondary glass may be clamped in contact with the cover glass for these fittings.

The floodlight is rated up to 277V a.c. 300W, and the temperature classification, dust marking and the ambient temperature range for the various lamps are indicated in the attached annex.

CONDITIONS OF CERTIFICATION: NO



The Evolution Junior Floodlight comprises a sand cast or die cast aluminium alloy rectangular lamp housing with an integral increased safety terminal enclosure at one end and a threaded cover at the other. A potted lampholder, containing an ignitor, passes through the wall of the terminal enclosure into the lamp enclosure. Re-lamping is by withdrawal of the lampholder. Cables are passed from the terminal enclosure into the lamp holder and the lamp enclosure via line bushings to IECEx BAS 07.0076U or IECEx PTB 06.0093U. The lamp enclosure contains either a 70W SON/T or a 70W HQI-E lamp, a ballast located behind the lamp reflector and a capacitor located behind the threaded cover. Alternatively the control gear may be located remotely. The terminal enclosure houses terminals to IECEx SIR05.0037U and is provided with stopping plugs to IECEx BAS06.0029U.

Cemented into a recess in the lamp housing is a glass window, which is retained by a rectangular frame, secured by screws, the heads of which are potted to prevent removal.

The floodlight may be manufactured from alternative materials of brass or gunmetal, and may be provided with various light shields and a window cover guard.

The floodlight may be provided without the threaded cover, the ballast, the capacitor and the bushing into the lamp enclosure, when fitted with double ended tungsten halogen lamps of 150, 200, 250 or 300W. A secondary glass may be clamped in contact with the cover glass for these fittings.

The floodlight is rated up to 277V a.c. 300W, and the temperature classification, dust marking and the ambient temperature range for the various lamps are indicated below.

Lamp	Maximum Wattage	Secondary Glass Fitted	Temperature Classification	Dust Marking	Ambient Temperature Range
Tungsten Halogen	300	Yes	T2	T255°C	-50°C to +40°C
		No	T2	T225°C	-50°C to +50°C
	250	Yes	T2	T225°C	-50°C to +40°C
		No	T3	T190°C	-50°C to +20°C
		Yes	T2	T225°C	-50°C to +50°C
		No	T3	T190°C	-50°C to +40°C
	200	Yes	T3	T190°C	-50°C to +25°C
		No	T3	T170°C	-50°C to +55°C
150	Yes	T3	T190°C	-50°C to +55°C	
	-	T3	T135°C	-50°C to +55°C	
SON-T	70	-	T4	T120°C	-50°C to +40°C
		-	T3	T135°C	-50°C to +55°C
HQI-E	70	-	T3	T135°C	-50°C to +55°C
		-	T4	T120°C	-50°C to +40°C

Cable entry holes are provided as specified on the certified drawings for the accommodation of suitable cable entry devices, with or without the interposition of a suitable thread adapter. Unused entries are to be fitted with suitable certified stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure.