



# 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](http://www.iecex.com)

Certificate No.: **IECEx BAS 16.0076** Page 1 of 4 [Certificate history:](#)  
Issue 0 (2016-09-21)

Status: **Current** Issue No: 1

Date of Issue: 2021-10-07

Applicant: **Wolf Safety Lamp Company Ltd**  
Saxon Road Works  
Sheffield  
S8 0YA  
United Kingdom

Equipment: **Wolf Handlamps H-\*\*\*\***

Optional accessory:

Type of Protection: **Intrinsic safety, Increased safety. Dust protection by enclosure.**

Marking: **H-4DCA:- Ex eb ib IIC T4 Gb (Ta = -10°C to +40°) Ex tb IIIC T135°C Db**  
**H-4DCALED:- Ex ib IIC T4 Gb (Ta = -10°C to +40°) Ex ib IIIB T135°C Db**  
**H-251ALED:- Ex ib IIC T4 Gb (Ta = -10/-20°C to +40°C) Ex ib IIIB T170°C Db**

Approved for issue on behalf of the IECEx  
Certification Body:

**R.Sinclair**

Position:

**Technical Manager**

Signature:  
(for printed version)

Date:

8/10/2021

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 [www.iecex.com](http://www.iecex.com) or use of this QR Code.



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 16.0076**

Page 2 of 4

Date of issue: 2021-10-07

Issue No: 1

Manufacturer: **Wolf Safety Lamp Company Ltd**  
Saxon Road Works  
Sheffield  
S8 0YA  
**United Kingdom**

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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2017** Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

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:

[GB/BAS/ExTR15.0049/00](#)

[GB/BAS/ExTR21.0070/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0017/10](#)



# IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 16.0076**

Page 3 of 4

Date of issue: 2021-10-07

Issue No: 1

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

### Equipment

The Wolfrite Handlamp H-\*\*\*\* models H-4DCA, H-4DCALED & H-251ALED are portable handlamps with a moulded anti-static plastic case and lens ring, and a toughened glass lens. The lens is sealed to the lens ring and the lens ring is sealed to the case by O-rings/seals. The lens ring screws on to the body and as an option may be locked in place by a socket head lock screw.

The switch slider mechanism contains a magnet which operates an internally hermetically sealed reed switch.

The handlamps are considered outside the scope of IEC 60079-28:2015 as, according to the IEC published interpretation sheet for the standard, they are excluded from the scope by virtue of not having a focal point in the hazardous area.

### H-4DCA

The H-4DCA is marked: **Ex eb ib IIC T4 Gb (-10°C ≤ Ta ≤ +40°C) Ex tb IIC T135°C Db**

The light source is a 4.8V 0.5A type H-141 bulb.

The H-4DCA is powered by four R20 or LR20 cells held in a removable cassette.

The permitted cell types are any R20 cell, or LR20 cells of the following types:- Varta Universal Alkaline, Varta Alkaline Value Pack, Varta Electric Power, Kodak Alkaline, Exide Alkaline, Cegassa Alkaline, Duracell Alkaline, Duracell Plus, Duracell Procell, Duracell Industrial, HiTech Alkaline Professional, RS Alkaline, Sanyo Alkaline, Duracell Ultra, Energizer Alkaline, Energiser Industrial, Eveready Gold, Rayovac Maximum, Pifco Optimax, Procell (grey).

### H-4DCALED

The H-4DCALED is marked: **Ex ib IIC T4 Gb (-10°C ≤ Ta ≤ +40°C) Ex ib IIIB T135°C Db**

The light source is a Wolf LED H-84 module coloured green.

The H-4DCALED is powered by four R20 or LR20 cells held in a removable cassette.

The permitted cell types are any R20 cell, or LR20 cells of the following types:- Varta Universal Alkaline, Varta Alkaline Value Pack, Varta Electric Power, Kodak Alkaline, Exide Alkaline, Cegassa Alkaline, Duracell Alkaline, Duracell Plus, Duracell Procell, Duracell Industrial, HiTech Alkaline Professional, RS Alkaline, Sanyo Alkaline, Duracell Ultra, Energizer Alkaline, Energiser Industrial, Eveready Gold, Rayovac Maximum, Pifco Optimax, Procell (grey).

### H-251ALED

The H-251ALED is marked: **Ex ib IIC T4 Gb (-10°C/-20°C ≤ Ta ≤ +40°C) Ex ib IIIB T170°C Db**

A lower ambient temperature of either -10°C or of -20°C will be marked on the label depending on build options.

The light source is a Wolf LED H-88 module coloured yellow.

Power is provided by means of a rechargeable battery pack containing two sealed lead acid cells and an active current limiting device. Two metal studs passing through the wall of the enclosure allow the torch to be placed on the charging apparatus with the connections aligning with the two studs.

The charging contacts are rated  $U_m = 10V$  d.c.

The H-251ALED is designed to be charged from a Wolf C-251 charger while in safe areas.

## SPECIFIC CONDITIONS OF USE: NO



# IECEx Certificate of Conformity

Certificate No.: **IECEx BAS 16.0076**

Page 4 of 4

Date of issue: 2021-10-07

Issue No: 1

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

### Variation 1.1

To permit:-

- The introduction of the H-4DCALED handlamp.
- The introduction of a new LED module for the H-251ALED.
- Alternative dissipative additives.
- The removal of the H-3DCA.
- The removal of "op is" from the marking code as, according to the IEC published interpretation sheet for the standard, the handlamps are excluded from the scope of IEC 60079-28 by virtue of not having a focal point in the hazardous area.
- The removal of both previous "X" conditions.
- Consideration of EN IEC 60079-0:2018.

ExTR: **GB/BAS/ExTR21.0070/00**

File Reference: **19/0536**