

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 EU - Type Examination Certificate **BAS00ATEX2176X – Issue 9**
Number:

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **Wolflite Handlamps H-******

5 Manufacturer: **Wolf Safety Lamp Co Ltd**

6 Address: **Sheffield, S8 0YA**

7 This re-issued certificate extends EC - Type Examination Certificate No. BAS00ATEX2176X to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to

8 The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. SGS Baseefa, Notified Body Number 1180, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, is responsible only for the additional work relating to this re-issued certificate and any other supplementary certificate it has issued.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR15.0049/00**

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013 EN 60079-7:2015 EN 60079-11:2012 EN 60079-28:2015 EN60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

11 This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following :

⊕ (see schedule)

SGS Baseefa Customer Reference No. **1112**

Project File No. **14/0937**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.sgs.com/SGSBaseefa/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Baseefa Limited

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail baseefa@sgs.com web site www.sgs.co.uk/baseefa

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN



R S SINCLAIR
TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13

Schedule

14

Certificate Number BAS00ATEX2176X – Issue 9

15 Description of Product

The Wolfite Handlamp H-**** models H-4DCA, H-3DCA & 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.

H-4DCA

The H-4DCA is marked: $\text{Ex II 2GD Ex eb ib IIC T4 Gb } (-10^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}) \text{ Ex tb IIIC T135}^{\circ}\text{C Db}$

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.

H-3DCA

The H-3DCA is marked: $\text{Ex II 2GD Ex ib op is IIC T4 Gb } (-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}) \text{ Ex ib op is IIIB T170}^{\circ}\text{C Db}$

The light source is a Wolf LED H-79 module.

The H-3DCA is powered by three 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.

H-251ALED

The H-251ALED is marked: $\text{Ex II 2GD Ex ib op is IIC T4 Gb } (-10^{\circ}\text{C}/-20^{\circ}\text{C} \leq \text{Ta} \leq +40^{\circ}\text{C}) \text{ Ex ib op is IIIB T170}^{\circ}\text{C Db}$

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

The light source is a Wolf LED H-79 module.

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 $U_m = 10\text{V d.c.}$

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

16 Report Number

GB/BAS/ExTR15.0049/00

17 Specific Conditions of Use

1. Dust layers must be prevented from building up on the equipment.
2. The H-3DCA may only be fitted with the 3 D-cell battery cassette. The use of the 4 D-cell battery cassette in the H-3DCA is not permitted.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
DC-710 *1	1	5	13/09/16	Wolflite Handlamp H-4DCA ATEX - General Assembly
DC-810 *1	1	4	17/08/16	Wolflite Handlamp H-4DCA ATEX - Cassette Assembly
DC-910 *1	1	1	31/10/00	Halogen Bulb
DC-922 *1 *2	1	1	16/08/16	Wolflite Handlamp - Permitted Cell Types
DC-711 *2	1	1	13/09/16	Wolflite Handlamp H-3DCA LED ATEX - General Assembly
DC-811 *2	1	1	17/08/16	Wolflite Handlamp H-3DCA LED ATEX - Cassette Assembly
EW-812 *2 *3	1	6	18/08/16	Handlamp - LED Centre Contact
EW-710 *3	1	5	13/09/16	Wolflite Handlamp H-251A LED ATEX - General Assembly
EW-810 *3	1	3	18/08/16	Battery Pack H-251A
EW-910 *3	1	8	16/07/09	Wolflite H-251A ATEX - Circuit Details

These drawing are held with IECEx BAS16.0076 Issue 0.

Note *1 - This drawing applies to the H-4DCA.

Note *2 - This drawing applies to the H-3DCA

Note *3 - This drawing applies to the H-251ALED.

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
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None.

20 Certificate History

Certificate No.	Date	Comments
BAS00ATEX2176X	8 November 2000	The release of the prime certificate. The associated test and assessment is documented in Test Reports 02(C)0645.
BAS00ATEX2176X/1	27 September 2002	To permit:- i. An alternative PCB with some components changed to surface mount. ii. Alternative battery connections to the PCB by hard wired contacts.

Certificate No.	Date	Comments
BAS00ATEX2176X/2	29 October 2003	To permit minor changes to the PCB. (project 03/0778)
BAS00ATEX2176X/3	11 October 2006	To permit minor changes to the PCB layout. (project 08/0832)
BAS00ATEX2176X/4	2 August 2007	To permit minor changes to the PCB layout. (project 07/0549)
BAS00ATEX2176X/5	8 May 2008	To permit the use of an LED based bulb replacement assembly. The assessment was recorded in report 07(C)0294 for project 07/0294.
BAS00ATEX2176X/6	5 September 2008	To permit minor mechanical changes to the LED based bulb assembly. (project 08/0616)
BAS00ATEX2176 Issue 7	27 July 2009	This issue incorporates previously issued primary and supplementary certificates into one certificate, permits minor mechanical changes and confirms that the current design meets the requirements of EN 60079-0:2006, EN 60079-7:2007, EN 60079-11:2007, EN 61241-0:2006 and EN 61241-1:2004 (project 09/0254).
BAS00ATEX2176 Issue 8	8 April 2012	To permit the use of an alternative vent, and to permit the use of a new light emitting diode. The associated assessment is documented in Test Report 12(C)0378 for project 12/0378
BAS00ATEX2176X Issue 9	16 September 2016	To permit the H-251A Handlamp that was previously covered by BAS00ATEX2203 to be converted to an LED only Handlamp and added to this certificate. To permit a new Handlamp, the H-3DCA, to be added to this certificate. To permit a rationalisation of the enclosure design for the H-4DCA & H-251ALED. The assessment is recorded in GB/BAS/ExTR15.0049/00 for project 14/0937.
For drawings applicable to each issue, see original of that issue.		