

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 Number: **BAS00ATEX2176 – Issue 10**

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. **BAS00ATEX2176** 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 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

8.1 The original certificate was issued by The Electrical Equipment Certification Service (UK Notified Body 0600). It, and any supplements previously issued by SGS Baseefa Ltd (UK Notified Body 1180) have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. (see certificate history)

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


**EN IEC 60079-0:2018 EN 60079-7:2015+A1:2018 EN 60079-11:2012 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 Fimko Oy Customer Reference No. **1112**

Project File No. **19/0536**

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**SGS Fimko Oy**

Takomotie 8  
FI-00380 Helsinki, Finland  
Telephone +358 (0)9 696 361  
e-mail [sgs.fimko@sgs.com](mailto:sgs.fimko@sgs.com)  
web site [www.sgs.fi](http://www.sgs.fi)

Business ID 0978538-5 Member of the SGS Group (SGA SA)



Tuomas Hänninen  
SGS Fimko Oy

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## Schedule

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Certificate Number BAS00ATEX2176 – Issue 10


### 15 Description of Product

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 EN 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:  II 2GD Ex eb ib IIC T4 Gb (-10°C ≤ Ta ≤ +40°C) Ex tb IIIC 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:  II 2GD 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:  II 2GD 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.

**16 Report Number**

See Certificate History.

**17 Specific Conditions of Use**

None.

**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	6	16/06/21	Wolflite Handlamp H-4DCA - General Assembly
DC-713	1	1	04/08/21	Wolflite Handlamp 4DCALED ATEX - General Assembly
DC-813	1 & 2	01	25/06/2021	Handlamp 2-Part LED Module
DC-913	1 & 2	01	01/09/2021	2-Part LED Module Circuit
DC-922	1	2	04/08/21	Wolflite Handlamp - Permitted Cell Types
EW-710	1	6	22/07/21	Wolflite Handlamp H-251A LED - General Assembly

These drawings are held with IECEx BAS16.0076 and are common to BAS21UKEX0359.

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
DC-810	1	4	17/08/16	Wolflite Handlamp H-4DCA ATEX - Cassette Assembly
DC-910	1	1	31/10/00	Halogen Bulb
EW-810	1	3	18/08/16	Battery Pack H-251A
EW-812	1	6	18/08/16	Handlamp - LED Centre Contact
EW-910	1	8	16/07/09	Wolflite H-251A ATEX - Circuit Details

**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.
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.

<b>Certificate No.</b>	<b>Date</b>	<b>Comments</b>
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.
BAS00ATEX2176 Issue 10	7 October 2021	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 EN 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. See GB/BAS/ExTR21.0070/00 for project 19/0536.
For drawings applicable to each issue, see original of that issue.		