

## Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

<b>Manufacturer</b>	<b>Wolf Safety Lamp Company Ltd</b>
<b>Address</b>	Saxon Road Works, Sheffield, S8 0YA, United Kingdom
<b>Place of Production</b>	Wolf Safety Lamp Company Ltd Saxon Road Works, Sheffield, S8 0YA, United Kingdom
<b>Type</b>	Safety Apparatus
<b>Description</b>	Primary cell powered safety handlamp (H-4DCA, H-4DCALED) Rechargeable battery powered safety handlamp (H-251ALED)
<b>Trade Name</b>	Wolflite H-4DCA, Wolflite H-4DCALED, Wolflite H-251ALED
<b>Application</b>	For use in Zone 1 and Zone 2 of potentially explosive gas, vapour and mist atmospheres and Zone 21 and Zone 22 of potentially explosive dust atmospheres in the Marine and Offshore industries.
<b>Specified Standard</b>	EN IEC 60079-0:2018 EN 60079-1 :2015+A1 :2018, EN IEC 60079-7:2015+A1:2018 EN 60079-11:2012, IEC 60079-11:2011 EN 60079-31 :2014, IEC 60079-31:2013

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

**Peter Huntley-Hawkins**

Principal Specialist to Lloyd's Register EMEA  
A member of the Lloyd's Register group

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

## Type Approval Certificate

### Ratings

#### H-4DCA:

Ex eb ib IIC T4 Gb  
Ex tb IIIC T135°C Db  
Ambient Temp.: -10°Cto +40° C  
Enclosure: IP66  
Bulb: 4.8V0.5A type H-141 bulb.

#### H-4DCALED:

Ex ib IIC T4 Gb  
Ex ib IIIB T135°C Db  
Ambient Temp.: -10°Cto +40° C  
Enclosure: IP66  
LED: LEDH-84 module coloured green

#### H-251ALED:

Ex ib IIC T4 Gb  
Ex ib IIIB T170°C Db  
Ambient Temp.: -10°C/20°Cto +40° C  
Enclosure: IP66  
Bulb: LEDH-88 module coloured yellow.  
H-251ALED only -  $U_m = 10V$  d.c.

### Other Conditions

The handlamps are considered outside the scope of EN 60079-28:2015

#### H-4DCA and H-4DCALED:

Powered by four R20 or LR20 cells held in a removable cassette. Refer to BAS00ATEX2176 Issue 10 for permitted cell types.  
Handlamp to be opened only in non-hazardous (safe) areas.

#### H-251ALED:

Charge only in non-hazardous (safe) areas and use the battery charger designated by the manufacturer only.

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

**Previous Version:** 01/00103(E4)

The Design Appraisal Document LR21440957TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.