



(1) EC-TYPE EXAMINATION CERTIFICATE

(2) Equipment or protective system intended for use in potentially explosive atmospheres
Directive 94/9/EC

(3) EC-Type Examination Certificate nr **LOM 10ATEX2026 X**

(4) Equipment or protection system Cap lamp
Types ALFA-WL, ALFA-WL-MI

(5) Manufacturer Adaro Tecnología, S.A.

(6) Address Parque Científico Tecnológico de Gijón -EDIFICIO ADARO
Jimena Fernández de la Vega, 38
33203 Gijón- Asturias
SPAIN

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) Laboratorio Oficial J.M. Madariaga (LOM), notified body number 0163 in accordance with Article 9 of the Directive 94/9/EC of the European Parliament of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.
The examination and test results are recorded in confidential report nr. **LOM 09.282 AP**

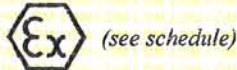
(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

-	Standards	EN 60079-0:2006	EN 60079-11:2007	EN 61241-0:2006
		EN 61241-11:2006	EN 50303:2000	

(10) If the sign X is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-Type Examination Certificate relates only to the design and construction of this specified equipment or protective system in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacture and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following:



Madrid, 2010-04-08



Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY

Angel Vega Remesal
Head of the ATEX

This Certificate is a translation from the original in Spanish. The LOM liability applies only on the Spanish text

(This document may only be reproduced in its entirety and without any change) Page 1 / 3





LABORATORIO OFICIAL J. M. MADARIAGA




(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: **LOM 10ATEX2026 X**

(A3) Description of equipment or protective system

Cap lamp in which the battery and light source share the same enclosure. The battery consists of cells of Li-Ion polymer, and may alternatively incorporate four elements of two elements 750 mAh or 1000 mAh respectively. The light sources consist of two projectors, main and auxiliary, and are based on white light emitting diodes -LED-.

The lamp is manufactured in two variants with the following marking codes and categories

Type	Marking
ALFA-WL	 II 2GD Ex ib IIC T4 Ex ibD 21 IP67 T85 °C
	 I M2 Ex ib I
ALFA-WL-M1	 I M1 Ex ia I

The lamps have external terminals for battery charge. Charging can only be done in areas not classified.

Electric characteristics:

Rated voltage of battery: 3,7 V
Battery capacity: 4x750 mAh / 2 x 1000 mAh
Power of main lamp: 3 W
Power of auxiliary lamp: 1 W

(A4) Test report nr. **LOM 09.282 AP**

(A5) Special conditions for safe use

- The lamp battery can be charged only unclassified areas and using the charger specified by the manufacturer.
- The battery cells replacement may only be made to those described by the manufacturer and based on its instructions.

(A6) Individual tests

None

(A7) Essential Health and Safety Requirements

Explosion safe requirements are covered by application of the standards indicated in page 1/3 of this certificate.





LABORATORIO OFICIAL J. M. MADARIAGA

(A1) SCHEDULE

(A2) EC-Type Examination Certificate: **LOM 10ATEX2026 X**

(A8) Descriptive documents

		Rev.	Date
- Descripción nr.:	-	-	2010-03-17
- Drawings nr.:	WL01	2	2010-03-18
	WL01A	1	2010-03-18
	WL02	0	2009-04-15
	WL03	0	2009-01-13
	WL04	2	2010-03-05
	WL05	1	2009-03-26
	WL06	1	2010-03-05
	WL07	0	2009-04-15
	WL08	0	2009-04-15





(1) EC-TYPE EXAMINATION CERTIFICATE SUPPLEMENT

(2) Equipment or protective system intended for use in potentially explosive atmospheres
Directive 94/9/EC

(3) Supplement nr. 2 to EC-Type Examination Certificate number LOM 10ATEX2026 X

(4) Equipment or Protection System Head torch
Type ALFA-WL

(5) Manufacturer ADARO TECNOLOGIA S. A.

(6) Address Parque Científico Tecnológico de Gijón -EDIFICIO ADARO
Jimena Fernández de la Vega, 38
33203 Gijón- Asturias
SPAIN

(7) Test report nr.: LOM 12.557 ZP

(8) Variations included in this certificate

- The layout of printed circuit boards and some electronic components are changed
- The type designation is unified to ALFA-WL
- The category is changed to 1GD for group II, and to M1 for group I
- Applied standards and updating standards: EN 60079-0:2009, EN 60079-11:2012 and EN 60079-26:2007.

(9) Changes in marking



II 1G Ex ia IIC T4 Ga
II 1D Ex ia IIIC T85 °C Da
I M1 Ex ia I Ma

(10) Changes in the special conditions for a safe use

The conditions of the certificate LOM 10ATEX2026 X are kept, except as indicated in the supplement nr.

(11) Descriptive documents

- Technical dossier nr.:	D-ADR-21-6-1	Rev.	Date
		1	2013-02-25

Getafe, 2013-04-11



Carlos Fernández Ramón
Certification Committee Responsible

This supplement must be an inseparable part together with the base certificate LOM 10ATEX2026 X

This Certificate is a translation from the original in Spanish. The LOM liability applies only on the Spanish text

(This document may only be reproduced in its entirety and without any change)

