



(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 number: **LOM 02ATEX2013 X**

(4) Equipment or Protection System Fluorescent luminaires
Type AB12...

(5) Applicant: Cooper, Crouse-Hinds Division, CEAG
CEAG Nortem, S.A.

(6) Address: Avda. Santa Eulalia, 290
08223 TARRASA (BARCELONA)
SPAIN

(7) This equipment or protective system and any acceptable variation there to 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 00.421 FP**

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- Standards **EN 50014:1997 + A1:1999 + A2:1999**
EN 50018:2000
EN 50281-1-1: 1998

(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 this certificate schedule.

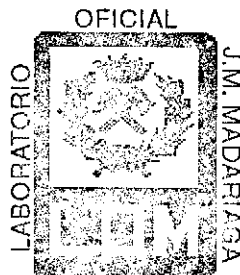
(11) This EC-Type Examination Certificate relates only to the design and construction of this specified equipment or protective system in accordance with the Directive 94/9/EC. Further requirements of the Directive applies to the manufacture and supply of this equipment or protective system. These are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

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

 II 2 G D EEx d IIB T5..T6 / EEx d IIC T5..T6
IP67 T... °C
Ta: -20 °C / +55 °C

Madrid, 21 April 2002

Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY



Angel Vega Remesal
Head of ATEX area

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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: **LOM 02ATEX2013 X**

(A3) Description of equipment or protective system

Cilindric luminaires for tubular fluorescent lamps.

The transparent part is made of glass. It has two different thickness: type S, 7 mm, and type K, 5 mm .

Characteristics

Type	Length (mm)	Number of tubes	Power (W)	Class I		Class II		
				Grupe	Temperature class		Surface temperature	
					Ta (°C) -20 /+40	Ta (°C) -20 /+55	Ta (°C) -20 /+40	Ta (°C) -20 /+55
AB12 120*	707	1	18/20	IIB	T5	T5	T 78 °C	T 93 °C
AB12 140*	1320	1	36/40	IIB				
AB12 16*	1620	1	58/65	IIB				
AB12 220*	707	2	18/20	IIB				
AB12 240*	1320	2	36/40	IIB				
AB12 265*	1620	2	58/65	IIB				
AB12 108C	460	1	8	IIC	T6	T5	T 58 °C	T 73 °C
AB12 111PL	460	1	11	IIC				
AB12 218PL	460	2	18	IIC				
AB12 124PL	460	1	24	IIC	T5	T5	T 76 °C	T 91 °C
AB12 155PL	707	1	55	IIB				
AB12 236PL	707	2	36	IIB				

* = C Electromagnetic ballast and starter
Rated voltage: 220 -230 V 50/60 Hz

* = E Electronic ballast
Rated voltage : 198 -254 V 50/60 Hz
175-280 Vdc

(A4) Test report: **LOM 00.421 FP**

(A5) Special conditions for safe use

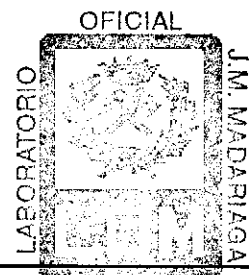
Luminaires can be use only in places with low impact danger of mechanical danger except types AB12*40C and AB12 * 65C having type S glass.

(A6) Essential Health and Safety Requirements

Each manufactured unit must be submitted to a static pressure test, according to paragraph 15.3.1 of EN 50018:2000, to:

- 650 kPa for types AB12 120C, AB12 220C, AB12 155PL y AB12 236PL
- 1100 kPa for the rest of the types

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



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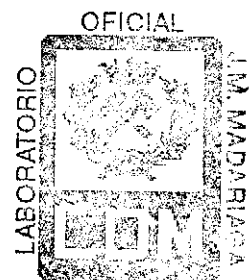
LABORATORIO OFICIAL J. M. MADARIAGA

(A1) SCHEDULE

(A2) EC-Type Examination Certificate: **LOM 02ATEX2013 X**

(A7) Descriptive documents:

		<u>Rev.</u>	<u>Date</u>
Description nr.	AB12.doc (7 pp)	2	2002-04-12
Part list		1	2001-10-22
Drawings nr:	N601114D0037	E	2002-04-16
	N506112-0022	-	2000-05-10
	N506112-0025	-	2000-11-20
	N506112-0026	-	2000-11-20
	N506112A0033	A	2000-11-20
	N506112A0034	A	2000-11-20
	N506112A0035	A	2000-11-20
	N506112A0036	A	2000-11-20
	N506112A0037	A	2000-11-20
	N506112A0033	A	2000-11-20
Schemas nr.:	N506114A0023	A	2000-11-20
	N506114A0024	A	2000-11-20
	N506114A0025	A	2000-11-20
	N506114A0026	A	2000-11-20
	N506114A0027	A	2000-11-20
	N506114A0028	A	2000-11-20
	N506114A0030	A	2000-11-20
	N506114A0031	A	2000-11-20
	N506114A0032	A	2000-11-20
	N506114A0033	A	2000-11-20
	N506114A0034	A	2000-11-20
	N506114A0035	A	2000-11-20
	N506114-0042	-	2000-11-20
	N506114-0043	-	2000-11-20
	N506114-0044	-	2000-11-20
	N506114-0045	-	2000-11-16
	N506114-0046	-	2000-11-16
	N506114-0047	-	2000-11-16
	N506114-0048	-	2000-05-24
	N506114-0049	-	2000-05-24
	N506114-0050	-	2000-05-24
	N506114-0051	-	2000-05-24
	N506114-0052	-	2000-11-27
	N506114-0053	-	2000-11-27
	N506114-0054	-	2000-11-27
	N506114-0055	-	2000-11-27
	N506114-0056	-	2000-11-28
	N506114-0059	-	2002-04-16



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(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** of EC-Type Examination Certificate: **LOM 02ATEX2013 X**

(4) Equipment or protective system: Luminaries
Type AB12...

(5) Applicant: Cooper Crouse-Hinds, S.A.

(6) Address: Avda. Santa Eulalia, 290
08223 TARRASA (BARCELONA)
SPAIN

(7) Test report: **LOM 05.411 DP**

(8) Variations included in this certificate

To include a variant type AB12 NAV 70 that use a H.P. sodium lamp of 70 W plus electric equipment -ballast-

To increase the use for an ambient temperature Ta: -50 °C /+55 °C valid only for IIB group.

This variant uses the 460 mm enclosure.

Class temperature for this variant is T3 for an ambient temperature Ta: -50 /+40 °C or Ta: -50 /+55 °C

(8) Marking changes

Those that affect to electrical and thermal characteristics and type.

(9) Change in individual tests

None

(10) Descriptive documents

- Description nr. AB12 NAV 70.doc

Rev.	Date
0	2005-09-08

Madrid, 19th September 2005

Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY



Angel Vega Remesal
Head of ATEX area

This supplement must be an inseparable part together with the base certificate **LOM 02ATEX2013X**

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(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. **3** of EC-Type Examination Certificate: **LOM 02ATEX2013 X**

(4) Equipment or protective system
Luminaries
Type AB12...

(5) Applicant
COOPER Crouse-Hinds


(6) Address
Avda. Santa Eulalia, 290
08223-TERRASSA (BARCELONA)
SPAIN

(7) Test report nr.: **LOM 08.312 SP**

(8) Variations included in this certificate

- 1 Update to the standards EN 60079-0:2006, EN 60079-1:2007, EN 61241-0:2006 y EN 61241-1:2004
- 2 Update of the manufacturer/applicant name
- 3 Update of type codification for the application of 8W:
AB12 108 C with electromagnetic ballast
AB12 108 EVG with electronic ballast
- 4 To extend the use of the variant AB12 NAV70 for 220-240 V 60 Hz

(9) Changes in marking

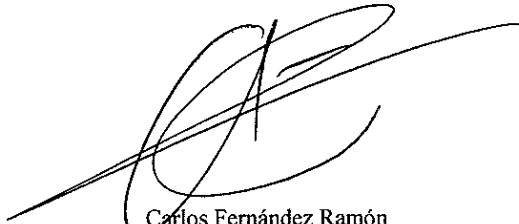
 II 2 GD Ex d IIB T5..T6 / Ex d IIC T5..T6
Ex tD A21 IP67 T...°C

Temperature classes, surface temperatures and ambient temperature ranges are indicated in the base certificate and previous supplements.

(10) Descriptive documents

	Rev.	Date
- Description nr.	AB12_E3	- 2008-05-20
- Drawings nr.:	N506112B0036	B 2008-05-14
	CCH-0805001	0 2008-05-16

Madrid, 2nd March, 2009



Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY



Angel Vega Remesal
Head of ATEX area

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