



SUPPLEMENTARY EU-TYPE EXAMINATION CERTIFICATE

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RCPCR 25.17/5

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

Supplementary EU-Type Examination Certificate Number **LOM 02ATEX2018X/6**

Product Luminaires
Type AB50../SPG1N

Manufacturer Cooper Crouse-Hinds

Address Av. Santa Eulalia, 290
08223- Tarrasa (Barcelona)
ESPAÑA

This supplementary certificate extends EC-Type Examination Certificate No. LOM 02ATEX2018X to apply to products 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.

Laboratorio Oficial J.M. Madariaga (LOM), Notified Body number 0163 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that the product, as modified by this supplementary certificate, 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

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.

Getafe,
Signed electronically by:

Certification Committee

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LABORATORIO OFICIAL J. M. MADARIAGA

13 SCHEDULE

14 Supplementary EU-Type Examination Certificate Number **LOM 02ATEX2018X/6**

15 Description of the variation to the Product

Different parts of the luminaire design are changed:

- Changing the lamp holder using thermoplastic instead of ceramic, as well as the use of a Ba15D socket as an alternative to the E27 type
- Change in the grounding element
- Residual thickness of the hook fixing thread in the SPG1N variant
- Modifications to the cable glands for the variants with indirect entry
- A glass fixing ring is incorporated, supplementary to the sealing

The type of lamps that can be used is upgraded

- Compact fluorescent lamps up to 32 W. the temperature class for these is T5 and the surface temperature is T100 °C at room temperature up to 55 °C
- LED lamps up to 20 W. the temperature class for these is T6 and the surface temperature is T85°C at ambient temperature of up to 55 °C
- Lamp of any type with rated voltage up to 250 Vac-dc

Update to the standards EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-7:2015 y EN 60079-31:2014

Marking update

Direct entry



II 2G Ex db IIC T4, T6 Gb
II 2D Ex tb IIIC T85 °C..T176 °C Db

Indirect entry



II 2G Ex db eb IIC T4, T6 Gb
II 2D Ex tb IIIC T85 °C..T176 °C Db

Ambient temperature : $-20\text{ °C} \leq T_a \leq +55\text{ °C}$ / $-50\text{ °C} \leq T_a \leq +55\text{ °C}$

16 Report Number LOM 17.650W

Individual tests

Luminaires marked with a minimum ambient temperature of -20 °C are exempt from individual pressure tests as they have been subjected to an overpressure test at four times the reference pressure.

Luminaires marked with a minimum ambient temperature of -50 °C must be subjected to an overpressure test at 1453 kPa

17 Specific Conditions of Use

Remain unchanged

18 Essential Health and Safety Requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 15

19 Documents and drawings

Number	Sheets	Issue	Date	Description
AB50/SPG1N Suplemento N° 6	2	0	2018-03-12	Technical description
N511111-0127	1	-	2017-09-20	Set AB50 –Direct entry
N511111-0128	1	-	2017-09-20	Set SPG1N - Portable
N511111-0129	1	-	2017-09-20	Set AB50 – Indirect entry
N511111-0130	1	-	2017-09-20	Set AB50 – Level illuminator
N511114J0104	1	J	2018-01-26	Bushing
N601114-0215	1	-	2018-03-12	Drawing marking
CHBA000134	8	-	-	User manual



(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 02ATEX2018 X**

(4) Equipment or Protection System Luminaries
Type AB50.. / SPG1N

(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 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 01.292 SP**

(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 50019:2000

(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 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:

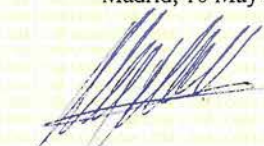
 II 2 G EEx d IIC T3..T6 / EEx de IIC T3..T6
Ta: -20 °C / +55 °C



Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY



Madrid, 10 May 2002



Angel Vega Remesal
Head of ATEX area

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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) **SCHEDULE**

(A2) EC-Type Examination Certificate: **LOM 02ATEX2018 X**

(A3) Description of equipment or protective system

Suspension or portable bulb luminaires are intended to incandescent lamps, incandescent halogens or compact PL with lamp holder type GLS.

Denominación:

Type	Cable entry	Type of protection	Utilization
AB50 IT	Direct, top entrance	EEx d	Suspension
AB50 IU	Direct, lateral entrance	EEx d	
AB50 IW	Indirect With auxiliary box, top entrance	EEx d	
AB50 IWM		EEx de	
AB50 IX	Indirect With auxiliary box, lateral entrance	EEx d	
AB50 IXM		EEx de	
SPG1N	Direct, lateral entrance	EEx d	Portable

Temperature class:

Type Lamp	Power (W)	Temperature class	
		Ta: -20 °C / +40 °C	Ta: -20 °C / +55 °C
Fluorescent PL	11	T6	T6
	60	T4	T3
Incandescence	100	T3	T3
	75	T4	T3
Halogen	100	T3	T3
	150	T3	T3

Rated Voltage: to 250 V

(A4) Test report: nº **LOM 01.292 SP**

(A5) Special conditions for safe use

Power supply cable shall have a continuous service temperature greater or equal to:

Lamp power	Ta: 40 °C	Ta: 55 °C
60-75 W	100 °C	115 °C
100 W	105 °C	120 °C
150 W	130 °C	145 °C

when it is used with direct cable entry.



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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) SCHEDULE

(A2) EC-Type Examination Certificate: **LOM 02ATEX2018 X**

(A6) Essential Health and Safety Requirements

Each manufactured unit must be submitted to a static pressure test of 890 kPa, according to paragraph 15.3.1 of EN 50018:2000.

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

(A7) Descriptive documents:

		<u>Rev.</u>	<u>Date</u>
Description nr.	AB50&SPG1N.doc (5 pp)	1	2002-05-09
Drawings nr.:	N511112A0002	A	2001-07-06
	N511112A0003	A	2001-07-06
	N511112A0004	A	2001-07-06
	N511114B0014	B	2002-05-03
	N511114B0015	B	2002-05-03



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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. 1 to EC-Type Examination Certificate number: **LOM 02ATEX2018 X**
- (4) Equipment or Protection System Suspension bulb luminaries
Type AB50... / SPGIN
- (5) Applicant Cooper, Crouse-Hinds Division, CEAG
CEAG Nortem, S.A.
- (6) Address Avda. Santa Eulalia, 290
08223 TARRASA (BARCELONA)
SPAIN
- (7) This certificate supplement increases the scope of certificate LOM 03ATEX2018 X to include variants as specified in the annex to this certificate supplement and listed documents.
- (8) The examination and test results are recorded in confidential report nr. **LOM 03.059 RP**

This supplement must be an inseparable part together with base certificate.

Madrid, 6 May 2003


Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY




Angel Vega Remesal
Head of ATEX area

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LABORATORIO OFICIAL J. M. MADARIAGA

(A1) **ANNEX**


(A2) Supplement nr. 1 to EC-Type Examination Certificate number: **LOM 02ATEX2018 X**

(A3) Variations included in this supplement

To extend the application of the luminaries type AB50... / SPGIN to combustible dust atmospheres by assessment of the standard **EN 50281-1-1:1998 + A1:2002**

Lamp type	Power (W)	Temperature class		Surface temperature	
		Ta: -20 °C / +40 °C	Ta: -20 °C / +55 °C	Ta: -20 °C / +40 °C	Ta: -20 °C / +55 °C
Fluorescente PL	11	T6	T6	T85 °C	T85 °C
Incandescencia	60	T4	T3	T91 °C	T106 °C
	100	T3	T3	T130 °C	T145 °C
Halógena	75	T4	T3	T120°C	T135°C
	100	T3	T3	T126°C	T141°C
	150	T3	T3	T161°C	T176°C

(A4) Marking variations

 II 2 GD EEx de IIC T* IP66 T* (* = according type)

(A5) Test report nr: **LOM 03.059 RP**

(A6) Essential Health and Safety Requirements

No change

(A7) Descriptive documents

Drawings nr.		<u>Rev.</u>	<u>Date</u>
N511114C0014		C	2002-10-07
N511114C0015		C	2002-10-07





(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 02ATEX2018 X**
- (4) Equipment or protective system: Suspension bulb luminaries
Type AB50... / SPG1N
- (5) Applicant: Cooper Crouse-Hinds, S.A.
- (6) Address: Avda. Santa Eulalia, 290
08223 TARRASA (BARCELONA)
SPAIN

(7) Test report: **LOM 04.651 XP**

(8) Variations included in this certificate

- To increase the use for an ambient temperature Ta: -50 °C /+55 °C

(9) Marking changes

Change to the marking: Ta: -50 °C /+55 °C

(10) Change in individual tests

Each manufactured unit must be submitted to overpressure test of 1360 kPa according paragraph 15.1.3 of EN 50018:2000.

(11) Descriptive documents

-Description nr. Low temperature AB150&SPG1N.doc	<u>Rev.</u>	<u>Date</u>
	-	2004-12-21

Madrid, 23th February 2005


Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY

OFICIAL
LABORATORIO
J.M. MADARIAGA
LOM


Angel Vega Remesal
Head of ATEX area

This supplement must be an inseparable part together with the base certificate **LOM 02ATEX2018 X**
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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 02ATEX2018 X**

(4) Equipment or protective system: Suspension bulb luminaries
Type AB50... / SPGIN

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

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

(7) Test report: **LOM 04.651 XP**

(8) Variations included in this certificate

To exclude individual over-pressure tests to have submitted the prototype at four times the reference pressure.
This exclusion is only valid for enclosures having an ambient temperature T_a : -20 °C / +55 °C

(9) Marking changes

None

(10) Change in individual tests

Over-pressure tests are excluded


(11) Descriptive documents

- Description nr. Ext.Nr.3 AB50.doc

Rev.	Date
-	2005-04-07

Madrid, 31st May 2005

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LABORATORIO J.M. MADARIAGA



Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY



Angel Vega Remesal
Head of ATEX area

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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. 4 of EC-Type Examination Certificate: **LOM 02ATEX2018 X**

(4) Equipment or protective system: Bulb luminarie
Type AB50../SPGIN

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

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

(7) Test report: **LOM 04.648 UP**

(8) Variations included in this certificate

To include a variant foreseen as illuminator for level measurement. This variant contains a lamp of 25 W and its transparent part is partially painted .

(9) Marking changes

Temperature class T6

(10) Descriptive documents

	Rev.	Date
-Description nr. Ext.Nr.4 AB50	0	2005-04-14
-Drawing nr. N511112-0139	-	2005-04-13

Madrid, 23th June 2005

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LABORATORIO OFICIAL J.M. MADARIAGA
LOM

(Signature)
Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY

(Signature)
Angel Vega Remesal
Head of ATEX area

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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. **5** of EC-Type Examination Certificate: **LOM 02ATEX2018 X**

(4) Equipment or protective system
Luminarie
Type AB50.. / SPG1N

(5) Applicant
COOPER Crouse-Hinds


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

(7) Test report nr.: **LOM 08.234 SP**

(8) Variations included in this certificate

- 1 Assessment update to the standards EN 60079-0:2006, EN 60079-1:2007, EN 60079-7:2007 EN 61241-0:2006 and EN 61241-1:2004
- 2 Update of the manufacturer/applicant name

(9) Changes in marking

 II 2 G Ex d IIC T3..T6 / Ex de IIC T3..T6
Ex tD A21 IP66 T...°C

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

(10) Descriptive documents

		<u>Rev.</u>	<u>Date</u>
- Description nr.	Ext varios	-	2008-05-19
- Drawings nr.:	CCH-0805004	0	2008-05-19
	CCH-0805006	0	2008-05-19



Carlos Fernández Ramón
DIRECTOR OF THE LABORATORY

Madrid, 3rd March, 2009



Angel Vega Remesal
Head of ATEX area

This supplement must be an inseparable part together with the base certificate **LOM 02ATEX2018 X**

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