IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx BVS 12.0069**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2014-11-17) Issue 0 (2012-10-05)
Date of Issue:	2018-05-29		
Applicant:	**Cooper Crouse-Hinds GmbH** Neuer Weg-Nord 49 69412 Eberbach **Germany**		
Equipment:	**Fluorescent light fitting type nLL* 08 0**/** ***		
Optional accessory:			
Type of Protection:	**Equipment dust ignition protection by enclosure "t"**		
Marking:	Ex tb IIIC T80°C Db		

Approved for issue on behalf of the IECEx Certification Body: **Jörg Koch**

Position: **Head of Certification Body**

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
On the safe side.

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Date of issue: 2018-05-29

Issue No: 2

Manufacturer: **Cooper Crouse-Hinds GmbH**
Neuer Weg-Nord 49
69412 Eberbach
Germany

Manufacturing locations: **S.C. Cooper Industries Romania S.R.L.**
Zona Industriala Vest, Str. III, Nr. 12
310510 Arad
Romania

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/BVS/ExTR12.0066/02

Quality Assessment Report:

DE/BVS/QAR11.0009/07

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Description

The fluorescent light fitting type nLL* 08 0** / ** * is an explosion-protected electrical apparatus that accommodates single or twin fluorescent lamps with socket G13 to provide lighting in potentially explosive atmospheres of EPL Db.
The electronic ballast type 3 P 2** 08 0 /08 1 according to IECEx TUN 14.0023U is used as ballast for the lamp type nLL* 08 0** / ** *. As an alternative, the separately certified ballast EVG09 according to IECEx BVS 10.0013U may be installed.
The lamps may be replaced inside the potentially explosive atmosphere if the fluorescent light fitting is equipped with a separately certified light switch that meets the requirements of the type of protection Flameproof Enclosure. Either this switch disconnects the lamp at all poles when opening the fluorescent light fitting or the voltage of the fluorescent light fitting is set to zero before opening. The variant without a light switch contains a relevant warning on the outside of the enclosure.
Suitable lamps to be used are fluorescent tubes of type T8.
The fluorescent light fitting enclosure consists of either glass-mat reinforced polyester or of stainless steel; the light-permitting diffuser is made of polycarbonate. The surrounding groove of the protective cover contains a self-adhesive gasket.
The fluorescent light fitting type nLL* 08 0** / ** N is either equipped with one battery consisting of five NiCd cells connected in series, unless the separately certified battery box type eB* * (IECEx BVS 11.0003) is used which is flanged on and supplied with either a battery type U or one of type P, providing 4 Ah or 7 Ah, respectively.
The fluorescent lighting fixture type nLL* 08 0** / ** * can optionally be manufactured with the V-CG-S module according to IECEx BVS 15.0064U.

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Updating to the standards IEC 60079-0:2011 and IEC 60079-31:2013
- The cover of the connection box of the luminaire type nLLM 08 ***/** ** can be manufactured of an alternative material.
- Change of the feature with V-CG-S module instead of the previous used C-GS module

Annex:

BVS_12_0069_Cooper_Annex_Issue2.pdf

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Annex

Subject and Type

Fluorescent light fitting type nLL* 08 0**/** *

Asterisk	Description
1.	Material of enclosure K : Plastic enclosure M : Pole mounted light (Plastic enclosure) S : Stainless steel enclosure
2. - 5.	Power and quantity of lamp 18/18 : 2x 18 W 36 : 1x 36 W 36/36 : 2x 36 W 58 : 1x 58 W 58/58 : 2x 58 W
6.	Features w/o : Standard V-CG-S: Emergency luminaire with V-CG-S module N : Emergency light with internal or external battery

Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Breathing device	IECEx SIR 08.0024U	IEC 60079-0:2007 Ed. 5[1] IEC 60079-7:2006 Ed. 4[1] IEC 60079-31:2008 Ed. 1[1]

[1] No applicable technical differences

[2] Technical differences evaluated and found satisfactory

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Parameters

Type of luminaire	Electronic ballast	Feed-through wiring		Rated voltage	Frequency	Ambient temperature
		with	w/o			
Standard nLL. 08						
nLL* 08 018/18	EVG Luxtronic 2x18 W	x	x	220 V – 240 V AC 220 V – 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +55 °C
nLL* 08 036	EVG Luxtronic 1x36 W	x	x	220 V – 240 V AC 220 V – 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +55 °C
nLL* 08 036/36	EVG Luxtronic 2x36 W	x	x	220 V – 240 V AC 220 V – 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +55 °C
nLL* 08 058	EVG Luxtronic 1x58 W	x	x	220 V – 240 V AC 220 V – 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C
nLL* 08 058/58	EVG Luxtronic 2x58 W	x	x	220 V – 240 V AC 220 V – 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +45 °C
nLL* 08 018/18	EVG 09 218	x	x	110 V – 254 V AC 110 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C [1] -25 °C - +55 °C [2]
nLL* 08 036	EVG 09 136	x	x	110 V – 254 V AC 110 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C [1] -25 °C - +55 °C [2]
nLL* 08 036/36	EVG 09 236	x	x	110 V – 254 V AC 110 V – 250 V DC	50 / 60 Hz 0Hz	-25 °C - +50 °C [1] -25 °C - +55 °C [2]
nLL* 08 058	EVG 09 158	x	x	220 V – 254 V AC 220 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +55 °C
nLL* 08 058/58	EVG 09 258	x		220 V – 254 V AC 220 V – 250 V DC	50-60 Hz 0 Hz	-25 °C - +40 °C
nLL* 08 058/58	EVG 09 258		x	220 V – 254 V AC 220 V – 250 V DC	50-60 Hz 0 Hz	-25 °C - +45 °C

[1] Temperature range for rated voltage $U_N \leq 220$ V

[2] Temperature range for rated voltage $U_N > 220$ V

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Type of luminaire	Electronic ballast	Feed-through wiring		Rated voltage	Frequency	Ambient temperature
		with	w/o			
Emergency light nLL. 08 N - internal battery 4Ah						
nLL* 08 018/18 N	VE/EVG Luxtronic 2x18 W 1.5 h		x	220 V – 240 V AC	50 / 60 Hz	-25 °C - +45 °C
nLL* 08 018/18 N	VE/EVG Luxtronic 2x18 W 3.0 h		x	220 V – 240 V AC	50 / 60 Hz	-25 °C - +45 °C
nLL* 08 036/36 N	VE/EVG Luxtronic 2x36 W 1.5 h		x	220 V – 240 V AC	50 / 60 Hz	-25 °C - +45 °C
Emergency light nLL. 08 N - external battery 4Ah						
nLL* 08 018/18 N	VE/EVG Luxtronic 2x18 W 1.5 h	x	x	220 V – 240 V AC	50 / 60 Hz	-25 °C - +45 °C
nLL* 08 018/18 N	VE/EVG Luxtronic 2x18 W 3 h	x	x	220 V – 240 V AC	50 / 60 Hz	-25 °C - +45 °C
nLL* 08 036/36 N	VE/EVG Luxtronic 2x36 W 1.5 h	x	x	220 V – 240 V AC	50 / 60 Hz	-25 °C - +40 °C
Emergency light nLL. 08 N - external battery 7 Ah						
nLL* 08 036/36 N	VE/EVG Luxtronic 2x36 W 3 h	x		220 V – 240 V AC	50 / 60 Hz	-25 °C - +40 °C
Emergency light nLL. 08 V-CG-S						
nLL* 08 018/18 V-CG-S	EVG 09 218 + V-CG-S	x	x	220 V – 254 V AC 195 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C
nLL* 08 036/036 V-CG-S	EVG 09 236 + V-CG-S	x	x	220 V – 254 V AC 195 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C
nLL* 08 058/058 V-CG-S	EVG 09 258 + V-CG-S	x		220 V – 254 V AC 195 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +40 °C
nLL* 08 058/058 V-CG-S	EVG 09 258 + V-CG-S		x	220 V – 254 V AC 195 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +45 °C