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 10.0003**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 3	Issue 2 (2012-04-24) Issue 1 (2011-09-16) Issue 0 (2010-01-27)
Date of Issue:	2020-04-30		

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

Equipment: **Ex-d Luminaire type dKLK 23 (V-CG-S, LED, LED V-CG-S) GHG 87 1****R*****

Optional accessory:

Type of Protection: **Flameproof enclosure 'd', Equipment dust ignition protection by enclosure 't'**

Marking: Ex db IIC T6 Gb
Ex tb IIIC T80°C Db

Approved for issue on behalf of the IECEx Certification Body: **Dr Franz Eickhoff**

Position: **Deputy Head of Certification Body**

Signature: (for printed version)

Date: 2020-04-30

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 Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
On the safe side.

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Certificate No.: **IECEx BVS 10.0003**

Date of issue: 2020-04-30 Issue No: 3

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

Additional manufacturing locations:

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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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/ExTR10.0003/03

Quality Assessment Report:

DE/BVS/QAR11.0009/10

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

Subject and Type

Ex-d luminaire type dKLK 23 (V-CG-S, LED, LED V-CG-S) GHG 87[1] 1[2] *[3] *[4] *[5] * R * * * *

[1] Ex – Luminaire dKLK 23

[2] Type of apparatus	0 – spaced 1 – dKLK 23
[3] Device version	1 – Compact lamp with integrated electronic ballast 2 – Emergency lamp V-CG-S (without LED) 3 – Flash light lamp 4 – LED – Lamp 5 – Emergency lamp V-CG-S with LED
[4] Colour – protective cap	0 – limpid 1 – red 2 – green 3 – blue 4 – yellow
[5] Lamp efficiency (only valid for standard lamp)	0 – without bulb 1 – 5 W 2 – 7 W 3 – 8 W 4 – 6 W 5 – free

Description:

The flameproof luminaire dKLK 23 (V-CG-S, LED, LED V-CG-S) is suitable for use in hazardous areas zone 1 and zone 2 as well as zone 21 and 22. It is used as luminaire, signal lamp, and as well as an emergency lamp in connection with the emergency sign cube.
The position of the lamp as well as the ambient temperature range may be limited according to the data given in parameters.

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Updating of the standards IEC 60079-0:2017, IEC 60079-1:2014 and IEC 60079-31:2013
- The parameters have expanded for other luminaries.
- Addition of the type dKLk 23 LED V-CG-S

Annex:

BVS_10_0003_Cooper_Annex_issue3.pdf

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Certificate No.: **IECEx BVS 10.0003** **Issue No.: 3**

Annex

Parameters

1	electrical parameters			
	rated voltage	up to	690	V
	rated power dissipation		18	W
	rated isolation current	up to	750	V
2	thermal parameters			
2.1	permitted ambient temperature range			
	Mounting position light beam facing up			
	5 W lamp without safety sign cube		- 20 °C...+ 40	°C
	5 W lamp with safety sign cube		- 20 °C...+ 35	°C
	Mounting position light beam facing down			
	5 W lamp without safety sign cube		- 20 °C...+ 45	°C
	5 W lamp with safety sign cube		- 20 °C...+ 45	°C
	Mounting position light beam facing down			
	10 W lamp without safety sign cube		- 20 °C...+ 40	°C
	10 W lamp with safety sign cube		- 20 °C...+ 40	°C
	Mounting position light beam facing down			
	15 W lamp without safety sign cube		- 20 °C...+ 30	°C
	15 W lamp with safety sign cube		- 20 °C...+ 30	°C
	6 W lamp without safety sign cube		- 20 °C...+ 40	°C
	6 W lamp with safety sign cube		- 20 °C...+ 40	°C
	7 W lamp without safety sign cube		- 20 °C...+ 40	°C
	7 W lamp with safety sign cube		- 20 °C...+ 40	°C
	8 W lamp without safety sign cube		- 20 °C...+ 40	°C
	8 W lamp with safety sign cube		- 20 °C...+ 40	°C
	flash light beam facing up			
	5 W lamp		- 20 °C...+ 45	°C
	6 W lamp (LED) without safety sign cube[1)]		- 20 °C...+ 40	°C
	6 W lamp (LED) with safety sign cube[1)]		- 20 °C...+ 40	°C
	8 W lamp (LED) without safety sign cube[1)]		- 20 °C...+ 35	°C
	8 W lamp (LED) with safety sign cube[1)]		- 20 °C...+ 35	°C
	8 W LED Globe light beam facing down[1)]		- 20 °C...+ 40	°C
	8 W LED Globe light beam facing up[1)]		- 20 °C...+38.5	°C

[1)] Alternatively, LED lamps with same power consumption and same or higher light current can also be used.

2.2	max. surface temperature	T80 °C
	temperature class	T6
3	degrees of protection according to EN 60529	IP66