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 09.0033**

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Status: **Current**

Issue No: 15

Date of Issue: 2018-08-13

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

Equipment: **Fluorescent lighting fixture type eLL* ** *** / ** ***

Optional accessory:

Type of Protection: **Equipment protection by flameproof enclosures "d", Equipment protection by intrinsic safety "i", Equipment protection by encapsulation "m", Protection of equipment and transmission systems using optical radiation, Equipment dust ignition protection by enclosure "t", Equipment protection by increased safety "e"**

Marking: See Annex

Certificate history:

Issue 14 (2018-04-11)
Issue 13 (2017-11-13)
Issue 12 (2017-04-25)
Issue 11 (2016-09-16)
Issue 10 (2015-12-17)
Issue 9 (2015-08-20)
Issue 8 (2014-10-29)
Issue 7 (2014-09-10)
Issue 6 (2013-07-04)
Issue 5 (2013-03-05)

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

Position: **Deputy Head of Certification Body**

Signature: (for printed version)

Date:

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Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

DEKRA
On the safe side.

IECEx Certificate of Conformity

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

Additional manufacturing locations: **S.C. Cooper Industries Romania S.R.L.**
Zona Industrial NV, 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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2014 Explosive atmospheres – Part 18: Equipment protection by encapsulation “m”
Edition:4.0

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

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

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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/ExTR09.0031/15

Quality Assessment Report:

DE/BVS/QAR11.0009/08

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

Subject and type

See Annex

Description

See Annex

Parameters:

See Annex

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
The fluorescent lighting fixture type eLL* ** *** / ** * with separately certified LED Retrofit module (IECEx CML 17.0137U) can be equipped with a diffuser for an ambient temperature range -25 °C up to +50 °C, optionally.

Annex:

BVS_09_0033_CooperCrouse_Annex_issue_15.pdf

IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 09.0033 issue No.: 15**
Annex

Subject and type

Fluorescent lighting fixture type eLL*[1] **[2] ***[3]/**[4] *[5]

1)	K	: Plastic enclosure
	M	: Pole mounted light with plastic enclosure
	S	: Stainless steel enclosure
2)	08	: Type coding of stainless steel luminaire
	92	: Type coding of plastic luminaire
3)	0..	: Bi-pin lamp cap type G13
	3..	: One-pin lamp cap type FA6
	18	: 18 W – 1st fluorescent lamp
	36	: 36 W – 1st fluorescent lamp
	36-1	: 32 W – 1st fluorescent lamp (only without feedthrough wiring)
	58	: 58 W – 1st fluorescent lamp
	LED	: Version with LED-modules
4)	18	: 18 W – 2nd fluorescent lamp
	36	: 36 W – 2nd fluorescent lamp
	36-1	: 32 W – 2nd fluorescent lamp (only without feedthrough wiring)
	58	: 58 W – 2nd fluorescent lamp
	400	: With LED-module 2x15 W
	400-1	: With LED-module 1x13 W
	800	: With LED-module 2x26 W
	400HT	: With LED-module 2x12 W
	800HT	: With LED-module 2x21 W
	400A	: With LED Retrofit module 2x13W (ELLK – 2 - *)
	800A	: With LED Retrofit module 2x26W (ELLK – 4 - *)
5)	None [l]	: Standard
	ZB [l]	: Suitable for emergency power supply (central battery)
	V-CG-S [l]	: With monitoring module
	NIB	: Intelligent single battery system
	DCA [l]	: DC – Disconnection
	NE	: Emergency light version with VE12 218, VE12 236, VE12 236-1, VE 12 400, VE 12 800, VE 12 400HT or VE 12 800HT
	[l] KK	: With one- or both side mounted battery box eB* ** *** in use as a terminal box

Description

The fluorescent lighting fixture type eLL* ** *** / ** * is an explosion-protected electrical apparatus that accommodates single or twin fluorescent luminaires with either lamp cap FA6 (one-pin) or lamp cap G13 (Bi-pin).

Only separately certified EVGs, one single, one double or two single, are used as electronic ballast, such as: EVG09… (IECEx BVS 10.0013U). The Emergency-luminaire variants are used with VE/EVG05 (IECEx BVS 10.0034 U), e.g. VE97… (IECEx BVS 10.0034U), or VE12 218, VE12 236 or VE12 236-1 (IECEx BVS 10.0034U), VE12 400, VE12 400HT, VE12 800 or VE12 800HT
(IECEx BVS 10.0034U).
The luminaires may be replaced inside the potentially explosive atmosphere if the fluorescent lighting fixture is equipped with a separately certified light switch (IECEx BVS 12.0054U) which disconnects the light at all poles or if the voltage of the lighting fixture is set to zero before changing the luminaire. The variant without a light switch contains a relevant warning on the outside of the enclosure.

The lighting fixtures that are equipped with a luminaire size T12 (38 mm diameter) are exclusively used with mechanical protection.

The enclosure of the fixture consists of either glass-mat reinforced polyester or of stainless steel; the light-permitting diffuser is made of polycarbonate.

The lighting fixture type eLL* ** ***/** ZB is intended to be connected to a central battery system or emergency power supply. If the light operates on twin luminaires, each luminaire is supplied by a separate circuit via its own electronic ballast.

The lighting fixture type eLL* ** ***/** NIB is provided with an emergency light device which consists of one or two separately certified EVG09… in conjunction with the supply unit VE97…, and / or the power supply / emergency light unit VE/EVG05…, as well as a battery box type eBK02 NIB or eBS09 NIB (IECEx BVS 11.0003X).

Optionally the luminaires are usable with a reducing bolt M25 - M20 type 2 2462 900 010.

The luminaire can be equipped with separately certified LED modules (IECEx BVS 13.0030U). Those modules can also be used as an exchange light source for luminaires if these are equipped with supply unit VE/EVG05…, VE97… or VE12… or electronic ballast EVG09.

The luminaire types with LED-modules can be equipped with electronic ballasts EVG09 400HT or EVG09 800HT (IECEx BVS 10.0013U) for an extended ambient temperature range.

The luminaire type eLL* ** ***/** V-CG-S with separately certified emergency control unit (IECEx BVS 15.0064U) will be added.

The luminaire type eLL* ** LED 400HT/** NIB or eLL* ** LED 800HT/** NIB can be equipped with an emergency unit, which consists of one or two separately certified EVG09… with the supply unit VE97…, or the electronic ballast and emergency unit VE/EVG05… and battery box type eBK02 NIB or eBS09 NIB (IECEx BVS 11.0003X).

The luminaire type eLL* ** ***/** NE is equipped with emergency control unit consists of a supply unit VE12 218, VE12 236 or VE12 236-1 (IECEx BVS 10.0034U) and the battery box eBK12 NE or eBS12 NE (IECEx BVS 11.0003X) with luminaire switch type GHG 883 00001 R ….
(IECEx BVS 12.0054U).

The luminaire type eLL * ** 036/36 NE with 120 V AC version and through wiring can be used for an ambient temperature up to +40 °C.

Additional, the luminaire type eLL* ** LED 400 NE can be used with emergency control unit consists of a supply unit VE12 400 (IECEx BVS 10.0034U), type eLL* ** LED 800 NE can be used with emergency control unit consists of a supply unit VE12 800 (IECEx BVS 10.0034U).

Alternatively, the luminaire type eLL * ** LED 400-1 can be used with only one LED module strip and the type eLL * ** LED 400 or eLL * ** LED 800 can be equipped with high-gloss reflector.

The luminaire type eLL * ** LED 400HT NE and type eLL * ** LED 800HT NE can be used for an ambient temperature up to +55 °C. Additional, the luminaire type eLL* ** LED 400HT NE can be used with emergency control unit which consists of a supply unit VE12 400HT, type eLL* **
LED 800HT NE can be used with emergency control unit which consists of a supply unit VE12 800HT. In this version the VE12 400 or VE12 800 (IECEx BVS 10.0034U) will be used with reduced output current.

The luminaire can be equipped with separately certified LED modules (CML 17 ATEX 3243 U / IECEx CML 17.0137U). Those modules can also be used as an exchange light source for luminaires if these are equipped with supply unit VE/EVG05…, VE97… or VE12… or electronic ballast EVG09.

The luminaire type eLL* ** ***/** * KK can be equipped with one- or both side mounted battery box eB* ** *** in use of a terminal box.

The cover of the connection box of the luminaire type eLLM ** ***/** * can be built from an alternative material.

Listing of all components used

Subject and type	Certificate
Electronic ballast EVG09…	IECEx BVS 10.0013U
Lamp holder FA6	IECEx BVS 17.0026U
Ballast VE/EVG05, VE97…, VE12 218, VE12 236, VE12 236-1, VE12 400, VE12 800, VE12 400HT or VE12 800HT	IECEx BVS 10.0034U
LED-Module	IECEx BVS 13.0030U
LED Retrofit Module	IECEx CML 17.0137U
Terminal 2410	IECEx BVS 13.0088U

Listing of components used referring to older standards:

Subject and type	Certificate	Standards
Lamp holder FA6	IECEx PTB 08.0045U	IEC 60079-0:2011 Ed. 6 IEC 60079-1:2007 Ed. 6 [1)] IEC 60079-7:2006 Ed. 4 [1)]
Luminaire switch Type GHG 883 00001 R ….	IECEx BVS 12.0054U	IEC 60079-0:2011 Ed. 6 IEC 60079-1:2007 Ed. 6 [1)] IEC 60079-7:2006 Ed. 4 [1)]
Lamp holder G13	IECEx BVS 15.0109U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2006 Ed. 4 [1)]
Emergency control unit V-CG-S	IECEx BVS 15.0064U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2006 Ed. 4 [1)] IEC 60079-11:2011 Ed. 6 IEC 60079-18:2009 Ed. 3 [1)]
Terminal block Type 262-85	IECEx PTB 04.0004U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2006 Ed. 4 [1)]

[1)] No applicable technical differences

Parameters:

Electrical data

One-pin lamp cap type FA6

Type of luminaire	Type of electronic ballast / supply unit	Nominal voltage	Frequency
eLL* ** 318	1x EVG09 118	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 318/18	1x EVG09 218	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 318/18 NE	1 x VE12 218 + Battery boxes eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 Hz – 60 Hz
eLL* ** 336	1x EVG09 136	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 336/36	1x EVG09 236 resp. 2x EVG09 136	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz

Type of luminaire	Type of electronic ballast / supply unit	Nominal voltage	Frequency
eLL* ** 318	1x EVG09 118	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 336/36 NE	1 x VE12 236 + Battery boxes eBK12 NE resp. eBS12 NE	220 V – 254 V AC	50 Hz – 60 Hz
eLL * ** 336/36 NE	1 x VE12 236-1 + Battery boxes eBK 12 NE resp. eBS12 NE	120 V AC	50 Hz – 60 Hz
eLL* ** 358	1x EVG 09 158	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 358/58	1x EVG09 258 resp. 2x EVG09 158	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 336/36 ZB	2x EVG09 136	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 358/58 ZB	2x EVG09 158	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 318/18 NIB	1x VE/EVG05 218 + Battery boxes eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL* ** 318/18 NIB	1x VE/EVG05 218-1 + Battery boxes eBK02 NIB resp. eBS09 NIB	110 V – 127V AC	50 Hz – 60 Hz
eLL* ** 336 NIB	1x VE97236 + 1x EVG09 136 + Battery boxes eBK 02 NIB resp. eBS 09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL* ** 336 NIB	1x VE97 236-1 + 1x EVG09 136 + Battery boxes eBK 02 NIB resp. eBS09 NIB	110 V – 127 V AC	50 Hz – 60 Hz
eLL* ** 336/36 NIB	1x VE97 236 +1x EVG09 236 + Battery boxes eBK 02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL* ** 336/36 NIB	1x VE97 236-1 + 1x EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB	110 V – 127 V AC	50 Hz – 60 Hz

Bi-pin lamp cap type G13

Type of luminaire	Type of electronic ballast / supply unit	Nominal voltage	Frequency
eLL* ** 018 [1)]	1x EVG09 118	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 018/18 [1)]	1x EVG09 218	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 036 [1)]	1x EVG09 136	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz

Type of luminaire	Type of electronic ballast / supply unit	Nominal voltage	Frequency
eLL* ** 036/36 [1)]	1x EVG09 236 resp. 2x EVG09 136	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 058 [1)]	1x EVG09 158	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 058/58 [1)]	1x EVG09 258 resp. 2x EVG09 158	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 036/36 ZB [1)]	2x EVG09 136	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 058/58 ZB [1)]	2x EVG09 158	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 018/18 NIB	1x VE/EVG05 218 + Battery boxes eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL* ** 018/18 NIB	1x VE/EVG05 218-1 + Battery boxes eBK02 NIB resp. eBS 09 NIB	110 V – 127 V AC	50 Hz – 60 Hz
eLL * ** 018/18 NE	1 x VE12 218 + Battery boxes eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 Hz – 60 Hz
eLL * ** 036/36 NE	1 x VE12 236 + Battery boxes eBK12 NE resp. eBS12 NE	220 V – 254 V AC	50 Hz – 60 Hz
eLL * ** 036/36 NE	1 x VE12 236-1 + Battery boxes eBK12 NE resp. eBS12 NE	120 V AC	50 Hz – 60 Hz
eLL* ** 036 NIB	1x VE97 236 + 1x EVG09 136 + Battery boxes eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL* ** 036 NIB	1x VE97 236-1 + 1x EVG09 136 + Battery boxes eBK02 NIB resp. eBS09 NIB	110 V – 127 V AC	50 Hz – 60 Hz
eLL* ** 036/36 NIB	1x VE97 236 + 1x EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL* ** 036/36 NIB	1x VE97 236-1 + 1x EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB	110 V – 127 V AC	50 Hz – 60 Hz
eLL * ** 018/18 DCA [1)]	1x EVG09 218 DCA Version	110 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** 036/36 DCA [1)]	1x EVG09 236 DCA Version	110 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 018/18 V-CG-S [1)]	1x EVG09 218 + V-CG-S Modul	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz

Type of luminaire	Type of electronic ballast / supply unit	Nominal voltage	Frequency
eLL* ** 036/36 V-CG-S [1)]	1x EVG09 236 + V-CG-S Modul	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** 058/58 V-CG-S [1)]	1x EVG09 258 + V-CG-S Modul	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz

[1)] The luminaire type eLL* ** ***/** * KK is equipped with one- or both side mounted battery box eB* ** *** in use of a terminal box.

LED module

Type of luminaire	Type of electronic ballast / supply unit	Nominal voltage	Frequency
eLL* ** LED 400 [1)]	1x EVG09 218	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL* ** LED 800 [1)]	1x EVG09 236	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL* ** LED 800 ZB [1)]	2x EVG09 136	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL* ** LED 400 NIB	1x VE/EVG05 218 + Battery boxes eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL* ** LED 400 NIB	1x VE/EVG05 218-1 + Battery boxes eBK02 NIB resp. eBS09 NIB	110 V – 127V AC	50 Hz – 60 Hz
eLL* ** LED 800 NIB	1x VE97 236 + 1x EVG09 136 resp. EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL* ** LED 800 NIB	1x VE97 236-1 + 1x EVG09 136 resp. EVG09 236 + Battery boxes eBK02 NIB resp. eBS09 NIB	110 V – 127 V AC	50 Hz – 60 Hz
eLL * ** LED 400 NE	1 x VE12 400 + Battery boxes eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 Hz – 60 Hz
eLL * ** LED 800 NE	1 x VE12 800 + Battery boxes eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 Hz – 60 Hz
eLL * ** LED 400 DCA [1)]	1x EVG09 218 DCA Version	110 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800 DCA [1)]	1x EVG09 236 DCA Version	110 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 400HT * [1)]	EVG09 400HT	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800HT * [1)]	EVG09 800HT	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz

Type of luminaire	Type of electronic ballast / supply unit	Nominal voltage	Frequency
eLL * ** LED 400 V-CG-S [1)]	1x EVG09 218 + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 400-1 V-CG-S [1)]	1 x EVG 09 218 + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 400-1 [1)]	1 x EVG 09 218	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800 V-CG-S [1)]	1x EVG09 236 + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 400HT V-CG-S [1)]	1x EVG09 400HT + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800HT V-CG-S [1)]	1x EVG09 800HT + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800HT NIB	1x EVG09 800HT + VE97 236 + eBK02 NIB resp. eBS09 NIB	220 V – 254 V AC	50 Hz – 60 Hz
eLL * ** LED 800HT NIB	1x EVG09 800HT + VE97 236-1 + eBK02 NIB resp. eBS09 NIB	110 V – 127 V AC	50 Hz – 60 Hz
eLL * ** LED 400HT NE	1x VE12 400HT + eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 – 60 Hz
eLL * ** LED 800HT NE	1x VE12 800HT + eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 – 60 Hz
eLL * ** LED 400A * [1)]	1x EVG09 218	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800A * [1)]	1x EVG09 236	110 V – 254 V AC 110 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 400A NE	1 x VE12 400 + Battery boxes eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 Hz – 60 Hz
eLL * ** LED 800A NE	1 x VE12 800 + Battery boxes eBK12 NE resp. eBS12 NE	120 V – 254 V AC	50 Hz – 60 Hz
eLL * ** LED 400A DCA [1)]	1x EVG09 218 DCA Version	110 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800A DCA [1)]	1x EVG09 236 DCA Version	110 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 400A V-CG-S [1)]	1x EVG09 218 + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz
eLL * ** LED 800A V-CG-S [1)]	1x EVG09 236 + V-CG-S Module	220 V – 254 V AC 195 V – 250 V DC	50 Hz – 60 Hz

[1)] The luminaire type eLL* ** ***/** * KK can be equipped with one- or both side mounted battery box eB* ** *** in use of a terminal box.

Thermal data

Type eLL* ** ***/** * [1)]
Ambient temperature range if U < 220 V -25 °C ≤ T_a ≤ +50 °C
Ambient temperature range if U ≥ 220 V -25 °C ≤ T_a ≤ +55 °C

Type eLL* ** *18/18 NIB
Type eLL* ** *18/18 V-CG-S [1)]
Type eLL* ** *36/36 V-CG-S [1)]
Type eLL* ** LED ***HT V-CG-S [1)]
Type eLL* ** LED ***A V-CG-S [1)]
Type eLL* ** LED ***A * [1)] (with diffusor)
Type eLL* ** LED ***A NE (with diffusor)

Ambient temperature range -25 °C ≤ T_a ≤ +50 °C

Type eLL* ** *36/36 NIB
Type eLL* ** *18/18 NE
Type eLL* ** *36/36 NE (220 V - 254 V AC with through-wiring)
Type eLL* ** *36/36 NE (120 V AC without through-wiring)
Type eLL* ** *36/36 ZB [1)]
Type eLL* ** *58/58 ZB [1)]
Type eLL* ** LED ***HT [1)]
Type eLL* ** LED 800HT NIB
Type eLL* ** LED ***HT NE
Type eLL* ** LED ***A * [1)]
Type eLL* ** LED ***A NE

Ambient temperature range -25 °C ≤ T_a ≤ +55 °C

Type eLL* ** *36/36 NE (120 V AC with through-wiring)
Type eLL* ** *58/58 [1)]
Type eLL* ** *58/58 V-CG-S [1)]

Ambient temperature range -25 °C ≤ T_a ≤ +40 °C

Type eLL* ** LED *** * [1)]
Type eLL* ** LED *** V-CG-S [1)]
Type eLL* ** LED 400-1 V-CG-S [1)]
Type eLL* ** LED 400-1 [1)]
Type eLL* ** LED *** NE (120 V - 254 V AC)

Ambient temperature range -25 °C ≤ T_a ≤ +45 °C

[1)] The luminaire type eLL* ** ***/** * KK can be equipped with one- or both side mounted battery box eB* ** *** in use of a terminal box

Marking

Ex db eb IIC T4 Gb	(type without option; ZB; ZB KK; DCA; DCA KK; KK)
Ex db eb mb ib IIC T4 Gb	(type NIB; V-CG-S; V-CG-S KK; NE)
Ex db eb mb ib op is IIC T4 Gb	(type LED NIB; LED NE; LED HT NIB; LED HT NE; LED V-CG-S; LED V-CG-S KK)
Ex db eb mb op is IIC T4 Gb	(type LED; LED KK; LED DCA; LED DCA KK; LED HT; LED HT KK)
Ex tb IIIC T80°C Db	