

Translation

EU-Type Examination Certificate Supplement 2

Equipment intended for use in potentially explosive atmospheres
Directive 2014/34/EU

EU-Type Examination Certificate Number: **BVS 18 ATEX E 037 X**

Product: **Luminaire type ExLin **_* *_**_* *** ***/***

Manufacturer: **Cooper Crouse-Hinds GmbH**

Address: **Neuer Weg-Nord 49, 69412 Eberbach, Germany**

This supplementary certificate extends EU-Type Examination Certificate No. BVS 18 ATEX E 037 X to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

DEKRA Testing and Certification GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product 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.

The examination and test results are recorded in the confidential Report No. BVS PP 18.2158 EU.

The Essential Health and Safety Requirements are assured in consideration of:

EN IEC 60079-0:2018	General requirements
EN 60079-5:2015	Powder filling "q"
EN IEC 60079-7:2015 + A1:2018	Increased Safety "e"
EN 60079-11:2012	Intrinsic Safety "i"
EN 60079-28:2015	Optical radiation "op is"
EN 60079-31:2014	Protection by enclosures "t"

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:



**II 2G Ex eb ib op is q IIC T4/T5 Gb
II 2D Ex op is tb IIIC T* Db**

* See thermal data

DEKRA Testing and Certification GmbH
Bochum, 2019-11-28

Signed: Jörg-Timm Kilisch

Managing Director



Page 1 of 5 of BVS 18 ATEX E 037 X / N2

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13 **Appendix**
 14 **EU-Type Examination Certificate**

**BVS 18 ATEX E 037 X
 Supplement 2**

15 **Product description**

15.1 **Subject and type**

Luminaire type	ExLin	**	*	**	*	***	***	*/
3L-1 = 2400 lm								
4L-1 = 3600 lm								
5L-1 = 4800 lm								
5L-2 = 4800 lm (2 modules 2400 lm)								
7L-2 = 7200 lm (2 modules 3600 lm)								
variants:								
without = standard version								
V-CG-S = with emergency control unit								
different versions								
without influence on explosion protection								
wiring								
1/6 = without through-wiring								
2/6 = with through-wiring								

15.2 **Description**

The Luminaire type ExLin **-* **-* *** ** */* consists of a basic housing made of plastic in type of protection Increased Safety "eb" resp. "tb". One or two LED modules type ** ** * * according to BVS 18 ATEX E 038 U are attached to the basic housing. The LED modules are made of a plastic housing with glass pane in the type of protection Increased Safety "eb" resp. "tb" containing circuits in type of protection Intrinsic Safety "ib" when used in combination with the driver module qTEK ***-* and as well as in type of Protection by Enclosure "tb". The electrical supply is realized by the separately certified Driver Module type qTEK ***-* according to BVS 17 ATEX E 015 U in types of protection Increased Safety "eb" and Powder Filling "q". The electrical connection between basic housing and LED module is done via plug and socket carried out in type of protection Increased Safety "eb" resp. "tb".

Reasons for the supplement:

- EPL Db is added
- V-CG-S function is added
- Type code is modified



15.3 Parameters

15.3.1 Electrical data

Input voltage	standard luminaire	AC	110 V up to 277 V, 50/60 Hz or
		DC	110 V up to 277 V
	V-CG-S variant	AC	220 V up to 254 V, 50/60 Hz or
		DC	195 V up to 250 V

Output power (LED-modules) 22 W / 33 W / 44 W / 67 W

Depending on the type of the luminaire the LED modules are supplied by the appropriate driver module (type qTEK ***-*). The drivers match with the LED modules. Due to that fact there is a standard driver for each type of luminaire or optionally the use of the driver with higher power. Optionally driver type qTEK 00*-* can be used which has a V-CG-S function. This variant is permitted for all luminaires.

Luminaire	LED-module	Permitted drivers			
3L-1	1x LED-module 24 *** **	qTEK 10* - * (Low Power) ¹⁾	qTEK 20* - * (Mid Power)	qTEK 30* - * (High Power)	qTEK 00* - *
4L-1	1x LED-module 36 *** **	---	qTEK 20* - * (Mid Power) ¹⁾		
5L-1	1x LED-module 48 *** **	---			
5L-2	2x LED-module 24 *** **	---	---	qTEK 30* - * (High Power) ¹⁾	
7L-2	2x LED-module 36 *** **	---	---		

¹⁾ standard driver

15.3.2 Thermal data

15.3.2.1 EPL Gb

Permitted ambient temperature range	Luminaire 3L-1	Luminaire 4L-1	Luminaire 5L-1	Luminaire 5L-2	Luminaire 7L-2
-40 °C ... +60 °C ¹⁾	T4	not permitted	not permitted	T4	not permitted
-40 °C ... +55 °C	T4	T4	T4	T4	T4
-40 °C ... +50 °C	T4	T4	T4	T4	T4
-40 °C ... +45 °C	T4	T4	T4	T4	T4
-40 °C ... +40 °C	T5 T4 for use of driver qTEK 00* - *	T4	T5 T4 for use of driver qTEK 00* - *	T5 T4 for use of driver qTEK 00* - *	T4

¹⁾ not permitted if driver qTEK 00* - * with V-CG-S function is used

15.3.2.2 EPL Db

Permitted ambient temperature range	Luminaire 3L-1	Luminaire 4L-1	Luminaire 5L-1	Luminaire 5L-2	Luminaire 7L-2
-40 °C ... +60 °C ¹⁾	95 °C	not permitted	not permitted	95 °C	not permitted
-40 °C ... +55 °C	90 °C	100 °C	110 °C	90 °C	100 °C
-40 °C ... +50 °C	85 °C	95 °C	105 °C	85 °C	95 °C
-40 °C ... +45 °C	80 °C	90 °C	100 °C	80 °C	90 °C
-40 °C ... +40 °C	75 °C	85 °C	95 °C	75 °C	85 °C

¹⁾ not permitted if driver qTEK 00* - * with V-CG-S function is used

16 **Report Number**

BVS PP 18.2158 EU, as of 2019-11-28

17 **Special Conditions for Use**

17.1 Driver module and LED module shall only be used in the following combinations:

Luminaire	LED-module	Permitted drivers			
		qTEK 10* - * (Low Power) ¹⁾	qTEK 20* - * (Mid Power)	qTEK 30* - * (High Power)	qTEK 00* - *
3L-1	1x LED-module 24 ** * **				
4L-1	1x LED-module 36 ** * **	---	qTEK 20* - * (Mid Power) ¹⁾		
5L-1	1x LED-module 48 ** * **	---			
5L-2	2x LED-module 24 ** * **	---			
7L-2	2x LED-module 36 ** * **	---	---	qTEK 30* - * (High Power) ¹⁾	

¹⁾ standard driver

17.2 Depending on the permitted ambient temperature range cable glands with a minimum permissible operating temperature according to the table below shall be used:

T _{amb}	Luminaires 3L-1 and 5L-2			Luminaires 4L-1, 5L-1 and 7L-2		
	Without through- wiring	Through- wiring 10 A	Through- wiring 16 A	Without through- wiring	Through- wiring 10 A	Through- wiring 16 A
	60 °C ¹⁾	70 °C	75 °C	85 °C	not permitted	not permitted
55 °C	70 °C	70 °C	80 °C	70 °C	75 °C	85 °C
50 °C	70 °C	70 °C	75 °C	70 °C	70 °C	80 °C
45 °C	70 °C	70 °C	70 °C	70 °C	70 °C	75 °C
40 °C	70 °C	70 °C	70 °C	70 °C	70 °C	70 °C

¹⁾ not permitted if driver qTEK 00* - * with V-CG-S function is used

17.3 Depending on the permitted ambient temperature range connection cables with a minimum permissible temperature according to the table below shall be used:

T _{amb}	Luminaires 3L-1 and 5L-2			Luminaires 4L-1, 5L-1 and 7L-2		
	Without through- wiring	Through- wiring 10 A	Through- wiring 16 A	Without through- wiring	Through- wiring 10 A	Through- wiring 16 A
	60 °C ¹⁾	70 °C	75 °C	90 °C	not permitted	not permitted
55 °C	70 °C	70 °C	85 °C	70 °C	80 °C	90 °C
50 °C	70 °C	70 °C	80 °C	70 °C	75 °C	85 °C
45 °C	70 °C	70 °C	75 °C	70 °C	70 °C	80 °C
40 °C	70 °C	70 °C	70 °C	70 °C	70 °C	75 °C

¹⁾ not permitted if driver qTEK 00* - * with V-CG-S function is used

17.4 The luminaire shall only be cleaned with a damp cloth

17.5 The LED Module shall not be used in areas with electrostatically intense charging processes.

18 **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 **Drawings and Documents**

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA Testing and Certification GmbH
Bochum, 2019-11-28
BVS-Hk/Mu A 20190757



Managing Director