



(1) **EU-Type Examination Certificate**

- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 2014/34/EU**
- (3) Certificate number: **SEV 24 ATEX 0708 X**
- (4) Product: Explosion-protected Lighting Fixture, Type: VLL*****
- (5) Manufacturer: Cooper Crouse-Hinds S.A.
- (6) Address: Avinguda de Santa Eulàlia 290, 08223 Terrassa, Barcelona, Spain
- (7) The equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) Eurofins, notified body No. 1258, 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 confidential report no 21CH-01442OR03.X41
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:

EN IEC 60079-0:2018
EN 60079-1:2014
EN 60079-7:2015
EN IEC 60079-7:2015/A1:2018
EN 60079-11:2012
EN 60079-18:2015
EN 60079-18:2015/A1:2017
EN 60079-31:2014

Except in respect of those requirements listed at item 18 of the schedule.

- (10) If the sign «X» is placed after the certificate number, it indicates that the product is subjected to special conditions for safe use specified in the schedule to this certificate. The sign “U” is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- (11) This EU type examination certificate relates only to design and construction of the specified product. Further requirements of this directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:



See Appendix: Marking

Eurofins Electric & Electronic Product Testing AG
Notified Body ATEX

Munira Gamma
Product Certification

M. Gamma



(13)

Appendix

(14)

EU-Type Examination Certificate no. SEV 24 ATEX 0708 X

(15) **Description of product**

VLL series of luminaires are designed mainly as per Ex eb and Ex tb concepts, it is suitable for use in hazardous location classified as Zone 1, Zone 2, Zone 21, Zone 22. The Ex marking for the final product may change due to the different components installed inside.

The luminaire consists of main body housing assembly and plastic cover assembly and buckles to fix together.

There are certified drivers, certified LED modules, reflector, certified terminal blocks and certified safety switches mounted inside.

There are two sizes of the luminaire, small size for 3L type and another size is for 5L & 7L type.

The LED module is fixed to reflector, 3L type has one LED module, and 5L & 7L type have two LED modules.

There will have two certified terminal blocks for through wiring.

Ex d Safety switch is optional, there could be none, one or two safety switches options.

For emergency type, one inverter and battery and terminal will be added.

There are two or four entries of each luminaire. All entries shall be sealed with certified glands or plugs or breather to maintain the degree of protection.

Marking:

Normal version with safety switch:

Ex II 2 G Ex db eb mb IIC T6...T5 Gb
II 2 D Ex tb IIIC T80°C Db

Normal version without safety switch:

Ex II 2 G Ex eb mb IIC T6...T5 Gb
II 2 D Ex tb IIIC T80°C Db

Emergency version with safety switch:

Ex II 2 G Ex db eb ib mb IIC T6...T5 Gb
II 2 D Ex tb IIIC T80°C Db

Emergency version without safety switch:

Ex II 2 G Ex eb ib mb IIC T6...T5 Gb
II 2 D Ex tb IIIC T80°C Db

Rating:

100~240 V AC 50/60 Hz; 108~250 V DC
(with Driver IECEx NEP 19.0001U)

100~277 V AC 50/60 Hz; 125~300 V DC
(with Driver IECEx TPS 21.0024U or Driver IECEx TPS 21.0023U AND without safety switch)

100~250 V AC 50/60 Hz; 125~250 V DC
(with Driver IECEx TPS 21.0024U or Driver IECEx TPS 21.0023U AND with safety switch)

Classification of installation and use:

fixed

Ingress protection:

IP66

Rated ambient temperature range (°C):

-40 °C ~+40 °C / 55 °C for Normal version
-25 °C ~+40 °C / 50 °C for EM version

Catalog No.	System Power	Driver			LED module	Safety switch	LED Qty	Gas		Dust (°C)		
								-40°C~40°C	-40°C~55°C	55°C		
VLL-U-3L-**-***-*	25W	MU025HyAQ_MB/z (IECEx TPS 21.0023U)			IECEx NEP 21.0014U	IECEx CQM 16.0018U	40	T6	T5	80		
		Input	Output	100% of rated output load								
		100-277Vac 50/60Hz, 125-300Vdc	700mA 18-48Vdc	▲T=2.2								
VLL-U-5L-**-***-*	48W	MU060HyAQ_MB/z (IECEx TPS 21.0024U)					IECEx NEP 21.0014U	IECEx CQM 16.0018U	80	T6	T5	80
		Input	Output	80% of rated output load								
		100-277Vac 50/60Hz, 125-300Vdc	24-86Vdc	▲T=11.16								
VLL-U-7L-**-***-*	58W	MU060HyAQ_MB/z (IECEx TPS 21.0024U)			IECEx NEP 21.0014U	IECEx CQM 16.0018U			104	T6	T5	80
		Input	Output	90% of rated output load								
		100-277Vac 50/60Hz, 125-300Vdc	24-86Vdc	▲T=8.72								

- (16) Report number

21CH-01442OR03.X41
- (17) “Special conditions for safe use” / “Schedule of limitations”

1. Do not open when a dust explosive atmosphere is present (models with safety switch);
Do not open when energized. Do not open when a dust explosive atmosphere is present (models without safety switch).

2. Potential electrostatic charging hazard see instructions.

3. Do not transport the battery package through a hazardous area unless the live parts are protected to at least IP30.

4. Replacement of the battery can be done only by the manufacturer staff or the persons on behalf of the manufacturer

5. Proper separately certified cable glands or plugs or breather complying with EN IEC 60079-0, EN 60079-7, EN 60079-31, should be applied during the installation.
- (18) Essential health and safety requirements

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause

Subject

None
- (19) Drawings and Documents

See test report “Manufacturer’s Documents”

