

# CERTIFICATE

Issued to:  
Applicant:  
**Cooper Univel S.A.**  
88 Thessaloniki Street  
601 00 Katerini, Greece

Licensee:  
**COOPER CSA S.R.L.**  
Via San Bovio 3 - Edificio Y  
20090 Segrate (MI), Italy

Product : Battery supplied electronic ballast for emergency lighting  
Trade name(s) : EATON LUMINOX  
Type(s)/model(s) : HVLD-4AA-L, HVLD-5CS-L, LVLD-3CS-L, LVLD-4AA-L, MVLD-4AA-L and MVLD-4CS-L

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:

- a type test according to the standard EN 61347-1:2008, EN 61347-1:2008/A1:2011, EN 61347-1:2008/A2:2013 and EN 61347-2-7:2012
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 3504272

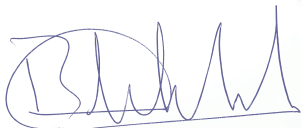
DEKRA hereby grants the right to use the ENEC certification mark.

The ENEC certification mark may be applied to the product as specified in this certificate for the duration of the ENEC certification agreement and under the conditions of the ENEC certification agreement.

This certificate is issued on 12 September 2019 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 71-109951

DEKRA Certification B.V.



B.T.M. Holtus  
Managing Director



C. Nitschke  
Certification Manager

© Integral publication of this certificate is allowed

ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



**SPECIFICATION OF THE CERTIFIED PRODUCT****Product data**

Product	: Battery supplied electronic ballast for emergency lighting
Trade name(s)	: EATON LUMINOX
Type(s)/model(s)	: HVLD-4AA-L, HVLD-5CS-L, LVLD-3CS-L, LVLD-4AA-L, MVLD-4AA-L and MVLD-4CS-L
Rated input voltage/nature of supply	: 230 Vac
Rated frequency	: 50/60 Hz
Power factor	: pf: 0,50C
Ambient temperature range (ta)	: 5...40 °C
Max. case temperature (tc)	: tc: 60 °C
Rated duration	: 3h
Description	: built-in LED drivers

**Product data – type HVLD-4AA-L**

Rated input current	: 20 mA
Output voltage range	: 40 - 175 V
Open circuit voltage max	: 200 V
Output current range	: 16 - 2,5 mA
Battery	: Ni-Cd 4,8V - 0,8 Ah
Description	: Basic isolated output

**Product data – type HVLD-5CS-L**

Rated input current	: 30 mA
Output voltage range	: 40 - 180 V
Open circuit voltage max	: 200 V
Output current range	: 43 - 9 mA
Battery	: Ni-Cd 6V - 1,7 Ah
Description	: Basic isolated output

**Product data – type LVLD-3CS-L**

Rated input current	: 30 mA
Output voltage range	: 3 -33 V
Open circuit voltage max	: 40 V
Output current range	: 270 - 35 mA
Battery	: Ni-Cd 3,6 V - 1,7 Ah
Description	: SELV output

**Product data – type LVLD-4AA-L**

Rated input current	: 20 mA
Output voltage range	: 3 -33 V
Open circuit voltage max	: 40 V
Output current range	: 120 - 20 mA
Battery	: Ni-Cd 4,8 V - 0,8 Ah
Description	: SELV output

**Product data – type MVLD-4AA-L**

Rated input current	: 20 mA
Output voltage range	: 20 - 55 V
Open circuit voltage max	: 60 V
Output current range	: 36 - 12 mA
Battery	: Ni-Cd 4,8 V - 0,8 Ah
Description	: SELV output

**Product data – type MVL4-4CS-L**

Rated input current	: 30 mA
Output voltage range	: 20 - 55 V
Open circuit voltage max	: 60 V
Output current range	: 76 - 24 mA
Battery	: Ni-Cd 4,8 V - 1,7 Ah
Description	: SELV output

**TESTS****Test requirements**

EN 61347-1:2008  
EN 61347-1:2008/A1:2011  
EN 61347-1:2008/A2:2013  
EN 61347-2-7:2012

**Test result**

The test results are laid down in DEKRA test file 223890800.

**Additional information**

The device is a battery supplied electronic ballast for emergency lighting.  
The insulation between the supply voltage and the battery circuit is reinforced.  
The insulation between the supply voltage and test device (TLU500) is reinforced.  
The functionality of the rest mode has been verified with the remote control (test device) TLU500.

Temperature declared thermally protection: 110 °C

The list of components is laid down at test report 2238908.56.

**Conclusion**

The examination proved that all requirements were met.

**Factory location**

SC Cooper Industries Romania SRL  
Zona Industrială Vest Str. III, Nr. 12  
310510 Arad, Romania