

CERTIFICATE

Issued to:
Applicant:
SIA VIZULO
Bukultu Str. 11
LV-1005 Riga, Latvia

Licensee:
SIA VIZULO
Bukultu Str. 11
LV-1005 Riga, Latvia

Product : Street lighting / Floodlight luminaire with LED light source
Trade name(s) : VIZULO
Type(s)/model(s) : Martin LED street luminaire

The product and any acceptable variation thereto as 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 EN IEC 60598-1:2021, EN IEC 60598-1:2021/A11:2022, EN 60598-2-3:2003, EN 60598-2-3:2003/A1:2011 and EN 60598-2-5:2015
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 2171759

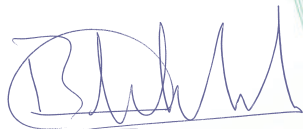
DEKRA hereby grants the right to use the ENEC certification mark.

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

This certificate is issued on 15 September 2023 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 71-129712

DEKRA Certification B.V.



B.T.M. Holtus
Managing Director



H.R.M. Barends
Certification Manager

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SPECIFICATION OF THE CERTIFIED PRODUCT**Product data**

Product	: Street lighting / Floodlight luminaire with LED light source
Trade name(s)	: VIZULO
Type(s)/model(s)	: MRSy series and MRUy series
Model	: Martin LED street luminaire
Rated voltage/nature of supply	: 198 - 264 Vac
Rated frequency	: 50/60 Hz
Rated current	: For MRSy series: 30 - 630 mA For MRUy series: 30 - 500 mA
Rated power	: For MRSy: max. 145 W, dependent of ambient temperature (ta) For MRUy: max. 115 W, dependent of ambient temperature (ta) with ta: -40...+35 °C 5-145 W (for models starting with MRS) 5-130 W (for models starting with MRSS) 5-115 W (for models starting with MRU) 5-95 W (for models starting with MRUS) with ta: -40...+40 °C 5-140 W (for models starting with MRS) 5-120 W (for models starting with MRSS) 5-105 W (for models starting with MRU) 5-85 W (for models starting with MRUS) with ta: -40...+50 °C 5-120 W (for models starting with MRS) 5-100 W (for models starting with MRSS) 5-96 W (for models starting with MRU) 5-75 W (for models starting with MRUS)
Ambient temperature range	: ta = -40... +35/40/50 °C
Classification	: class I
Degree of protection against dust, moisture and solid objects	: IP66
Degree of protection against external mechanical impact	: IK08 / IK09 / IK10 - dependent of configuration

TESTS**Test requirements**

EN IEC 60598-1:2021
EN IEC 60598-1:2021/A11:2022
EN 60598-2-3:2003
EN 60598-2-3:2003/A1:2011
EN 60598-2-5:2015

Test result

The test results are laid down in DEKRA test file 227431400.

Additional information

additional information related to the product name

"y" version (F; S; E; T)

F= Flood

S = Smooth (finless)

E = Eco

T = Tool-less

"y" can blank or one or several of all above options.

For more details about the product name, refers to the test report.

Retinal blue light hazard:

Blue light hazard has been tested according to the IEC/TR 62778:2014 and EN 62471:2009 – photobiological safety.

These products were evaluated according IEC/TR 62778:2014 blue light hazard and comply with non-GLS Risk Group 1 (no labelling is required) except configurations with Osram Oslon Square LEDs which comply with non-GLS Risk Group 2 (labelling is required).

The threshold distance from RG2 to RG1 with Oslon Square LEDs for MRUy series is 2,72 m and for the MRSy series is 3,17 m.

The tested samples represent the worst-case configurations, RG1 and RG0 is also possible – for more details refer to the IEC/TR 62778:2014 and EN 62471:2009 test reports of the specific luminaire configuration.

The luminaire contains a LED module which is in compliance with EN 62031:2020+A11:2021 (tested as part of the appliance).

The Luminaires also fulfil the requirements of EN 62262:2002 and IEC/TR 62696:2011 with regard to protection provided by enclosures for electrical equipment against external mechanical impacts. Luminaires also fulfil the requirements IK08 / IK09 or IK10 depends on models configuration.

This certificate replaces certificates No. 71-119800 and 71-118540 REV.1 which we hereby declare invalid.

The list of components is laid down in test report 2274314.50.

Conclusion

The examination proved that all requirements were met.

Factory location

SIA Vizulo
Laucu Lejas
LV-3913 Iecava, Latvia