

# CERTIFICATE

Issued to:  
Applicant:  
**SIA VIZULO**  
**Ganibu dambis 7a**  
**LV-1045 Riga**  
**Latvia**

Manufacturer/Licensee:  
**SIA VIZULO**  
**Ganibu dambis 7a**  
**LV-1045 Riga**  
**Latvia**

Product : Street luminaires with LED light source  
Trade name : VIZULO  
Model : MINI MARTIN  
Type reference key : MRS □□□ □□□ □□□ □□□ □□ □□ (See Appendix I for more details).

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 60598-1:2015, EN 60598-2-3:2003
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 2171759

DEKRA hereby grants the right to use the ENEC KEMA-KEUR certification mark.

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

This certificate is issued on: 14 June 2016 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2193409.03

DEKRA Certification B.V.



drs. G.J. Zoetbrood  
Managing Director



Danielle Trijbels  
Certification Manager

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ACCREDITED BY THE  
DUTCH ACCREDITATION  
COUNCIL



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

product	:	Street luminaires with LED light source
trade name	:	VIZULO
model	:	Mini Martin LED street luminaire
type reference key	:	MRS □□□ □□□ □□□ □□□□ □□ □□□ (See Appendix I for more details)
rated voltage	:	220-240 V
nature of supply	:	ac
rated frequency	:	50-60 Hz
rated current	:	40mA - 340mA
rated input power range	:	8 - 78 W
ambient temperature range (ta)	:	-30 ... +50 °C (for ROAL and Tridonic LED drivers only) -40 ... +50 °C (for all other LED drivers)
class	:	I
degree of protection against dust and moisture	:	IP66
degree of protection against external mechanical impact	:	IK08 for glass cover, IK09 for housing.
description	:	Street lighting luminaire for post or pole mounting

**Additional information**

- For explanation of the type reference product key code, see Appendix I.
- These products have been tested according the EN 62471:2008 - Photo-biological safety.  
8 W up to 78 W, up to 4000 K versions comply with non-GLS - Risk-group1 (no labeling required).  
8 W up to 78 W, 5000 K and higher versions comply with non-GLS – Risk Group 2 (warning label required). RG2 to RG1 threshold distance is 3.61m (based upon evaluation of whole luminaire according to IEC TR 62778).

**TESTS****Test requirements**Main test requirements:

EN 60598-1:2015

EN 60598-2-3:2003 + A1:2011

Additional test requirements:

EN 62031:2008 + A1:2013 + A2:2015

**Test results**

The test results are laid down in DEKRA test file 2193409.00.

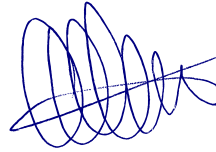
**Remark**

This certificate supersedes certificate no. 2187670.03, dated 13 January 2016 which is herewith declared invalid.

**Conclusion**

The examination proved that all test requirements were met.

Tested by : A.P. van der Veen

A handwritten signature in blue ink, consisting of several overlapping loops and a long horizontal stroke at the end.

Checked by : T.H.J.M. Michels

A handwritten signature in blue ink, written in a cursive style with the name "Michels" clearly legible.

**Factory location**

SIA VIZULO  
Ganibu dambis 7a  
LV-1045, Riga  
Latvia

**List of components**

Component	Trade name	Type/model	Approval mark
LED driver	Osram	OT 40/120...277/1A0 4DIMLT2 E	ENEC
LED driver	Osram	OT 60/170...240/1A0 4DIMLT2 E	ENEC
LED driver	Osram	OT 90/170...240/1A0 4DIMLT2 E	ENEC
LED driver	Osram	OT 165/170...240/1A0 4DIMLT2 E	ENEC
LED driver	Osram	OT 50/120...277/800 2DIMLT2 P	ENEC
LED driver	Osram	OT 100/120...277/800 2DIMLT2 P	ENEC
LED driver	Osram	OT 50/120...277/700 P5	ENEC
LED driver	Osram	OT 100/120...277/700 P5	ENEC
LED driver	Tridonic	LCA 30W 250–700mA one4all C PRE OTD	ENEC
LED driver	Tridonic	LCA 60W 350–1050mA one4all C PRE OTD	ENEC
LED driver	Tridonic	LCA 75W 250–750mA one4all C PRE OTD	ENEC
LED driver	Tridonic	LCA 120W 350–1050mA one4all C PRE OTD	ENEC
LED driver	Tridonic	LCA 30W 200–550mA 1–10 V C ADV OTD	ENEC
LED driver	Tridonic	LCA 60W 300–1050mA 1–10 V C ADV OTD	ENEC
LED driver	Tridonic	LCA 120W 300–1050mA 1–10 V C ADV OTD	ENEC
LED driver	Roal	RSOZ70, 70W 0.35-2.1A	ENEC
Surge protection device	Philips	929000886906, Xtreme Surge Protector I, Uc = 255 V, Uoc = 10 kV	KEMA-KEUR
LED module	Vizulo	VBSR-013-L-01 (8 LEDs, class I) VBSR-014-L-01 (8 LEDs, class I/II) VBSR-014-L-02 (36 LEDs, class I)	*
Cable	E.M.C. Colosio	H05RR-F - 3/5 x 0,75/1/1,5 mm <sup>2</sup>	<HAR>
Cable	LAPP cable	H05RR-F - 3/5 x 0,75/1/1,5 mm <sup>2</sup>	<HAR>
Cable	EUPEN	H05RR-F - 3/5 x 0,75/1/1,5 mm <sup>2</sup>	<HAR>
Cable	ICC	H05RR-F - 3/5 x 0,75/1/1,5 mm <sup>2</sup>	<HAR>
Cable	IRCE	H05RR-F - 3/5 x 0,75/1/1,5 mm <sup>2</sup>	<HAR>
Wiring	Alphawire	1855; 6715	*
Wiring	E.M.C. Colosio	H05V2-U, 0,75 mm <sup>2</sup> , 90°C, 300 V	<HAR>
Connector	Wago	2061 series, 320 V, 12 A	*
Terminal block	Stucchi	1673/A/43, 2 pole with PE	ENEC
Connector	Colosio	M140MN/3, 2 pole with PE, IP68	ENEC
Connector	Colosio	M140MN/6, 5 poles with PE, IP68	ENEC

Component	Trade name	Type/model	Approval mark
MCPCB	Polytronic Technology Corp	-	*
LED	Lumileds	Luxeon T; Luxeon TX	*/UL
LED	Cree	XT-E	*/UL
1) * indicates a component tested as part of the appliance			

**APPENDIX I - Type reference key code:**

