



03.02.2017

Manufacturer: Valtavallo Ltd
Address: Veistämötie 8
90620 Oulu
Finland
Brand name: Valtavallo
Product type: LED tubes
Product designation:

VV07E045G4-830 / 930	VV10E060G4-830 / 930	VV15E090G4-830 / 930	VV19E120G4-830 / 930
VV07C045G4-830 / 930	VV10C060G4-830 / 930	VV15C090G4-830 / 930	VV19C120G4-830 / 930
VV07E045G4-840 / 940	VV10E060G4-840 / 940	VV15E090G4-840 / 940	VV19E120G4-840 / 940
VV07C045G4-840 / 940	VV10C060G4-840 / 940	VV15C090G4-840 / 940	VV19C120G4-840 / 940
VV07E045G4-850 / 950	VV10E060G4-850 / 950	VV15E090G4-850 / 950	VV19E120G4-850 / 950
VV07C045G4-850 / 950	VV10C060G4-850 / 950	VV15C090G4-850 / 950	VV19C120G4-850 / 950
VV07E045G4-865 / 965	VV10E060G4-865 / 965	VV15E090G4-865 / 965	VV19E120G4-865 / 965
VV07C045G4-865 / 965	VV10C060G4-865 / 965	VV15C090G4-865 / 965	VV19C120G4-865 / 965

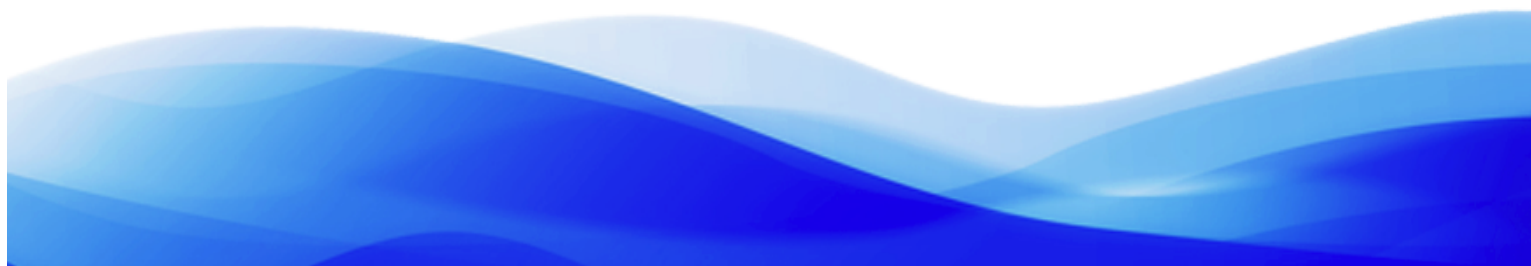
VV24E150G4-830 / 930	VV28E150G4-830 / 930
VV24C150G4-830 / 930	VV28C150G4-830 / 930
VV24E150G4-840 / 940	VV28E150G4-840 / 940
VV24C150G4-840 / 940	VV28C150G4-840 / 940
VV24E150G4-850 / 950	VV28E150G4-850 / 950
VV24C150G4-850 / 950	VV28C150G4-850 / 950
VV24E150G4-865 / 965	VV28E150G4-865 / 965
VV24C150G4-865 / 965	VV28C150G4-865 / 965

The designated products are in conformity with the provisions of the following European Directives and Commission Regulations.

Directive 2006/95/EC of the European Parliament and of the Council of 12 December 2006 on the harmonisation of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.

Directive 2004/108/EC of the European Parliament and of the Council of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.



03.02.2017

Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE).

Directive 2009/125/EC of the European Parliament and of the Council of 21 October 2009 establishing a framework for the setting of ecodesign requirements for energy-related products.

Commission Regulation (EU) No 1194/2012 of 12 December 2012 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for directional lamps, light emitting diode lamps and related equipment

Directive 2010/30/EU of the European Parliament and of the Council of 19 May 2010 on the indication by labelling and standard product information of the consumption of energy and other resources by energy-related products.

Commission Delegated Regulation (EU) No 874/2012 of 12 July 2012 supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of electrical lamps and luminaires.

The conformity of the designated products with the provisions of the European Directives and Commission Regulations are given by the compliance with the following European Standards:

EN 62776: Double-capped LED lamps for general lighting services - Safety specifications.

EN 60061: Lamp caps and holders together with gauges for the control of interchangeability and safety.

EN 62560: Self-ballasted LED-lamps for general lighting services by voltage > 50 V - Safety specifications.

EN 61347-1: Lamp controlgear - Part 1: General and safety requirements.

EN 61347-2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules.

EN 62471: Photobiological safety of lamps and lamp systems.

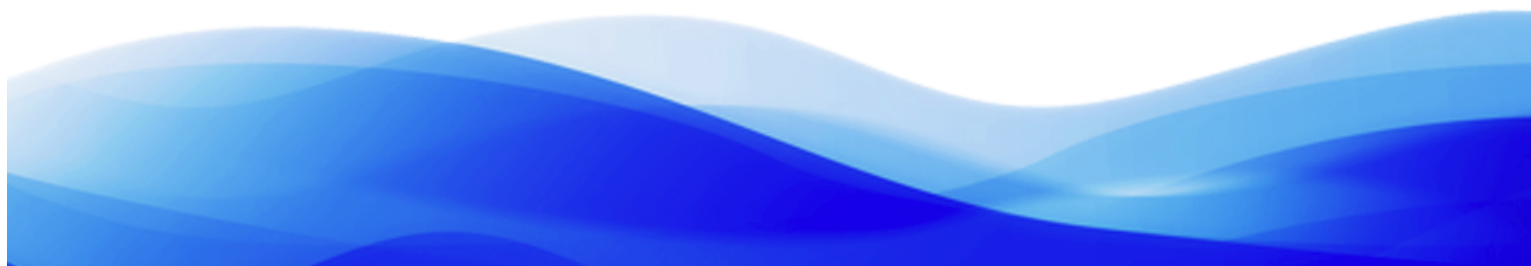
EN 62493: Assessment of Lighting Equipment related to Human Exposure to Electromagnetic Fields.

EN 55015: Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment.

EN 61547: Equipment for general lighting purposes — EMC immunity requirements.

EN 61000-3-2: Electromagnetic compatibility (EMC) — Part 3-2: Limits — Limits for harmonic current emissions (equipment input current ≤ 16 A per phase).

EN 61000-3-3: Electromagnetic compatibility (EMC) — Part 3-3: Limits — Limitation of voltage changes, voltage fluctuations and flicker in public low voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subjected to conditional connection.



03.02.2017

EN 61000-4-2: Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test.

EN 61000-4-4: Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test.

EN 61000-4-5: Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test.

Valtavallo Ltd.



Markku Laatikainen, CEO

