



## EC-Declaration of Conformity

I (2)

01.11.2016

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

VV08F045E3-830	VV15F090E3-850	VV08F045E3-930	VV15F090E3-950
VV08F045E3-840	VV15F090E3-865	VV08F045E3-940	VV15F090E3-965
VV08F045E3-850	VV20F120E3-830	VV08F045E3-950	VV20F120E3-930
VV08F045E3-865	VV20F120E3-840	VV08F045E3-965	VV20F120E3-940
VV10F060E3-830	VV20F120E3-850	VV10F060E3-930	VV20F120E3-950
VV10F060E3-840	VV20F120E3-865	VV10F060E3-940	VV20F120E3-965
VV10F060E3-850	VV25F150E3-830	VV10F060E3-950	VV25F150E3-930
VV10F060E3-865	VV25F150E3-840	VV10F060E3-965	VV25F150E3-940
VV15F090E3-830	VV25F150E3-850	VV15F090E3-930	VV25F150E3-950
VV15F090E3-840	VV25F150E3-865	VV15F090E3-940	VV25F150E3-965

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.

**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.



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**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  $\leq 16$  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  $\leq 16$  A per phase and not subjected to conditional connection.

**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

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Markku Laatikainen, CEO