



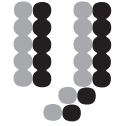
VALTAVALO® G5 LED TUBE

INDUSTRY-LEADING LUMINOUS EFFICACY COMBINED WITH MAXIMUM DURABILITY

Manufactured in Finland on a fully automated production line according to LED tube standard EN62776.

Replaceable LED light source with even greater luminosity

The tested durable body of G-series LED tubes combined with higher energy-efficient and heat tolerant electronics as well as more luminous LED modules make the new G5 LED tube the most luminous replaceable LED light source in the market. Unique electrical and mechanical design, high-quality components and automatic manufacturing provide exceptional lighting quality year after year, also in challenging conditions. A long service life and leading quality ensure significant savings in maintenance costs especially in hard-to-access areas. Valtavallo LED tubes are compatible with luminaires containing magnetic ballast and also suitable for direct mains operation.



valtavallo

WHY TO CHOOSE G5

COST-EFFICIENCY

- High luminous efficacy
- 125,000 hr lifetime
- Significant cost savings
- Maintenance-free

TOP QUALITY

- Extreme durability
- Made in Finland
- EN62776 compliant
- 7-year warranty

SUSTAINABILITY

- Replaceable light source
- Significant energy savings
- Lower carbon footprint

IMPROVED WELL-BEING AND INCREASED PRODUCTIVITY WITH FLICKER-FREE LIGHTING

The flickering of electric lights can lead to a misjudgement of hazardous situations and be dangerous in places where it is important to accurately see the moving parts of machines. In addition, it may have a negative effect on the wellbeing and health of people causing headaches and stress on the brain and making it more difficult to focus on work. Flicker may be visible, but, even if it was invisible to the human eye, it would not go unnoticed by the retina and brain. As a result, flicker-free light plays a significant role in improving wellbeing at work as well as in preventing occupational accidents particularly in industrial fields. The flicker percentage of a typical LED tube is 30%, whereas the Valtavallo G5 LED tube provides non-flickering, excellent quality light with a flicker percentage of less than 1%.



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MADE IN FINLAND



FIND THE RIGHT PRODUCT FOR YOUR PURPOSE

Valtavallo G5 LED tube

- High luminous efficacy
- Lifetime of 125,000 hrs
- Ideal for operating hours up to 24 hrs per day, closed fixtures, high ceilings

Valtavallo G5 High Temp

- Wide operating temperature range (up to +70°C)
- 5 year warranty also in high temperatures
- Especially for demanding conditions

Valtavallo G5 High Power

- Wide operating temperature range (up to +70°C)
- 5 year warranty also in high temperatures
- Especially for demanding conditions

Valtavallo G5 Dimmable

- Lifetime of 125,000 hrs
- When conventional lighting control is not enough
- When there is a need for several different lighting levels in the same space
- Several dimming options to choose from



INDUSTRY-LEADING QUALITY

Uniform premium quality and reliability are ensured by unique mechanical design, high-quality components as well as automatic manufacturing and comprehensive testing before releasing. Valtavallo is certified according to the quality management standard ISO 9001.



FLICKER-FREE LIGHT

Valtavallo G5 provides non-flickering, excellent quality light with a flicker percentage of less than 1%. At the same time, the flicker percentage of a typical LED tube is approx. 30%. Flicker-free light plays a significant role in improving wellbeing at work as well as in preventing occupational accidents particularly in industrial fields.



LIFESPAN OF 125,000 HOURS

Due to its technical supremacy and thermal design Valtavallo is able to offer the longest life expectancy on the market for its products - 125,000 hours to L₇₀B₅₀ / T_a 25°C. Valtavallo grants a 7-year warranty for G5 LED tubes.



OPERATION UNDER CHALLENGING ENVIRONMENTS

A wide operating temperature range -40 °C - +50 °C (G5 High Temp up to +70 °C) and high tolerance to vibration due to the unique mechanical design.



BRILLIANT ELECTRICAL PROPERTIES

Industry-leading interference, THD <20%, is especially important in bigger installations. Comprehensive protection against interference.



EASY TO INSTALL

Retrofit directly into most T8 fixtures. Rebuild and new installations with Valtavallo LED tube fixtures. Made according to international LED tube standard EN62776.



PURE LIGHT

A high colour consistency is ascertained with spectrometer for each individual tube. High quality light output of the G5 with a continuous full spectrum and high colour rendering.



OPTIMISED LIGHT DISTRIBUTION

Optimised downward forward flux (120°) for higher lux levels. Rotatable end-caps of the LED tubes help to direct the light 180°, exactly where it is needed.

MADE IN FINLAND



Manufactured in a fully automated production line in Valtavallo's own production plant in Finland.

HIGH EFFICIENCY



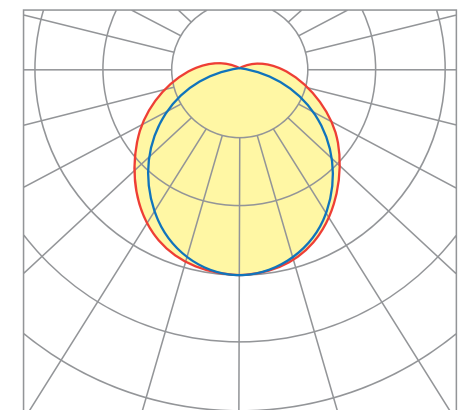
Highly efficient G5 LED tube provides market leading luminous efficacy.



ENVIRONMENT-FRIENDLY

Using recyclable and environment-friendly materials. Valtavallo's LED tubes do not contain toxins, and so are not classified as hazardous waste. Manufactured in Finland for the lowest possible carbon footprint. Valtavallo's operations are certified according to the environmental management system standard ISO 14001.

OPTIMISED LIGHT DISTRIBUTION



G5 150cm 4000K Semiopal



VALTAVALLO® G5 LED TUBE

INDUSTRY-LEADING LUMINOUS EFFICACY COMBINED WITH MAXIMUM DURABILITY

TECHNICAL SPECIFICATIONS FOR 5000K & 4000K

MODEL 5000K	Optics	Length	Power	Weight	Rated luminous flux
VV22E150G5-850	Semiopal	150 cm	22 W	445 g	3800 lm
VV18E120G5-850	Semiopal	120 cm	18 W	385 g	3100 lm

MODEL 4000K	Optics	Length	Power	Weight	Rated luminous flux
VV22E150G5-840	Semiopal	150 cm	22 W	445 g	3700 lm
VV18E120G5-840	Semiopal	120 cm	18 W	385 g	3000 lm

MODEL 5000K & 4000K	
Energy Efficiency Class (old rating)	C (A++)
Socket Type	T8 / G13
Input Voltage	230 V AC, 50/60 Hz
Power Factor	0.95
THD	<20%
Colour Rendering Index (CRI)	Ra > 80
Flickering Percentage	1%
Colour Consistency	MacAdam 3 SDCM
Beam Angle	120°. Rotatable end-caps of the LED tubes help to direct the light 180°, exactly where it is needed.
Average Lifespan L _{70B50} / T _a 25 °C	125,000 hours
Warranty	7 years
Operating Temperature	-40 °C – +50 °C (G5 High Temp LED tube up to +70 °C)
Operating Humidity	< 90 %
Protection Class	IP20
Housing Material	Anodised aluminium, PC-plastic (UL94-V0 fire resistance class of plastics), free of glue and silicone.
Markings	CE
Additional Info	Standard package contain 50 LED tubes. Available standard colour temperatures of 4000 K and 5000 K. Please contact Valtavallo or your local distributor for other colour temperatures.



Valtavallo Ltd is a Finnish company, specialising in ultra-long lifetime LED-lighting solutions with replaceable light sources. In-house R&D and manufacturing in Finland guarantees the best possible quality of the products. Lifetime value and exceptional quality provide leading cost of ownership lighting solutions for quality-conscious customers.



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