



# 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, meaning up to 4,000 lm and 180 lm/W. 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. Valtavalo LED tubes are compatible with luminaires containing magnetic ballast and also suitable for direct mains operation.



valtavalo

### WHY TO CHOOSE G5

#### COST-EFFICIENCY

- Lumin. efficacy up to 180 lm/W
- 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 Valtavalo 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**

- Luminous efficacy up to 180 lm/w
- 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 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



**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 L<sub>70</sub>B<sub>50</sub> / T<sub>a</sub> 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**



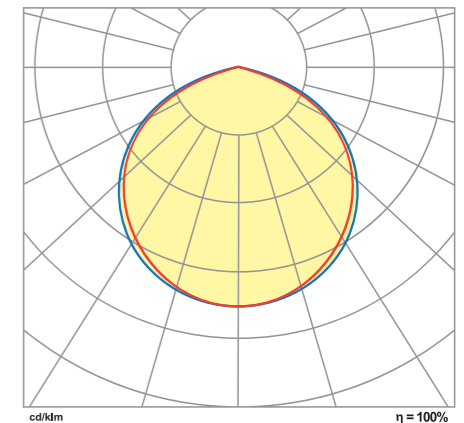
Highly efficient G5 LED tube provides market leading luminous efficacy - up to 4,000 lm and 180 lm/W.

**ENVIRONMENT-FRIENDLY**

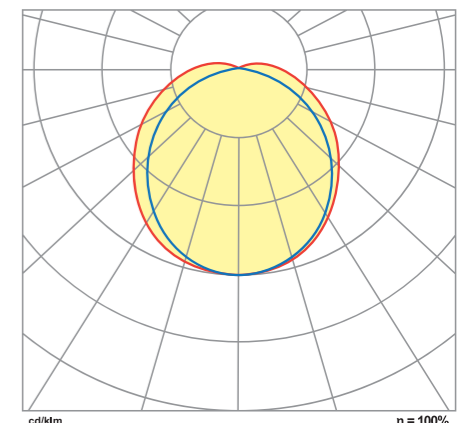


Using recyclable and environment-friendly materials. Valtavallo's LED tubes do not contain toxins, and so are not classified as hazardous waste. Manufactured in Finland for the lowest possible carbon footprint. Valtavallo's operations are certified according to the environmental management system standard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

**OPTIMISED LIGHT DISTRIBUTION**



G5 150cm 4000K Clear



G5 150cm 4000K Semiopal



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## TECHNICAL SPECIFICATIONS FOR 5000K & 4000K

MODEL   5000K	Optics	Lenght	Power	Weight	Rated luminous flux	MODEL   4000K	Optics	Lenght	Power	Weight	Rated luminous flux
VV22C150G5-850	Clear	150 cm	22 W	445 g	4,000 lm	VV22C150G5-840	Clear	150 cm	22 W	445 g	3,900 lm
VV22E150G5-850	Semiopal	150 cm	22 W	445 g	3,800 lm	VV22E150G5-840	Semiopal	150 cm	22 W	445 g	3,700 lm
VV18C120G5-850	Clear	120 cm	18 W	385 g	3,300 lm	VV18C120G5-840	Clear	120 cm	18 W	385 g	3,200 lm
VV18E120G5-850	Semiopal	120 cm	18 W	385 g	3,100 lm	VV18E120G5-840	Semiopal	120 cm	18 W	385 g	3,000 lm

MODEL   5000K & 4000K	
Energy Efficiency Class	A++
Socket Type	T8 / G13
Input Voltage	230 V AC, 50/60 Hz; 230 V DC
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 <sub>70</sub> B <sub>50</sub> / T <sub>a</sub> 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	<95 %
Protection Class	IP20
Housing Material	Anodised aluminium, PC-plastic (UL94-VO fire resistance class of plastics), free of glue and silicone.
Markings	CE
Additional Info	Standard packs 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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