



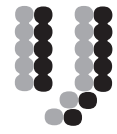
VALTAVALO® FULL SPECTRUM

BRING PURE NATURAL FLICKER-FREE LIGHT FROM OUTDOORS INSIDE

Valtavalo manufactures standardized replaceable light sources in its own factory in Finland

Bring pure natural flicker-free light from outdoors inside

Natural sunlight includes the whole spectrum, even beyond what we can see with the naked eye such as ultraviolet and infrared. Valtavalo full spectrum light sources are designed to mimic natural outdoor sunlight. The light covers the entire spectrum of light visible to the eye and much resembles the spectrum of sunlight. Full spectrum light sources produce light of high colour rendering (CRI 97-98,5), which enables accurate color appearance. Like natural sunlight, full spectrum light has a positive impact on our wellbeing – it can make us feel better, learn faster and become more productive. Also, non-flickering light has been found to play a significant role in improving well-being at work and to prevent occupational accidents, particularly in industrial fields.



valtavalo

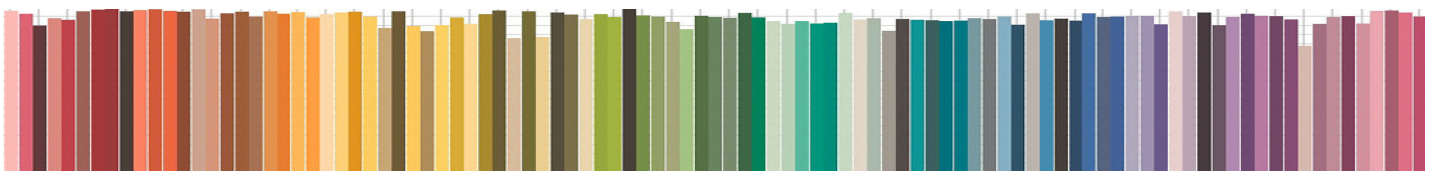
FULL SPECTRUM LIGHT

SOME TYPICAL APPLICATIONS

- Color production
- Textile industry
- Automotive industry
- Plastics industry
- Restoration
- Photography
- Graphic arts
- Museums
- Food presentation
- Medical care

FOR APPLICATIONS THAT REQUIRE EXTREME COLOR SEPARATION

With full spectrum light it is easy to see fine details and colors. As such, full spectrum light sources are indispensable for applications requiring accurate or consistent color appearance. For example, workers in artwork, photography and graphic arts all require full spectrum light sources so that inaccuracies in color perceptions do not hinder their work. The same feature is also needed in many industrial applications.



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MADE IN FINLAND



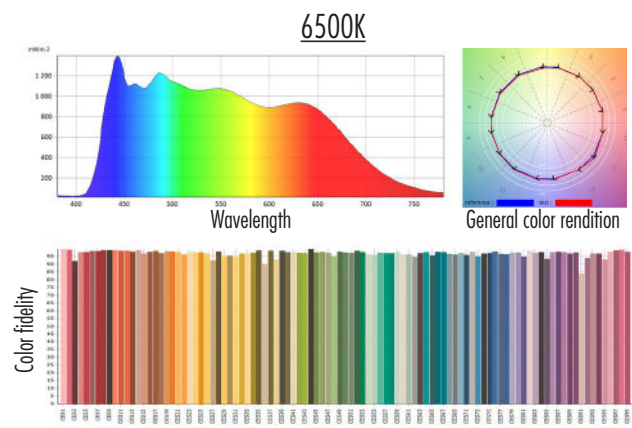
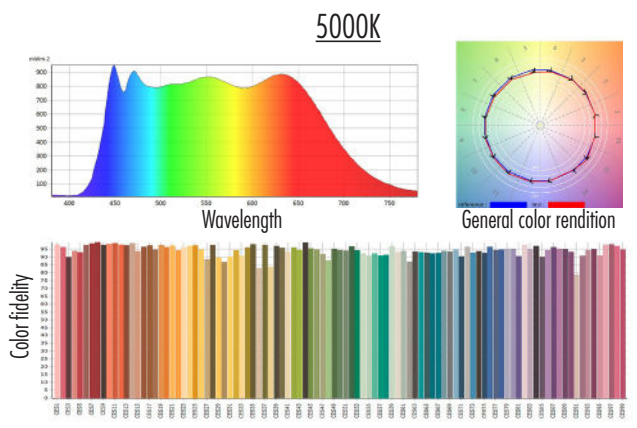
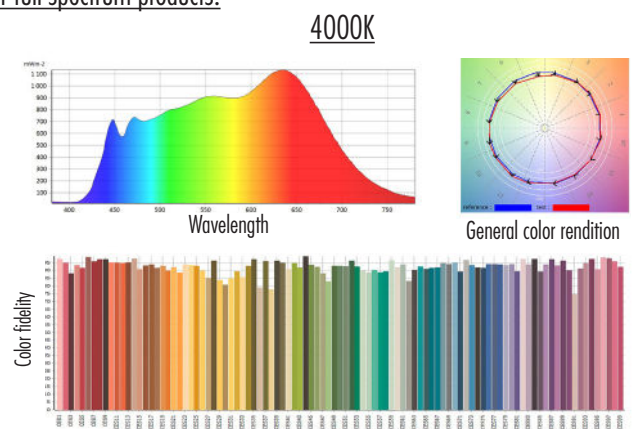
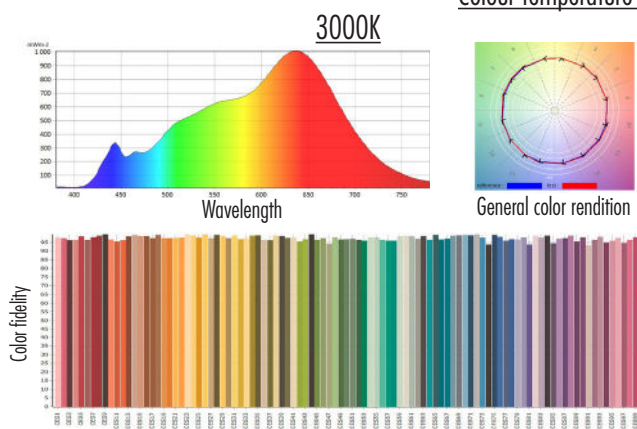
VALTAVALO® FULL SPECTRUM

TECHNICAL SPECIFICATIONS

MODEL	Length	Colour temperature	Power	Rated luminous flux	CRI /R9	Fidelity index / Gammut t index
VV35FS150G5-950	150	5000	36 W	3,550 lm	97,7 / 97,4	94 / 99
VV22FS150G5-950	150	5000	22 W	2,200 lm	97,7 / 97,4	94 / 99
VV18FS120G5-950	120	5000	18 W	1,800 lm	97,7 / 97,4	94 / 99

Energy Efficiency Class	E	Socket Type	T8 / G13
Input Voltage	230 V AC, 50/60 Hz	Power Factor	0.95
THD	< 20%	Weight	445 g (150 cm) / 385g (120 cm)
Colour Consistency	MacAdam 3 SDCM	Flicker percentage	1%
Flicker (Pst LM)*	PST 0,01	Stroboscopic effect (SVM)*	SVM 0,02
Beam Angle	120°	Operating Temperature	-40°C – +50°C
Operating Humidity	< 90 %	Protection Class	IP20
Average Lifespan L ₇₀ B ₅₀ / T ₀ 25 °C	60 000 hours	Warranty	5-year warranty
Material	Anodised aluminium, PC-plastic (UL94-VO fire resistance class of plastics), free of glue and silicone.		

Colour temperature options for full spectrum products.



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