



LED Grow Lights

# Product Brochure





# 10 Years of Excellence

*Since 2009 we have been committed to creating the best LED grow lights on the market so as to enable growers to increase yields, quality and energy savings.*

*With one of the largest patent portfolios of the horticulture lighting industry, we are the pioneers of the high quality LED grow light solutions.*



Plant trials  
conducted



Spectra tested



Countries sold to  
so far



Patents granted

*Hundreds of clients around the world rely on Valoya technology including 8 out of 10 world's largest agricultural companies.*

***As our customers, you will receive the support and care of our photobiologists, seed to sale.***

- The Valoya Team



# Choose a Spectrum for Your Needs

**Valoya LED spectra.**

Please contact [sales@valoya.com](mailto:sales@valoya.com) to inquire about customized spectra.

Typical values presented in the tables. There may be some variations between the spectra in different fixture models due to a disparity in the LED layout.



Optimized sunlight for commercial horticulture and research applications.

**All growth stages.**

A balanced range of wavelengths from UV to FR suitable for all growth stages. It has been tested on and is suitable for most plant species cultivated worldwide. Solray works as both sole source or supplemental light.

Table below expresses data for Solray® (upper row) / Solray385 (lower row).

UV	B	G	R	FR
1 %	24 %	34 %	38 %	3 %
2 %	19 %	36 %	40 %	3 %
PAR	CCT	CRI	B:G	R:FR
96 %	4600	95	0.7	13.0
95 %	4500	90	0.7	13.0



Sun-like, wide spectrum for research and biotech.

**All growth stages.**

The spectrum that illuminates the chambers and greenhouses of some of the world's largest universities, research institutes and agricultural companies.

Table below expresses data for NS1 (upper row) / NS12 (lower row).

UV	B	G	R	FR
1 %	22 %	36 %	37 %	4 %
1 %	20 %	36 %	38 %	6 %
PAR	CCT	CRI	B:G	R:FR
95%	4800	90	0.7	10.0
94 %	4500	90	0.6	5.0



Spectrum for vegetative and strong generative growth.

**Vegetative growth, flowering, tissue culture, propagation.**

Designed and proven to quickly boost plant biomass and induce flowering.

UV	B	G	R	FR
0 %	12 %	16 %	57 %	16 %
PAR	CCT	CRI	B:G	R:FR
84 %	2500	70	1.2	3.0



Spectrum for strong vegetative growth.

**Vegetative growth.**

Designed and proven to quickly boost plant biomass and produce plants saturated with flavor and nutrients. Ideal for the cultivation of leafy greens.

UV	B	G	R	FR
0 %	10 %	19 %	63 %	8 %
PAR	CCT	CRI	B:G	R:FR
92 %	2000	60	1.8	6.0



Spectrum for enhancing vernalization process, flowering and stem elongation.

**Vernalization, flowering, rooting.**

Designed to enhance vernalization process by reducing the time required for flowering induction. Greater plant survival, improved development by formation of strong rootball.

UV	B	G	R	FR
0 %	7 %	2 %	70 %	21 %
PAR	CCT	CRI	B:G	R:FR
80 %	NA	NA	26.0	3.0

# Choose a Form Factor for Your Needs

**Valoya LED luminaires.**

To see which spectrum is available in which product series, please see detailed tech sheets, pages 6-11 of this brochure.

**L-Series**



**Rooms and chambers, tissue culture and vertical farming.**

- Non-dimmable
- Slim, retro-fit
- IP65

**C-Series**



**Rooms and chambers, tissue culture and vertical farming.**

- Dimmable
- IP66

**BX-Series**



**Rooms and chambers, vertical farming, greenhouses, and HPS hybrid.**

- Dimmable
- IP67

**BL-Series**



**Greenhouses, rooms and chambers and HPS hybrid.**

- Non-dimmable
- Chainable
- IP66

**RX-Series**



**Greenhouses and HPS hybrid.**

- Dimmable
- High power
- IP55 / IP65

# RX-Series



The RX-series form factor resembles traditional HID lighting and offers an easy to install option for one-to-one replacement of HID lights. RX-series lights are thus ideal for a step by step investment in LEDs by replacing part of HID lights with more energy efficient Valoya wide spectrum LED lights. A highly durable fixture due to all aluminium build, high IP and passive cooling.

## ▪ Typical applications

High intensity lighting, HID replacement

## ▪ Light intensity in typical applications

100 ~ 1000  $\mu\text{mol}/\text{m}^2/\text{s}$

## ▪ Accessories

Standard hooks and mating part to the cable connector included. Optional hooks available to order.



Standard



Optional

	RX400	RX500	RX600
Spectra available	AP67, AP673L, NS1, Solray®	AP67, AP673L, NS1	Solray®, Solray385
Power consumption	395W	465W - 496W	564W - 650W
Power input	100-240, 277 VAC	RX500/600HV 200 - 480 VAC RX500/600HH 220 - 480 VAC	
	200 - 480 VAC (Solray® spectrum only)		
Weight	11 kg (24.3 lb)	11.6 kg (25.6 lb)	
Dimensions (L x W x H)	347 x 382 x 166 mm	347 x 400 x 176 mm	
	13.7" x 15" x 6.5"	13.7" x 15.7" x 6.9"	
Cable	0.3 m (11.8") mains input, 0.3 m (11.8") dimming cable		
Certifications / Approvals	CE marked, RoHS compliance Tested and certified to UL/CSA standards		
Dimming	0-10V, PWM, light output: off, 6-100%		
Distance from the plants (rec.)	0.5 - 4.0 m (20" - 13.1')		
Light intensity decay	Max 10% at 36 000 h. Typical usage 50 000 h.		
Light efficacy (380 - 820 nm)	Up to 2.6 µmol/W (spectrum dependent)		
Ambient operating temperature	-10 °C – +35 °C (14 °F – 95 °F)		
Water & impact protection	IP55: Dust-protected & protected against water jets	IP65: Dust-tight & protected against water jets	
Warranty	Up to 5 years limited warranty. More details at <a href="http://www.valoya.com/warranty">www.valoya.com/warranty</a>		

Typical values presented. Tolerances apply. For more detailed technical specifications please download the 'Installation Guide' from [valoya.com/brochures](http://valoya.com/brochures)