



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 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.



Rooms and chambers, tissue culture and vertical farming.

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



Rooms and chambers, tissue culture and vertical farming.

- Dimmable
- IP66



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

- Dimmable
- IP67



Greenhouses, rooms and chambers and HPS hybrid.

- Non-dimmable
- Chainable
- IP66



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 $\mu\text{mol}/\text{W}$ (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 www.valoya.com/warranty | | |

Typical values presented. Tolerances apply. For more detailed technical specifications please download the 'Installation Guide' from valoya.com/brochures