



# Research-Grade Lighting From Valoya



Valoya's customizable LL-CV LED platform is built for seamless integration into any cultivation setup. Its slim, lightweight, space-saving form boosts grow area efficiency, allows easy installation and low lifetime cost, while robust construction ensures long-term performance with minimal maintenance.



Version 2025

## Sreekara EnviroTech Pvt Ltd.

Sreekara EnviroTech Pvt. Ltd., established as a reseller in India specializes in the design and manufacturing of Walk-in Customized Plant Growth Chambers equipped with advanced Valoya LED lights. We collaborate closely with Valoya India.

Our chambers are tailored to meet the precise research needs of agricultural and scientific institutions. We are proud to serve several leading research and agricultural institutes across India, offering technology for plant growth and development studies.



**Industry leading uniformity**  
in any cultivation setup, single or multi-tier



**Dimmable**  
& compatible with all major control systems



**Extreme heat resistance:**  
Up to +70 / 158 (°C/°F) heat sink temp. with air-flow. Heat/drought stress studies ready.



**Customizable lengths:**  
600, 900, 1200 & 1500 mm (24", 35", 47" & 59")

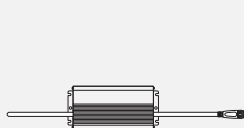


**Robust design**  
IP66 (waterproof) & Safety Certified (SELV)

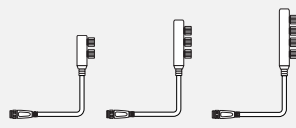


**Stable spectrum quality**  
Consistent spectrum over time

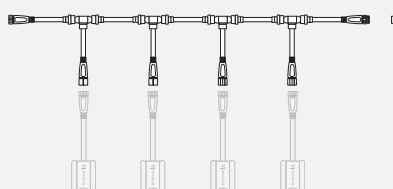
## LL-CV Modular Lighting



Range of LED drivers available.



Splitters for custom configuration.



Complete range of accessories, such as hangers, mounting kits and end-caps.

|  |  |
|--|--|
| Dimming: 0-10V, optional Dali  | Warranty: Up to 5 years limited ( <a href="http://valoya.com/warranty">valoya.com/warranty</a> ) |
| Cooling: Passive   | Maximum relative humidity: 90% (non-condensing)  |
| Light intensity decay (Lumi-CS): Q90 50 000 h  | Storage temperature (°C/°F): -20...+40 / -4...+104   |
| Light intensity decay (NS12): Q90 35 000 h   | Ambient operating temperature (°C/°F): 0...+40 / +32...+104                                      |
| Certifications: CE, RoHS, Low Voltage Directive, Eco-design (EuP). Detailed list of certifications at <a href="http://valoya.com/brochures">valoya.com/brochures</a> |  |



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## Minimize the risks as you transition from fluorescent to proven LED solutions from Valoya.

### Daylight Replicating Spectrum - NS12

*Trusted by Science. Built for Growth.*

Valoya's NS12 is an optimized daylight spectrum, offering a balanced range of wavelengths from UV-A to far-red. Since its introduction more than a decade ago, NS12 has remained unchanged in composition, while being continuously updated in efficiency and form factor – always in line with the latest technology.

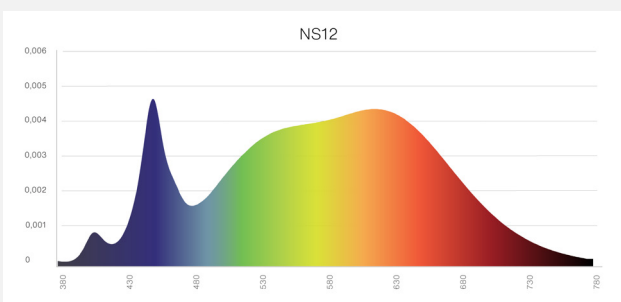
NS12 is a versatile spectrum designed to support the full growth cycle of a wide range of plant types, including model plants, field crops, vegetables, flowers, and trees. It's the ideal choice for:

- ✓ Every crop and growth stage
- ✓ Multi- and single-tier growth systems
- ✓ Growth chambers & controlled environments

Whether for low- or mid-light intensity (PPFD 40-400  $\mu\text{mol}/\text{m}^2/\text{s}$ ) applications, NS12 delivers consistent and proven results — confirmed by its use in 90+ peer-reviewed scientific publications worldwide, by leading universities and research institutions.

#### Key Benefits:

- ✓ Spectrum quality stays constant over time
- ✓ Grows an outdoor replicating phenotype
- ✓ Appears as natural, white light to humans



### Fluorescent Replacement Spectrum - Lumi-CS

*Natural Growth Under White Light*

Lumi-CS is Valoya's advanced white LED spectrum, built to replace traditional fluorescent (FL) lighting in growth chambers and plant rooms. It delivers full-spectrum light with far-red wavelengths for balanced growth across a wide range of crops.

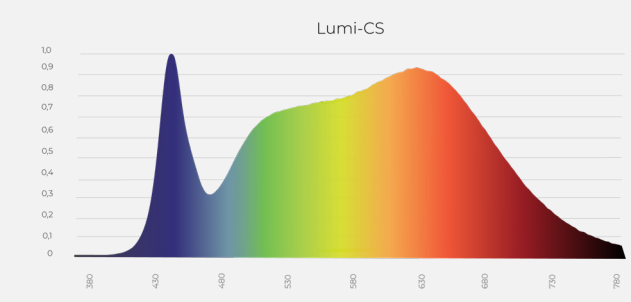
Lumi-CS is suitable for a wide range of applications, from tissue culture (in vitro) to complete growth cycles—including seed production.

Optimized for low- to mid-light levels (PPFD 40–400  $\mu\text{mol}/\text{m}^2/\text{s}$ ), Lumi-CS provides consistent output that mirrors FL840 quality. Its uniform, all-white LED layout ensures even coverage without monochromatic peaks.

Excellent visibility and color rendering make Lumi-CS ideal for plant inspection and visual assessments.

#### Key Benefits:

- ✓ Seamless transition from fluorescent to LED
- ✓ Suitable for a wide range of crops
- ✓ Ideal for 40–400  $\mu\text{mol}/\text{m}^2/\text{s}$  PPFD levels
- ✓ Mimics FL840 for consistent research results



Additional optimised spectra tailored to create speed breeding conditions with AP67, enhance vernalization using G2, boost biomass growth, and maximize efficiency in vertical farming environments by AP673L are also available.

## Research Driven LED Manufacturer:



**650+**  
Plant trials  
conducted



**50+**  
Countries  
sold to



Featured in  
**100+**  
academic articles



**100+**  
Patents  
granted



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