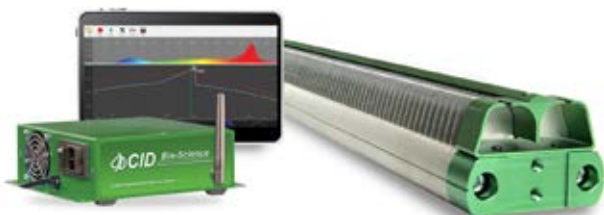


CI-800

■ Programmable LED Experimentation System

The CI-800 is a programmable LED plant growth lighting system. It replaces fluorescent lighting in rack-style fixtures typically used in plant growth rooms, and is used in retrofits of environmental growth chambers. Illumination is provided primarily by blue, red, and white LEDs at wavelengths matching Photosynthetically Active Radiation (PAR). The color ratios and intensity can be independently controlled with the supplied software. Lighting regimes for experimental or routine plant growth can be uploaded to the control unit via WiFi.



Product Features

- ▶ Uniform lighting coverage: 18 x 48 inches (46 cm x 122 cm) of growing surface at one foot (31 cm) above plant height
- ▶ Maximum PAR output of: 350 $\mu\text{mol} \cdot \text{m}^2 / \text{sec}$ 1 at one foot (31 cm)
- ▶ Fluorescent tube equivalence of: six T5 fluorescents or 14 T8 fluorescents for equivalent blue and superior red output
- ▶ Efficiency: uses 50% less power than T8 fluorescents
- ▶ 5-Watt LEDs rated at 50,000 hours lifetime with only a 15-18% drop in spectral intensity
- ▶ Long-life and elimination of hazardous waste disposal compared to fluorescents
- ▶ 60° beam angle
- ▶ Intuitive software for customized lighting schemes, including control of spectral output
- ▶ Solar radiation simulations for specific geographic coordinates and times of year

Operating voltage	90-264 VAC (auto-switching; 5A max/2.5A max)
Operating frequency	50 Hz to 60 Hz
Typical energy consumption	200 watts
Weight	7 lbs fixture/3 lbs controller (3.2 kg/1.4 kg)
Operating temperature	- 4 °F to 140 °F (- 20 °C to 60 °C)