Plant growth systems since 2001, with scientific (ESA-CHECS, CNR), industrial and home applications. Only the wavelengths that are relevant to the photosynthesis, thus no light that would be reflected by leaves is emitted. The final result is the vigorous growth of plants, at a fraction of the electrical consumption that is required by other technologies. Small heat emission and radiation.

False ceiling module

70W power, 24 LEDs in a **600mm x 600mm module**, suitable for false ceilings in offices and commercial spaces.
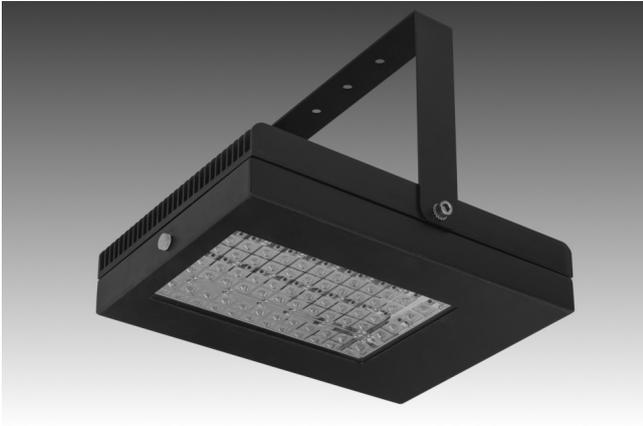**100-240Vac** power supply, Al-structure, no special requirements for heat dissipation. 25°lenses, **2.5m^2** surface coverage. Available in red-blue, red-white-blue and warm white for hybrid lighting, plant growth and room. Working temperature: -35~+65°C.

Optionally can be equipped with **wifi**, either as access point (hot spot) or LAN device.
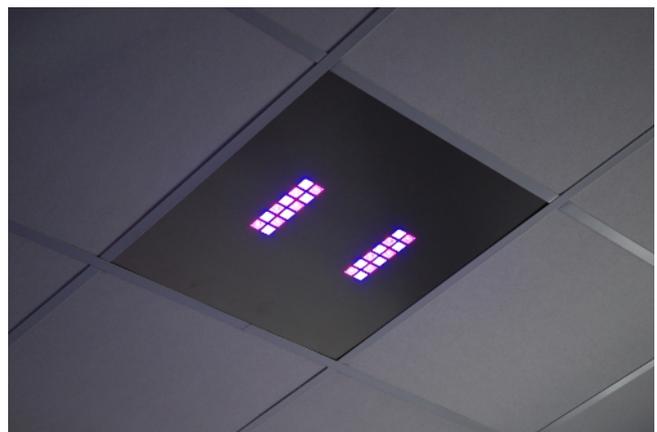
Industrial products

Four different devices with 36-60-72-96 LEDs and **80W ~240W** power, dimmable; IP66 protection. Suitable for industrial plants, high end cultures. Working temperature: -35~+65°C, natural convection cooling. As an option, it can be equipped with a radio interface, **wifi** or **LORA**, the latter being suitable for large size industrial plants.

Furniture and shelf products

Now at its 3rd generation, this product is conceived for being installed in high-end kitchens and furniture. It can be customised for each manufacturer. In the entry level model, the light period is 14 hours, with fixed sunrise and sunset. In the advanced one, days and nights are simulated, including moon cycle and phases; the user can choose time and location with the integrated hotspot. **20W**, **100**-**240Vac** power supply.

Acies designs and manufactures in Italy, in its factory in Leno (BS). Besides standard products, customisations are possible, as well as partnerships with industrial customers. Emission spectrum and aspects concerning integrations in industrial plants and laboratories, such as communication networks for Industry 4.0, either wired or wireless, need to be evaluated on a case by case basis.