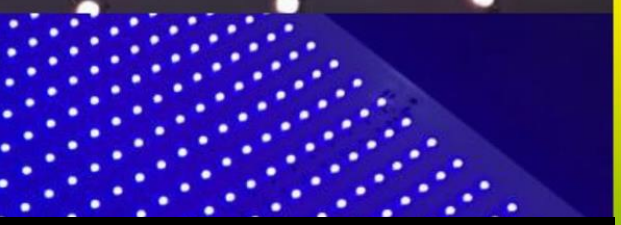

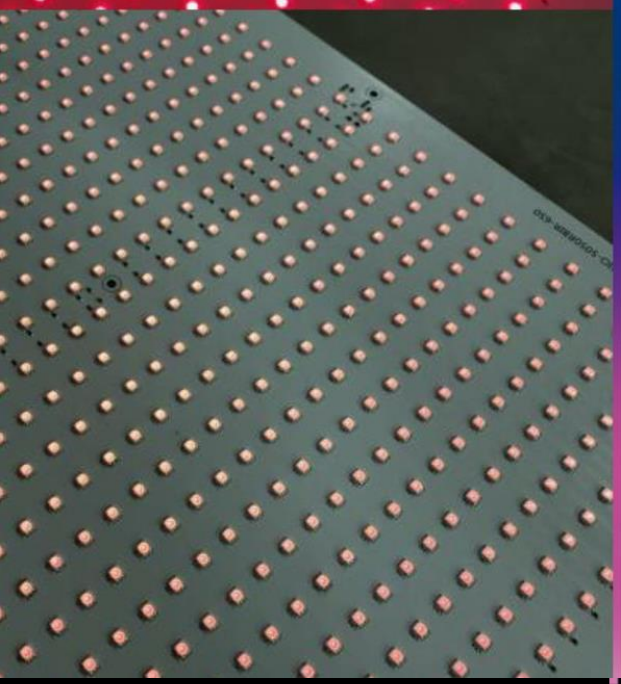

TESTINGLAB
EQUIPMENTS

SHELVES FOR GROWTH AND CROP

INTRODUCTION

The costs of a project can be greatly increased by including the specialized labor to carry out the project. Labor hours, travel, per diems and hotels are elements to be taken into account at the time of installation, but when the installations are simple, this cost can be saved.

Testing Lab Equipments, seeing the market need, has developed complete racks that are easy to assemble by the customer himself, with the aim of reducing installation costs. A simple, easy to install and controllable solution for in vitro or in vivo plant cultivation.

The standard format can be configured with any profile or existing light plates. However, we manufacture adaptable shelving whatever your needs are.

MAIN FEATURES OF OUR SHELVES WITH LIGHTS

DIMENSIONS

The standard dimensions of the shelves are :

- 800/100/1200/1400/1500 mm Length.
- 400/500/600/700 mm Depth
- 1700/1800/2000 mm Height.

However, other dimensional alternatives are available depending on the customer's needs.
Please contact our sales department for more detials.

ROBUSTNESS AND FINISHES

Manufactured with robust materials and prepared to withstand the most demanding temperature and humidity conditions.
The shelves can be finished in stainless steel, anodized aluminum or epoxy coated steel.

VERSATILITY

Height-adjustable shelves with a distance of 100 mm.
For taller plants, the individual shelves can be easily removed from the system.

TRAYS

Solid, perforated or grating shelves depending on the needs of the project and the type of application, as well as the need for air movement in the shelves. All manufactured to support heavy loads.
The number of shelves to be installed in the structure may vary according to the application.

LIGHTING

With LED illumination according to user's requirements. Normally White and Far Red. 16 shelves (8 per unit) controlled in parallel by a single light controller.
The number of LEDs to be installed will be defined according to project requirements.
The luminaires have been individually developed for plant lighting. For this purpose, we rely on various technologies and, in addition to state-of-the-art LED luminaires, we also offer lighting systems with high-efficiency ceramic-metal halide high-pressure discharge lamps and classic sodium vapor high-pressure discharge lamps.

OPTIONAL PROTOCOLS (Option)

The light controller allows full control of light intensity, modulation and synchronization.
Possibility of installing individual switches or a general switch for switching on and off the lighting.
Timer for programming day or night lighting in time according to need (photoperiod). Individual programming per shelf or global.
Safety thermostat for over-temperature control.
There is also the possibility of other optional protocols such as Dali remote control.

THE SHELF KIT INCLUDES

- Metal structure in stainless steel, anodized aluminum or epoxy coated.
- Dimensions: 1500 L x 500 P x 1750 H mm.
- Adjustable in height every 100 mm.
- 3 / 4 or 5 illuminated levels, adjustable height. Shelves reinforced with stainless steel sheets or PVC or epoxy coated sheet metal.
- Daylight luminaires – 4000 K (optional: 2700, 3000, 3800, 5000, 6000 and 7000 K).
- Full or partial illumination by level: optional from 40 to 500 µmol/m²/s (at 15 cm from the lights) – adjustable from 0% to 100%.
- Power supply by level with plug and 2m connection cable.

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