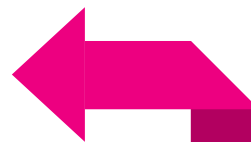


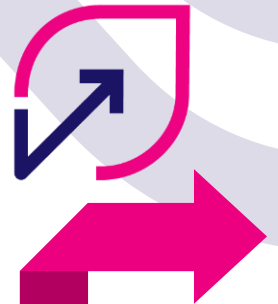
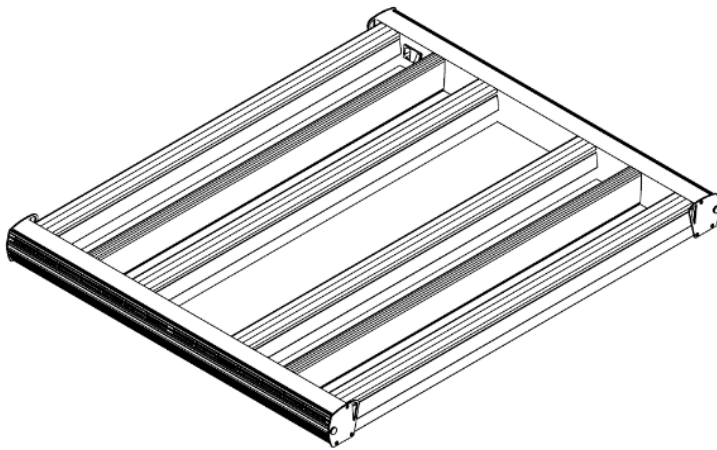


 Unleashing
plant's
potential™

FOTONICA™, EVA3™

For Indoor Cultivation





EVA3™

State of the art revolutionary LED light technology, designed to maximize the grower's profitability by increasing yield, improving quality and reducing costs. The EVA3™ solution is the best solution for controlled horticulture environments aiming for efficient, precise, and uniform levels of photosynthetic flux density (PPFD). The EVA3™ design is based on wholistic approach that combines deep understanding of plant biology combined with superior electronics, optics and client's feedback to enable a complete control over all lighting parameters. The EVA3™ design tackles all possible malfunctions in engineering and design aspects and correct them to perfection.

The system is composed of two major components:

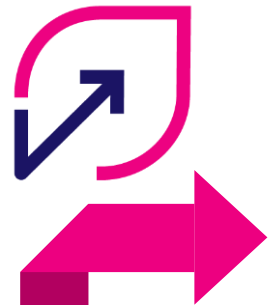
Hardware

- **Design** - State of the art design that does not interfere with air flow (bars), heat discharge with active cooling system (occupied with convertible filters to avoid terpenes clogging). The design is made of smooth surfaces easy to clean and easy to operate in case of malfunction and needed replacement. System is occupied with sensors monitoring its function and alert in case of a needed maintenance.
- **Light** - dynamic LED (DLED™) light system (11 bands from UVA/UVB to Far Red/IR) offering a complete flexibility on all light parameters. Intensity - we deliver minimum 1,000 Mm from 1.5 height (all design was considering not to change anything in the existing room design, ventilation etc.). Distribution - we deliver high uniformity due to the fact we designed optics, meaning each Led is occupied with lens (<25% fade in narrow margin of the 4X4 feet table).
- **Cameras** - 2 multi spectral cameras for accurate and early detection who can operate by demand or in defined interval and alert on anomalies.
 - Plant pathogens infection - for better pesticides use
 - Nutrient deficiency - for better fertilizers use
 - Heat map for efficient irrigation

- **Connectivity** – each unit is occupied with wireless, Bluetooth connection, operating through the cloud enabling Community and Big Data.

Software

- **User Interface** – easy to operate software with control dashboard, data logger and alert system. The software is occupied with light recipes (growing protocols) set of commands to operate the light in the best way possible. These recipes can be changed interfered and created by the user as he like. Machine learning capabilities to improve light recipes and overall performance (Big Data).



| | Fotonica EVA3™ Lighting System | | | | | |
|--|---|-----------|-------------------------|---------------|----------------|-----------------|
| | Veg. Low | Veg. Full | Transition to Flowering | Flowering Low | Flowering Full | Flowering Extra |
| Watt Input | 340 | 490 | 630 | 690 | 850 | 1080 |
| Energy Efficacy | 1.8 $\mu\text{mol/watt}$ | | | | | |
| Total Light output | 1,400 $\mu\text{mol/sec.}$ | | | | | |
| System | 2,142.09 (BTU/hr.) | | | | | |
| Device weight | 20 Kg (44.09 lb.) | | | | | |
| Power supply weight | 7 kg (15.43 lb.) | | | | | |
| Cables | 1.5 m (59") main input | | | | | |
| Dimming | Via application PC/mobile platform and wireless communication | | | | | |
| Distance from Canopy (Rec.) | 1.2 m - 1.5 m (47.2'- 59') Possibly 0.6 m (23.6') for vertical (no lenses) | | | | | |
| Light intensity decay | About 10% at 36,000 hours, typical usage 60,000 - 80,000 hr. | | | | | |
| PPFD (4'x4') = PPFD (1.2 m X 1.2 m) from 1.5 m height (59") | 400 | 600 | 450 | 750 | 950 | 1100 |
| Light distribution angle | 30° | | | | | |
| Light distribution uniformity (overlapping tables) *graph below | Not more than 25% | | | | | |
| Plug Type | Open end (pigtail); different electrical sockets | | | | | |
| Ambient operating temperature | 0 - 35 °C (32 - 95 °F) | | | | | |
| Cooling | Active sealed fins & fans occupied with convertible filters (quick cleaning) | | | | | |
| Warranty | 3 years | | | | | |

Light distribution uniformity map (%):

