

PRODUCT CATALOGUE 2026

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AGBIOSUPPLY
FLUXEN EXCLUSIVE DISTRIBUTOR IN EU

WELCOME TO FLUXEN

INNOVATIVE LIGHT DEVELOPMENT

FLUXEN: Ingeniería de Flujo para el Control Biológico Predictivo

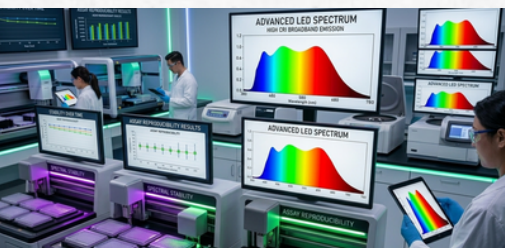
El nombre **FLUXEN** nace de la unión de dos conceptos esenciales en nuestra filosofía: FLUX (flujo fotónico) y EN (engineering). Somos, en esencia, Ingeniería de Flujo. En la horticultura moderna en ambiente controlado y la ciencia botánica, la luz ya no es un simple factor ambiental; es la variable crítica que determina la viabilidad económica, la homogeneidad y la rentabilidad de cada ciclo biológico. Desde nuestra fundación en 2020, nos hemos consolidado como fabricantes especializados de sistemas de iluminación LED de alta calidad para el mercado científico y comercial. No desarrollamos soluciones genéricas ni hardware rígido que limite el potencial de tus instalaciones; diseñamos herramientas de precisión optimizadas para entornos profesionales que exigen un control absoluto del espectro y una durabilidad extrema a largo plazo.

Flux-Engineering for Predictive Biological Control

*The name **FLUXEN** is born from the union of two essential concepts in our philosophy: FLUX (photonic flux) and EN (engineering). We are, in essence, Flux-Engineering. In modern controlled environment horticulture and plant science, light is no longer a simple environmental factor; it is the critical variable that determines the economic viability, homogeneity, and profitability of every biological cycle. Since our founding in 2020, FLUXEN has consolidated its position as a specialized manufacturer of high-quality LED lighting systems for the scientific and commercial markets. We do not develop generic solutions or rigid hardware that limits the potential of your facilities; we design precision tools optimized for professional environments that demand absolute spectrum control and extreme long-term durability.*



Adaptabilidad Espectral frente a los Problemas del Cultivo Moderno



Los mayores desafíos en el ambiente controlado actual son la falta de flexibilidad en los equipos comerciales y la dificultad para replicar con exactitud las condiciones lumínicas óptimas entre diferentes ensayos o ciclos productivos. Un espectro rígido limita la capacidad de reacción y frena el rendimiento fitoclimático.

La propuesta de FLUXEN resuelve este problema de raíz: modificamos las luminarias disponibles en nuestro catálogo para desarrollar espectros completamente a medida, adaptándonos con total precisión a los requerimientos, objetivos o variedades botánicas de cada cliente.

Garantizamos la máxima estabilidad del espectro y la repetibilidad de los resultados mediante el uso exclusivo de materiales de alta calidad y un respaldo sólido de 5 años de garantía, sumando además un servicio especializado de asesoramiento fotobiológico orientado a maximizar el rendimiento y la eficiencia de los cultivos.

Spectral Adaptability Against Modern Cultivation Challenges

The greatest challenges in current controlled environments are the lack of flexibility in commercial equipment and the difficulty of accurately replicating optimal lighting conditions between different trials or production cycles. A rigid spectrum limits responsiveness and slows down phytoclimatic performance. FLUXEN's proposal solves this problem at its root: we modify the fixtures available in our catalogue to develop fully customized spectrums, adapting with total precision to the requirements, objectives, or botanical varieties of each client. We guarantee maximum spectrum stability and repeatability of results through the exclusive use of high-quality materials and a solid 5-year warranty, combined with a specialized photobiological advisory service aimed at maximizing crop yield and efficiency.



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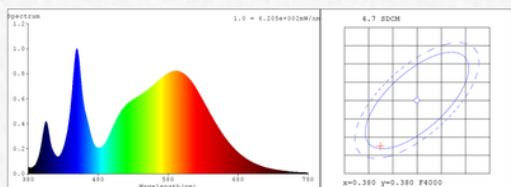
SPECTRUM GUIDE



Espectro 2B: Control estructural / Spectrum 2B: Structural Control

Este espectro está diseñado específicamente para las fases de propagación, mantenimiento de plantas madre y desarrollo vegetativo vigoroso de cultivos comerciales o proyectos de investigación. Al equilibrar de forma funcional las bandas cromáticas, emite la señal biológica exacta para imitar la luz de la primavera temprana, lo que elimina por completo la incertidumbre y el miedo al estiramiento de las plantas en ambientes controlados. Su ventaja comercial directa es que estandariza la morfología del cultivo, garantizando nudos internos muy juntos y tallos gruesos. Esto se traduce en un esqueleto vegetal robusto y altamente reproducible que acorta los tiempos de trasplante y prepara la estructura de la planta para soportar cargas pesadas de frutos en las fases posteriores sin necesidad de entutorados drásticos.

This spectrum is specifically designed for propagation stages, mother plant maintenance, and vigorous vegetative development in commercial crops or research projects. By functionally balancing chromatic bands, it emits the exact biological signal to mimic early spring light, completely eliminating uncertainty and the fear of plant stretching in controlled environments. Its direct commercial advantage is that it standardizes crop morphology, guaranteeing closely spaced nodes and thick stems. This translates into a robust and highly reproducible plant skeleton that shortens transplant times and prepares the plant structure to support heavy fruit loads in subsequent phases without the need for drastic staking.



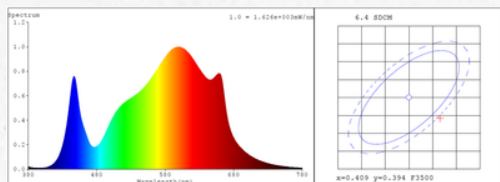
Cero estiramiento, plantas robustas en tiempo record.
Zero stretch, robust plants in record time.

Eficiencia / Efficacy: 2.13 $\mu\text{mol/s/W}$

Espectro BIOMAX: El multiplicador de biomasa

La solución definitiva para el productor enfocado puramente en la rentabilidad por metro cuadrado que trabaja ciclos completos o fases intensivas de engorde y floración. Al fusionar una base de luz blanca neutra con un potente refuerzo de Rojo Profundo a 660nm, este espectro logra una penetración lumínica agresiva que activa la fotosíntesis incluso en las zonas bajas del dosel vegetal. Es el estándar ideal para horticultura comercial de alta densidad (como hortalizas o frutos de alto valor) donde el peso seco determina el éxito del negocio. Al elegir esta configuración, el cliente elimina el desperdicio energético en colores que la planta ignora, mesmerizing una acumulación masiva de biomasa y la obtención de cosechas densas, pesadas y uniformes en toda la estructura de la planta.

The ultimate solution for the grower purely focused on profitability per square meter working full cycles or intensive bulking and flowering phases. By merging a neutral white light base with a powerful Deep Red boost at 660nm, this spectrum achieves aggressive light penetration that activates photosynthesis even in the lower zones of the plant canopy. It is the ideal standard for high-density commercial horticulture (such as vegetables or high-value fruits) where dry weight determines business success. By choosing this configuration, the client eliminates energy waste on colors that the plant ignores, ensuring a massive accumulation of biomass and obtaining dense, heavy, and uniform harvests throughout the entire structure of the plant.



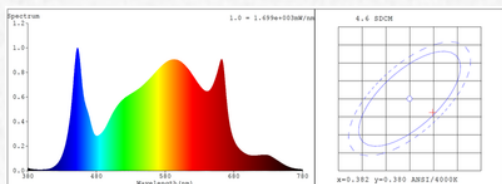
Más biomasa, máxima densidad por metro cuadrado.
More biomass, maximum density per square meter.

Eficiencia / Efficacy: 2.00 $\mu\text{mol/s/W}$

Espectro BIOMAX-FR: Aceleración y transición Fisiológica / Spectrum BIOMAX-FR: Acceleration and Physiological Transition

Diseñado estratégicamente para instalaciones comerciales multi-nivel e invernaderos industriales de alta productividad que operan bajo la premisa de que el tiempo es dinero. Este espectro integra Rojo Lejano (FR) para modular la relación de luz e interactuar directamente con los fitocromos de la planta, logrando "hackear" de forma segura su reloj biológico. El argumento comercial es directo: acelera drásticamente la transición de la fase vegetativa a la de floración, induciendo una maduración rápida y una apertura floral perfectamente sincronizada en toda la sala. Es el espectro que eligen los gerentes de operaciones que buscan ganar días al calendario, exprimir más rotaciones anuales y estandarizar la cosecha para que todo el espacio esté listo para el corte exactamente al mismo tiempo.

Strategically designed for commercial multi-tier facilities and high-productivity industrial greenhouses operating under the premise that time is money. This spectrum integrates Far-Red (FR) to modulate the light relationship and interact directly with plant phytochromes, safely managing to optimize its biological clock. The commercial argument is direct: it drastically accelerates the transition from the vegetative to the flowering phase, inducing rapid maturation and perfectly synchronized floral opening throughout the room. It is the spectrum chosen by operations managers looking to win days from the calendar, squeeze out more annual rotations, and standardize the harvest so that the entire space is ready for cutting at exactly the same time.



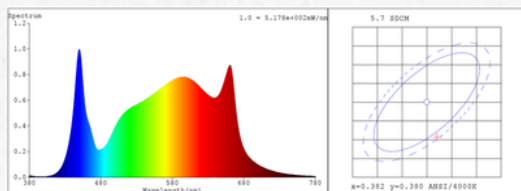
Floración acelerada y más rotaciones anuales ganando días al calendario. Accelerated flowering and more annual rotations by saving calendar days.

Eficiencia / Efficacy: 2.20 $\mu\text{mol/s/W}$

Espectro PAR DEEP: Eficiencia Pura / Spectrum PAR DEEP: Pure Efficiency

El estándar de oro para proyectos de gran envergadura donde el coste de la factura eléctrica define la viabilidad del negocio y para salas que requieren máxima precisión visual. Está optimizado exclusivamente para convertir la energía en fotones útiles dentro del rango fotosintético puro (400–700 nm), posicionándose como el rey indiscutible del ahorro energético de la marca. Su gran valor para el cliente radica en que baña el cultivo con una luz blanca real de máxima calidad que permite a los operarios realizar inspecciones fitosanitarias perfectas a simple vista. Esto resuelve el problema de detectar plagas, hongos o carencias nutricionales al instante sin necesidad de apagar equipos ni usar gafas correctoras, protegiendo la inversión antes de que afecte a la producción.

The gold standard for large-scale projects where the electricity bill cost defines the business viability, and for rooms requiring maximum visual precision. It is exclusively optimized to convert energy into useful photons within the pure photosynthetic range (400–700 nm), positioning itself as the brand's undisputed king of energy savings. Its great value for the client lies in bathing the crop with top-quality real white light that allows operators to perform perfect phytosanitary inspections with the naked eye. This resolves the problem of detecting pests, fungi, or nutritional deficiencies instantly without the need to turn off equipment or use corrective glasses, protecting the investment before it affects production.



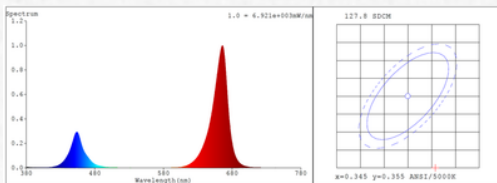
Ahorro energético y precisión visual contra plagas. Energy savings and visual precision against pests.

Eficiencia / Efficacy: 2.46 $\mu\text{mol/s/W}$

Espectro R&B: Motor Fotosintético / Spectrum R&B: Photosynthetic Engine

Esta configuración está pensada como un espectro de choque y ultra-especialización para fases de producción donde se busca forzar al máximo el motor fotosintético de la planta. Al combinar picos masivos de azul y rojo profundo, ya que elimina cualquier fotón "de relleno" o banda cromática secundaria, dirigiendo el cien por cien de la energía consumida hacia los canales de clorofila A y B. Es el aliado perfecto para producciones automatizadas en ambientes controlados que exigen una respuesta celular estandarizada y agresiva. Al implementarlo, el cultivador logra tasas de asimilación fotónica muy superiores a la luz solar convencional, acelerando el metabolismo vegetal al máximo para obtener respuestas de crecimiento rápidas en ventanas de tiempo reducidas.

This configuration is designed as a shock and ultra-specialization spectrum for production phases where the goal is to push the plant's photosynthetic engine to its limit. By combining massive peaks of blue and deep red, it eliminates any 'filler' photons or secondary chromatic bands, directing one hundred percent of the consumed energy toward chlorophyll A and B channels. It is the perfect ally for automated productions in controlled environments that demand a standardized and aggressive cellular response. By implementing it, the grower achieves photonic assimilation rates far superior to conventional sunlight, accelerating plant metabolism to the maximum to obtain fast growth responses in tight time windows.

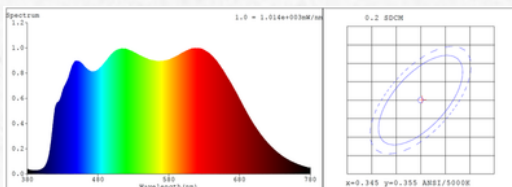


Complementa tu espectro solar en invernaderos para mejora de productividad / Supplement your greenhouse solar spectrum to boost productivity

Espectro SUNLIKE: Réplica Solar de Alta Fidelidad / Spectrum SUNLIKE: High-Fidelity Solar Replica

El estándar definitivo para centros de investigación, universidades y cultivos botánicos exóticos que requieren reproducir con precisión milimétrica las condiciones naturales del exterior dentro de un laboratorio. Ofrece una continuidad espectral perfecta que imita fielmente la luz del sol, asegurando que las plantas expresen su genética real sin las anomalías morfológicas que a veces causan las luces artificiales estrechas. Es la opción que debe elegir el cliente que necesita resultados científicos publicables o pruebas de laboratorio ultra-precisas, ya que permite evaluar de forma exacta cómo se comportará una variedad botánica en el campo abierto, manteniendo un control absoluto del entorno y garantizando una reproducibilidad científica total.

The definitive standard for research centers, universities, and exotic botanical crops that require reproducing natural outdoor conditions within a laboratory with high precision. It offers a perfect spectral continuity that faithfully mimics sunlight, ensuring that plants express their true genetics without the morphological anomalies that narrow artificial lights sometimes cause. It is the choice for clients needing publishable scientific results or ultra-precise laboratory tests, as it allows accurate evaluation of how a botanical variety will behave in the open field, maintaining absolute control of the environment and guaranteeing full scientific reproducibility.

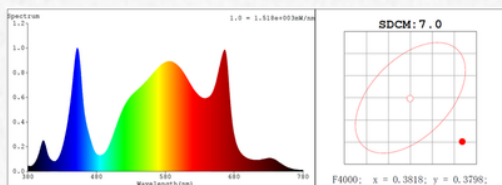


Estabilidad y reproducibilidad en un espectro. Scientific stability and reproducibility in one spectrum.

Espectro PBAR: Escudo de Protección y Estimulación Ampliada / Spectrum PBAR: Protection Shield and Extended Stimulation

Una solución avanzada para instalaciones de alta exigencia que buscan activar tanto la protección fitosanitaria de las plantas como la producción de compuestos secundarios y resinas. Este espectro amplía el rango fotosintético tradicional integrando radiación en los extremos del espectro, lo que actúa como un estímulo ambiental que imita las condiciones de alta montaña o exposición solar intensa. En ambientes controlados, se utiliza para inducir de forma natural los mecanismos de defensa de la planta, lo que robustece su sistema inmunológico contra patógenos externos y potencia la expresión de aromas, sabores y propiedades medicinales de cultivos de alto valor, asegurando un producto final con un estándar de calidad premium y diferenciado en el mercado.

An advanced solution for highly demanding facilities seeking to activate both the phytosanitary protection of plants and the production of secondary compounds and resins. This spectrum expands the traditional photosynthetic range by integrating radiation at the extremes of the spectrum, acting as an environmental stimulus that mimics high mountain conditions or intense solar exposure. In controlled environments, it is used to naturally induce the plant's defense mechanisms, strengthening its immune system against external pathogens and boosting the expression of aromas, flavors, and medicinal properties of high-value crops, ensuring a final product with a premium and differentiated market quality standard.

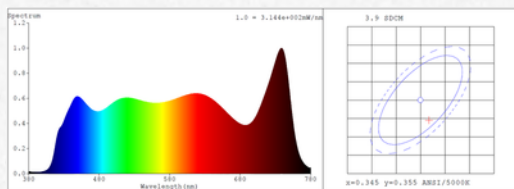


Incrementa tus metabolitos secundarios y compacta tu cultivo.
Boost secondary metabolite production and optimize crop compactness

Espectro APOLO: Control Fotobiológico Avanzado / Advanced Photobiological Control

Este desarrollo representa una herramienta de investigación de alta versatilidad que combina una base de luz blanca de excelente fidelidad con un aporte específico de rojo lejano a 730 nm. Su principal valor radica en la integración de dos canales de control independientes, lo que permite regular en tiempo real la proporción exacta de cada banda para adaptarse con precisión a las necesidades de cada variedad o ensayo. Al ofrecer una calidad lumínica muy similar a la luz solar natural, los operarios e investigadores pueden apreciar con total claridad los colores reales del cultivo, facilitando la realización de inspecciones visuales predictivas o correctivas antes de que se manifiesten síntomas de estrés o carencias en el tejido foliar.

This development represents a highly versatile research tool that combines a white light base of excellent fidelity with a targeted input of far-red at 730 nm. Its main value lies in the integration of two independent control channels, allowing real-time regulation of the exact ratio of each band to adapt with precision to the needs of each variety or trial. By offering a light quality very similar to natural sunlight, operators and researchers can clearly see the plants' true colors, facilitating predictive or corrective visual inspections before stress symptoms or deficiencies manifest in the foliar tissue.



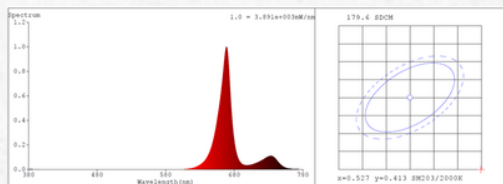
Iluminación dinámica, reproducible y equilibrada para tus ensayos / Dynamic, reproducible, and balanced lighting for your trials

Eficiencia / Efficacy: 1.19 $\mu\text{mol/s/W}$ (Modulable por canal / Modulable per channel)

Espectro EMERSON: Modulador del Ratio R:FR / R:FR Ratio Modulator

Este sistema rinde homenaje al histórico Efecto Emerson, el principio fotobiológico que demuestra cómo la acción conjunta y simultánea del Rojo Profundo (660 nm) y el Rojo Lejano (730 nm) potencia la tasa fotosintética de forma mucho más eficiente que ambas bandas incidiendo por separado. Diseñada a través de dos canales independientes totalmente modulables, esta luminaria se convierte en una potente herramienta científica que permite a los investigadores buscar y programar el ratio R:FR óptimo para cada variedad botánica. Su lógica de control actúa directamente sobre la activación y desactivación estratégica de los fitocromos, acelerando de forma predecible la etapa de floración y permitiendo experimentar con infinitas combinaciones biológicas sin necesidad de sustituir los equipos base de las instalaciones actuales.

This system pays tribute to the historic Emerson Effect, the photobiological principle proving that the joint and simultaneous action of Deep Red (660 nm) and Far-Red (730 nm) enhances the photosynthetic rate much more efficiently than both bands applied separately. Designed through two fully modulable independent channels, this fixture becomes a powerful scientific tool allowing researchers to search for and program the optimal R:FR ratio for each botanical variety. Its control logic directly influences the strategic activation and deactivation of phytochromes, predictably accelerating the flowering phase and enabling experimentation with endless biological combinations without replacing the base equipment of current facilities.



Mejora o complementa tu espectro para acelerar tu floración sin cambiar toda tu iluminación .Upgrade or supplement your spectrum to accelerate flowering without replacing your lighting system

Eficiencia / Efficacy: 2.65 a 3.28 $\mu\text{mol/s/W}$ (Según combinación / Depending on channel mix)

Serie CROP-X 1000 DYNAMIC (Multiespectro de 4 Canales Reales) / CROP-X 1000 DYNAMIC Series

La serie **CROP-X 1000 DYNAMIC** redefine la iluminación adaptativa al ofrecer un control absoluto sobre las bandas críticas del desarrollo vegetal. La gran ventaja de este espectro dinámico es que rompe con las limitaciones de las luminarias fijas: permite al usuario modular la luz basándose en objetivos biológicos concretos, combinando o aislando sus cuatro canales independientes de 0 a 100% para diseñar la receta perfecta según la variedad o el ensayo. Fisiológicamente, el potencial de este sistema se divide en cuatro herramientas de precisión:

- **Canal 1 (Base Fotosintética):** Combina luz blanca neutra a 4000K con Rojo Profundo a 660 nm, asegurando la máxima tasa de asimilación cuántica.
- **Canal 2 (Inyección Activa 405 nm):** Emite exclusivamente luz azul en la frontera del rango UV como estímulo de estrés regulado para la biosíntesis de resinas y flavonoides.
- **Canal 3 (Modulador de Fitocromos 730 nm):** Emite únicamente Rojo Lejano (FR) para interactuar de forma aislada con el reloj biológico y guiar la morfología vegetal.
- **Canal 4 (Espectro Completo):** Activa de forma simultánea todos los canales anteriores, logrando una emulación solar continua y enriquecida de máxima potencia.



The **CROP-X 1000 DYNAMIC** series redefines adaptive lighting by offering absolute control over the critical bands of plant development. The major advantage of this dynamic spectrum is that it breaks away from the limitations of fixed fixtures: it allows users to modulate light based on concrete biological goals, combining or isolating its four independent channels from 0 to 100% to design the perfect recipe for any variety or trial parameter. Physiologically, the system's potential is divided into four precision tools:

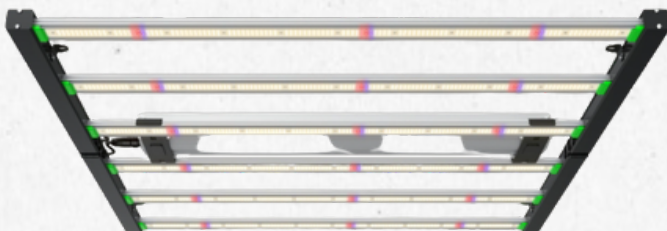
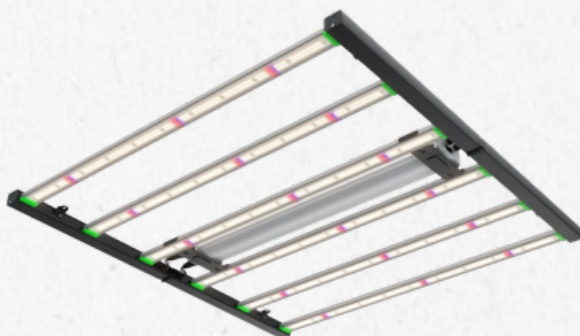
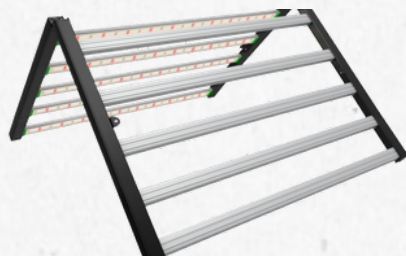
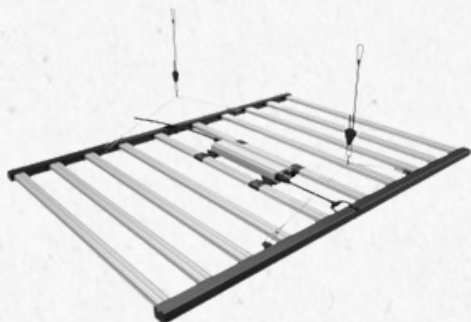
- **Channel 1** (Photosynthetic Base): Merges 4000K neutral white light with 660 nm Deep Red, ensuring maximum quantum assimilation rates.
- **Channel 2** (405 nm Active Injection): Emits exclusively blue light at the border of the UV range. It acts as a controlled stress stimulus to trigger the production of premium resins and flavonoids.
- **Channel 3** (730 nm Phytochrome Modulator): Emits solely Far-Red (FR) to interact in isolation with the plant's biological clock and guide morphology.
- **Channel 4** (Full Spectrum): Simultaneously activates all previous channels, achieving a continuous, enriched solar emulation at maximum power.

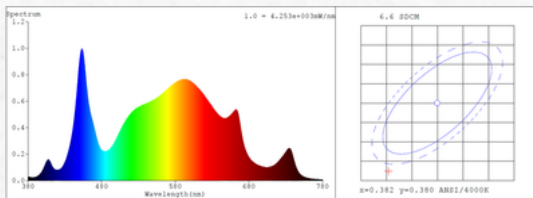
Aplicación óptima / Optimal application: Centros de investigación botánica, universidades y cultivos comerciales que busquen programar recetas lumínicas dinámicas y mapear la respuesta de la planta en tiempo real. / Botanical research centers, universities, and commercial facilities looking to program dynamic light recipes and map plant responses in real-time.

Eficiencia por combinación / Combination Efficacy: 2.20 a 2.77 $\mu\text{mol/J}$ |

PPF Máximo: 2767.4 $\mu\text{mol/s}$ | IP65 Waterproof

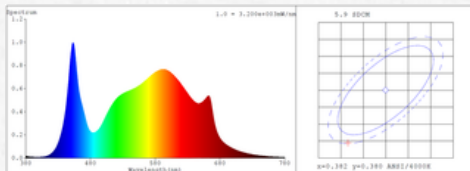
Serie CROP-X 1000 DYNAMIC 4



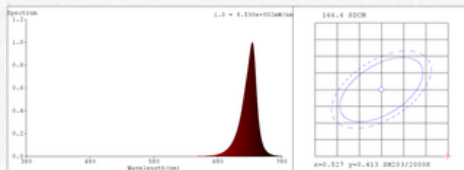
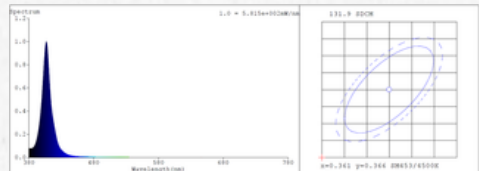


CHANNEL 4 (Full Spectrum)

CHANNEL 1 (4000K+660nm)



CHANNEL 2 (405nm)

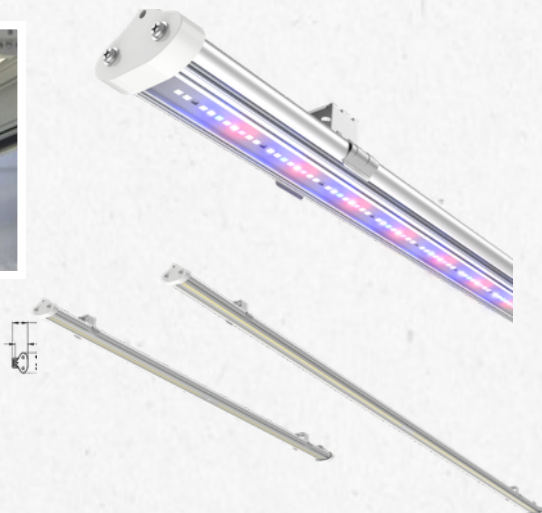
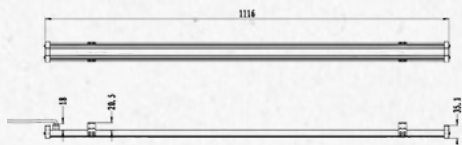


CHANNEL 3 (730nm)

Power consumption	CROP-X 1000 W
System efficacy (±10%)	2.3 µmol/J@230 V AC
PAR Output	2300 µmol/s
ePAR Output	2415 µmol/s
Voltage input	120-240 V AC, 120-277 V AC 50-60 Hz
Current Range	8,3 A@120 V, 3,61 A@277 V
Isolation Class	Class I
Heat BTU Generated	3412 BTUs/h
Power Factor	>0.95
Dimming	0-10 V
Dimensions	1187 x 1033 x 62mm (46.73" x 40.67" x2.44")
Net Weight	10.4 kg/20.8lbs
Qty/CTN	1 pc
G.W	13.3 kg /26.6lbs
CTN SIZE	1090 x 110 x 720mm 42.91"x 4.33"x28.35"
Operation conditions	0°C to 40°C/32°F to 104°F (95% RH)
Storage conditions	40°C to 70°C/32°F to 104°F (85% RH)
Warranty	5 Years

- * The tolerance for power is ±3%
- * The tolerance for weight is ±6%

IXION SERIES



- **Housing material:** Aluminum
- **Optics materials :** PC cover (transmission >90%)
- **Radiation angle:** 120°
- **Ingress Protection:** IP65 (dust and watertight)

- Full White Spectrum could be flexible to make 3500K, 4000K, 6500K
- Daisy Chain solution, plug-play
- External LED driver compatible
- Different Length options such as 60 cm, 90 cm, 120, 250 cm

COMPLIANCE:

CE certification
Low Voltage Directive (LVD)
Electromagnetic Compatibility Directive (EMC)
Restriction of Hazardous Substances (RoHS)
Directive

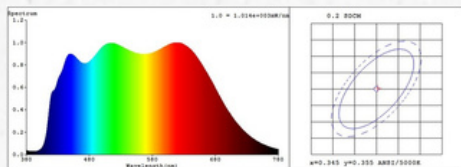
* typical values for stable operation at 25°C / 77 °F
ambient temperature

IXION SERIES

AVAILABLE SPECTRUMS

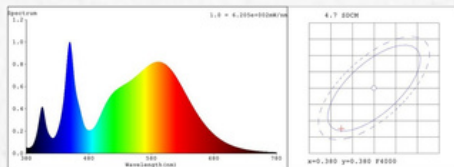
Sunlike

For all stages with low PPFD target



Spectrum 2B

For vegetative stage



Power consumption	65 W	90 W	120 W
Sunlike System efficacy (±10%)	1.55 µmol/J @230 V AC /	1.55 µmol/J @230 V AC	1.55 µmol/J @230 V AC
PAR out	101 µmol/s	139,5 µmol/s	186 µmol/s
2B System efficacy (±10%)	2.3 µmol/J @230 V AC	2.3 µmol/J @230 V AC	2.3 µmol/J @230 V AC
PAR out	149,5 µmol/s	207 µmol/s	276 µmol/s
Voltage input	48 V DC	43 V DC	56 V DC
Current Range	0.88 A@45 V DC	1.44A A@52 V DC	1.8 A@50 V DC
Isolation Class	Class III	Class III	Class III
Heat BTU Generated	136 BTUs/h	222 BTUs/h	307 BTUs/h
Power Factor	NA	NA	NA
Dimming	0-10 V optional	0-10 V optional	0-10 V optional

Dimensions	1116 x 55.8 x35.1 mm / (Standard)
Net Weight	0.8 kg/1.8 lbs
Operation conditions	0°C to 40°C/32°F to 104°F (95% RH)
Storage conditions	-40°C to 70°C/-40°F to 158°F (85% RH)
Warranty	5 Years



High ceiling mounting Bracket x 2 pcs



Low ceiling mounting Bracket x 2 pcs

OR

Standard:

High ceiling mounting
Bracket x 2 pcs

Optional:

Low ceiling mounting
Bracket x 2 pcs



External Driver



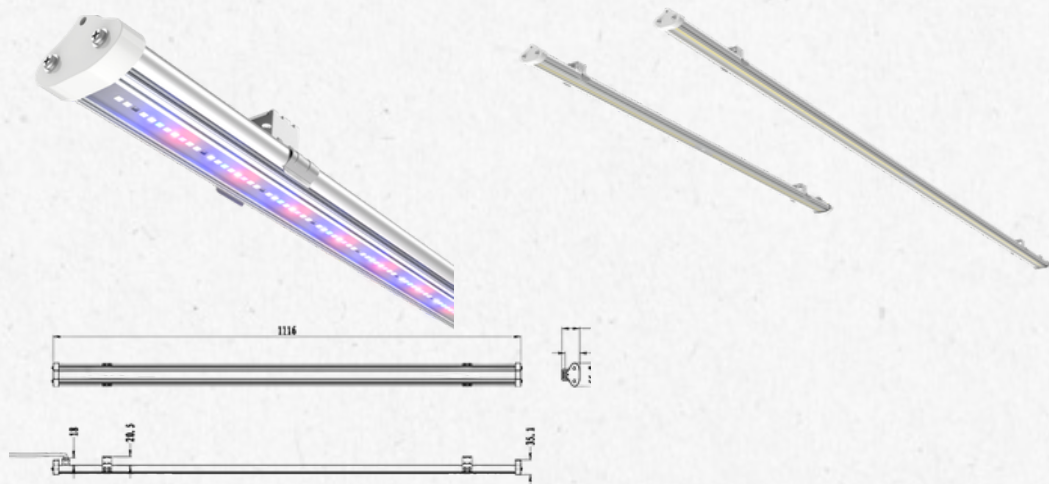
Splitter Cable

Accessories

* The tolerance for power is ±5%

* The tolerance for weight is ±6%

IXION EMERSON



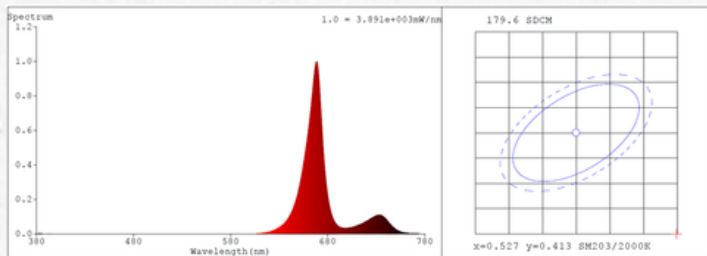
- **Housing material:** Aluminum
- **Optics materials :** PC cover (transmission >90%)
- **Radiation angle:** 120°
- **Ingress Protection:** IP65 (dust and watertight)

COMPLIANCE:

CE certification
Low Voltage Directive (LVD)
Electromagnetic Compatibility Directive (EMC)
Restriction of Hazardous Substances (RoHS)
Directive

* typical values for stable operation at 25°C /77 °F
ambient temperature

IXION EMERSON



Power consumption	65 W	90 W	Dimensions	1116 x 55.8 x 35.1 mm / (Standard)
Emerson system efficacy (±10%) only red 660nm	3.3 µmol/J @230 V AC /	3.3 µmol/J @230 V AC	Net Weight	0.8 kg/1.8 lbs
PAR out	214,5 µmol/s	297 µmol/s	Operation conditions	0°C to 40°C/32°F to 104°F (95% RH)
Emerson system efficacy (±10%) RED+FAR RED	2.6 µmol/J @230 V AC	2.6 µmol/J @230 V AC	Storage conditions	-40°C to 70°C/-40°F to 158°F (85% RH)
PAR out	169 µmol/s	234 µmol/s	Warranty	5 Years
Voltage input	44 VDC	44 VDC		
Current Range	R+FR CH1: 0.99A@44V R+FR CH2: 0.30A@43V	R+FR CH1: 1.4A@44V R+FR CH2: 0.4A@44V		
Isolation Class	Class III	Class III		
Heat BTU Generated	222 BTUs/h	307 BTUs/h		
Power Factor	NA	NA		
Dimming	0-10 V optional	0-10 V optional		



High ceiling mounting Bracket x 2 pcs



Low ceiling mounting Bracket x 2 pcs

or

Standard:

High ceiling mounting
Bracket x 2 pcs

Optional:

Low ceiling mounting
Bracket x 2 pcs



External Driver



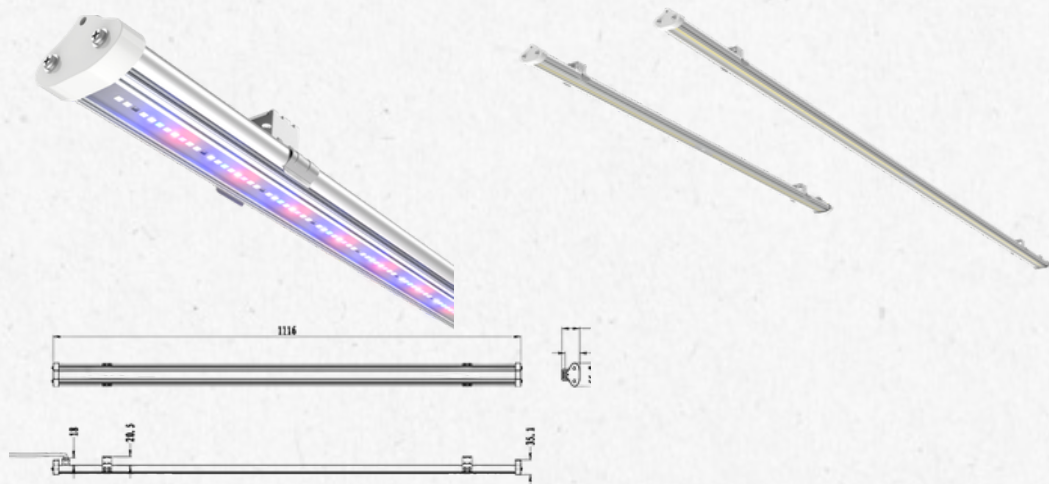
Splitter Cable

Accessories

* The tolerance for power is ±5%

* The tolerance for weight is ±6%

IXION APOLO



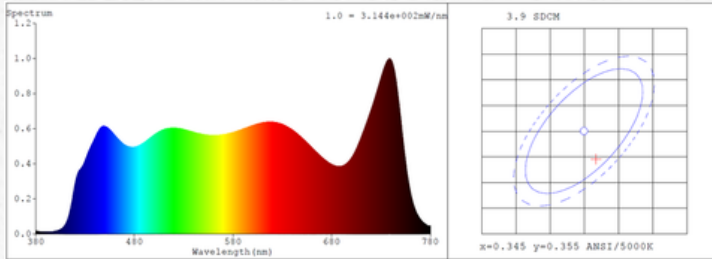
- **Housing material:** Aluminum
- **Optics materials :** PC cover (transmission >90%)
- **Radiation angle:** 120°
- **Ingress Protection:** IP65 (dust and watertight)

COMPLIANCE:

CE certification
Low Voltage Directive (LVD)
Electromagnetic Compatibility Directive (EMC)
Restriction of Hazardous Substances (RoHS)
Directive

* typical values for stable operation at 25°C / 77 °F
ambient temperature

IXION APOLO



Power consumption	65 W	90 W	Dimensions	1116 x 55.8 x35.1 mm / (Standard)
Apolo System efficacy (±10%) only SUNLIKE	1.51 μmol/J @230 V AC /	1.27 μmol/J @230 V AC	Net Weight	0.8 kg/1.8 lbs
PAR out	98 μmol/s	114 μmol/s	Operation conditions	0°C to 40°C/32°F to 104°F (95% RH)
Apolo System efficacy (±10%) only FAR RED	2.3 μmol/J @230 V AC	2.3 μmol/J @230 V AC	Storage conditions	-40°C to 70°C/-40°F to 158°F (85% RH)
PAR out	149,5 μmol/s	207 μmol/s	Warranty	5 Years
Voltage input	48 V DC	43 V DC		
Current Range	0.88 A@45 V DC	1.44A A@52 V DC		
Isolation Class	Class III	Class III		
Heat BTU Generated	136 BTUs/h	222 BTUs/h		
Power Factor	NA	NA		
Dimming	0-10 V optional	0-10 V optional		



or

Standard:
High ceiling mounting
Bracket x 2 pcs

Optional:
Low ceiling mounting
Bracket x 2 pcs



Accessories

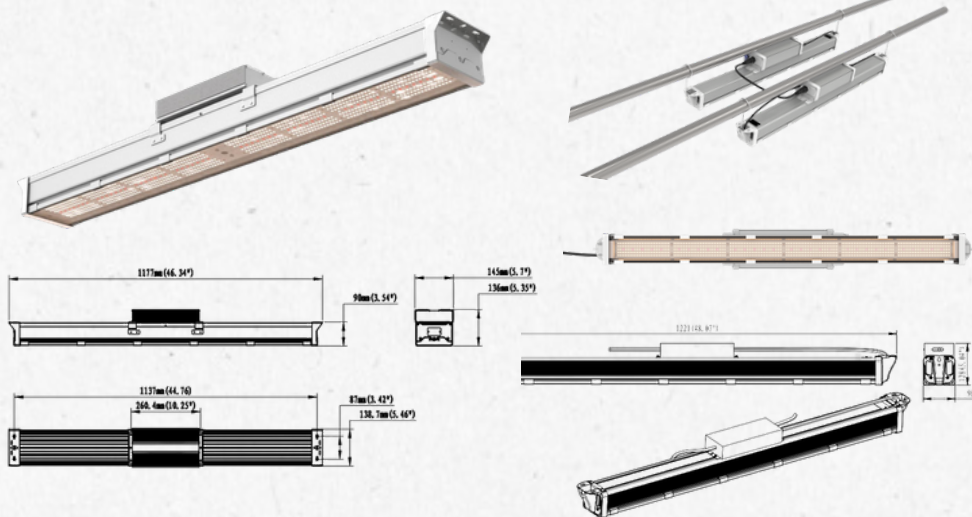
External Driver

Splitter Cable

* The tolerance for power is ±5%

* The tolerance for weight is ±6%

POTENS SERIES



- **Housing material:** Aluminum
- **Optics materials :** Glass (transmission >92%)
- **Radiation angle:** 120°
- **Ingress Protection:** IP65 (dust and watertight)

MOUNTING:



or



Standard: 2*V cords
attach to 2*rope
ratchet

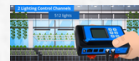
Optional: Hanging
hook *2 pcs

COMPLIANCE:

CE
ETL
Low Voltage Directive (LVD)
Electromagnetic Compatibility Directive (EMC)
Restriction of Hazardous Substances (RoHS)
Directive

* typical values for stable operation at 25°C /77 °F
ambient temperature

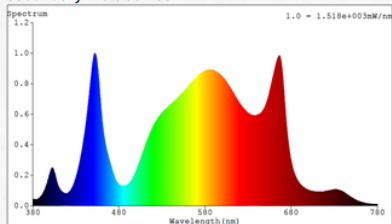
HYDRO-X ENVIRONMENTAL CONTROL SYSTEM



POTENS SERIES

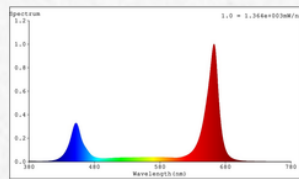
SPECTRUM CHART

Spectrum PBAR
For all stages and increase
secondary metabolites

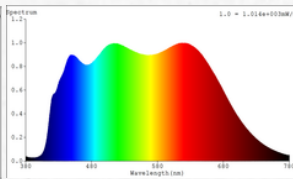


AVAILABLE SPECTRUMS

Spectrum RB
For supplementary lighting



Sunlike
For all stages for low PPFD targets

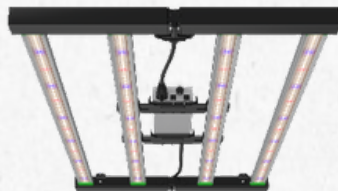


	300 W	600 W
Power consumption	300 W	600 W
PBAR System efficacy (±10%)	2.1 µmol/J @230 V AC	2.0 µmol/J @230 V AC
PAR output	630 µmol/s	1200 µmol/s
ePAR output	645 µmol/s	1218 µmol/s
Voltage input	100-240 V AC, 100-277 V AC 50-60 Hz	100-277 V AC 50-60 Hz
Current Range	3 A@100 V, 1.08 A@277 V	6 A@100 V, 2,17 A@277 V
Isolation Class	Class I	Class I
Heat BTU Generated	1023 BTUs/h	2046 BTUs/h
Power Factor	>0.95	>0.95
Dimming	0-10 V	0-10 V
Dimensions	1221 x 98 x 128 mm 48.03" x 3.86" x 5.03"	1177 x 145 x 136mm 46.34" x 5.7" x 5.35"
Net Weight	8 kg/17.64 lbs	11.6 kg/25.7 lbs
Qty/CTN	1 pc	1 pc
Gross Weight	9 kg/19.84 lbs	12.68 kg/27.95 lbs
CTN Size	1310 x 185 x 225 mm 51.6" x 7.3" x 8.86"	1340 x 195 x 200mm 52.76" x 7.7" x 7.9"
Operation conditions	0°C to 40°C / 32°F to 104°F (95% RH)	0°C to 40°C / 32°F to 104°F (95% RH)
Storage conditions	-40°C to 70°C / -40°F to 158°F (85% RH)	-40°C to 70°C / -40°F to 158°F (85% RH)
Warranty	5 Years	5 Years

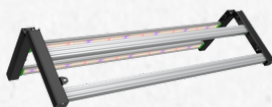
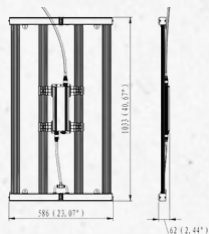
* The tolerance for power is ±3%

* The tolerance for weight is ±6%

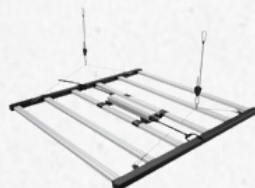
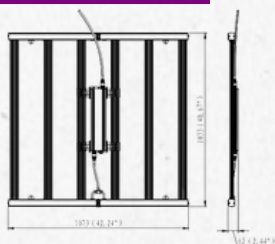
LED grow light solution for growing indoor plants



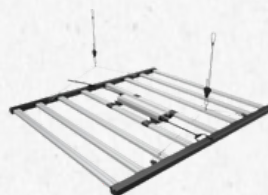
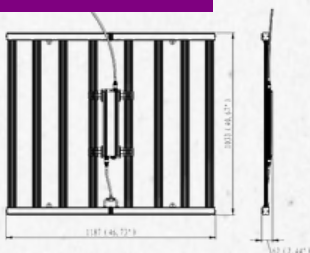
CROP-X 400



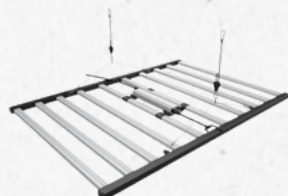
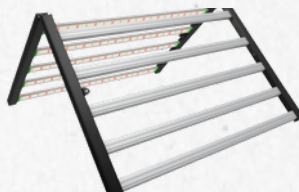
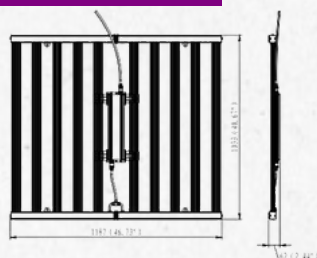
CROP-X 600



CROP-X 800



CROP-X 1000



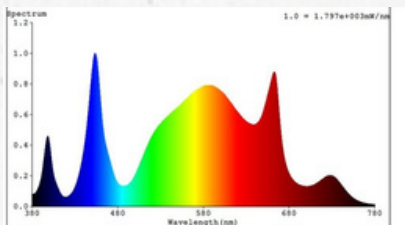
Power consumption	CROP-X 400 W	CROP-X 600 W	CROP-X 800 W	CROP-X 1000 W
System efficacy (±10%)	2.3 µmol/J@230 V AC	2.3 µmol/J@230 V AC	2.3 µmol/J@230 V AC	2.3 µmol/J@230 V AC
PAR Output	920 µmol/s	1380 µmol/s	1840 µmol/s	2300 µmol/s
ePAR Output	966 µmol/s	1449 µmol/s	1932 µmol/s	2415 µmol/s
Voltage input	120-240 V AC, 120-277 V AC 50-60 Hz	120-240 V AC, 120-277 V AC 50-60 Hz	120-240 V AC, 120-277 V AC 50-60 Hz	120-240 V AC, 120-277 V AC 50-60 Hz
Current Range	3.3 A@120 V, 1.44 A@277 V	5 A@120 V, 2,16 A@277 V	6,6 A@120 V, 2,88 A@277 V	8,3 A@120 V, 3,61 A@277 V
Isolation Class	Class I	Class I	Class I	Class I
Heat BTU Generated	1365 BTUs/h	2047 BTUs/h	2730 BTUs/h	3412 BTUs/h
Power Factor	>0.95	>0.95	>0.95	>0.95
Dimming	0-10 V	0-10 V	0-10 V	0-10 V
Dimensions	586 x 1033 x 62 mm (23.07" x 40.67" x 2.44")	1073 x 1033 x 62 mm (42.24" x 40.67" x 2.44")	1187 x 1033 x 62mm (46.73" x 40.67" x2.44")	1187 x 1033 x 62mm (46.73" x 40.67" x2.44")
Net Weight	4.74 kg/10.38 lbs	7.2 kg/15.87lbs	8.24 kg/18.17lbs	10.4 kg/20.8lbs
Qty/CTN	1 pc	1 pc	1 pc	1 pc
G.W	6.9 kg/15.18 lbs	10.22 kg/22.48lbs	11.34 kg/24.95lbs	13.3 kg /26.6lbs
CTN SIZE	1090 x 110 x 420 mm 42.91"x 4.33"x 16.54"	1090 x 110 x650mm 42.91"x 4.33"x25.6"	1090 x 110 x 720mm 42.91"x 4.33"x28.35"	1090 x 110 x 720mm 42.91"x 4.33"x28.35"
Operation conditions	0°C to 40°C/32°F to 104°F (95% RH)	0°C to 40°C/32°F to 104°F (95% RH)	0°C to 40°C/32°F to 104°F (95% RH)	0°C to 40°C/32°F to 104°F (95% RH)
Storage conditions	40°C to 70°C/32°F to 104°F (85% RH)	40°C to 70°C/32°F to 104°F (85% RH)	40°C to 70°C/32°F to 104°F (85% RH)	40°C to 70°C/32°F to 104°F (85% RH)
Warranty	5 Years	5 Years	5 Years	5 Years

* The tolerance for power is ±3%

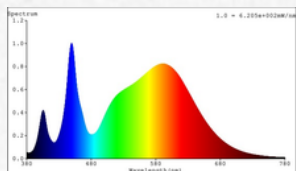
* The tolerance for weight is ±6%

AVAILABLE SPECTRUMS

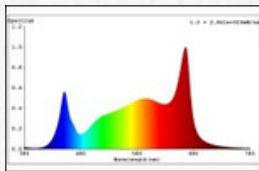
Spectrum PBAR For full cycle



Spectrum 2B For vegetative stage



Spectrum PAR DEEP For full cycle



- External 0-10V driver with knob dimmer
- Foldable design, smaller packing size
- Samsung and Osram brand chips
- 0-10V Capatitable for EC2820 or trolmaster
- controller system, with RJ ports design

COMPLIANCE:

CE

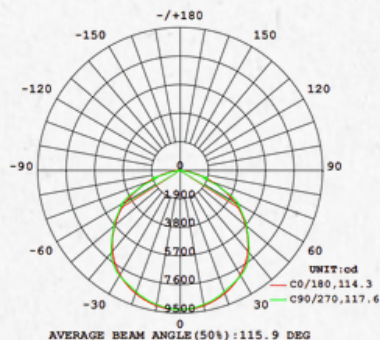
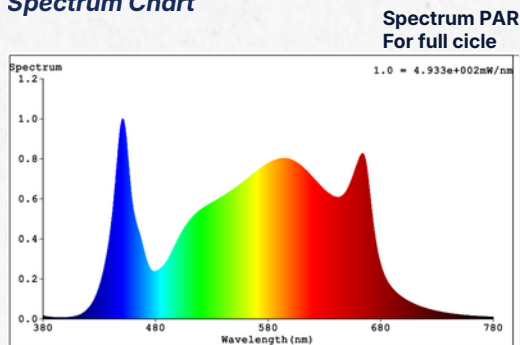
Low Voltage Directive (LVD)

Electromagnetic Compatibility Directive (EMC)

Restriction of Hazardous Substances (RoHS) Directive

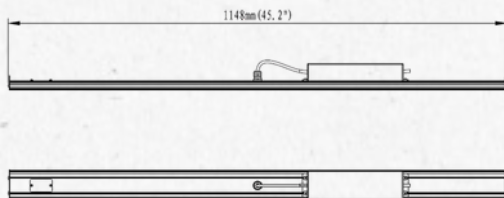
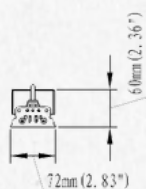
OMNIA 150

Spectrum Chart



Power consumption	150 W
System efficacy±10%)	2.46 µmol/J@230 V AC
PAR Output	369 µmol/s
ePAR Output	377 µmol/s
Voltage input	100-240 V AC, 100-277 V AC 50-60 Hz
Current Range	1.5 A@100 V, 0.54 A@277 V
Isolation Class	Class I
Heat BTU Generated	512 BTUs/h
Power Factor	>0.9
Dimming	0-10 V
Dimensions	1148 x 72 x 60 mm 45.2"x 2.84"x 2.36"
Net Weight	2.1 kg/5.1 lbs
Qty/CTN	1 pc
Gross Weight	3 kg/6.6 lbs
CTN SIZE	1195 x 130 x 120 mm 47.5" x 5.1" x 4.7"
Operation conditions	0°C to 40°C/32°F to 104°F(95% RH)
Storage conditions	-40°C to 70°C/-40°F to 158°F(85% RH)
Warranty	5 Years

* The tolerance for power is ±5%
* The tolerance for weight is ±6%



- Housing material: Aluminum
- Optics materials: Conformal coating (transmission >97%)
- Radiation angle: 120°
- Protection degree: IP65 (dust and watertight)

COMPLIANCE:

- CE
- ETL
- Low Voltage Directive (LVD)
- Electromagnetic Compatibility Directive (EMC)
- Restriction of Hazardous Substances (RoHS)
- Directive

Accessories

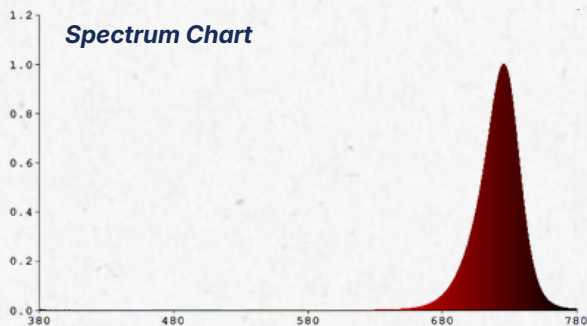
Standard:
2 x V cords attach
to 2 x rope ratchets

or

Optional:
Ceiling mounting
bracket x 2 pcs



PHYTO 730



Power consumption	30 W
System efficacy (±10%)	0.14 µmol/J@230 V AC
PAR Output	4.2 µmol/s
ePAR Output	65 µmol/s
Voltage input	100-240 V AC, 100-277 V AC 50-60 Hz
Current Range	0.3 A@100 V, 0.11 A@277 V
Isolation Class	Class I
Heat BTU Generated	102 BTUs/h
Power Factor	>0.9
Dimming	No

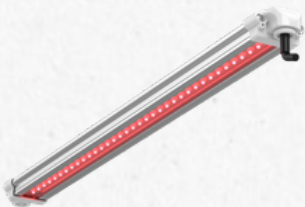
Dimensions		605 x 57 x 31 mm 23.82"x 2.24"x 1.22"	1145 x 57 x 31 mm 45.08"x 2.24"x 1.22"
Net Weight		0.85 kg/1.87 lbs	1.5 kg/3.3 lbs
Qty/CTN		8 pcs	8 pcs
Gross Weight		8.7 kg/19.18 lbs	14.7 kg/32.41 lbs
CTN SIZE	Inner carton	625 x 80 x 80 mm 24.6"x 3.15"x 3.15"	1165 x 80 x 80 mm 45.87"x 3.15"x 3.15"
	Outer carton	640 x 345 x 185 mm 25.2"x 13.58"x 7.28"	1180 x 345 x 185 mm 46.46"x 13.58"x 7.28"
Operation conditions		0°C to 40°C/32°F to 104°F(95% RH)	
Storage conditions		-40°C to 70°C/-40°F to 158°F(85% RH)	
Warranty		5 Years	

* The tolerance for power is ±10%

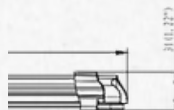
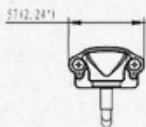
* The tolerance for weight is ±6%

* The tolerance for power is ±5%

* The tolerance for weight is ±6%



605 mm 23.82"/1145 mm 45.08"



- Housing material: Aluminum
- Optics materials: Ultra Clear Glass
- Radiation angle: 120°
- Protection degree: IP65 (dust and watertight)

- Flowering induction effect of 730 nm far-red light
- The flowering cycle can be controlled by 660 nm and 730 nm illumination without relying solely on the influence of the season, which is of great value for ornamental flowers.
- Ensure the quality and quantity of flowering yields.
- Facts proved that a deliberate use of far red light with appropriate ratio at the flowering stage of cannabis can ensure the quality and quantity of flowering yields

COMPLIANCE:

- CE certification
- Low Voltage Directive (LVD)
- Electromagnetic Compatibility Directive (EMC)
- Restriction of Hazardous Substances (RoHS)
- Directivepe

** typical values for stable operation at 25°C / 77 °F ambient temperature*

CE **RoHS** IP65
WATERPROOF

Accessories



Standard:
Low bracket
x 2 pcs



Optional:
High bracket
x 2 pcs



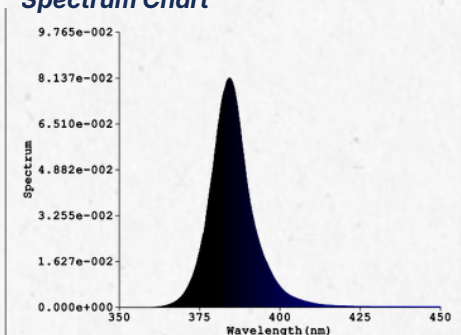
Optional:
Hanging Hook
with rope x 2 pcs



Optional:
low bracket
with ring x 2 pcs

RADUV 385

Spectrum Chart



Power consumption	30 W
System efficacy (±10%)	NA
PAR Output	NA
ePAR Output	NA
Voltage input	100-240 V AC, 100-277 V AC 50-60 Hz
Current Range	0.3 A@100 V, 0.11 A@277 V
Isolation Class	Class I
Heat BTU Generated	102 BTUs/h
Power Factor	>0.9
Dimming	No

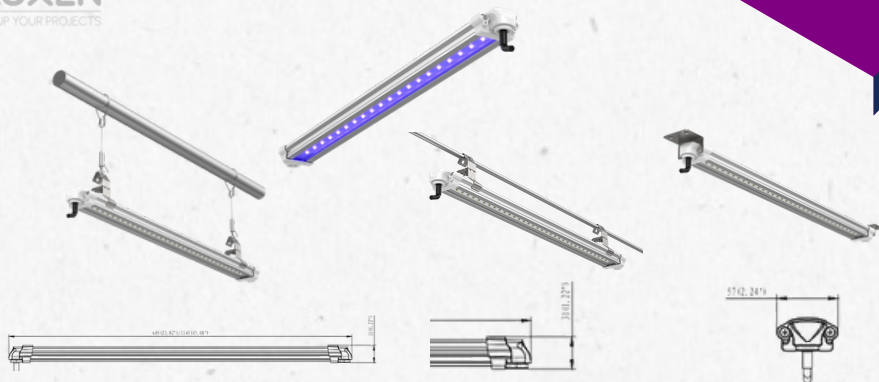
Dimensions		605 x 57 x 31 mm 23.82"x 2.24"x 1.22"	1145 x 57 x 31 mm 45.08"x 2.24"x 1.22"
Net Weight		0.85 kg/1.87 lbs	1.5 kg/3.3 lbs
Qty/CTN		8 pcs	8 pcs
Gross Weight		8.7 kg/19.18 lbs	14.7 kg/32.41 lbs
CTN SIZE	Inner carton	625 x 80 x 80 mm 24.6"x 3.15"x 3.15"	1165 x 80 x 80 mm 45.87"x 3.15"x 3.15"
	Outer carton	640 x 345 x 185 mm 25.2"x 13.58"x 7.28"	1180 x 345 x 185 mm 46.46"x 13.58"x 7.28"
Operation conditions		0°C to 40°C/32°F to 104°F(95% RH)	
Storage conditions		-40°C to 70°C/-40°F to 158°F(85% RH)	
Warranty		L 70, 6400 hrs@25°C	

* The tolerance for power is ±10%

* The tolerance for weight is ±6%

* The tolerance for power is ±5%

* The tolerance for weight is ±6%



605mm 23.82"/ 1145 mm 45.08"

- Housing material: Aluminum
- Optics materials: Ultra Clear Glass
- Radiation angle: 120°
- Protection degree: IP65 (dust and watertight)

- UV grow light as a supplemental lighting can match up with your current cannabis lighting in greenhouse/ indoor/ vertical farming and grow tent applications.
- The supplemental UV LED grow lights could be used in the cannabis flowering stage, help with increasing the THC content of cannabis.

COMPLIANCE:

- CE certification
- Low Voltage Directive (LVD)
- Electromagnetic Compatibility Directive (EMC)
- Restriction of Hazardous Substances (RoHS) Directive

** typical values for stable operation at 25°C / 77 °F ambient temperature*

CE  RoHS IP65
WATERPROOF

Accessories



Standard:
Low bracket
x 2 pcs



Optional:
High bracket
x 2 pcs



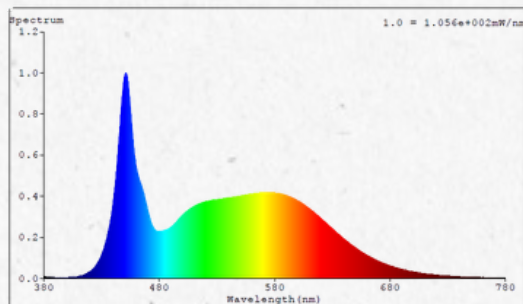
Optional:
Hanging Hook
with rope x 2 pcs



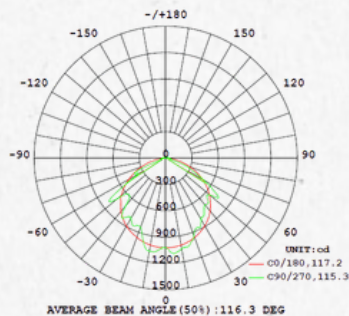
Optional:
low bracket
with ring x 2 pcs

CLONUX 20

Spectrum Chart



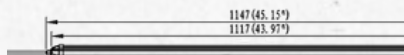
IES test



Power consumption	20 W
System efficacy (±10%)	2.3 µmol/J@230 V AC
PAR Output	46 µmol/s
ePAR Output	47 µmol/s
Voltage input	100-240 V AC, 50-60 Hz
Current Range	0.2 A@100 V, 0.08 A@240 V
Isolation Class	Class II
Heat BTU Generated	68 BTUs/h
Power Factor	>0.9
Dimming	No
Dimensions	1147 x 31 x 38 mm 45.2"x 1.2"x 1.5"
Net Weight	0.28 kg/0.62 lbs
Qty/CTN	30pcs
Gross Weight	10.6Kg/21.3 lbs
CTN SIZE	1205 x 245 x 320 mm 47.4"x 9.6"x 12.6"
Operation conditions	0°C to 40°C/32°F to 104°F (95% RH)
Storage conditions	-40°C to 70°C/-40°F to 158°F (85% RH)
Warranty	3 Years

* The tolerance for power is ±10%
* The tolerance for weight is ±6%

* The tolerance for power is ±5%
* The tolerance for weight is ±6%



- Housing material: PC
- Optics materials: PC
- Radiation angle: 120°
- Protection degree: IP65 (dust and watertight)

COMPLIANCE:

- CE
- Low Voltage Directive (LVD)
- Electromagnetic Compatibility Directive (EMC)
- Restriction of Hazardous Substances (RoHS) Directive

** typical values for stable operation at 25°C / 77 °F ambient temperature*

CE  RoHS IP65
WATERPROOF

Accessories



Ceiling
Bracket x 2 pcs



S shaped hook
x 2 pcs
(optional)



AC Cord 1.5 m
with EU plug x 1 pc

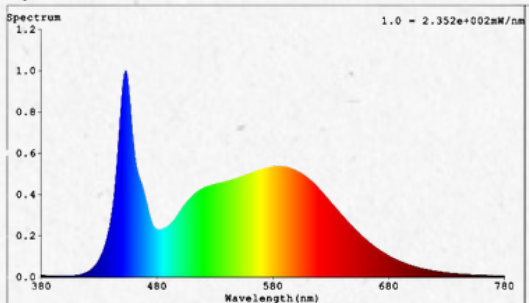


M15
Waterproof
cap x 1 pc

CLONUX 50 PRO

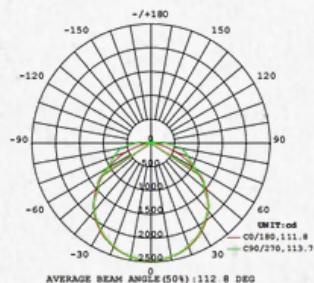
Spectrum Chart

Spectrum



IES test

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



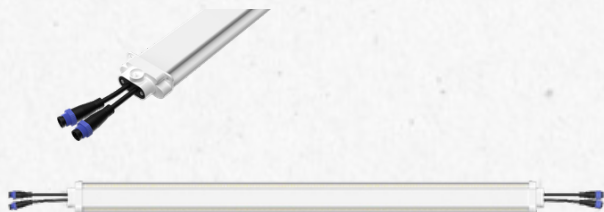
Power consumption	50 W
System efficacy (±10%)	2.3 µmol/J@230 V AC
PAR Output	125 µmol/s
ePAR Output	129 µmol/s
Voltage input	120-240 V AC, 50-60 Hz
Current Range	0.22A@230V AC
Isolation Class	Class II
Heat BTU Generated	171 BTUs/h
Power Factor	>0.9
Dimming	0-10 V
Dimensions	1108 x 74.3 x 30.3 mm 43.62" x 2.93" x 1.19"
Net Weight	0.85 kg/1.9 lbs
Qty/CTN	2 pcs
Gross Weight	3.5 kg/ 7.7 lbs
CTN SIZE	1170 x 185 x 65 mm 46.06"x 7.28"x 2.56"
Operation conditions	0°C to 40°C/32°F to 104°F (95% RH)
Storage conditions	-40°C to 70°C/-40°F to 158°F (85% RH)
Warranty	5 Years

* The tolerance for power is ±10%

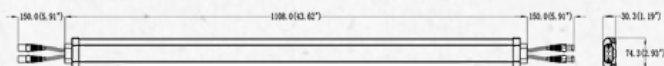
* The tolerance for weight is ±6%

* The tolerance for power is ±5%

* The tolerance for weight is ±6%



Distance between 2 fixtures: 30 cm



- Housing material: PC
- Optics materials: PC
- Radiation angle: 120°
- Protection degree: IP65 (dust and watertight)

COMPLIANCE:

- CE
- Low Voltage Directive (LVD)
- Electromagnetic Compatibility Directive (EMC)
- Restriction of Hazardous Substances (RoHS) Directive

** typical values for stable operation at 25°C / 77 °F ambient temperature*

CE  **RoHS** **IP65**
WATERPROOF

Accessories



Clip kit: 2 x clips
(standard)

Magnet: 2 x
magnets
(optional)

Hanging kit: 2 x V
cords attach to 2 x
rope ratchet
(optional)

M15 1500mm/5ft Dim
connector(standard,
need to order
separately)

M15 1500mm/5ft AC
connector(standard,
need to order
separately)

M15 waterproof end
cap(standard, need
to order separately)

PURGATO 254

Power (±5%)	20 W
Peak Wavelength	254 nm
Input Voltage /Frequency	100-120VAC/220-277VAC,50/60Hz
Beam Angle	120 °
Effective UV Intensity(with Filter)	2000μW/cm ²
Net Weight	0.83 Kg
Gross Weight	1.38 Kg
Dimensions (L x W x H)	370 x 95 x 110 mm
CTN Size	440 x 150x 190 mm
Storage Environment	Dry and Ventilation Environment
Ambient Temp	-10 C to + 50 C
Warranty	8000 Hours

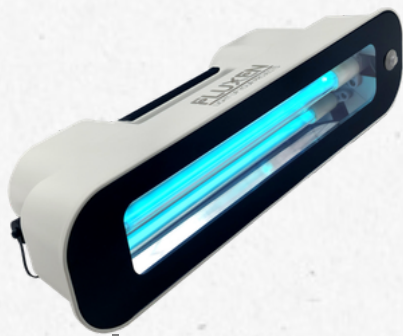
The allowable value of 222nm irradiation on human body



Warning for PURGATO 254



Growers should use the product everyday to prevent the spread of Powdery mildew and botrytis. With a distance of 5-10cm to the plants, the exposure time should Between 2-5s. The larger distance to the plants, the longer exposure time should be. Always use the safety glass and gloves if use 254nm UVC.



Blue service light
The indicator light is blue when working

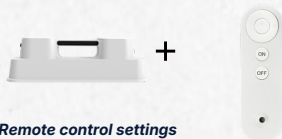
(Button): on/off



PURGATO-254 AC Power Up + Remote Control Version



370(14.57'')



Remote control settings

ON: Open status

OFF: Closed state

Installation Instructions



Handheld



Wall mounted



Ring installation

Accessories



Extension
rod option



AC cable
with plug



Extension
cable option



Celling Ring
brackets
option



Rope ratchet
hangers option