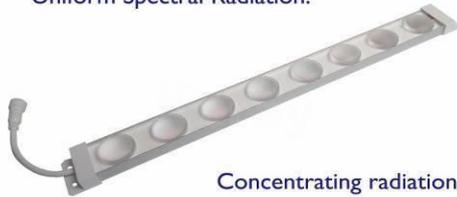
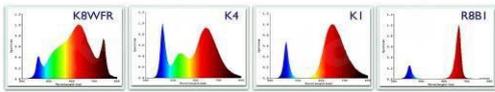


Description: RX-GW45-DC515 LED bar Waterproof LED Grow Light - New patent design product with unique lens structure, Different LED chips in one lens, Concentrating Light and More uniform spectral radiance, directional light with higher light utilization efficiency, More efficient than common grow lights. Silicone sealed waterproof, more reliable. Ultra slim 21mm, Large area of aluminum heat dissipation and Low temperature rise with longer life-time; Suitable for various of plant cultivation and especially for high-density shelf structure Plant Factories.

Many different LED chips in one lens,
Uniform Spectral Radiation.



Concentrating radiation,
Energy saving 50%



1. Ultra-thin 21mm, multi-shelf lighting plant growth lights
2. Different LED chips in one lens, Spectral radiation uniform, directional condenser irradiation, energy saving 50%, Beam angle 60 °
3. Silicone potting waterproof IP67
4. Optional other wavelengths: 450nm, 660nm, 730nm
5. Customize the spectrum you need (for specialized companies only)
6. Input: DC24V, Power: 12W
7. New design, patented products
8. Lifespan: 50000hours
9. CE RoHS FCC

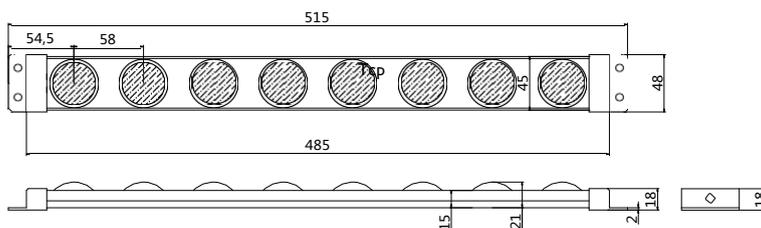
Model	Dimension	LED QTY Peak Wavelength	Photon PPFD μmol/m ² /s	Luminous flux Radiation Power	Power Input	Comment
RX-GW45-DC515-K4	515x48x21mm	Full Spectrum K4 56pcs	105.56μmol @0.2m	Flux 806Lm Fe 4.0W	12W DC24V	Universal type grow light Ra 70 Ornamental plants, Vegetable plantfactory
			70.50μmol @0.3m			
			33.63μmol @0.5m			
RX-GW45-DC515-K1		Full Spectrum K1 56pcs	90.48μmol @0.2m	Flux 269Lm Fe 2.7W		Plant factory And home vegetable cultivation
			61.38μmol @0.3m			
			29.29μmol @0.5m			
RX-GW45-DC515-K8WFR		Full Spectrum K8W 48pcs FR730nm 8pcs	108.08μmol @0.2m	Flux 944Lm Fe 3.7W		CRI Ra97 For home planting - flowers, potted ornamental plants
			71.35μmol @0.3m			
			34.49μmol @0.5m			
RX-GW45-DC515-R8B1		660nm Red 64pcs 450nm Blue 8pcs	162.40μmol @0.2m	Flux 179Lm Fe 3.9W		Deep Blue + Deep Red 8:1 For leafy vegetable planting
			108.67μmol @0.3m			
			50.49μmol @0.5m			

Surface temperature rise Tc 22° K , Operating temperature: -30 ° C ~ 40° C , Lifespan: 50,000 hrs (Note: Ta 25 ° C)

Tolerance range for optical and electrical data: ±10 %.

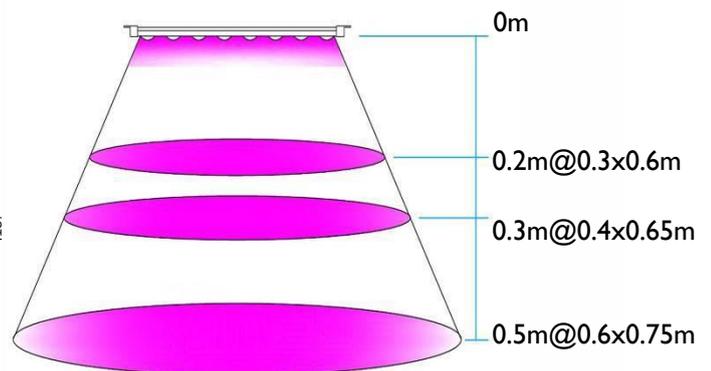
Beam angle: 60° Recommended irradiation distance: 0.3~0.6m

Dimension:



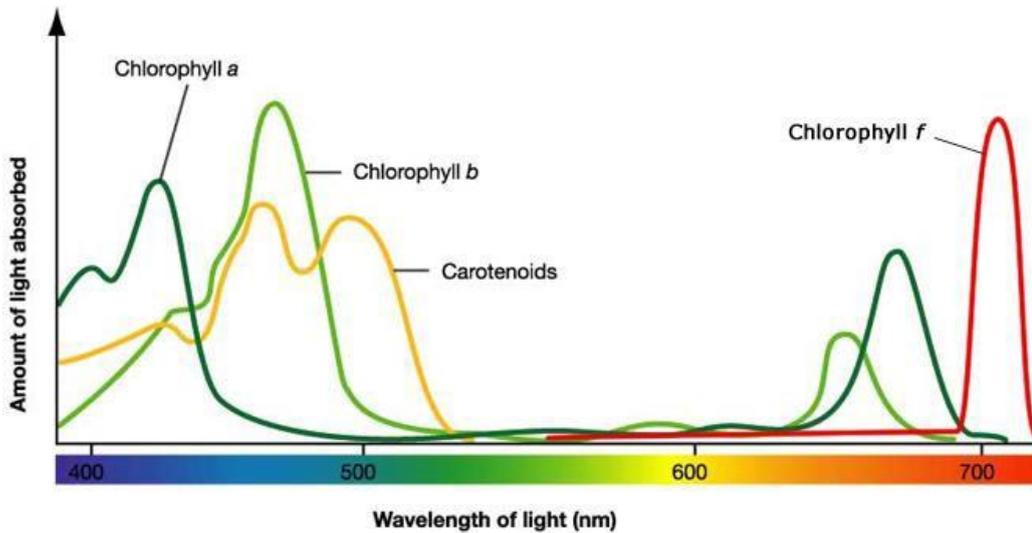
UNIT:mm

Depth distance & Coverage:



RX-GW45-DC515

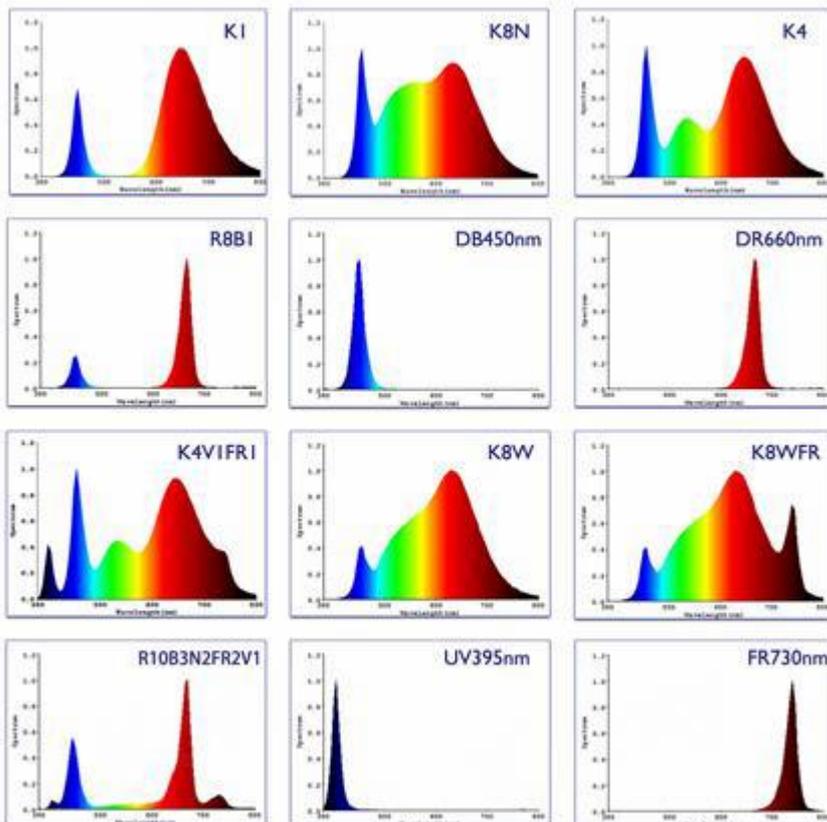
Spectral Properties of Plants



- 400-520nm light spectrum of leaf photosynthesis has the largest impact on photosynthesis, chlorophylls and carotenoids can prevent the leaves yellow, grow another news and cultivate plant stems' growth
- 610-720nm light spectrum that allow chlorophyll absorbs more has impact on seed germination, branch bifurcation, pigment synthesis, stem growth, flowering and Enzyme functions
- Far red (720 ~ 1000nm) to control the plant from germination to vegetative growth and flowering
- White to provide a human friendly working environment

Each sort of plant needs it's own tailored Spectral Power Distribution (SPD) to achieve the best results.

Spectral Properties



K1: Energy-efficient, no green spectrum (plants do not need the spectrum), suitable for plant plants, vegetable cultivation.

K8N: High CRI Ra97, For Flowers, ornamental plants and houseplants

K4: Universal plant spectrum, suitable for all plants, CRI Ra70, relatively easy to observe, the new spectrum is recommended.

R8B1: Deep Blue + Deep Red 8:1 For leafy vegetable planting

DB450nm: Deep Blue, plant photosynthesis can promote green leaf growth, protein synthesis, fruit formation, can be used for mushroom cultivation

DR660nm: Deep Red - Seed germination, promote plant rhizome growth, contribute to flowering results and prolong flowering

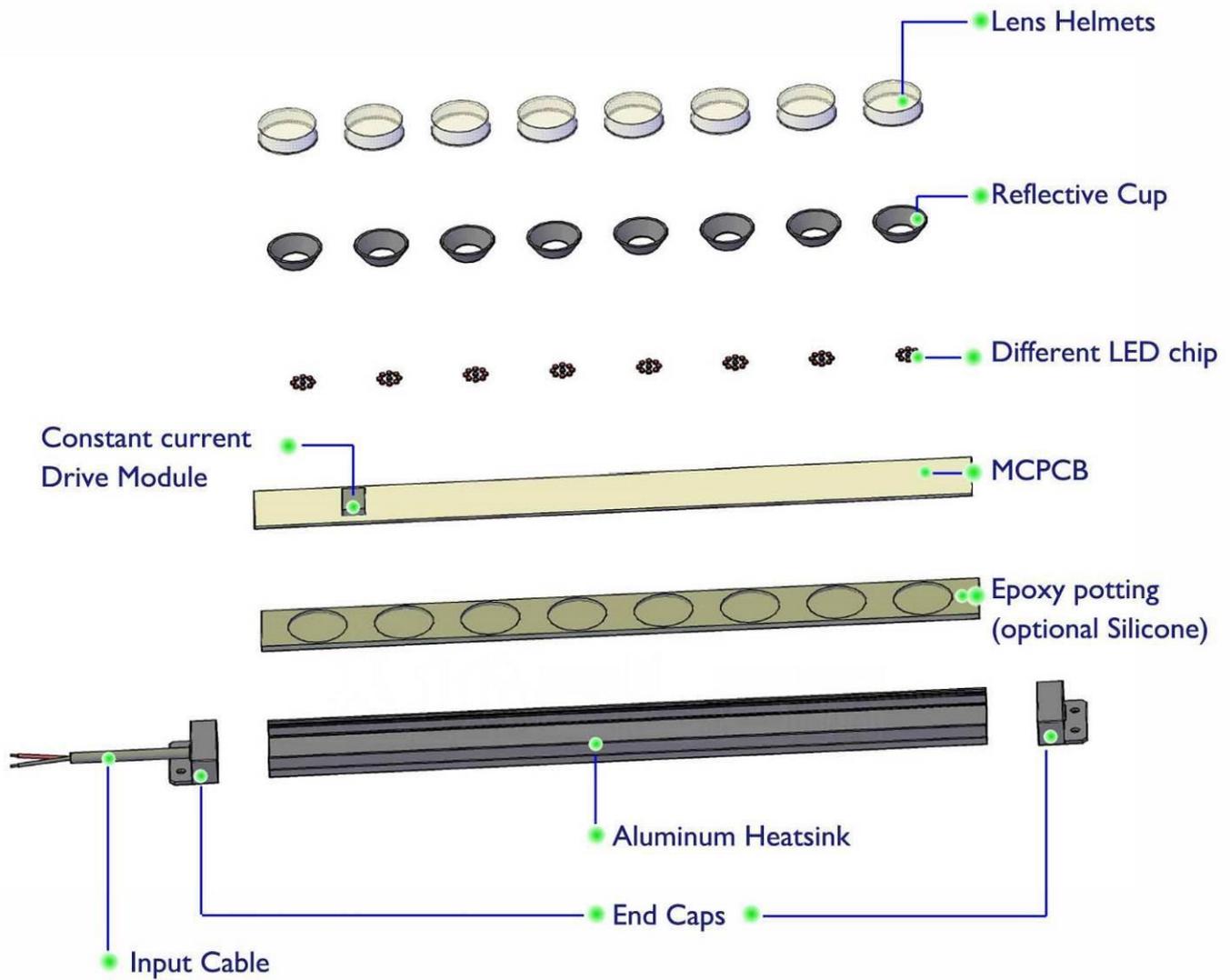
K4V1FR1: Increased 395nm and 730nm, a strong seedling and promote flowering

K8W: CRI Ra97, showing true color, easy to watch, for flowers, family ornamental plants.

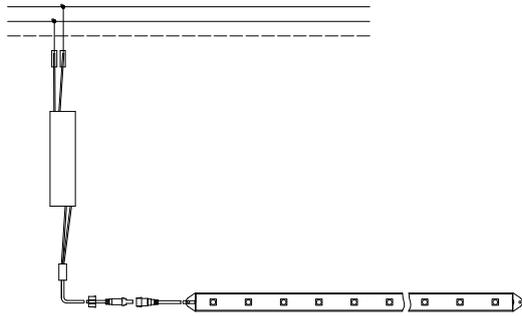
K8WFR: High CRI Ra97, showing true color, an increase of 730nm, for flowers and tomato cultivation.

FR730nm: Promote plant flowering

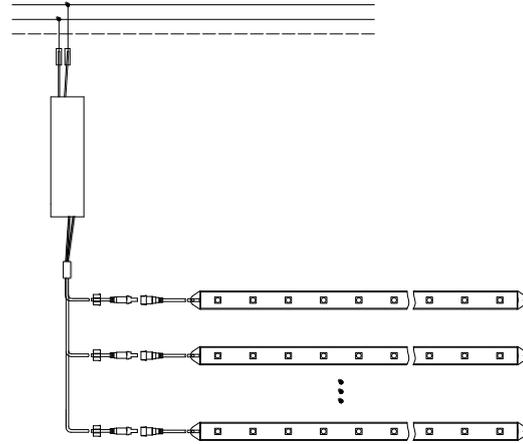
Explosion diagram



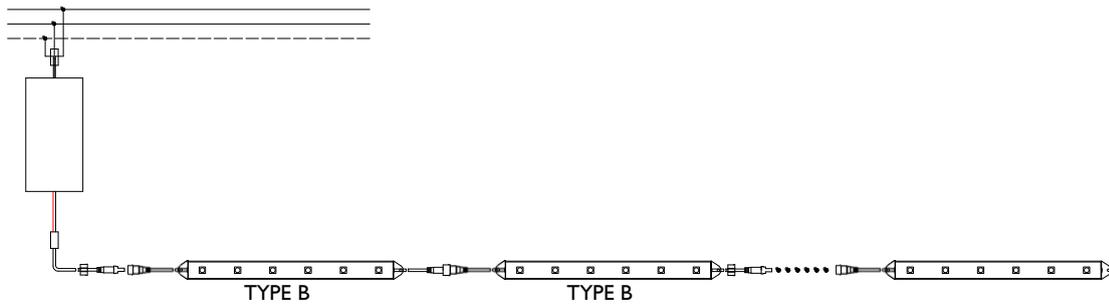
Wiring Diagram



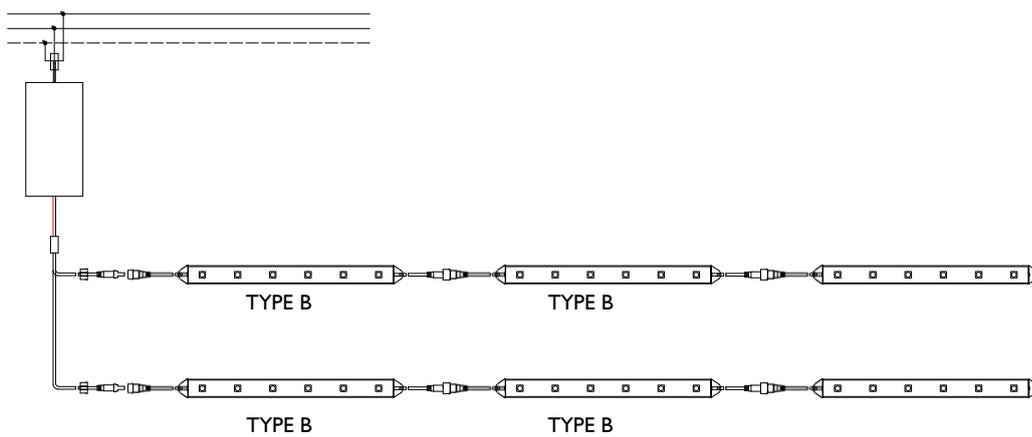
1, One power supply to drive One LED module



2, Parallel connection of up to 12pcs (150W)



3, Series connection of up to 10pcs



4, Series + Parallel connection Max 12pcs (150W)

Note: Meanwell HLG series Power Supply is recommended