

Description: G45-AC Horticulture LED module, Indoor Agriculture - patented product 201620887642, unique reflection and lens structure - high efficiency concentrating, uniform spectral radiation, directional illumination, higher light utilization, energy saving of at least 50% compared to Old T8 LED tube; Suitable for indoor cultivation in urban agriculture, hydroponic vegetables, succulents, Venus flytrap and other high-light ornamental plants.



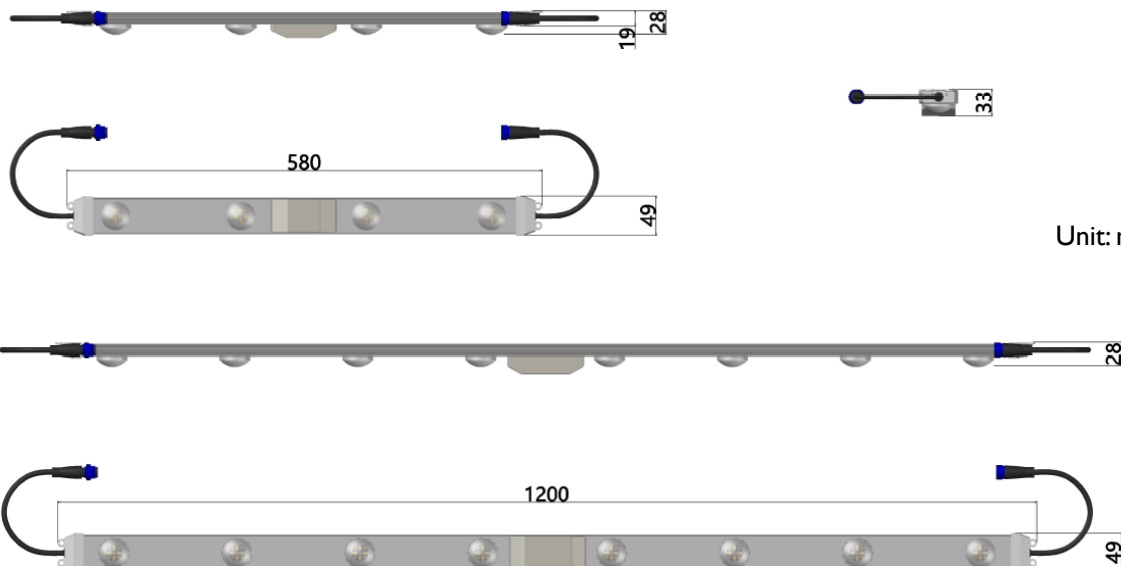
1. Indoor home gardening, multi-layer hydroponic vegetables, AC120 single coverage area 0.2x1.2m
2. Unique lens structure, uniform spectral radiation, lens + reflector, directional illumination, higher light utilization, Compared with the old T8 tube, the energy saving is 50%.
3. Waterproof IP65, max series connection 15pcs / AC120V, 28pcs / AC230V
4. F22 full cycle cultivation spectrum, suitable for most crops.
5. No flicker, high color rendering Ra>90, Protect your eyes, which is good for shooting.
6. 3750V high voltage test, safe and reliable!
7. Input voltage: AC220~240V (AC100~120V optional), PF >0.9
8. CE RoHS FCC

Model	Dimension LxWxH	Spectral Wavelength	Photon PPFD $\mu\text{mol}/\text{m}^2/\text{s}$	PAR Output PPF	Power Input	Comment
G45-AC120	1200x48x21mm	F22	350 μmol @0.2m	90 $\mu\text{mol}/\text{s}$	40W AC230V	The coverage area of a single strip is 0.2x1.2m
			230 μmol @0.3m			
			140 μmol @0.5m			
GW45-AC60	580x48x21mm	F22	300 μmol @0.2m	45 $\mu\text{mol}/\text{s}$	20W AC230V	The coverage area of a single strip is 0.2x0.6m
			200 μmol @0.3m			
			120 μmol @0.5m			

Operating temperature: -30°C ~ 40°C, Lifespan: 50,000 hrs (Note: Ta ≤ 25°C)
 Tolerance range for optical and electrical data: ± 10%.
 Custom plant light spectrum (Light recipe) please contact Koray

(Total PAR output: It is calculated by a single LED module) The above data is for reference only!

Dimension:



Unit: mm

Indoor home gardening cultivation, succulent, Venus flytrap, strawberry, three-dimensional planting, multi-layer hydroponic vegetable plant light, single coverage area 0.2x1.2m

G45 Succulents & Cordyceps & Vegetable LED Grow Lights



100% No flicker
Safety 3750V Test



F22 Spectrum



Easy to install



AC input



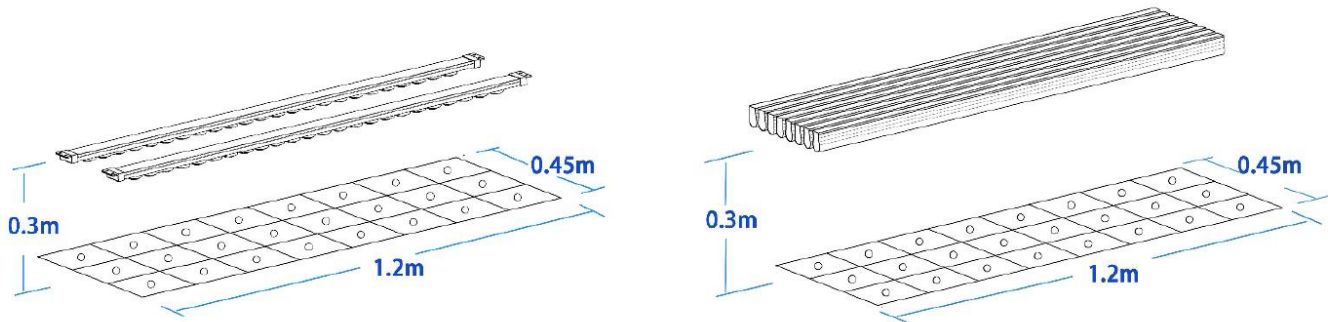
Energy saving 50%
Compared with old T8(0.3m Test)
Lens + reflector cup Improve PPFD

Patent No: 201620887642





Unique lens structure, reflector and condenser lens, improve PPFD, save energy by 50%, compared to old T8 tube



G45-120 V3 measured power 40W PPFD is red number unit umol/m2/s				8pcs T8 Measured power 137W PPFD is blue number unit umol/m2/s			
69	93	105	111	111	107	96	71
77	103	111	113	114	112	106	78
81	118	132	137	138	134	120	88
98	139	147	150	150	148	138	100
71	101	114	115	120	116	105	78
72	108	111	111	110	107	99	74

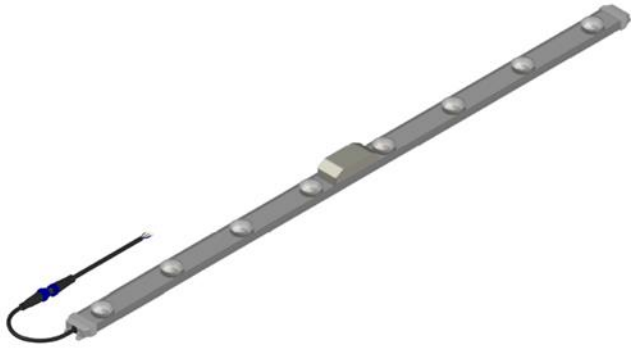
The average value of 24 points in the above picture is $\approx 110 \text{umol/m}^2/\text{s}$ for G45 plant light and $100 \text{umol/m}^2/\text{s}$ for T8 tube

The average PPFD G45 plant lamp is higher than the T8 lamp by%

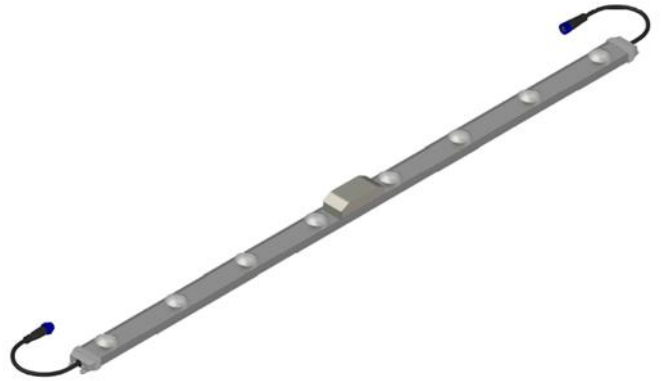
Power 2 G45 is 40W, 8pcs T8 is 137W, energy saving

Approximately, $(137-40)/137$, in this case, the energy saving is relatively 70%

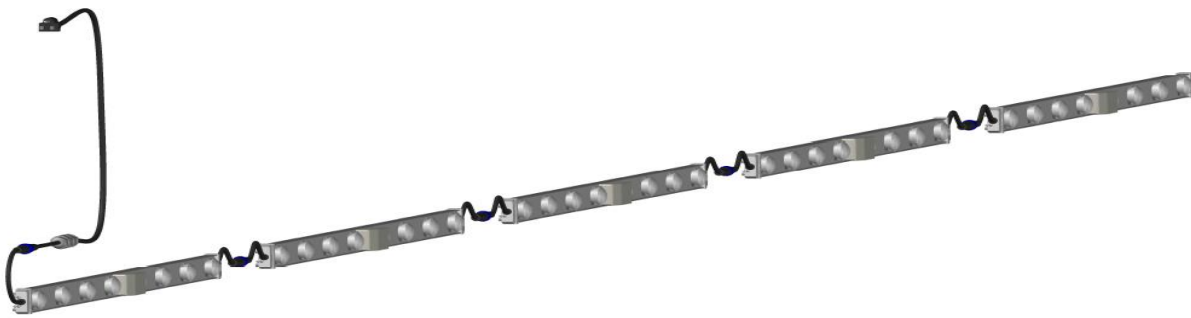
Connection wire type:



TYPE A three core wire single ended input

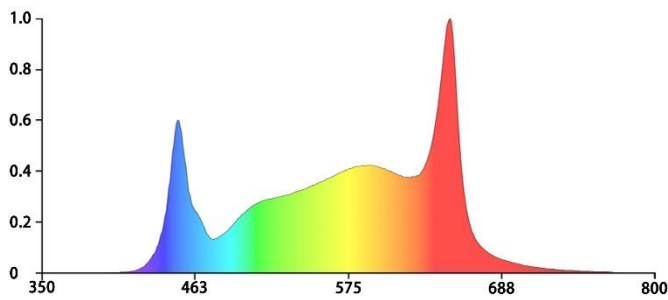


TYPE B double-ended waterproof plug

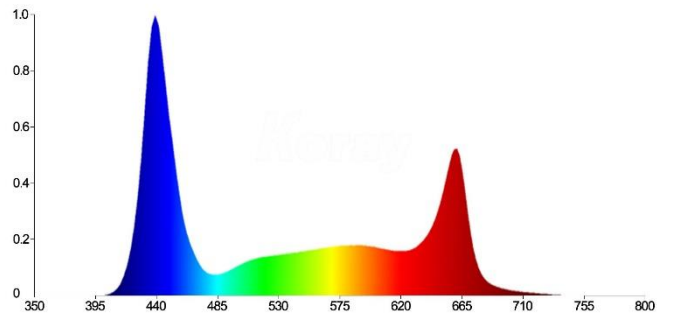


Series connection of TYPE P and TYPE B

Optional spectrum F22 and F22B

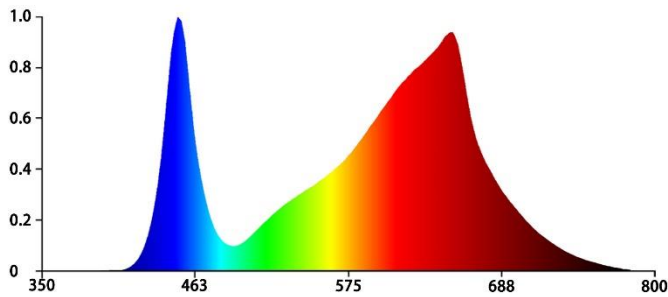


F22 spectrum: recommended full spectrum, Suitable for the full cycle growth of most crops



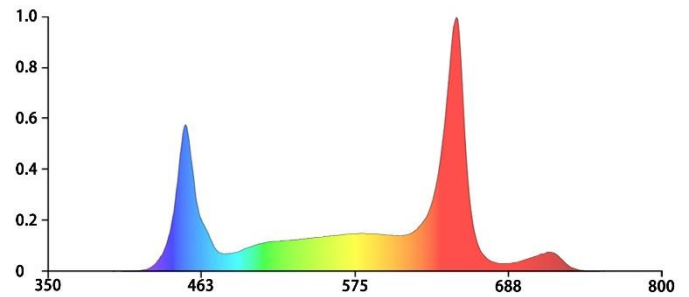
F22B4 spectrum, seedlings and vegetative growth 435nm-440nm peak, better photosynthesis, increase yield

Can customize the spectrum you need:



Can customize the spectrum you need:

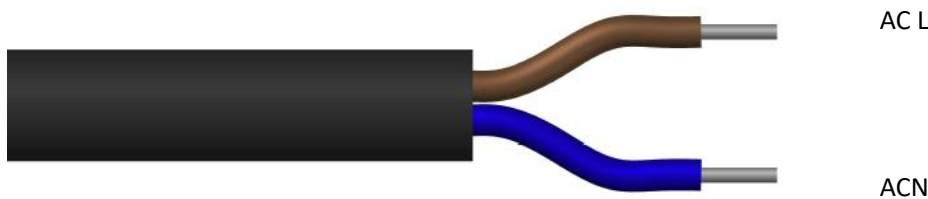
Customizable Spectrum (Succulents Venus flytrap and Ornamentals) K6A



Flowering Crop Spectrum V7A

Installation Instructions

1. When open the package, please check whether the inside is including product, accessory, label, certificate quality. And please assure that the light is perfect without any damage.
2. The wires of LED Light is three-core, the standard size of the wire is 3*1mm² or 3*1.5mm² and the outer diameter is $\Phi 7 \sim 12$ mm, brown wire is live line, blue wire is null line, yellow & green is ground line.
3. LED Light will work when the voltage up to rated voltage, so please be sure the voltage within the requested range, or it will damage the light which can't be repaired.
4. when the electrical continuity is connected, the lead wire should be in electric insulating The way of connect wire:



Attention

1. In order to make sure the light can work safety and stability, the ground line should be connected the earth.
2. When connecting the wires please turn off the power, and check whether the wires are connected correctly. Never connect the wires in opposite way, or the power should not be turned on.
3. Please keeping the trip bolt being fastening and reliable, in case of the light fall down of looseness.
4. When finishing connect the wires, please use the insulation gummed tape to convolve the wires, confirm the insulation and solve the waterproof problem.