



# USER MANUAL

SUNLIKE SERIES SH 1000/2000/4000




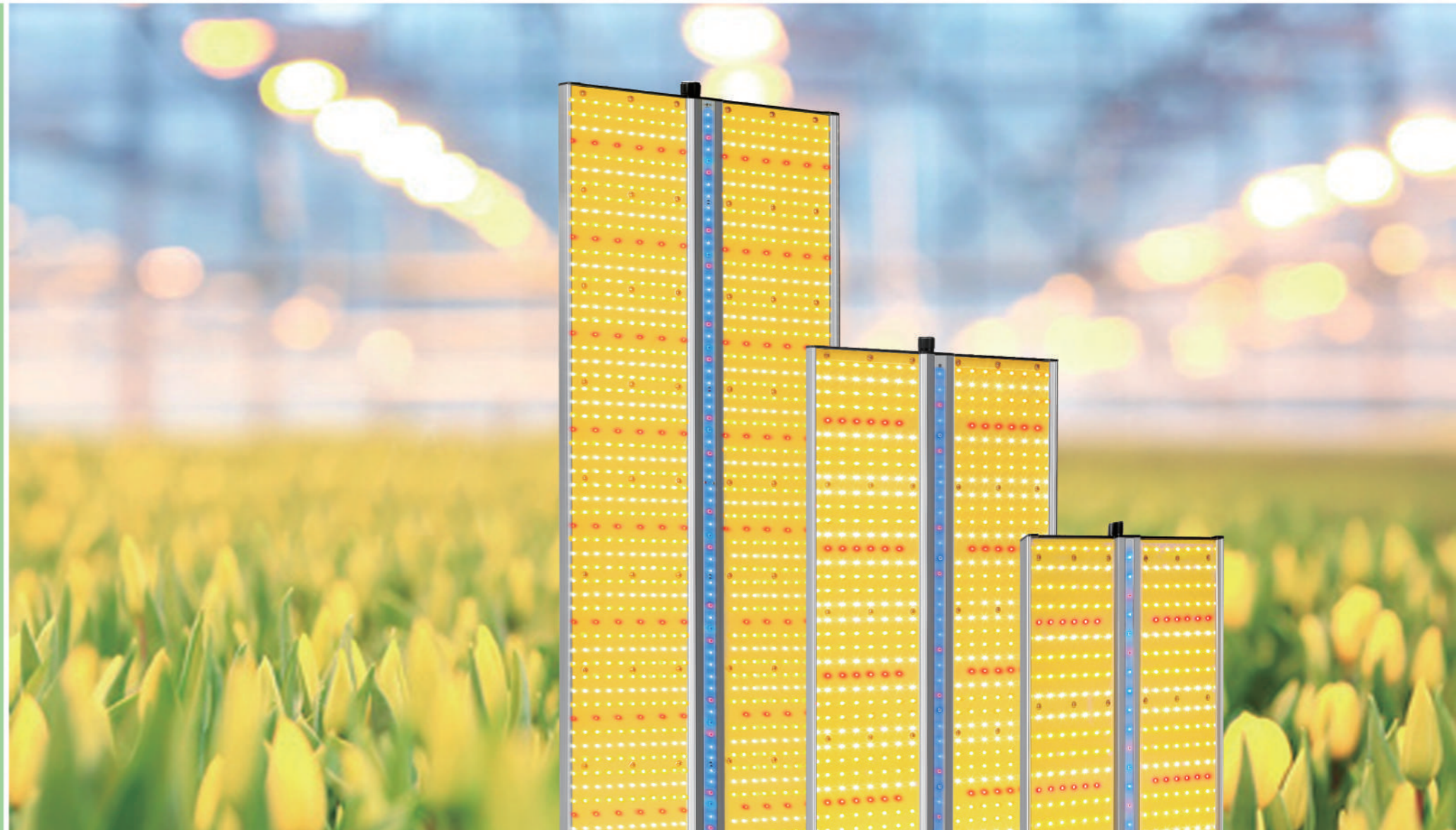
SAYHON  
version 3.0.1



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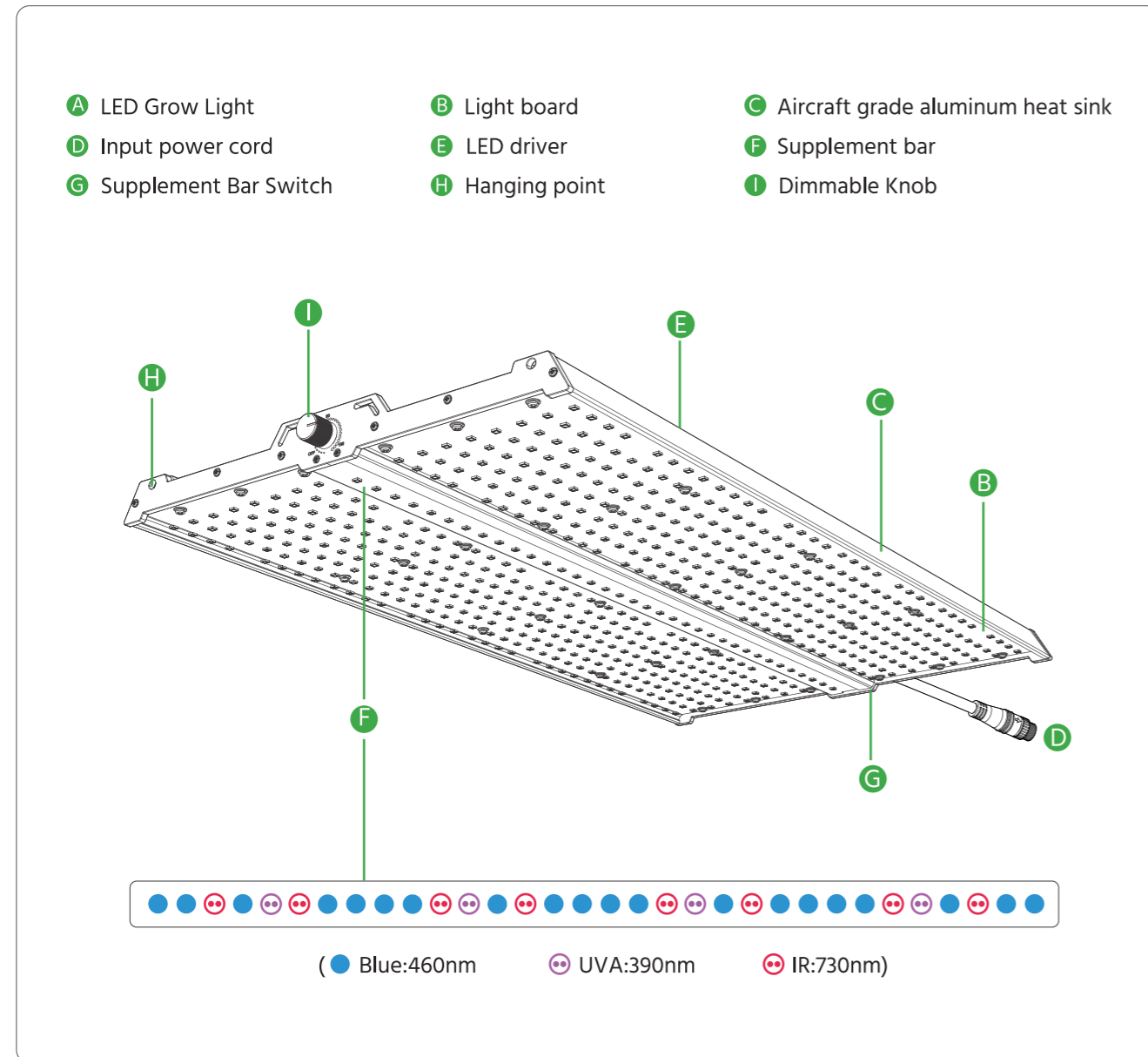


*Only use this product as specified within the manual*

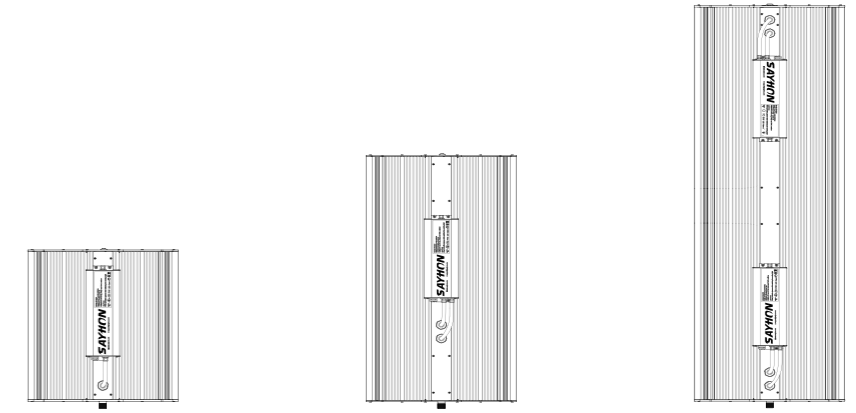
## Product Description

Please read this manual thoroughly before attempting to install or operate any SAYHON Series system.

It is important you read, fully understand, and observe the subsequent safety precautions. If you have any queries about the installation of high-performance lighting systems, you can contact us for help.



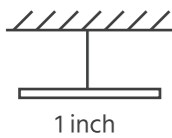
## Technical Specifications



Model	SH1000	SH2000	SH4000
Power(Watts)	105W±3%	208W±3%	410W±3%
Working Voltage	AC100-277V	AC100-277V	AC100-277V
LED Chip Brand	Osram Pro	Osram Pro	Osram Pro
Spectrum	UV(390nm) Blue(460nm) IR(730nm) Red(660nm) 2700K 5000K	UV(390nm) Blue(460nm) IR(730nm) Red(660nm) 2700K 5000K	UV(390nm) Blue(460nm) IR(730nm) Red(660nm) 2700K 5000K
Color Temperature	390nm 460nm 660nm 730nm 2700K 5000K	390nm 460nm 660nm 730nm 2700K 5000K	390nm 460nm 660nm 730nm 2700K 5000K
LED Chip Qty	2 10 24 4 160 96	4 20 48 8 288 224	8 40 96 16 1056 352
LED Total Chip Qty	296	592	1568
PPFD at 18"	538	893	1166
PPE	2.7	2.7	2.7
Footprint	3 X 3 ft	4 X 5 ft	5X 6 ft
IP-Rating	IP67	IP67	IP67
Operating Frequency	50~60 Hz	50~60 Hz	50~60 Hz
Operating Temperature	14~113 °F(-10~45°C)	14~113 °F(-10~45°C)	14~113 °F(-10~45°C)
Power Factor	>0.92	>0.92	>0.92
Light Weight	5.8 lbs (2.6kg)	8.8 lbs (4kg)	16.5 lbs (7.5kg)
Warranty	3 Years	3 Years	3 Years
Light Dimension	14x11.8x2.4 (inches) 355x300x60 (mm)	23x11.8x2.4 (inches) 585x300x60 (mm)	43.5x11.8x2.4 (inches) 1105x300x60 (mm)
Package Dimension/Set	15.6x13.2x4.2 (inches) 395x335x105 (mm)	24.1x13.2x4.2 (inches) 613x335x105 (mm)	46.1*13.6*4.9 (inches) 1170x345*125 (mm)

## General Care

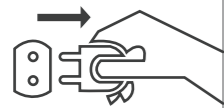
SAYHON SH1000~4000 Sunlike Series systems are passively cooled with zero moving components. They are designed for harsh environments and years of maintenance-free performance. Some basic care will keep your system operating at peak performance cycle after cycle.



Natural convection removes heat away from the heat sink. In order for the system to properly cool itself, at least one inch of space is required between the console and the roof of your grow area. Failure to do so may shorten the fixture's lifespan.



To achieve the optimal lifespan and performance of your fixtures, routinely check for and remove excess dust, debris, and mineral build up from heat sink and LED array.



Cleaning should always be done with the fixture unplugged from its power source using low-pressure compressed air or water to rinse away dirt from light bars.



Never use a cloth to clean the diode array. Doing so can scratch or compromise the integrity of the silicon seal, or dislodge diodes entirely.



To limit degradation, avoid touching the diodes with your hands, even in a powered off state.

## Important Safety Precautions



### NOTICE:

SAYHON is a high-performance lighting system. Do not touch while in operation.

- Connect the system only to power sources of the correct voltage AC 100~277V (as shown in this manual). Protect power cables from being pinched, walked on, or otherwise damaged. Be especially careful where the power cable enters the power outlet and the unit. Only connect the system to an electrical outlet or extension cord of appropriate type and rating.
- DO NOT defeat the safety purpose of a grounding or polarized plug by removing ground pins or using unsafe adapters. A polarized plug has two blades—one wider than the other. A grounding plug has a third ground prong in addition to the two main conductors. The wide blade or third grounding prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician to replace your obsolete outlet. If you replace the power cord, only use one of similar type and equal or greater current rating.

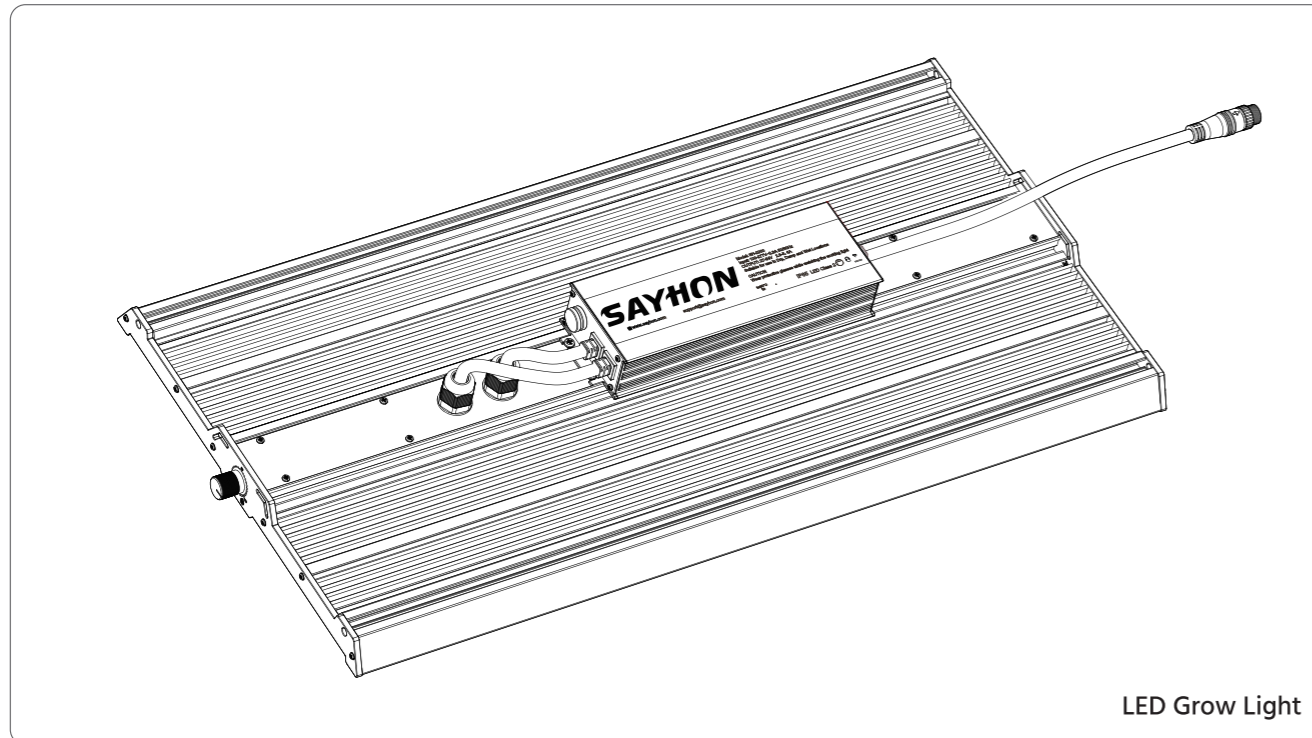
The system should only be cleaned as directed in the manual. You should seek service for your system by qualified service personnel if any of the following occur:

- The power-supply cord or the plug has been damaged.
- The unit has been exposed to rain.
- The unit exhibits a marked change in performance.
- The unit has been dropped, or its enclosure or chassis is damaged.

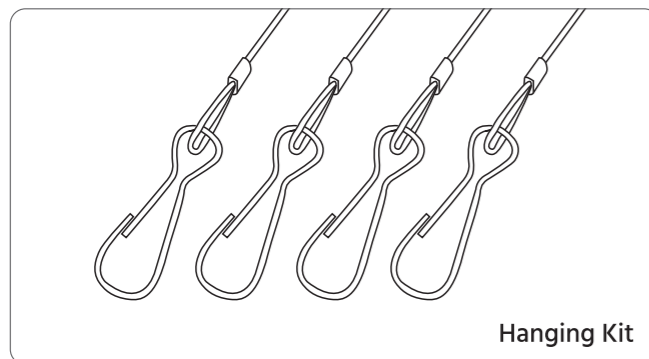
### CAUTION:

- ☒ To prevent eye damage, avoid looking directly at the unshielded LEDs .
- ☒ LED and heat sink surfaces may be hot . Allow sufficient cooling time before handling.
- ☒ To reduce the risk of overheating or fire, never place operating fixtures face down on a flush surface. Always allow for adequate ventilation of fixtures and power supplies.

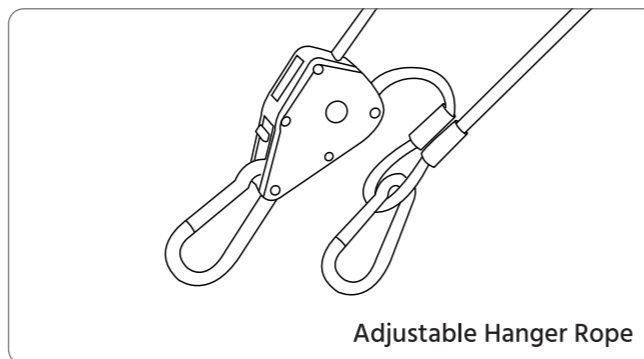
## Product Contents



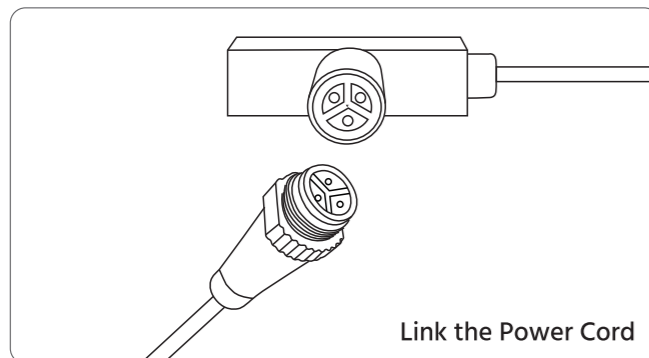
LED Grow Light



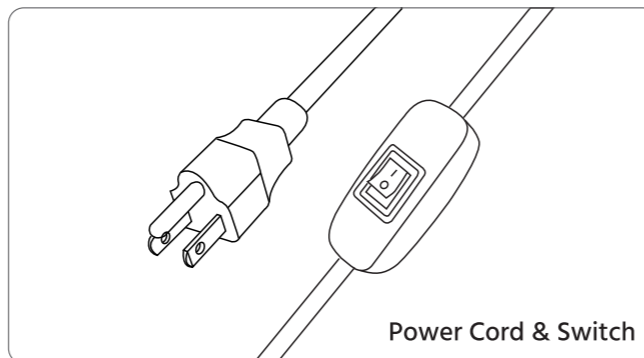
Hanging Kit



Adjustable Hanger Rope



Link the Power Cord



Power Cord & Switch

## Practice Share

SAYHON encourages everyone to experiment and pursue their own techniques. Every crop is different and everyone has different goals. However, our internal research has given us insight into several strategies we would like to share.

- Regularly check your plants' growth and health. SAYHON lighting systems deliver high levels of PAR, typically more than experienced in nature. Adjustments to H<sub>2</sub>O, CO<sub>2</sub>, RH, nutrients, and temperature are typically required.
- Mount the light 5" from the top of your canopy to ensure optimal uniformity and consistent PPFD. SAYHON was designed for maximum precision and requires precise deployment. A 1" variation in either direction will have a significant change in uniformity and PPFD (which may or may not be desired).
- Many plants prefer higher temperatures when exposed to high PPFD. Experiment with higher temperatures to achieve higher yields. Canopy temperature and room ambient temperature often vary. For accurate results, test at the canopy level to gauge leaf surface temperature.

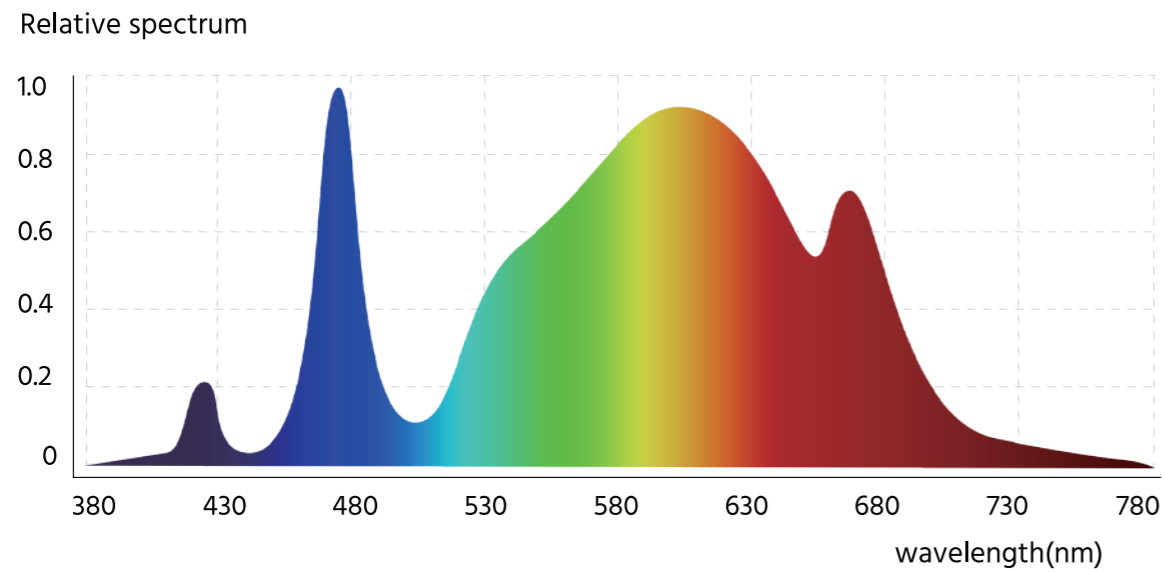
Sayhon's unique supplement Bar is mainly used for Seeding / flowering/ fruiting.

- **UVA** - speed up the germination process for starting seeds, Increases root mass/resistance to insects/bacteria and fungus, Improves taste and smell, Creates higher potency plants, Causes more branching.
- **IR** - Effective at promoting robust stem growth, boost photosynthesis, more flowers and fruit.

### Handing distance & Lighting time

- Handing distance: Seedling- 24inch Germination- 24~30inch Veg- 18~24inch Flower- 12~18inch
- Lighting time: Veg- 18 Hours ON Flower- 12~18 Hours ON

## Full Spectrum

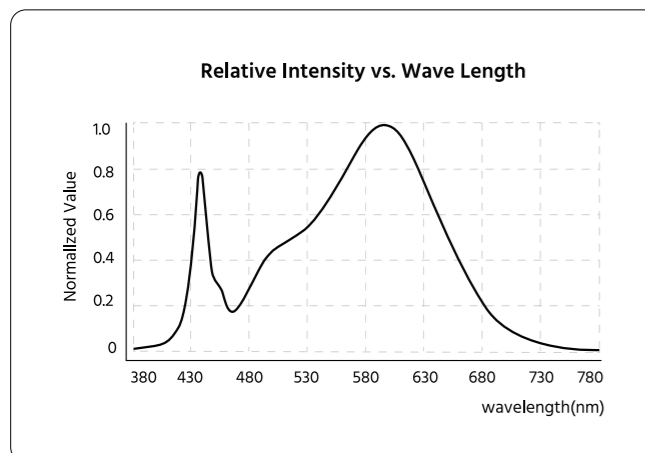


The newly designed SAYHON Horticulture Lighting for signaling effects are white based, and uses full spectrum to allow sufficient red and far-red light. Our approach goes beyond the standard of horticulture lighting by providing the highest efficacy of 2.7 $\mu$ mol/J, a dramatically extended non-yellowing lifetime and better PPFD uniformity.

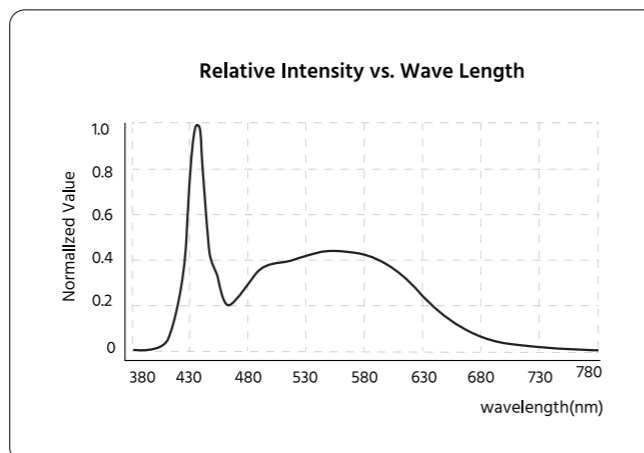
Furthermore, Our Horticulture LED has a full line-up of these-with high efficient blue, deep red, and far-red packages. You can apply this Horticulture Lighting virtually anywhere such as in greenhouse and indoor farming, where dynamic growth lighting is needed.

## Warranty Info

Since 2012 SAYHON LED has been a proud leader in the design and manufacturing of innovative high-power, high-yield, truly full-spectrum LED grow lights. All SAYHON systems are guaranteed against manufacturing defects for three years from date of purchase. Contact us at [support@sayhon.com](mailto:support@sayhon.com) for information on five year extended warranties.



CCT: 2700K (90CRI)



CCT: 5000K (90CRI)



Thank you for purchasing the SAYHON SUNLIKE SH series LED grow light. Our manual will describe the installation and mounting of the product as well as a description of how to use it. Please have an experienced, certified service personnel mount and install this device.

Please read and understand this manual in its entirety before using the product. Only use this product as specified within the manual.

*If you don't understand something,  
please contact us: [support@sayhon.com](mailto:support@sayhon.com)*

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