



# Linear LED Grow Light



## Linear LED

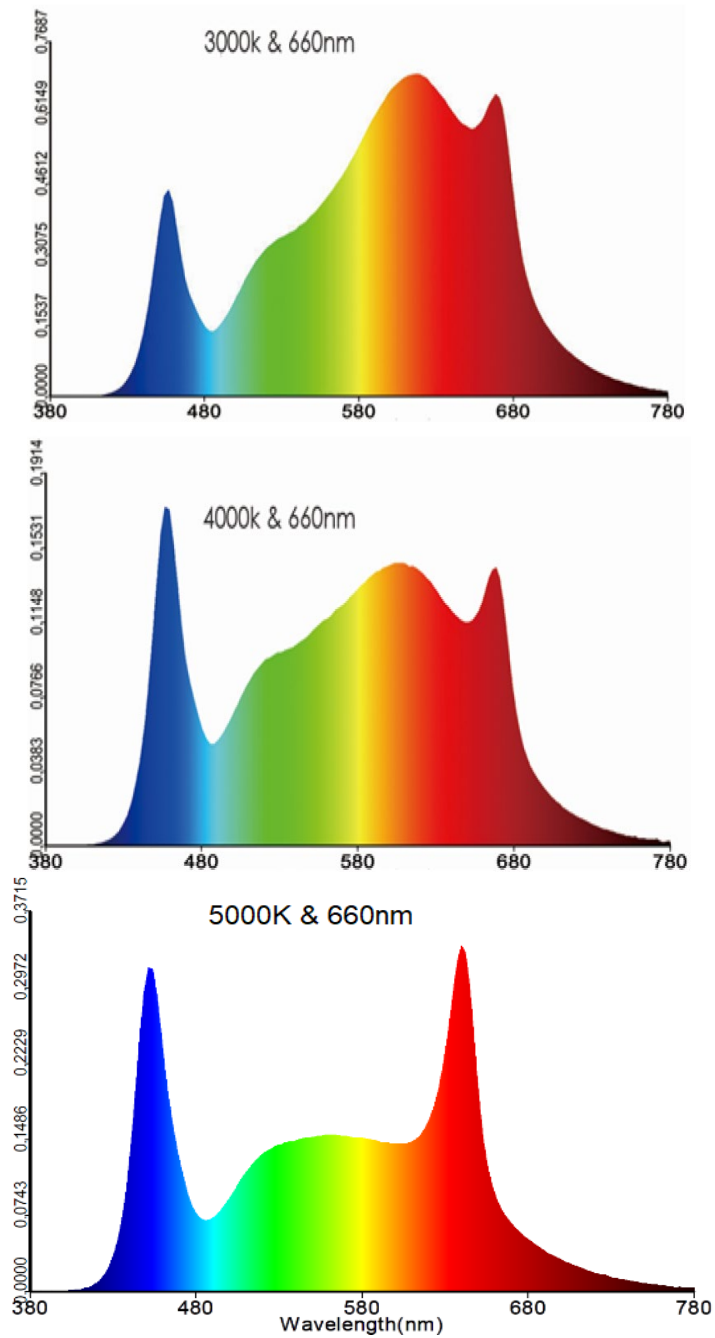


ITEM	Linear - 650
Max Input Wattage:	650 watts
Efficacy:	2.9 $\mu\text{mol}/\text{J}$
LED Counts:	1488
PPF:	1885 $\mu\text{mol}/\text{s}$
CRI:	92 Ra
Footprint:	6'x4'
Dimming:	Dimmer Knob
Spectrum:	Clone 5000K/ Veg 4000K/ Bloom 3000K
Light Source:	Samsung LM281 Pro & Osram Deep Red
Dimension:	43.3" x 43.3" x 7.2"
Weight:	22 lbs
Input Voltage:	120~277V (277~480 optional)
Input Amperage:	5.4A @120V / 2.75A @240V / 2.38A @277 / 1.38A @480V
Smart Control:	0-10V/RJ port
Lifespan:	L90: > 54,000hrs
IR Rating:	IP65
Thermal Management:	Passive
Operating Temp:	4°F~104°F
BTU Rating:	2151 btu/hr
HPS Equivalent:	1000W
Warranty:	5 Years

## Benefits on the new design:

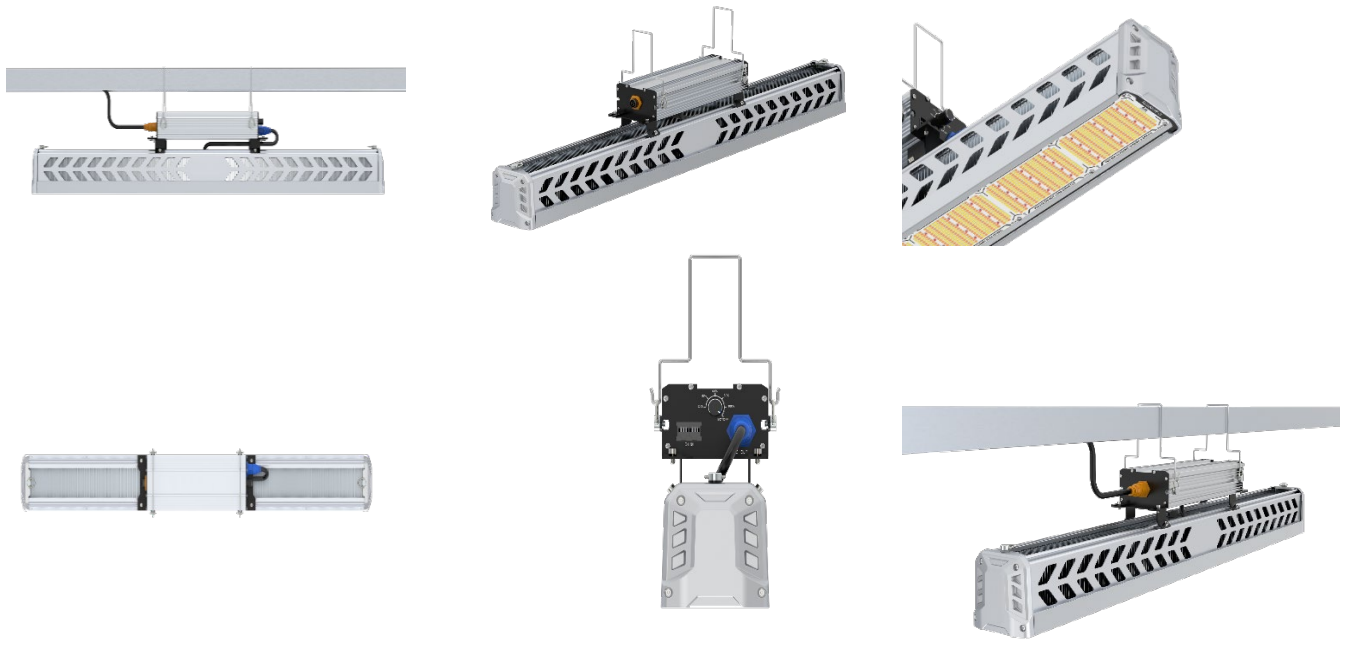
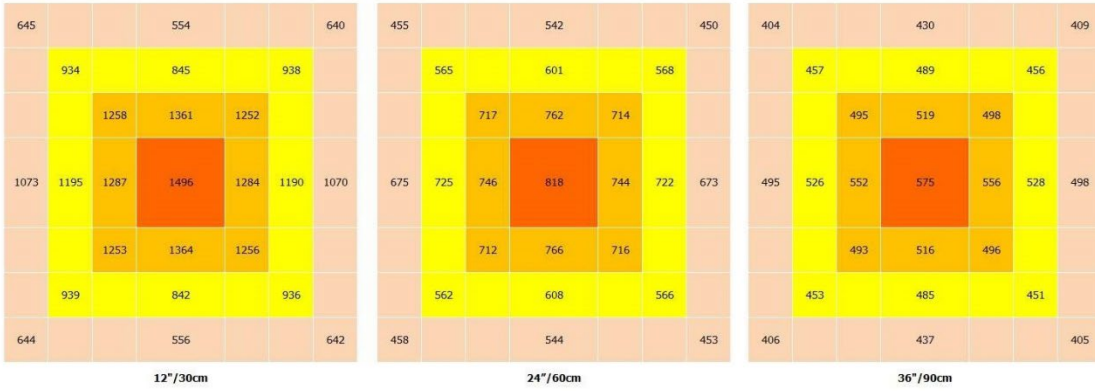
- 2.9 umol/J
- No assembly
- Passive thermal management - No fans
- Tempered glass cover for easy cleaning & high transmittance 98%

## Spectrum:



# 650W PPFD 5x5 Canopy

Samsung LM281 Pro+ & Osram



## Application examples:

- Vertical Grow
- Greenhouse Farm
- Hydroponics Grow
- Medical/Home Grow
- Indoor Warehouse/Commercial Grow

## Transportation:

Improper transportation may harm or can even cause damage to LED fixture and driver housing box. In case of visual damage or missing parts, please contact your sales contact immediately.

## Unpacking:

Please handle with care when unpacking the LED fixture! Check the contents to confirm all sub-components are included. A detailed list of the sub-components are shown in this manual.

Through transport or due to a long storage time, the LED-modules might get a little dirty. Therefore, we recommend that you clean each LED module before each use with a dry and soft tissue.

## Installation Options:

Hanging (suspended) or Rigid Mounting

## Operation:

Safety measures and caution!

**Warning!** This LED fixture is powered with 100-277V AC! To prevent injury, we request you to not use this product for improper use! Especially 277-480 AC! Surrounding temperature: MUST be less than 122°F.

Never open the Module of these devices or this may cause harm to that person and will void the warranty!

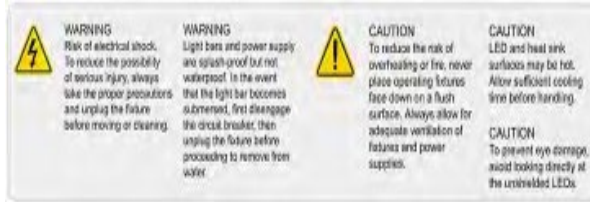
## Putting into service:

Operate the LED fixture only horizontally, while hanging or with a slight angled (approx. about 20°). Install the fixture about 5.91"-19.69" or at least a minimum of 2.94", above the top the plants!

## Proper use:

Do not use the LED fixture vertically or upside-down. Direct eye contact and long exposure over time may cause **permanent damage to your eyesight!**

We do not advise installation of this device as an enclosed room illumination. It is exclusively designed and developed for plant breeding, cultivation, and hibernation. Please ensure that the LED fixture is being operated out of sight and out of reach of children and animals to protect their eyesight!



## Controller:



## Product Advantage

### For Dimmable Electronic Ballast (HPS) or Driver (LED)

- Set output from 50% to 100%
- Show output at Watts (W) or Percentage (%)
- No need for switchboard
- Easy and safe installation (low voltage device)
- Protection against short circuit
- Double temperature safety feature
- Control up to 100 fixtures
- Set Sunrise/Sunset Timer
- Auto shutdown at temp setting
  - Temp and Humidity Sensors with solid cable connect



- ① : DC 5V Power Input                      ②/⑤ : Temperature and humidity sensor Port  
 ③/⑥ : EXT(RJ14 Port)                      ④/⑦ : Relay Switch Port(Port 2-4 for Group A, 5-7 for Group B)  
 ⑧ : USB    ⑨ : eDALI/RS485 Signal Output

Dimension	208mm(L)*132mm(W)*33mm(H)	Over heat protection	Yes
Input voltage	DC5V/2000mMA	Sunrise/sunset setting	Yes
Control voltage outputs	2 Groups A/B	Weight	0.7KG
Numbers of ballasts per output	100Pcs Max	Warranty	3 Years
Max cable length per group	100m		