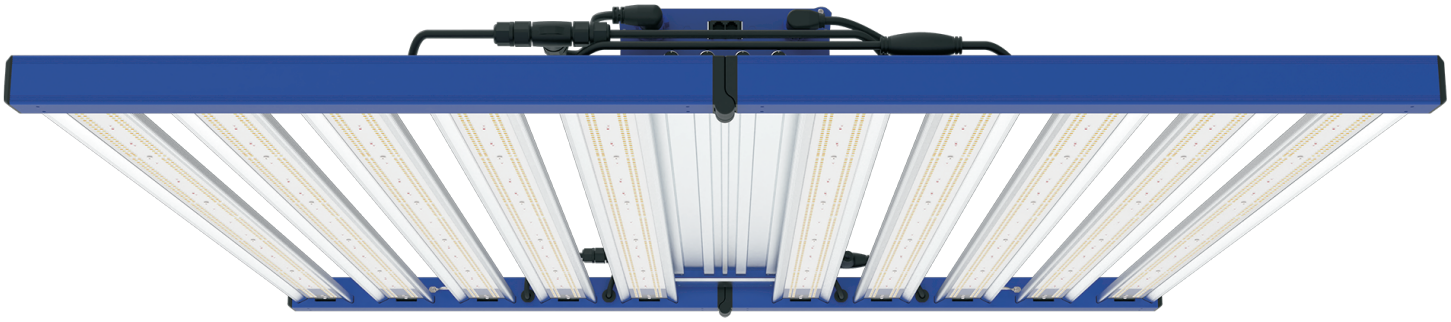
TARANTULA BORG

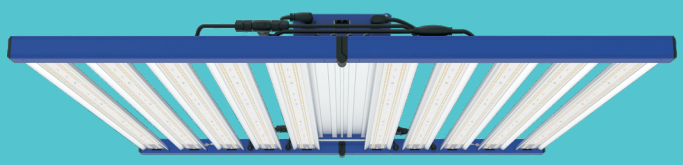


Intertek
5022589

RoHS

IP 66

GML SOLUTIONS LTD.
PO Box 423, Qualicum Beach, BC, V9K1S9, Canada
www.grandmasterleds.com



TARANTULA BORG

HIGH EFFICIENCY

POWER SAVING

ADJUSTABLE SPECTRUM

TARANTULA BORG

- Samsung LM301H+Samsung LM301H EVO Mint White
- Osram 450nm + Osram 660nm + Osram 730nm
- INVENTRONICS LED driver
- Knob dimming + RJ port dimming
- Folding design for fast and easy installation
- Adjustable Spectrum
- 5 year warranty
- IP 66 Waterproof

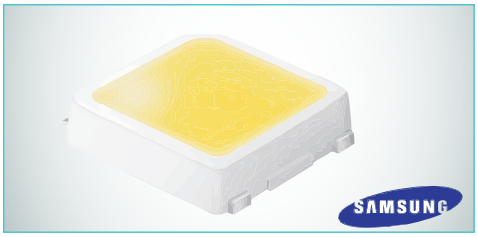
Specifications

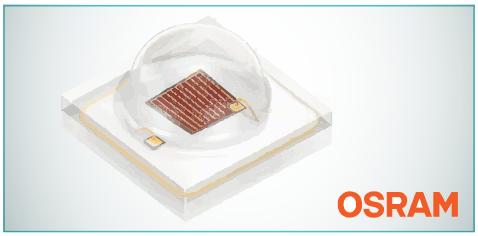
Model Name	Tarantula Borg		
Input Voltage	120 Vac	240 Vac	277 Vac
Max. Input Current	12.9 Amps	6.6 Amps	5.8 Amps
Power Factor	0.99	0.95	0.95
Wattage +/- 5%	1530W (612W+612W+204W+102W)	1500W (600W+600W+200W+100W)	1500W (600W+600W+200W+100W)
Qty. of Light Bars	10 Bars	10 Bars	10 Bars

LED Driver	Inventronics	Surge Protection	6KV
LED Brand	SAMSUNG & OSRAM	LED Configuration	6500K+Mint White+450nm &2200K&660nm&730nm
Dimming	Knob + RJ port	LED life time	>100,000 hours
Dimming	10%~100% DIM-TO-OFF	Power Cord Length	10' (3.05M)
IP Rate	IP 66	Max. Ambient Temp.	104 °F (40 °C)
Warranty	5 Year	Mounting Height	>36 "(Above Canopy)

Package	
Carton Size	122 x 87 x 16cm (48.03" x 34.25" x 6.30")
Weight	31 kg (68.34 lbs)
Qty. / Ctn.	1 Set

Details





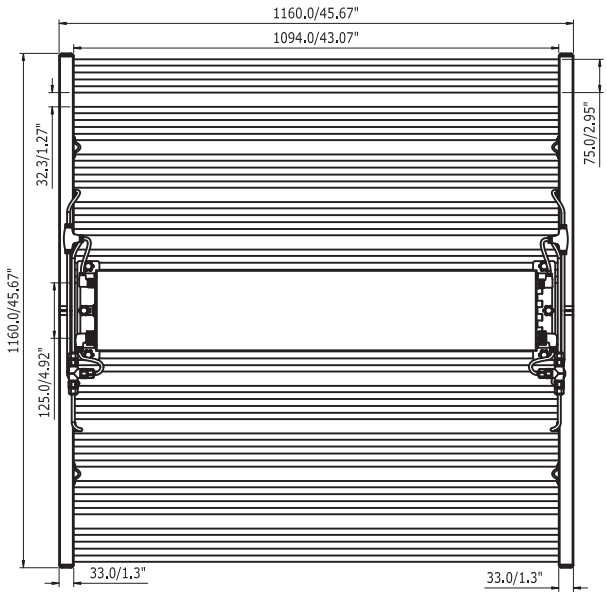
Plug

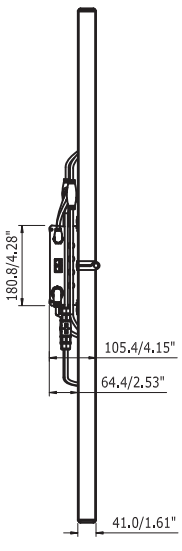
USA 120Vac (NEMA 5-15P)
Standard

USA 240Vac (NEMA 6-15P)
Optional

USA 277Vac (NEMA 7-15P)
Optional

Dimension & Weight

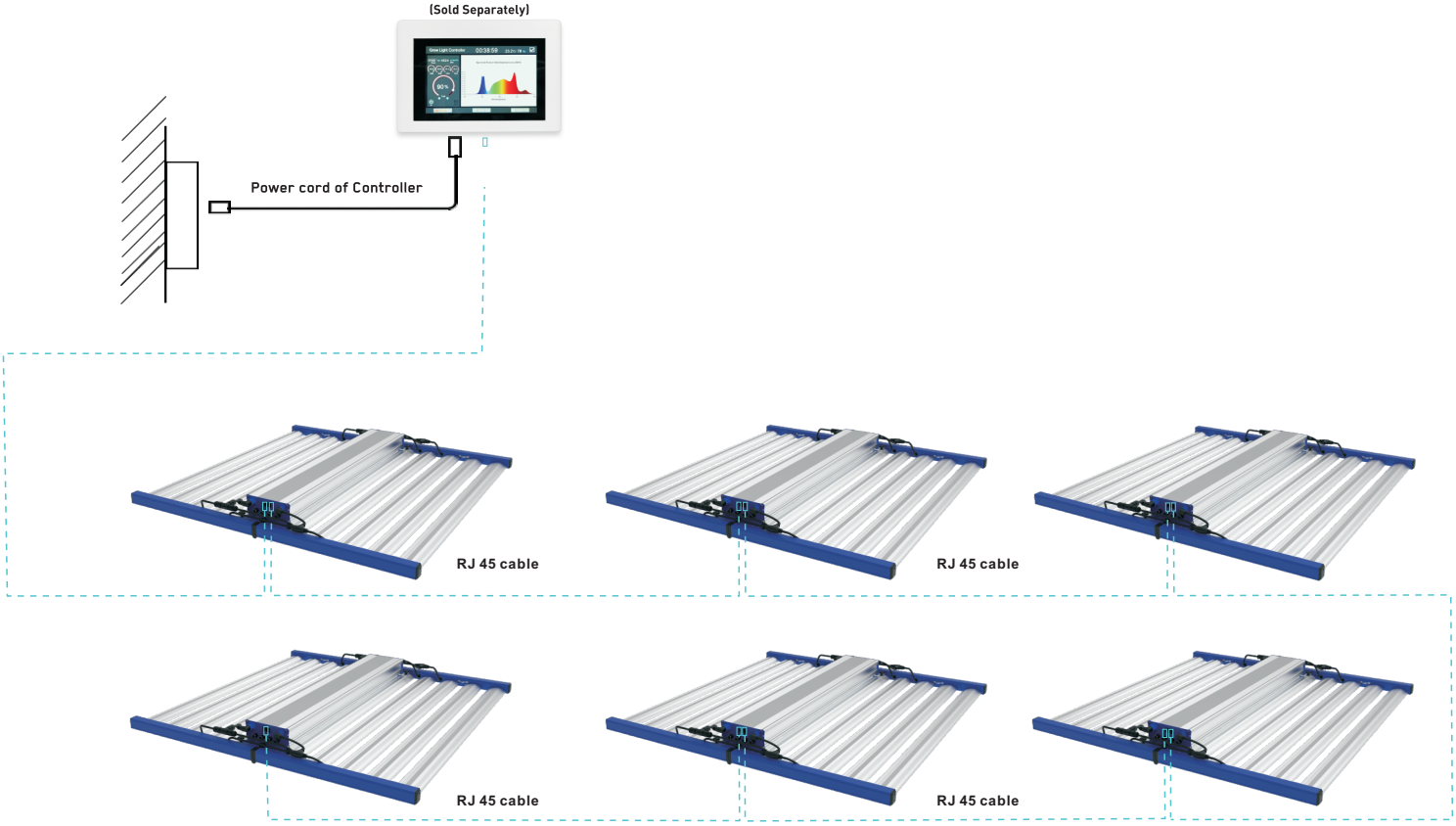




Fixture Dimension:
1160mm X 1160mm X 105.4mm
(45.67" X 45.67" X 4.15")

Fixture Net Weight:
27.85 kg (61.40 lbs) Including Driver box

Knob Dimming + RJ Port dimming 10%~100% DIM-TO-OFF

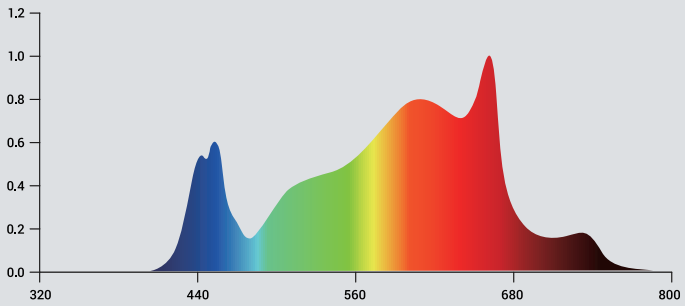


Control Signal input and output

Controller (RJ45)							
PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8
Dim2	N/A	Dim1	GND	GND	Dim4	N/A	Dim3
Fixture (INPUT) Side (RJ45)							
PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8
Dim2	N/A	Dim1	GND	GND	Dim4	N/A	Dim3
Fixture (OUTPUT) Side (RJ45)							
PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8
Dim2	N/A	Dim1	GND	GND	Dim4	N/A	Dim3

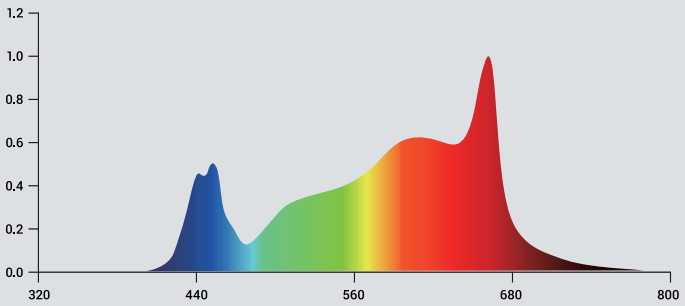
Spectrum Possibilities (SPD)

#1



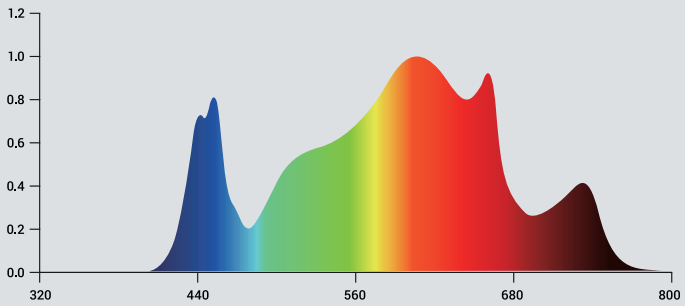
970W 40CW/100WW/R35/Fr35 13.3%B/33.4%G/46%R/7.3%Fr

#2



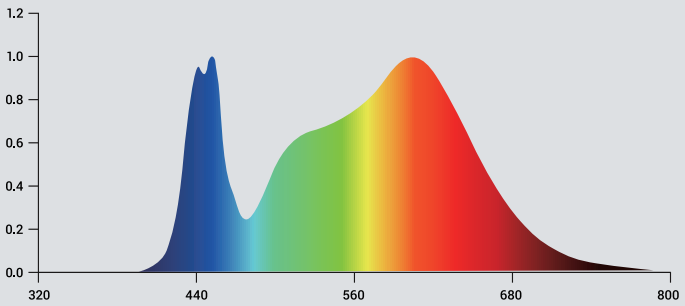
1000W 45CW/100WW/R55/Fr0 13.9%B/33.4%G/49.5%R/3.3%Fr

#3



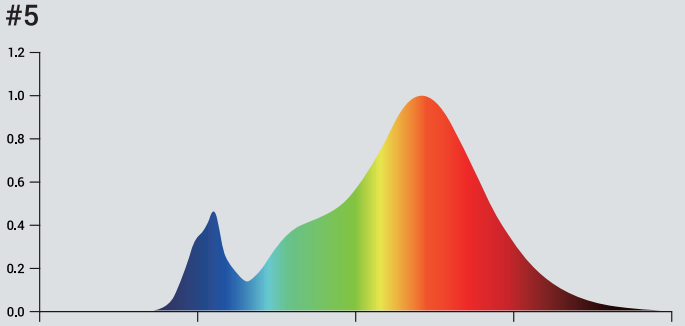
1030W 45CW/100WW/R20/Fr100 13.9%B/33.3%G/40.7%R/12.1%Fr

#4



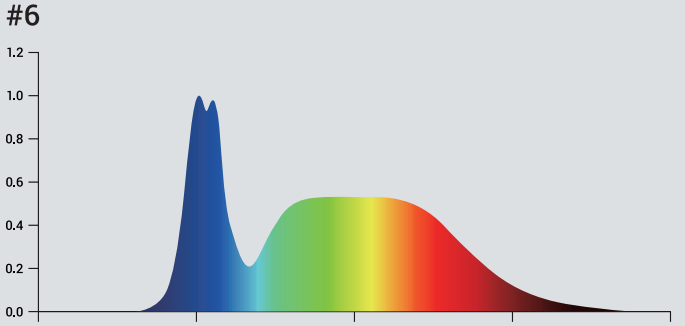
1030W 65CW/100WW/R0/Fr0 19.2%B/40.1%G/37.3%R/3.4%Fr

#5



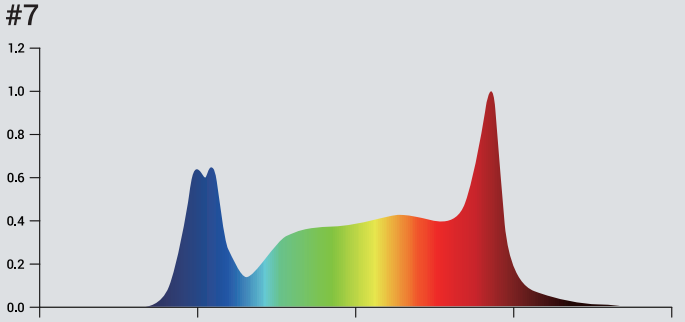
710W 18CW/100WW/R0/Fr0 10.7%B/37.5%G/47.3%R/4.6%Fr

#6



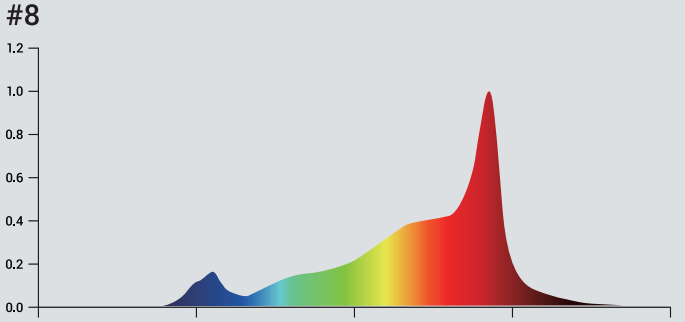
795W 100CW/30WW/R0/Fr0 29.1%B/43.3%G/25.6%R/2.1%Fr

#7



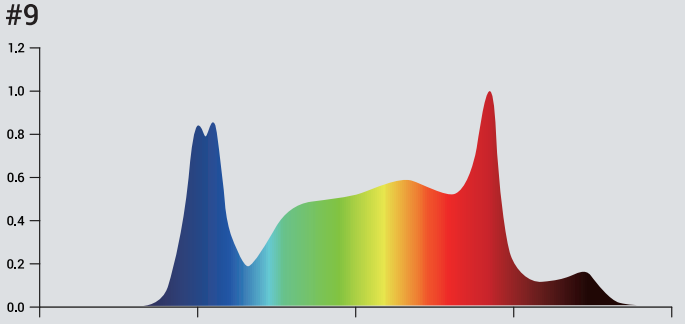
1160W 100CW/55WW/R100/Fr0 20%B/33.3%G/44.6%R/2.2%Fr

#8



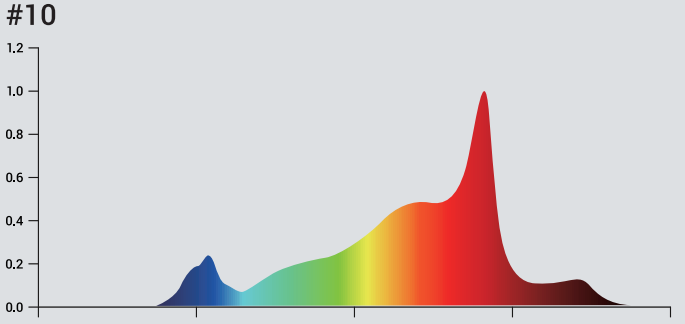
890W 15CW/100WW/R100/Fr0 7.2%B/26.8%G/62.7%R/3.5%Fr

#9



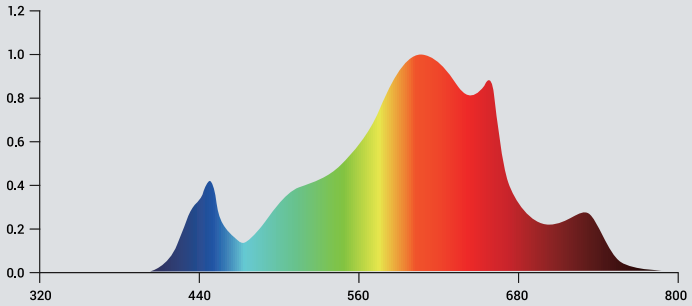
970W 75CW/50WW/R50/Fr40 20.1%B/34.2%G/39.3%R/6.5%Fr

#10



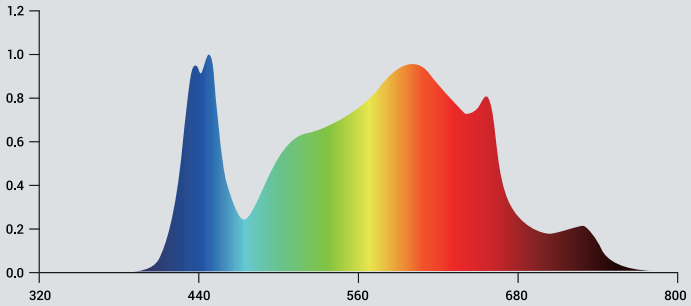
920W 20CW/100WW/R70/Fr40 8.3%B/27.8%G/56%R/8%Fr

#11



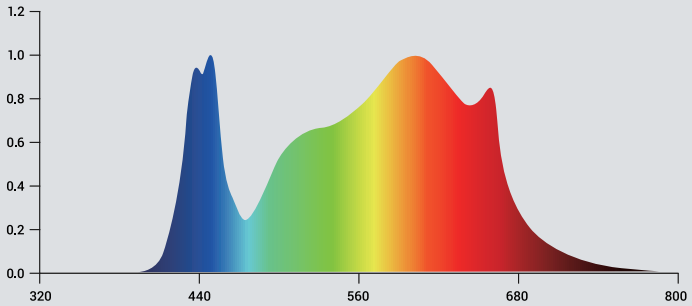
765W 15CW/100WW/R15/Fr40 8.8%B/32.8%G/48.6%R/10%Fr

#12



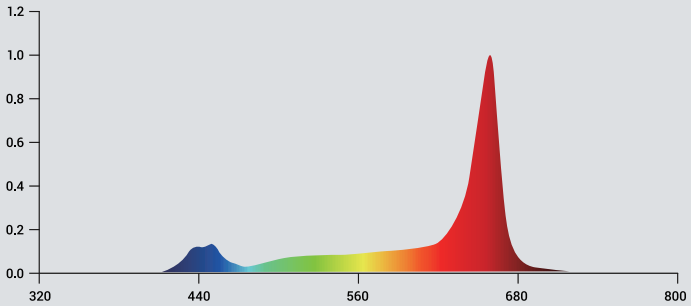
1140W 70CW/100WW/R20/Fr40 18%B/36.7%G/38.5%R/6.8%Fr

#13



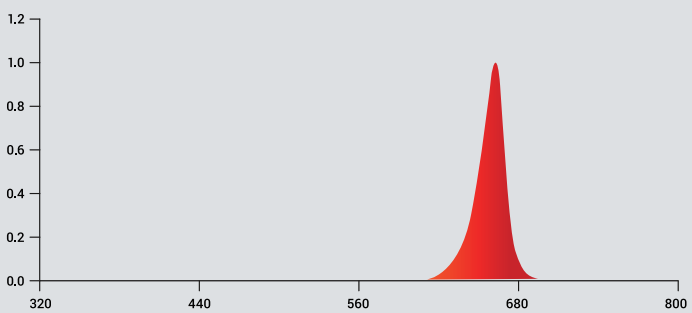
1070W 65CW/100WW/R20/Fr0 18.2%B/38%G/40.5%R/3.3%Fr

#14



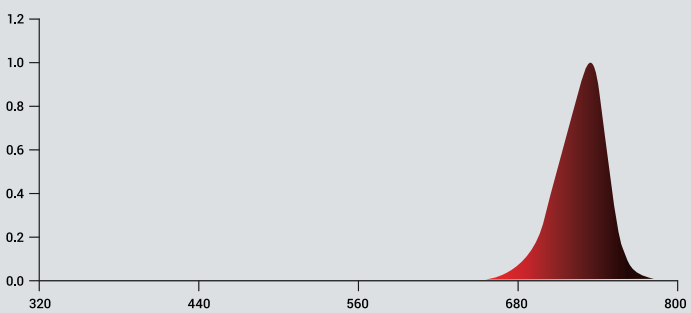
400W 16CW/16WW/R100/Fr0 9.3%B/17.8%G/71.3%R/1.6%Fr

#15



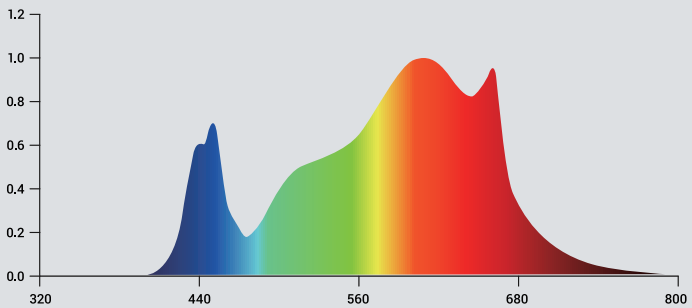
200W 0CW/0WW/R100/Fr0 0%B/0.2%G/99.5%R/0.3%Fr

#16



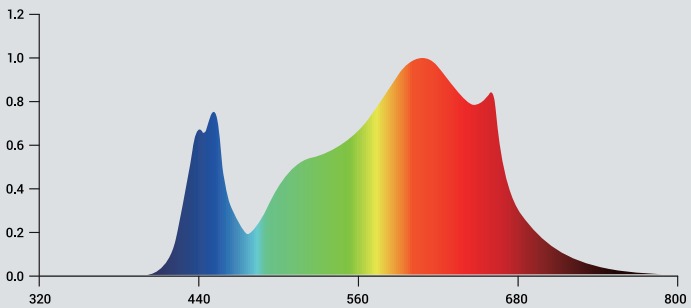
100W 0CW/0WW/R0/Fr100 0%B/0%G/9.1%R/90.9%Fr

#17



870W 35CW/100WW/R20/Fr0 13.7%B/36.3%G/46.4%R/3.8%Fr

#18



890W 40CW/100WW/R16/Fr0 14.8%B/37.1%G/44.5%R/3.7%F

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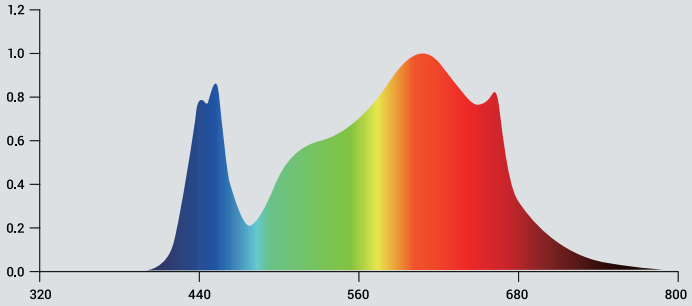
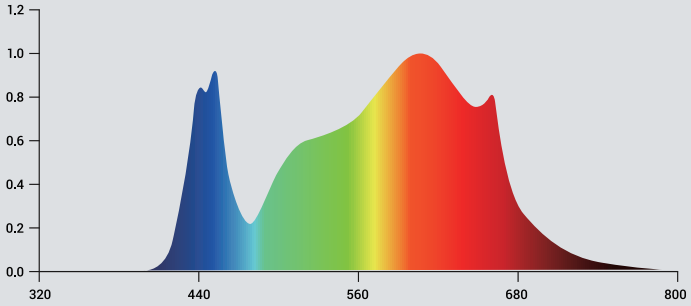


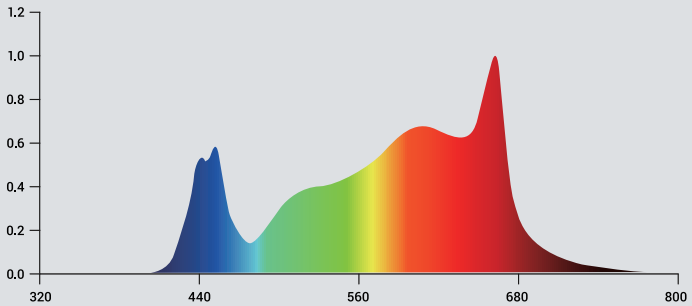
960W 50CW/100WW/R16/Fr0 16.4%B/37.7%G/42.4%R/3.5%Fr

#20



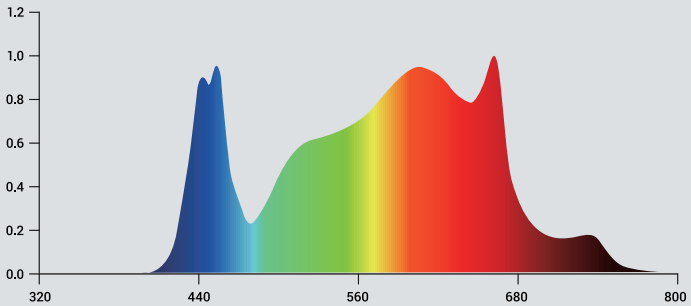
990W 55CW/100WW/R16/Fr0 17.1%B/38%G/41.5%R/3.4%Fr

#21



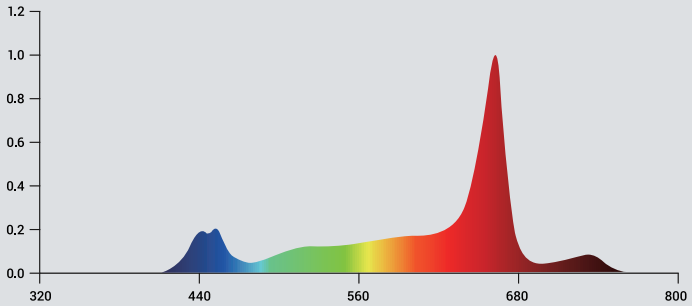
1025W 50CW/100WW/R50/Fr0 14.9%B/34.3%G/47.7%R/3.2%Fr

#22



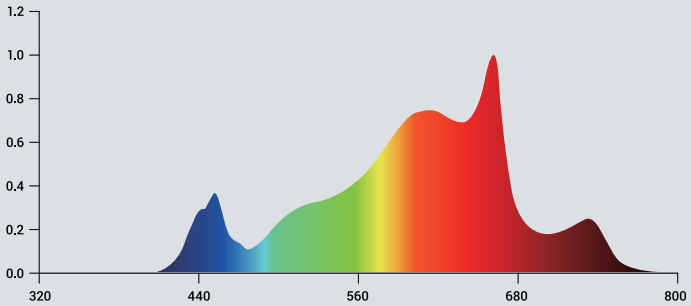
1120W 65CW/100WW/R30/Fr30 17.2%B/35.9%G/41%R/6%Fr

#23



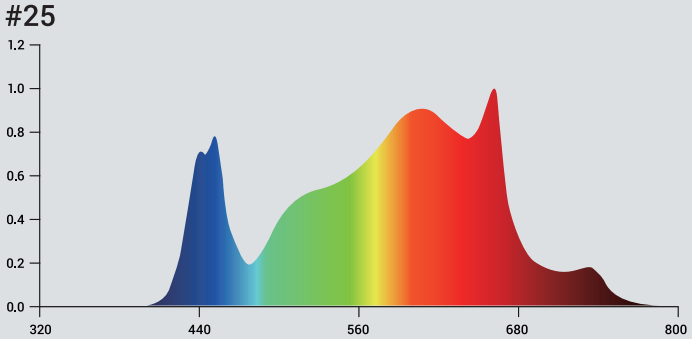
545W 25CW/25WW/R100/Fr30 11.3%B/21.5%G/60.1%R/7.2%Fr

#24



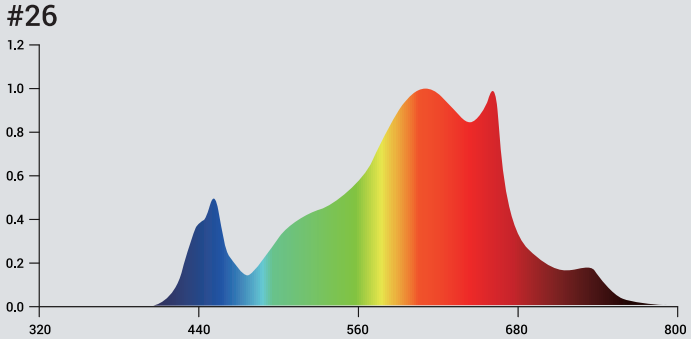
860W 20CW/100WW/R35/Fr55 9.1%B/30.5%G/49.9%R/10.5%Fr

#25



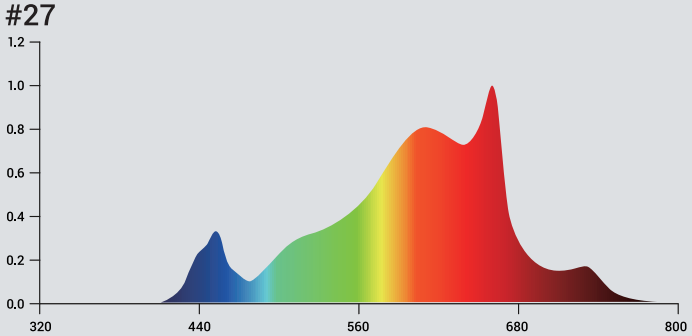
1020W 50CW/100WW/R30/Fr30 15.2%B/34.9%G/43.5%R/6.5%Fr

#26



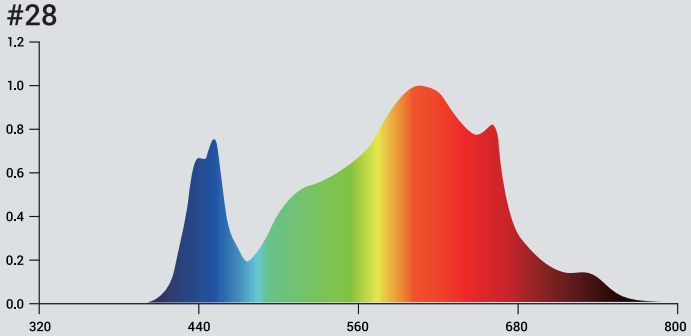
790W 20CW/100WW/R20/Fr20 10.1%B/33.7%G/49.2%R/7%Fr

#27



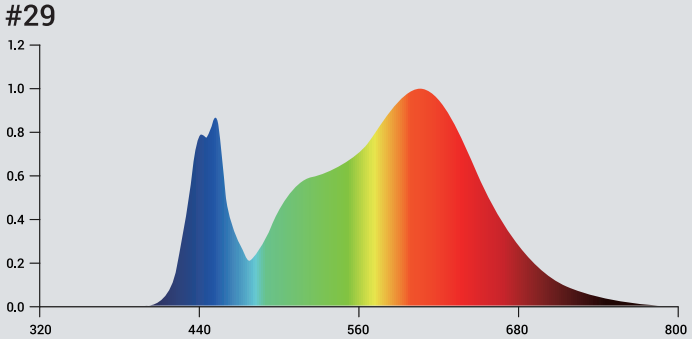
780W 15CW/100WW/R30/Fr25 8.4%B/31.6%G/52.3%R/7.7%Fr

#28



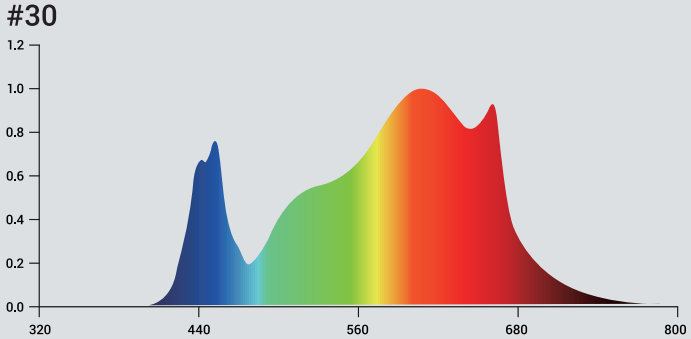
900W 40CW/100WW/R15/Fr15 14.6%B/36.4%G/43.5%R/5.7%Fr

#29



920W 50CW/100WW/R0/Fr0 17.2%B/39.5%G/39.7%R/3.7%Fr

#30



900W 40CW/100WW/R20/Fr0 14.6%B/36.6%G/45.2%R/3.7%Fr

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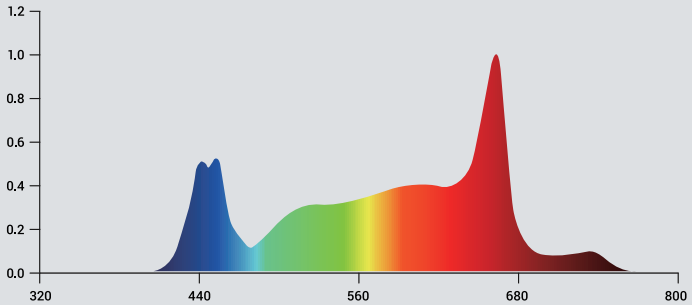
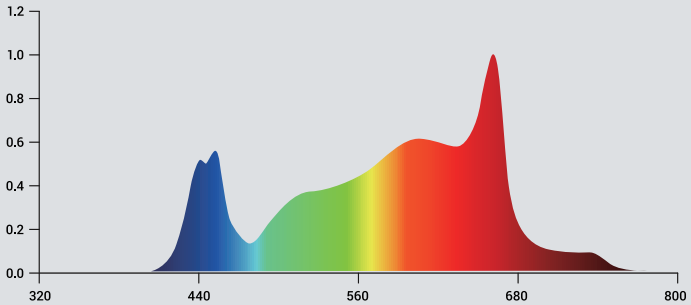


1090W 70CW/60WW/R100/Fr35 16.9%B/30.8%G/46.8%R/5.6%Fr

#32



1110W 55CW/100WW/R60/Fr20 14.9%B/33%G/47.2%R/5.1%Fr

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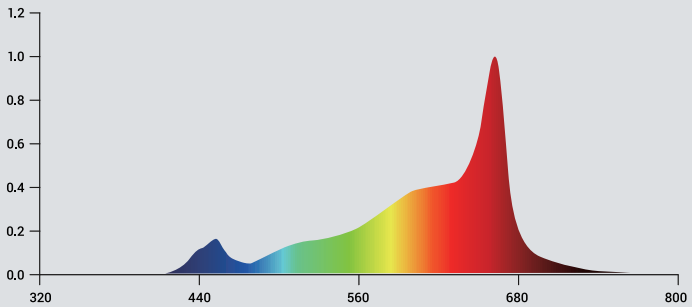

890W 15CW/100WW/R100/Fr0 7.1%B/26.8%G/62.7%R/3.5%Fr

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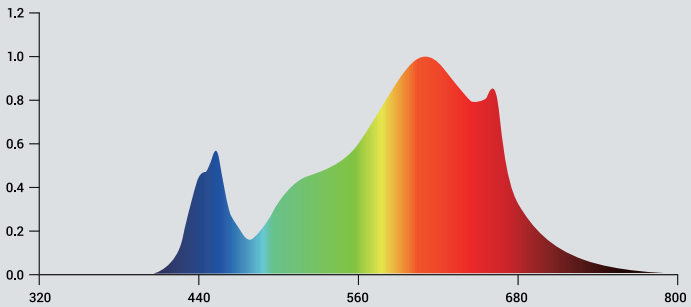
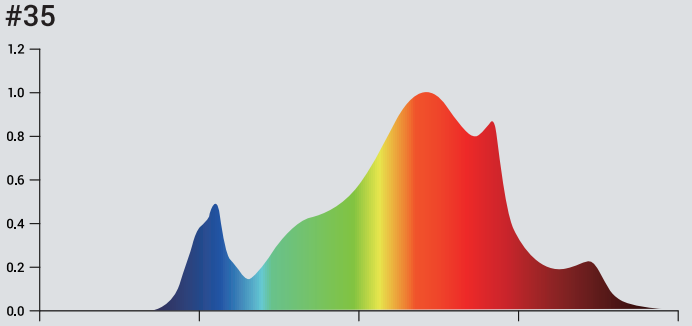


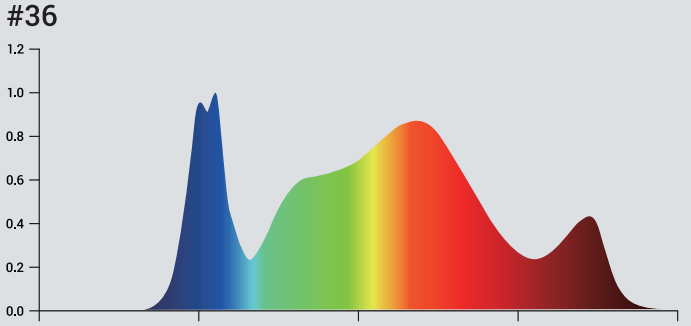
790W 25CW/100WW/R15/Fr0 11.9%B/36%G/48.1%R/4.1%Fr

#35



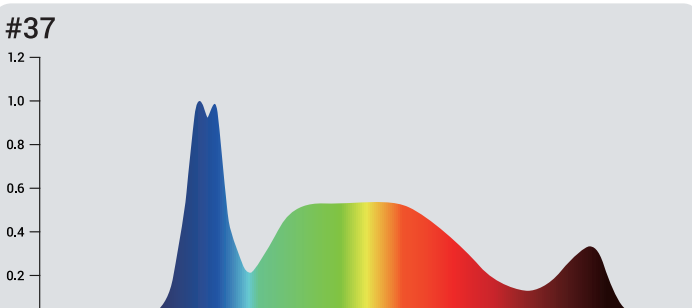
790W 20CW/100WW/R15/Fr30 10.2%B/33.9%G/47.6%R/8.4%Fr

#36



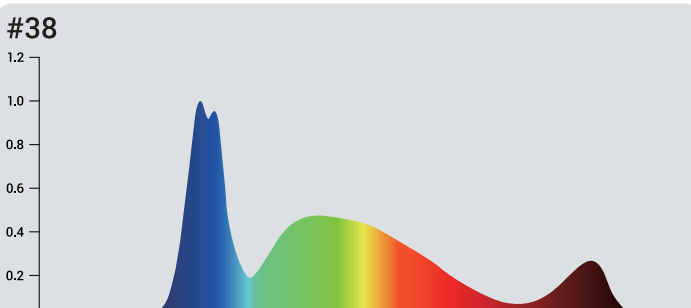
1030W 50CW/100WW/R0/Fr100 15.5%B/35.6%G/36.6%R/12.4%Fr

#37



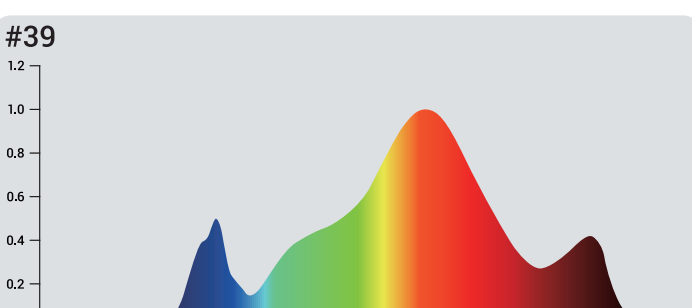
760W 75CW/25WW/R0/Fr100 25.4%B/37.7%G/23.4%R/13.6%Fr

#38



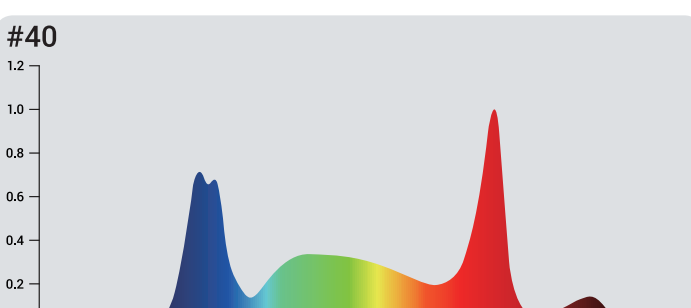
700W 100CW/0WW/R0/Fr100 31.1%B/39.3%G/16.2%R/13.5%Fr

#39



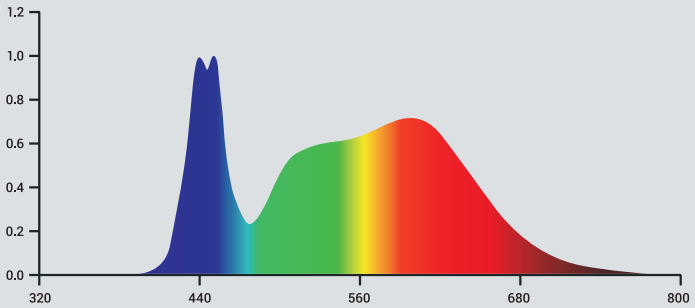
815W 20CW/100WW/R0/Fr80 10%B/33.3%G/42.3%R/14.5%Fr

#40



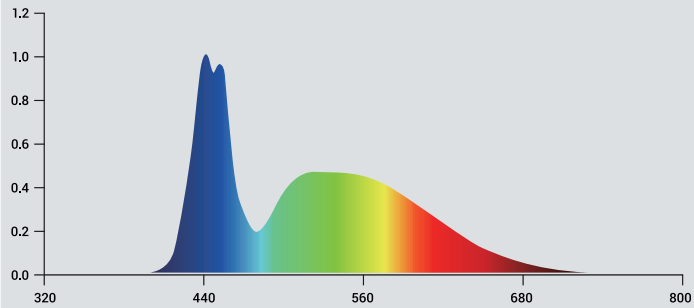
870W 100CW/0WW/R100/Fr60 23.8%B/30.1%G/38.6%R/7.4%Fr

#41



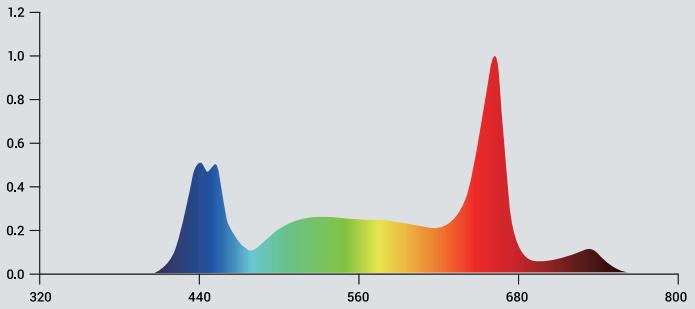
1040W 100CW/65WW/R0/Fr0 24%B/41.6%G/31.6%R/2.8%Fr

#42



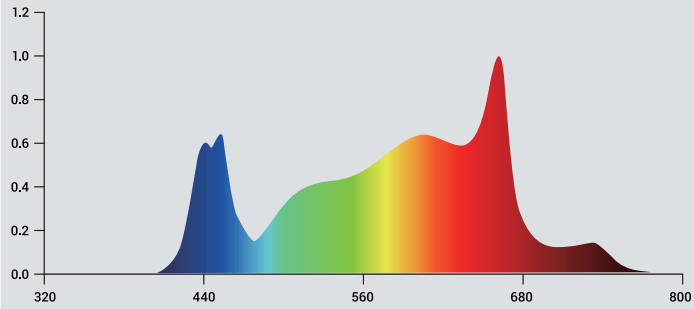
600W 100CW/0WW/R0/Fr0 36.2%B/45.4%G/17.3%R/1.2%Fr

#43



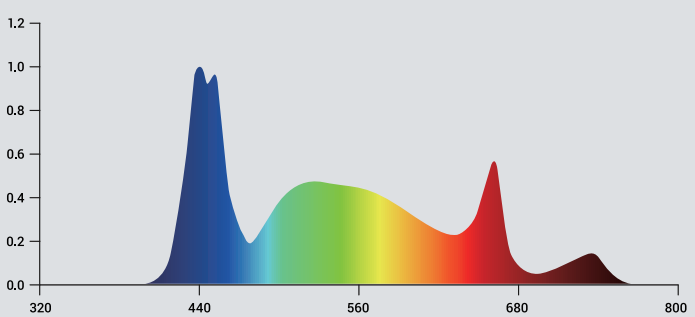
770W 65CW/15WW/R100/Fr45 19.9%B/28.1%G/45.1%R/6.9%Fr

#44



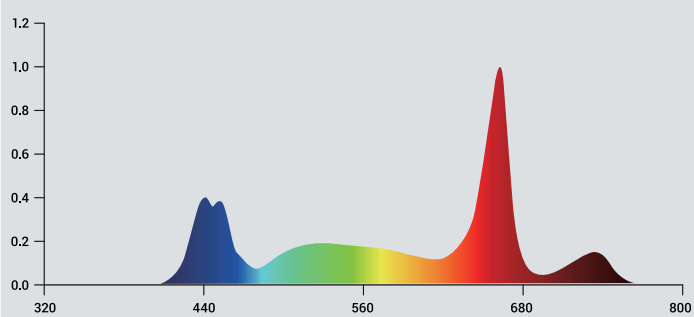
1200W 65CW/100WW/R60/Fr40 15.8%B/33.1%G/44.8%R/6.4%Fr

#45



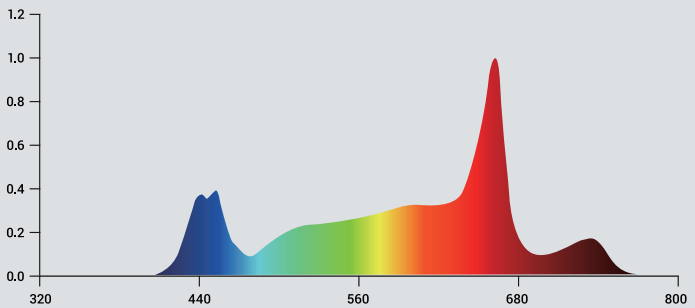
710W 100CW/0WW/R30/Fr40 29.8%B/37.7%G/25.9%R/6.7%Fr

#46



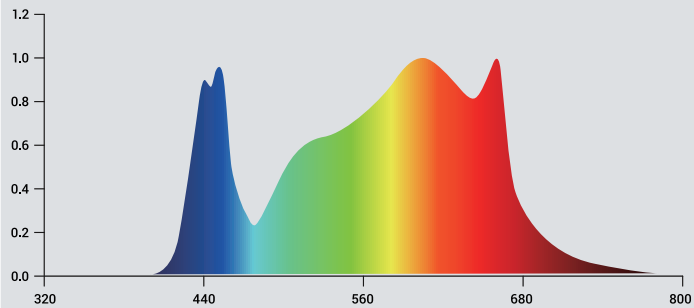
595W 50CW/0WW/R100/Fr65 18.5%B/23.5%G/47.3%R/10.7%Fr

#47



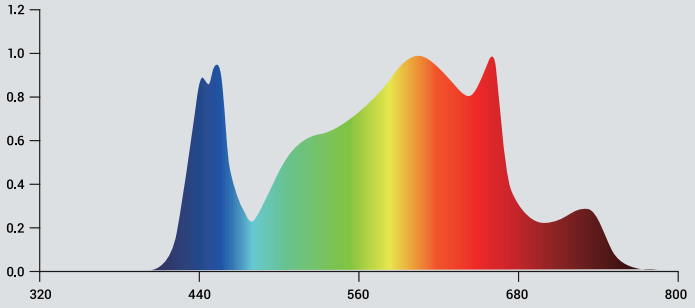
940W 50CW/50WW/R100/Fr80 14.2%B/27%G/48.7%R/10.2%Fr

#48



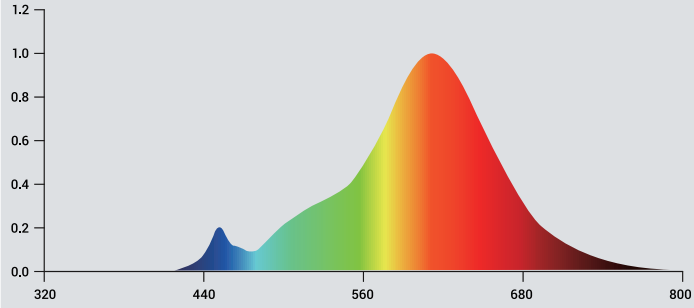
1050W 60CW/100WW/R25/Fr0 17.3%B/37.1%G/42.4%R/3.3%Fr

#49



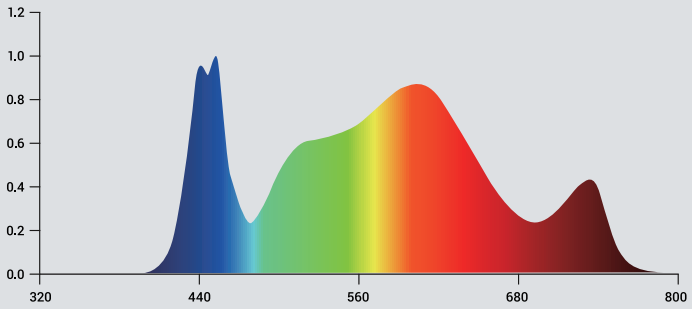
1100W 60CW/100WW/R25/Fr60 16.3%B/34.8%G/40.3%R/8.7%Fr

#50



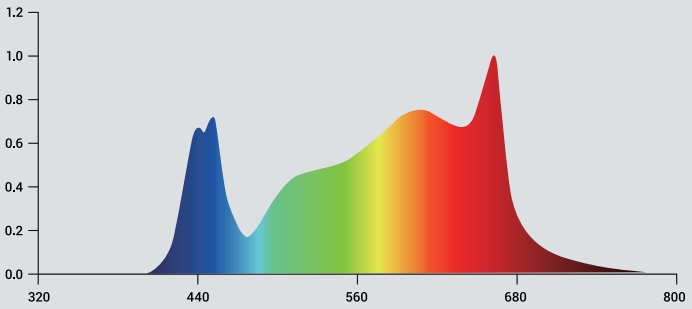
600W 0CW/100WW/R0/Fr0 5.5%B/35.7%G/53.6%R/5.3%Fr

#51



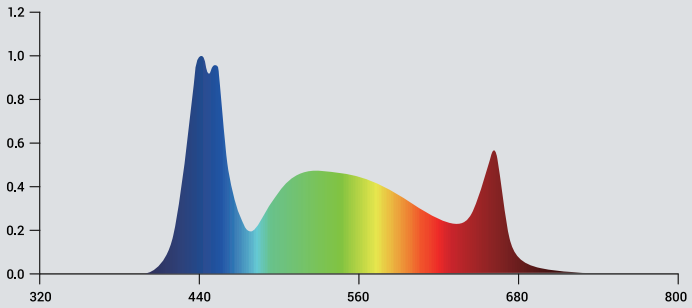
855W 55CW/60WW/R0/Fr100 18.5%B/35.9%G/32.3%R/13.4%Fr

#52



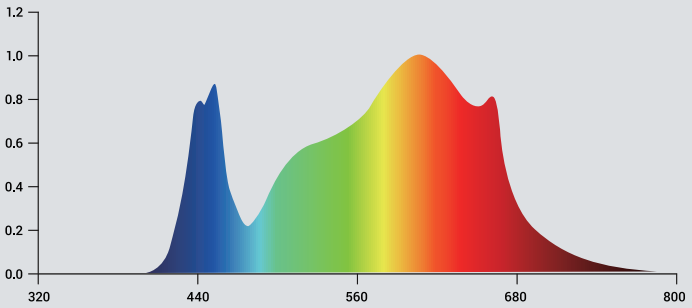
1090W 60CW/100WW/R45/Fr0 16.5%B/35.4%G/45%R/3.1%Fr

#53



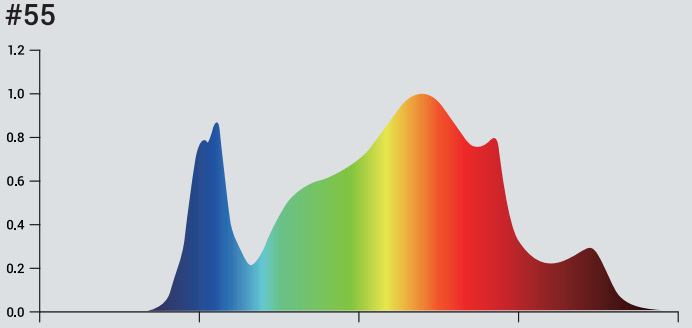
665W 100CW/0WW/R30/Fr0 31.8%B/40.2%G/27%R/1.1%Fr

#54



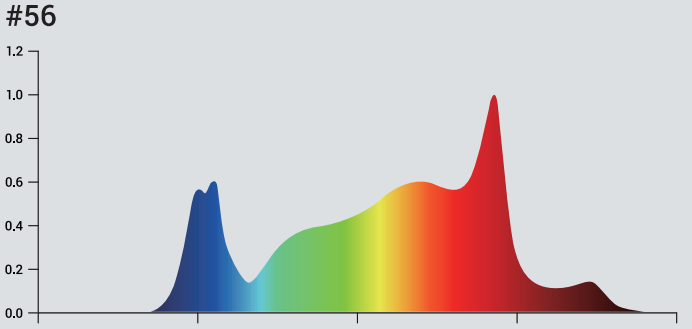
960W 50CW/100WW/R16/Fr0 16.4%B/37.7%G/42.3%R/3.5%Fr

#55



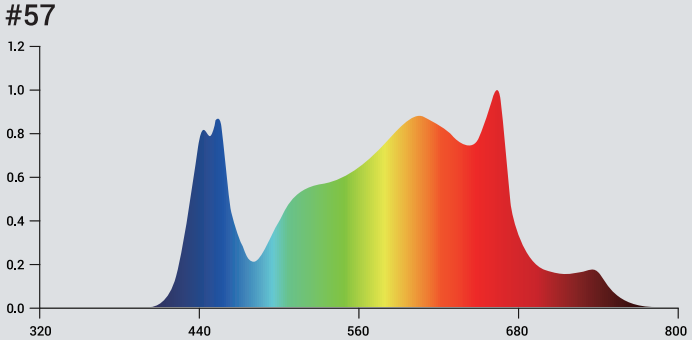
1015W 50CW/100WW/R15/Fr55 15.5%B/35.4%G/40.1%R/9.1%Fr

#56



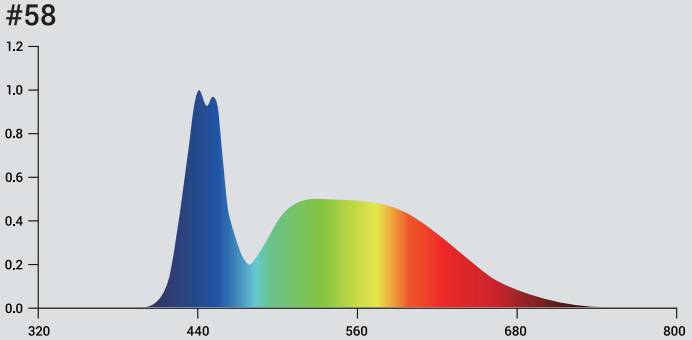
1220W 65CW/100WW/R65/Fr40 15.6%B/32.5%G/45.2%R/6.7%Fr

#57



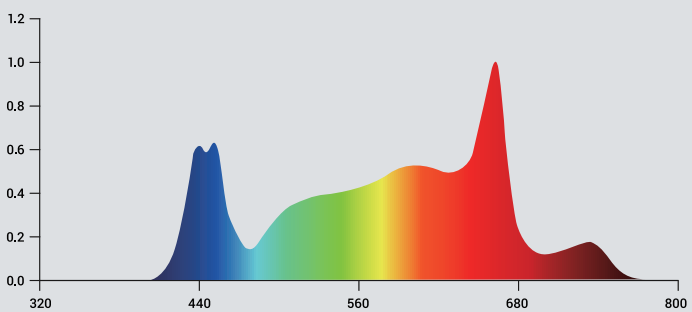
1120W 60CW/100WW/R35/Fr35 16.7%B/35%G/41.9%R/6.4%Fr

#58



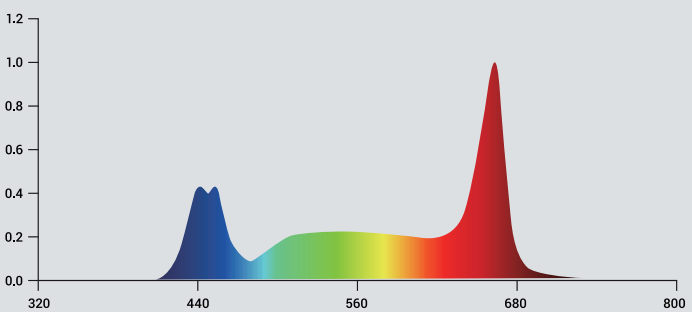
720W 100CW/15WW/R0/Fr0 31.7%B/44%G/22.6%R/1.8%Fr

#59



1500W 100CW/100WW/R100/Fr100 16.8%B/31.4%G/43.4%R/8.4%Fr

#60



650W 55CW/15WW/R100/Fr0 19.7%B/28.5%G/50.6%R/1.3%Fr

Spectrum Number	Corresponding GML Model Name
#6	Master 6V; Master 4V
#15	Tarantula Booster 660nm Bar
#16	Tarantula Booster 730nm Bar
#48	Tarantula Long Leg (2nd channel off)
#49	Tarantula Long Leg (all channels at 100%)
#50	Tarantula Booster 2200K Bar
#51	Tarantula Leafy Green Bar
#52	Master 6B; Tarantula Veggie Bar
#53	Tarantula Reproduction Bar
#54	Tarantula Vulcan Nitro (2nd channel off)
#55	Tarantula Vulcan Nitro (all channels at 100%)
#56	Master 6 Bloom Red; Master 320R; Master 150R
#57	Tarantula Tent Ultimate; Tarantula Torch 730; Tarantula Torch 480; Tarantula Torch 320
#58	Tarantula Booster 8000K Bar
#59	Tarantula Borg (all channels at 100%)
#60	Tarantula Greenhouse

Safety Warnings and Recommendations

Warning! Carefully read the warnings below before using or working with the product!

Always adhere to the local rules and regulations when installing or using the LED fixture.

Do not open or disassemble the LED fixture, it contains no serviceable parts inside. Opening or modifying the LED fixture can be dangerous and will void the warranty.

Wearing protective gloves and glasses is recommended during installation.

Do not use the LED fixture when either the LED fixture has been dropped or is damaged or its power cord is damaged.

Replace the power cord only with original certified cords. Keep the power cord away from hot surfaces.

Modifications to the cords can lead to unwanted electromagnetic effects, which makes the product not comply with legal requirements.

Do not plug the LED fixture into a supply voltage other than what is instructed on the fixture.

Always disconnect the LED fixture from mains before performing any maintenance.

The LED lighting product is extremely bright. Do not stare directly into any of the lights.

The LED fixture will get hot during operation. Do not touch when the light is on. Keep the LED fixture away from children.

Always allow for a cool down period of at least 30 min. before touching the LED rails. Touching the LED rails when the fixture is lit or immediately afterwards can result in severe burns!

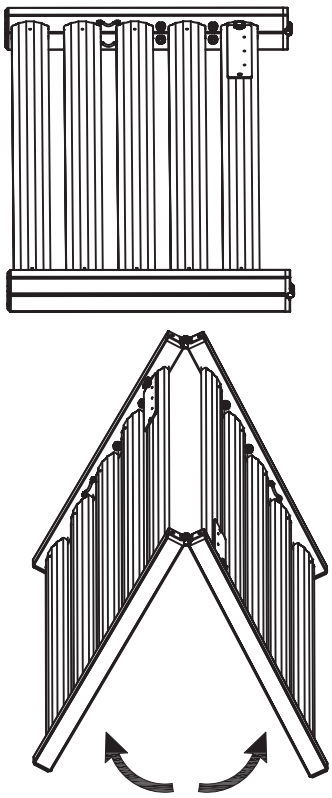
Do not expose the LED fixture to:
(ambient) temperatures outside the specified range;
dust and contamination;
direct sunlight during use or HID light that could heat up the ballast.

Do not use the LED fixture near flammable, explosive or reactive substances. Do not use sulfur vaporizers or water misters.

The installation and use of the LED fixture are the responsibility of the end user. Incorrect use or installation can lead to failure and damage to the LED fixture. Damage to the LED fixture and electronic circuitry because of incorrect installation and use will void the warranty.

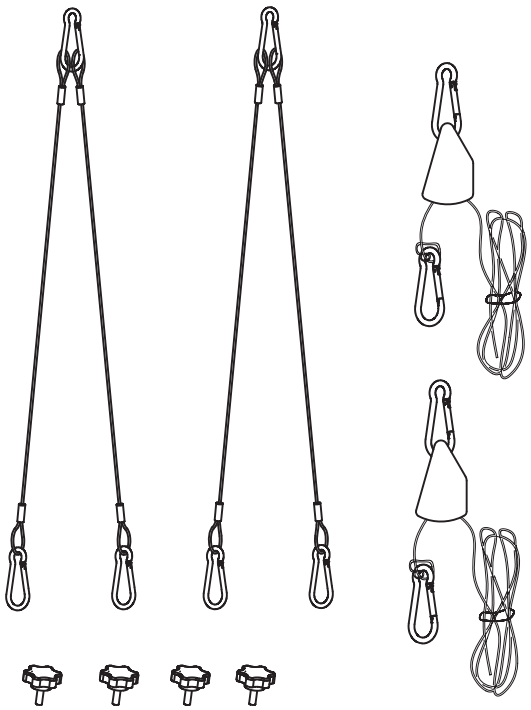
Installation Instruction

1



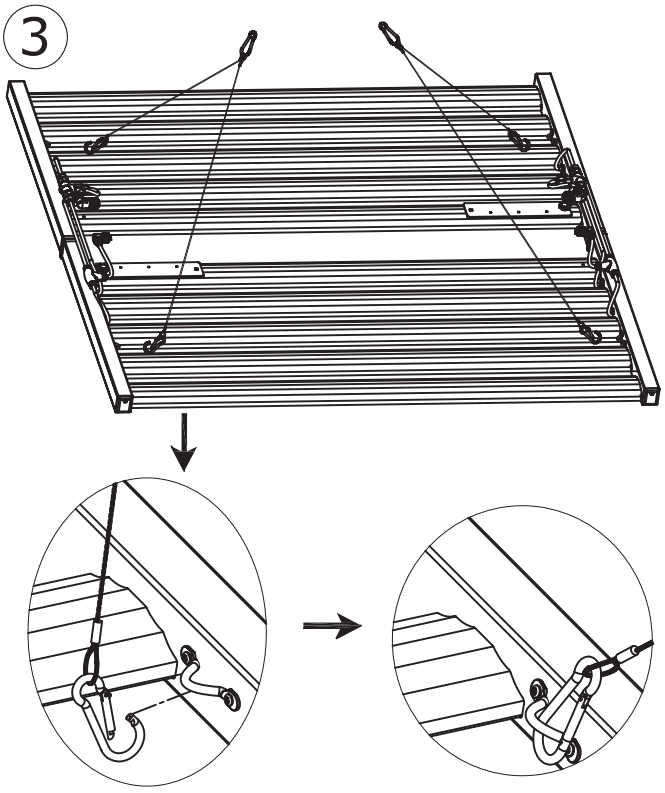
Unfold the LED fixture.

2



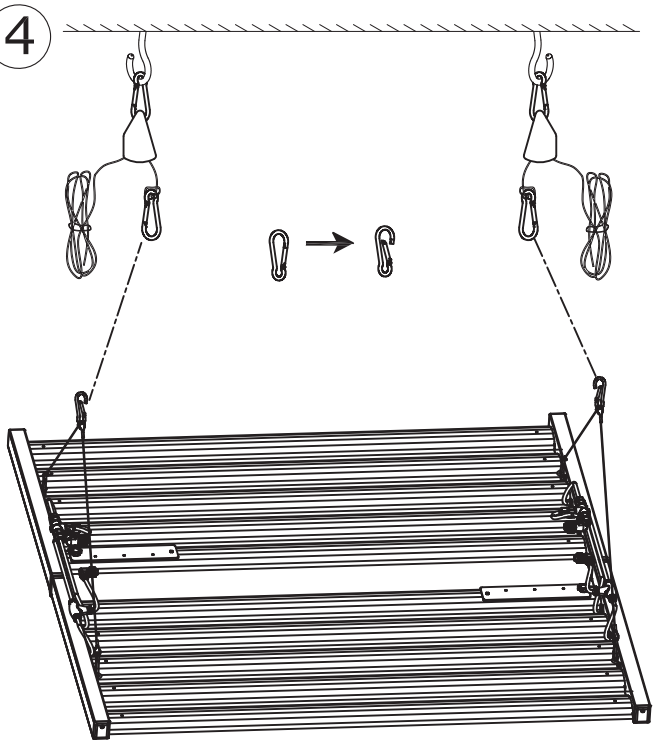
Take out the accessories from their bags.

3



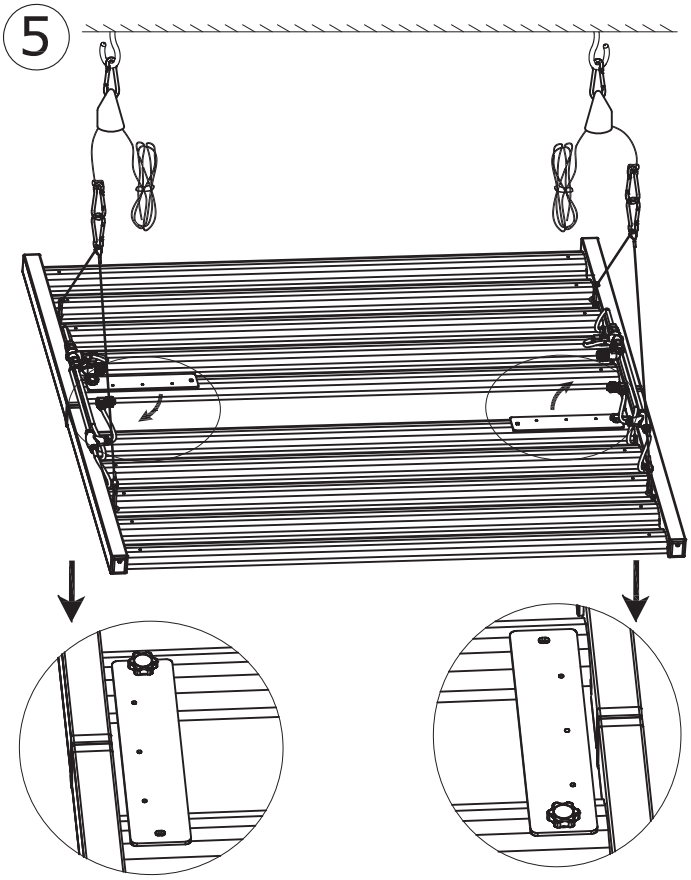
Connect carabiner hooks with mounting rings (on fixture frame).

4



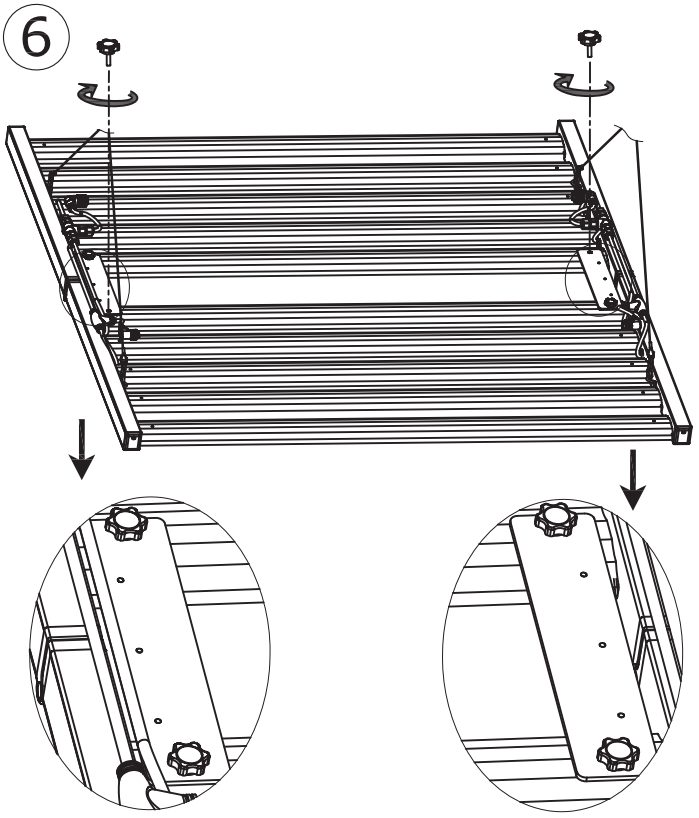
Attach steel ropes to adjustable ratchet hangers.

5



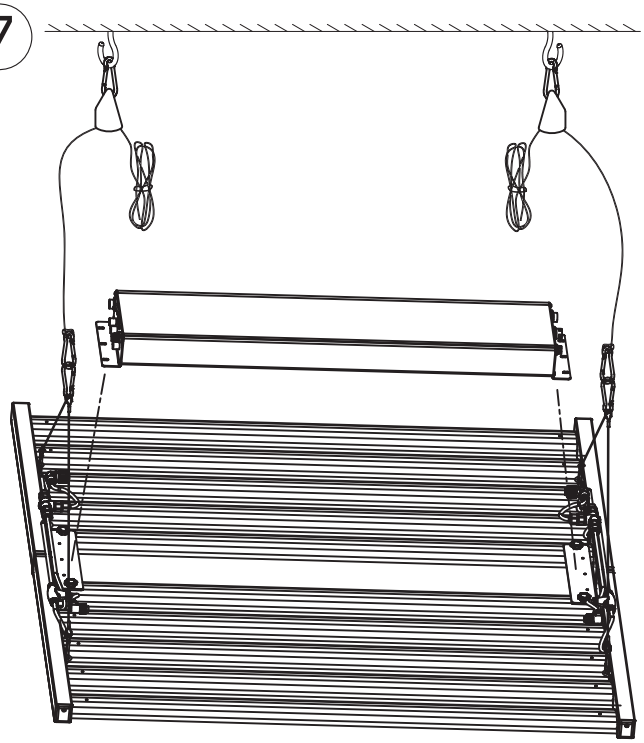
Turn these 2 brackets by 90 degrees.

6



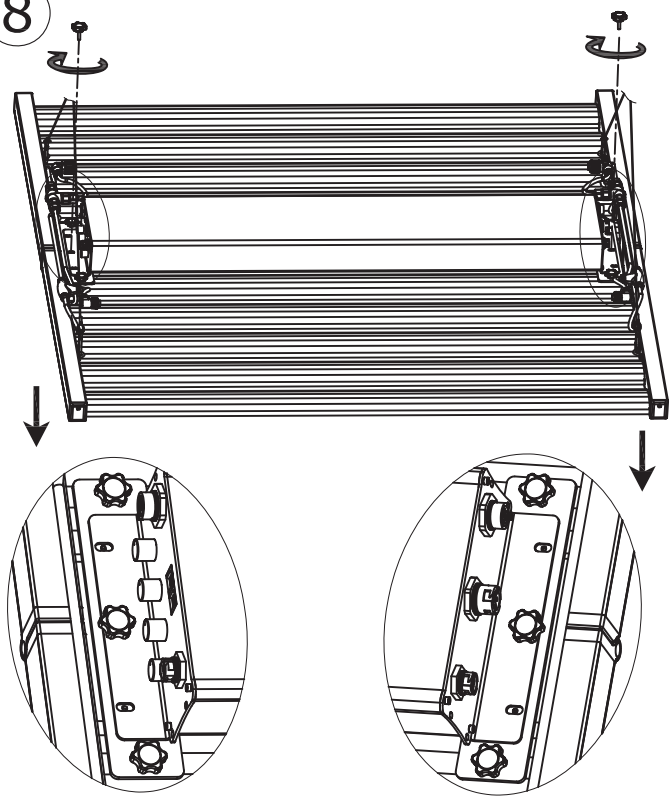
Use 2 additional knob screws to fix these 2 brackets.

7



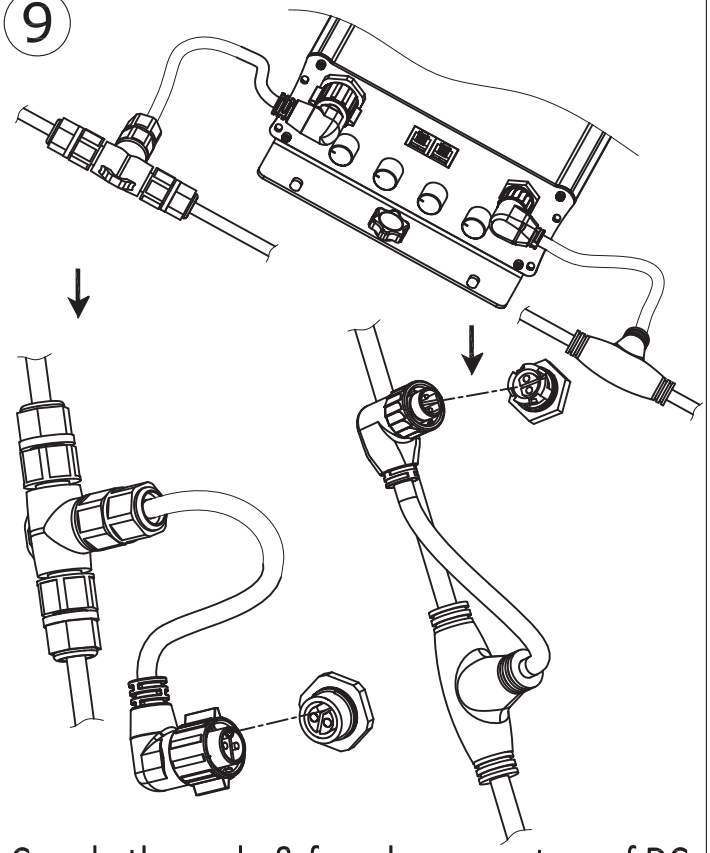
Place the LED driver box onto the LED fixture.

8



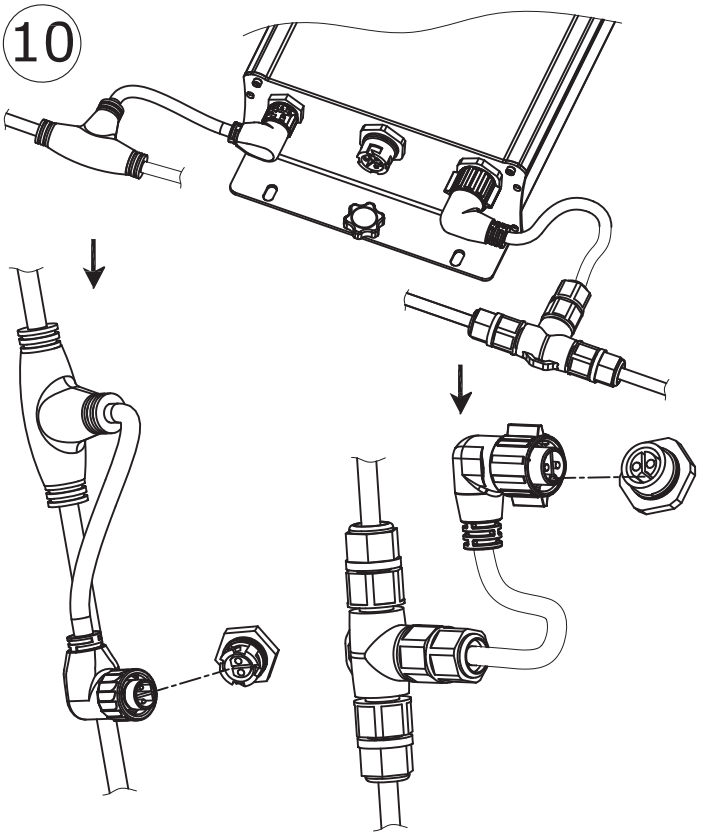
Fix the LED driver box with the knob screws.

9



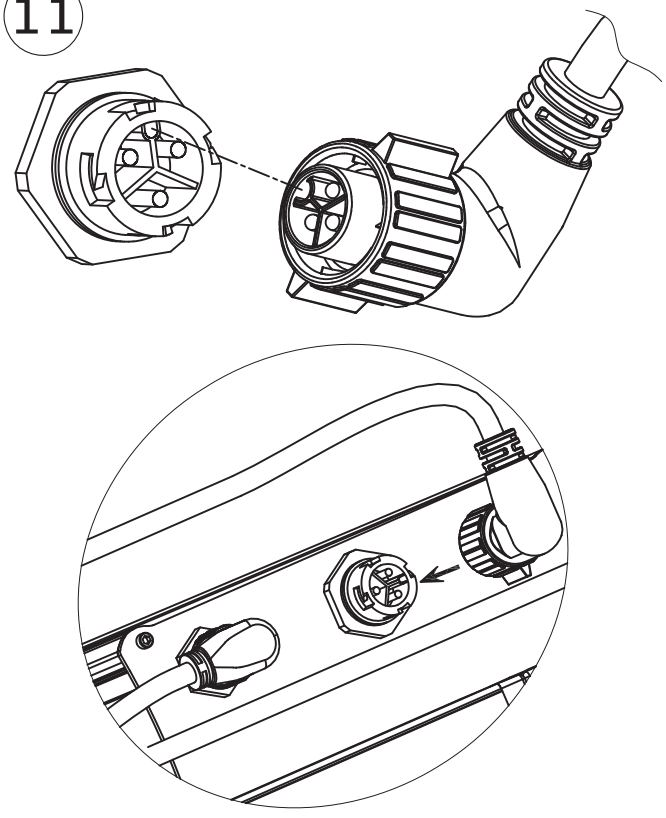
Couple the male & female connectors of DC cables at one end of the driver box.

10



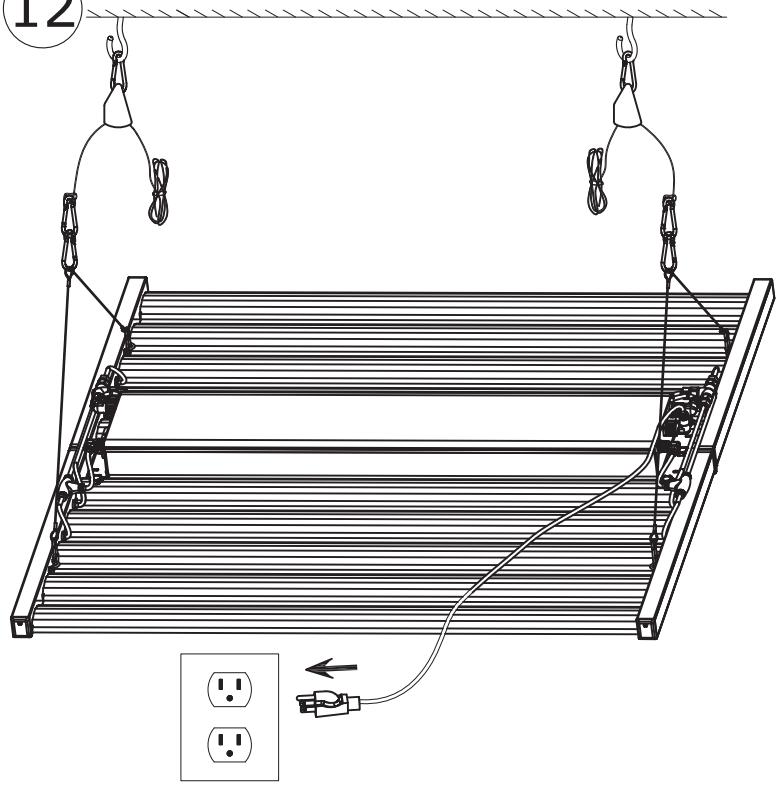
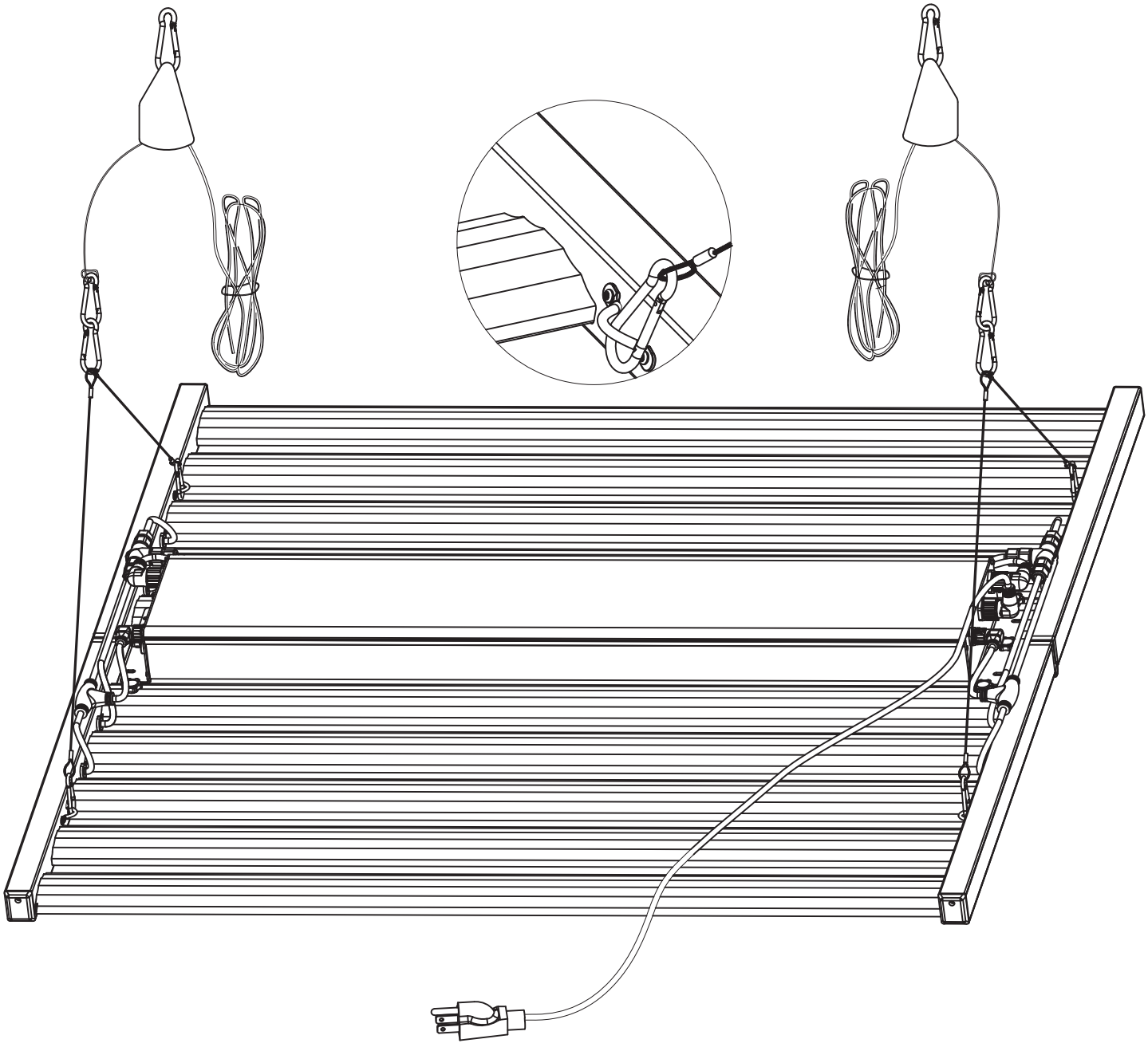
Couple the male & female connectors of DC cables at the other end of the driver box.

11



Push the connector of the AC power cord into the connector of driver AC INPUT.

12



Connector the AC power plug into the mains (wall outlet).