



NAME:LED GROW LIGHTS

Note:

"LKNG"= Company name

"GL02"= Product series, LED grow lights

"480W"= Rating Power

"N"= Driver manufacturer

"X"= LED manufactory, could be any alphabet

"A1" = Version number

"a" = color of luminaire, BH stands for black,SH stands for silver

"b"=spectrum, which can be any two letters, FS is full spectrum, is is indoor spectrum, Di is customized indoor spectrum and GS is greenhouse spectrum;

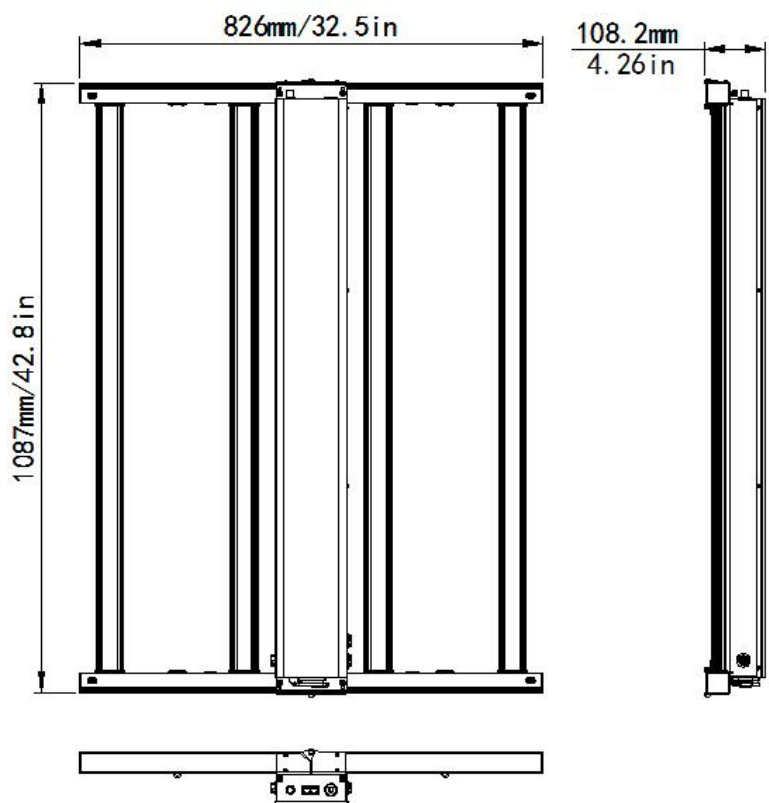
Advantage

- Input voltage 120-277VAC.
- No UV or IR in the beam.
- Output constant current lever can be adjusted through output cable with 0-10V.
- Easy to install and operate.
- Energy saving, long lifespan.
- Light is soft and uniform, safe to eyes.
- Instant start, NO flickering, NO humming.
- Can be connected in parallel 4 according to customer requirements
- Green and eco-friendly without mercury.

Application

- Green House;
- Vertical Farming;
- Marijuana Cultivation;

DIMENSIONS

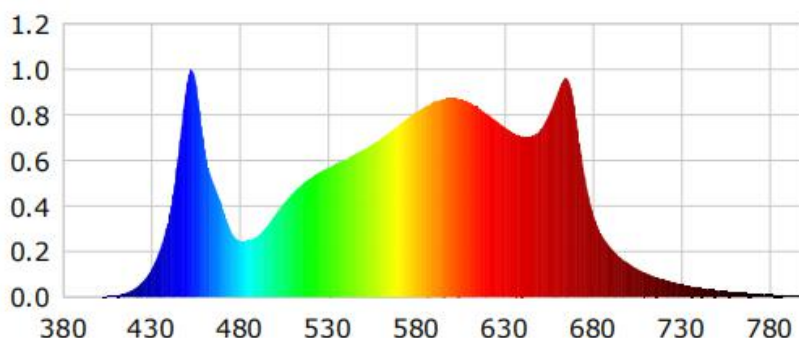


Specifications

Optical		
Input Power (Tolerance : ±10%)	480W(100%)	500W(BOOST/EXT)
Photosynthetic photon flux (Tolerance : ±10%)	1248 μmols	1300 μmols
Luminous Efficacy(Tolerance : -5%)	2.6μmol/J	2.6μmol/J
Viewing Angle (Tolerance : ±10%)	120°	
Spectrum	Full Spectrum/Greenhouse Spectrum/Indoor Spectrum	
CRI	>80	
Electrical		
Input Voltage	120-277VAC 50/60Hz	
PF (Tolerance : -3%)	≥0.9	
THD(Tolerance : +5%)	≤20%	
Driver Brand	China brand driver	
Driver Surge protection	L/N-PE: 10kV, L-N: 5kV	
Dimming	0-10V Dimming standard	
Materials		
LED Brand	China brand leds(white)+China brand leds(red)	
Housing	Aluminum Alloy	
Housing Color	Silver or Customized	
Waterproof Rating	DAMP	
Others		
Operating Temperature	-40℃ TO 50℃	
Operating Humidity	10%-90% RH	
Storage Temperature	-40℃ TO 80℃	
Storage Humidity	10%-95% RH	
Warranty Time	5 years warranty with 24/7 operating hours Luminaire lifetime at 25℃.	

Spectrum

Full Spectrum



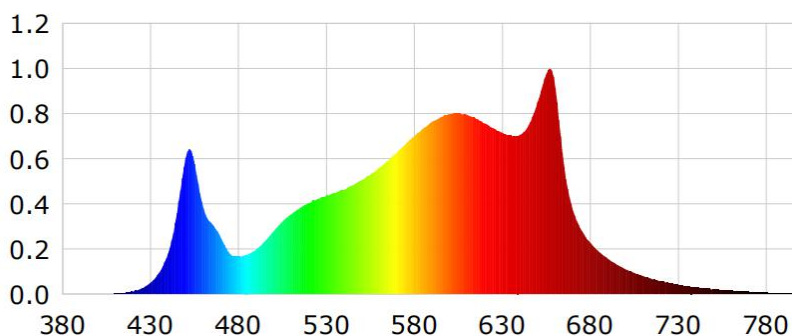
Photometric Parameters

Luminous Flux: 77021.70 lm	Efficiency: 160.73 lm/W	Radiant Power: 263.441 W
EEI: 0.08	Energy Efficiency Class: A++ (EU 874-2012)	
PAR: 256.992 W	PPF: 1229.348 umol/s	R/B: 2.0
PF1:194.273 umol/s(400~500nm)	PF2:480.557 umol/s(500~600nm)	
PF3:554.511 umol/s(600~700nm)	PFfr:40.556 umol/s(700~800nm)	PPE:2.565 umol/s/w PF:1269.964 umol/s

Electric Parameters

Voltage: 276.60V	Current: 1.8600A	Power: 479.20W
Power Factor: 0.9320	Frequency: 60.00Hz	

Indoor Spectrum



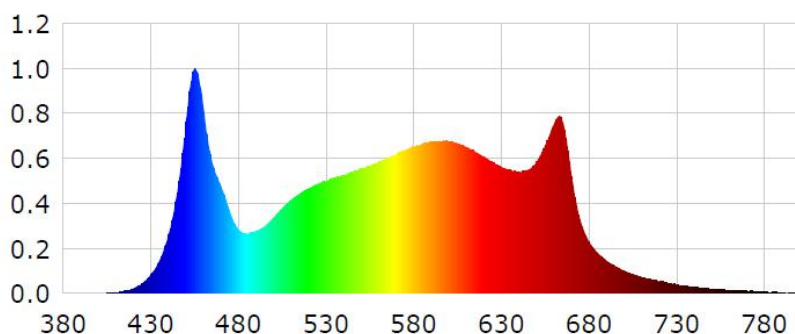
Photometric Parameters

Luminous Flux: 77172.24 lm	Efficiency: 162.33 lm/W	Radiant Power: 254.575 W
EEI: 0.08	Energy Efficiency Class: A++ (EU 874-2012)	
PAR: 248.847 W	PPF: 1206.811 umol/s	R/B: 3.0
PF1:144.287 umol/s(400~500nm)	PF2:471.626 umol/s(500~600nm)	
PF3:590.896 umol/s(600~700nm)	PFfr:35.782 umol/s(700~800nm)	PPE:2.539 umol/s/w PF:1242.624 umol/s

Electric Parameters

Voltage: 278.00V	Current: 1.8350A	Power: 475.40W
Power Factor: 0.9320	Frequency: 60.00Hz	

Greenhouse Spectrum



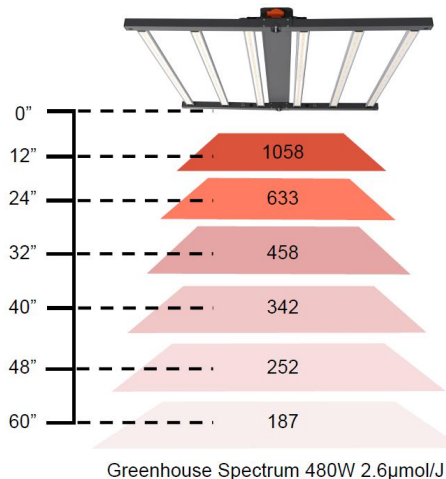
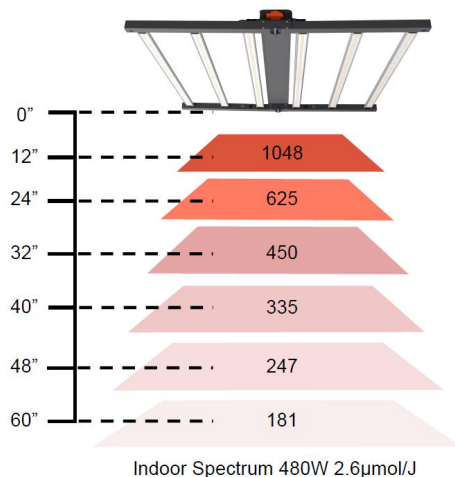
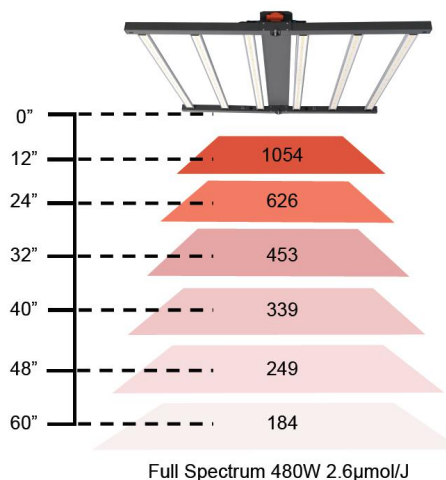
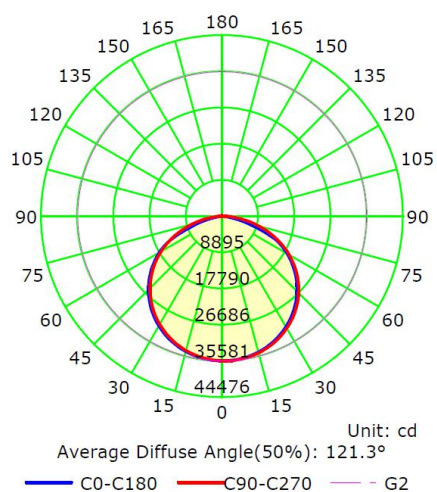
Photometric Parameters

Luminous Flux: 75182.77 lm	Efficiency: 161.06 lm/W	Radiant Power: 257.813 W
EEI: 0.08	Energy Efficiency Class: A++ (EU 874-2012)	
PAR: 252.487 W	PPF: 1192.847 umol/s	R/B: 1.6
PF1: 227.401 umol/s(400~500nm)	PF2: 472.914 umol/s(500~600nm)	
PF3: 492.530 umol/s(600~700nm)	PFfr: 33.429 umol/s(700~800nm)	PPE: 2.555 umol/s/w PF: 1226.327 umol/s

Electric Parameters

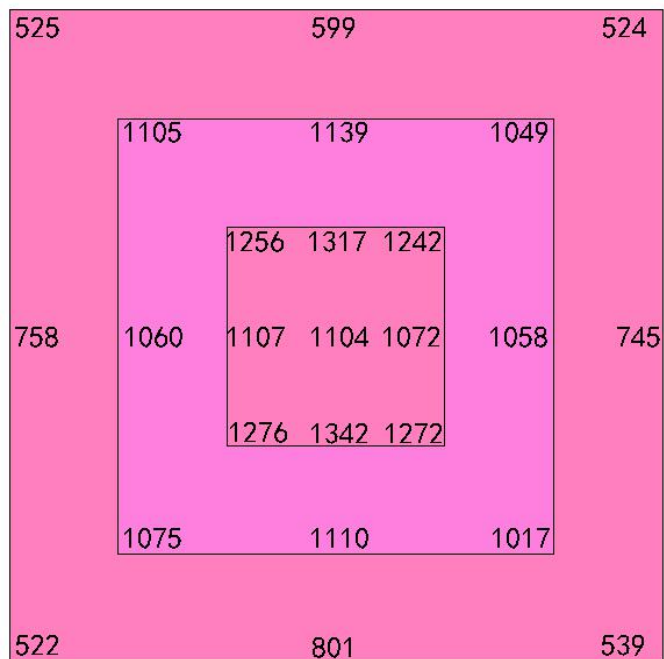
Voltage: 276.10V	Current: 1.8170A	Power: 466.80W
Power Factor: 0.9310	Frequency: 59.99Hz	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

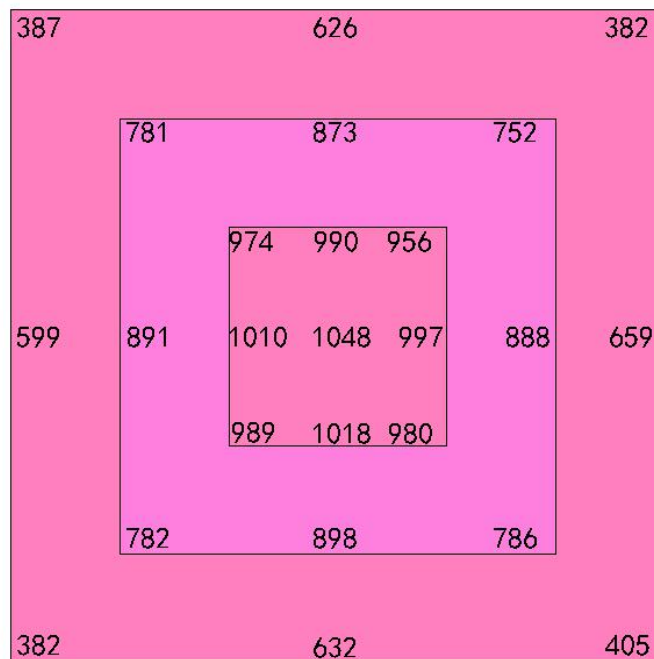


PPFD

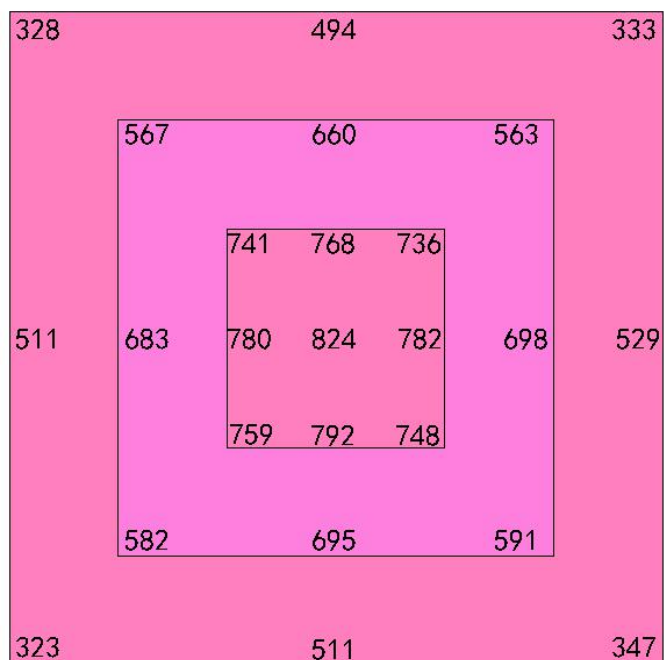
Full Spectrum



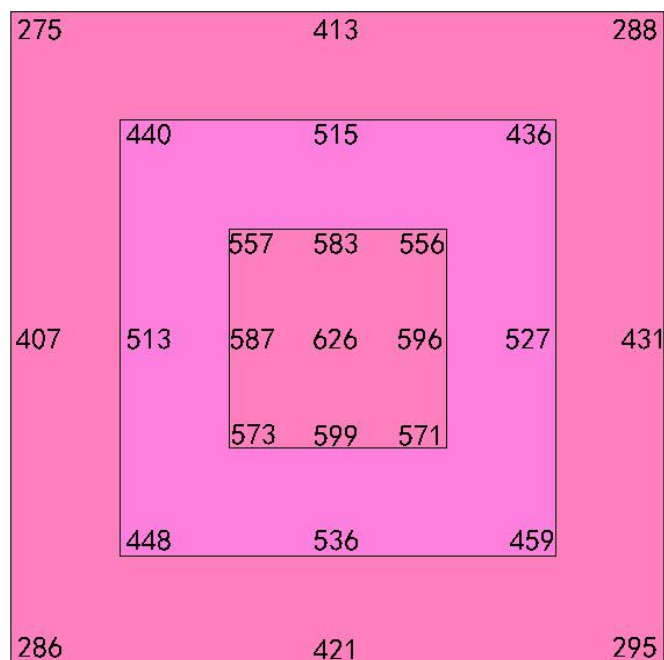
480W 6"/152mm Height



480W 12"/305mm Height

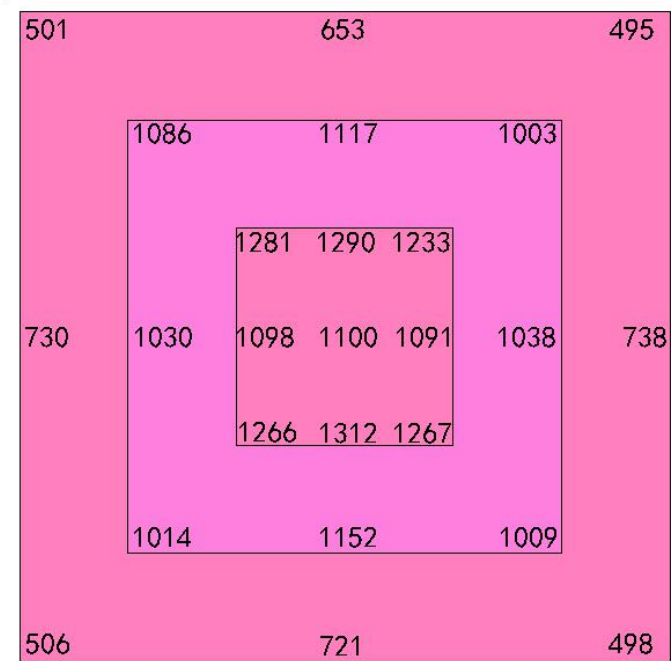


480W 18"/457mm Height

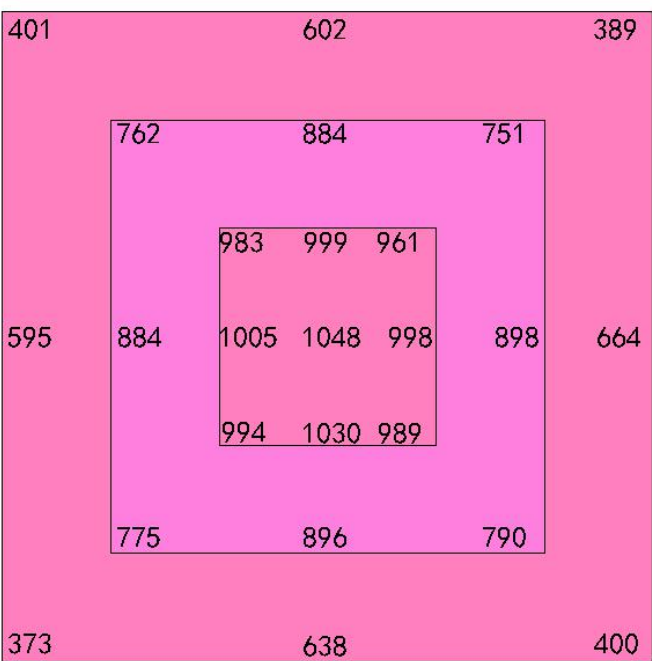


480W 24"/609mm Height

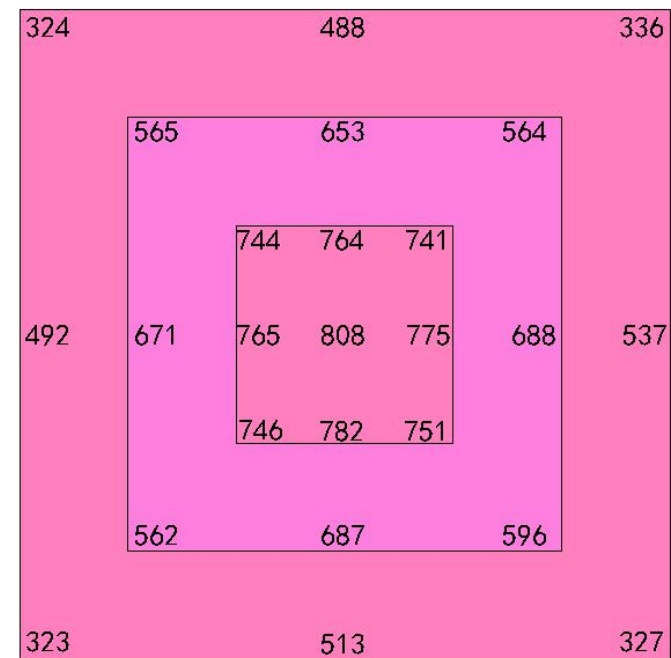
Indoor Spectrum



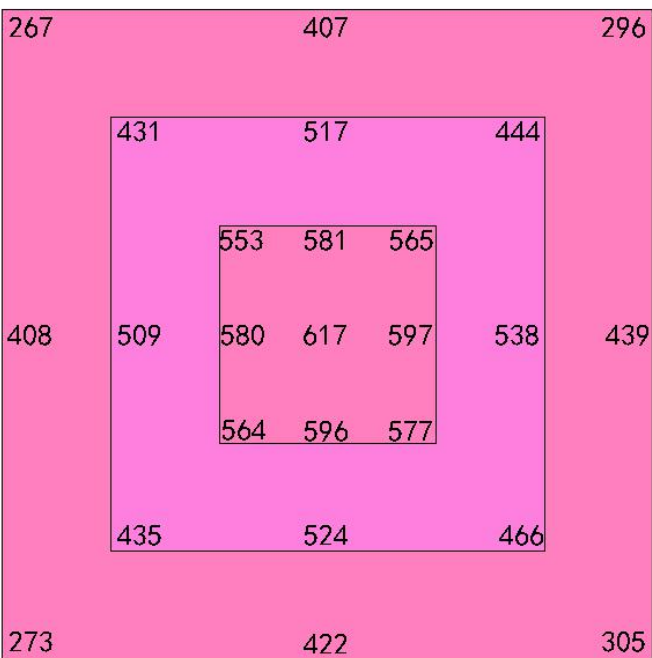
480W 6"/152mm Height



480W 12"/305mm Height

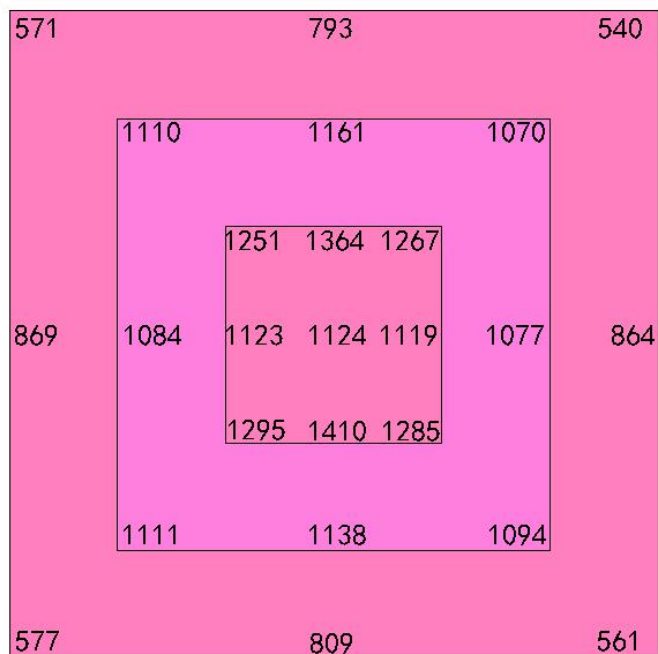


480W 18"/457mm Height

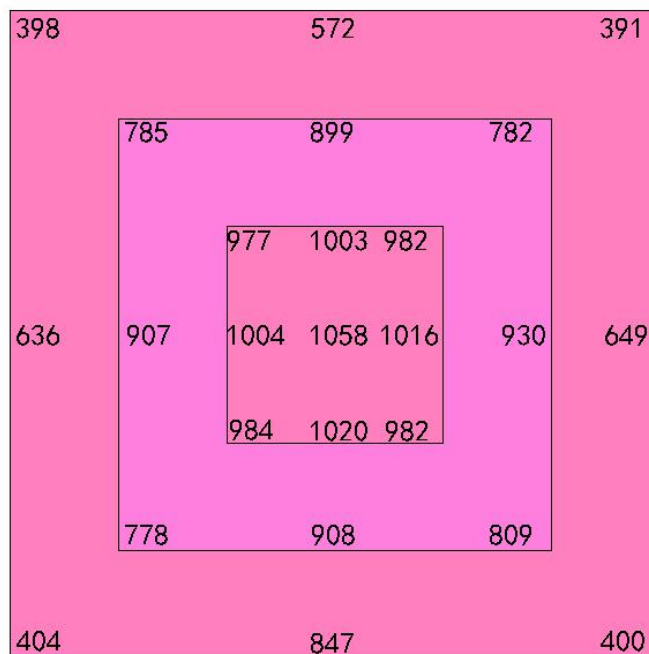


480W 24"/609mm Height

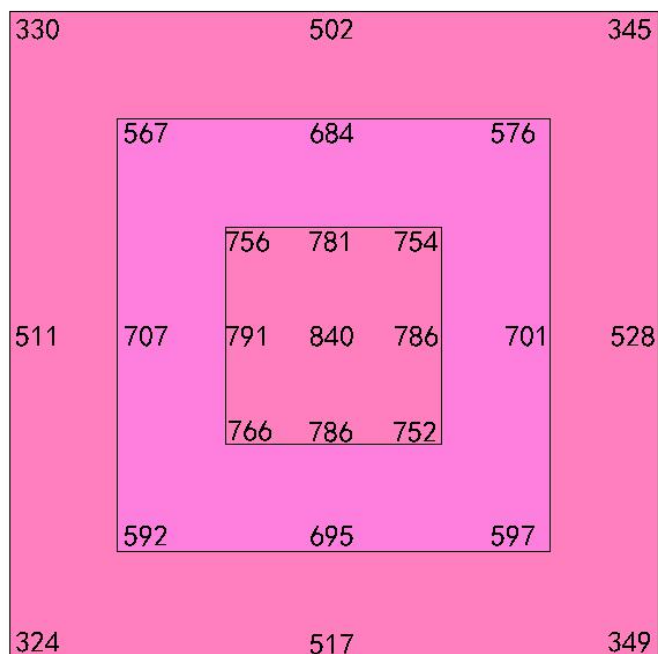
Greenhouse Spectrum



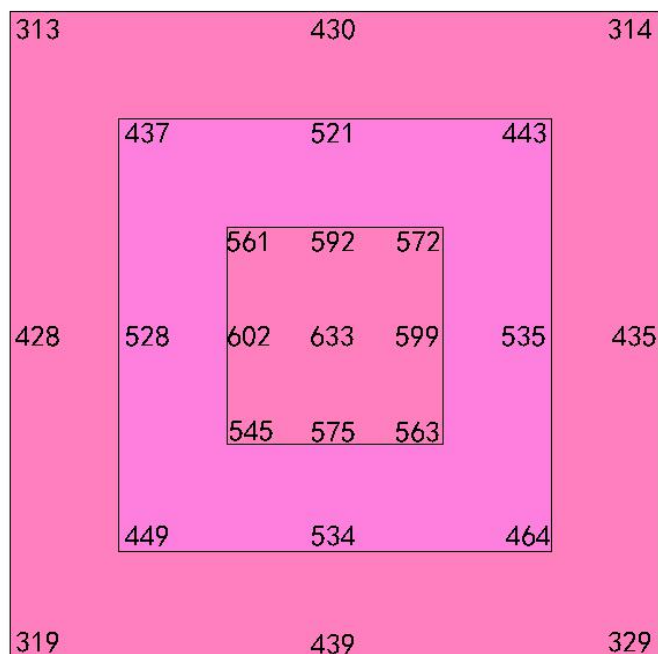
480W 6"/152mm Height



480W 12"/305mm Height



480W 18"/457mm Height

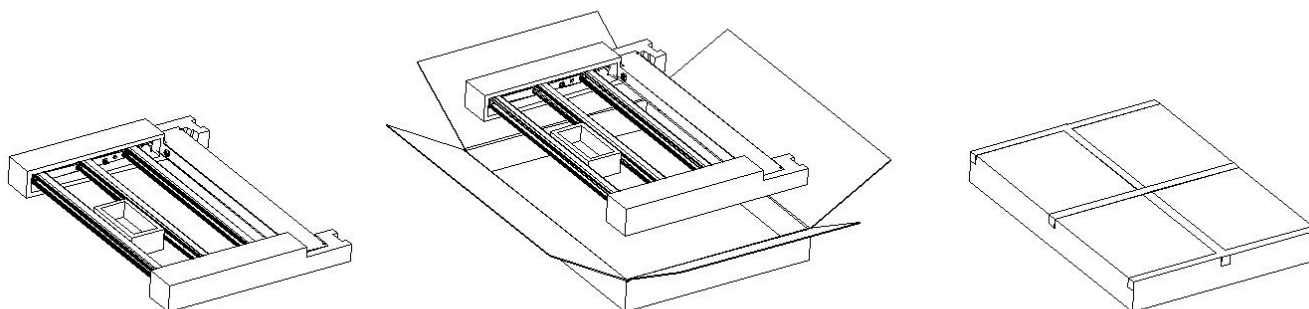


480W 24"/609mm Height

Package

	Carton Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
Lamp Outer box	1200*678*140MM	1 PC	10.5KG	13.5KG

Tolerance of Carton Size: ± 15 MM, Tolerance of Weight: $\pm 10\%$.



Notice For User

- Please turn off power before install or change assembly parts.
- The input voltage and lamps should be matched, after connecting the power line, Please make sure the wiring section is insulated.
- No-professionals, must not install and disassemble the lamps.
- Lights are prohibited from illuminating people

Trouble Shootings

Troubles	Check points
Flickering of the light	Turn off the power and turn on again in 3 minutes. If same phenomena occur, then call agencies.
Out of working	Please check the connection.