

PRODUCT DESCRIPTION

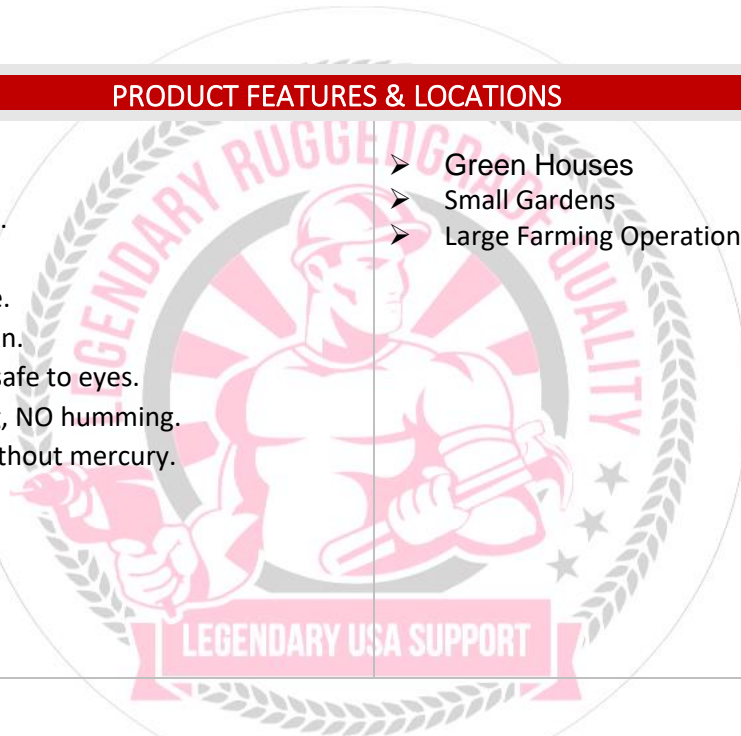
The Vela XT Series LED Grow Light 960W is a high-performance horticultural lighting solution designed for optimal plant growth. Featuring Full Spectrum/Greenhouse Spectrum/Indoor Spectrum, it supports the cultivation of fruits, vegetables, and cannabis.



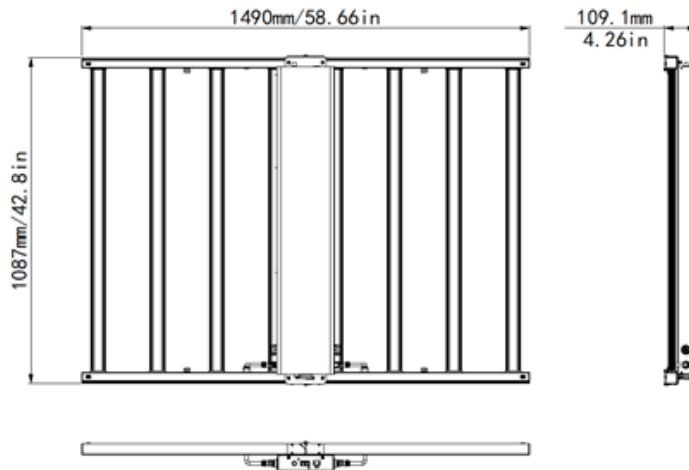
Part #: RGL-VELA-XT-960W

PRODUCT FEATURES & LOCATIONS

- UL cUL certificate.
 - Input voltage 120-277VAC.
 - No UV or IR in the beam.
 - Easy to install and operate.
 - Energy saving, long lifespan.
 - Light is soft and uniform, safe to eyes.
 - Instant start, NO flickering, NO humming.
 - Green and eco-friendly without mercury.
- Green Houses
 - Small Gardens
 - Large Farming Operation



PRODUCT DIMENSIONS



Rugged Grade Lighting
Industrial Grade Solutions



LEGENDARY USA SUPPORT



US based
phone and online
customer support



888-953-2476
sales@ruggedgrade.com



PRODUCT TECHNICAL SPECIFICATIONS

OPTICAL	Input Power (Tolerance : ±10%)	960W(100%)
	Photosynthetic photon flux (Tolerance : ±10%)	2496 μmols
	Luminous Efficacy(Tolerance : -5%)	2.6μmol/J
	Viewing Angle (Tolerance : ±10%)	120°
	Spectrum	Full Spectrum/Greenhouse Spectrum/Indoor Spectrum
	CRI	>80
ELECTRICAL	Input Voltage and Frequency	120-347VAC, 50/60Hz
	PF (Tolerance : -3%)	≥0.9
	THD (Tolerance : +5%)	≤20%
	Dimming	0-10V
	Driver Surge protection	L/N-PE: 6kV, L-N: 4kV
	Driver Brand	Rugged Grade Lighting
	Driver Model	RG-960W-120-347V
	Housing	Aluminum Alloy
	Housing Color	White
	Waterproof Rating	DAMP
MATERIALS	Operating Temperature	-40°C TO 50°C
	Storage Temperature	-40°C TO 80°C
	Storage Humidity	10%-95% RH
	Operating Humidity	10%-90% RH
	Warranty	5 years warranty with 24/7 operating hours Luminaire lifetime at 25°C.

PRODUCT MOUNTS & ACCESSORIES

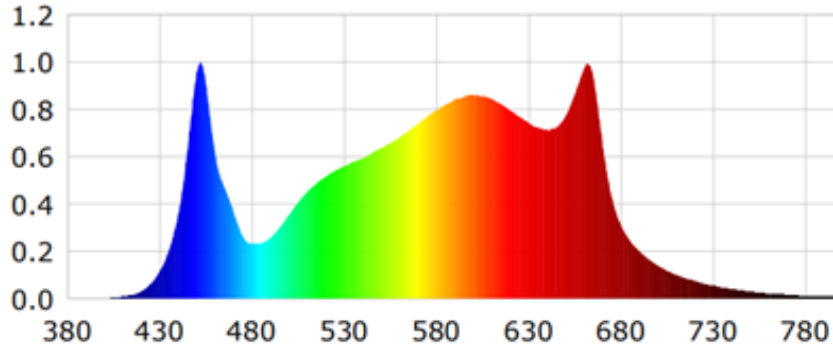
LEGENDARY USA SUPPORT





PHOTOMETRICS

Full Spectrum



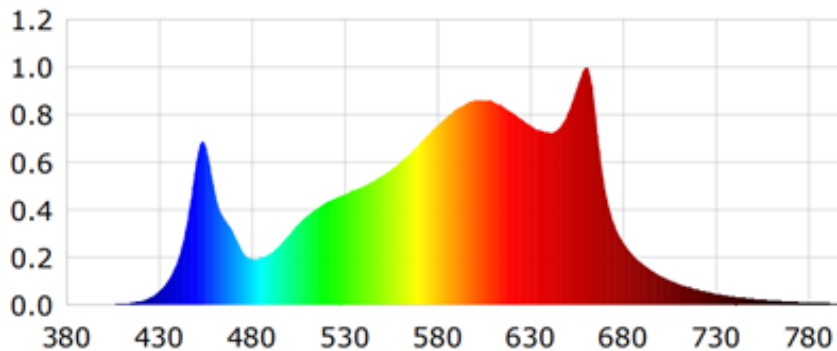
Photometric Parameters

Luminous Flux: 154580.11 lm	Efficiency: 160.17 lm/W	Radiant Power: 525.877 W
EI: 0.09	Energy Efficiency Class: A++ (EU 874-2012)	
PAR: 513.255 W	PPF: 2455.160 umol/s	R/B: 2.1
PF1: 382.858 umol/s(400~500nm)	PF2: 963.177 umol/s(500~600nm)	
PF3: 1109.115 umol/s(600~700nm)	PFfr: 79.338 umol/s(700~800nm)	PPE: 2.544 umol/s/w PF: 2534.612 umol/s

Electric Parameters

Voltage: 276.80V	Current: 3.7330A	Power: 965.10W
Power Factor: 0.9340	Frequency: 59.99Hz	

Indoor Spectrum



Photometric Parameters

Luminous Flux: 150687.55 lm	Efficiency: 159.66 lm/W	Radiant Power: 500.214 W
EI: 0.09	Energy Efficiency Class: A++ (EU 874-2012)	
PAR: 488.641 W	PPF: 2368.534 umol/s	R/B: 2.9
PF1: 292.111 umol/s(400~500nm)	PF2: 922.123 umol/s(500~600nm)	
PF3: 1154.291 umol/s(600~700nm)	PFfr: 72.693 umol/s(700~800nm)	PPE: 2.510 umol/s/w PF: 2441.319 umol/s

Electric Parameters

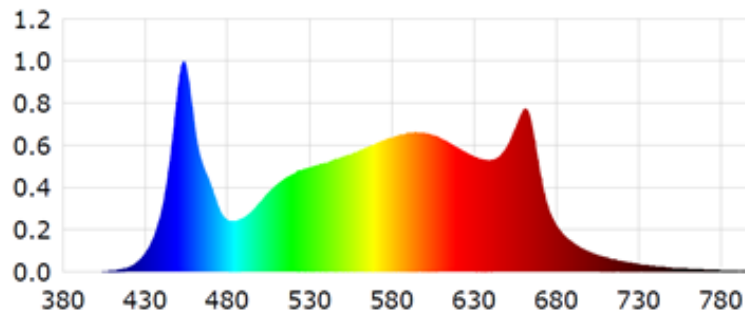
Voltage: 275.50V	Current: 3.6700A	Power: 943.80W
Power Factor: 0.9340	Frequency: 60.00Hz	





PHOTOMETRICS

Greenhouse Spectrum



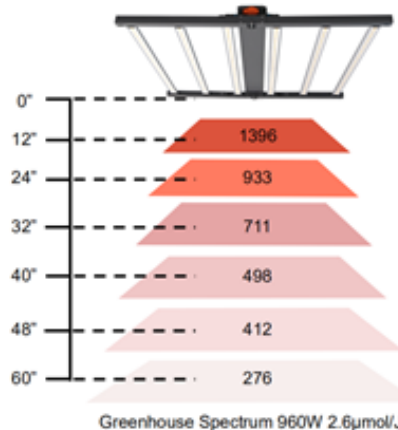
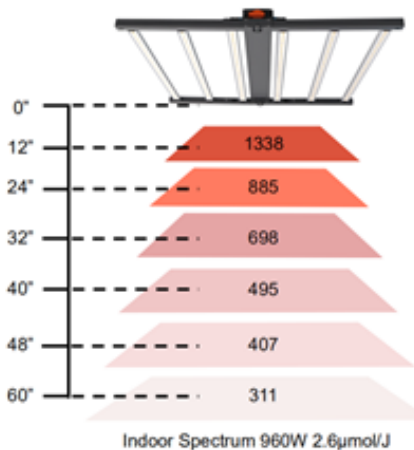
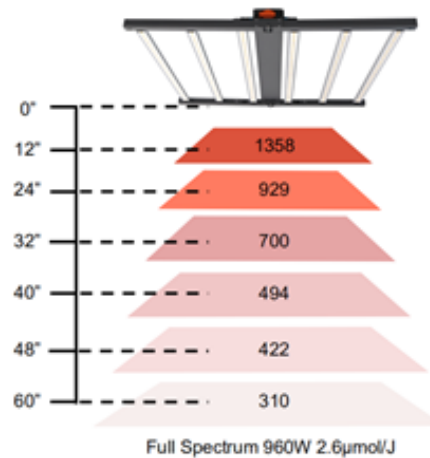
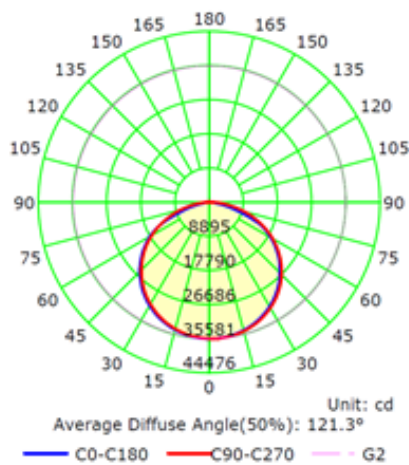
Photometric Parameters

Luminous Flux: 157374.25 lm	Efficiency: 161.48 lm/W	Radiant Power: 538.852 W
EEI: 0.08	Energy Efficiency Class: A++ (EU 874-2012)	
PAR: 528.133 W	PPF: 2493.986 umol/s	R/B: 1.6
PF1: 471.471 umol/s(400~500nm)	PF2: 993.305 umol/s(500~600nm)	
PF3: 1029.203 umol/s(600~700nm)	PFfr: 67.228 umol/s(700~800nm)	PPE: 2.559 umol/s/w PF: 2561.343 umol/s

Electric Parameters

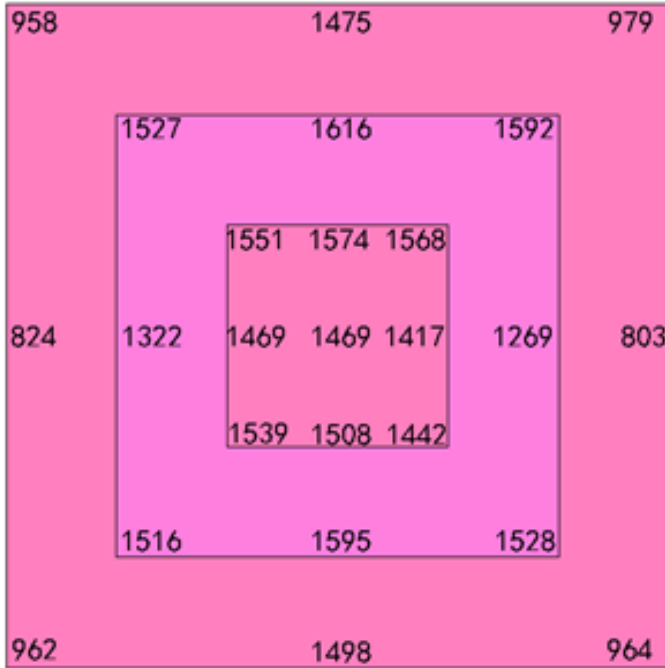
Voltage: 275.10V	Current: 3.6890A	Power: 974.60W
Power Factor: 0.9600	Frequency: 60.00Hz	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

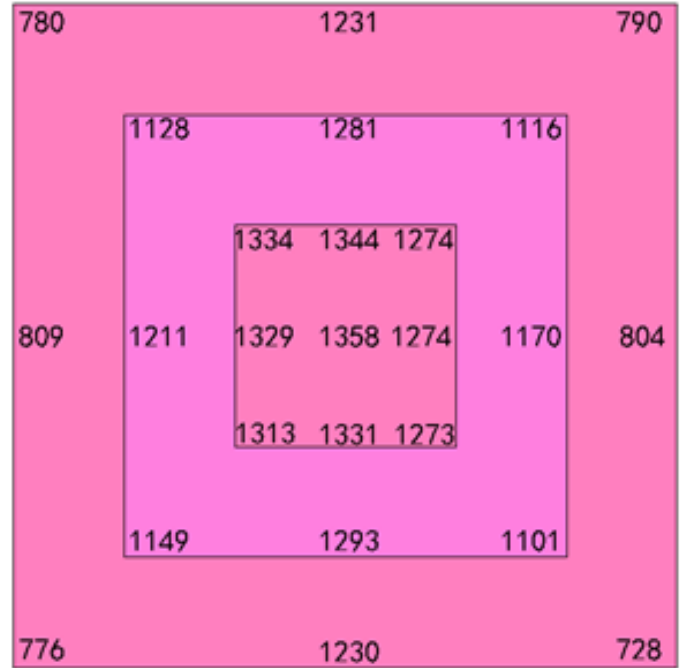


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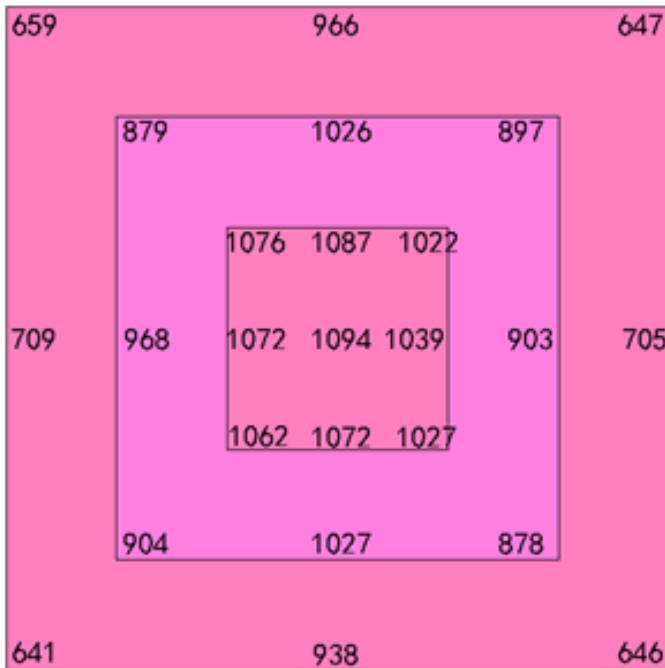
Full Spectrum



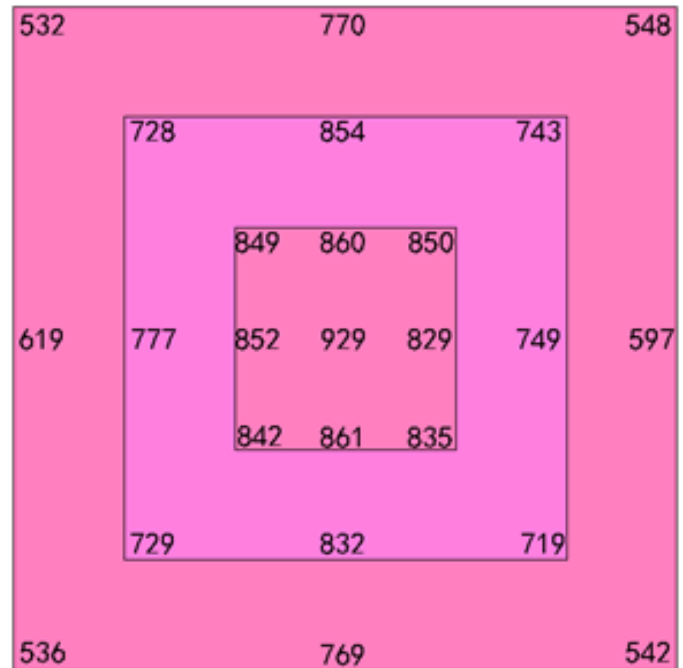
960W 6"/152mm Height



960W 12"/305mm Height



960W 18"/457mm Height

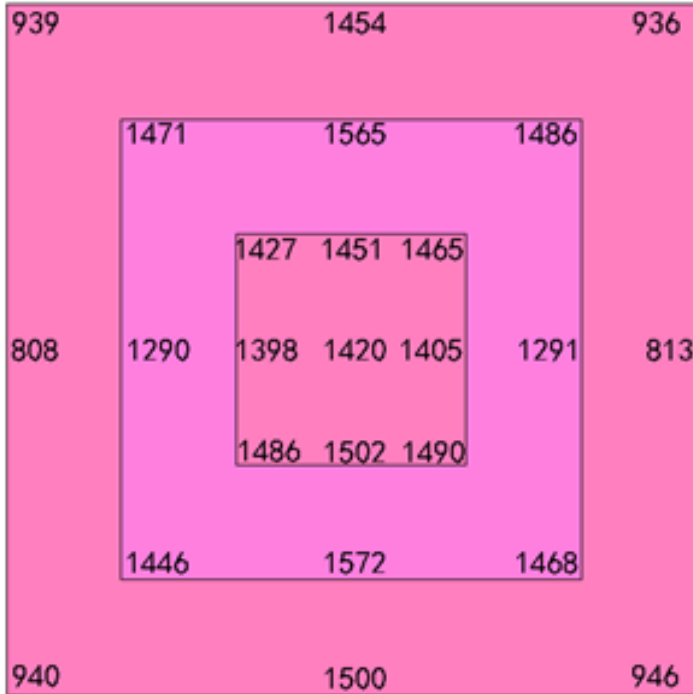


960W 24"/609mm Height

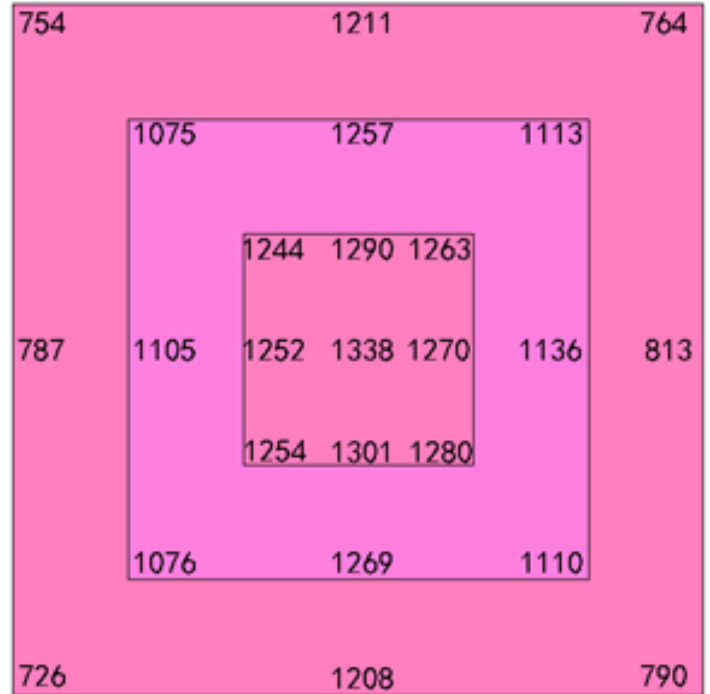


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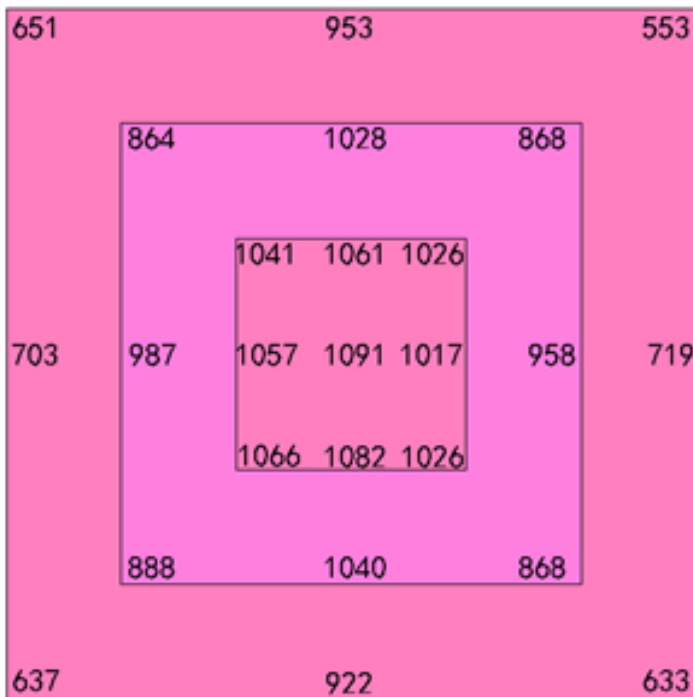
Indoor Spectrum



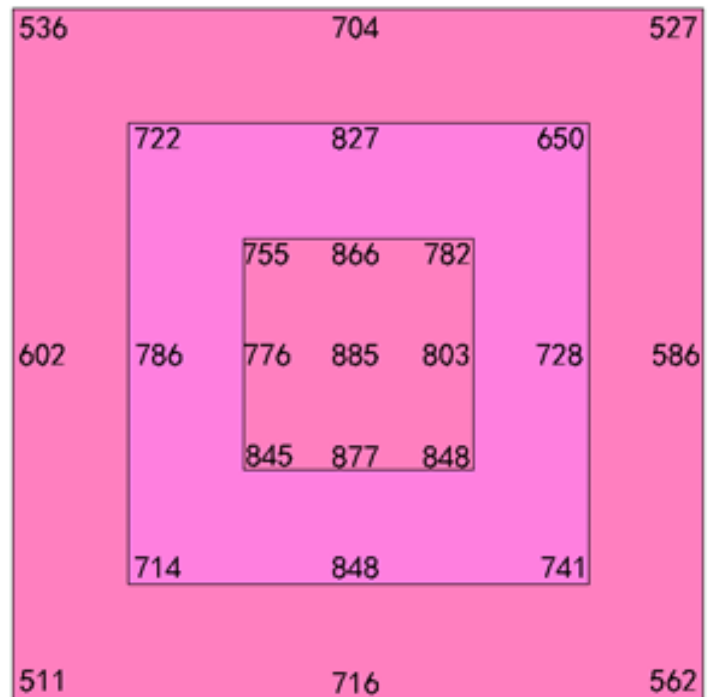
960W 6"/152mm Height



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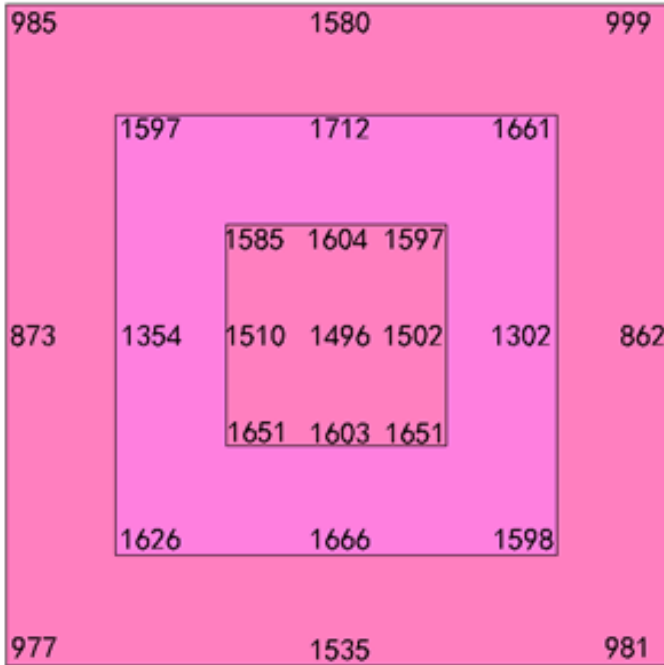


960W 24"/609mm Height

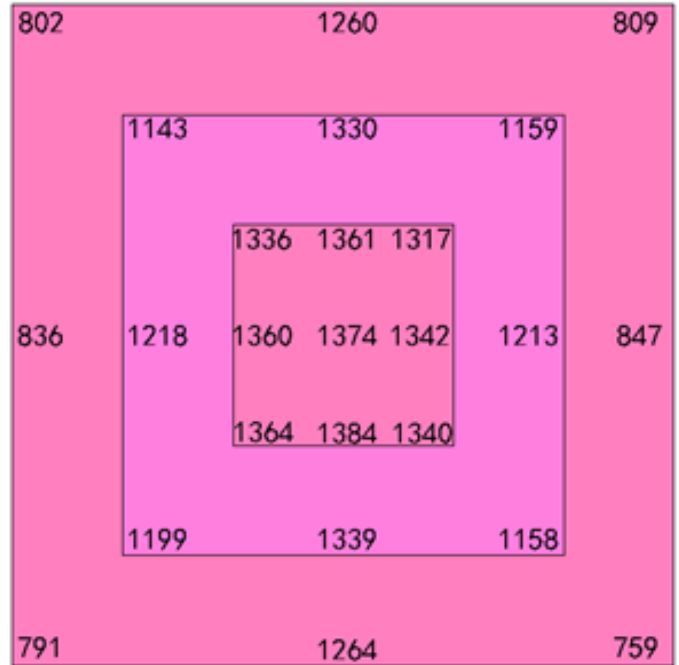


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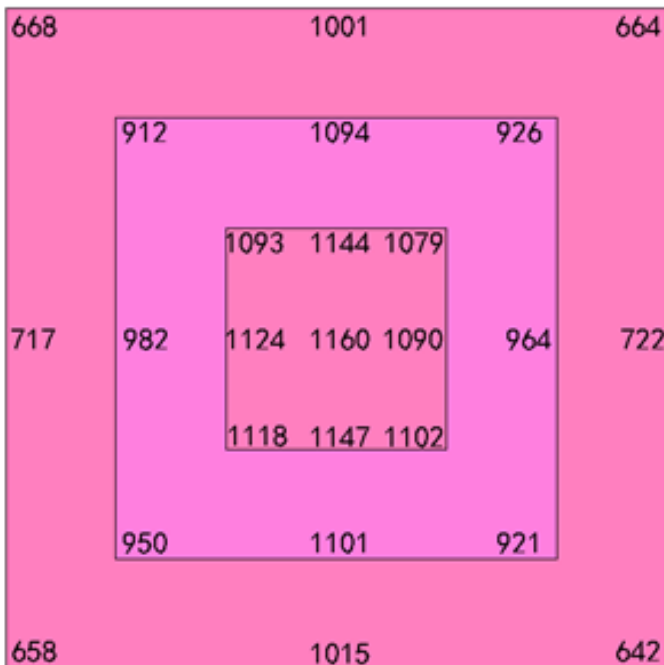
Greenhouse Spectrum



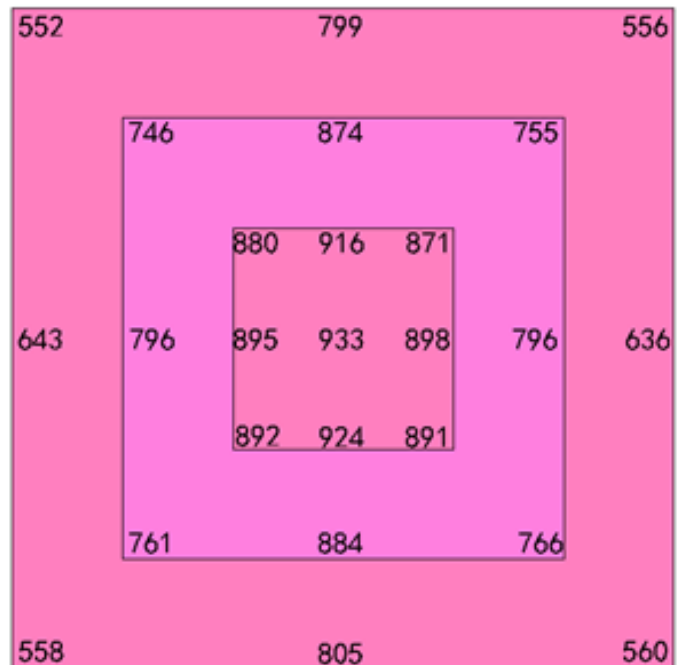
960W 6"/152mm Height



960W 12"/305mm Height



960W 18"/457mm Height

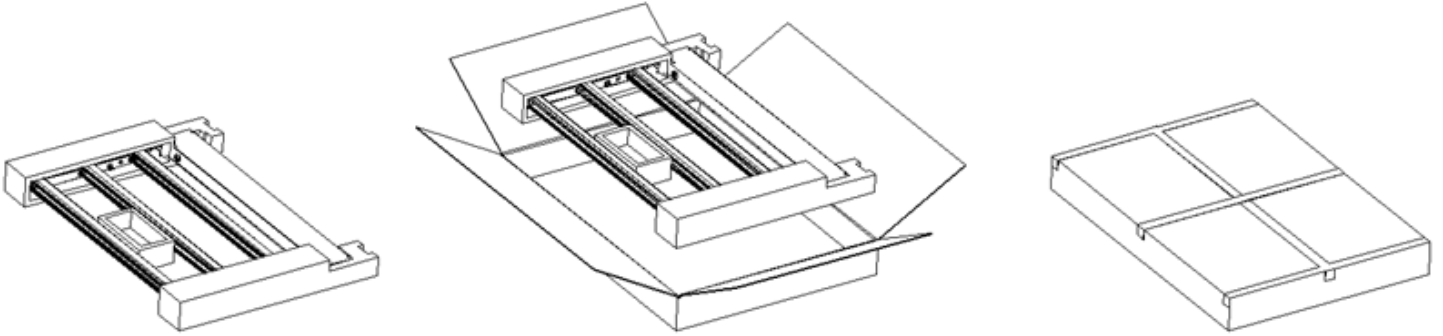


960W 24"/609mm Height



PRODUCT PACKAGING

	Carton Size	Qty / Carton	Net Weight / Carton	Gross Weight / Carton
Lamp Outer box	1220*1075*140MM	1 PC	18.5KG	23.5KG



PRODUCT WARNINGS

- ⚡ 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.
- ⚡ Professionals must install and disassemble the lamps.
- ⚡ Surge is the number 1 cause of LED light failure. Outdoor lights must have surge at fixture, pole, and breaker.
- ⚡ Surge is the number 1 cause of LED light failure. Indoor lights must have surge at fixture and breaker.

PRODUCT TROUBLESHOOTING

Issue	Check points
Light Flickers	Check all wiring for disconnections, shorts and burnt wiring and connections. Confirm steady input voltage to the light fixture, fluctuating input voltage will harm the LED driver and can lead to premature failure. Lights with photocells can have photocell tag from ambient light or light reflecting at the sensor. Simply cover the photocell completely and see if flickering continues while the photocell is covered. Call Tech Support for help if none of the above solves the issue.
Light does not work at all.	Check all wiring for disconnections, shorts and burnt wiring and connections. Confirm steady input voltage to the light fixture, fluctuating input voltage will harm the LED driver and can lead to premature failure. If input voltage is not in the voltage range of the fixture, you will need to find the source of your input voltage issue. Call Tech Support for help if none of the above solves the issue.

For more technical information, install questions, troubleshooting help or warranty claims, we have a dedicated US Tech and Customer Support Team to help solve any issues you have and can be reached by email or phone. If you need help with any of our products, we are here for you so that you are never in the dark!

BETTER LIGHTS. BETTER SUPPORT.

