



CARPO

GROW LIGHT SERIES

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MAXIMIZE YIELD AND CROP QUALITY

The latest CARPO Grow Light Series is a highly versatile all-in-one LED Grow Light fixture that comes with full-spectrum and alternative red and blue spectrum strip light to suit niche crop cultivation. With flexible mounting hardware, it is easy to install and configure to the most common racking systems for horticulture application. CARPO is highly durable being flame retardant, waterproof, dust-resistant, and offers great consistent heat dissipation eliminating unwanted hot spots within the rack and plant canopy.



FEATURES



All-in-one complete grow system

CARPO is a complete grow light system with IP67 light strips, which designed to be configured easily as a retrofit to 4' x 2' industry-standard racks, trolleys and carts. No extra wiring or additional brackets and hooks are required.



Customized spectrum for your crops

CARPO Grow Light Series offers the customized combinations to get perfect spectrum to optimize the yields of different crops.



High weather-resistant

CARPO Grow Light Series with light strips that sleeved with a unique silicone jacket able to achieve an IP67 high-level of waterproof and dust-resistant.



Flame-retardant

Non-flammable coating treatment is applied to every silicone case of CARPO, which raised the overall flame retardant level to V1-grade.



Delivery convenience

The profile and mounting of CARPO can be disassembled into small parts which favor delivery with lower shipping cost.



Flexible installation to accommodate your needs

CARPO Grow Light Series can be installed in Mono, Duo, Trio or Quad, which provides flexibility for farms. Snap-fit assembly, no tools required.



Maximize yield & crop quality

CARPO Grow Light Series provides up to four efficient aluminium bars, ensuring a high efficacy PPE 2.6 $\mu\text{mol}/\text{J}$ and better heat dissipation, longer lifespan.



Better heat dissipation

The silicone jacket diverts heat away quickly thus maintaining the efficiency of the LED light strip and extended its durability.



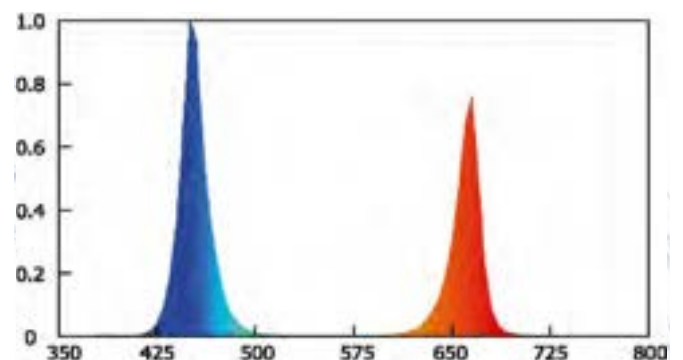
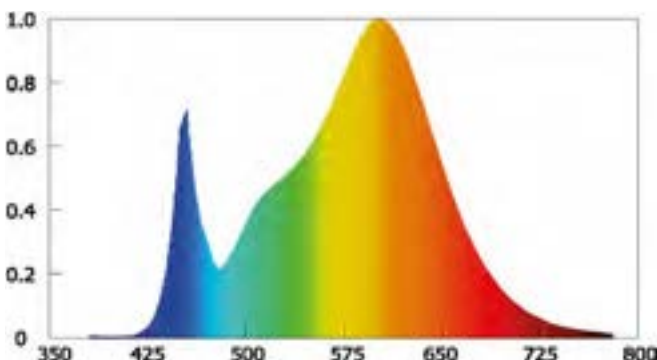
Low surface temperature, safe for plants

When operating, CARPO maintains a low surface temperature, which is safe for plants from getting burnt.



Dimmability and control system support

CARPO Grow Light Series supports optional PWM dimming and farming control system in an open way, with software and hardware integrated.



FIXTURE SPECIFICATIONS

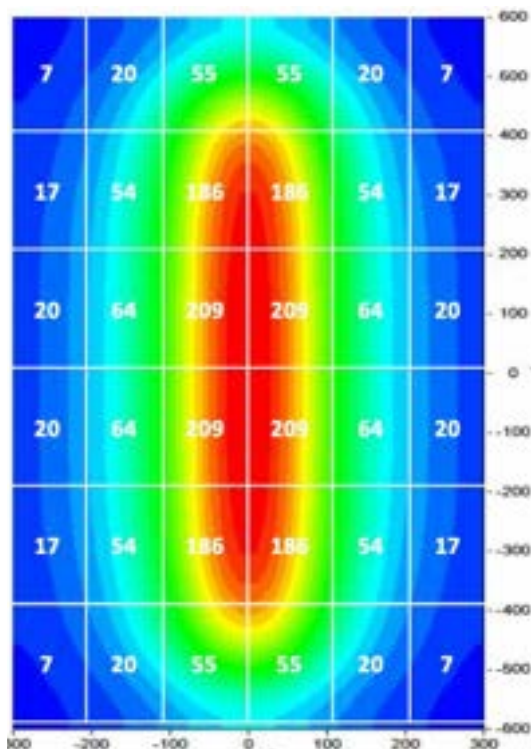
MONO (1-Rail)



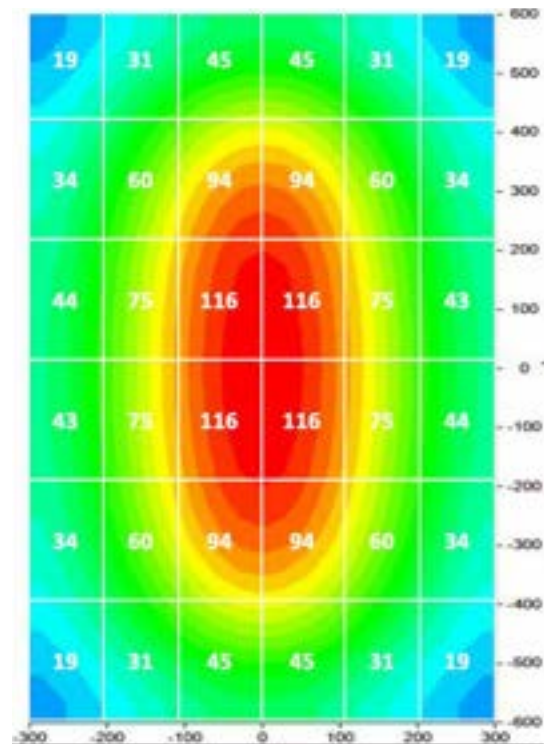
	WHITE	RED + BLUE
Fixture PPF	85.8 $\mu\text{mol/s}$	75.9 $\mu\text{mol/s}$
Fixture DC wattage	36 W	36 W
Fixture Dimension & weight	1160 x 50 mm 500 g	1160 x 50 mm 500 g
Strips Number of fixture	3 pcs	3 pcs
Strips PPF	28.6 $\mu\text{mol/s}$	25.3 $\mu\text{mol/s}$

PPFD per area 60 cm x 120 cm (full spectrum - WHITE)

Height: 15 cm



Height: 30 cm



FIXTURE SPECIFICATIONS

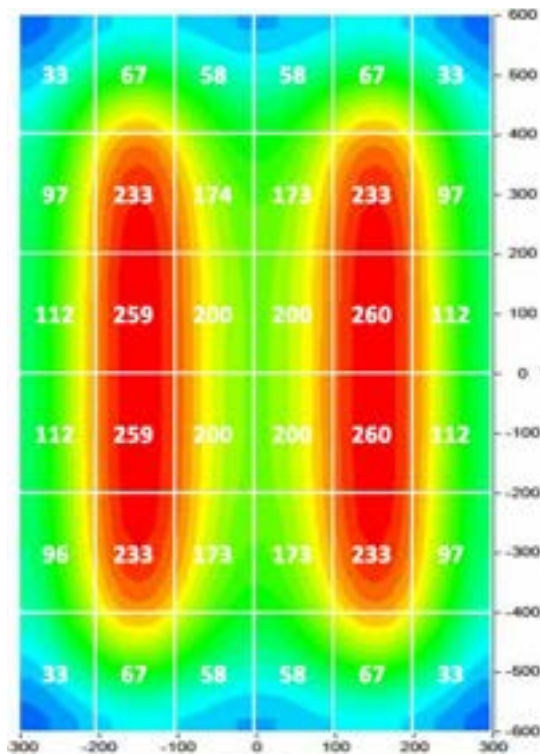
DUO (2-Rail)



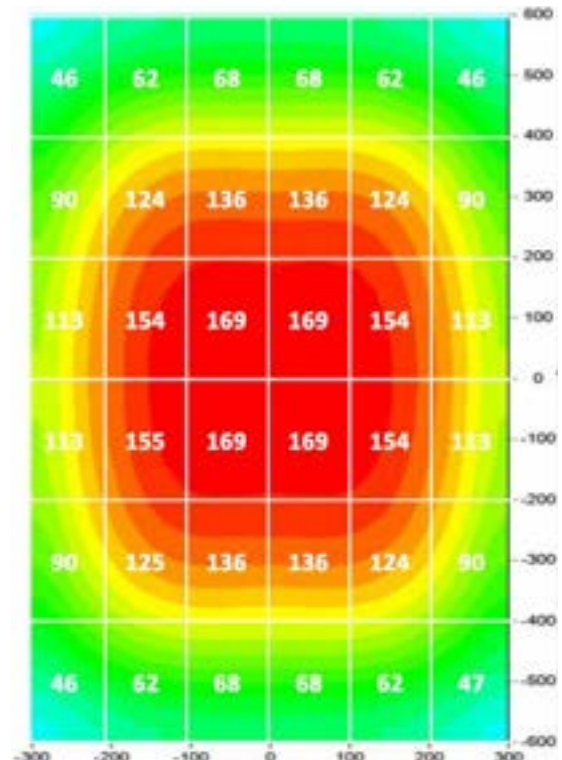
	WHITE	RED + BLUE
Fixture PPF	171.6 $\mu\text{mol/s}$	151.8 $\mu\text{mol/s}$
Fixture DC wattage	72 W	72 W
Fixture Dimension & weight	1160 x 499 mm 2700 g	1160 x 499 mm 2700 g
Strips Number of fixture	6 pcs	6 pcs
Strips PPF	28.6 $\mu\text{mol/s}$	25.3 $\mu\text{mol/s}$

PPFD per area 60 cm x 120 cm (full spectrum - WHITE)

Height: 15 cm



Height: 30 cm



FIXTURE SPECIFICATIONS

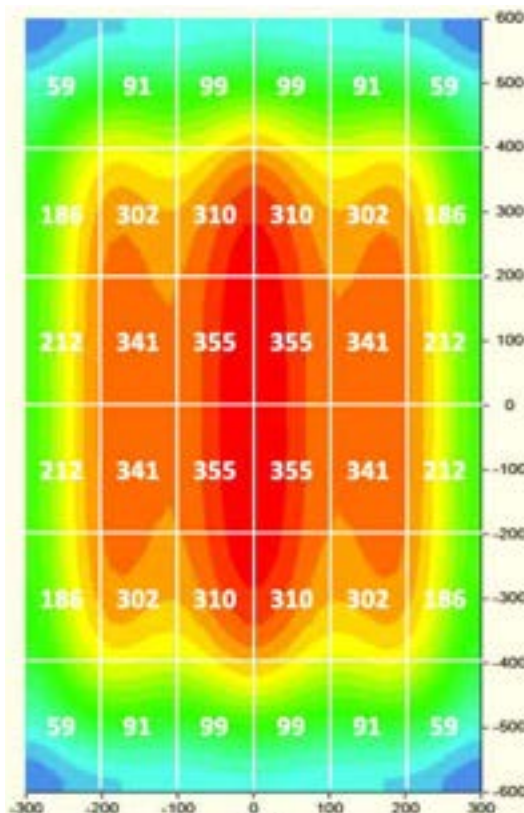
TRIO (3-Rail)



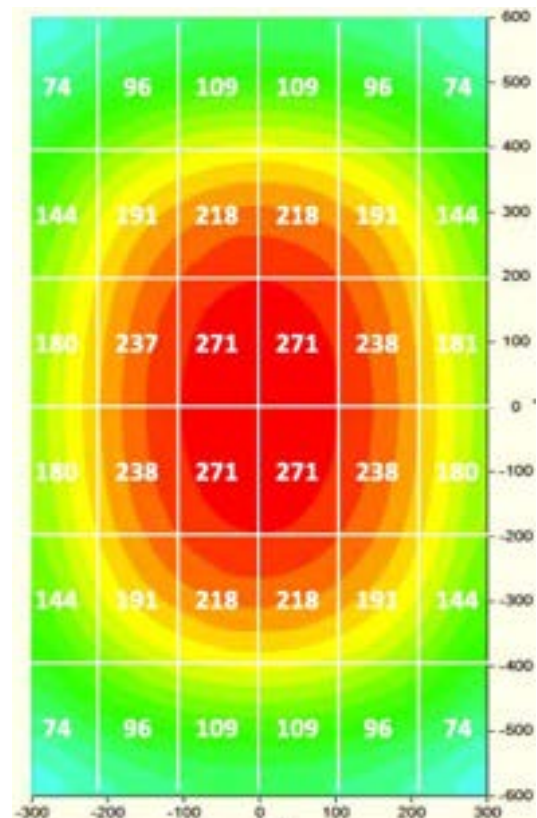
	WHITE	RED + BLUE
Fixture PPF	257.4 $\mu\text{mol/s}$	227.7 $\mu\text{mol/s}$
Fixture DC wattage	108 W	108 W
Fixture Dimension & weight	1160 x 500 mm 3300 g	1160 x 500 mm 3300 g
Strips Number of fixture	9 pcs	9 pcs
Strips PPF	28.6 $\mu\text{mol/s}$	25.3 $\mu\text{mol/s}$

PPFD per area 60 cm x 120 cm (full spectrum - WHITE)

Height: 15 cm



Height: 30 cm



FIXTURE SPECIFICATIONS

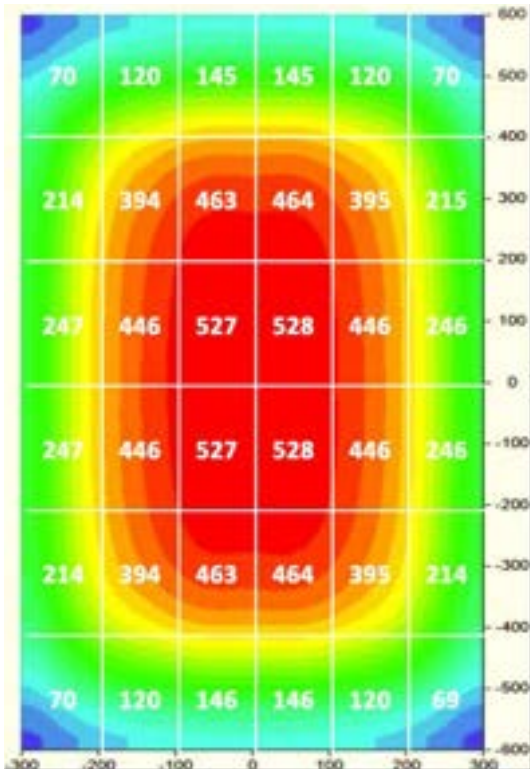
QUAD (4-Rail)



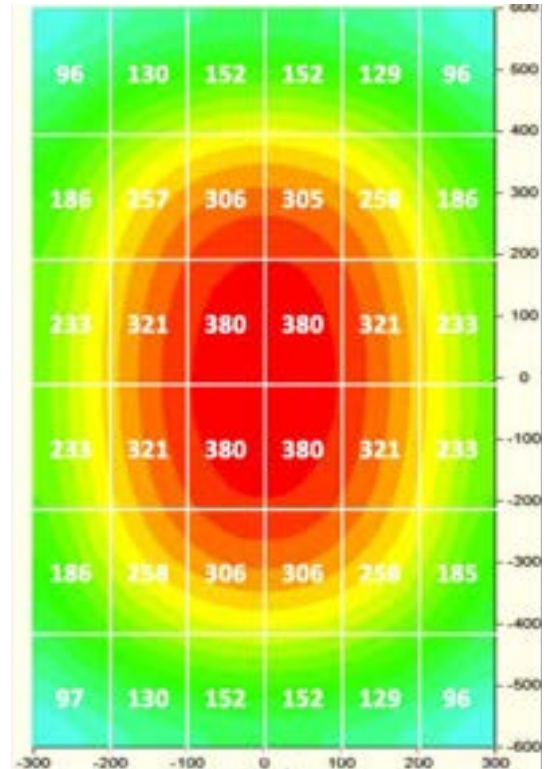
	WHITE	RED + BLUE
Fixture PPF	343.2 $\mu\text{mol/s}$	303.6 $\mu\text{mol/s}$
Fixture DC wattage	144 W	144 W
Fixture Dimension & weight	1160 x 500 mm 3900 g	1160 x 500 mm 3900 g
Strips Number of fixture	12 pcs	12 pcs
Strips PPF	28.6 $\mu\text{mol/s}$	25.3 $\mu\text{mol/s}$

PPFD per area 60 cm x 120 cm (full spectrum - WHITE)

Height: 15 cm



Height: 30 cm



CARPO GROW LIGHT STRIP SPECIFICATIONS

CARPO Grow Light Strip specification

Color	White	Red + Blue
		Red: 655-665 mm / Blue: 450-460 mm
PPF output per meter	26 $\mu\text{mol/s}$	23 $\mu\text{mol/s}$
CRI	80 Ra	-
Efficacy	2.6 $\mu\text{mol/s}$	2.3 $\mu\text{mol/s}$
Input voltage	24 V DC	
AC Input voltage	100-350 V AC (Based PSU model)	
Rated current 1 M	469 mA \pm 10 %	
Total power 1 M	10 W	
Power supply	Mean Well ELG series, PWM series (on request)	
Thermal management	Passive	
Radiation angle	100°	
Max. continuous length	6 meters	
Dimmable	Yes (PWM)	
Lifespan	L90: > 54,000 hrs	L90: > 34,000 hrs
Power factor	> 0.95 @ full load (Based on PSU)	
Operating temperature	-20 °C ~ + 50 °C	
Storage temperature	-25 °C ~ + 60 °C	
Min. bending radius	100 mm	
Flammability	V1	
Application	Indoor/ Outdoor/ High humidity farming	
IP Rating	IP67	
RoHS	Yes	
Certification	CE, CB	
Warranty	3 years	



ACCESSORIES (trio shown for reference only)

Support rib x 1



Light source x 3



Hanging wire x 1



Aluminium mounting rail & plastic mounting clip x 3



Wire clamp x 3



Power harness x 1



Power supply x 1

