

BLOOM LITE
DISCOVER TRUE GROWTH

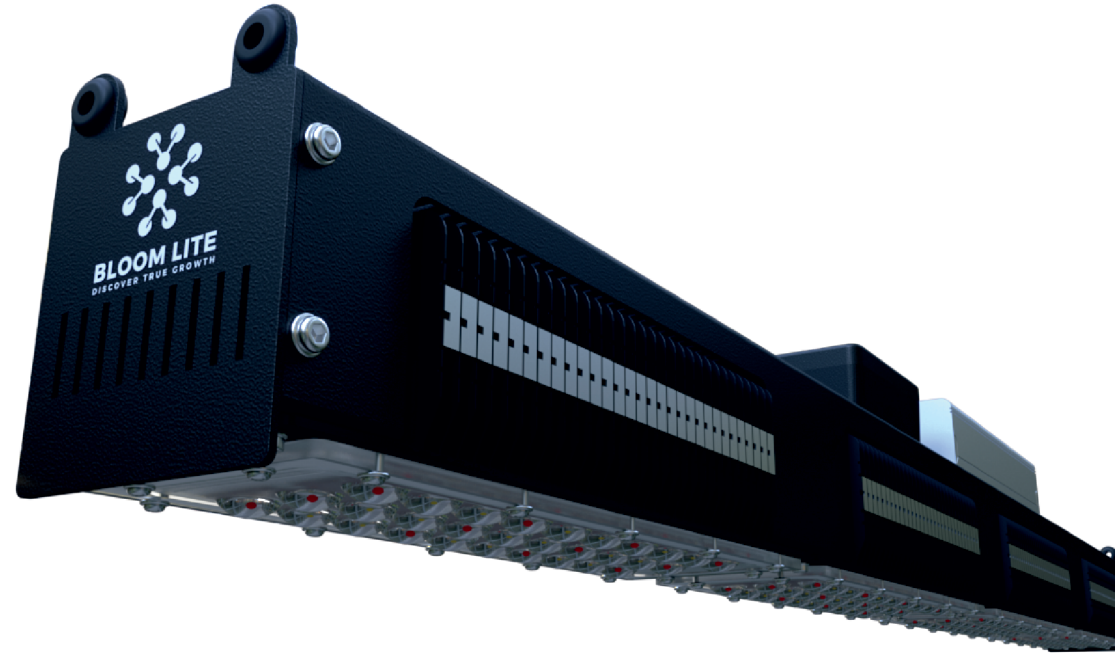
BIOMASS LED TopLight from BLOOM LITE®

LED GROW LIGHTS manufacturer –
designed for commercial horticulture

CREE ⇄

MW
MEAN WELL

HYBRID SPECTRUM ALL STAGES OF GROW



Passive heatsink cooling technology



High power LEDs



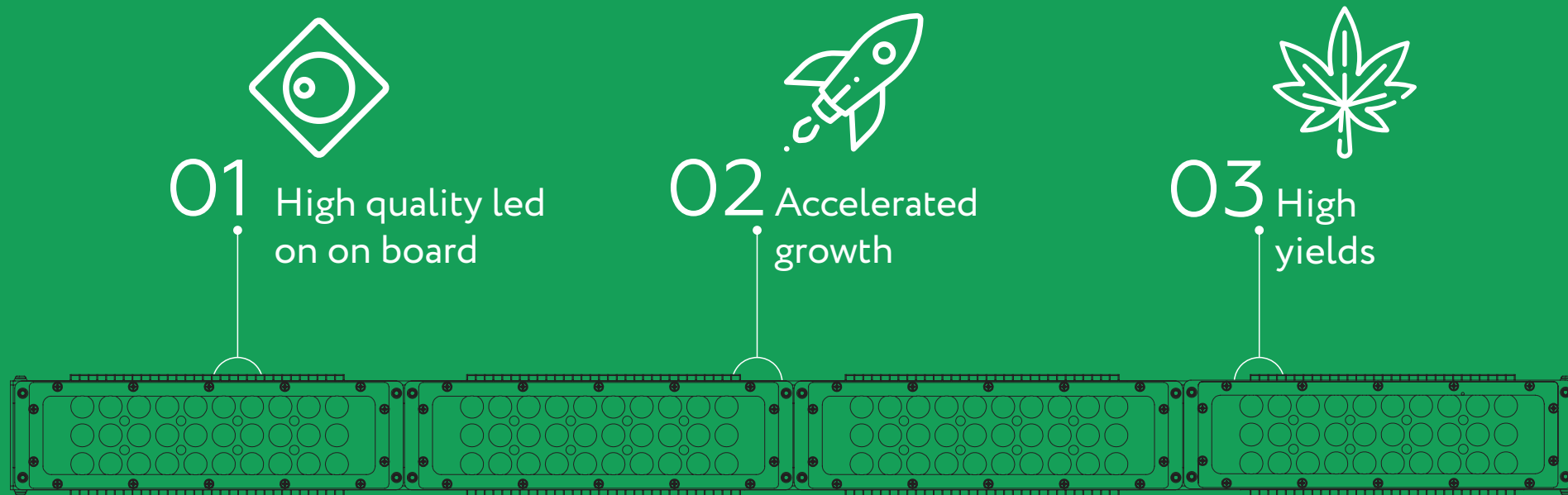
More control available

Available in a range about 600 PPF ($\mu\text{mol/s}$) and 1200 PPF ($\mu\text{mol/s}$) 2 light bars, the BIOMASS TopLight from BloomLite® - is designed and tested specifically **for indoor grow operations, including greenhouses.**

It is complete solution for light-intensive indoor growing, **covering all phases of plant development** from propagation through flowering.

Scientifically developed and patented horticultural growth spectra and high power CREE LEDs combined with wide distribution optics ensure **optimum plant growth and highest yields.**

CREE LEDS HORTICULTURE LINE



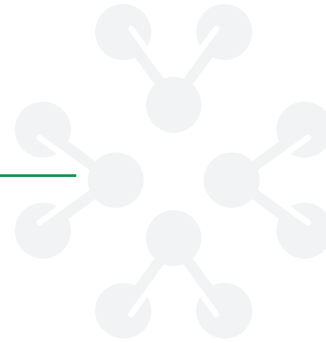
We always use a **professional line of CREE Horticulture POWER LED.**

It ensures stable operation lamp **50000-70000 hours.**

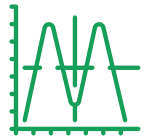


Cree LEDs deliver the industry's highest output and efficiency to enable the LED horticulture lights that are **more effective than traditional light sources** while also using less power.

LIGHT SPECTRUM



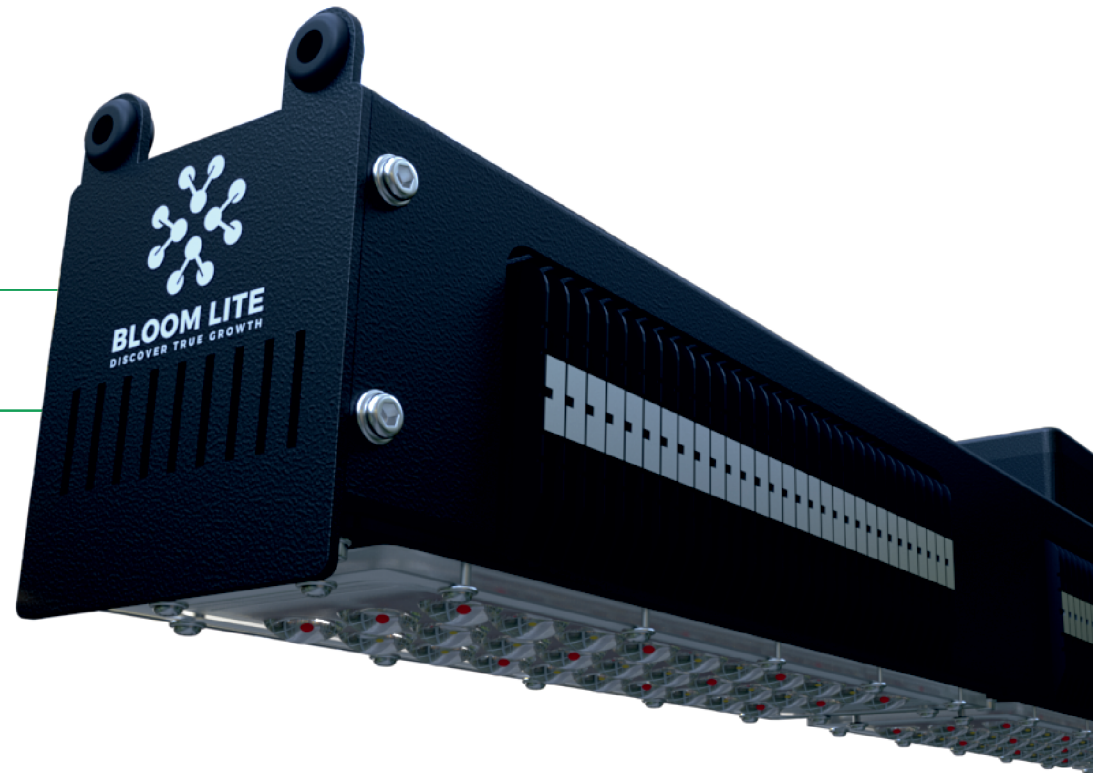
Hybrid Spectrum all stages of grow



BIOMASS TopLight from BloomLite® spectrum is known as the full cycle spectrum developed specifically to foster quality growth at each stage.

It produces fast germination and high quality vegetative and flowering plants.

Hybrid Spectrum maximizes red and blue nm wavelengths to allow for optimal chlorophyll A and B absorption with a balance of green wavelengths **to allow much deeper canopy penetration.**



MECHANICAL CONSTRUCTION



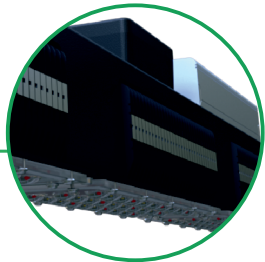
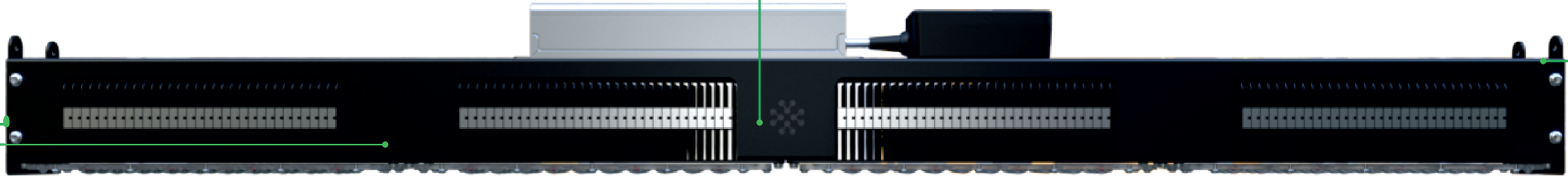
More functionality



Fixture housing is fabricated from laser cut and formed 5000 series aluminum sheet.



Black fixture finish is an electrostatically applied **Super-Durable TGIC polyester powder coating**.



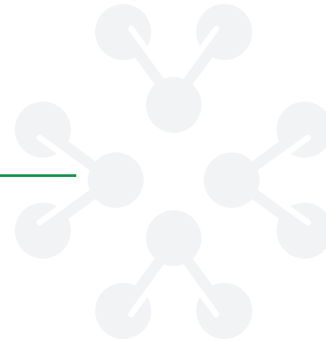
Finish is highly weather and **UV resistant** and provides superior gloss and color retention.



Additional bracing for grow tent and C profile also produced for you



ELECTRICAL SPECIFICATIONS AND CONTROL



Infinite control



Ultra-high efficient drivers from MEANWELL featuring the constant current mode and high voltage output.



Thanks to the high efficiency up to 95%, with the fanless design, the entire series is able to operate for -40°C~+85°C case temperature under free air convection.



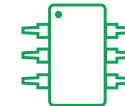
MEANWELL typical lifetime >50000 hours



5 years warranty



More control available



Output adjustable via potentiometer



3 in 1 dimming (dim-to-off)



Smart timer dimming (0~10Vdc, 10V PWM signal and resistance)



DALI technology



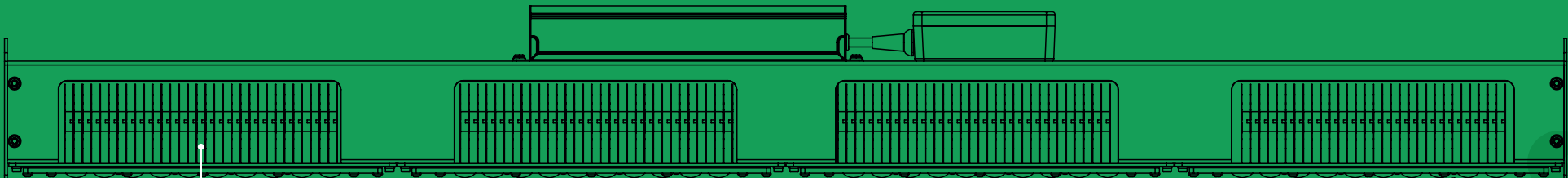
THERMAL MANAGEMENT



New generation
passive heat sink



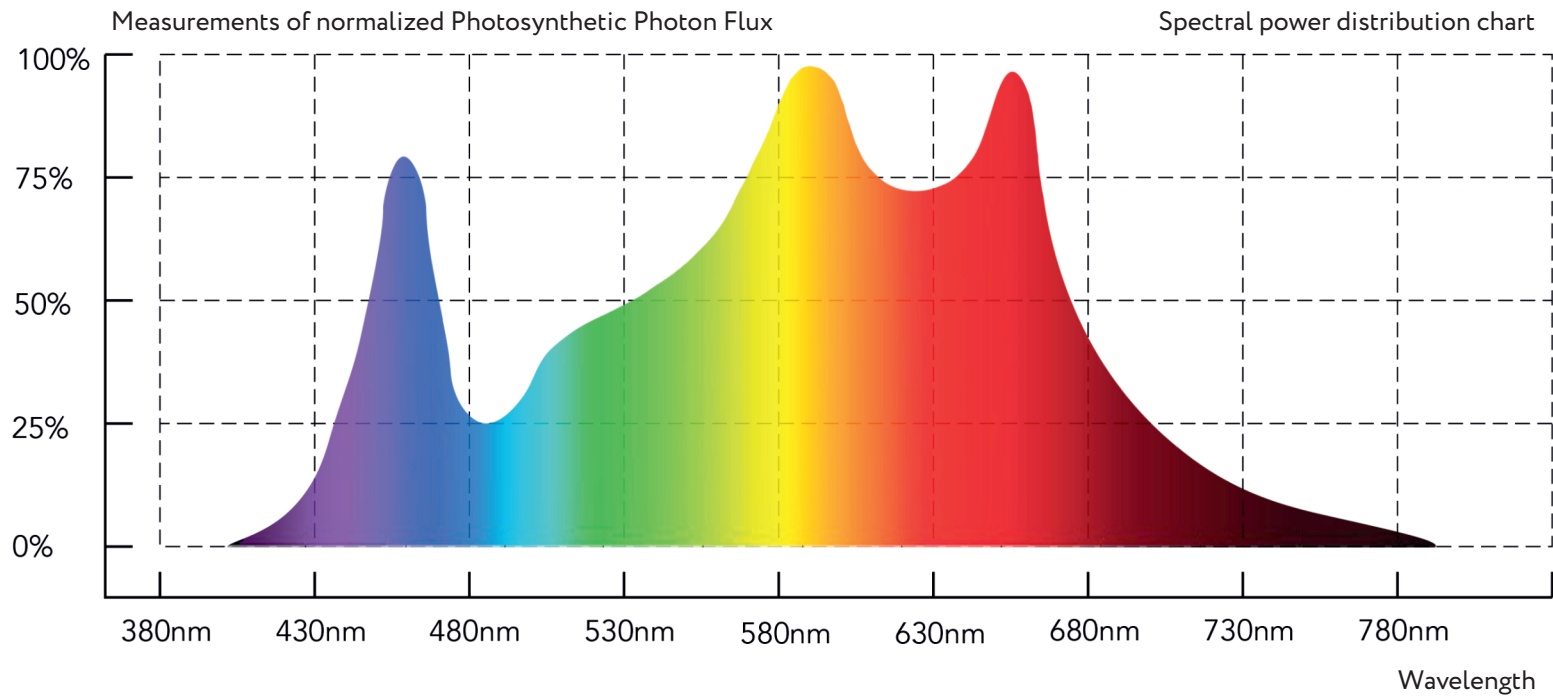
You will forget about
noisy fans, dusting and overheating



LED thermal management is accomplished by means of a **custom aluminium heatsink - produced by modern ECO-FIN technology.**

Black heat sink finish is an electrochemical anodizing process that converts the surface of the metal into a **long-lasting, high performance** aluminum oxide finish that cannot peel or chip.

SPECTRAL POWER DISTRIBUTION CHART



Quality + Quantity



All living organisms utilize light in two ways: a source of energy to drive photosynthesis, and a source of information to drive photomorphogenesis and photoperiodism by targeting specific signal-transducing photoreceptors.

We develop spectral composition solely for photobiological responses.

We don't design for visual acuity, and we don't mimic the sun's spectrum.

ELECTRICAL SPECIFICATIONS AND CONTROL

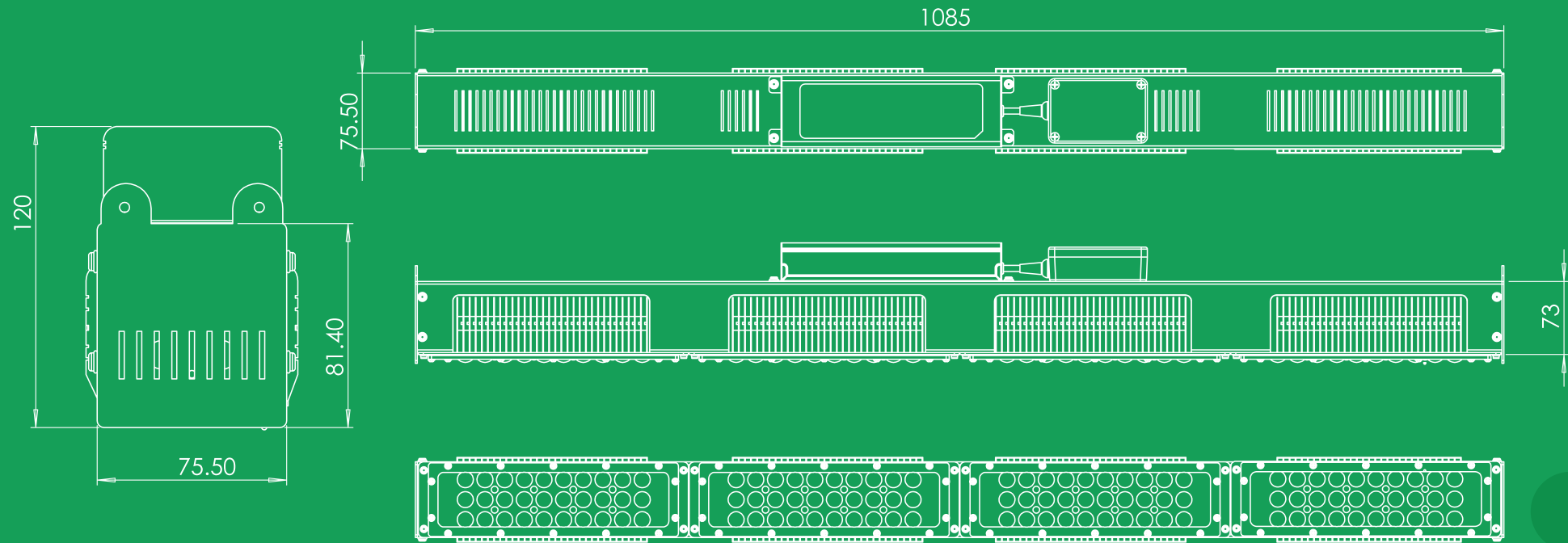


Performance Summary	Rating/Unit	Electric characters	Value
Power Consumption	240 Watts	Input voltage	100...305VAC
Typical Running Current	2.1A	Input current	MAX 1.43A
Operating Voltage	114.2V	Power factor (cos)	0.96
Active Photosynthetic Photon Flux PPF/W	600 $\mu\text{mol}/\text{m}^2/\text{s}$ 2,5	System efficiency ()	95%
Operating Temperature			
IP protection	Ip68		

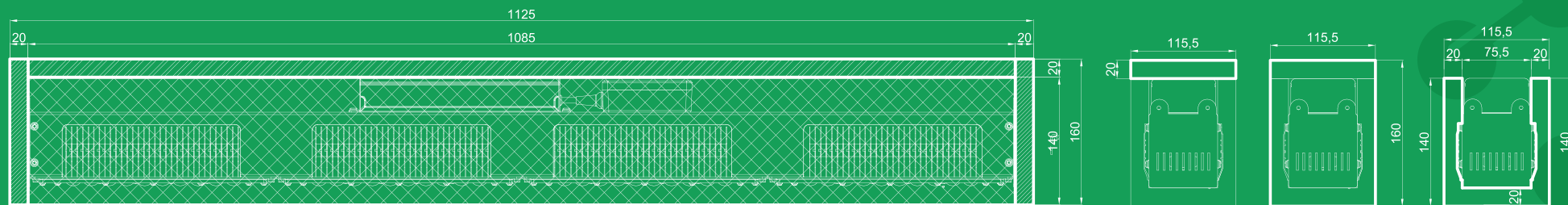
Light Control	Function	Note
1 Independent Light Channels	Io and Vo fixed	In Stock
1 Independent Light Channels	Io and Vo adjustable through built-in potentiometer.	By request
1 Independent Light Channels	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance)	By request
	Io and Vo adjustable through built-in potentiometer &	By request
1 Independent Light Channels	3 in 1 dimming function (0~10Vdc, 10V PWM signal and resistance	
1 Independent Light Channels	DALI control technology.	By request
1 Independent Light Channels	Built-in Smart timer dimming function by user request.	By request
1 Independent Light Channels	Built-in Smart timer dimming and programmable function	By request



PRODUCT DIMENSIONS



THE FULL DIMENSIONS OF THE PACKAGING



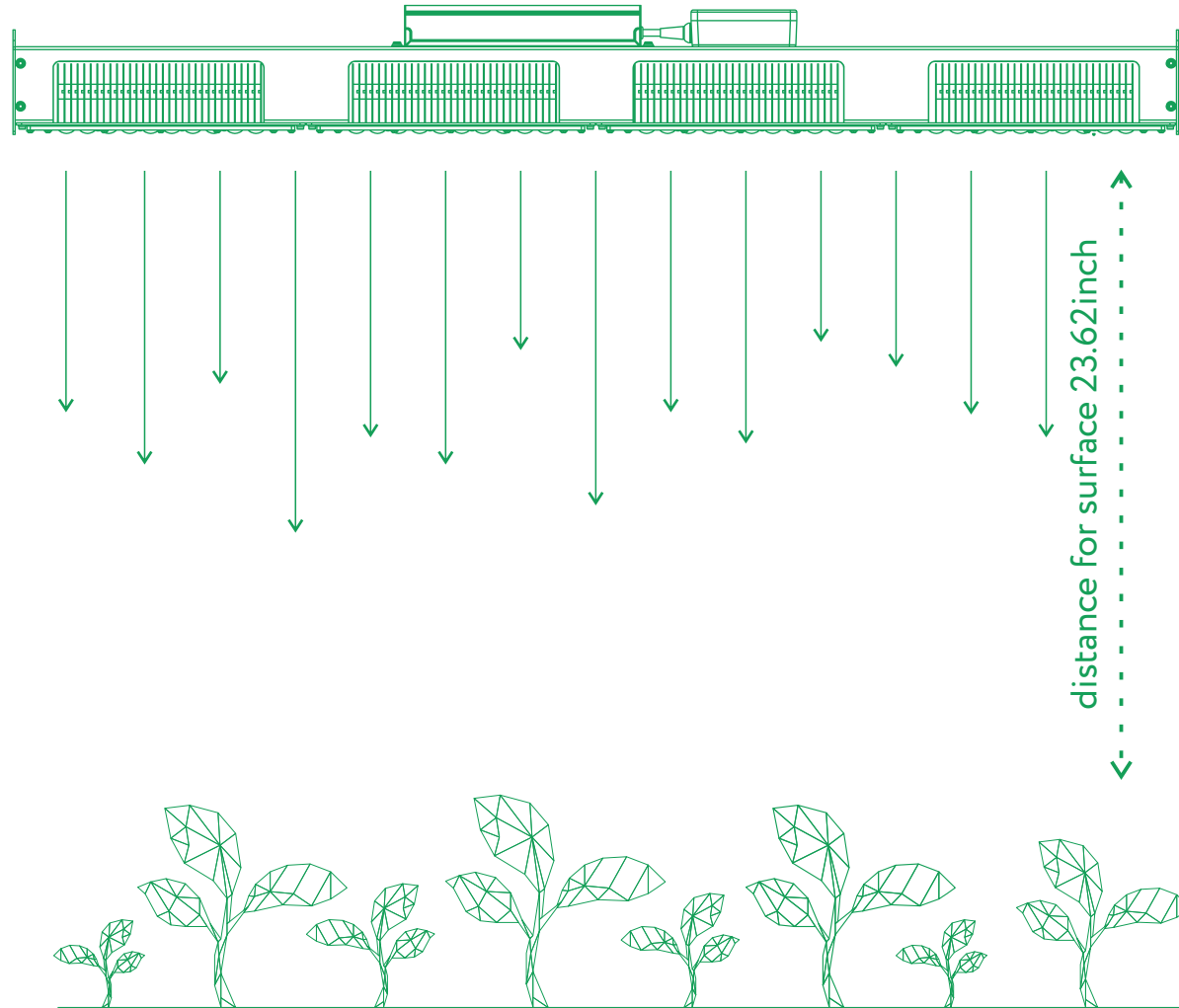
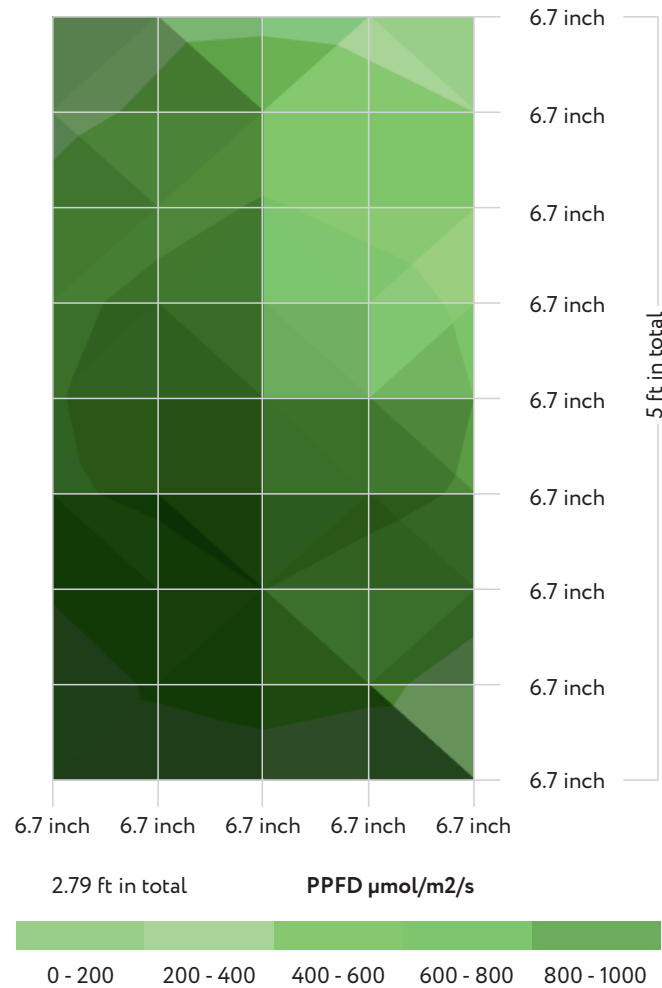
HYBRID SPECTRUM PAR MEASUREMENTS TEST VEGETATION STAGE

Hybrid Spectrum 1 light bars and 2 light bars - PAR measurements, distance for surface 23.62inch **Vegetation stage**

		2.79 ft in total					5 ft in total										
		6.7 inch	6.7 inch	6.7 inch	6.7 inch	6.7 inch	6.7 inch 6.7 inch 6.7 inch 6.7 inch 6.7 inch 6.7 inch 6.7 inch 6.7 inch 6.7 inch 6.7 inch 6.7 inch 6.7 inch										
5 ft in total	6.7 inch	220	234	255	235	230	174	207	227	215	189	164,66	174	207	227	215	189
	6.7 inch	233	315	340	320	263	233	281	311	292	263	225,82	233	281	311	292	263
	6.7 inch	310	360	401	365	334	289	345	385	358	334	282,80	289	345	385	358	334
	6.7 inch	388	415	444	426	389	359	403	444	426	412	350,23	359	403	444	426	412
	6.7 inch	395	430	466	446	399	367	421	466	446	436	364,86	367	421	466	446	436
	6.7 inch	380	420	449	428	387	360	403	449	428	416	352,84	360	403	449	428	416
	6.7 inch	322	375	406	382	358	322	357	406	382	358	308,93	322	357	406	382	358
	6.7 inch	274	314	354	327	299	274	314	354	327	299	260,32	274	314	354	327	299
	6.7 inch	221	279	285	276	230	238	293	300	311	270	231,05	238	293	300	311	270

HYBRID SPECTRUM PAR MEASUREMENTS TEST VEGETATION STAGE

BloomLite TopLight® Hybrid Spectrum
PAR measurements - distance for surface 23.62 inch
Vegetation stage



HYBRID SPECTRUM - PAR MEASUREMENTS TEST BLOOM STAGE



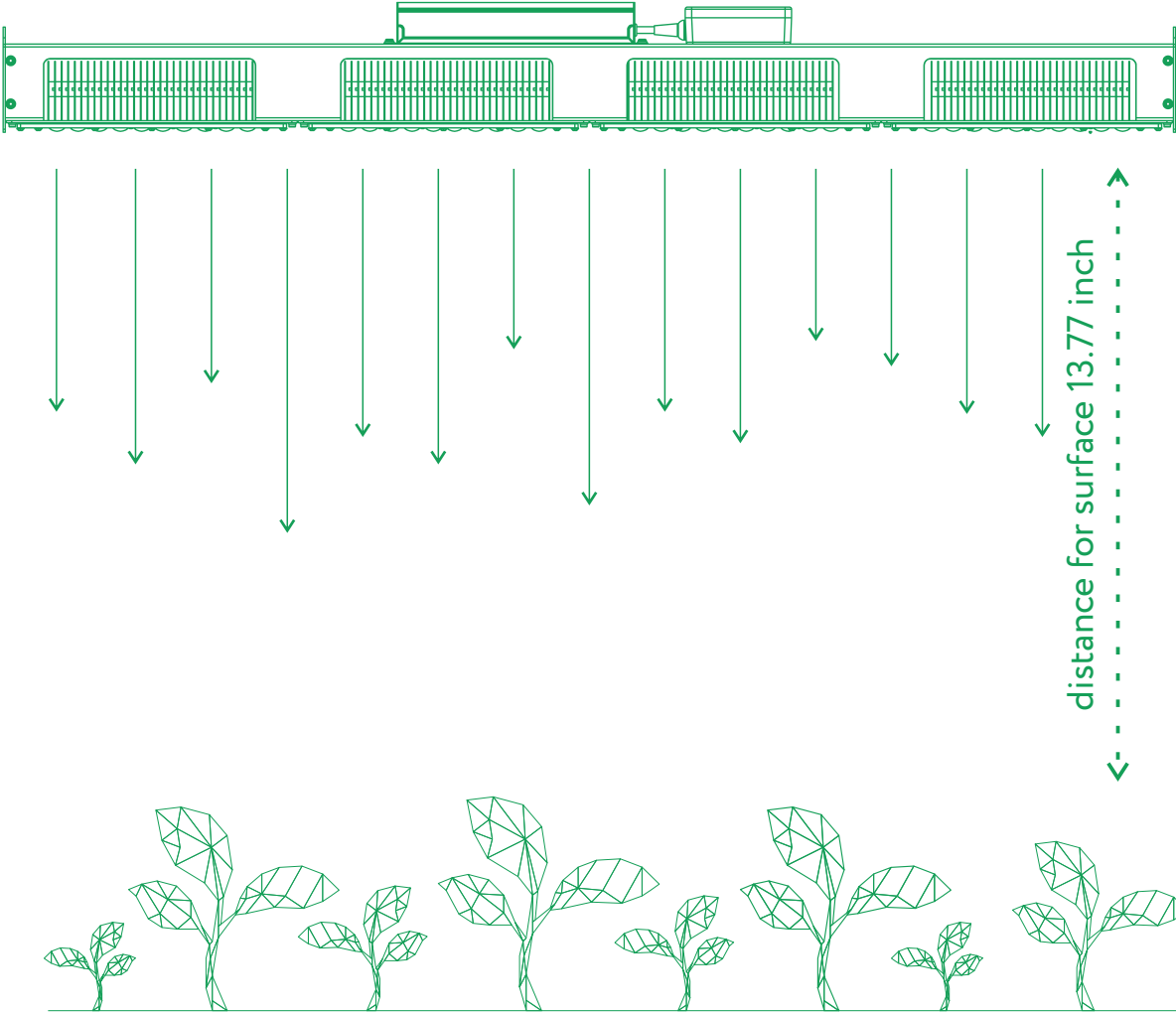
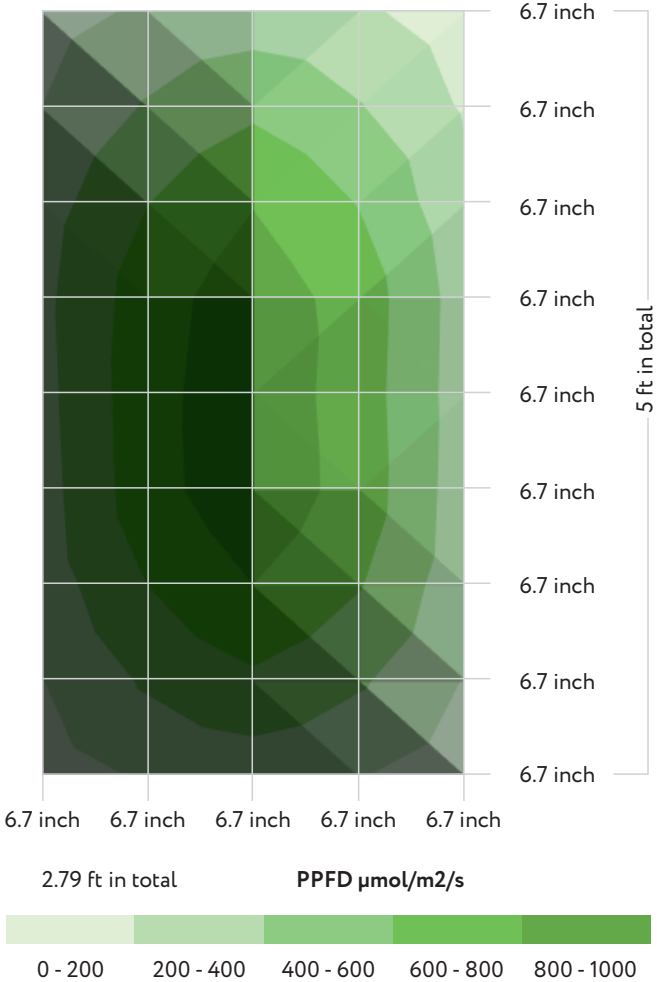
Hybrid Spectrum 1 light bars and 2 light bars - PAR measurements, distance for surface 13.77 inch Bloom stage

		2.79 ft in total					5 ft in total								
		6.7 inch	6.7 inch	6.7 inch	6.7 inch	6.7 inch	6.7 inch	6.7 inch	6.7 inch	6.7 inch	6.7 inch				
5 ft in total	6.7 inch	94,08	220,20	276,60	204,60	73,68	94,08	220,2	276,6	204,6	188,16	220,2	276,6	204,6	73,68
	6.7 inch	188,28	425,76	561,12	422,64	183,24	188,28	425,76	561,12	422,64	376,56	425,76	561,12	422,64	183,24
	6.7 inch	285,96	595,92	797,40	608,88	261,96	285,96	595,92	797,40	608,88	571,92	595,92	797,40	608,88	261,96
	6.7 inch	310,44	717,84	946,08	712,11	277,92	310,44	717,84	946,08	712,11	620,88	717,84	946,08	712,11	277,92
	6.7 inch	328,92	726,36	941,28	697,68	288,24	328,92	726,36	941,28	697,68	657,84	726,36	941,28	697,68	288,24
	6.7 inch	344,04	705,12	921,24	710,16	295,32	344,04	705,12	921,24	710,16	688,08	705,12	921,24	710,16	295,32
	6.7 inch	307,44	591,72	789,24	586,56	245,04	307,44	591,72	789,24	586,56	614,88	591,72	789,24	586,56	245,04
	6.7 inch	195,36	416,88	557,4	408,12	171,72	195,36	416,88	557,40	408,12	390,72	416,88	557,40	408,12	171,72
	6.7 inch	106,56	232,32	288,72	231,96	83,4	106,56	232,32	288,72	231,96	213,12	232,32	288,72	231,96	83,40



HYBRID SPECTRUM PAR MEASUREMENTS TEST BLOOM STAGE

BloomLite TopLight® Hybrid Spectrum
 PAR measurements - distance for surface 13.77 inch
 Bloom stage



CONTACTS



BLOOM LITE
DISCOVER TRUE GROWTH

TEZLi LTD

Total Grow Light Solution

- lighting manufacturer
 - lighting system solution
 - instalation and integration
-



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