



# G110B LED Grow Lights

A patent-pending compact LED artificial luminaire that featuring with specific spectrum to promoting photosynthesis for plants throughout the vegetative and reproductive growth stages.



General Characteristic		Light Characteristic	
Body structure	Aluminium alloy profile fitted with proprietary PMMA multiple-lens water resistance clear diffuser	Light source	Lumiled SMD3035 high intensity InGaN LED or equivalent
Thermal	LED module & housing	Colour temperature	3000K, 4000K, 5000K (white)
Cable gland type	Stainless steel	Full spectrum (400~800nm)	See wavelength curve below
Rated life span	≥50000 hours (accumulative)	Colour rendering index	Ra >80
Ingress protection	IP65	Luminous efficacy	≥160 lumens per watt
Industrial standard	EMC Directive 2004/108/EC	Luminous efficiency	≥95%
Operation temperature	-40°C ~ +60°C	Beam angle (optional)	45°/60°/90°/120°/asymmetrical
Mounting brackets	100° tiltable brackets (both ends)		
Certification	CE, FCC, RoHS		
Relative moisture	10% ~ 90%		
Total harmonic distortion	<15%		
Electrical Characteristic		Mounting bracket	
Input voltage	100~305VAC, 47~63Hz	<p>Picture on right shows the image of bracket mounted on both ends of the luminaire. The casting direction of grow light towards the plant of green wall or vegetables in the green house could be freely tilted up to maximum of 100 degrees. Tilting direction marks and the mechanical lock are provided to prevent any accidental variation of light shining direction after setting.</p>	
Rated power	250W		
Power factor	PF ≥0.95		
Power efficiency	>95%		
System power	263W		
Certification	CE, TUV, RoHS compliant		
Protection	Over voltage protection; over current protection; overheat protection; short-circuit protection		
<p>90° photometric beam angle</p>		<p>120° photometric beam angle</p>	
		<p>Spectrum wavelength curve</p>	

## Polythematic Photon Flux Density (PPFD)

Model #	Rated Power	Luminous Efficacy	3000~3500K	4000~4500K	5500~6000K
G1411B01-025W050KX	50W	8000 lumens	148.10 μmol/s	138.05 μmol/s	137.66 μmol/s
G1411B02-050W100KX	100W	16000 lumens	296.21 μmol/s	276.10 μmol/s	275.32 μmol/s
G1411B02-050W120KX	120W	19200 lumens	355.45 μmol/s	331.32 μmol/s	330.38 μmol/s
G1411B03-075W150KX	150W	24000 lumens	444.31 μmol/s	414.15 μmol/s	412.98 μmol/s
G1411B04-100W200KX	200W	32000 lumens	592.42 μmol/s	552.20 μmol/s	550.64 μmol/s
G1411B05-125W250KX	250W	40000 lumens	740.52 μmol/s	690.25 μmol/s	688.30 μmol/s
G1723B06-150W300KX	300W	48000 lumens	888.62 μmol/s	828.30 μmol/s	825.96 μmol/s
G1723B08-200W400KX	400W	54000 lumens	1184.83 μmol/s	1104.40 μmol/s	1101.28 μmol/s
G1723B10-200W500KX	500W	80000 lumens	1481.04 μmol/s	1380.51 μmol/s	1376.60 μmol/s

## Module Code

 Module 1411B01	 Module 1411B02	 Module 1411B03	 Module 1411B04
 Module 1411B05	 Module 1723B06	 Module 1723B08	 Module 1723B10

## Product Specifications

Model number	Rated Power	System Power	Luminous Efficacy	Size Overall (mm)	Packaging (mm)		
					Net Weight	Gross weight	Carton size
G1411B01-025W050KX	50.0W	52.6W	8000	353 x 115 x 144	1.8kg	2.3kg	390 x 170 x 200mm
G1411B02-050W100KX	100.0W	105.3W	16000	620 x 115 x 144	3.3kg	4.0kg	650 x 170 x 200mm
G1411B02-050W120KX	120.0W	126.3W	19200	620 x 115 x 144	3.3kg	4.0kg	650 x 170 x 200mm
G1411B03-075W150KX	150.0W	157.9W	24000	887 x 115 x 144	4.3kg	5.2kg	920 x 170 x 200mm
G1411B04-100W200KX	200.0W	210.5W	32000	1154 x 115 x 144	4.9kg	6.0kg	1170 x 170 x 200mm
G1411B05-125W250KX	250.0W	263.2W	40000	1421 x 155 x 144	5.7kg	7.0kg	1450 x 170 x 200mm
G1723B06-150W300KX	300.0W	315.8W	48000	947 x 230 x 173	8.7kg	10.2kg	950 x 280 x 220mm
G1723B08-200W400KX	400.0W	412.1W	54000	1214 x 230 x 173	10.5kg	12.3kg	1240 x 280 x 220mm
G1723B10-200W500KX	500.0W	526.3W	80000	1481 x 230 x 173	12.4kg	14.4kg	1500 x 280 x 220mm

## Applications

Indoor façade green-wall



G110B grow light series is designed for typical indoor façade green-walls that suitable for variety of plant species. It provides specific spectrum that incorporating the growth medium for plants, such as soil, substitute, or hydroculture felt as well as integrated hydration and fertigation delivery system.

Greenhouse vegetable facility



Similar to the indoor façade green-wall application, G110B modular LED grow lights could enhance the photosynthesis to promote the growth of vegetables inside the greenhouse after sunset and cloudy day.