

G663100ZB-160W080RBW

80W wireless control switchable color grow lights for hydroponic

A patent pending LED grow lights featuring with dark red, dark blue and white color to provide various spectrum for the needs of plants being cultivated. The respective light colors and its density could be remotely control by setting of various scenes through WPANs (wireless personal area networks) gateway.



General Characteristic

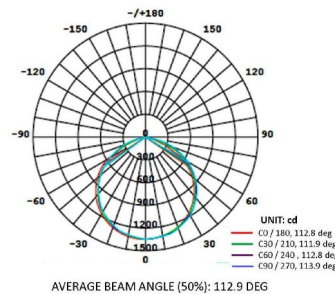
Body structure	6063 aluminium alloy
Thermal management	Integrated with housing
Diffuser	Clear tampered glass
Rated life span	≥50000 hours (accumulative)
Ingress protection	IP66
Industrial standard	EMC Directive 2004/108/EC
Certification	CE, FCC, RoHS
Operation temp	-40° ~+60°C (max)
Relative moisture	10% ~ 90%
Length overall	1015mm
Sectional dimension	68 x 40mm (width x height)
Total harmonic distortion	<15%

Light Characteristic

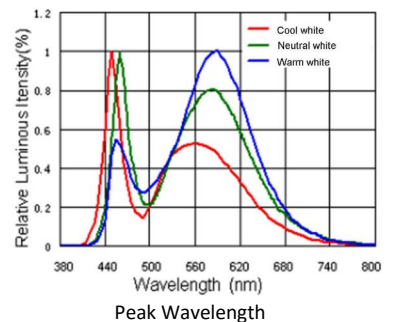
Light source	SMD2835 (high intensity chips)
Color rendering index	Ra ≥80
Color temperature (white)	6000~6500K/full spectrum (optional)
Luminous efficacy	5200 lumen
Peak wavelength (red)	664nm
Peak wavelength (blue)	452nm
Color switching pattern	All red, all blue, red/blue/white mix, red/blue mix, all white
Beam angle	120 degrees
RF interference	NO

Electrical Characteristic

Input power	90~265VAC, 47/63Hz
Input current	0.198A (230V)
Output voltage	45V
Output current	0.91A
Rated power	45W
Power factor	PF ≥0.95
Efficiency of power source	>87%
Power efficiency	>85%



Typical Spectral Distribution



Wireless communication system

Network	Wi-Fi ZigBee gateway (GSM)
Gateway	IEEE 802.15.4 working on 2.4GHz radio band
Platform	Android OS
Protocol version	ZigBee 2007/PRO
Coordinator device	ZigBee routers (USB v3.1 type C)
Transmission distance	30 meter radius
Input voltage	5Vdc
Frequency	2.4G
Rx sensitivity	-97dBm
Operation temperature	-20°C ~ 70°C
Operating software	iLightsin (free downloaded from Google Play Store)

