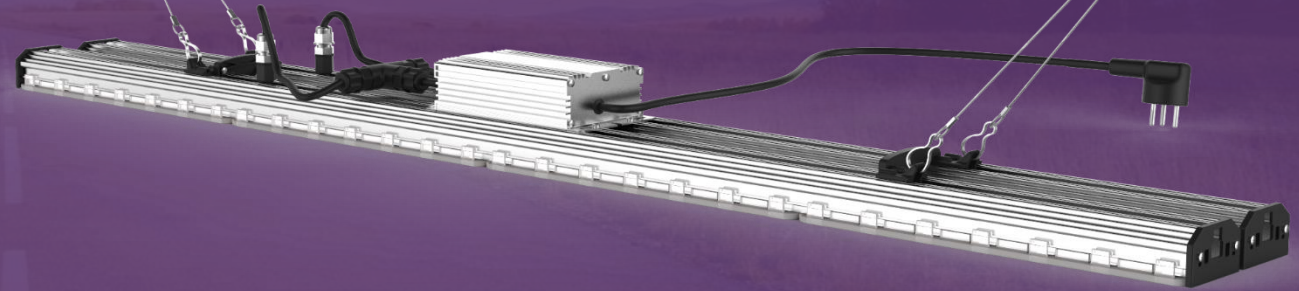


# **FULL SPECTRUM Growlight: LED Growpower 160W**

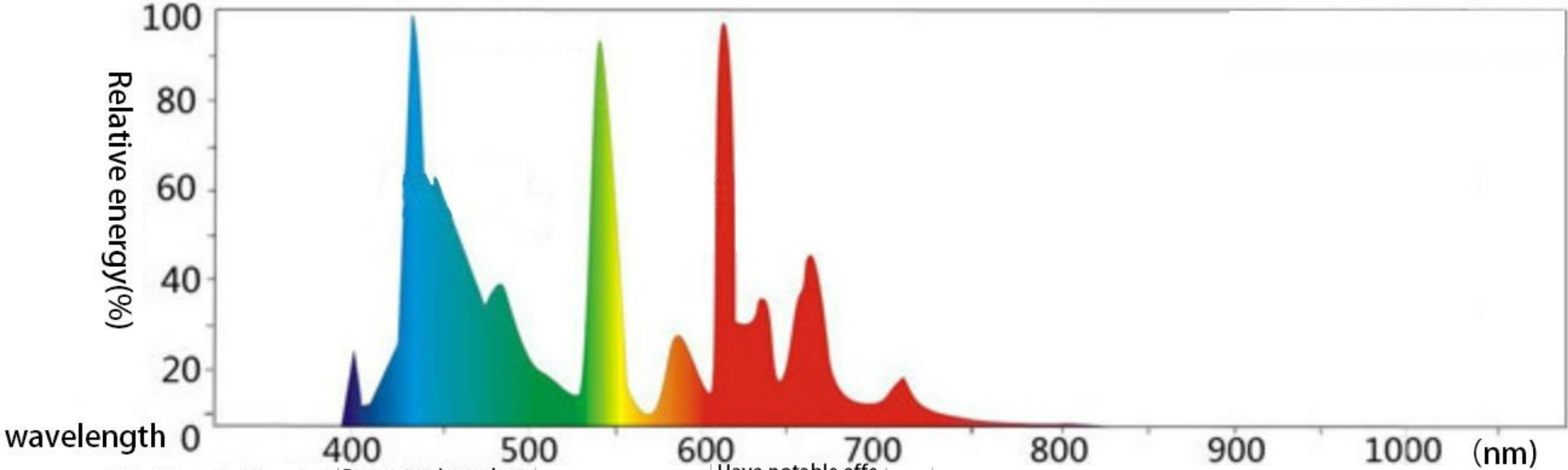


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# LED Growpower 480W



315-400nm Let the plant become shorter, leaves become fleshy, promote seedling. Below 280nm is harmful to plant growth, the plant will wither.

Promote plant photosynthesis. Chlorophyll and carotenoids absorb the largest percentage of blue light. If lack of blue light will make plant dwarf or yellow.

Less effect on photosynthesis, but provide nutrients for plants.

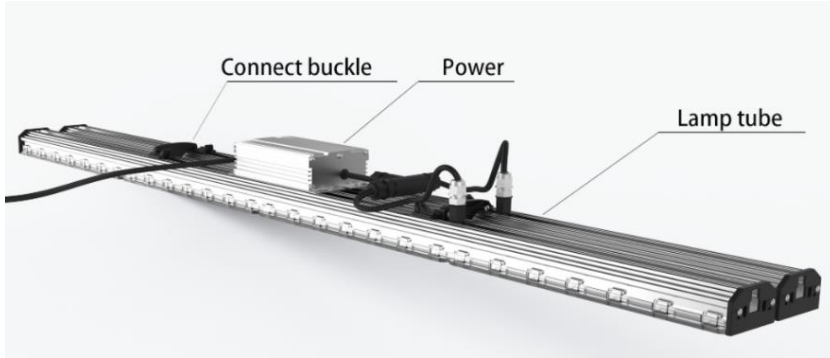
Have notable effect on photosynthesis and photoperiodic effects, can make plant grow fast, influencing seedling and flowering.

720 740

800nm less effect on photosynthesis, >1000nm convert into heat.

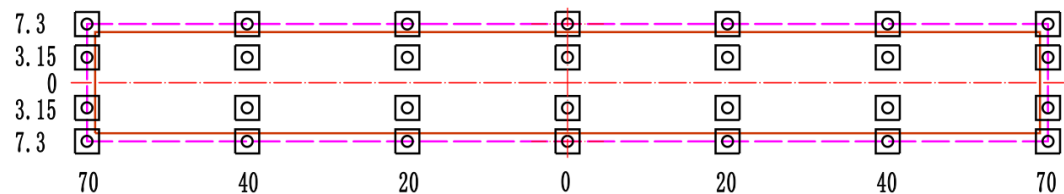
Influencing flowering and seedling, especially indoor or place without sunlight need this.

# LED Growpower 160W—Function

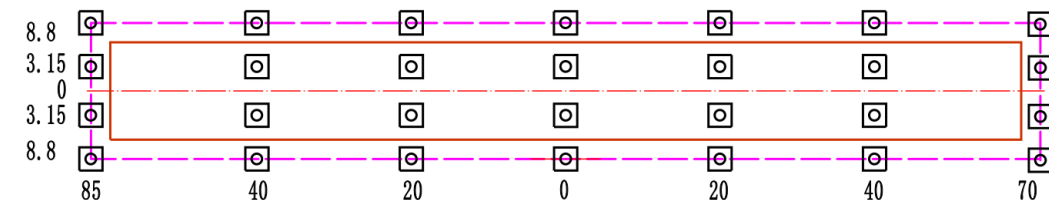


1. 160W Full spectrum and high-power grow light.
2. Power: 160W , PPF:435 $\mu$ mol/s, PPE:2.1-2.7  $\mu$ mol/J
3. Adjust the light intensity and lighting time by the controller (optional).
4. Beam angle :90°,enhancing 30% of PPFD on plants compared with the products of 120° beam angle. It can promote photosynthesis of plants and increase growth rate and yield.
5. PPFD $\geq$ 1240 $\mu$ mol/m<sup>2</sup>s@7.9"
6. Full spectrum led, the main wavelength contains 390nm, 450nm, 630nm, 660nm and 730nm. According to customer needs.
7. Sosen or meanwell driver, Samsung 、SSC or Customer-designated LEDs.
8. Provide light for herbs, fruits, vegetables, flowers and other heliophile to achieve normal photosynthesis of plants.
9. Provide light for Abel planting system and basement, plant tents, multi-layered plants for medicinal plants.
10. Easy to install, can be used in planting tents, basements, plant factories
11. Depending on the spectral needs of the plant, different spectrum curves can be customized for the customer.
12. Unique lens, directional illumination, energy saving 10-50%.

# LED Growpower 160W---PPFD



Test point at 20cm 7.9"



Test point at 50cm 19.7"

**PPFD@7.9"** ( $\mu\text{mol}/\text{m}^2\text{s}$ )

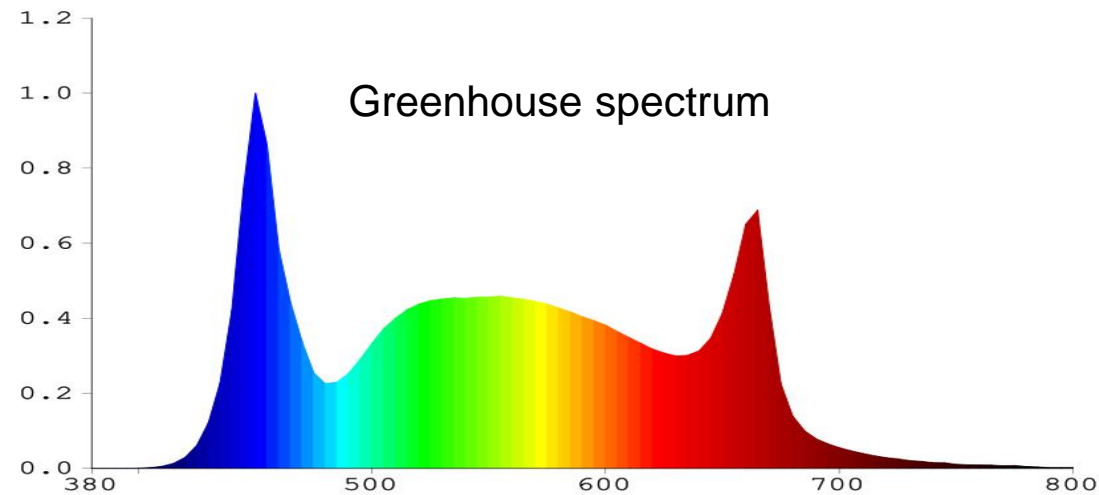
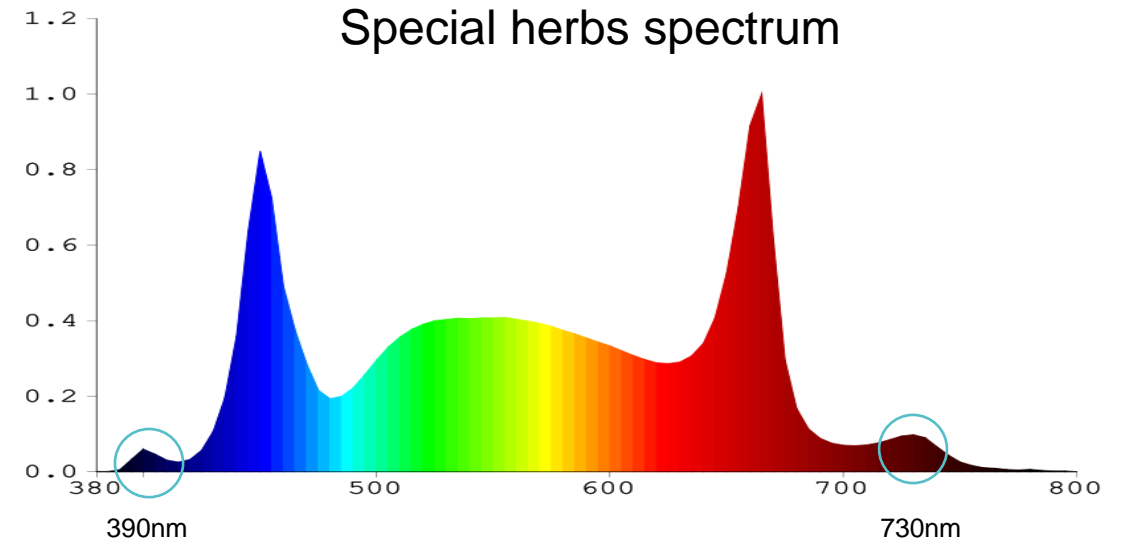
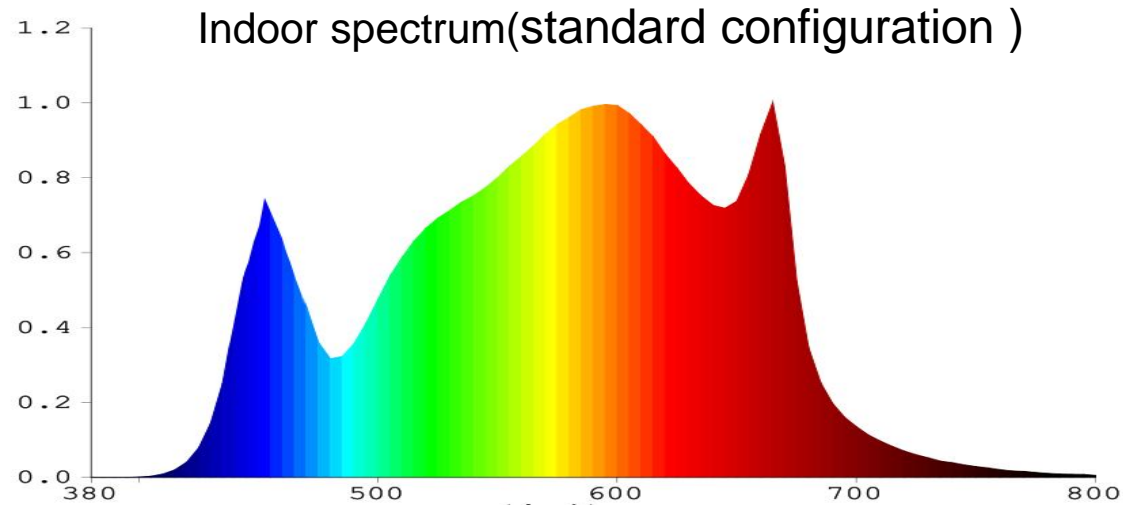
336	659	687	796	796	687	659	336
390	945	1011	1140	1140	1011	945	390
390	945	1011	1140	1140	1011	945	390
336	659	687	796	796	687	659	336

**PPFD@19.7"** ( $\mu\text{mol}/\text{m}^2\text{s}$ )

142	263	286	315	315	286	263	142
170	305	387	435	435	387	305	170
170	305	387	435	435	387	305	170
142	263	286	315	315	286	263	142

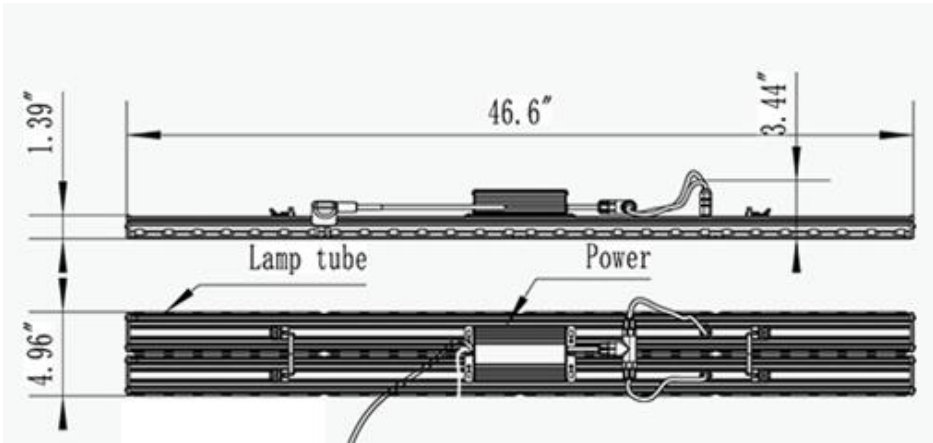
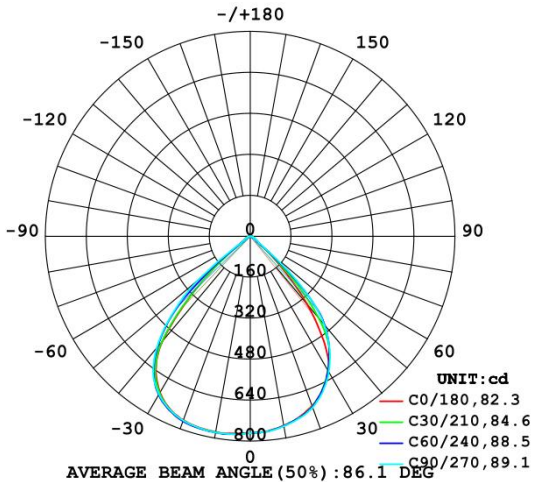


# LED Growpower 160W---Spectrum



# LED Growpower 160W—Specification

Beam angle



Fixture Dimensions

Product Name	LED GROWPOWER 160W	Beam angle	90° or 120°
PPF(max)	435μmol/s	Main wavelength(select)	450、470、630、660、730nm
PPFD@7.9"	≥1240(μmol/m²s)	Net weight	4000g
Input power	160W	Lifetime	L80: > 50,000hrs
PPE	2.1-2.7μmol/J	Power Factor	> 90%
Input voltage	100-277VAC	Working Temperature	-20°C—40°C
Fixture Dimensions	46.6" L x 5" W x 3" H	Certification	CE/FCC/ROHS/ETL
Mounting Height	≥5.5" (14cm)Above Canopy	Warranty	3yrs
Thermal Management	Passive	IP level	IP65
Dimming (Select)	0-10V , PWM	Tube QTY.	2