

## PlanteLED Optima Product Card



### Basic data:

- case made of aluminium
- Power Factor: 0,98
- index of protection: IP66\*
- lamp equipped with LED light source made in COB technology
- light source lifespan: 100 000 hours (approx. 11 years of constant lighting)
- beam angle: 90°/ 120°
- modular structure – each element of the fixture can be replaced independently
- passive heat dissipation
- warranty: 5 years



\* - accounts for ingress protection of all electrical parts such as diode, driver, wires

### Model

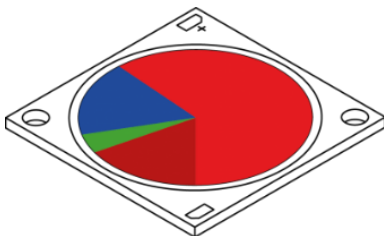
Model	LED power [W]	Total power [W]	Designated area [mm]	LED efficiency [ $\mu\text{mol/W}$ ]*	PPF [ $\mu\text{mol/s}$ ]*
PlantLED Optima	450	470	1200 x 2000	2,32	1044,00

\* - accounts only for PAR, not include Far Red

### Dimensions

Model	Length [mm]	Width [mm]	Height [mm]	Weight [kg]
PlantLED Optima	1650	160	135	11,20

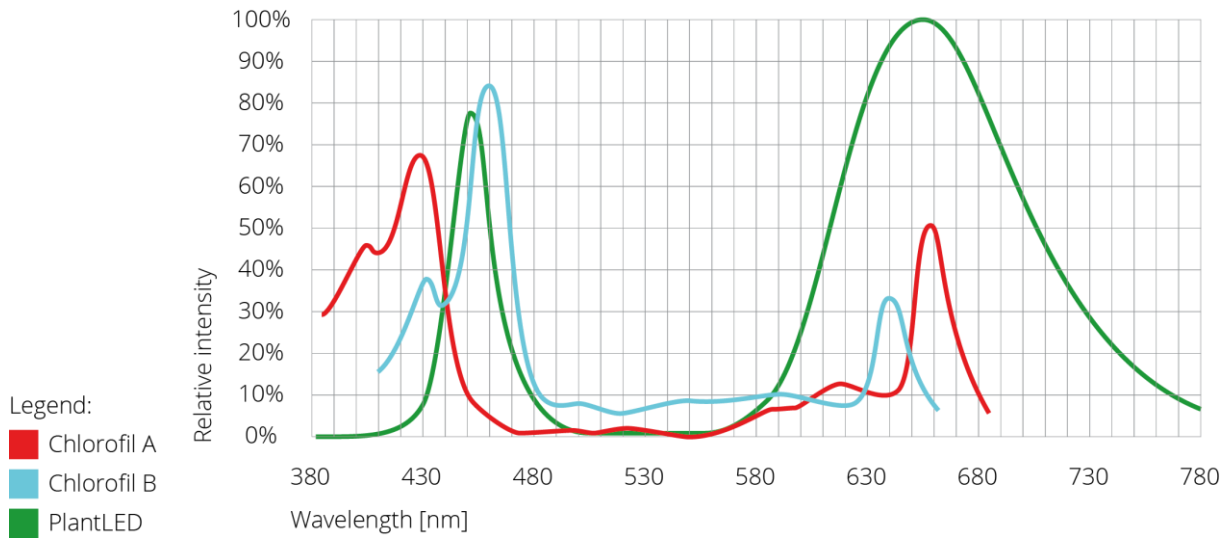
### Light spectrum - description



**PowerRed** – LED COB of significantly high total red to blue ratio (87:13). What is worth mentioning is very high far red percentage that equals 20% of the entire spectrum. Such composition of wavelengths lets achieve satisfactory effects especially in terms of cultivation of vegetables, fruits and blooming flowers.

Range [mm]	400 – 700 (PAR)	700 – 800 (far red)	600 – 700 (red)	500 – 600 (green)	400 – 500 (blue)	380 – 400 (UV)
Share	80%	20%	65%	3%	12%	0%

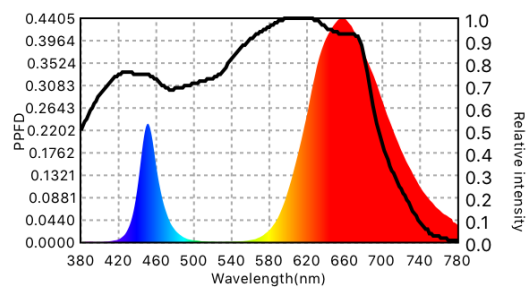
## Light spectrum – chlorophyll A and B



## Light spectrum - PPFD

### PPFD Spectrum

Ref.: McCREEs ACTION SPECTRUM



### Original Spectrum

Ref.: McCREEs ACTION SPECTRUM

