

PlanteLED Bonum 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

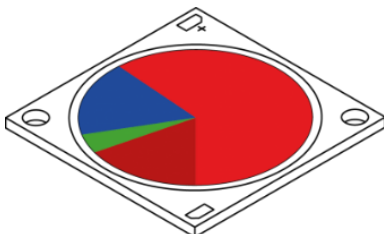
| Model | LED power [W] | Total power [W] | Designated area [mm] | LED efficiency [$\mu\text{mol/W}$]* | PPF [$\mu\text{mol/s}$]* |
|----------------|---------------|-----------------|----------------------|---------------------------------------|----------------------------|
| PlantLED Bonum | 185 | 198 | 1000 x 1000 | 2,32 | 429,20 |

* - accounts only for PAR, not include Far Red

Dimensions

| Model | Length [mm] | Width [mm] | Height [mm] | Weight [kg] |
|----------------|-------------|------------|-------------|-------------|
| PlantLED Bonum | 550 | 160 | 135 | 4,80 |

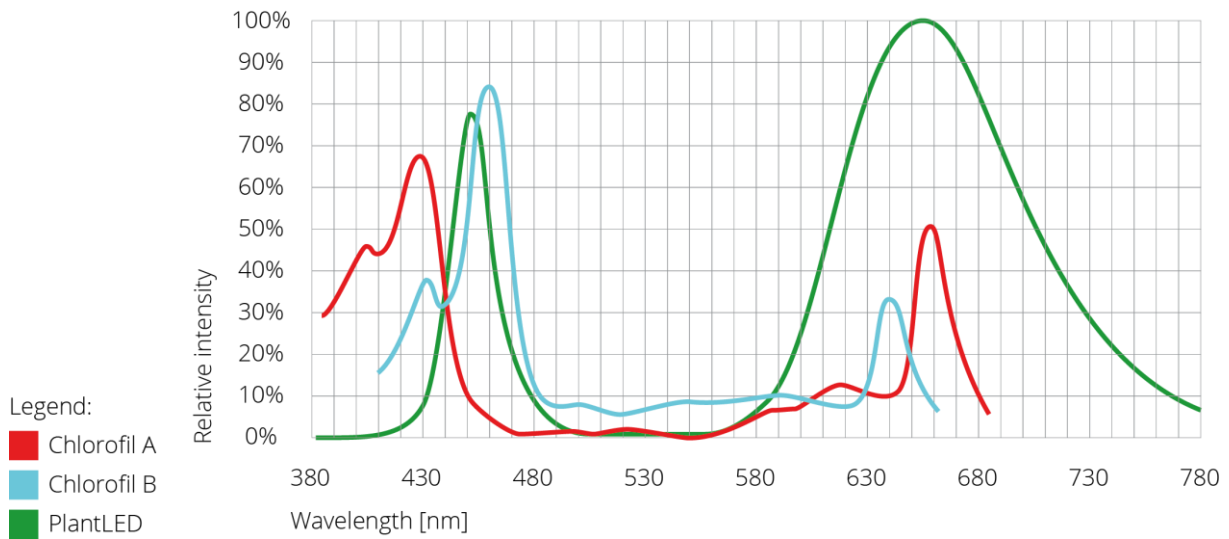
Light spectrum - description



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 [nm] | 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% |

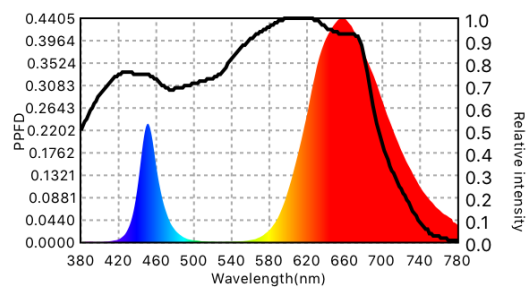
Light spectrum – chlorophyll A and B



Light spectrum - PPFD

PPFD Spectrum

Ref.: McCREEs ACTION SPECTRUM



Original Spectrum

Ref.: McCREEs ACTION SPECTRUM

