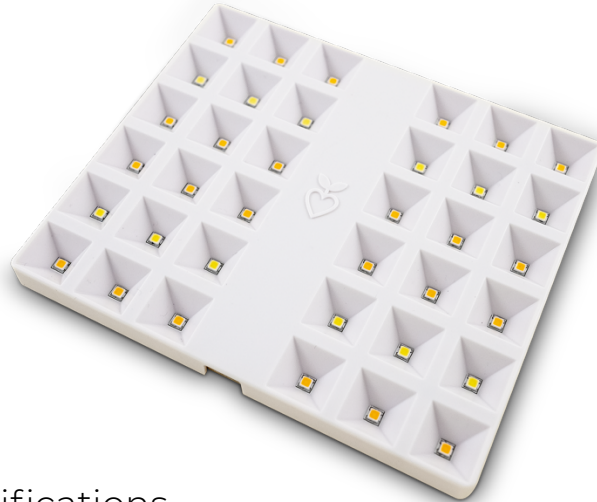


# Product Datasheet: CultiKit LED<sup>36</sup>



## Technical Specifications

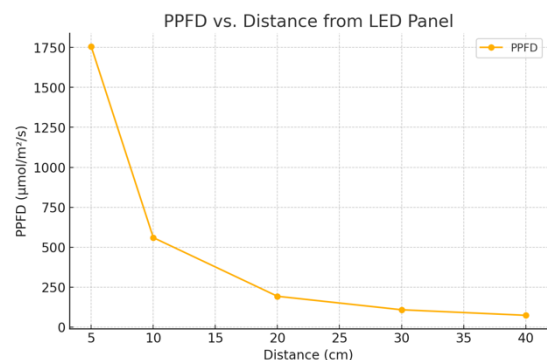
- **Model:** CultiKit LED<sup>36</sup> (MK\_230808LED V1.0)
- **LEDs:** 36 pcs Samsung LM301B (12 x 5000K + 24 x 3000K)
- **Power Consumption:** 5-18W
- **Luminous Efficacy:** 220 lm/W
- **Spectrum Range:** 400-700 nm (PAR range)
- **Dimensions:** 140 x 120 x 10 mm ( BxDxH)
- **Weight:** 116 g
- **Supply Source:** 24V DC PSU
- **Input Voltage:** 24V DC
- **Output Voltage:** 3.3V DC  $\pm$  5%
- **Output Current:**  $\geq$  1A

## Light Output and PPFD

- **Total Luminous Flux:** 18W \* 220 lm/W = 3960 lumen
- **PPF (Photosynthetic Photon Flux):** 18W \* 3,0  $\mu$ mol/J = 54  $\mu$ mol/s

## Photosynthetic Photon Flux Density at Different Distances

Distance (cm)	PPFD ( $\mu$ mol/m <sup>2</sup> /s)
5 cm	1755
10 cm	560
20 cm	192
30 cm	108
40 cm	73



*Measurements are estimated based on adjusted calculations and may vary depending on environmental conditions.*

## Daily Light Integral (DLI)

- DLI is calculated as:  **$DLI = PPFD * 3600 \text{ sec/h} * \text{light hours} / 1.000.000$**
- Example: At **PPFD = 250  $\mu\text{mol/m}^2/\text{s}$**  and **16 hours of light**:  
 $DLI = 250 * 3600 * 16 / 1.000.000 = 14,4 \text{ mol/m}^2/\text{day}$

## Recommended Usage

- **Seedlings and Cuttings:** 100-200  $\mu\text{mol/m}^2/\text{s}$
- **Vegetative Growth:** 200-400  $\mu\text{mol/m}^2/\text{s}$
- **Flowering:** 400-600  $\mu\text{mol/m}^2/\text{s}$

For optimal results, we recommend combining multiple panels to achieve even coverage over a larger area. The panels are most effective at a distance of 5-20 cm from the plants. We recommend a distance of 30-40 cm for seedlings/cuttings, 20-40 cm for vegetative growth, and 5-10 cm for flowering/fruiting.

## Conformity



Hereby, Culti ApS declares that the equipment is in compliance with Directive 2014/53/EU. See the full text of the EU declaration of conformity at:

[www.cultiplantsystems.com/culti-dk/EU-Declaration-of-Conformity.pdf](http://www.cultiplantsystems.com/culti-dk/EU-Declaration-of-Conformity.pdf)

## Manufactured by

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