

# LIGHTING DEVELOPMENT KIT

Order Code: 150 001, Version 2.0



Lighting Development Kit,  
Order Code: 150 001

## Characteristics

- Horticulture LED panel for plant grow with Deep Blue, Hyper Red, Far Red and White and up to 30  $\mu\text{mol/s}$  output
- Color mixing panel with Red, Green, Blue and White LED – for different ambient lights and up to 300 lm output
- White LED panel to imitate natural light based on Human Centric Lighting – up to 1050 lm and 21  $\mu\text{mol/s}$  output
- 4 Channel LED driver with Mag<sup>3</sup>C Power Module 172 946 001
- Dimming via Bluetooth control (260801 1024000)
- For your lightning development
- Intensity of each channel can be adjusted individually (dimming 0 – 100 %)
- App "WEilluminate" to perform dimming
- PWM dimming method – controlled by PIC16F1527 microcontroller. Dimming profiles and colors can be stored
- Conducted and radiated EMI compliant (EN55015 & EN55032)
- Good thermal behavior
- Robust industrial Bluetooth® LE – Module based on Nordic nRF52832 high power efficient with low power profile

### Horticulture Panel WL-SMDC

Order Code:  
150353DS74500 (Deep Blue)  
150353HS74500 (Hyper Red)  
150353FS74500 (Far Red)

### WL-SWTP

Order Code:  
158353050 (Daylight)

### RGBW Panel WL-SMDC

Order Code:  
150353RS74500 (Red)  
150353GS74500 (Green)  
150353BS74500 (Blue)

### WL-SWTP

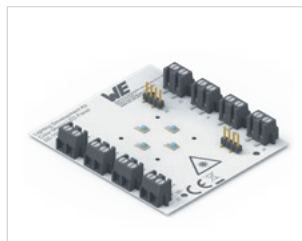
Order Code:  
158353050 (Daylight)

### Sunshine Panel WL-SWTP

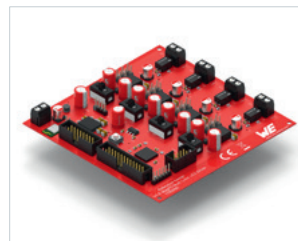
Order Code:  
158303250A (Daylight)  
158303227A (Sunrise)



Horticulture Panel



RGBW Panel



1780050 Mag<sup>3</sup>C LED Driver



Sunshine Panel

The all-in-one Lighting Development Kit provides an easy solution to either mix RGBW color for different lighting situations or amplify the growth of plants with the Horticulture Panel. The Mag<sup>3</sup>C Multi Color 4 channel LED driver can power the included panels.

With a Mag<sup>3</sup>C LED Step Down High Current Module (172946001) as its heart it is possible to set the intensity and color of each of the 4 LED strings individually to meet the applications needs. Easy control and adjustment via bluetooth module (260801 102400) and WEilluminate app.

