photobiologyLEDs Version 0.3.0 Catalogue of LEDs

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1 Introduction

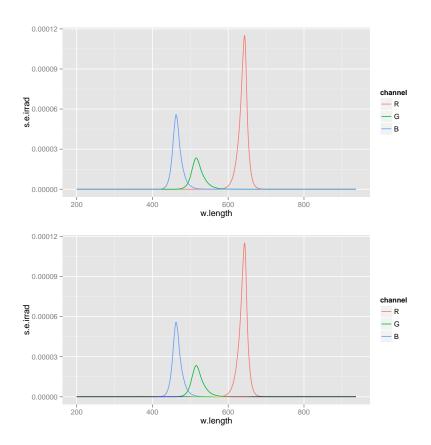
We will plot the emission spectra of the different LEDs for which data is provided in the pacakge. We plot the spectra as spectral energy irradiance. All spectra are normalized to an area of one under the whole curve.

```
library(ggplot2)
library(photobiology)
library(photobiologyLEDs)
library(photobiologygg)

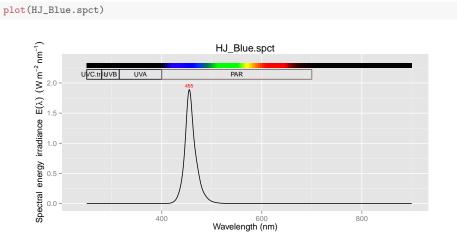
options(photobiology.plot.annotations = c("boxes", "labels", "colour.guide", "peaks", "title"))
```

2 Norlux LED arrays

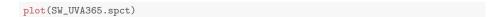
2.1 RGB array

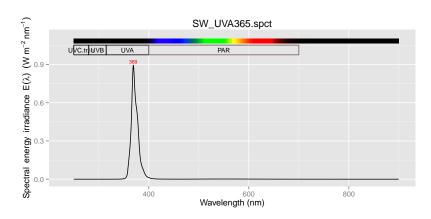


3 Huey-Jann LED arrays



4 Shenzhen Weili LED arrays

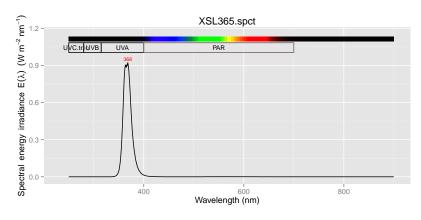


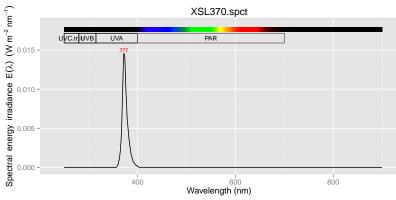


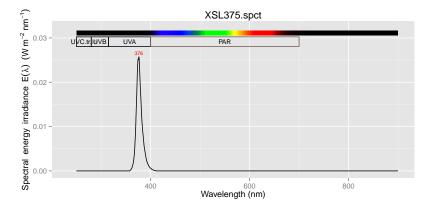
5 Roithner Laser LEDs and LED arrays

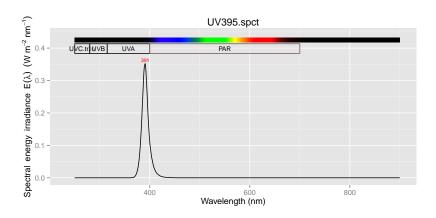
5.1 UV-A

```
plot(XSL365.spct)
plot(XSL370.spct)
plot(XSL375.spct)
plot(UV395.spct)
```

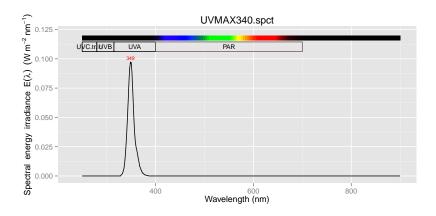






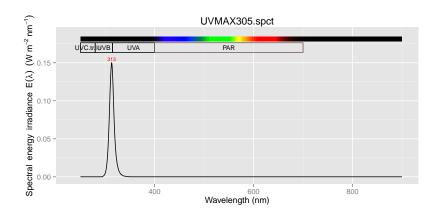


plot(UVMAX340.spct)



5.2 UV-B

plot(UVMAX305.spct)



6 Tao Yuan LEDs

6.1 UV-B

TY_UV310nm.spct

TY_UV310nm.spct

TY_UV310nm.spct

TY_UV310nm.spct

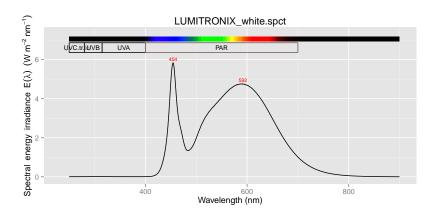
OC.IT,UVB UVA PAR

OO. BOO Wavelength (nm)

7 LUMITRONIX LED arrays

7.1 Natural white

plot(LUMITRONIX_white.spct)



8 Other LEDs and LED arrays

```
plot(white.spct)
plot(LED405.spct)
plot(LED740.spct)
plot(CB30.spct)
plot(BS436.spct)
```

