

photobiologyLEDs Version 0.2.1

Catalogue of LEDs

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1 Introduction

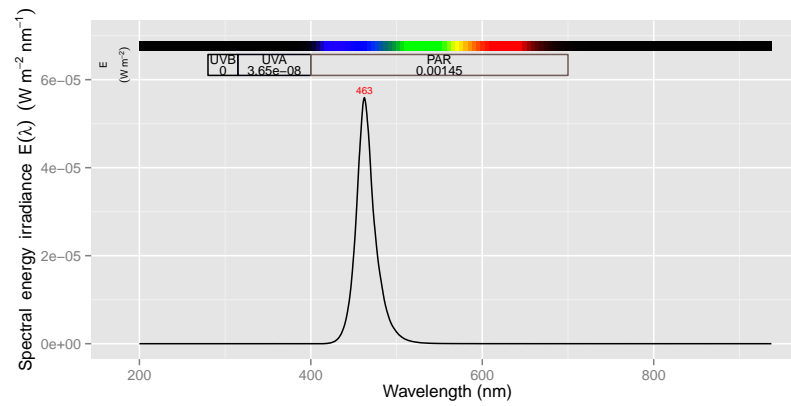
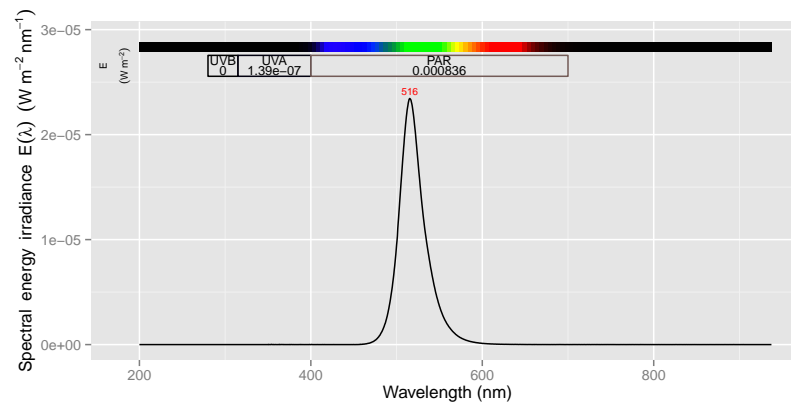
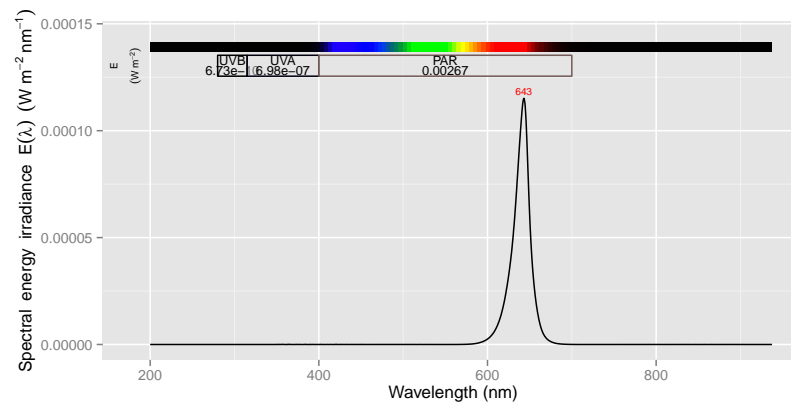
We will plot the emission spectra of the different LEDs for which data is provided in the package. We plot the spectra as spectral energy irradiance. All spectra are normalized to an area of one under the whole curve.

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

2 Norlux LED arrays

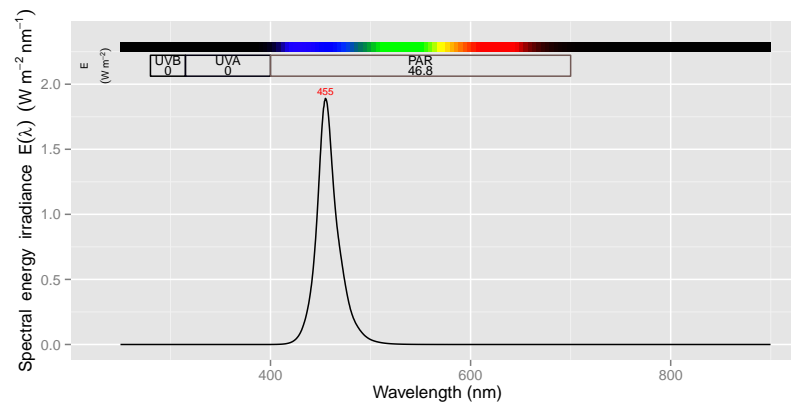
2.1 RGB array

```
plot(Norlux_R.spct)
plot(Norlux_G.spct)
plot(Norlux_B.spct)
```



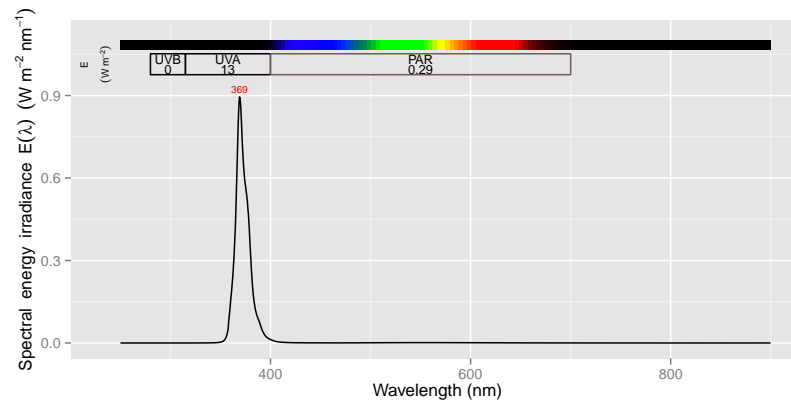
3 Huey-Jann LED arrays

```
plot(HJ_Blue.spct)
```



4 Shezhen Weili LED arrays

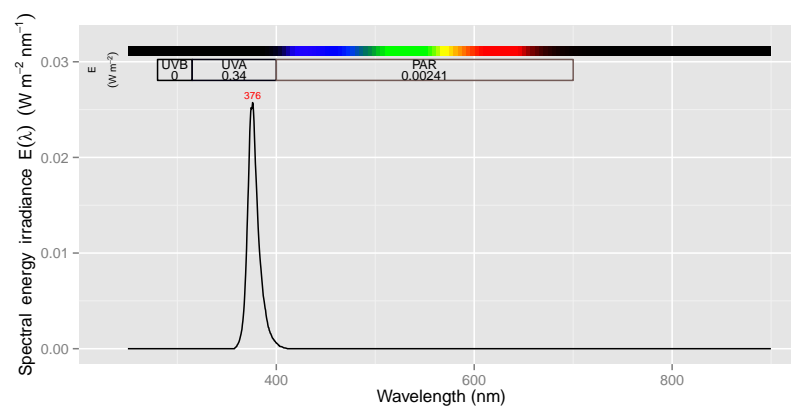
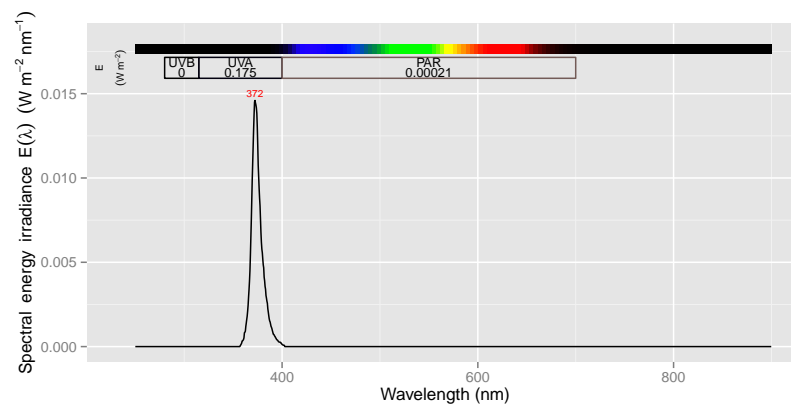
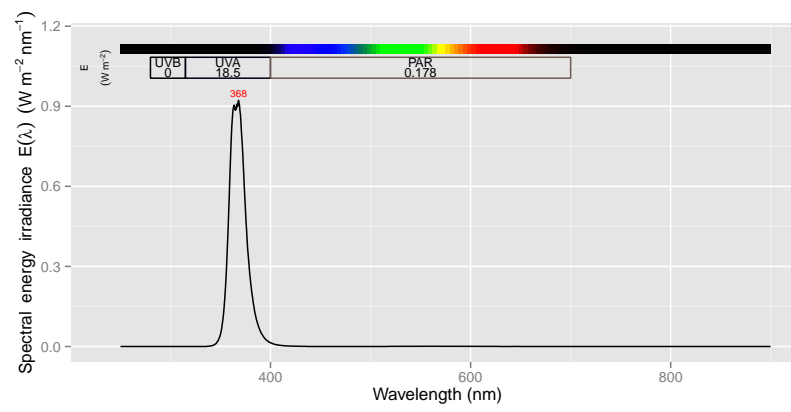
```
plot(SW_UVA365.spct)
```

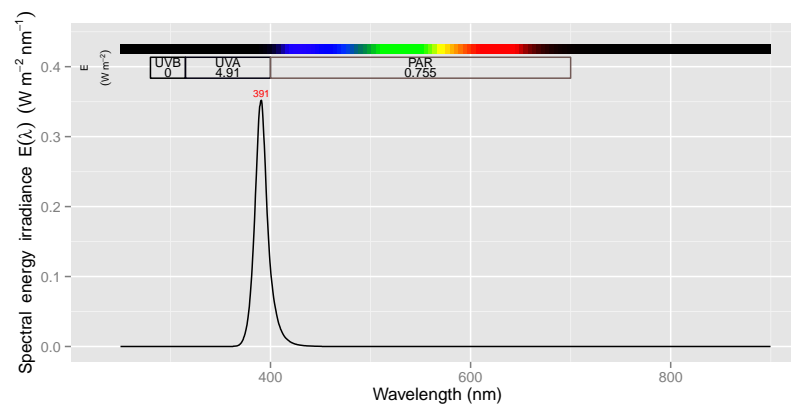


5 Roithner Laser LEDs and LED arrays

5.1 UV-A

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

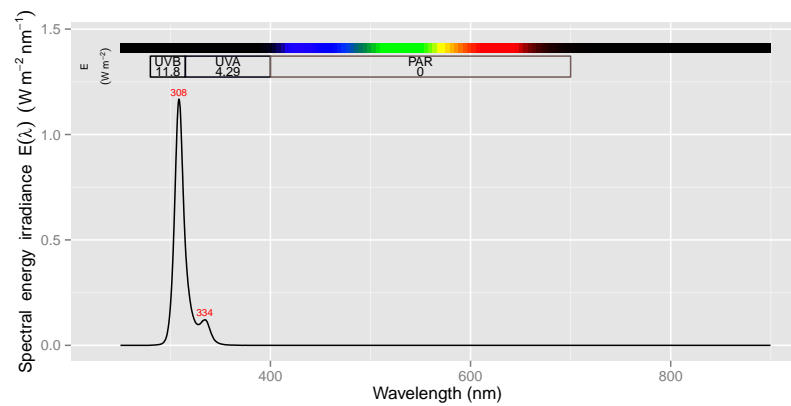




6 Tao Yuan LEDs

6.1 UV-B

```
plot(TY_UV310nm.spct)
```



7 Other LEDs and LED arrays

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

