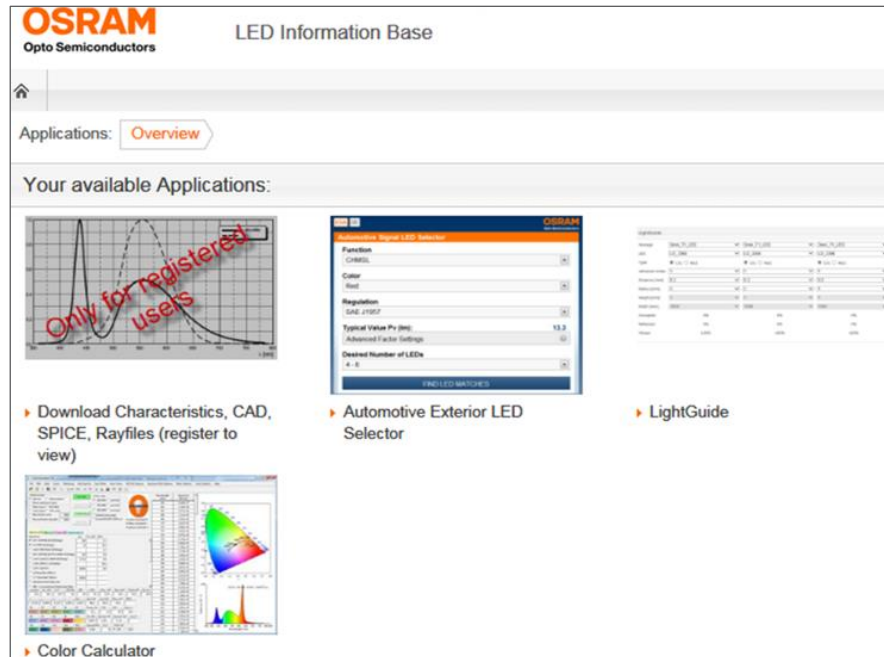


LED Information Base (LIB) - Customer Portal

The LIB Customer Portal is the central entry point for developers and engineers for all technical data which is easily downloadable



- **Download Characteristics:**
 - CAD Data
 - P-SPICE Electrical Simulation
 - Rayfiles Optical Simulation
- **Automotive Exterior LED Selector**
 - for Automotive Signal Lighting
- **LightGuide**
 - used for LCD backlight or automotive interior applications for calculating optical power losses in rigid optical light guides.
- **Color Calculator**
 - aids in designing color mixing LED lighting solutions using three main modes of operation

LIB Registration URL: <https://apps.osram-os.com/Account/Register>

- To use the LIB, a one-time registration is required to set up a user name
- A temporary password will be emailed to you after registration which you should change upon your first sign-on

LIB URL: <https://apps.osram-os.com/>

LED Information Base (LIB) - Data Overview

- **Download Characteristics***

- Light beam shape data information on changes in LED brightness (Phiv_rel), forward voltage (Vf), and shifting dominant wavelength (Ldom) due to changes in junction temperature and drive current
- All LED power spectra is normalized in LIB database
- The following data is included:
 1. CAD Data* - CAD drawings of packages LED 3 D CAD files (Step, Solidworks, IGES)
 2. P-SPICE* - Electrical simulation library for electronic circuit simulations
 3. Rayfiles* - For all major optical simulation & design software including: ASAP, Lighttools, Lcidshape, Photopia, Simulux, Speos, TracePro, Zemax

* Only for Registered Users - a one-time registration is required to set up a user name. To register, please go to: <https://apps.osram-os.com/Account/Register>.
A temporary password will be emailed to you after registration which should be changed upon your first sign-on to the LIB.

- **Automotive Exterior LED Selector**

- Enables designers and engineers to quickly and easily select automotive signal lighting LEDs by function, color, regulatory requirements, luminosity and the number of LEDs required

- **LightGuide**

- Used for LCD backlight / automotive interior applications
- Calculates optical power losses in rigid optical light guides to get a first look if a certain LED is suitable for the intended application
- Estimates how much light is captured or incoupled from the LED and into the light guide, the amount of light lost due to reflected light from the light guide entrance portal and directed back towards the LED and can also roughly calculate the amount of light that misses the entrance portal to the light guide and is lost to the outside world

- **Color Calculator**

- Aids in designing color mixing LED lighting solutions using three main modes of operation:
 1. General Photometry - The user either selects the intensity of several LEDs or inputs a spectrum and the program calculates several photometric quantities
 2. Design Optimization - A set of desired photometric values are specified by user and the program calculates the intensity of the LEDs required for the design
 3. Total Combinations - The user specifies a set of LEDs and the program calculates all of the designs possible.