

# BSDF Simulation Files for Optis

Luminit offers BSDF simulation files for our Light Shaping Diffusers® (LSD®) through the Optis library. This document goes over how to locate and download these files from Ansys and import to CAD software. For further information, assistance, or to order our product, contact us at [sales@luminitco.com](mailto:sales@luminitco.com).

## How To Download from Ansys

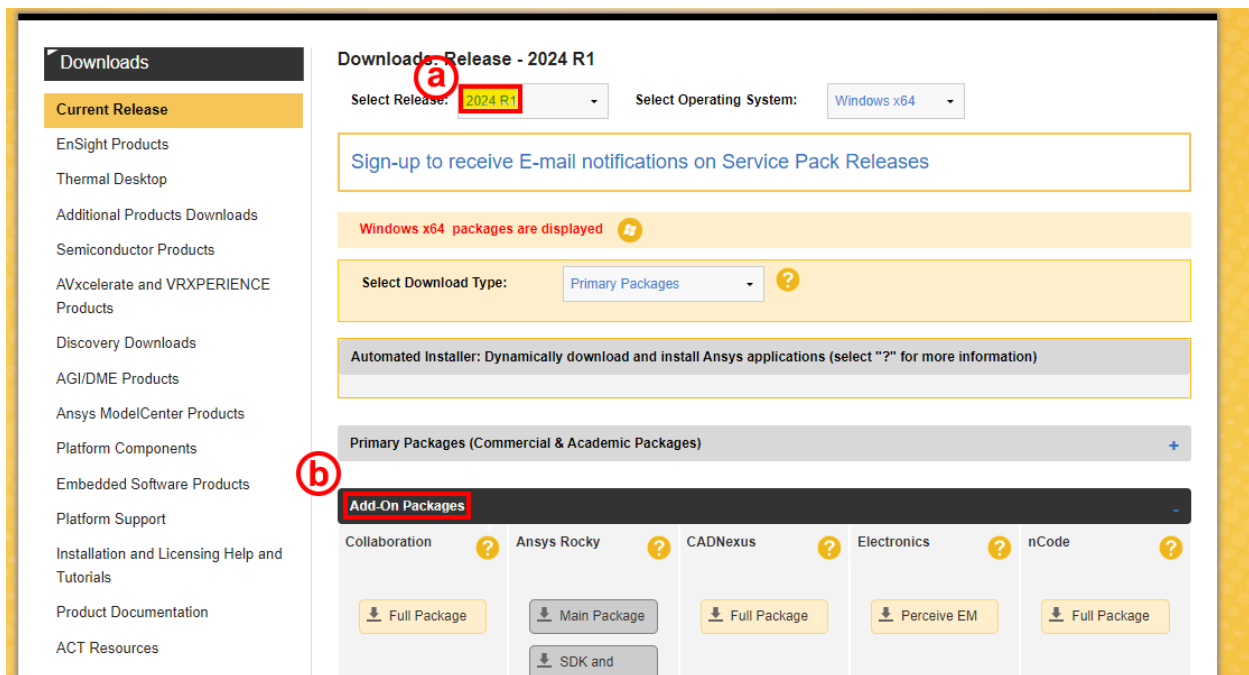
1. Log in to your Ansys account
2. Select the 2024 R1 software release from the Dashboard as shown below

Note: materials have not been added to the downloads page yet

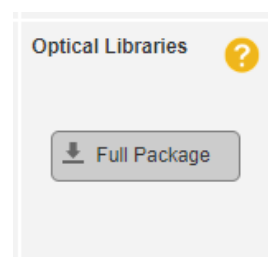
- a. Select “2024 R1” on the “Select Release” dropdown menu
- b. Expand the “Add-On Packages” accordion section

The files have been migrated here:

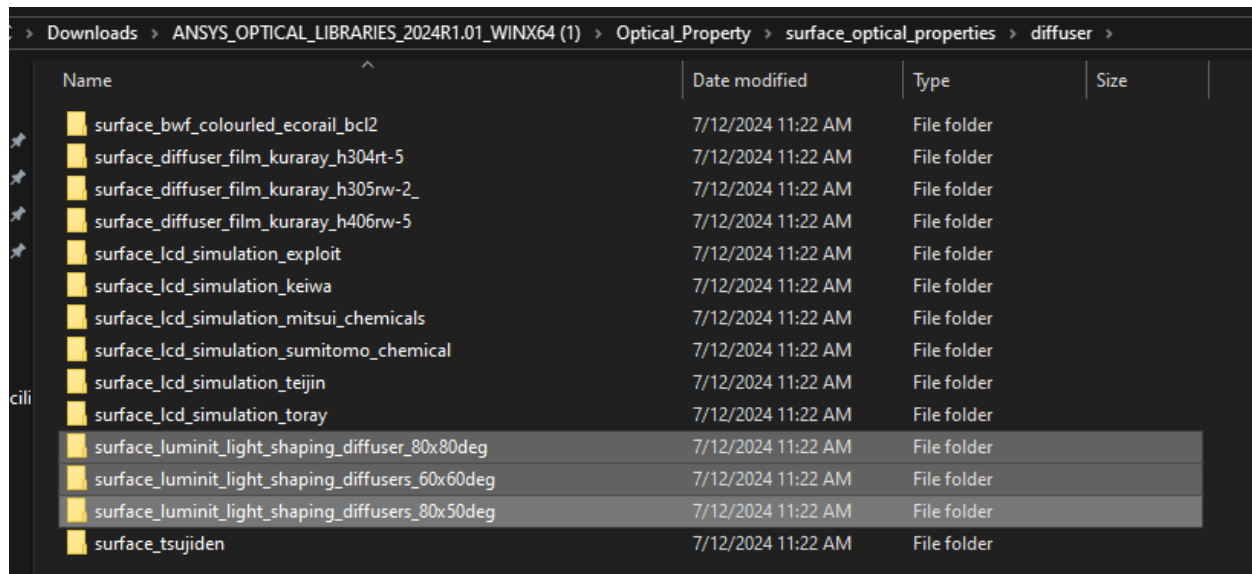
<https://download.ansys.com/Current%20Release?release%20no=2024%20R1&operatingsystem=Windows%20x64>



3. Find the Optical Libraries section and click the “Full Package” button to download the files



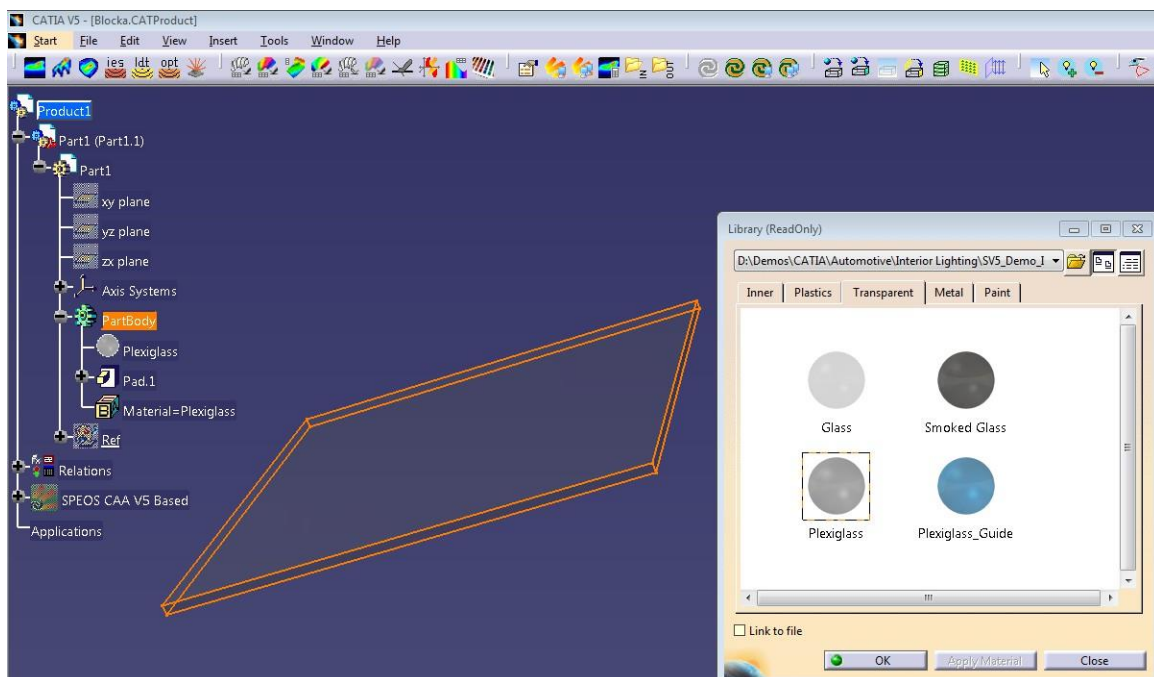
4. Unzip the downloaded folder
5. Find the files in the “diffuser” directory (see screenshot below) along the following path:  
[ANSYS\\_OPTICAL\\_LIBRARIES\\_2024R1.01\\_WINX64\Optical\\_Property\surface\\_optical\\_properties\diffuser](#)



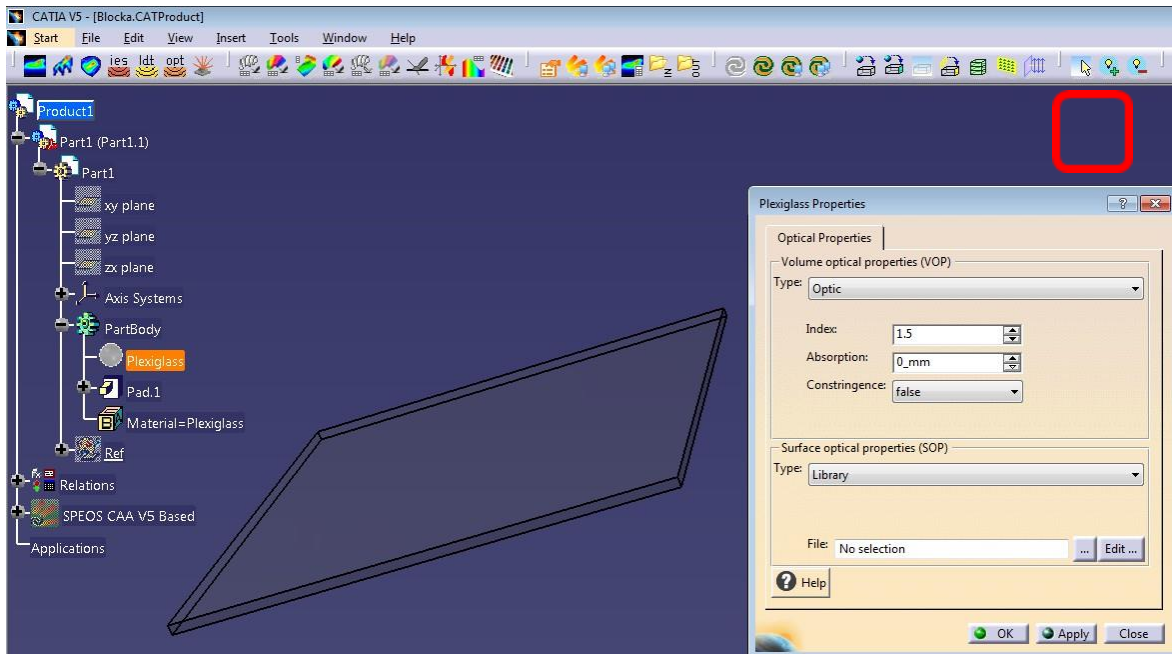
## How to Import Optis BSGF Data into CAD Environments

The SPEOS/Optis BSGF data is compatible with 4 different CAD packages: CATIA, Solid Works, NX and ProE. Below you will find the instructions using the files in CATIA; the methods for other packages will be similar.

1. The user applies a CATIA material to the respective part using the “Apply Material” feature



- Click on the material applied, in this case, Plexiglass, and click “Edit SPEOS Properties.” Then, change the Surface optical properties type to Library.



- Browse for the file and open it. The material is now applied to the surface of the part.

