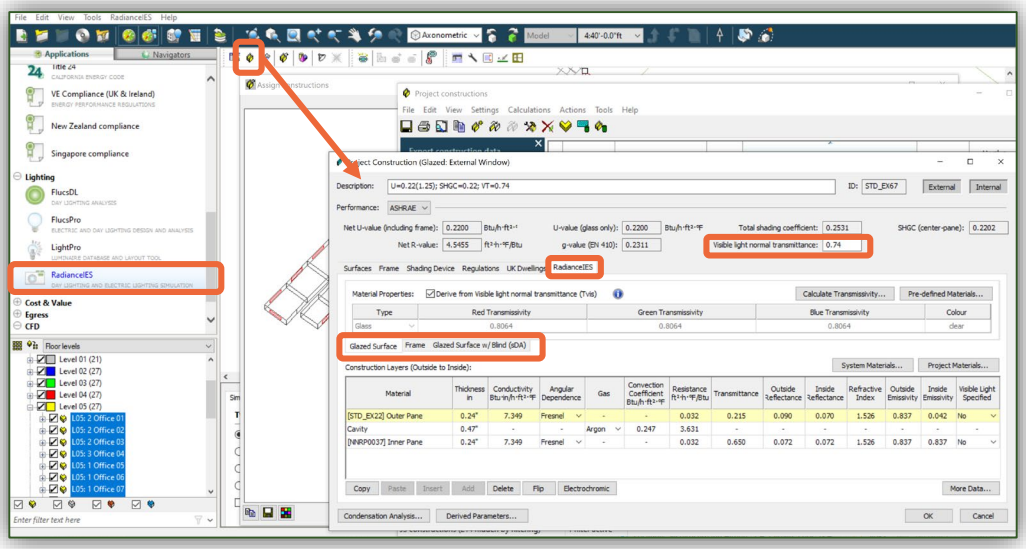
FAQ - Daylight for LEED

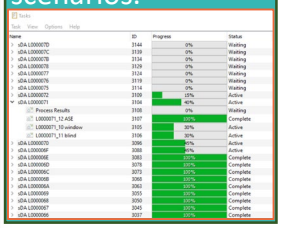
Spatial Daylight Autonomy (sDA) with RadianceIES

STEP 01:

To perform a Spatial Daylight Autonomy (sDA) calculation using RadianceIES, update the surface properties including reflectance values and visible light transmittance (VLT) for all relevant room surfaces.



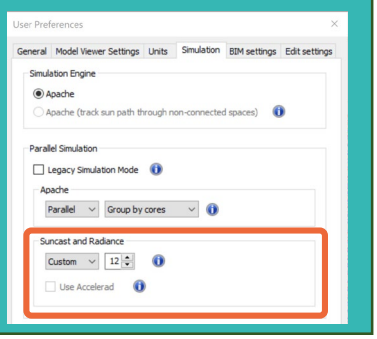
Note:
There is a VLT value available for the glass only and for the (glass+blind). The sDA calculation simulates both scenarios.

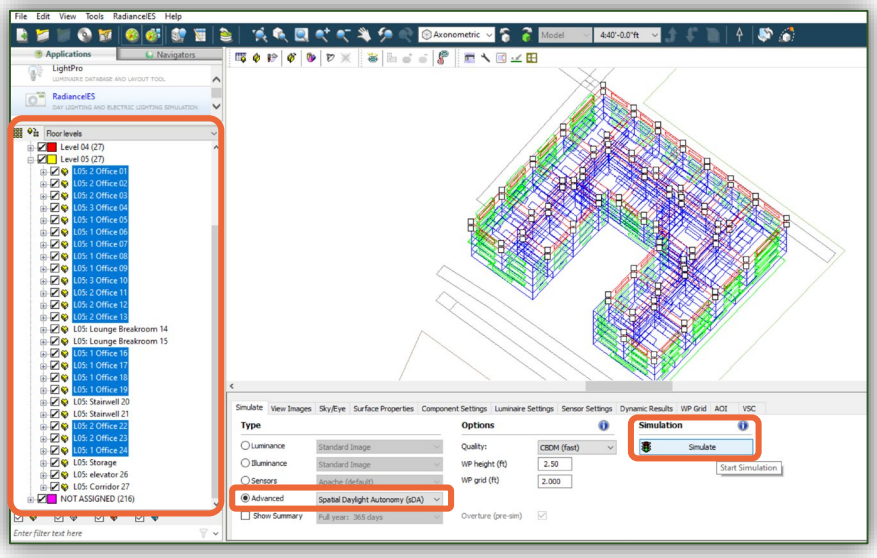


STEP 02:

Select 'Spatial Daylight Autonomy (sDA)' from the 'Advanced' Type and click 'Simulate'.

Note:
Faster simulations are possible by engaging the Parallel Simulation from the 'Tools' menu, 'Preferences'.

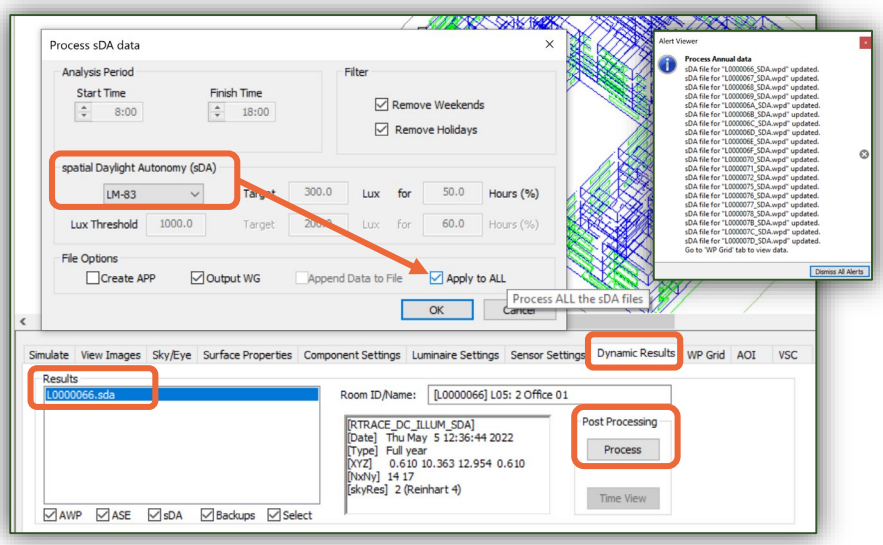




FAQ - Daylight for LEED

Spatial Daylight Autonomy (sDA) with RadianceIES

STEP 03:
In the 'Dynamic Results' tab, 'Process' the sDA results as per the LEED requirement: IES LM 83. Then 'Apply to All'. Continue on to the 'WP Grid' tab.

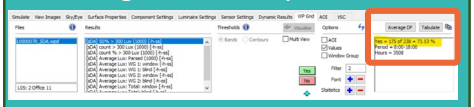


Note:
LEED v4.1 IEQ-DAYLIGHT (Option 1) defines 40% as the minimum sDA to be awarded 1 point, 55% for 2 points and 75% for 3 points.

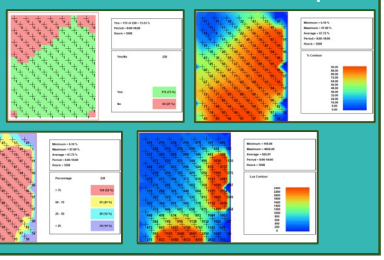
Reference:
https://www.iesve.com/discoveries/article/7726/ten-key-daylight-and-electric-metrics

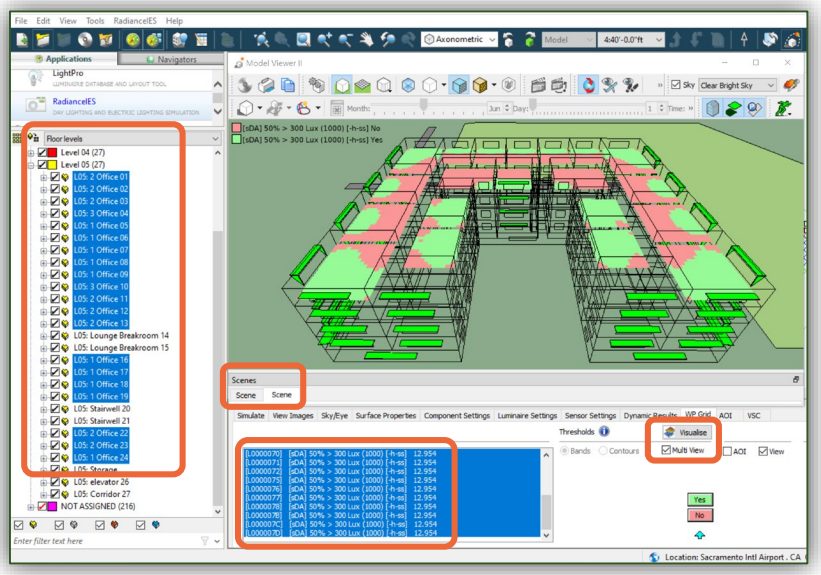
STEP 04:
Select all relevant rooms, all sDA results, 'Multi View' and 'Visualise'.

Note:
To view results data, selected one room. E.g. 73.5% = 2 points.



Move down a level of composition to see the same data with unique views.





Additional 'Scenes' can be added for multiple visualizations.