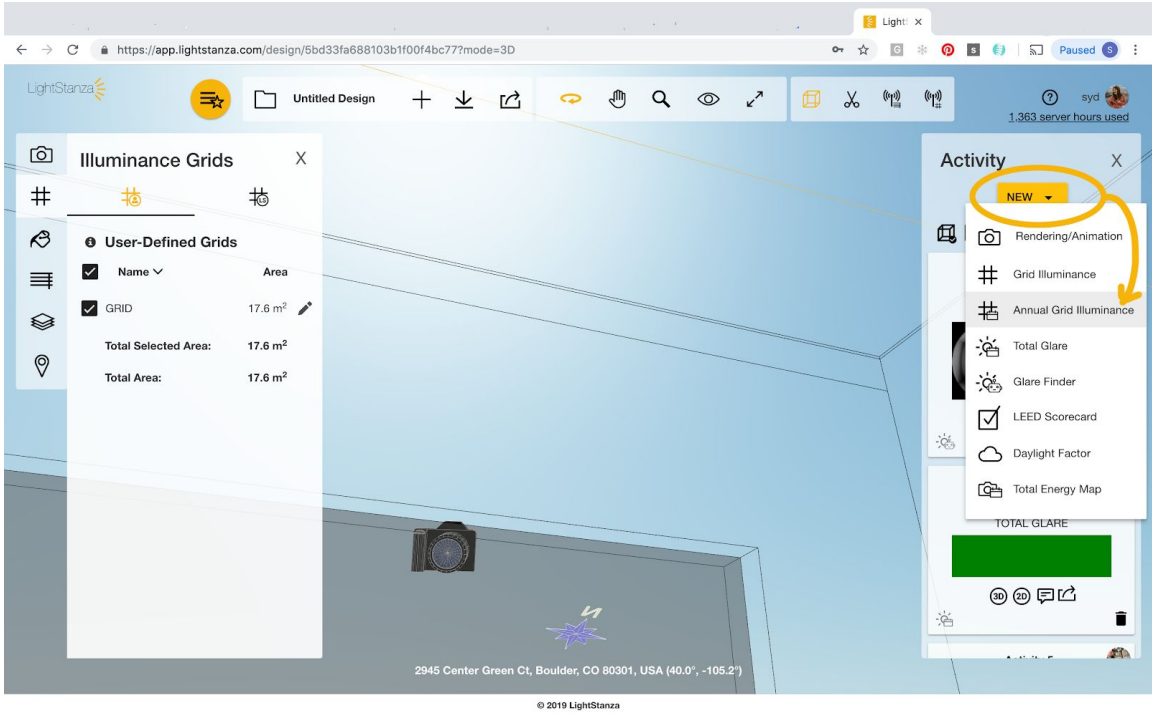
European Standard (prEN17037) in LightStanza

Reference guides:

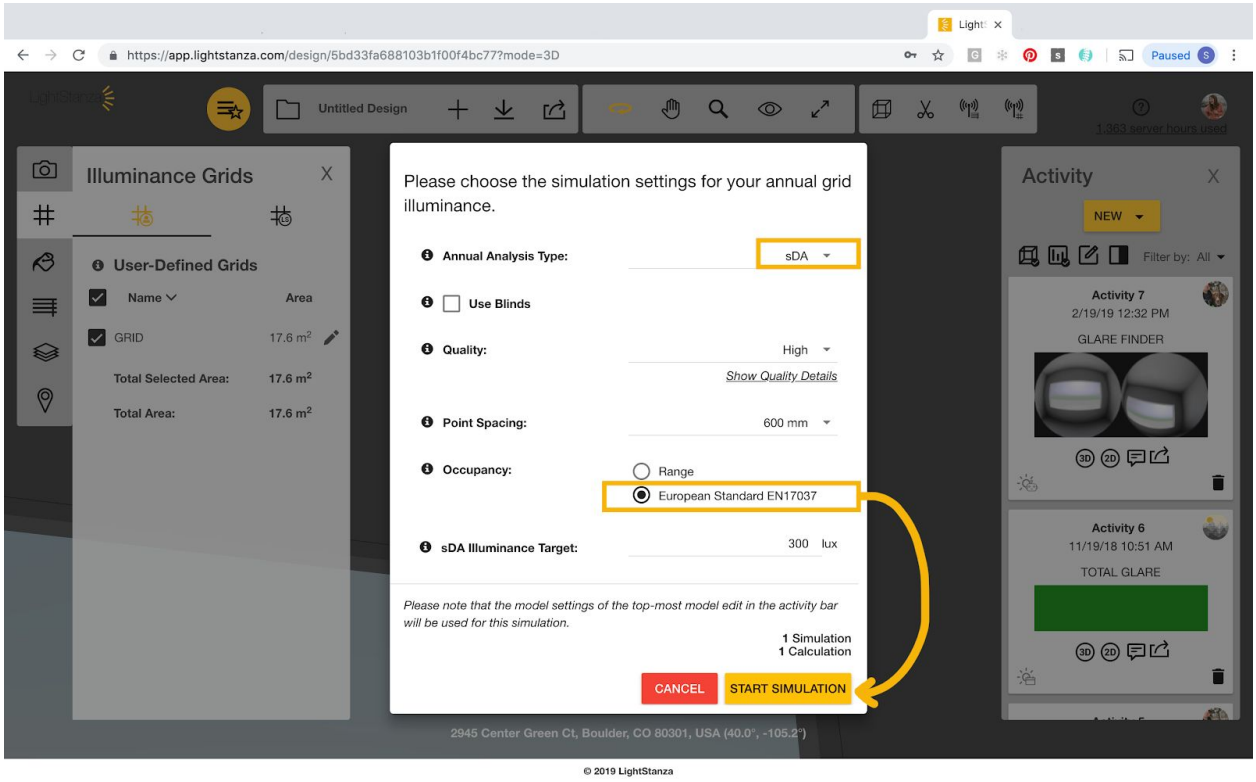
https://www.cibse.org/getmedia/a3b596d6-4bb5-4ab3-b3a3-44ee27752b09/CIBSEWebinar_prEN-17037-Daylight-Standard_Jens-Christoffersen.pdf.aspx

How to simulate for European Standard in LightStanza:

1. Upload model and go to **Activity bar**. Click **New** and **Annual Grid Illuminance**



2. Choose sDA and other customizable options in **Illuminance Grid screen**. Under **Occupancy**, click **'European Standard'** and '**Start Simulation'** to run analysis.



WELL Standard in LightStanza

https://standard.wellcertified.com/light/daylight-modeling

https://v2.wellcertified.com/v2.1/en/light/feature/1

1

Daylight in regularly occupied spaces:

Projects meet at least one of the following requirements:

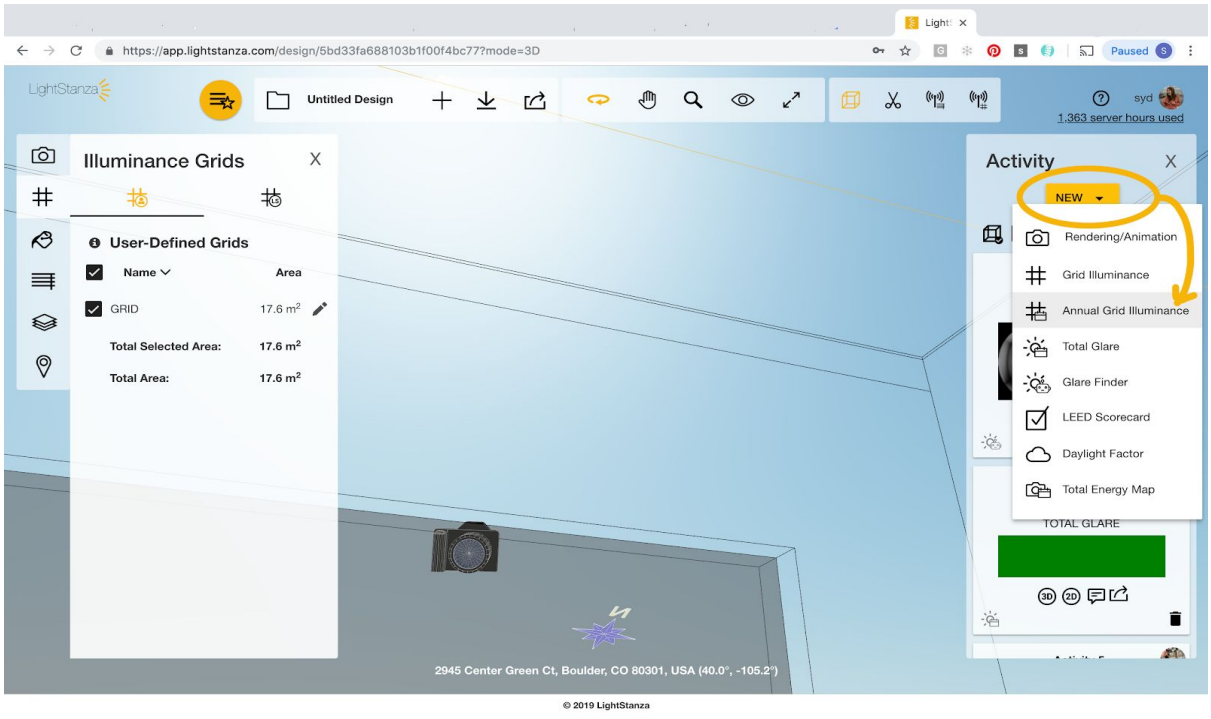
a. Spatial Daylight Autonomy of $sDA_{200,40\%}$ is achieved for at least 30% of regularly occupied space.

b. 30% of all workstations are within 6 m [20 ft] of transparent envelope glazing. Visible light transmittance (VLT) of transparent glazing is greater than 40%.

c. Transparent envelope glazing area is no less than 7% of the floor area for each floor level[28]. VLT of envelope glazing is greater than 40%.

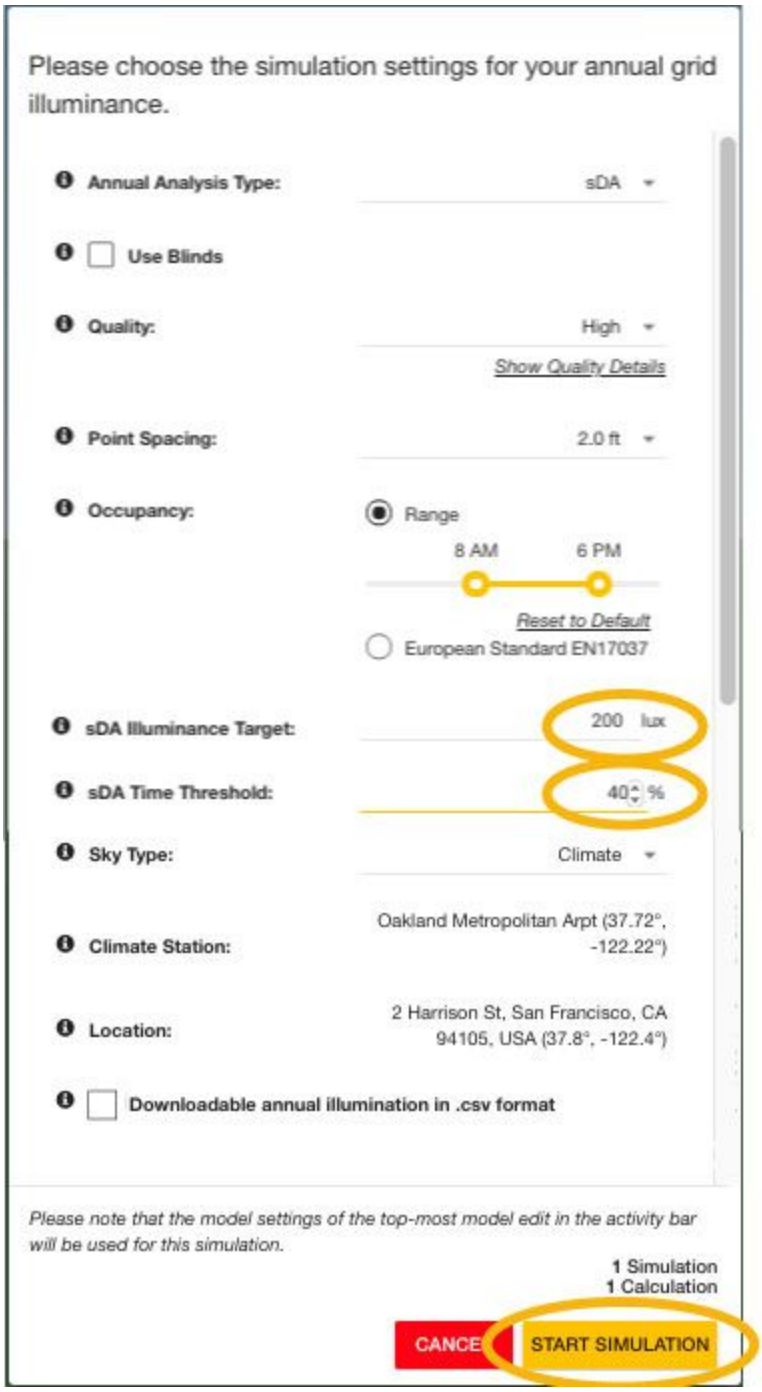
How to simulate for WELL Standard in LightStanza:

1. Upload model and go to **Activity bar**. Click **New** and **Annual Grid Illuminance**



2. Select simulation settings in your annual grid illuminance pane and click **‘Start Simulation’**

sDA calculation:



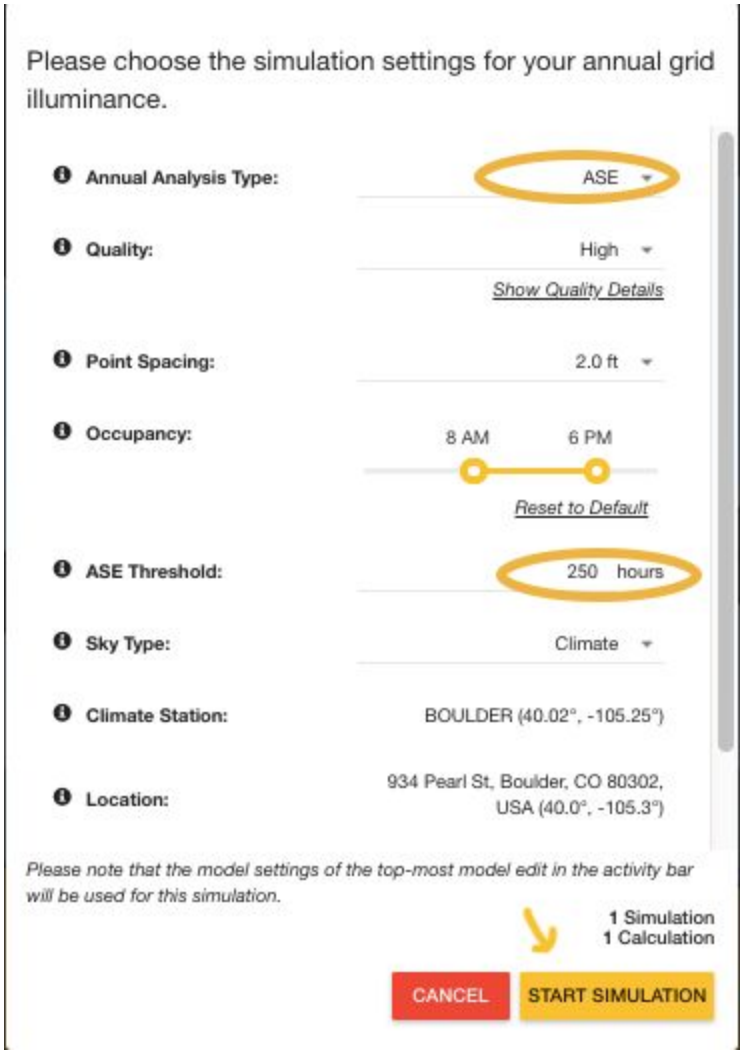
2

Glare calculation:

The following requirement is met:

a. Annual sunlight exposure of $ASE_{1000,250}$ is achieved for no more than 10% of regularly occupied space.

ASE calculation:



https://v2.wellcertified.com/v2.1/en/light/feature/4
https://v2.wellcertified.com/v2.1/en/light/feature/5

PART 1

Healthy Sunlight Exposure

Lighting simulations demonstrate that the following conditions are expected:

a.[1] Spatial daylight autonomy (sDA300,50%) is achieved for at least 55% of regularly occupied space. In other words, at least 55% of the space receives at least 300 lux [28 fc] of sunlight for at least 50% of operating hours each year.

b.[1] Annual sunlight exposure (ASE1000,250) is achieved for no more than 10% of regularly occupied space. In other words, no more than 10% of the area can receive more than 1,000 lux [93 fc] for 250 hours each year.

For All Spaces except Dwelling Units

The following requirement is met:

a. Projects demonstrate through computer simulations that $sDA_{300,50\%}$ is achieved for the area on each floor as shown in the table below:

$sDA_{300,50\%}$	Points
Achieved for > 55% of regularly occupied floor area	1
Achieved for > 75% of regularly occupied floor area	2

a. Simulate similar to sDA calculation from screenshot above by changing illuminance target and time threshold.
b. Simulate same as ASE calculation from screenshot above.