

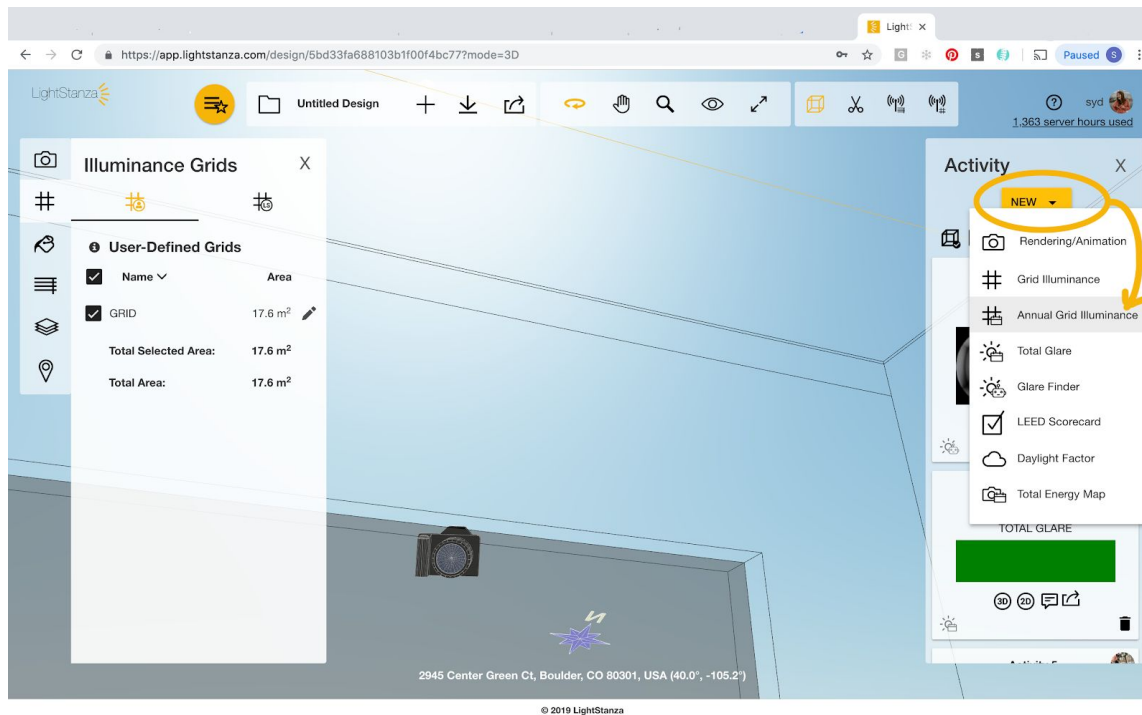
# European Standard (prEN17037) in LightStanza

Reference guides:

[https://www.cibse.org/getmedia/a3b596d6-4bb5-4ab3-b3a3-44ee27752b09/CIBSEWebinar\\_prEN-17037-Daylight-Standard\\_Jens-Christoffersen.pdf.aspx](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.

The screenshot displays the LightStanza web application interface. The central focus is a dialog box titled "Please choose the simulation settings for your annual grid illuminance." The dialog contains the following settings:

- Annual Analysis Type:** sDA
- Use Blinds:**
- Quality:** High
- Point Spacing:** 600 mm
- Occupancy:**  European Standard EN17037
- sDA Illuminance Target:** 300 lux

At the bottom of the dialog, there are two buttons: "CANCEL" and "START SIMULATION". A yellow arrow points from the "START SIMULATION" button to the "European Standard EN17037" radio button. Below the dialog, a note states: "Please note that the model settings of the top-most model edit in the activity bar will be used for this simulation." The activity bar on the right shows two activities: "Activity 7" (2/19/19 12:32 PM) and "Activity 6" (11/19/18 10:51 AM). The "Activity 7" bar is selected and shows "GLARE FINDER" with two circular glare analysis results. The "Activity 6" bar shows "TOTAL GLARE" with a green bar chart. The bottom of the screen displays the address "2945 Center Green Ct, Boulder, CO 80301, USA (40.0°, -105.2°)" and the copyright notice "© 2019 LightStanza".

# WELL Standard in LightStanza

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

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

1

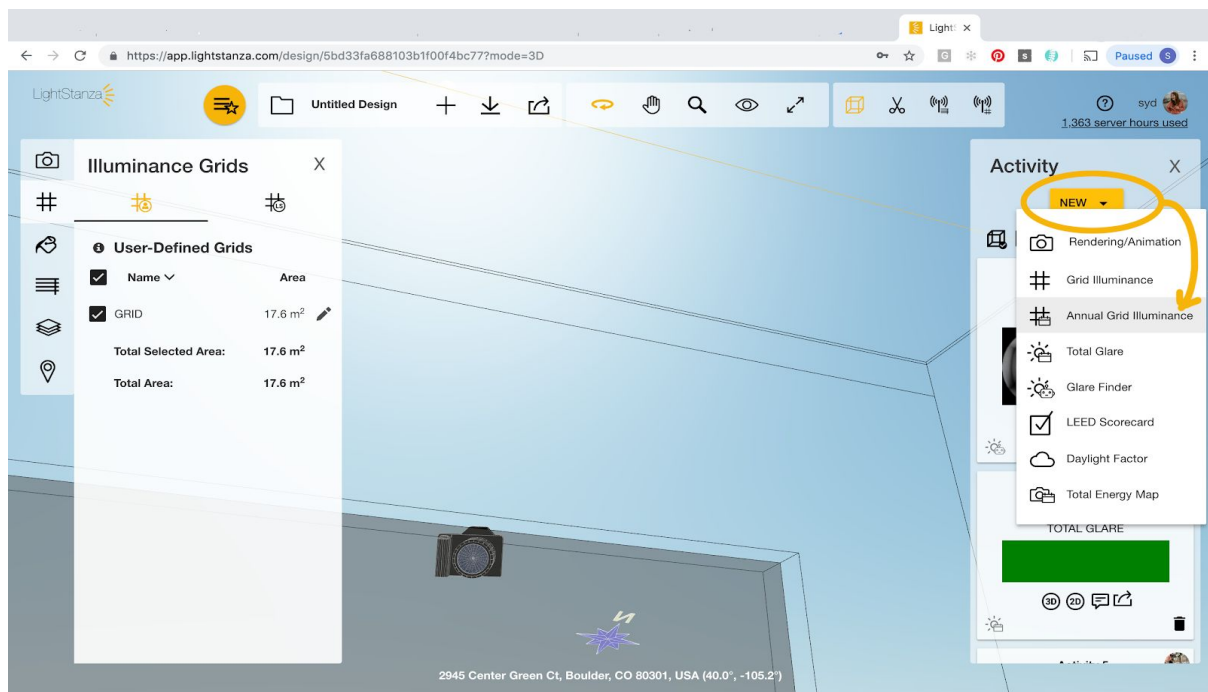
## Daylight in regularly occupied spaces:

Projects meet at least one of the following requirements:

- Spatial Daylight Autonomy of  $sDA_{200,40\%}$  is achieved for at least 30% of regularly occupied space.
- 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%.
- Transparent envelope glazing area is no less than 7% of the floor area for each floor level<sup>[28]</sup>. VLT of envelope glazing is greater than 40%.

## How to simulate for WELL Standard in LightStanza:

- 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:**

Please choose the simulation settings for your annual grid illuminance.

1 Annual Analysis Type: sDA ▾

2  Use Blinds

3 Quality: High ▾  
[Show Quality Details](#)

4 Point Spacing: 2.0 ft ▾

5 Occupancy:  Range  
8 AM 6 PM  
[Reset to Default](#)  
 European Standard EN17037

6 sDA Illuminance Target: 200 lux

7 sDA Time Threshold: 40% %

8 Sky Type: Climate ▾

9 Climate Station: Oakland Metropolitan Arpt (37.72°, -122.22°)

10 Location: 2 Harrison St, San Francisco, CA 94105, USA (37.8°, -122.4°)

11  Downloadable annual illumination in .csv format

Please note that the model settings of the top-most model edit in the activity bar will be used for this simulation.

1 Simulation  
1 Calculation

CANCEL START SIMULATION

## 2

### Glare calculation:

The following requirement is met:

- a. Annual sunlight exposure of ASE<sub>1000,250</sub> is achieved for no more than 10% of regularly occupied space.

### ASE calculation:

Please choose the simulation settings for your annual grid illuminance.

1 Annual Analysis Type:	ASE
1 Quality:	High
	<a href="#">Show Quality Details</a>
1 Point Spacing:	2.0 ft
1 Occupancy:	8 AM 6 PM
	<a href="#">Reset to Default</a>
1 ASE Threshold:	250 hours
1 Sky Type:	Climate
1 Climate Station:	BOULDER (40.02°, -105.25°)
1 Location:	934 Pearl St, Boulder, CO 80302, USA (40.0°, -105.3°)

Please note that the model settings of the top-most model edit in the activity bar will be used for this simulation.

1 Simulation  
1 Calculation

CANCEL START SIMULATION

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

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

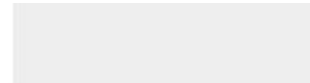
PART 1

## Healthy Sunlight Exposure

Lighting simulations demonstrate that the following conditions are expected:

- a.<sup>1</sup> Spatial daylight autonomy (sDA<sub>300,50%</sub>) 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.<sup>1</sup> Annual sunlight exposure (ASE<sub>1000,250</sub>) 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<sub>300,50%</sub> is achieved for the area on each floor as shown in the table below:

sDA <sub>300,50%</sub>	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.