DIVA fff

Warnings

No warnings.

Simulation Tips

Daysim generates a schedule file, that can be linked to a thermal simulation program. To open file click the link below

C:\DIVA \temp\Rhino30WWR-KL\Rhino30WWR-KL_intgain.csv

Daysim Simulation Report

Daylit Area ($DA_{300lux}[50\%]$)	84% of floor area
Mean Daylight Factor	3.7%
Occupancy	3393 hours per year

Daylight Factor (DF) Analysis: 48% of all illuminance sensors have a daylight factor of 2% or higher. Assuming that the sensors are evenly distributed across 'all spaces occupied for critical visual tasks', the investigated lighting zone does **not** qualify for LEED-NC 2.1 daylighting credit 8.1.

Daylight Autonomy (DA) Analysis: The mean daylight autonomy is 67% for active occupant behavior. The percentage of the space with a daylight autonomy larger than 50% is 84% for active occupant behavior.

Continuous Daylight Autonomy (DA) Analysis: The mean continuous daylight autonomy is 76% for active occupant behavior. The percentage of sensors with a DA_MAX > 5% is 48% for active occupant behavior

Useful Daylight Illuminance (UDI): The percentage of the space with a $UDI_{<100\text{-}2000lux}$ larger than 50% is 79% for active occupant behavior.

Electric Lighting Use: The predicted annual electric lighting energy use is:

- Lighting Group 1 (occ_dimming): 1026.7 kWh
- Lighting Group 2 (occ_dimming): 876.7 kWh

Simulation Assumptions

Site Description:

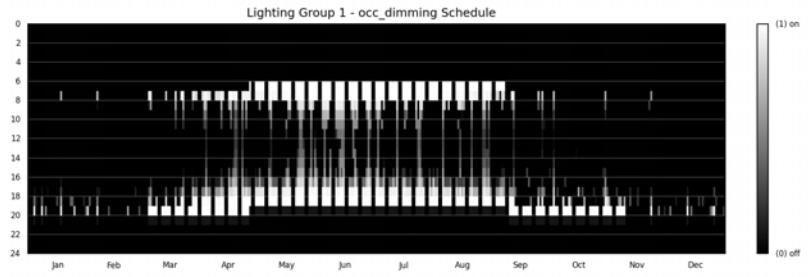
The investigated building is located in SANTIAGO_CHL (33.38 S/ 70.78 E).

User Description:

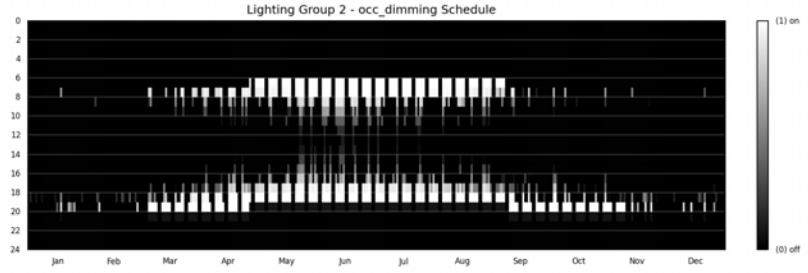
The total annual hours of occupancy at the work place are 3393.

Lighting Control:

- Lighting Group 1 (occ_dimming): The system has an installed electric lighting power of 1245.0W. It is manually controlled with an on/off switch combined with a switch off occupancy sensor with a delay time of 5 minutes. The occupancy sensor only switches the lighting off (not on!). The dimming system has an ideally commissioned photocell controll with a ballast loss factor of 0.00 percent. The lighting system has a total standby power of 0.00W.



- Lighting Group 2 (occ_dimming): The system has an installed electric lighting power of 1245.0W. It is manually controlled with an on/off switch combined with a switch off occupancy sensor with a delay time of 5 minutes. The occupancy sensor only switches the lighting off (not on!). The dimming system has an ideally commissioned photocell controll with a ballast loss factor of 0.00 percent. The lighting system has a total standby power of 0.00W.



ShadingControl:

There is no dynamic shading system in the scene.

Daysim header File: C:\DIVA\temp\Rhino30WWR-KL\Rhino30WWR-KL.hea