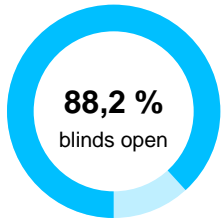
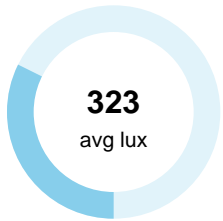
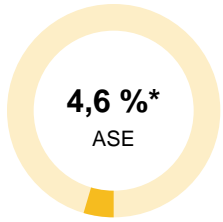
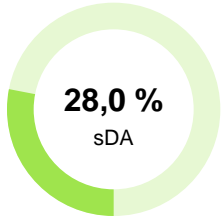
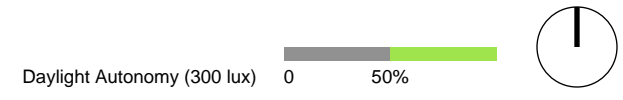
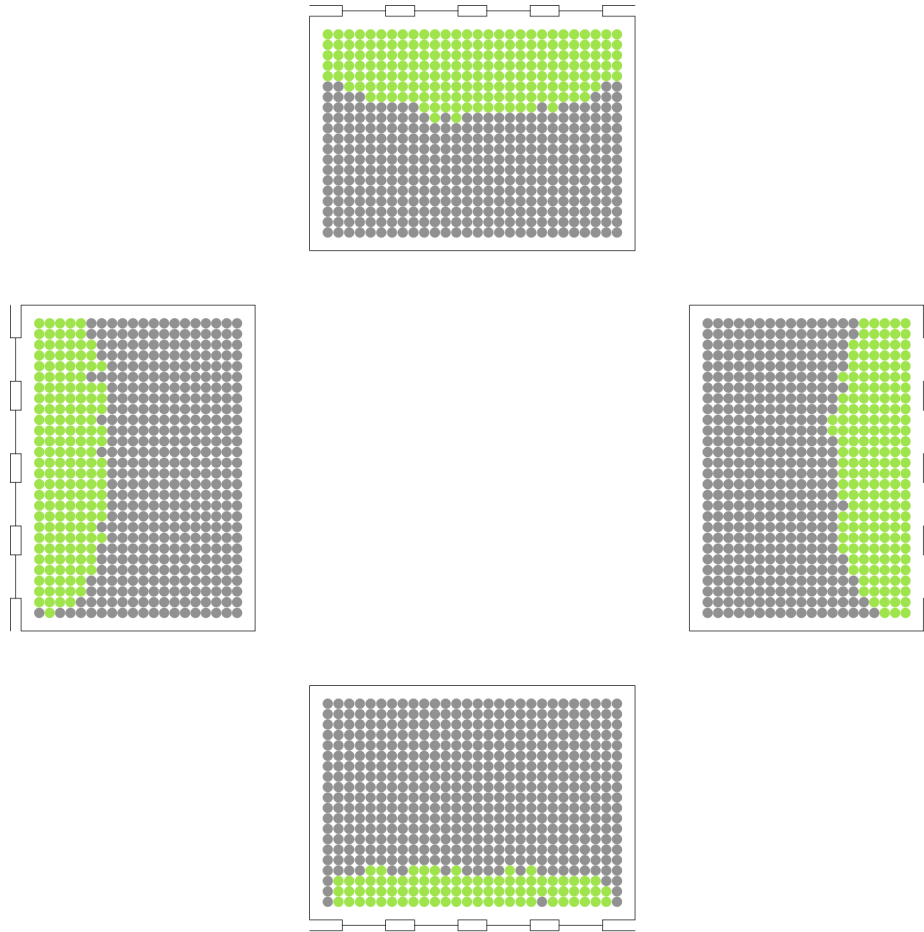




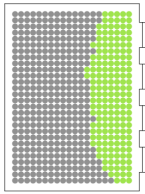
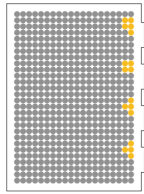
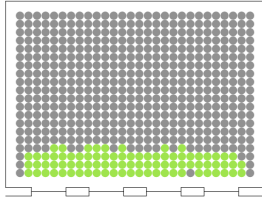
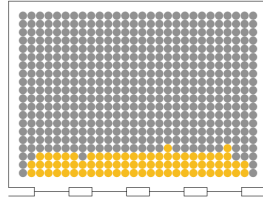
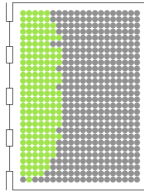
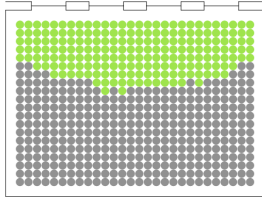
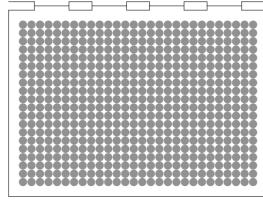


LEED v4.1 Oslo med solskjerming



* ASE > 10% in one or more spaces. The design addresses glare in these areas as follows:
Oslo med solskjerming.



Space ID & Description	Area	Spacing	Shading	0 50%		sDA	0 250 hrs		ASE
									
Oslo East	626 ft ²	1,0 ft	Y			31,43 %			3,04 %
Oslo South	626 ft ²	1,0 ft	Y			15,00 %			13,57 %
Oslo West	626 ft ²	1,0 ft	Y			30,18 %			1,61 %
Oslo North	626 ft ²	1,0 ft	Y			35,54 %			0,00 %
Totals	2504 ft ²					28,04 %			4,55 %

Software:	ClimateStudio v1.9.8389.21977
Engine:	Radiance 5.3
Weather:	NOR_OS_Oslo-Fornebu.AP.014881_TMYx.2004-2018.epw
North Offset:	0°
Ambient Bounces:	7
Passes Completed:	100
Primary Ambient Samples:	6500

Layer Materials

Layer	Objects	Material	Rvis	Tvis
External wall	4	● Grey Exterior Facade Panels	46,2 %	0,0 %
External wall::Windowsill	64	● Grey Aluminium Window Frame	43,3 %	0,0 %
Internal wall	16	● Wall LM83	50,0 %	0,0 %
Internal wall::Windowsill	64	● Wall LM83	50,0 %	0,0 %
Ceiling	4	● Ceiling LM83	70,0 %	0,0 %
Floor	4	● Dark Grey Floor Tiles	20,1 %	0,0 %
Ground	1	● Bark 3	20,6 %	0,0 %

Window Groups

ID	Space ID	Area	Material	Tvis	Shade Material	Operation	Blinds Open
0	Oslo	72 ft²	● Starphire - Sungate 400 (3) on St	71,3 %	sheerWeave 2390 Performance + V22 Charcoal Gr	Default (LEEDv4 2% Rule)	90,11 %
1	Oslo	72 ft²	● Starphire - Sungate 400 (3) on St	71,3 %	sheerWeave 2390 Performance + V22 Charcoal Gr	Default (LEEDv4 2% Rule)	100,00 %
2	Oslo	72 ft²	● Starphire - Sungate 400 (3) on St	71,3 %	sheerWeave 2390 Performance + V22 Charcoal Gr	Default (LEEDv4 2% Rule)	90,44 %
3	Oslo	72 ft²	● Starphire - Sungate 400 (3) on St	71,3 %	sheerWeave 2390 Performance + V22 Charcoal Gr	Default (LEEDv4 2% Rule)	72,33 %

Appendix

Occupancy

Space ID	Occupancy Schedule
Oslo	8am-6pm with DST
Oslo	8am-6pm with DST
Oslo	8am-6pm with DST
Oslo	8am-6pm with DST

Glossary

- sDA:** Spatial Daylight Autonomy: Percent of space receiving at least 300 lux for at least 50% of occupied hours. Calculation includes dynamic shading if modeled.
- ASE:** Annual Sunlight Exposure: Percent of space receiving at least 1000 lux direct sun for at least 250 occupied hours. Calculation excludes dynamic shading.
- Avg Lux:** Mean workplane illuminance during occupied hours. Calculation includes dynamic shading if modeled.
- Blinds open:** Percent of occupied hours blinds are open (or dynamic glass is in clearest state). Building total is window-area weighted.
- Shading:** (Y/N) Does the space have dynamic blinds or dynamic glazing? If yes, shading operation affects sDA but not ASE. The value must be yes for all perimeter spaces -- otherwise an explanation must be supplied via written addendum.