

1 Daylighting evaluation of office room 314

1.1 Location

Location is in city Brno, Řečkovice.

1.2 Area

Floor area.....32.500 m²

Glass area5.600 m²

1.3 Surface

Tab.1 Surfaces description

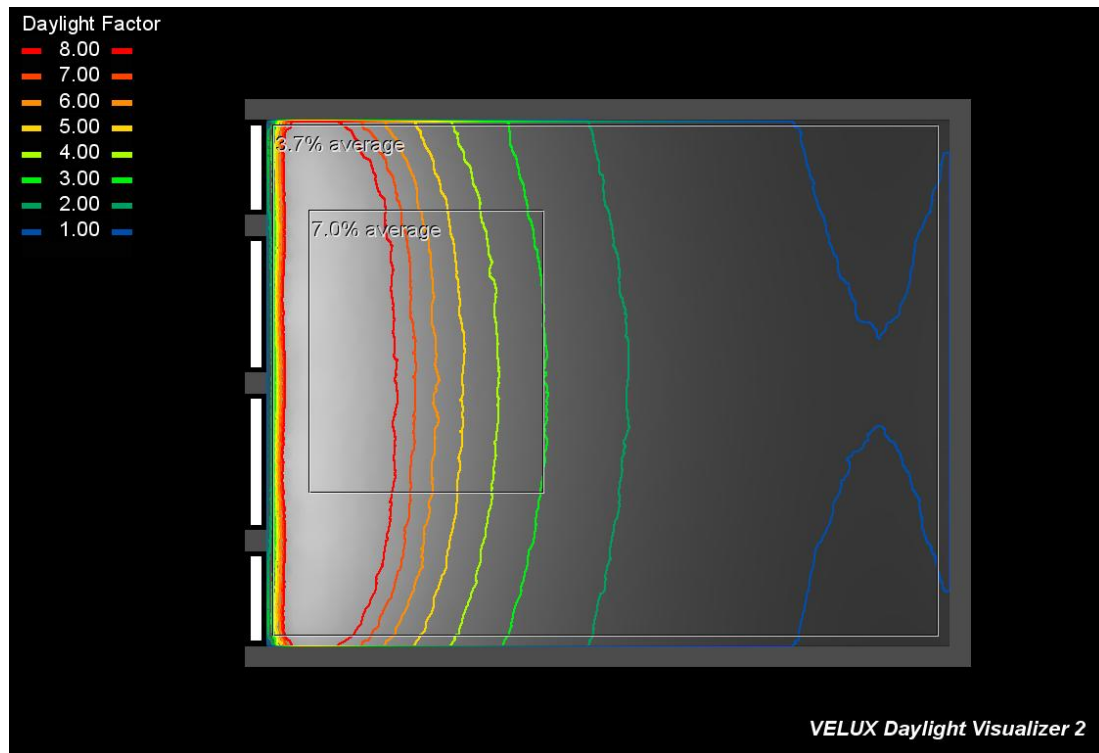
Surface	(R, G, B)	Roughness	Specularity	Reflectance
Floor	(0.350, 0.350, 0.350)	0.050	0.000	0.350
Ceiling	(0.840, 0.840, 0.840)	0.030	0.000	0.840
Wall	(0.840, 0.840, 0.840)	0.030	0.000	0.840
Roof window frame	(0.920, 0.920, 0.920)	0.010	0.100	0.920
Roof window lining	(0.840, 0.840, 0.840)	0.030	0.000	0.840
Roof window pane	(0.780, 0.780, 0.780)		Transmittance:	0.780
Facade window frame	(0.920, 0.920, 0.920)	0.010	0.100	0.920
Facade window lining	(0.840, 0.840, 0.840)	0.030	0.000	0.840
Facade window pane	(0.780, 0.780, 0.780)		Transmittance:	0.780
Facade door frame	(0.920, 0.920, 0.920)	0.010	0.100	0.920
Facade door lining	(0.840, 0.840, 0.840)	0.030	0.000	0.840
Facade door pane	(0.780, 0.780, 0.780)		Transmittance:	0.780

Source: Own work in program VELUX Daylight Visualizer

1.4 Produkts:

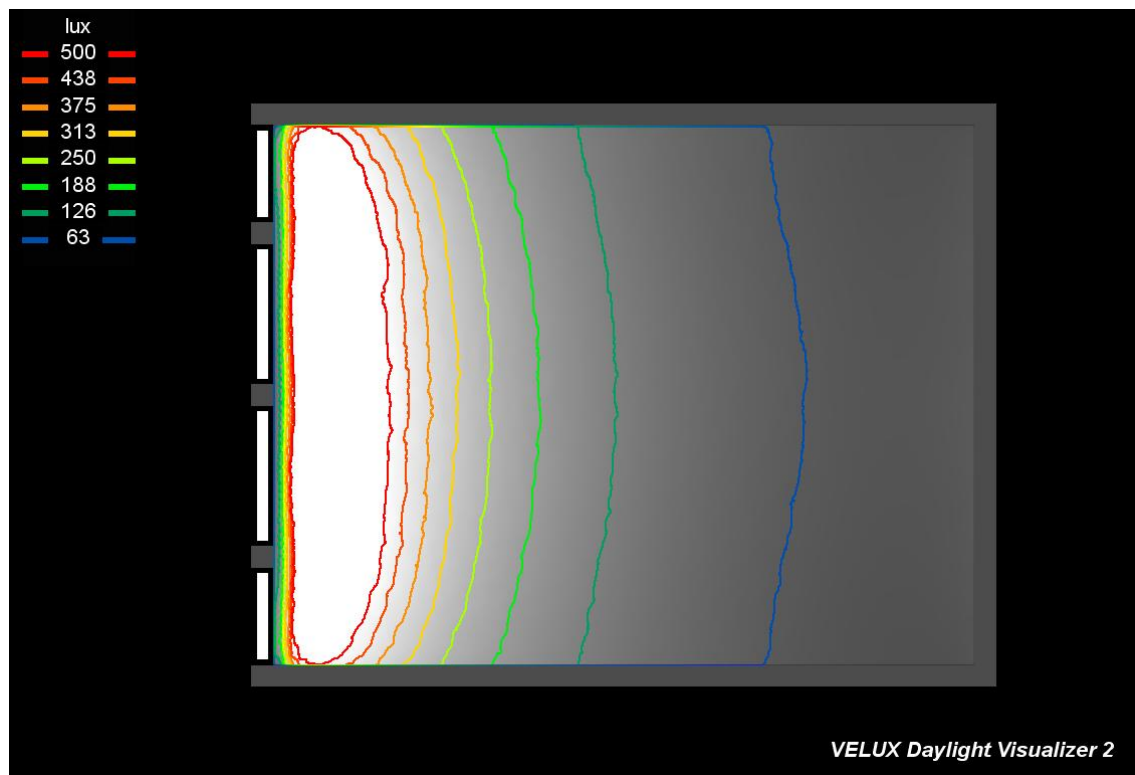
2 x Facade window (900mm x 1500mm)

2 x Facade window (1300mm x 1500mm)



Picture 1 : Daylight factor evaluation (percent)

Source: Own calculation in program VELUX Daylight Visualizer

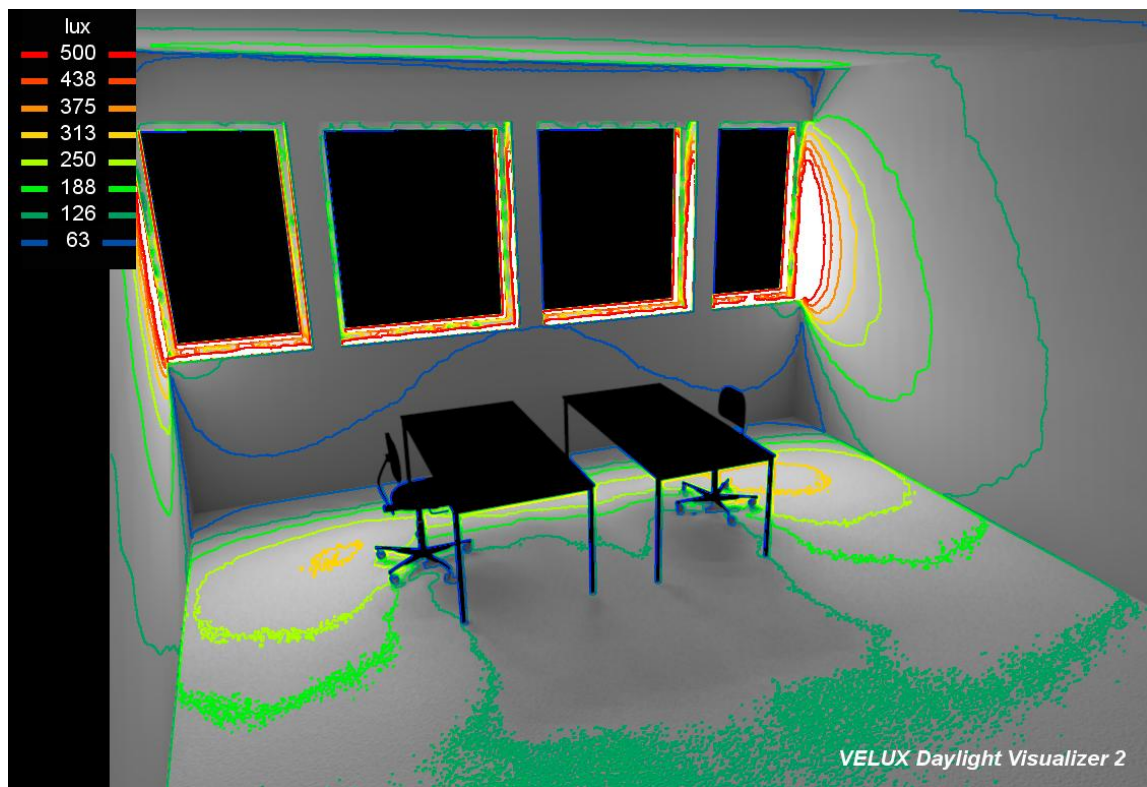


Picture 2 :Illuminance evaluation (lux)

Source: Own calculation in programe VELUX Daylight Visualizer



Picture 3 : Illuminance evaluation sectional view (lux)
Source: Own work in program VELUX Daylight Visualizer



Picture 4 : Illuminance evaluation prospective view (lux)

Source: Own work in program VELUX Daylight Visualizer