

1 Daylighting evaluation of open space

1.1 Location

Location is in city Brno, Řečkovice.

1.2 Area

Floor area.....180.000 m²

Glass area10.047 m²

1.3 Surface

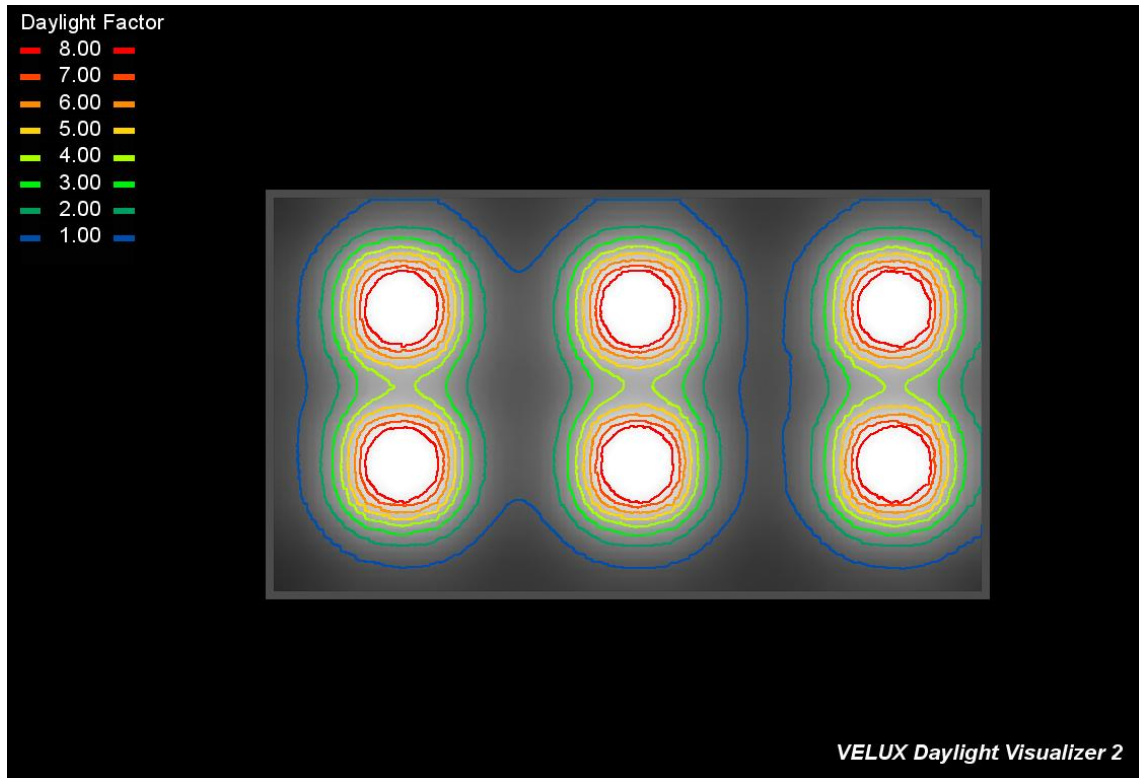
Tab.1 Surfaces description

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

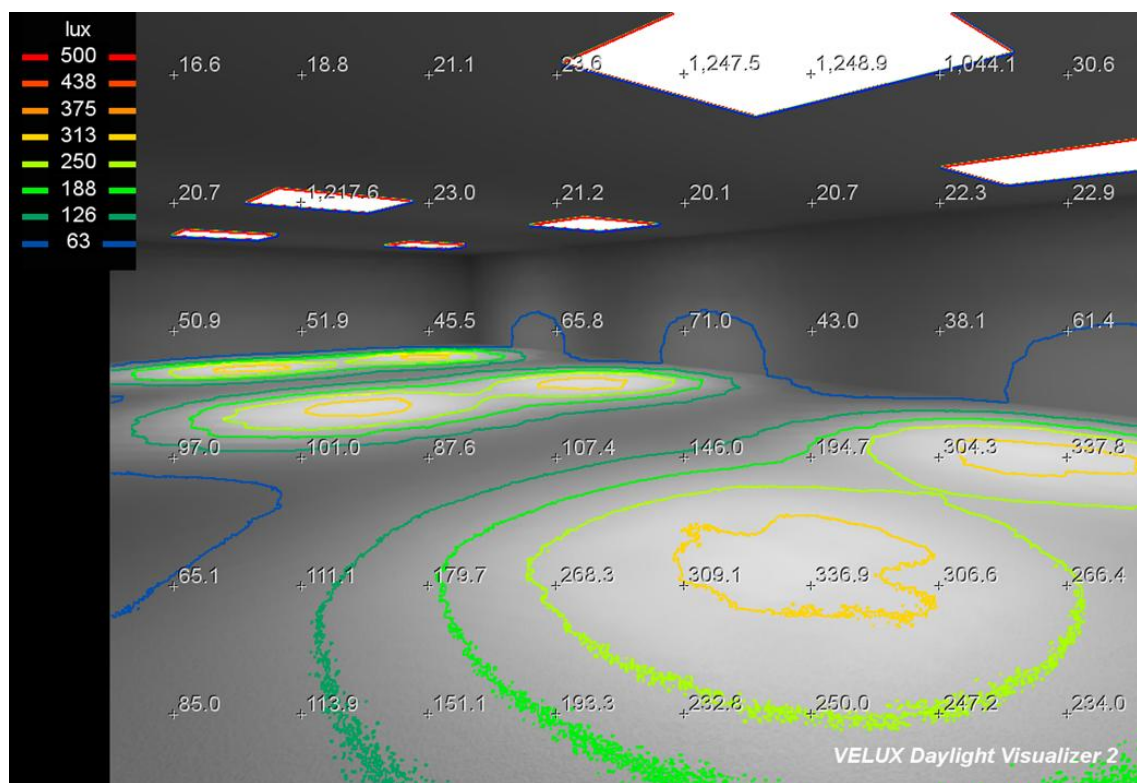
1.4 Products:

6 x Standard roof window (1459mm x 1459mm)



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