



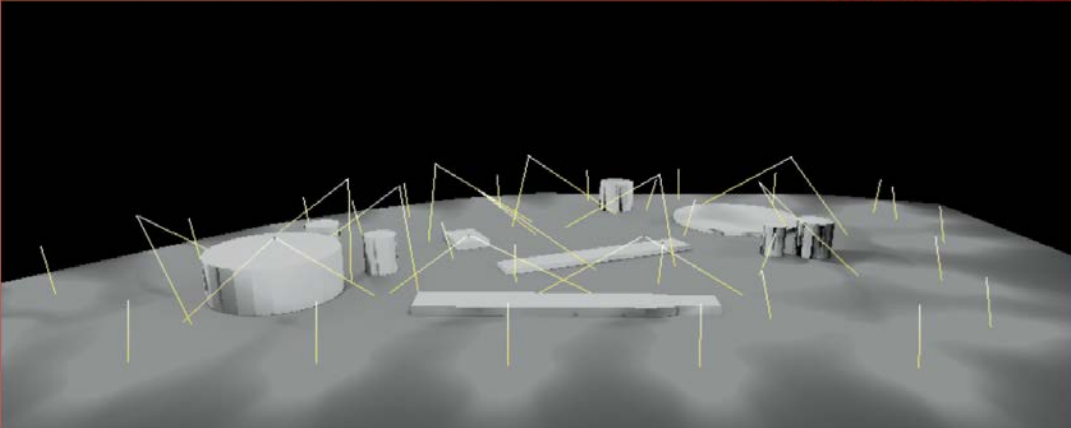
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Lighting System



Installation: hazardous areas - Zone 1 / 2 (Gases)
Zone 21 / 22 (Dusts) - Safe Area

LIGHTING CALCULATION



Lighting layout software for internal and external areas available by our office lighting calculation service for lighting installation to right and best position of luminaires in your project.

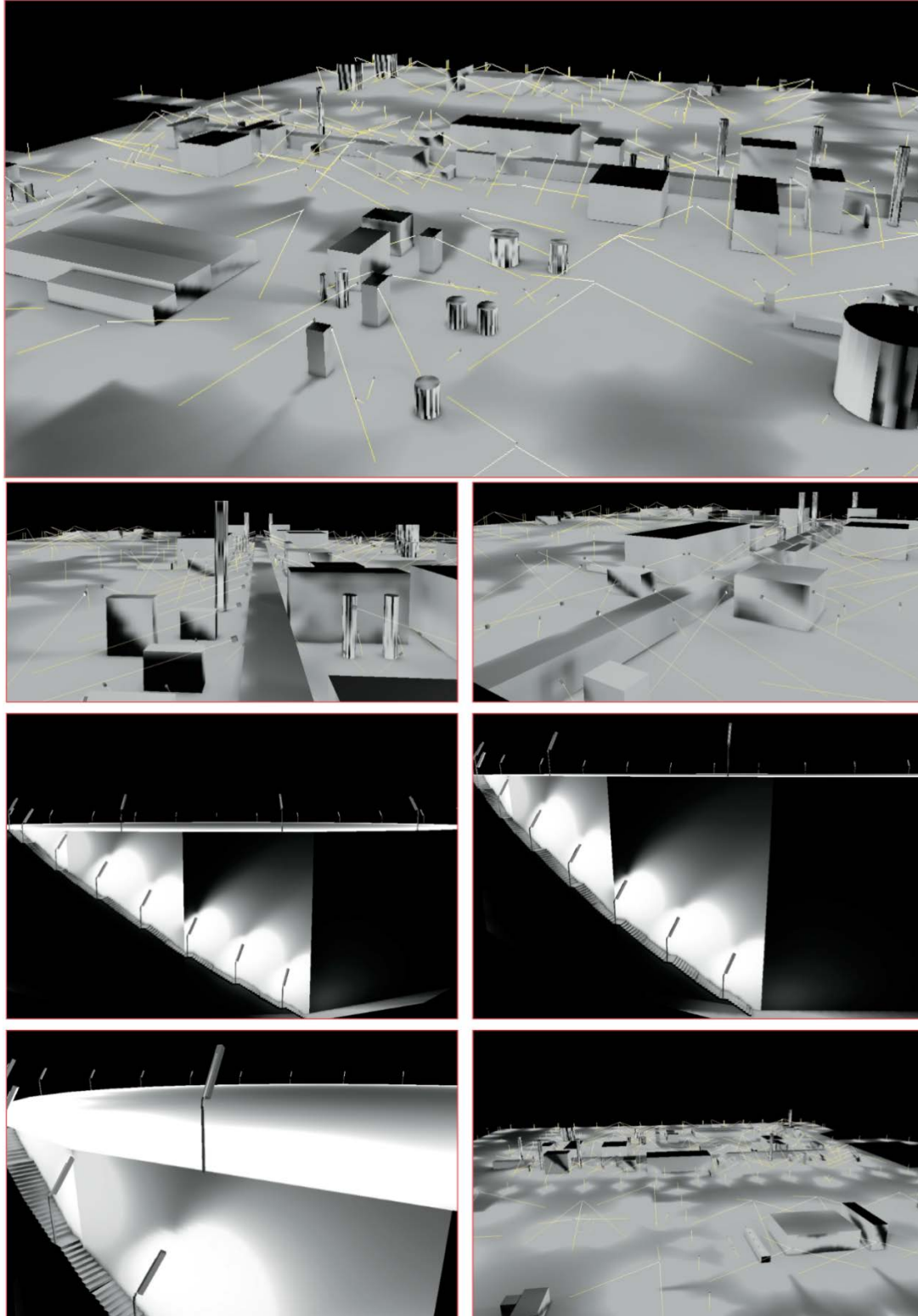
Our technical staff offers its services in planning lighting installation, with photometric graphs and lighting data outputs in full according to Customer requirements.

A well-organized software system is available to calculate the luminance level and the lighting distribution.

This system will help you to plan the right and best position of luminaries in your project. It is enough you to inform us about the required illumination level: we will present you the lighting project quickly.

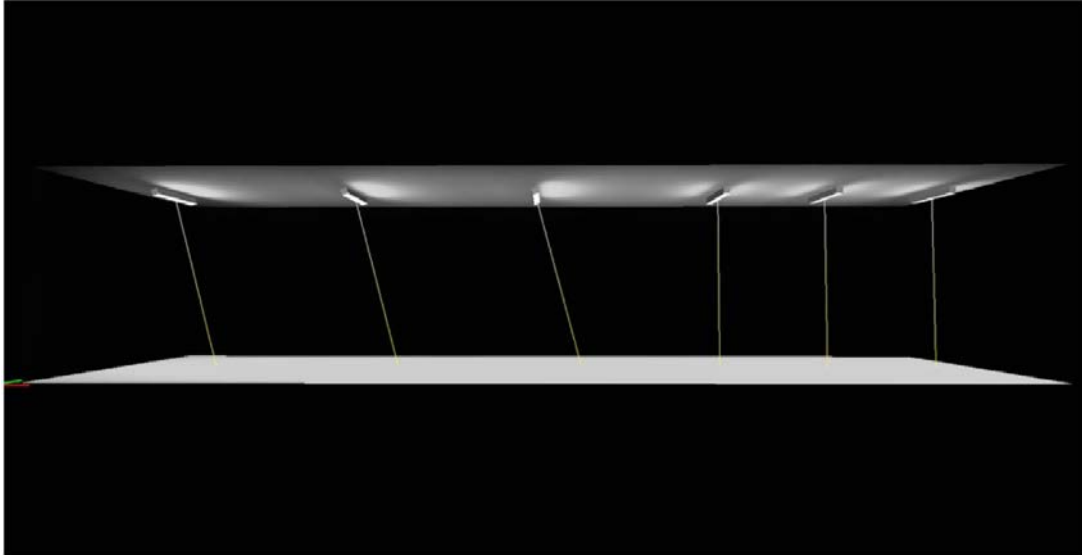
Using a proper software, our technical staff is able to insert lighting fixtures into a project and produce a virtual image of the area, which shows the real illuminating effect.

Lighting calculation of example



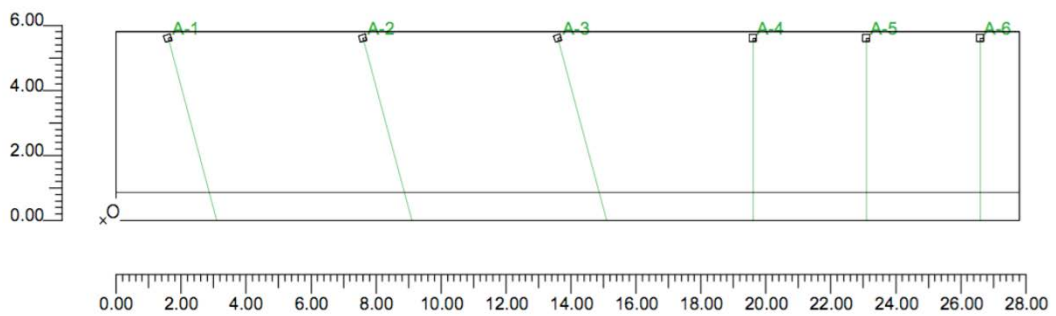


Front View



2.3 Front View

Scale 1/200

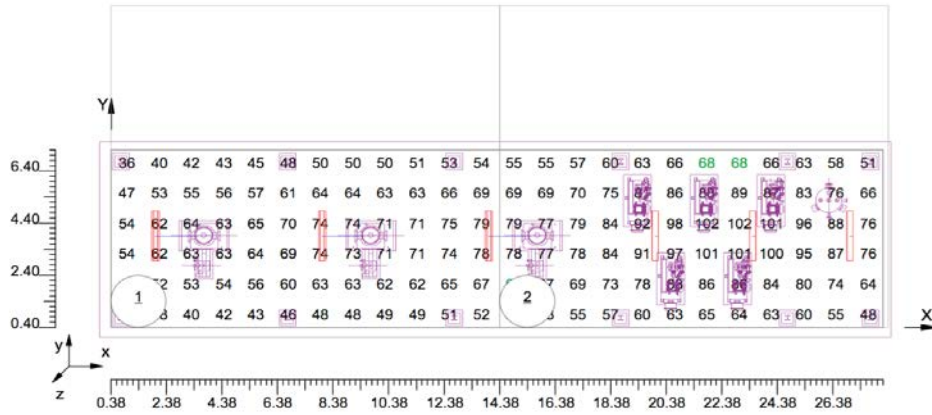


Front View

4.2 Illuminance Values on: Working Plane

Scale 1/200

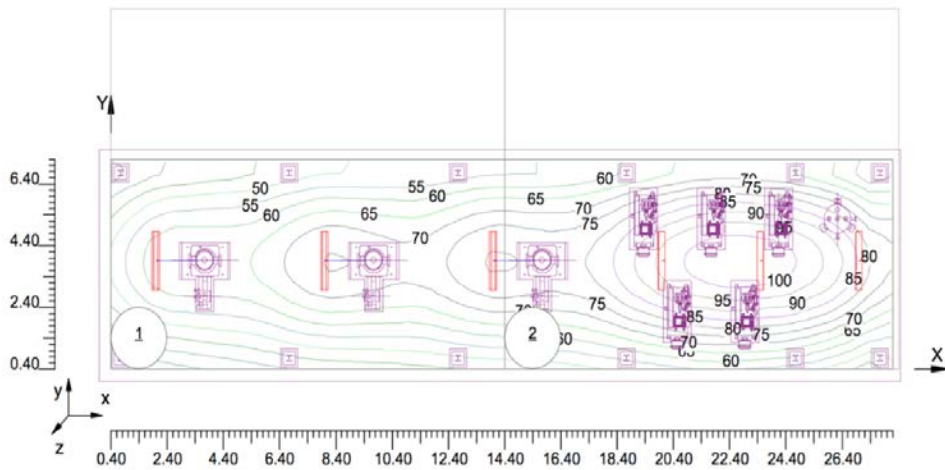
Parts Total: 2



4.3 Isolux Curves on: Working Plane_1

Scale 1/200

Parts Total: 2

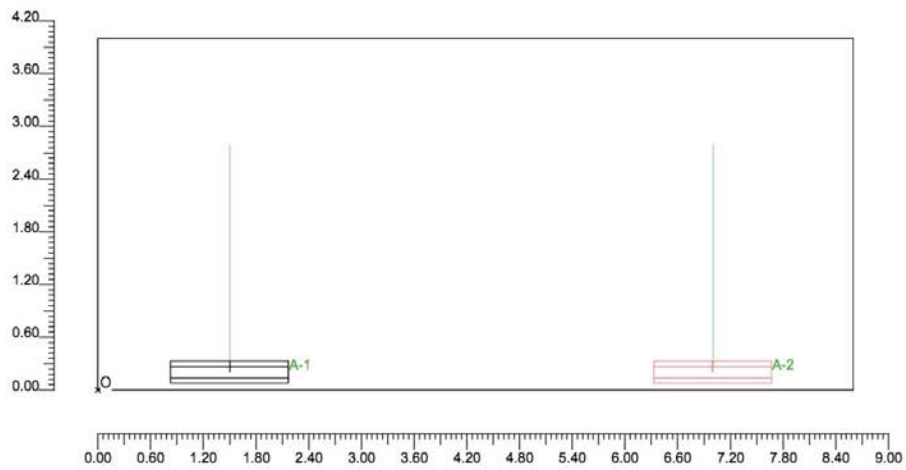




2D View

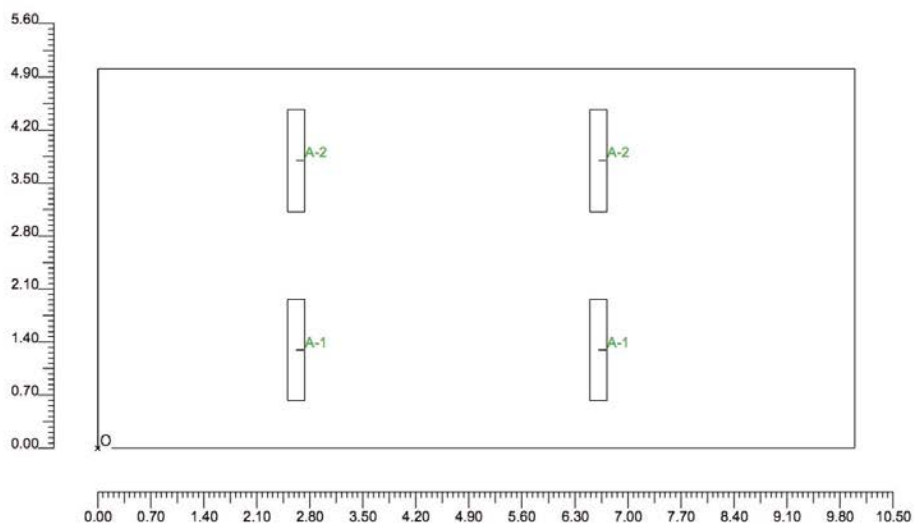
2.1 Vista 2D in Pianta

Scala 1/60



2.1 Vista 2D in Pianta

Scala 1/70



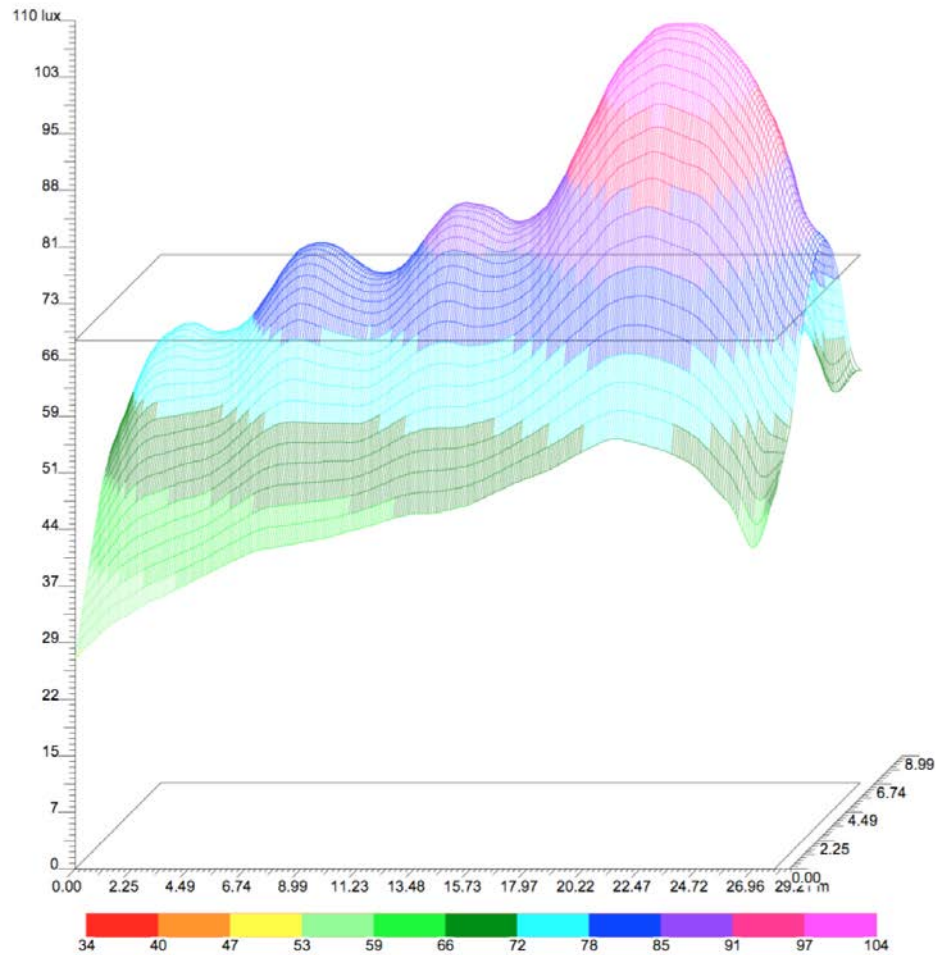


4.5 Illuminance Three-dimensional Values on : Working Plane_1_1_1

O (x:0.40 y:0.40 z:0.85)	Results	Average	Minimum	Maximum	Min/Ave	Min/Max	Ave/Max
DX:0.58 DY:0.58	Horizontal Illuminance (E)	68 lux	34 lux	104 lux	0.50 1:2.02	0.33 1:3.06	0.66 1:1.52

Calculation Type

Dir.+Indir.(7 Inter-Reflections)





Numerical Result

1.1 General Notes

Surface	Dimensions [m]	Angle°	Color	Coefficient Reflectance	Average Illum. [lux]	Ave.Luminance [cd/m ²]
Ceiling	8.31x12.91	Plane	RGB=200,200,200	65%	26	5.38
Wall 4	3.81x8.31	-90°	RGB=0,0,0	0%	96	0.00
Wall 3	3.81x12.91	-180°	RGB=0,0,0	0%	61	0.00
Wall 2	3.81x8.31	90°	RGB=0,0,0	0%	96	0.00
Wall 1	3.81x12.91	0°	RGB=0,0,0	0%	89	0.00
Floor	12.91x8.31	Plane	RGB=200,200,200	40%	117	14.91

Dimensions of Room Bounding Box [m]: 12.60x8.00x3.50
 Calculation Points Grid of Bounding Box [m]: direction X 0.31 - Y 0.31 - Z 0.31

1.2 Energy Calculation (Working Plane)

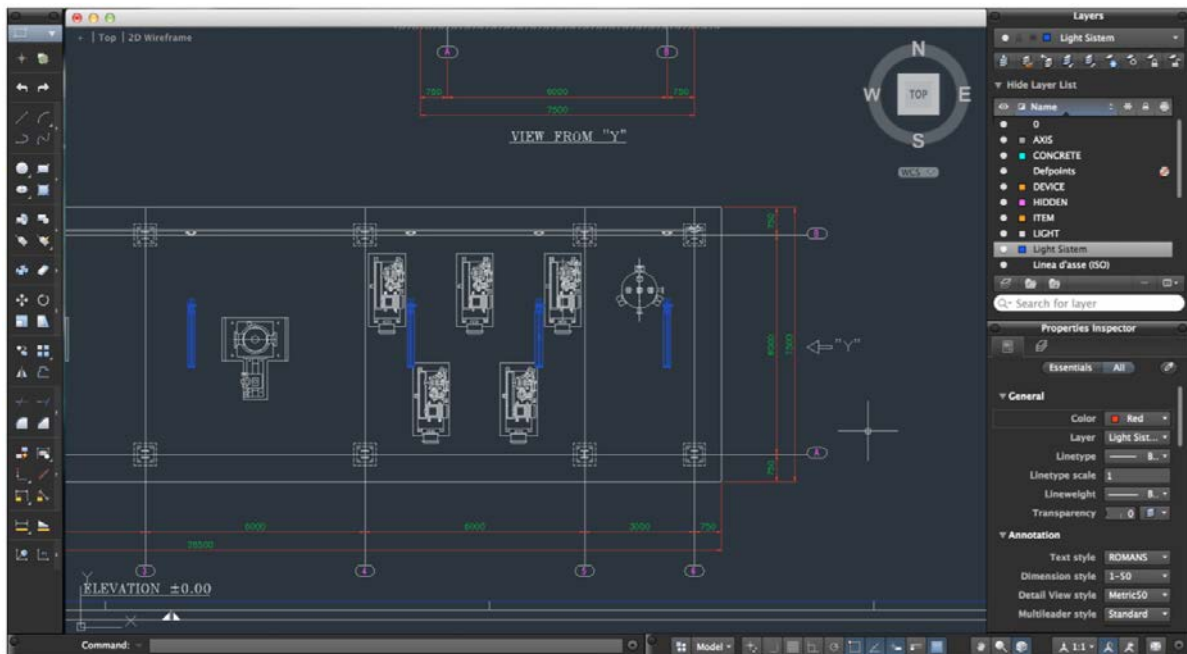
Area	100.80 m ²
Average Illuminance	138.76 lx
Specific Power	4.29 W/m ²
Lighting Engineering Specific Power	3.09 W/(m ² * 100lx)
Energy Efficiency	32.38 (m ² *lx)/W
Total Power Used	432.00 W

1.3 Uniformity Installation Parameters

Surface	Results	Average	Minimum	Maximum	Min/Ave	Min/Max	Ave/Max
Working Plane (h=0.85 m)	Horizontal Illuminance (E)	139 lux	63 lux	199 lux	0.46	0.32	0.70
					1:2.19	1:3.14	1:1.43
Floor	Horizontal Illuminance (E)	117 lux	59 lux	150 lux	0.50	0.39	0.78
					1:2.00	1:2.55	1:1.28

Calculation Type Dir.+Indir.(7 Inter-Reflections)

Tecniche layout with positions on plant





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