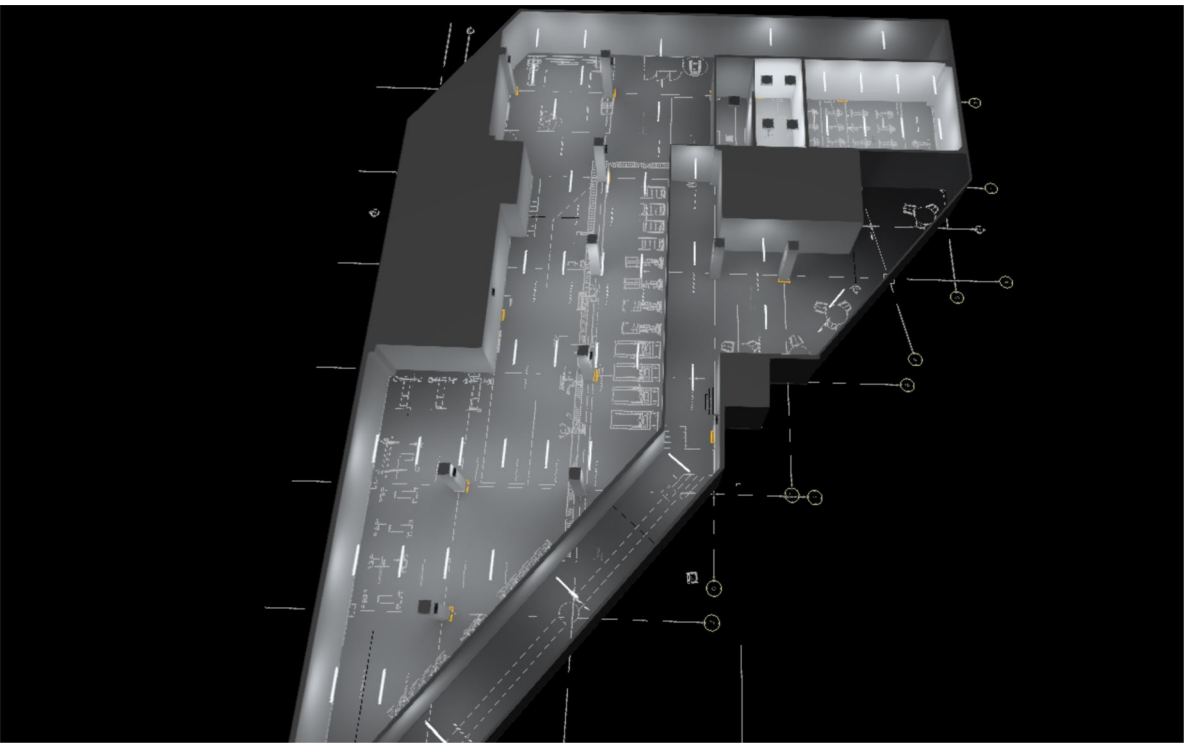


Unidad deportiva - Santafe de Antioquia

Informe de iluminacion del Piso 2, Gimnasio, Enfermeria , Circulacion y Cycling.

Created with DIALux

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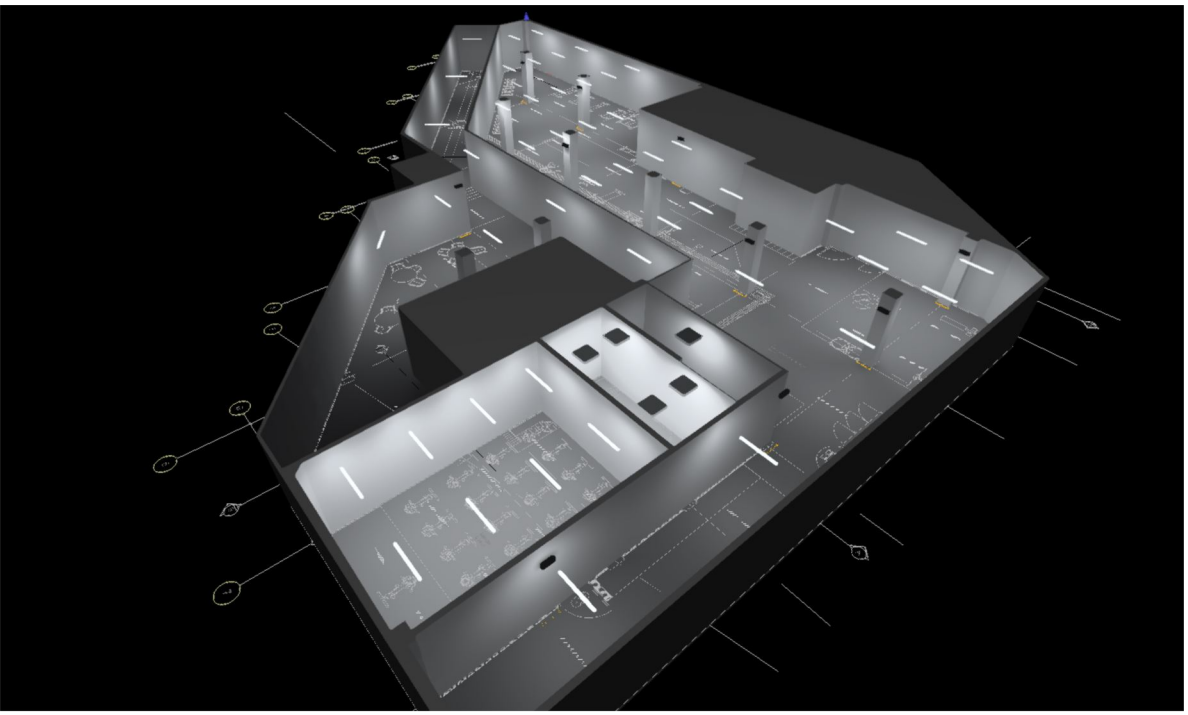
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Description

Presentar los valores de iluminacion correspondientes a las diferentes areas y validar que cumplan con los parametros establecidos en el RETILAP.

DIALux

Luminaire list

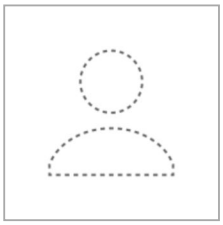
Φ_{total}	P_{total}	Luminous efficacy	$\Phi_{Emergency\ lighting}$
193593 lm	1998.8 W	96.9 lm/W	1694 lm

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
49	Not yet a DIALux member	HERMÉTICA LRL10036BL	HERMÉTICA LRL10036BL-36W		3437 lm	93.6 lm/W
5	Not yet a DIALux member	PNL 6060	PNL60640BL-PANEL-60X60-6000K-4800Lm-40W		5036 lm	125.5 lm/W
11	SYLVANIA		SYLVANIA P23342-LED EMERG R1 2X1.6W		154 lm (100 %)	-

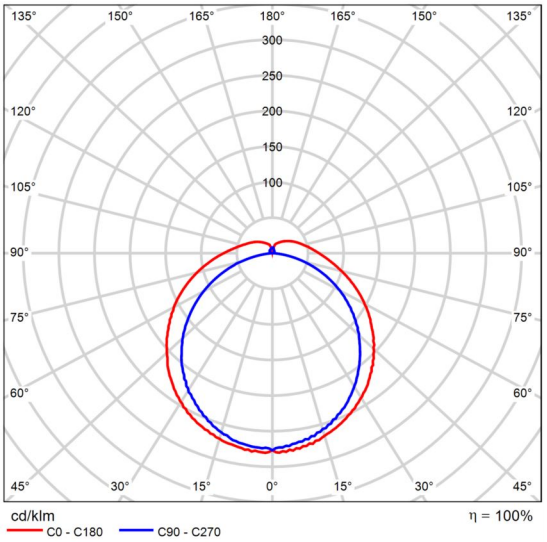
DIALux

Product data sheet

Not yet a DIALux member - HERMÉTICA LRL10036BL-36W



Article No.	HERMÉTICA LRL10036BL
P	36.7 W
Φ_{Lamp}	3438 lm
$\Phi_{Luminaire}$	3437 lm
η	99.98 %
Luminous efficacy	93.6 lm/W
CCT	3000 K
CRI	100

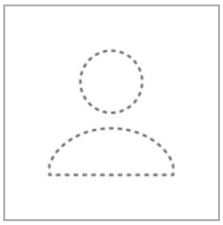


Polar LDC

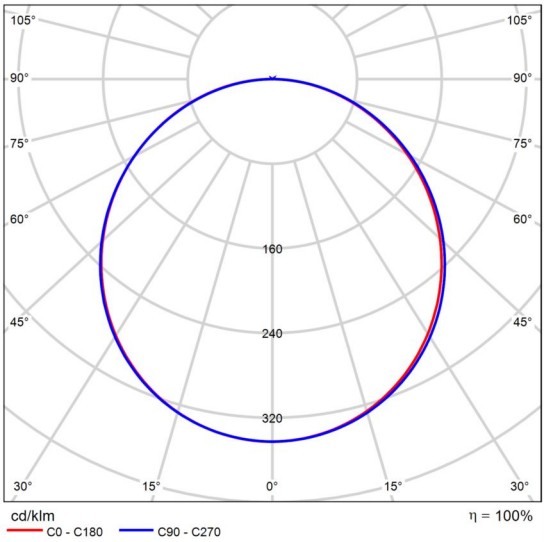
DIALux

Product data sheet

Not yet a DIALux member - PNL60640BL-PANEL-60X60-6000K-4800Lm-40W



Article No.	PNL 6060
P	40.1 W
Φ_{Lamp}	5037 lm
$\Phi_{Luminaire}$	5036 lm
η	100.00 %
Luminous efficacy	125.5 lm/W
CCT	3000 K
CRI	100

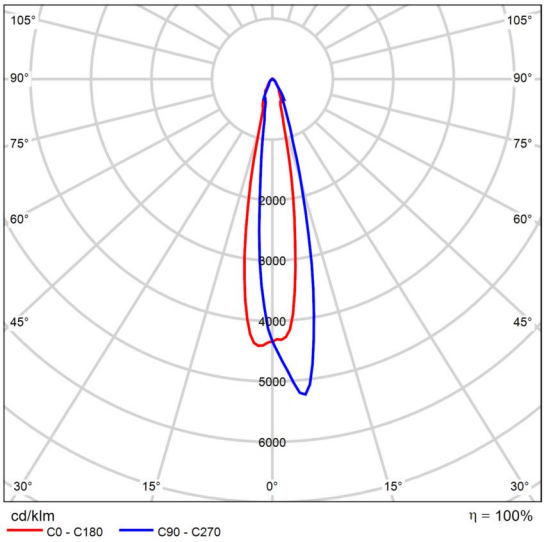


Polar LDC

Product data sheet

SYLVANIA - SYLVANIA P23342-LED EMERG R1 2X1.6W

$\Phi_{\text{Emergency lighting}}$	154 lm
Luminous efficacy	
CCT	3000 K
CRI	100
ELF	100 %



Polar LDC

γ	C0°	C90°	C0°- C360°
0°-180°	667.33	801.08	801.94
60°-90°	5.53	5.20	5.54

Glare valuation table [cd]

DIALux

Building 1 · Storey 1

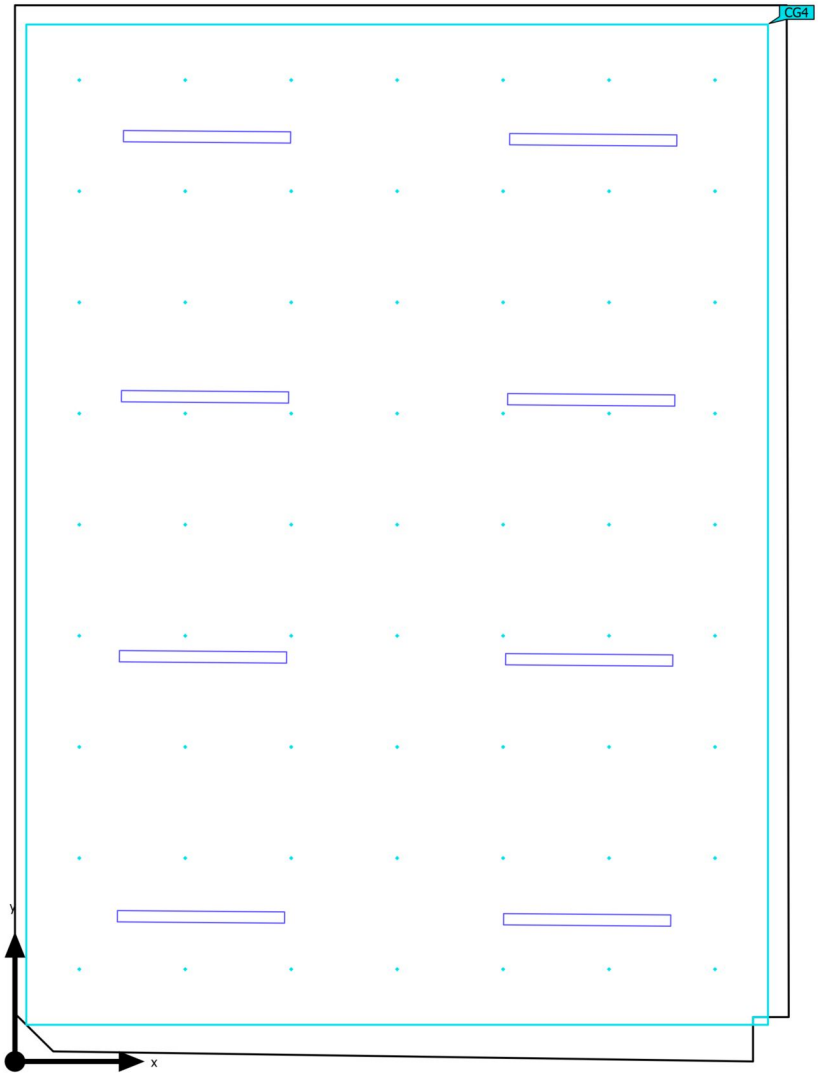
Luminaire list

Φ_{total}	P_{total}	Luminous efficacy	$\Phi_{Emergency\ lighting}$
193593 lm	1998.8 W	96.9 lm/W	1694 lm

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
49	Not yet a DIALux member	HERMÉTICA LRL10036 BL	HERMÉTICA LRL10036BL-36W		3437 lm	93.6 lm/W
5	Not yet a DIALux member	PNL 6060	PNL60640BL-PANEL-60X60-6000K-4800Lm-40W		5036 lm	125.5 lm/W
11	SYLVANIA		SYLVANIA P23342-LED EMERG R1 2X1.6W		154 lm (100 %)	-

Building 1 · Storey 1 · Cycling (Light scene 1)

Summary



Ground area	42.93 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	3.000 m

Building 1 · Storey 1 · Cycling (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Energy estimation(2)	Consumption	727 kWh/a	max. 1550 kWh/a	✓	
Room	Lighting power density	6.84 W/m²	–		

(1) Based on a rectangular space of 7.689 m x 5.633 m and SHR of 0.25.
(2) Calculated using DIN:18599-4.

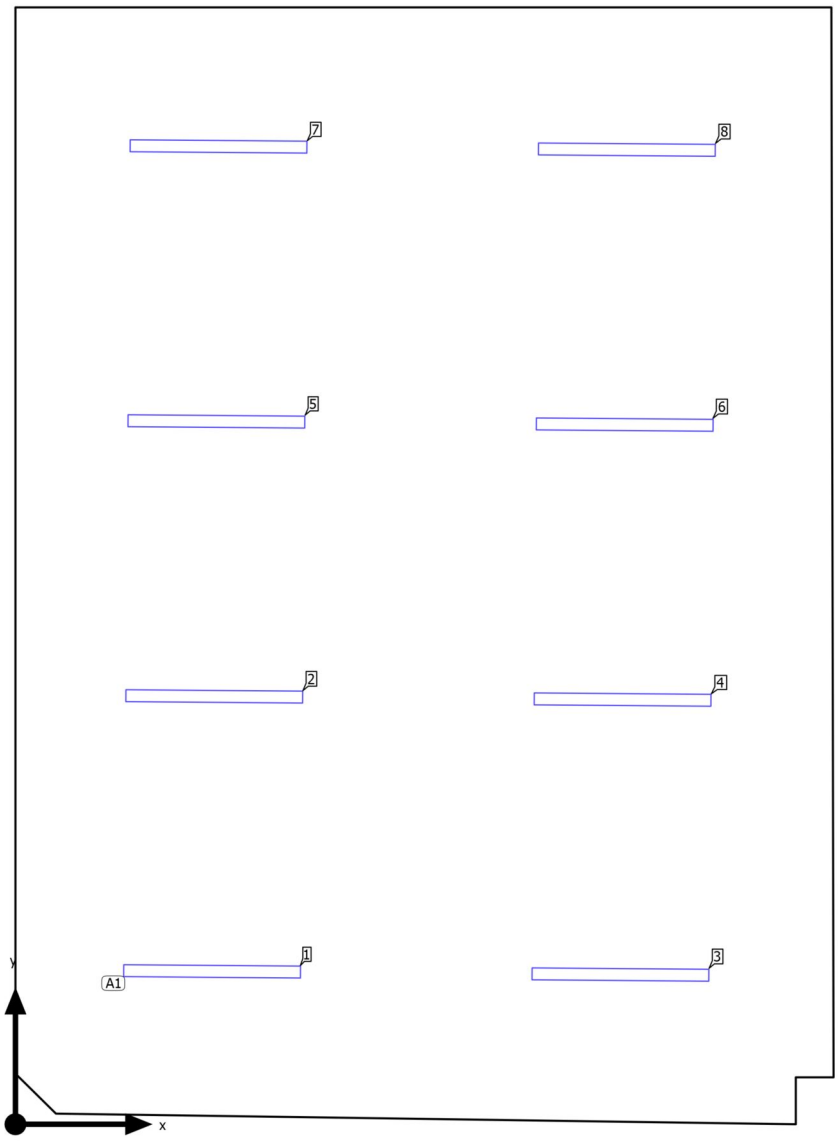
Utilisation profile: DIALux presetting (5.26.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
8	Not yet a DIALux member	HERMÉTICA LRL10036BL	HERMÉTICA LRL10036BL-36W	–	36.7 W	3437 lm	93.6 lm/W

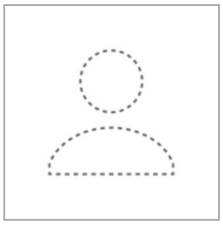
Building 1 · Storey 1 · Cycling

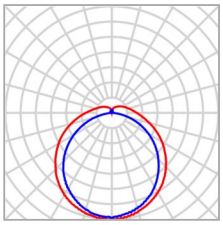
Luminaire layout plan



Building 1 · Storey 1 · Cycling

Luminaire layout plan





Manufacturer	Not yet a DIALux member
Article No.	HERMÉTICA LRL10036BL
Article name	HERMÉTICA LRL10036BL-36W
Fitting	1x

P	36.7 W
$\Phi_{Luminaire}$	3437 lm

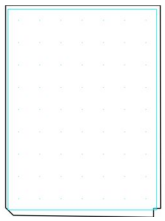
8 x Not yet a DIALux member HERMÉTICA LRL10036BL-36W

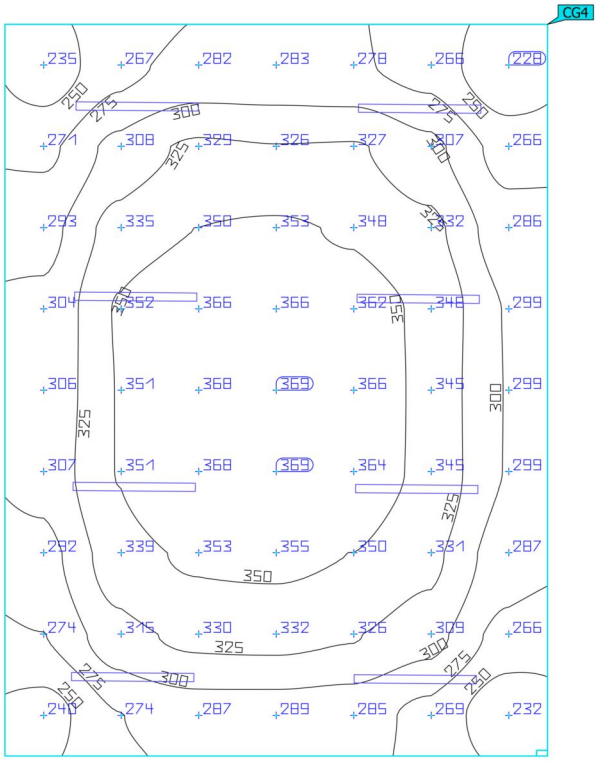
Type	Field Arrangement
1st luminaire (X/Y/Z)	1.354 m / 1.053 m / 3.000 m
X-direction	2 pcs., Centre - centre, 2.812 m
Y-direction	4 pcs., Centre - centre, 1.893 m
Arrangement	A1

X	Y	Mounting height	Luminaire
1.354 m	1.053 m	3.000 m	1
1.369 m	2.946 m	3.000 m	2
4.166 m	1.031 m	3.000 m	3
4.181 m	2.924 m	3.000 m	4
1.384 m	4.839 m	3.000 m	5
4.195 m	4.817 m	3.000 m	6
1.398 m	6.732 m	3.000 m	7
4.210 m	6.710 m	3.000 m	8

Building 1 · Storey 1 · Cycling (Light scene 1)

Cycling



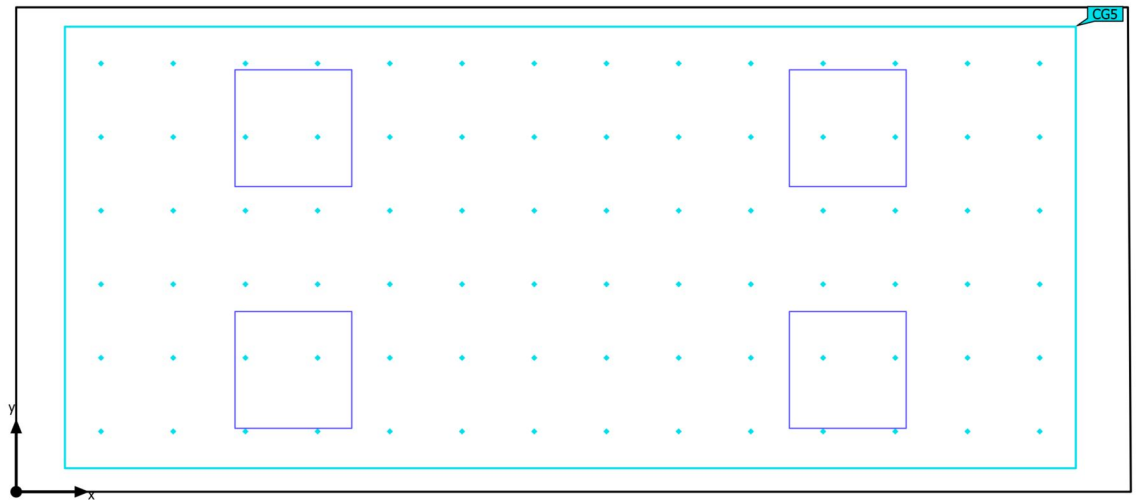


Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Cycling Perpendicular illuminance Height: 0.200 m	314 lx	228 lx	369 lx	0.73	0.62	CG4

Utilisation profile: DIALux presetting (5.26.2 Standard (office))

Building 1 · Storey 1 · Enfermeria (Light scene 1)

Summary



Ground area	14.00 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	3.000 m

Building 1 · Storey 1 · Enfermeria (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Energy estimation(2)	Consumption	397 kWh/a	max. 500 kWh/a	✓	
Room	Lighting power density	11.46 W/m²	–		

(1) Based on a rectangular space of 5.678 m x 2.469 m and SHR of 0.25.
(2) Calculated using DIN:18599-4.

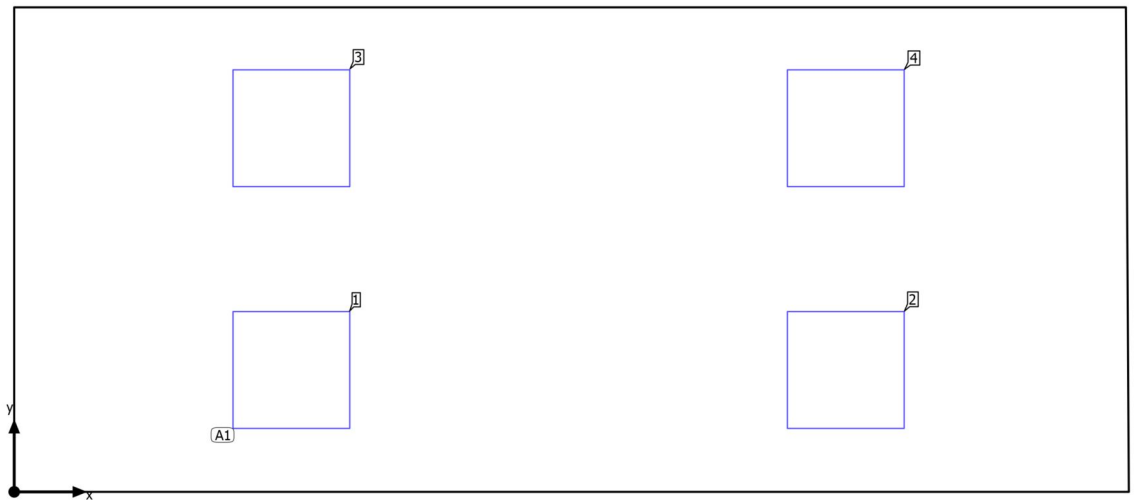
Utilisation profile: DIALux presetting (5.26.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
4	Not yet a DIALux member	PNL 6060	PNL60640BL-PANEL-60X60-6000K-4800Lm-40W	–	40.1 W	5036 lm	125.5 lm/W

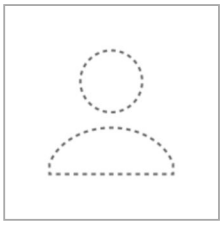
Building 1 · Storey 1 · Enfermeria

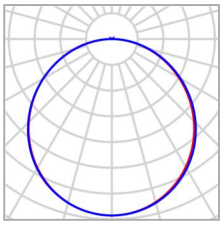
Luminaire layout plan



Building 1 · Storey 1 · Enfermeria

Luminaire layout plan





Manufacturer	Not yet a DIALux member
Article No.	PNL 6060
Article name	PNL60640BL-PANEL-60X60-6000K-4800Lm-40W
Fitting	1x

P	40.1 W
$\Phi_{Luminaire}$	5036 lm

4 x Not yet a DIALux member PNL60640BL-PANEL-60X60-6000K-4800Lm-40W

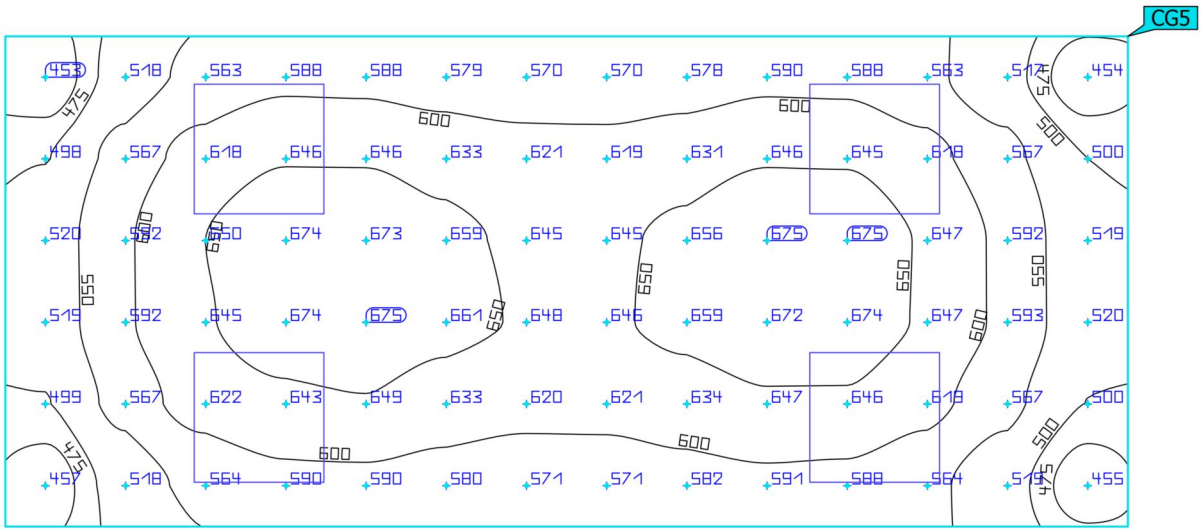
Type	Field Arrangement
1st luminaire (X/Y/Z)	1.412 m / 0.621 m / 3.000 m
X-direction	2 pcs., Centre - centre, 2.824 m
Y-direction	2 pcs., Centre - centre, 1.232 m
Arrangement	A1

X	Y	Mounting height	Luminaire
1.412 m	0.621 m	3.000 m	1
4.236 m	0.621 m	3.000 m	2
1.412 m	1.853 m	3.000 m	3
4.236 m	1.853 m	3.000 m	4

Building 1 · Storey 1 · Enfermeria (Light scene 1)

Enfermeria



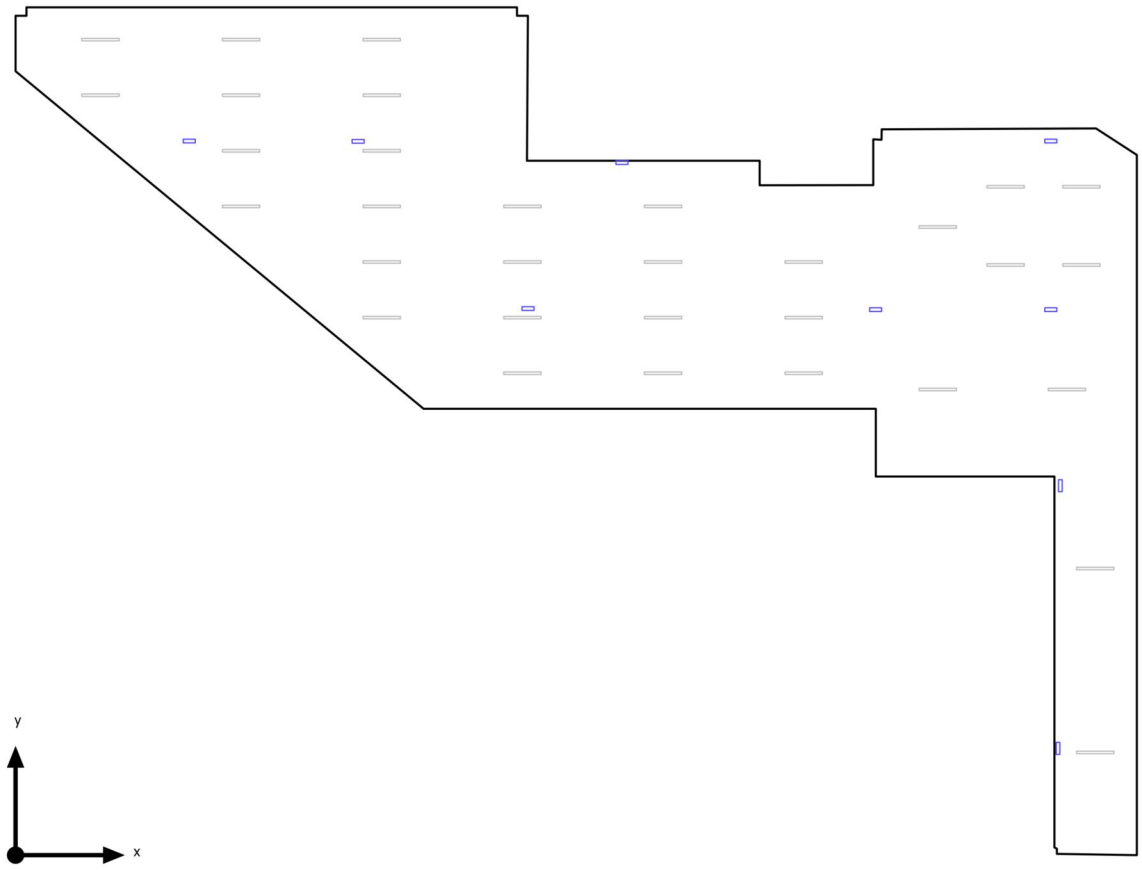


Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Enfermeria Perpendicular illuminance Height: 0.500 m	596 lx	453 lx	675 lx	0.76	0.67	CG5

Utilisation profile: DIALux presetting (5.26.2 Standard (office))

Building 1 · Storey 1 · Gimnasio (Emergency light scene)

Summary



Ground area	363.26 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	2.500 m

Building 1 · Storey 1 · Gimnasio (Emergency light scene)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Room	Lighting power density	0.00 W/m²	–		

(2) Calculated using DIN:18599-4.

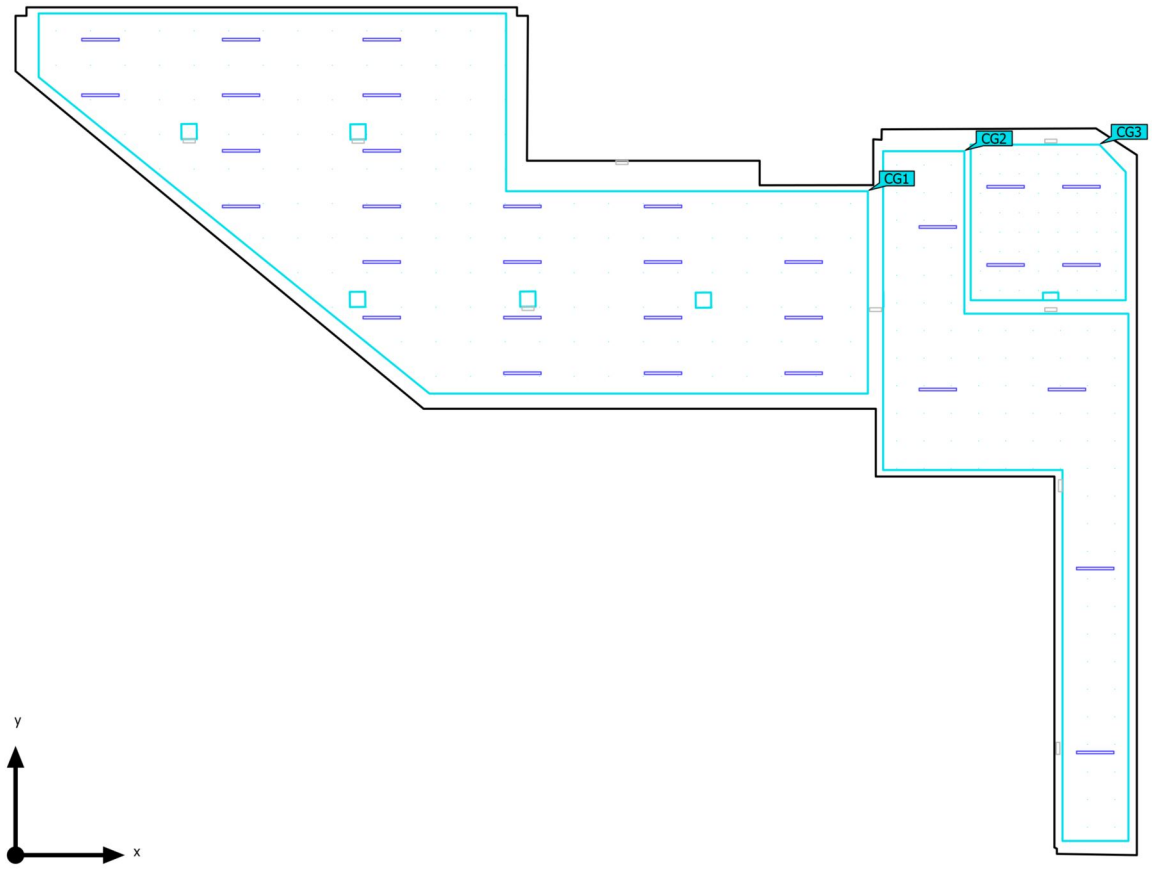
Notes on planning:
The emergency lighting scene was calculated without reflection and without taking into account the placed furniture.

Luminaire list

pcs.	Manufacturer	Article No.	Article name	Φ	Luminous efficacy
9	SYLVANIA		SYLVANIA P23342-LED EMERG R1 2X1.6W	154 lm (100 %)	-

Building 1 · Storey 1 · Gimnasio (Light scene 1)

Summary



Ground area	363.26 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	3.000 m

Building 1 · Storey 1 · Gimnasio (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Energy estimation(2)	Consumption	1562 kWh/a	max. 12750 kWh/a	✓	
Room	Lighting power density	3.23 W/m²	–		

(1) Based on a rectangular space of 45.584 m x 20.541 m and SHR of 0.25.
(2) Calculated using DIN:18599-4.

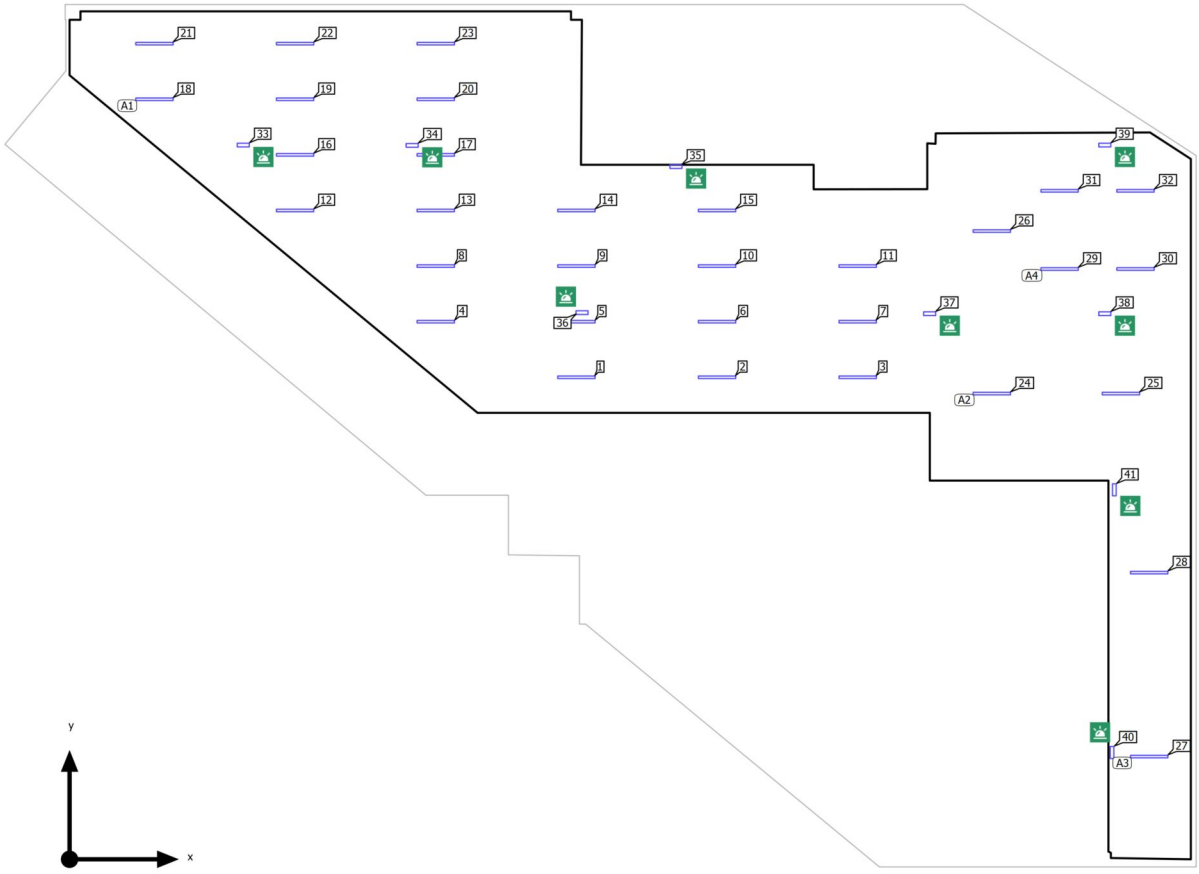
Utilisation profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
32	Not yet a DIALux member	HERMÉTICA LRL10036BL	HERMÉTICA LRL10036BL-36W	–	36.7 W	3437 lm	93.6 lm/W

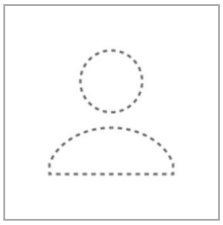
Building 1 · Storey 1 · Gimnasio

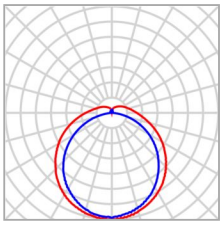
Luminaire layout plan



Building 1 · Storey 1 · Gimnasio

Luminaire layout plan





Manufacturer	Not yet a DIALux member
Article No.	HERMÉTICA LRL10036BL
Article name	HERMÉTICA LRL10036BL-36W
Fitting	1x

P	36.7 W
$\Phi_{Luminaire}$	3437 lm

23 x Not yet a DIALux member HERMÉTICA LRL10036BL-36W

Type	Field Arrangement
1st luminaire (X/Y/Z)	16.531 m / 15.720 m / 3.000 m
X-direction	6 pcs., Centre - centre, 4.588 m
Y-direction	7 pcs., Centre - centre, 1.814 m
Arrangement	A1

X	Y	Mounting height	Luminaire
16.531 m	15.720 m	3.000 m	1
21.119 m	15.720 m	3.000 m	2
25.706 m	15.720 m	3.000 m	3
11.944 m	17.534 m	3.000 m	4
16.531 m	17.534 m	3.000 m	5
21.119 m	17.534 m	3.000 m	6
25.706 m	17.534 m	3.000 m	7
11.944 m	19.347 m	3.000 m	8
16.531 m	19.347 m	3.000 m	9
21.119 m	19.347 m	3.000 m	10
25.706 m	19.347 m	3.000 m	11
7.356 m	21.161 m	3.000 m	12
11.944 m	21.161 m	3.000 m	13

Building 1 · Storey 1 · Gimnasio

Luminaire layout plan

X	Y	Mounting height	Luminaire
16.531 m	21.161 m	3.000 m	14
21.119 m	21.161 m	3.000 m	15
7.356 m	22.974 m	3.000 m	16
11.944 m	22.974 m	3.000 m	17
2.768 m	24.788 m	3.000 m	18
7.356 m	24.788 m	3.000 m	19
11.944 m	24.788 m	3.000 m	20
2.768 m	26.601 m	3.000 m	21
7.356 m	26.601 m	3.000 m	22
11.944 m	26.601 m	3.000 m	23

3 x Not yet a DIALux member HERMÉTICA LRL10036BL-36W

Type	Field Arrangement
1st luminaire (X/Y/Z)	30.081 m / 15.189 m / 3.000 m
X-direction	2 pcs., Centre - centre, 4.211 m
Y-direction	2 pcs., Centre - centre, 5.300 m
Arrangement	A2

X	Y	Mounting height	Luminaire
30.081 m	15.189 m	3.000 m	24
34.292 m	15.189 m	3.000 m	25
30.081 m	20.489 m	3.000 m	26

2 x Not yet a DIALux member HERMÉTICA LRL10036BL-36W

Type	Field Arrangement
1st luminaire (X/Y/Z)	35.214 m / 3.350 m / 3.000 m
X-direction	1 pcs., Centre - centre, 2.500 m

X	Y	Mounting height	Luminaire
35.214 m	3.350 m	3.000 m	27
35.214 m	9.350 m	3.000 m	28

Building 1 · Storey 1 · Gimnasio

Luminaire layout plan

Y-direction	2 pcs., Centre - centre, 6.000 m
Arrangement	A3

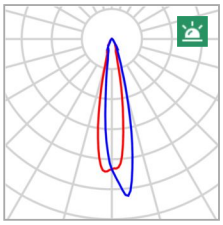
4 x Not yet a DIALux member HERMÉTICA LRL10036BL-36W

Type	Field Arrangement
1st luminaire (X/Y/Z)	32.291 m / 19.251 m / 3.000 m
X-direction	2 pcs., Centre - centre, 2.475 m
Y-direction	2 pcs., Centre - centre, 2.550 m
Arrangement	A4

X	Y	Mounting height	Luminaire
32.291 m	19.251 m	3.000 m	29
34.766 m	19.251 m	3.000 m	30
32.291 m	21.801 m	3.000 m	31
34.766 m	21.801 m	3.000 m	32

Building 1 · Storey 1 · Gimnasio

Luminaire layout plan



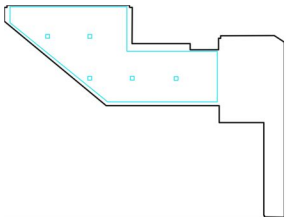
Manufacturer	SYLVANIA	$\Phi_{\text{Emergency lighting}}$	154 lm
Article name	SYLVANIA P23342-LED EMERG R1 2X1.6W	ELF	100 %
Fitting	1x		

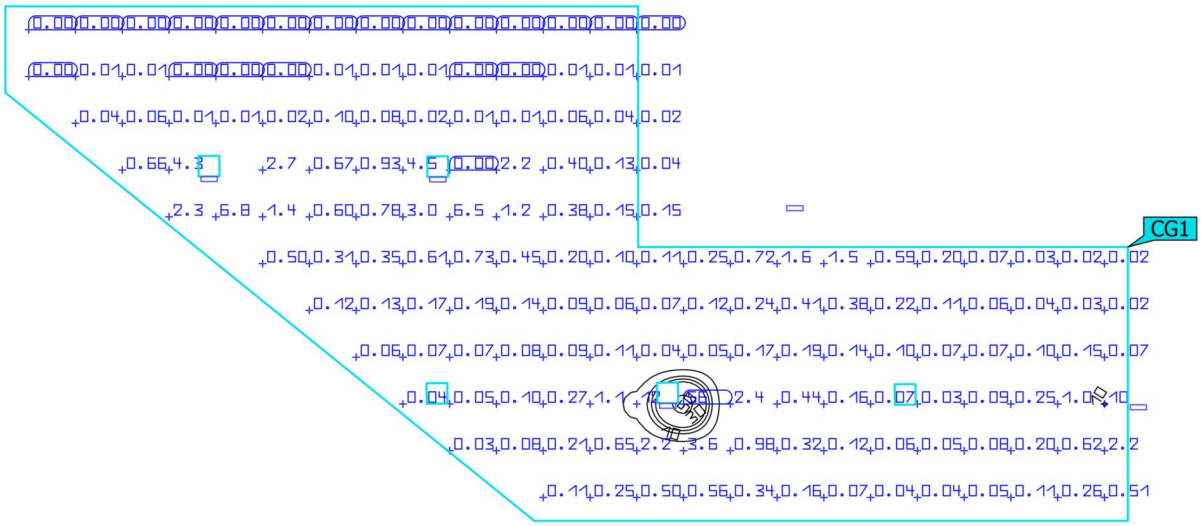
Individual luminaires

X	Y	Mounting height	Luminaire
5.664 m	23.294 m	2.500 m	33
11.173 m	23.284 m	2.500 m	34
19.777 m	22.591 m	2.500 m	35
16.714 m	17.829 m	2.500 m	36
28.053 m	17.793 m	2.500 m	37
33.766 m	17.793 m	2.500 m	38
33.766 m	23.294 m	2.500 m	39
34.001 m	3.483 m	2.500 m	40
34.076 m	12.050 m	2.500 m	41

Building 1 · Storey 1 · Gimnasio (Emergency light scene)

Gimnasio



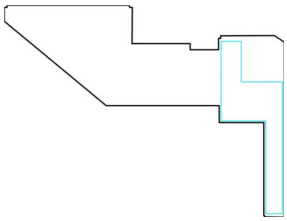


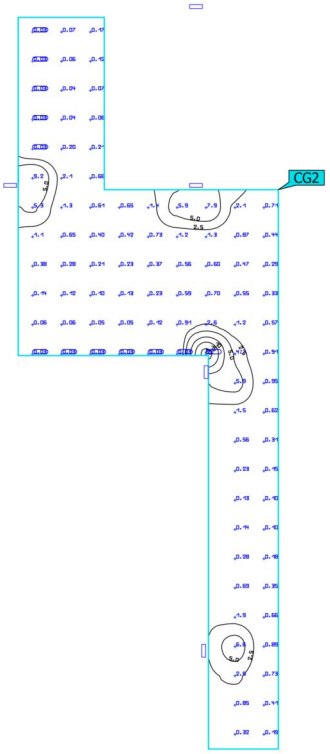
Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Gimnasio Perpendicular illuminance Height: 0.200 m	0.94 lx	0.000 lx	55.8 lx	0.00	0.00	CG1

Notes on planning:
The emergency lighting scene was calculated without reflection and without taking into account the placed furniture.

Building 1 · Storey 1 · Gimnasio (Emergency light scene)

CIrculacion



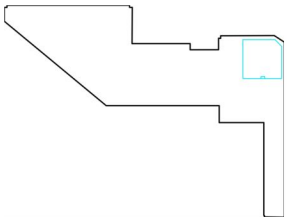


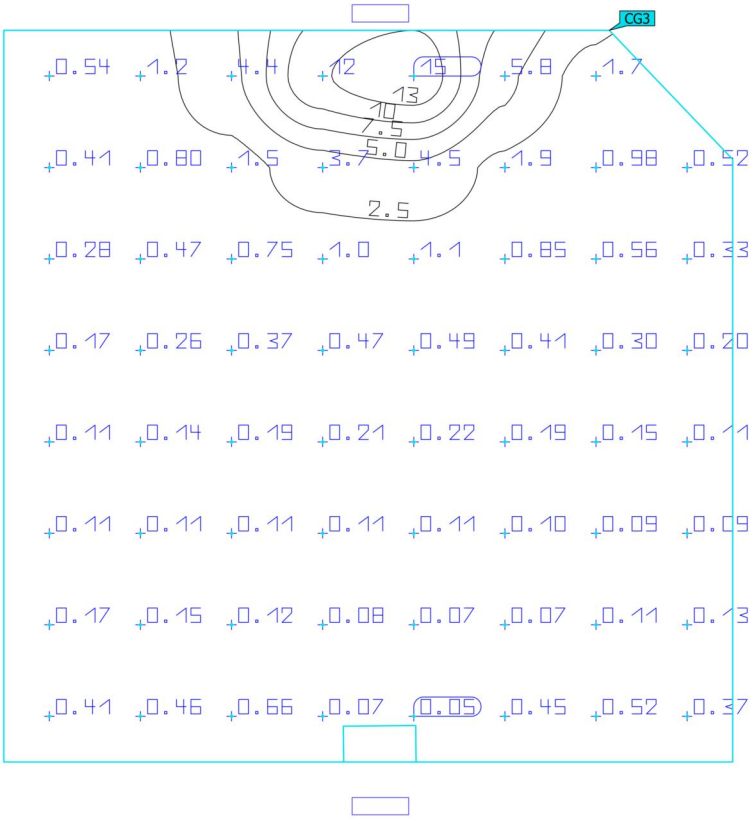
Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
CIrculacion Perpendicular illuminance Height: 0.200 m	1.16 lx	0.025 lx	21.9 lx	0.022	0.001	CG2

Notes on planning:
The emergency lighting scene was calculated without reflection and without taking into account the placed furniture.

Building 1 · Storey 1 · Gimnasio (Emergency light scene)

Gimnasio 2



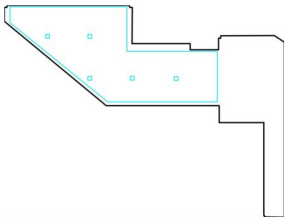


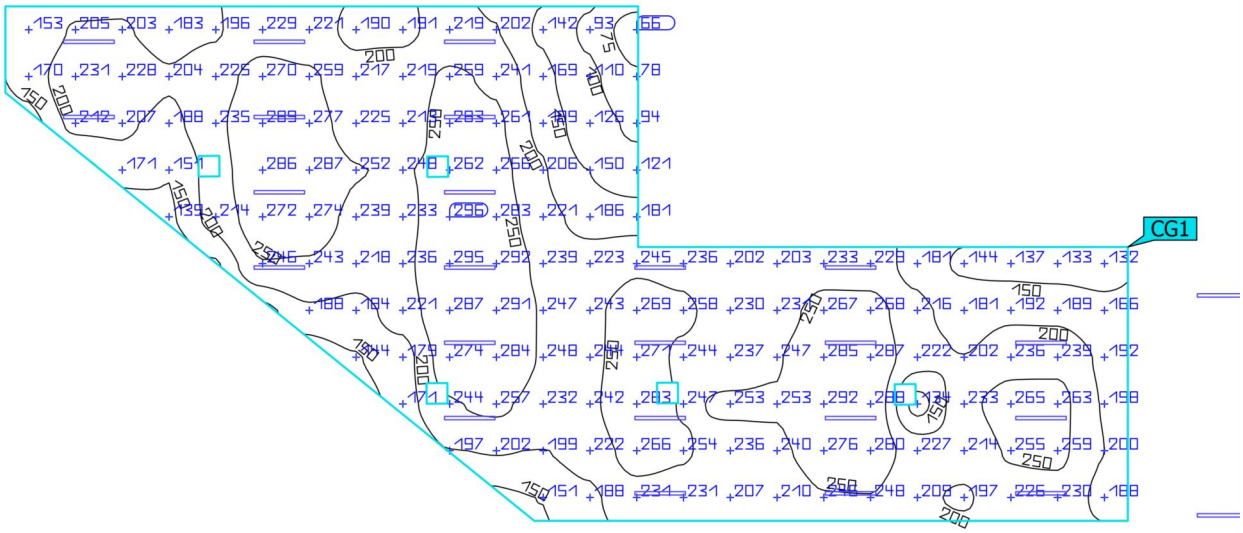
Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Gimnasio 2 Perpendicular illuminance Height: 0.200 m	1.09 lx	0.048 lx	14.6 lx	0.044	0.003	CG3

Notes on planning:
The emergency lighting scene was calculated without reflection and without taking into account the placed furniture.

Building 1 · Storey 1 · Gimnasio (Light scene 1)

Gimnasio



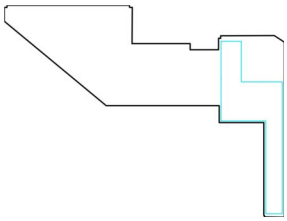


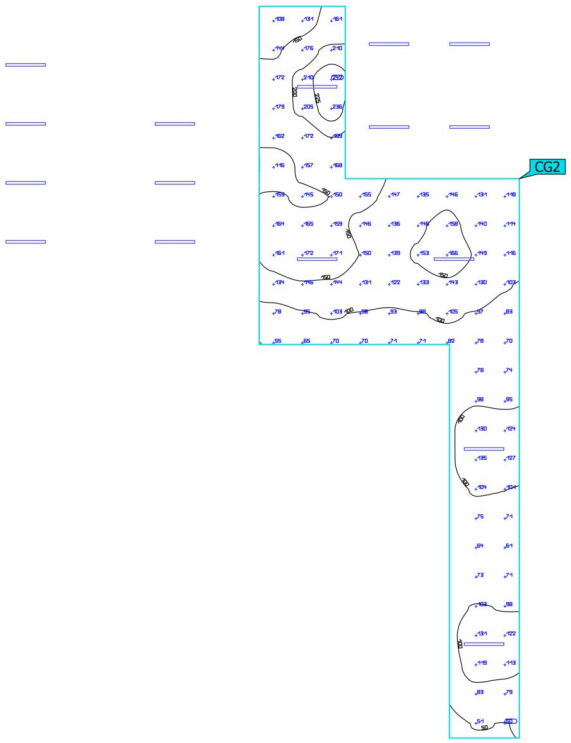
Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Gimnasio Perpendicular illuminance Height: 0.200 m	220 lx	66.1 lx	296 lx	0.30	0.22	CG1

Utilisation profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Building 1 · Storey 1 · Gimnasio (Light scene 1)

CIrculacion



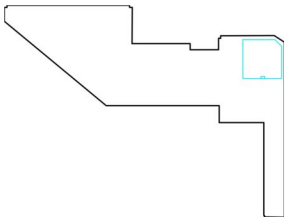


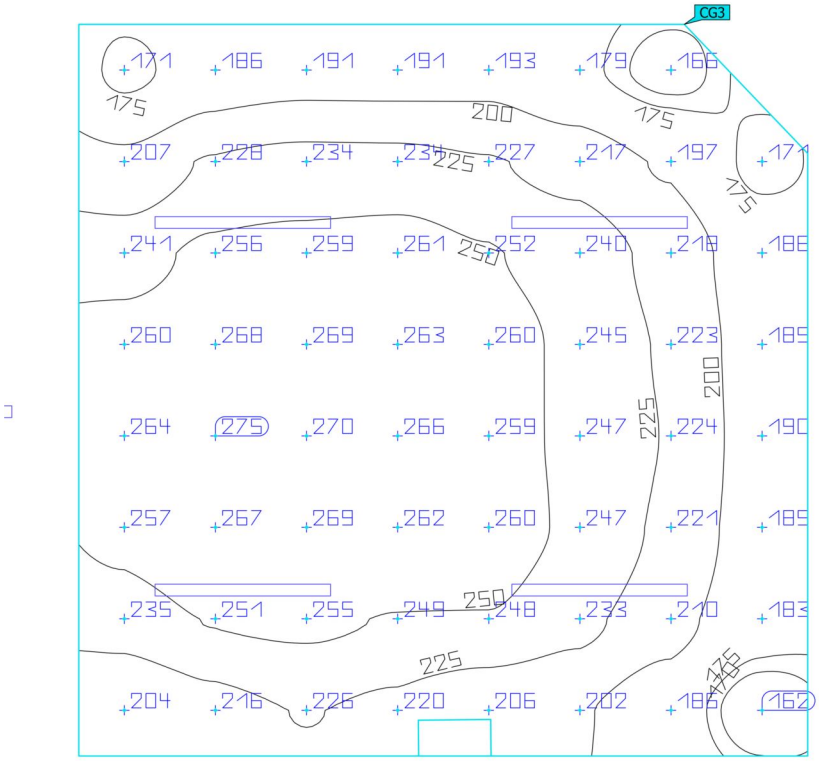
Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
CIrculacion Perpendicular illuminance Height: 0.200 m	125 lx	49.5 lx	242 lx	0.40	0.20	CG2

Utilisation profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Building 1 · Storey 1 · Gimnasio (Light scene 1)

Gimnasio 2



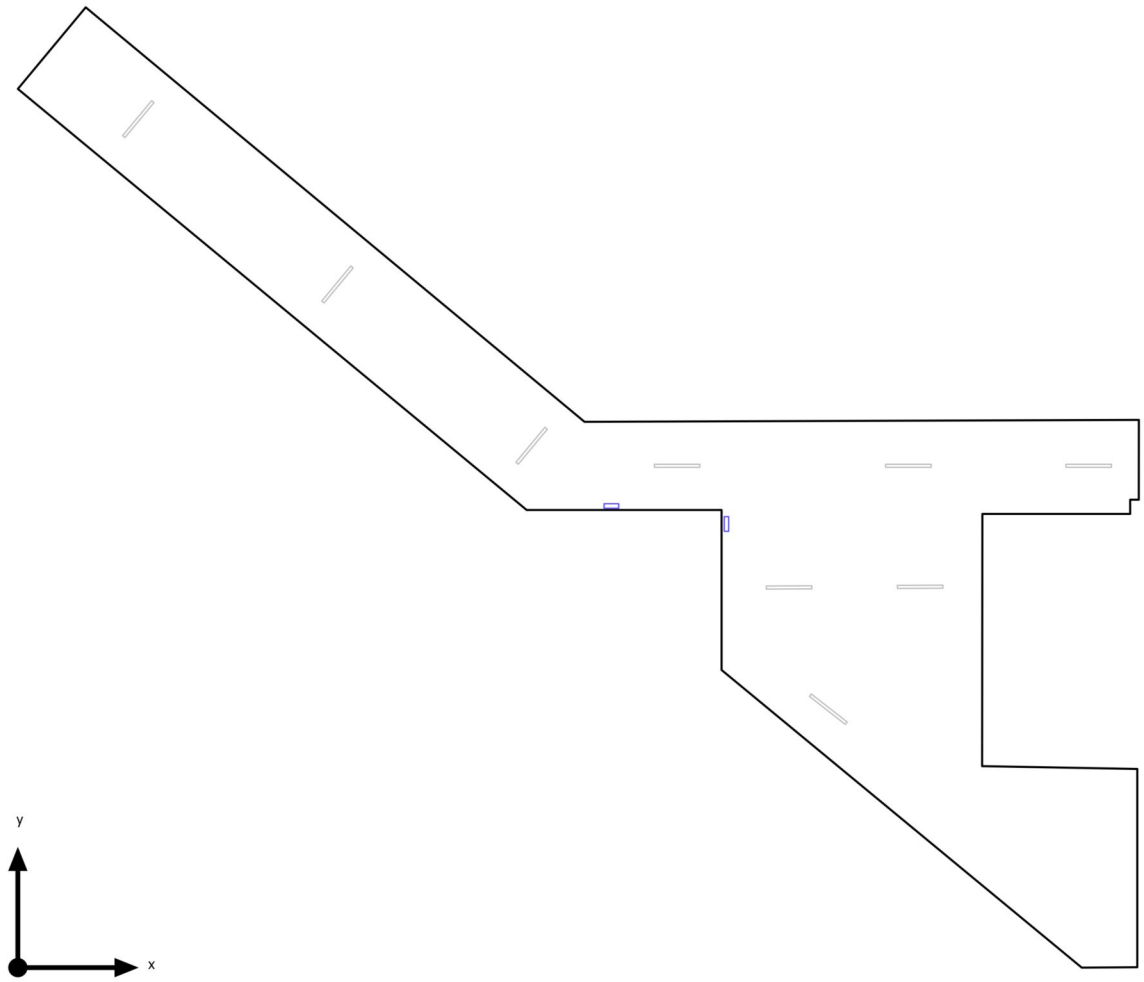


Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Gimnasio 2 Perpendicular illuminance Height: 0.200 m	228 lx	162 lx	275 lx	0.71	0.59	CG3

Utilisation profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Building 1 · Storey 1 · Hall de ascensores (Emergency light scene)

Summary



Ground area	155.86 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	2.500 m

Building 1 · Storey 1 · Hall de ascensores (Emergency light scene)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Room	Lighting power density	0.00 W/m²	–		

(2) Calculated using DIN:18599-4.

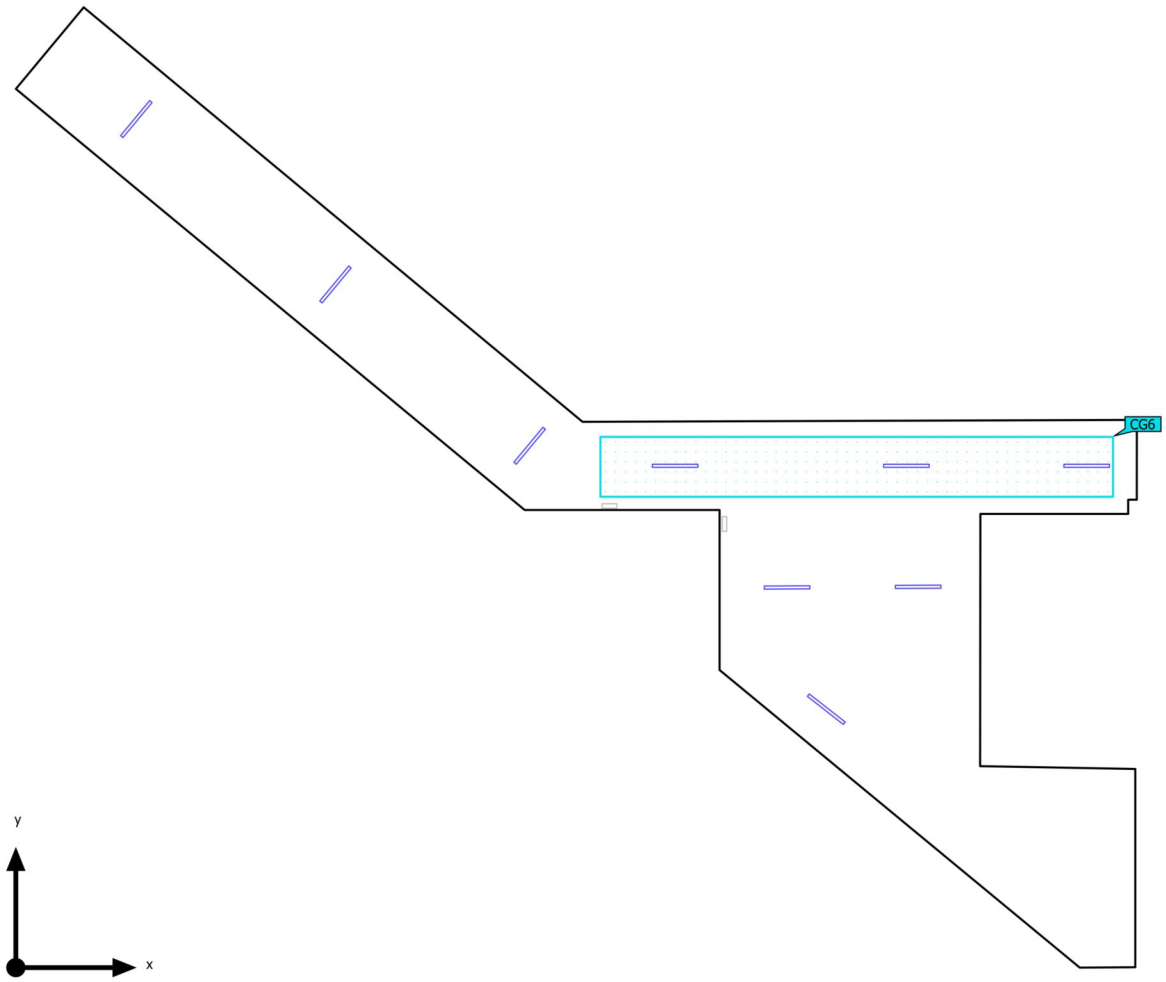
Notes on planning:
The emergency lighting scene was calculated without reflection and without taking into account the placed furniture.

Luminaire list

pcs.	Manufacturer	Article No.	Article name	Φ	Luminous efficacy
2	SYLVANIA		SYLVANIA P23342-LED EMERG R1 2X1.6W	154 lm (100 %)	-

Building 1 · Storey 1 · Hall de ascensores (Light scene 1)

Summary



Ground area	155.86 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	3.000 m

Building 1 · Storey 1 · Hall de ascensores (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Energy estimation(2)	Consumption	817 kWh/a	max. 5500 kWh/a	✓	
Room	Lighting power density	2.12 W/m²	–		

(1) Based on a rectangular space of 38.018 m x 12.280 m and SHR of 0.25.
(2) Calculated using DIN:18599-4.

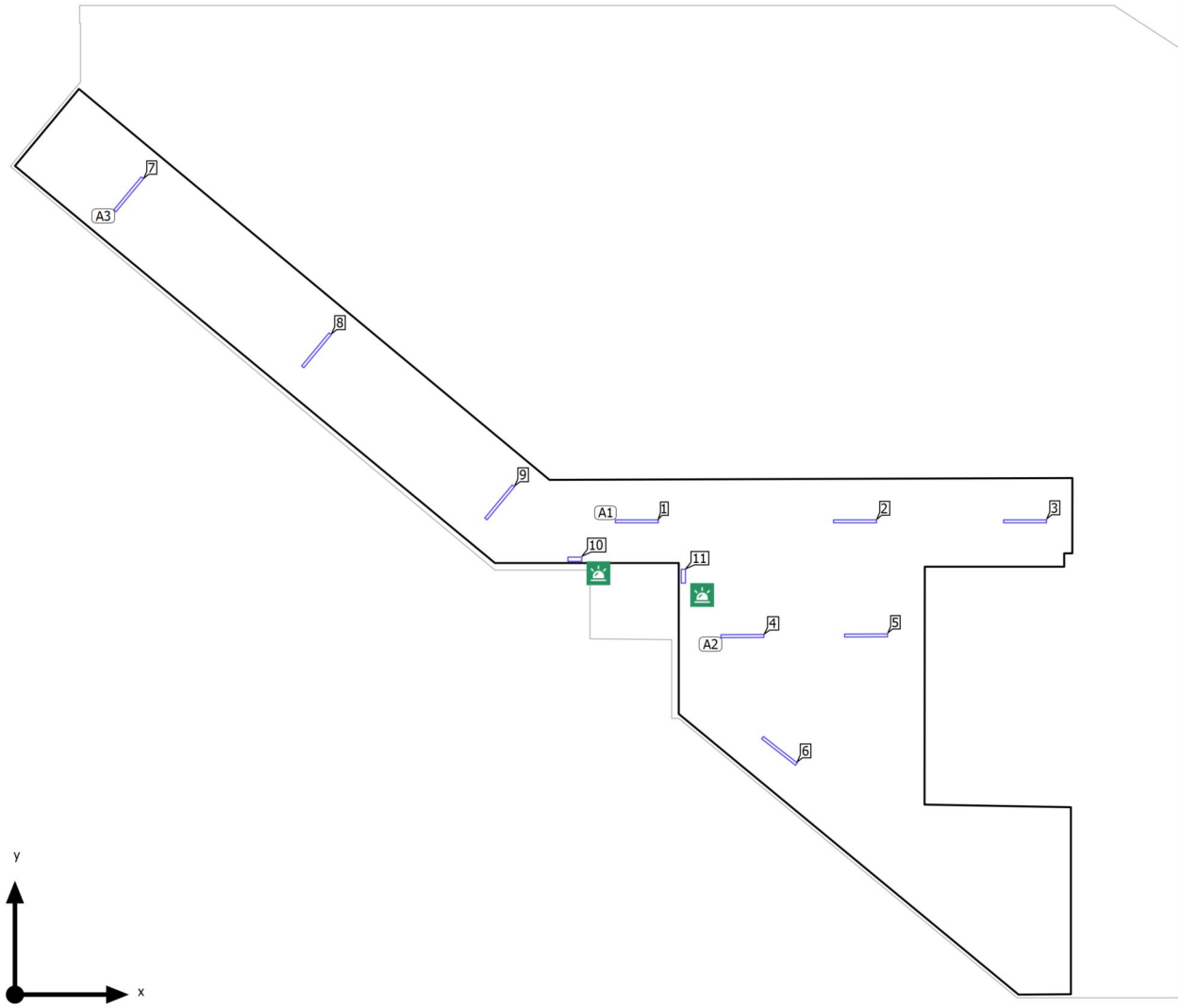
Utilisation profile: DIALux presetting (5.26.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
9	Not yet a DIALux member	HERMÉTICA LRL10036BL	HERMÉTICA LRL10036BL-36W	–	36.7 W	3437 lm	93.6 lm/W

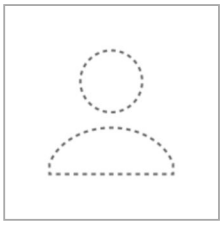
Building 1 · Storey 1 · Hall de ascensores

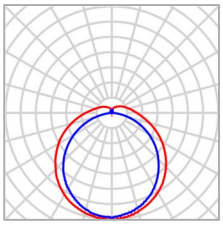
Luminaire layout plan



Building 1 · Storey 1 · Hall de ascensores

Luminaire layout plan





Manufacturer	Not yet a DIALux member
Article No.	HERMÉTICA LRL10036BL
Article name	HERMÉTICA LRL10036BL-36W
Fitting	1x

P	36.7 W
$\Phi_{Luminaire}$	3437 lm

3 x Not yet a DIALux member HERMÉTICA LRL10036BL-36W

Type	Field Arrangement
1st luminaire (X/Y/Z)	17.619 m / 13.415 m / 3.000 m
X-direction	3 pcs., Centre - centre, Distances not equal
Y-direction	1 pcs., Centre - centre, Distances not equal
Arrangement	A1

X	Y	Mounting height	Luminaire
17.619 m	13.415 m	3.000 m	1
23.801 m	13.415 m	3.000 m	2
28.619 m	13.415 m	3.000 m	3

2 x Not yet a DIALux member HERMÉTICA LRL10036BL-36W

Type	Line arrangement
1st luminaire (X/Y/Z)	20.611 m / 10.162 m / 3.000 m
X-direction	2 pcs., Centre - centre, 3.503 m
Arrangement	A2

X	Y	Mounting height	Luminaire
20.611 m	10.162 m	3.000 m	4
24.114 m	10.180 m	3.000 m	5

Building 1 · Storey 1 · Hall de ascensores

Luminaire layout plan

3 x Not yet a DIALux member HERMÉTICA LRL10036BL-36W

Type	Field Arrangement
1st luminaire (X/Y/Z)	3.219 m / 22.683 m / 3.000 m
X-direction	3 pcs., Centre - centre, Distances not equal
Y-direction	1 pcs., Centre - centre, Distances not equal
Arrangement	A3

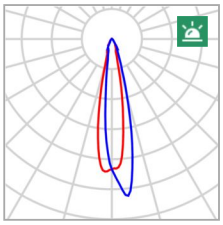
X	Y	Mounting height	Luminaire
3.219 m	22.683 m	3.000 m	7
8.542 m	18.262 m	3.000 m	8
13.731 m	13.951 m	3.000 m	9

Individual luminaires

X	Y	Mounting height	Luminaire
21.660 m	6.907 m	3.000 m	6

Building 1 · Storey 1 · Hall de ascensores

Luminaire layout plan



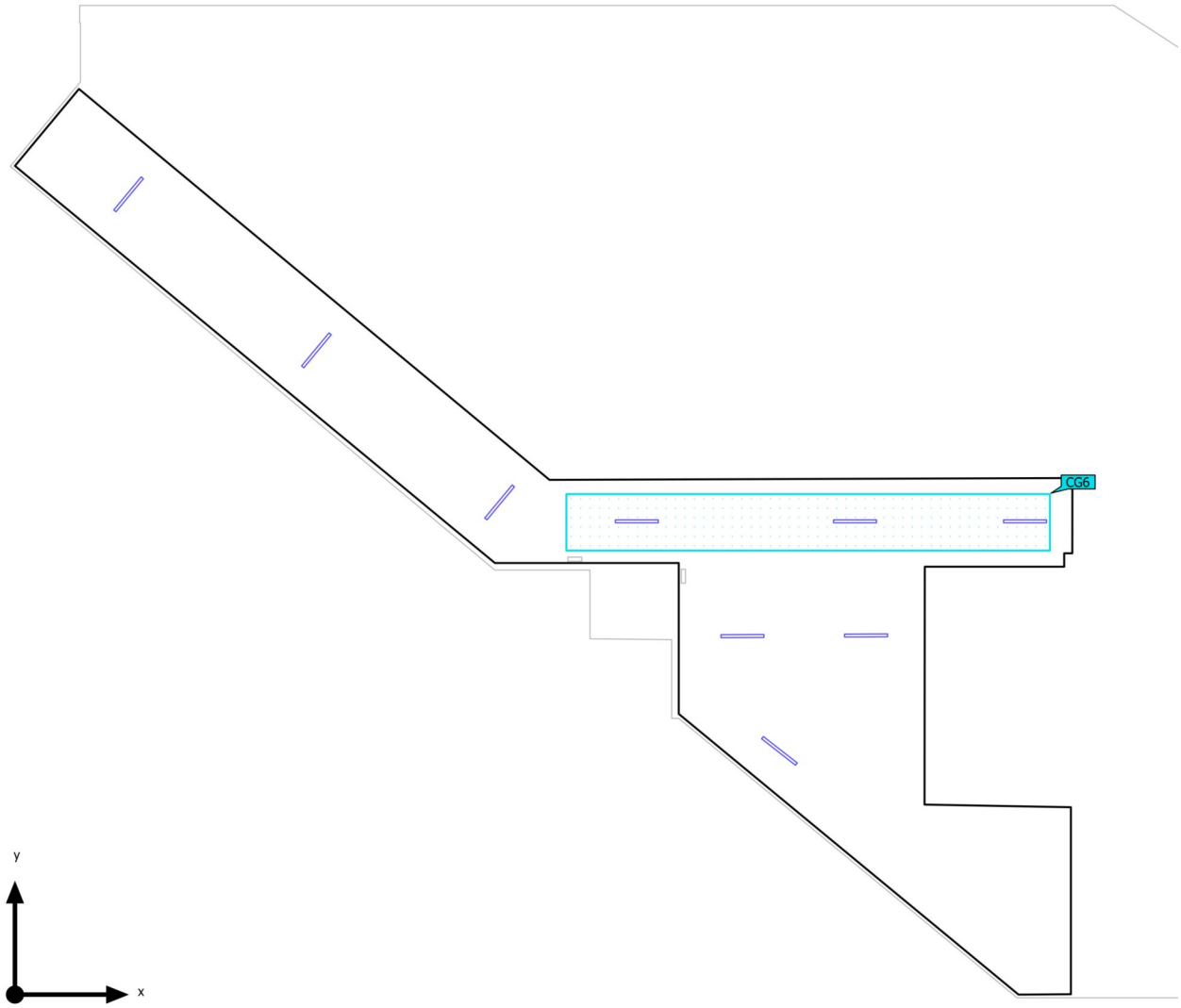
Manufacturer	SYLVANIA	$\Phi_{\text{Emergency lighting}}$	154 lm
Article name	SYLVANIA P23342-LED EMERG R1 2X1.6W	ELF	100 %
Fitting	1x		

Individual luminaires

X	Y	Mounting height	Luminaire
15.863 m	12.340 m	2.500 m	10
18.938 m	11.859 m	2.500 m	11

Building 1 · Storey 1 · Hall de ascensores (Light scene 1)

Calculation objects



Building 1 · Storey 1 · Hall de ascensores (Light scene 1)

Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Hall Circulacion Perpendicular illuminance Height: 0.200 m	134 lx	92.9 lx	174 lx	0.69	0.53	CG6

Hall Circulacion (UGR)

Strongest glare at	345°
max	23.0
Target	≤19.0
Viewing sector	0° - 360°
Step width	15°
Height	0.200 m
Index	CG6

Building 1 · Storey 1 · Hall de ascensores (Light scene 1)

Calculation objects

Hall Circulacion (UGR)

Building 1 · Storey 1 · Hall de ascensores (Light scene 1)

Calculation objects

(1) Based on a rectangular space of 38.018 m x 12.280 m and SHR of 0.25.

Utilisation profile: DIALux presetting (5.26.2 Standard (office))

Building 1 · Storey 1 · Hall de ascensores (Emergency light scene)

Hall Circulacion

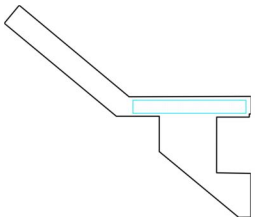


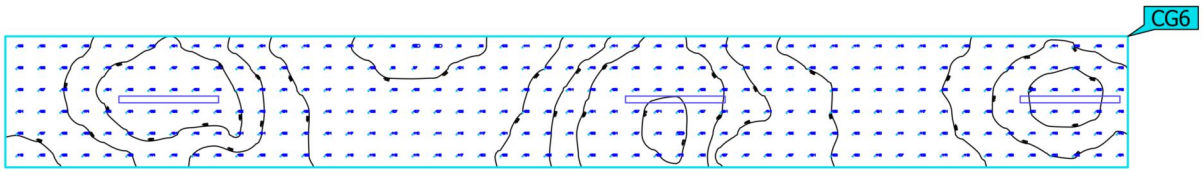
Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Hall Circulacion Perpendicular illuminance Height: 0.200 m	1.80 lx	0.001 lx	94.4 lx	0.001	0.000	CG6

Notes on planning:
The emergency lighting scene was calculated without reflection and without taking into account the placed furniture.

Building 1 · Storey 1 · Hall de ascensores (Light scene 1)

Hall Circulacion





Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Hall Circulacion Perpendicular illuminance Height: 0.200 m	134 lx	92.9 lx	174 lx	0.69	0.53	CG6

Utilisation profile: DIALux presetting (5.26.2 Standard (office))