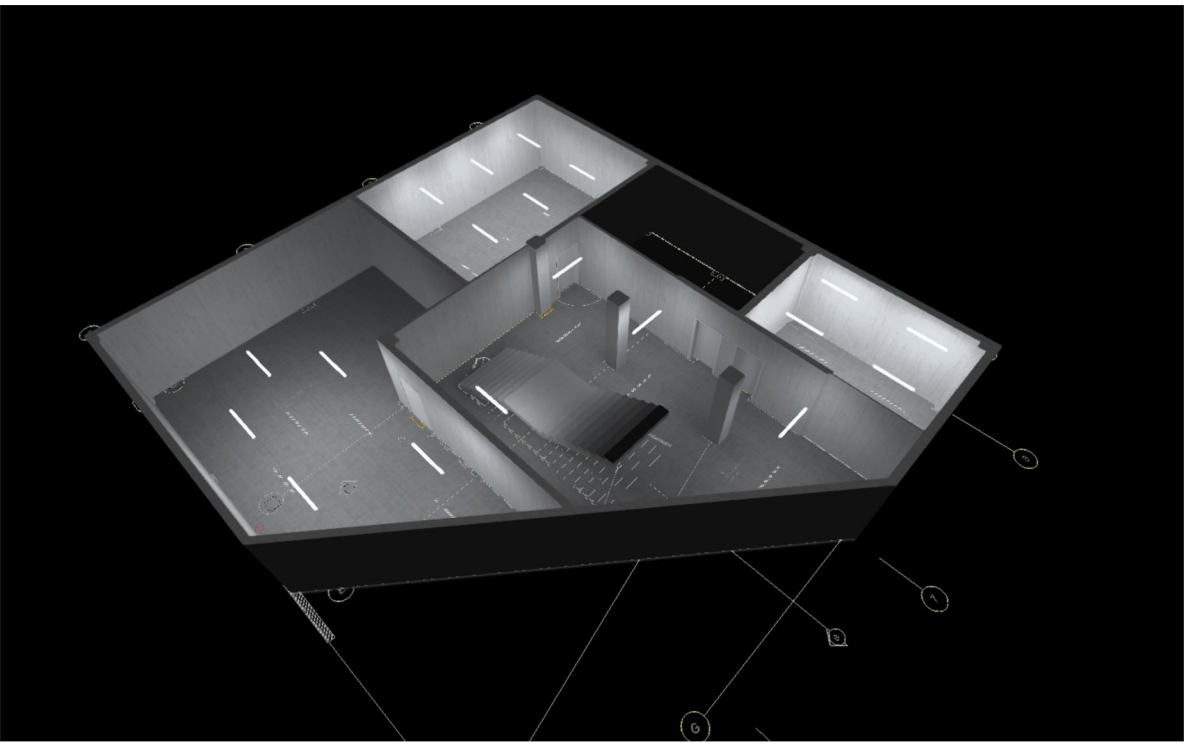


Unidad deportiva - Santafe de Antioquia

Informe de iluminacion del Piso -1, Oficinas, Cuarto de Maquinas y Cuarto tecnico.

Created with DIALux

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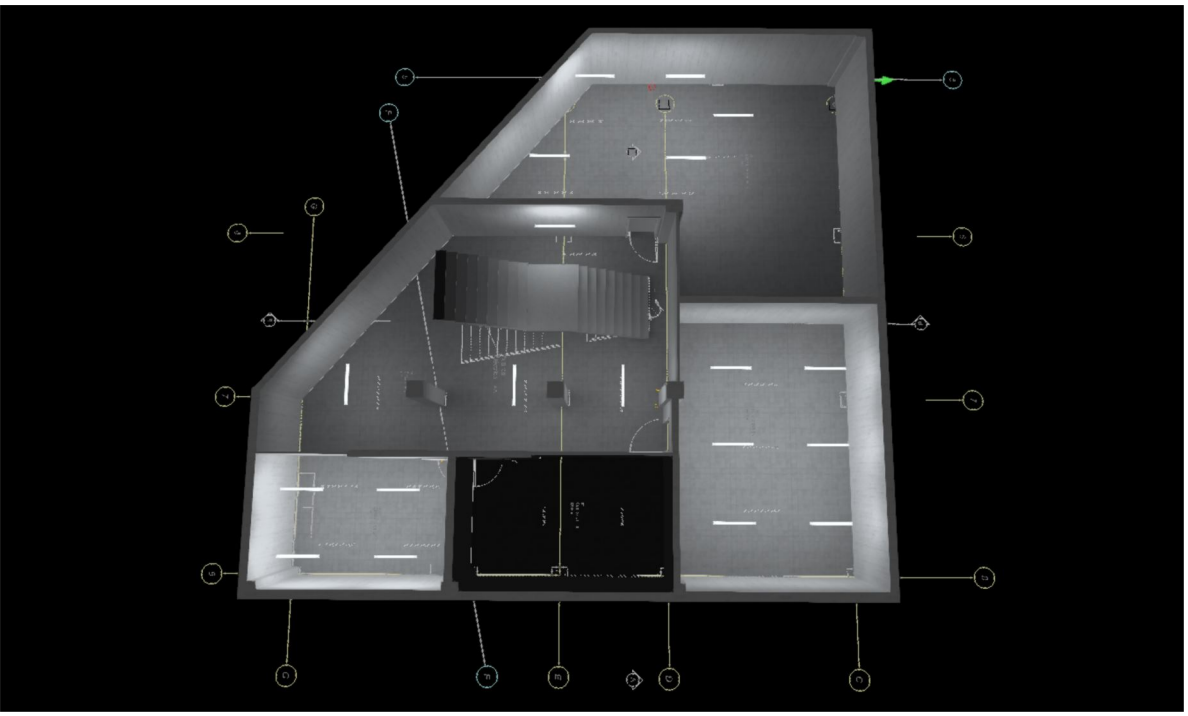
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Description

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

DIALux

Luminaire list

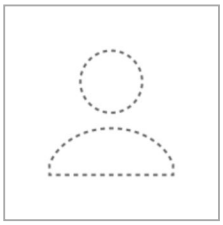
Φ_{total}	P_{total}	Luminous efficacy	$\Phi_{Emergency\ lighting}$
65303 lm	697.3 W	93.7 lm/W	308 lm

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
19	Not yet a DIALux member	HERMÉTICA LRL10036 BL	HERMÉTICA LRL10036BL-36W		3437 lm	93.6 lm/W
2	SYLVANIA		SYLVANIA P23342-LED EMERG R1 2X1.6W		154 lm (100 %)	-

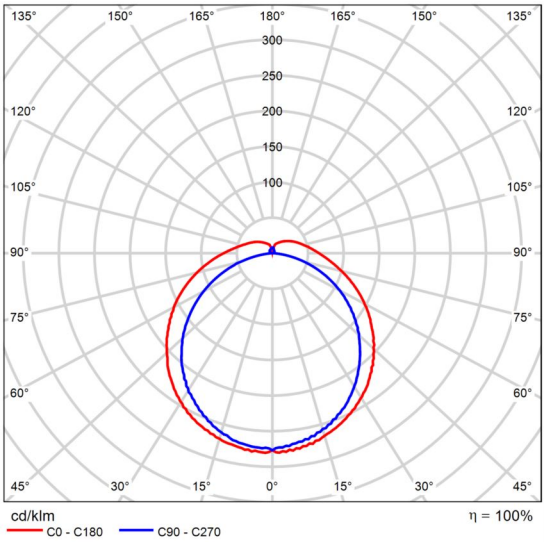
DIALux

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



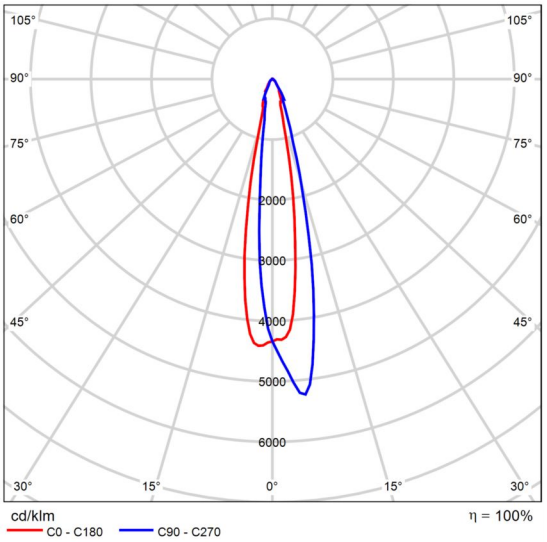
Polar LDC

DIALux

Product data sheet

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

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



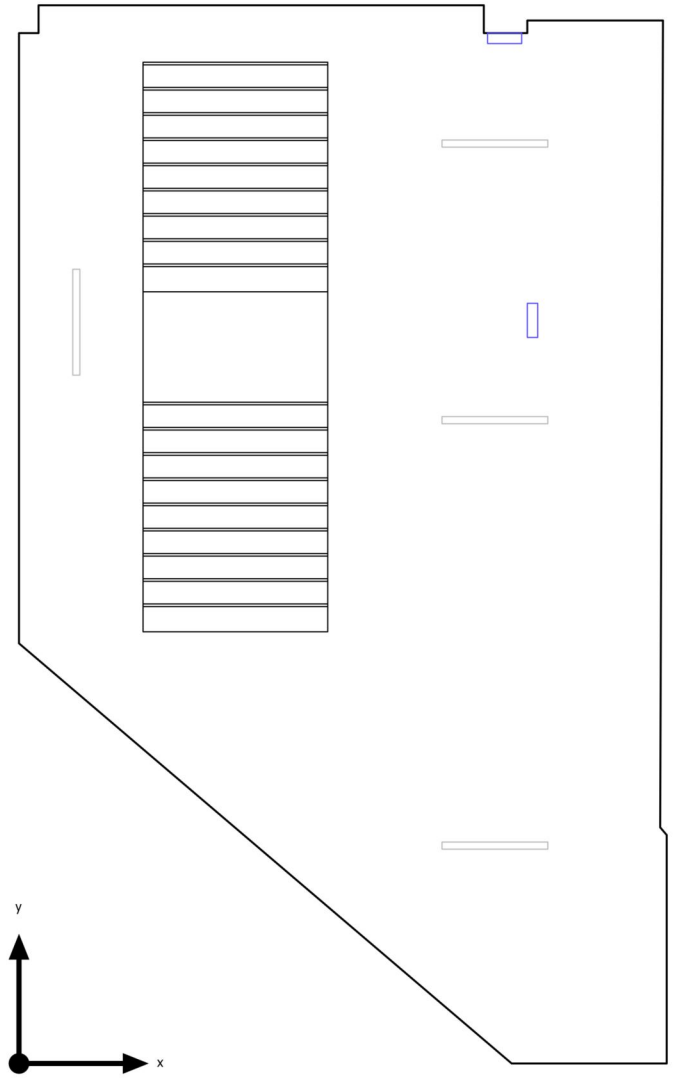
Polar LDC

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]

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

Summary



Ground area	75.91 m²
Reflection factors	Ceiling: 70.0 %, Walls: 55.4 %, Floor: 22.3 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	2.500 m

Building 1 · Storey 1 · Circulacion (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.

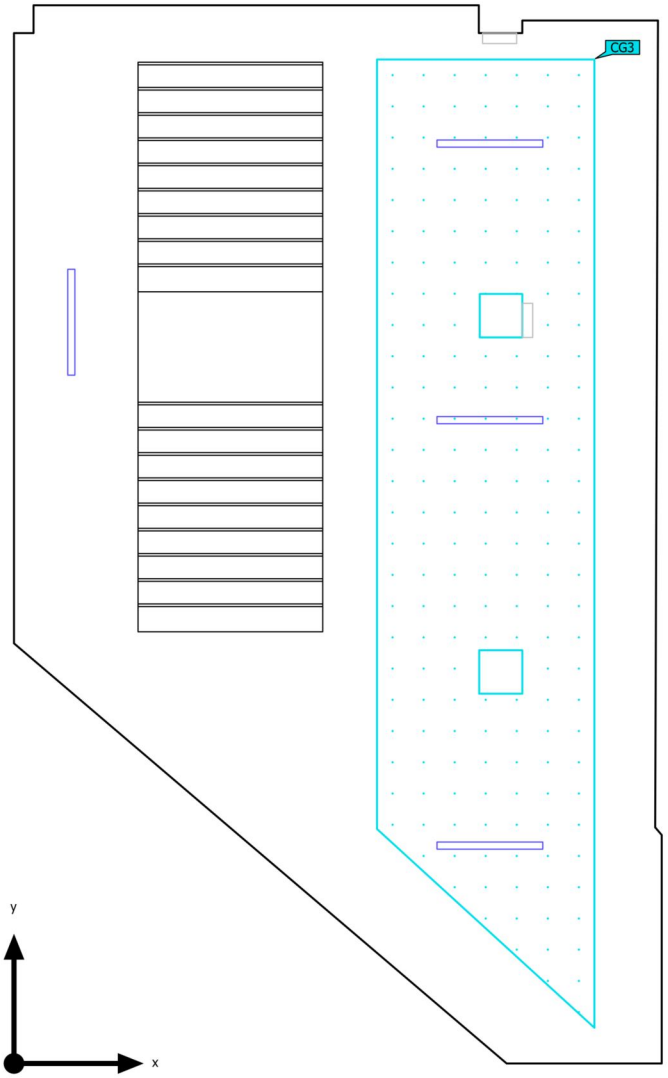
Luminaire list

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

DIALux

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

Summary



Ground area	75.91 m²
Reflection factors	Ceiling: 70.0 %, Walls: 55.4 %, Floor: 22.3 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	3.000 m

DIALux

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Energy estimation(2)	Consumption	363 kWh/a	max. 2700 kWh/a	✓	
Room	Lighting power density	1.93 W/m²	–		

(1) Based on a rectangular space of 7.449 m x 12.170 m and SHR of 0.25.
(2) Calculated using DIN:18599-4.

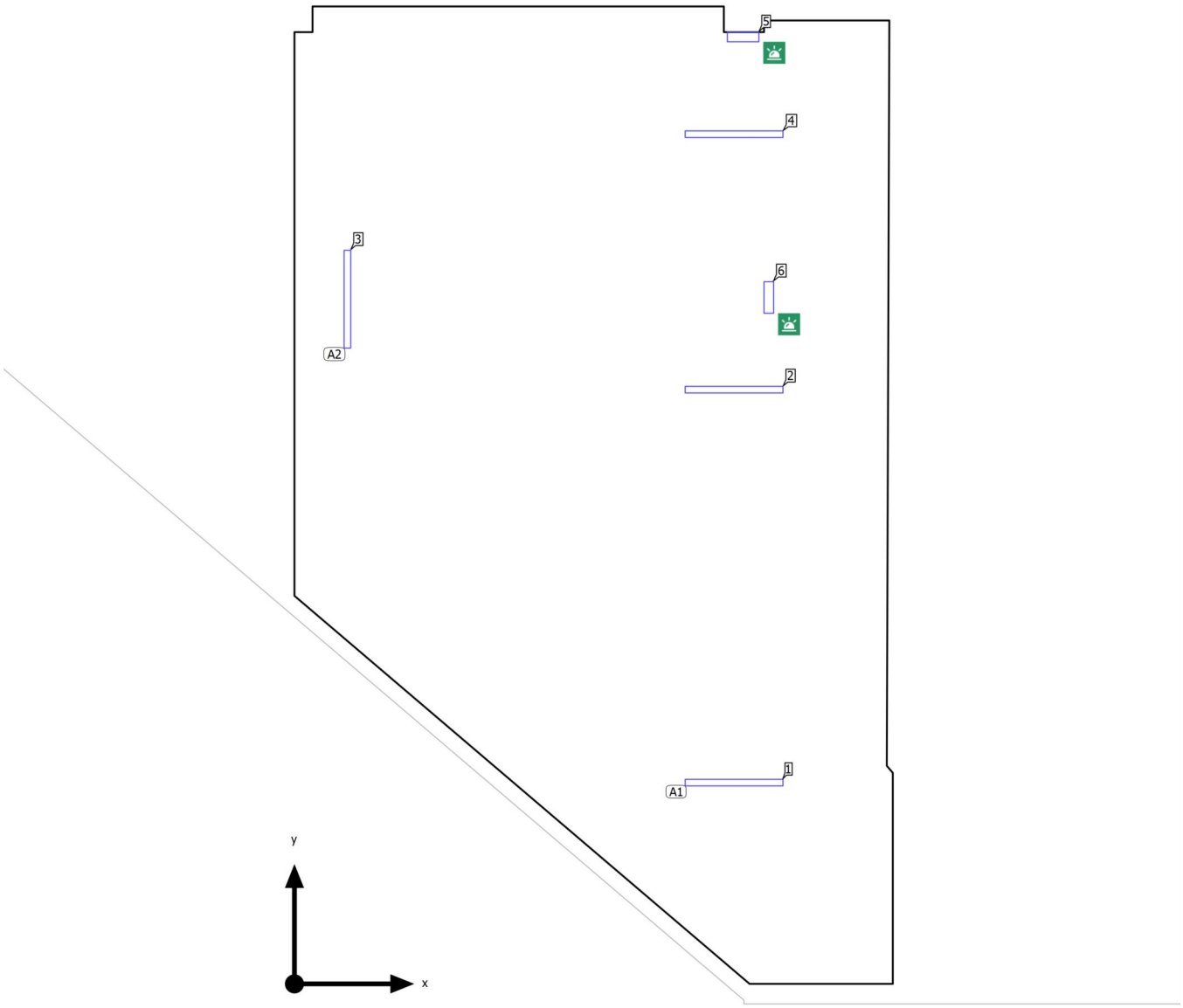
Utilisation profile: DIALux presetting (5.26.2 Standard (office))

Luminaire list

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

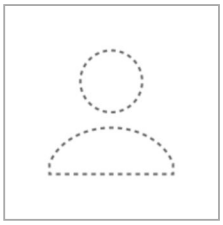
Building 1 · Storey 1 · Circulacion

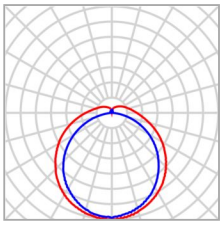
Luminaire layout plan



Building 1 · Storey 1 · Circulacion

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)	5.473 m / 2.506 m / 3.000 m
X-direction	1 pcs., Centre - centre, Distances not equal
Y-direction	3 pcs., Centre - centre, Distances not equal
Arrangement	A1

X	Y	Mounting height	Luminaire
5.473 m	2.506 m	3.000 m	1
5.473 m	7.399 m	3.000 m	2
5.473 m	10.580 m	3.000 m	4

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

Type	Field Arrangement
1st luminaire (X/Y/Z)	0.659 m / 8.525 m / 3.000 m
X-direction	1 pcs., Centre - centre, 1.319 m

X	Y	Mounting height	Luminaire
0.659 m	8.525 m	3.000 m	3

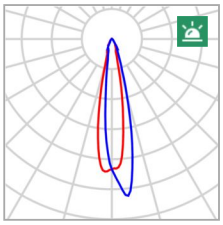
Building 1 · Storey 1 · Circulacion

Luminaire layout plan

Y-direction	1 pcs., Centre - centre, 7.150 m
Arrangement	A2

Building 1 · Storey 1 · Circulacion

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
5.585 m	11.790 m	2.500 m	5
5.906 m	8.546 m	2.500 m	6

DIALux

Building 1 · Storey 1 · Circulacion

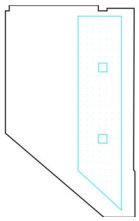
Luminaire list

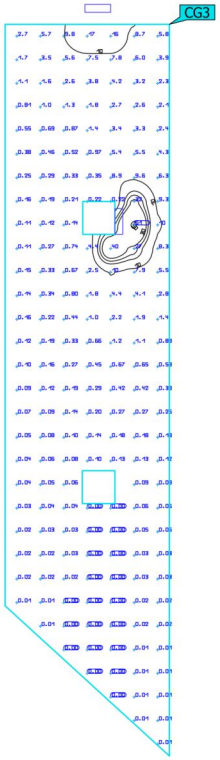
Φ_{total}	P_{total}	Luminous efficacy	$\Phi_{Emergency\ lighting}$
13748 lm	146.8 W	93.7 lm/W	308 lm

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Not yet a DIALux member	HERMÉTICA LRL10036BL	HERMÉTICA LRL10036BL-36W		3437 lm	93.6 lm/W
2	SYLVANIA		SYLVANIA P23342-LED EMERG R1 2X1.6W		154 lm (100 %)	-

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

CIrculacion P.-1



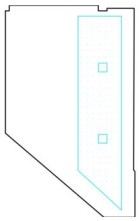


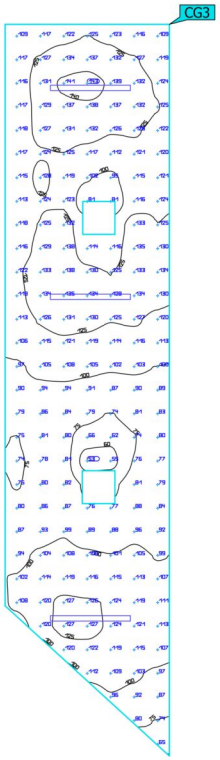
Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
CIrculacion P.-1 Perpendicular illuminance Height: 0.200 m	2.28 lx	0.00 lx	51.4 lx	0.00	0.00	CG3

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

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

CIrculacion P.-1



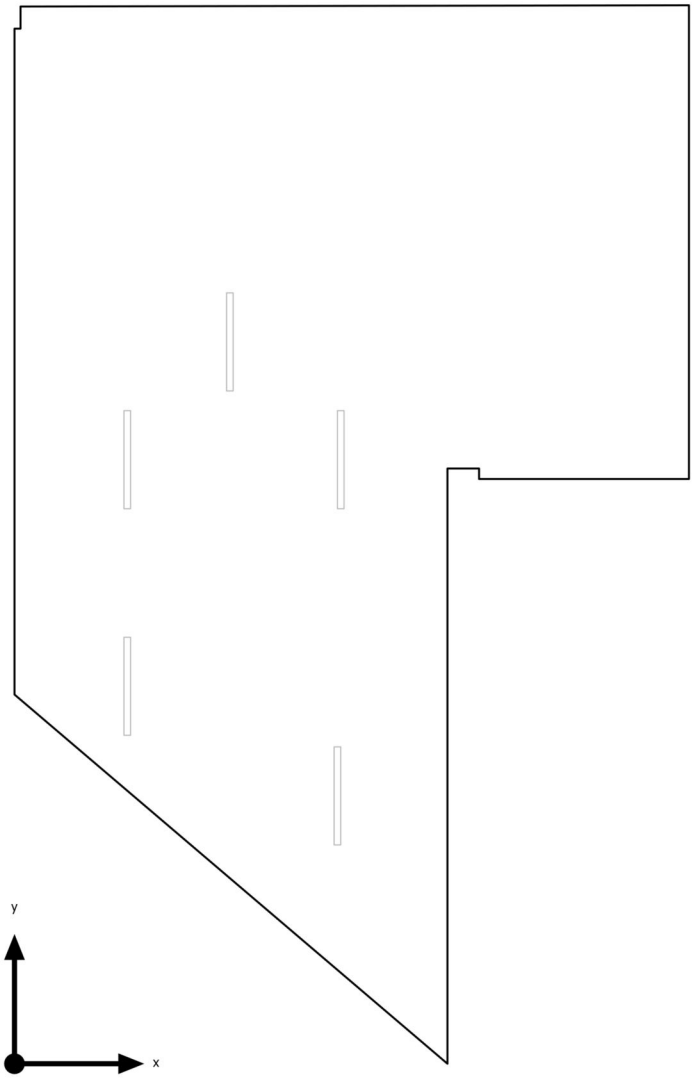


Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
CIrculacion P.-1 Perpendicular illuminance Height: 0.200 m	109 lx	53.0 lx	143 lx	0.49	0.37	CG3

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

Building 1 · Storey 1 · Cuarto de Maquinas (Emergency light scene)

Summary



Ground area	75.78 m²
Reflection factors	Ceiling: 70.0 %, Walls: 56.1 %, Floor: 22.3 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m

Building 1 · Storey 1 · Cuarto de Maquinas (Emergency light scene)

Summary

Results

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

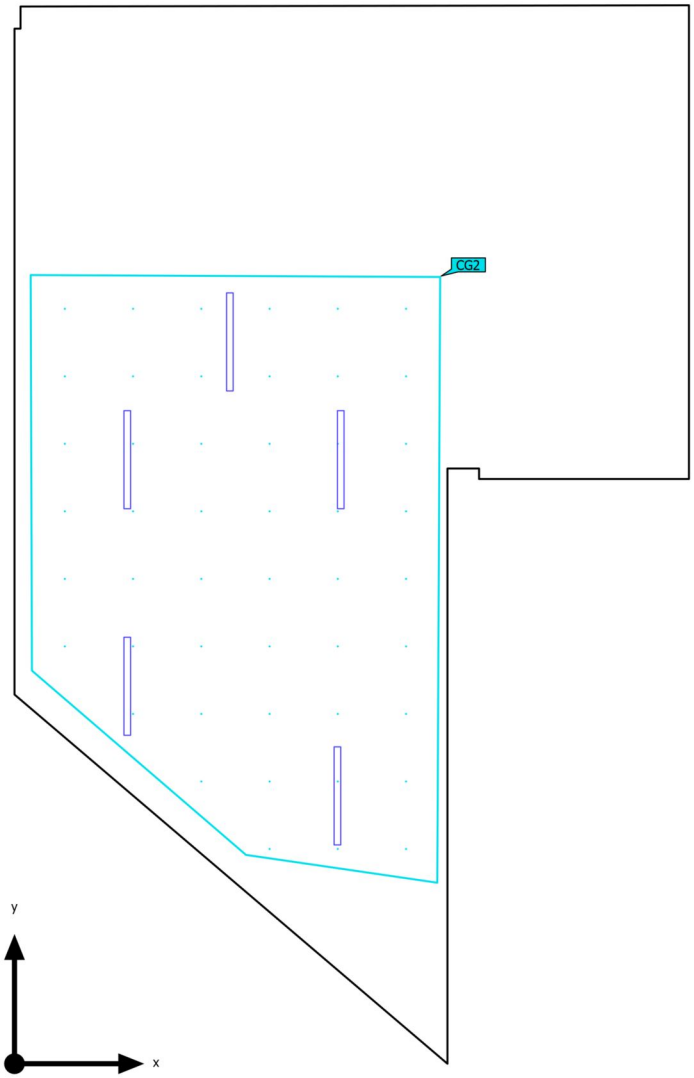
(2) Calculated using DIN:18599-4.

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

DIALux

Building 1 · Storey 1 · Cuarto de Maquinas (Light scene 1)

Summary



Ground area	75.78 m²
Reflection factors	Ceiling: 70.0 %, Walls: 56.1 %, Floor: 22.3 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	3.000 m

Building 1 · Storey 1 · Cuarto de Maquinas (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Energy estimation(2)	Consumption	454 kWh/a	max. 2700 kWh/a	✓	
Room	Lighting power density	2.42 W/m²	–		

(1) Based on a rectangular space of 8.372 m x 13.138 m and SHR of 0.25.
(2) Calculated using DIN:18599-4.

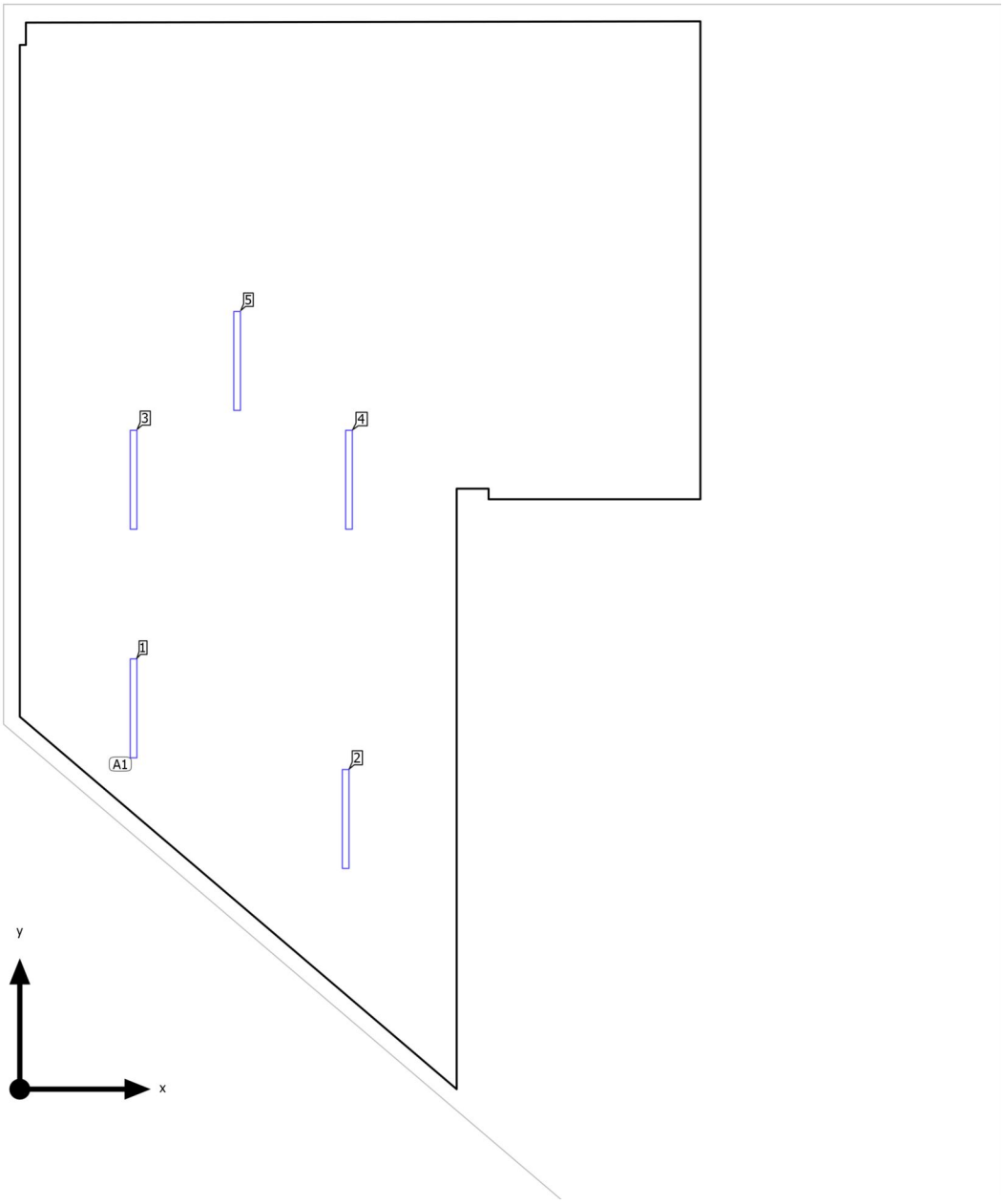
Utilisation profile: DIALux presetting (5.26.2 Standard (office))

Luminaire list

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

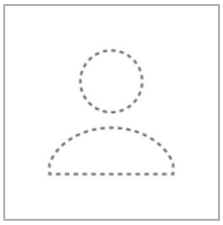
Building 1 · Storey 1 · Cuarto de Maquinas

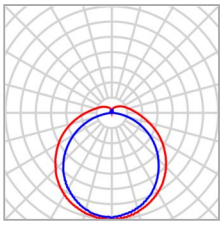
Luminaire layout plan



Building 1 · Storey 1 · Cuarto de Maquinas

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

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

Type	Field Arrangement
1st luminaire (X/Y/Z)	1.400 m / 4.685 m / 3.000 m
X-direction	2 pcs., Centre - centre, Distances not equal
Y-direction	2 pcs., Centre - centre, Distances not equal
Arrangement	A1

X	Y	Mounting height	Luminaire
1.400 m	4.685 m	3.000 m	1
4.008 m	3.325 m	3.000 m	2
1.400 m	7.498 m	3.000 m	3
4.049 m	7.498 m	3.000 m	4

Individual luminaires

X	Y	Mounting height	Luminaire
2.673 m	8.960 m	3.000 m	5

Building 1 · Storey 1 · Cuarto de Maquinas

Luminaire list

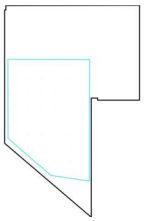
Φ_{total}	P_{total}	Luminous efficacy
17185 lm	183.5 W	93.7 lm/W

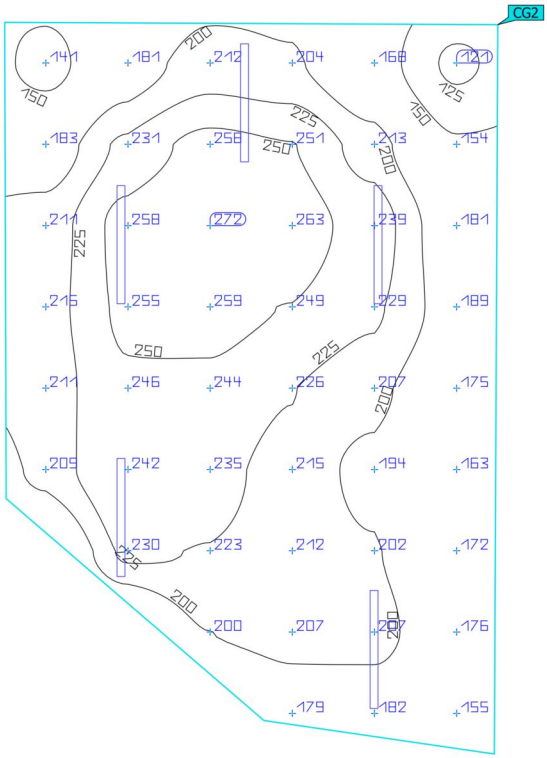
pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
5	Not yet a DIALux member	HERMÉTICA LRL10036 BL	HERMÉTICA LRL10036BL-36W	36.7 W	3437 lm	93.6 lm/W

DIALux

Building 1 · Storey 1 · Cuarto de Maquinas (Light scene 1)

Cuarto de maquinas





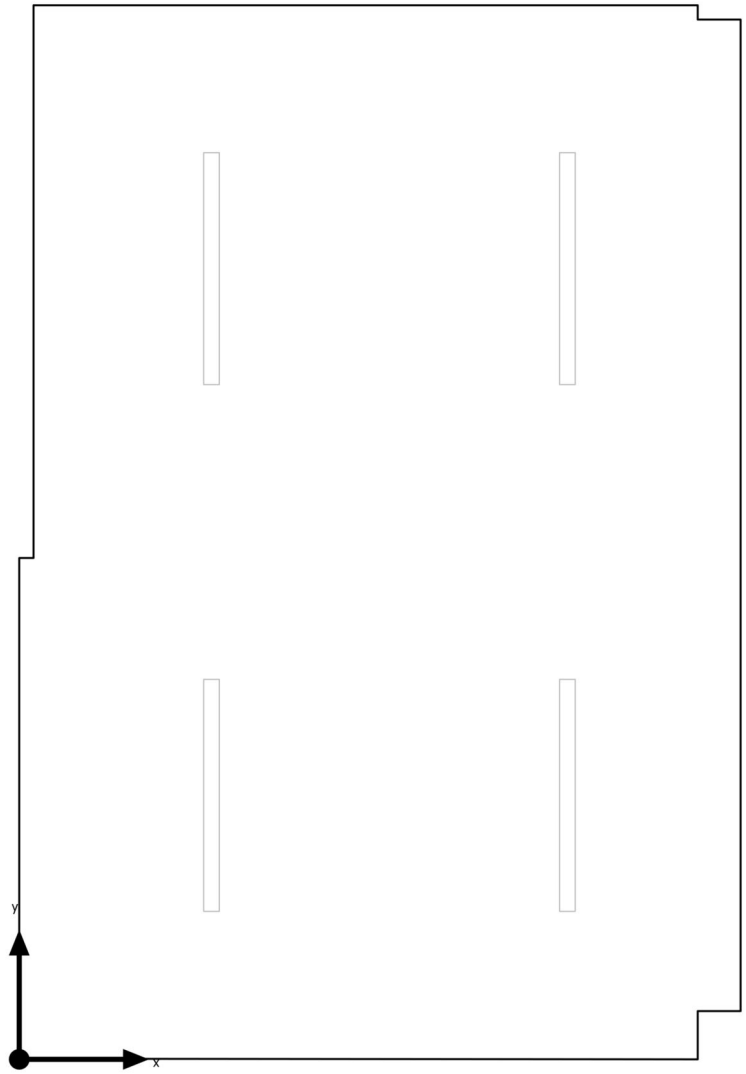
Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Cuarto de maquinas Perpendicular illuminance Height: 0.300 m	209 lx	121 lx	272 lx	0.58	0.44	CG2

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

DIALux

Building 1 · Storey 1 · Cuarto Tecnico (Emergency light scene)

Summary



Ground area	20.64 m²
Reflection factors	Ceiling: 70.0 %, Walls: 56.1 %, Floor: 22.3 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m

Building 1 · Storey 1 · Cuarto Tecnico (Emergency light scene)

Summary

Results

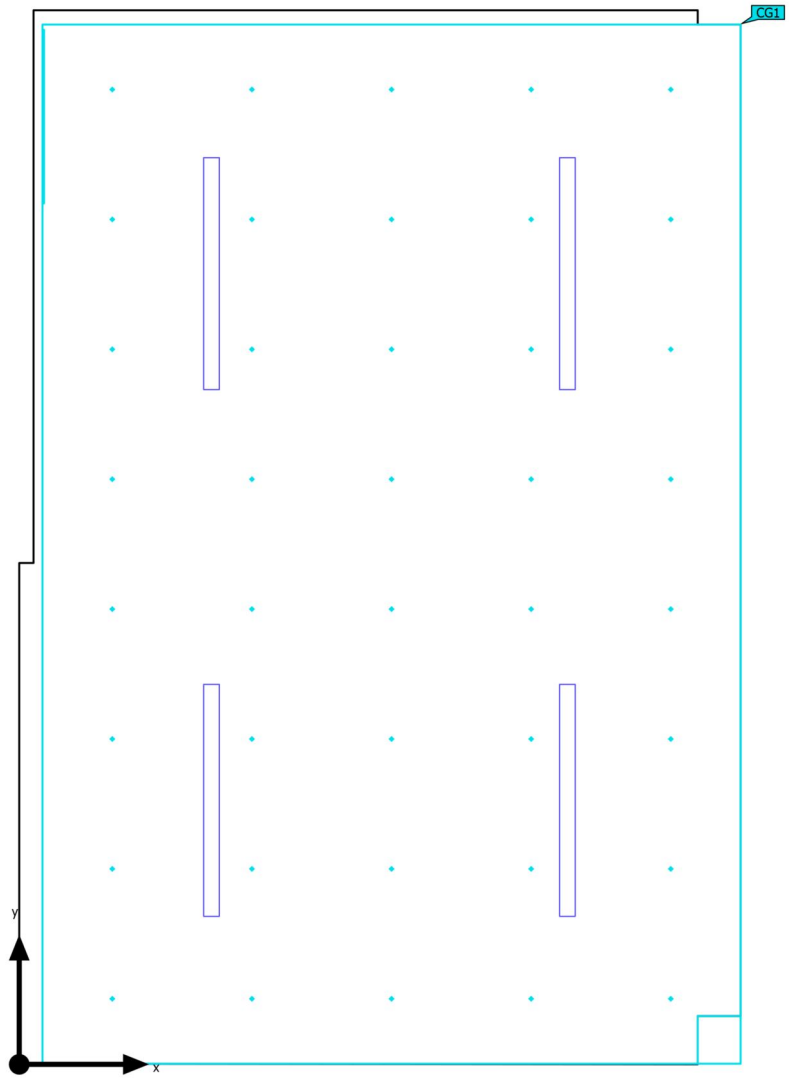
	Symbol	Calculated	Target	Check	Index
Room	Lighting power density	0.00 W/m²	–		

(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.

Building 1 · Storey 1 · Cuarto Tecnico (Light scene 1)

Summary



Ground area	20.64 m²
Reflection factors	Ceiling: 70.0 %, Walls: 56.1 %, Floor: 22.3 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	3.000 m

DIALux

Building 1 · Storey 1 · Cuarto Tecnico (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Energy estimation(2)	Consumption	363 kWh/a	max. 750 kWh/a	✓	
Room	Lighting power density	7.11 W/m²	–		

(1) Based on a rectangular space of 5.531 m x 3.785 m and SHR of 0.25.
(2) Calculated using DIN:18599-4.

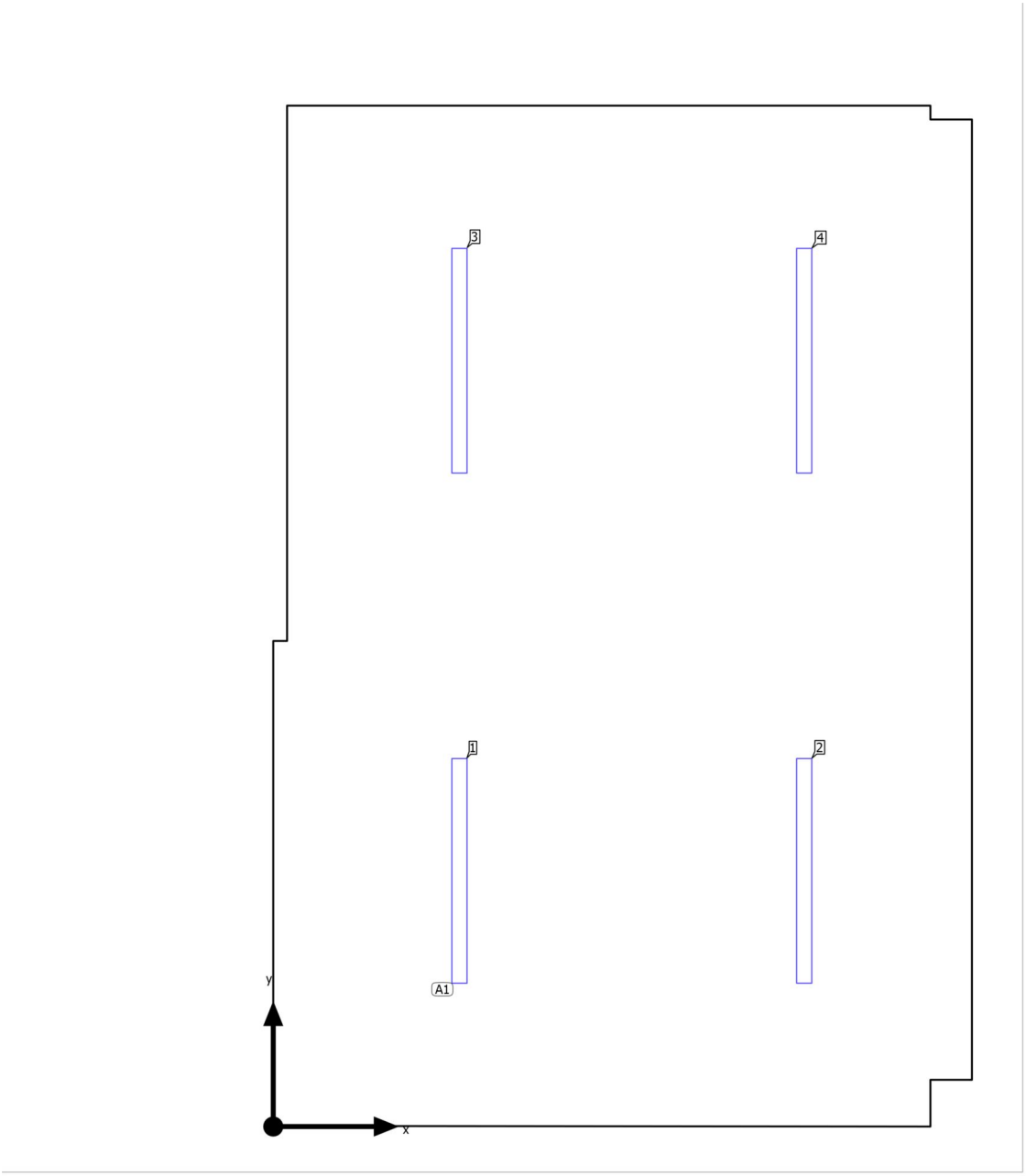
Utilisation profile: DIALux presetting (5.26.2 Standard (office))

Luminaire list

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

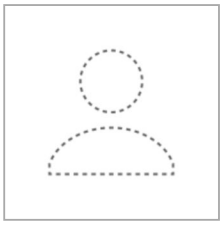
Building 1 · Storey 1 · Cuarto Tecnico

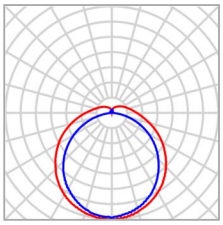
Luminaire layout plan



Building 1 · Storey 1 · Cuarto Tecnico

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

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

Type	Field Arrangement
1st luminaire (X/Y/Z)	1.009 m / 1.385 m / 3.000 m
X-direction	2 pcs., Centre - centre, 1.868 m
Y-direction	2 pcs., Centre - centre, 2.764 m
Arrangement	A1

X	Y	Mounting height	Luminaire
1.009 m	1.385 m	3.000 m	1
2.876 m	1.385 m	3.000 m	2
1.009 m	4.149 m	3.000 m	3
2.876 m	4.149 m	3.000 m	4

Building 1 · Storey 1 · Cuarto Tecnico

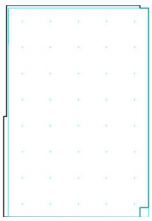
Luminaire list

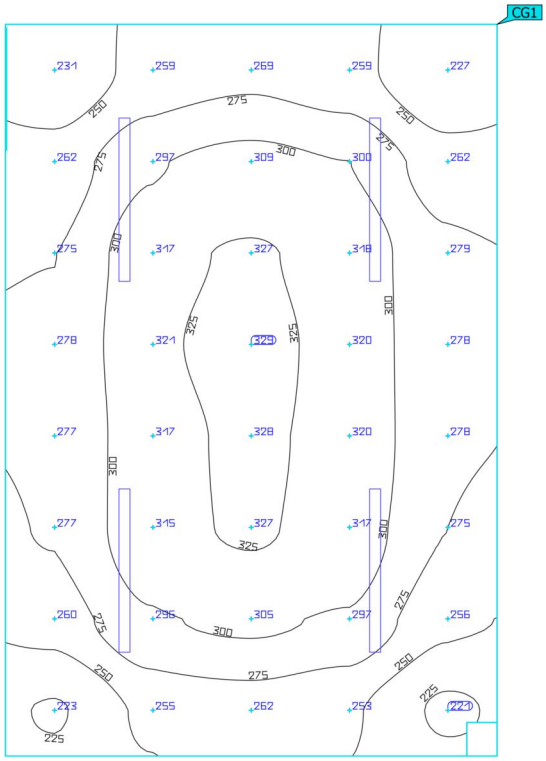
Φ_{total}	P_{total}	Luminous efficacy
13748 lm	146.8 W	93.7 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Not yet a DIALux member	HERMÉTICA LRL10036BL	HERMÉTICA LRL10036BL-36W	36.7 W	3437 lm	93.6 lm/W

Building 1 · Storey 1 · Cuarto Tecnico (Light scene 1)

Cuarto Tecnico



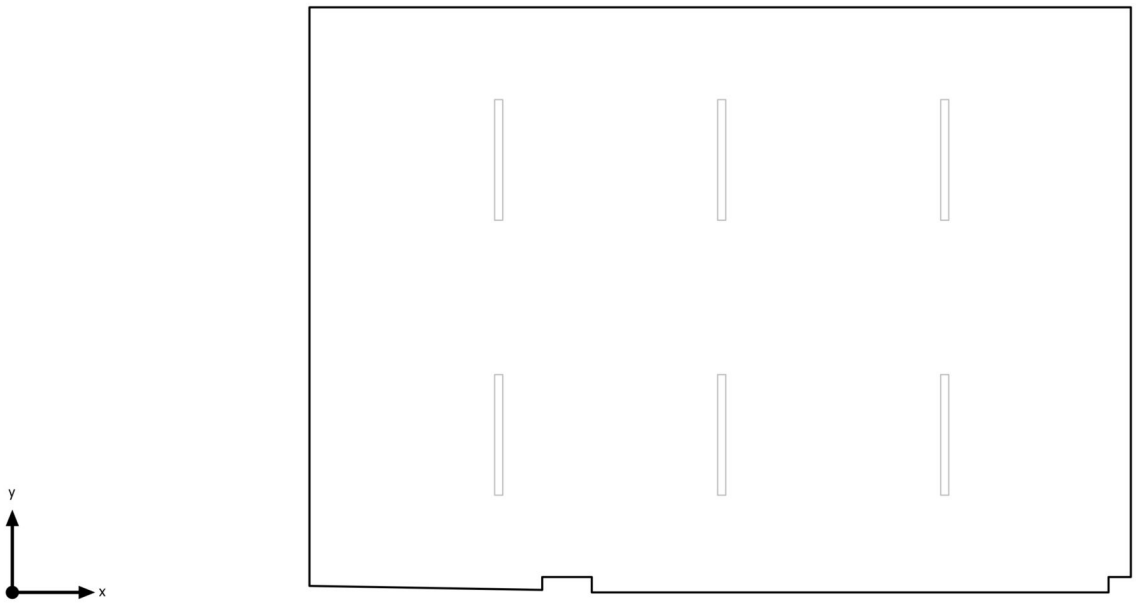


Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Cuarto Tecnico Perpendicular illuminance Height: 0.300 m	284 lx	221 lx	329 lx	0.78	0.67	CG1

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

Building 1 · Storey 1 · Oficina Piso -1 (Emergency light scene)

Summary



Ground area	48.71 m²
Reflection factors	Ceiling: 70.0 %, Walls: 56.1 %, Floor: 22.3 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m

Building 1 · Storey 1 · Oficina Piso -1 (Emergency light scene)

Summary

Results

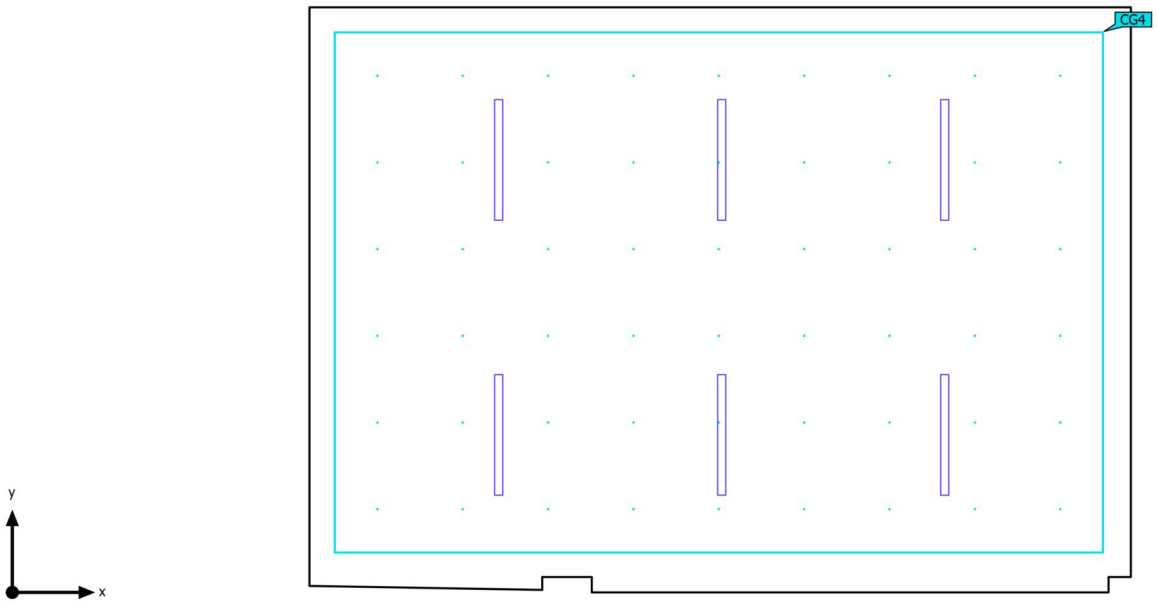
	Symbol	Calculated	Target	Check	Index
Room	Lighting power density	0.00 W/m²	–		

(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.

Building 1 · Storey 1 · Oficina Piso -1 (Light scene 1)

Summary



Ground area	48.71 m²
Reflection factors	Ceiling: 70.0 %, Walls: 56.1 %, Floor: 22.3 %
Maintenance factor	0.80 (fixed)

Clearance height	3.000 m
Mounting height	2.800 m

Building 1 · Storey 1 · Oficina Piso -1 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Energy estimation(2)	Consumption	29.7 kWh/a	max. 1750 kWh/a	✓	
Room	Lighting power density	4.52 W/m²	–		

(1) Based on a rectangular space of 8.287 m x 5.905 m and SHR of 0.25.
(2) Calculated using DIN:18599-4.

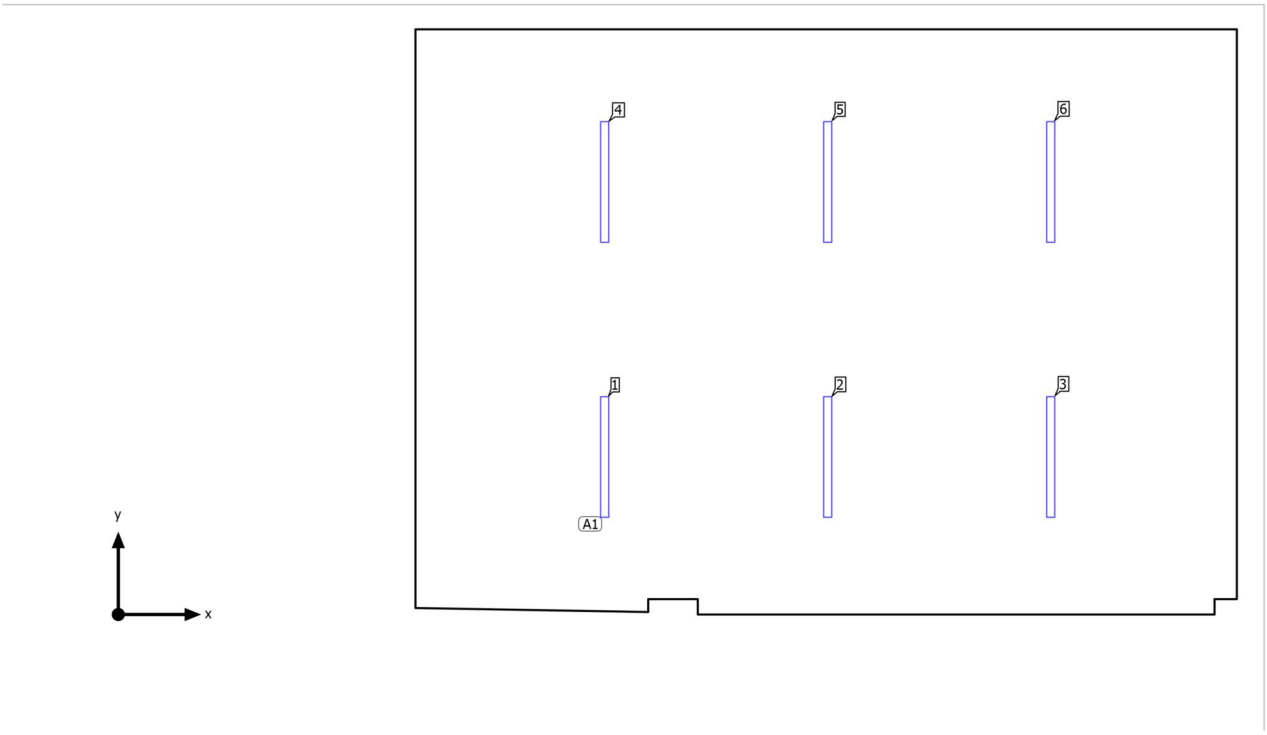
Utilisation profile: Offices (5.26.1 Filing, copying, etc.)

Luminaire list

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

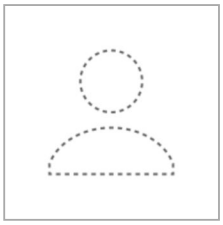
Building 1 · Storey 1 · Oficina Piso -1

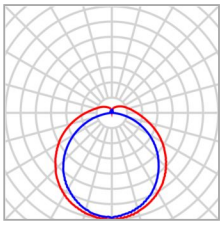
Luminaire layout plan



Building 1 · Storey 1 · Oficina Piso -1

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

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

Type	Field Arrangement
1st luminaire (X/Y/Z)	4.907 m / 1.590 m / 2.800 m
X-direction	3 pcs., Centre - centre, Distances not equal
Y-direction	2 pcs., Centre - centre, Distances not equal
Arrangement	A1

X	Y	Mounting height	Luminaire
4.907 m	1.590 m	2.800 m	1
7.157 m	1.590 m	2.800 m	2
9.407 m	1.590 m	2.800 m	3
4.907 m	4.365 m	2.800 m	4
7.157 m	4.365 m	2.800 m	5
9.407 m	4.365 m	2.800 m	6

Building 1 · Storey 1 · Oficina Piso -1

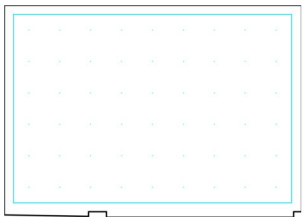
Luminaire list

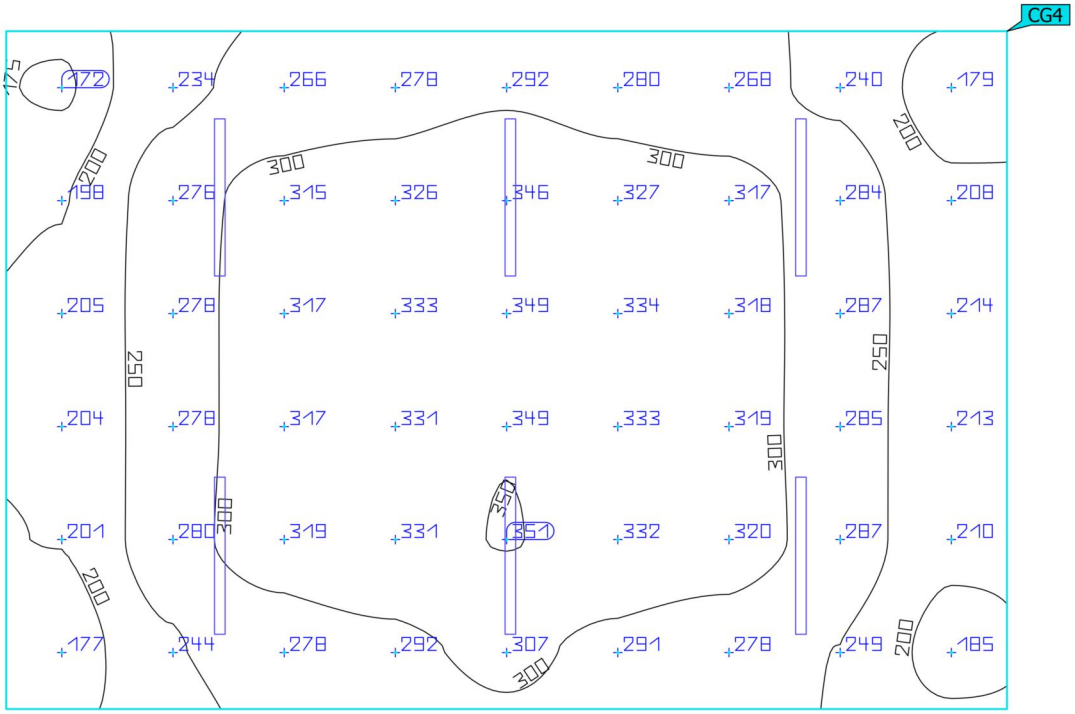
Φ_{total}	P_{total}	Luminous efficacy
20622 lm	220.2 W	93.7 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	Not yet a DIALux member	HERMÉTICA LRL10036BL	HERMÉTICA LRL10036BL-36W	36.7 W	3437 lm	93.6 lm/W

Building 1 · Storey 1 · Oficina Piso -1 (Light scene 1)

Oficina Piso -1





Properties	Ē	E_{min}	E_{max}	U_o (g_1)	g_2	Index
Oficina Piso -1 Perpendicular illuminance Height: 0.500 m	278 lx	172 lx	351 lx	0.62	0.49	CG4

Utilisation profile: Offices (5.26.1 Filing, copying, etc.)