



MR. MARCAIDA'S PROPOSED 10-STOREY MID-RISE BUILDING

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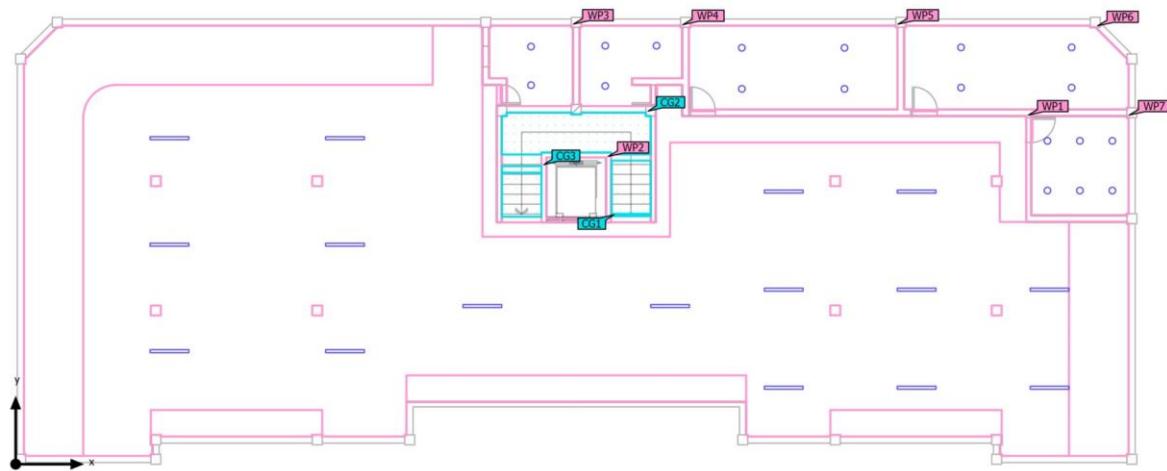
Luminaire list

Φ_{total} 647156 lm	P_{total} 6921.8 W	Luminous efficacy 93.5 lm/W	$\Phi_{\text{Emergency lighting}}$ 40040 lm	$P_{\text{Emergency lighting}}$ 448.0 W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
14	Artemide S.p.A.	1366W10A	MERCURY LED C 2700K	58.0 W	2893 lm	49.9 lm/W
4	Aura Light	465304	Alistair CE 15W 1400 On/Off 840	15.0 W	1421 lm	94.7 lm/W
256	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W
10	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W  16.0 W	2139 lm 1604 lm (75 %)	100.4 lm/W -
4	Regent	2003.9212 - CHAN INS1170 HPE LED2000- 830 WH DALI E3h	System batten luminaire Channel HPE (High Performance Effic	24.0 W	2000 lm	83.3 lm/W
12	Regent	2003.9212 - CHAN INS1170 HPE LED2000- 830 WH DALI E3h	System batten luminaire Channel HPE (High Performance Effic	24.0 W  24.0 W	2000 lm 2000 lm (100 %)	83.3 lm/W -

Building 1 · Basement (Light scene 1)

Calculation objects



Building 1 · Basement (Light scene 1)

Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{\min}	E_{\max}	g_1	g_2	Index
Working plane (Parking Space) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	92.1 lx (≥ 75.0 lx)	0.075 lx	168 lx	0.001	0.000	WP1
	✓					
Working plane (Elevator) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	16.4 lx (≥ 100 lx)	10.1 lx	18.5 lx	0.62	0.55	WP2
	✗					
Working plane (Sanitary Room) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	237 lx (≥ 200 lx)	0.11 lx	496 lx	0.000	0.000	WP3
	✓					
Working plane (Electrical Room) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	316 lx (≥ 200 lx)	13.1 lx	558 lx	0.041	0.023	WP4
	✓					
Working plane (Generator Room) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	101 lx (≥ 80.0 lx)	0.076 lx	325 lx	0.001	0.000	WP5
	✓					
Working plane (Water pump Station) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	249 lx (≥ 200 lx)	1.51 lx	477 lx	0.006	0.003	WP6
	✓					
Working plane (Auxillary Room) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	618 lx (≥ 500 lx)	13.3 lx	1006 lx	0.022	0.013	WP7
	✓					

Calculation surfaces

Properties	\bar{E}	E_{\min}	E_{\max}	g_1	g_2	Index
Calculation surface 9 Perpendicular illuminance Height: 0.937 m	35.0 lx	27.1 lx	46.8 lx	0.77	0.58	CG1
Calculation surface 10 Perpendicular illuminance Height: 1.638 m	75.5 lx	60.3 lx	87.0 lx	0.80	0.69	CG2

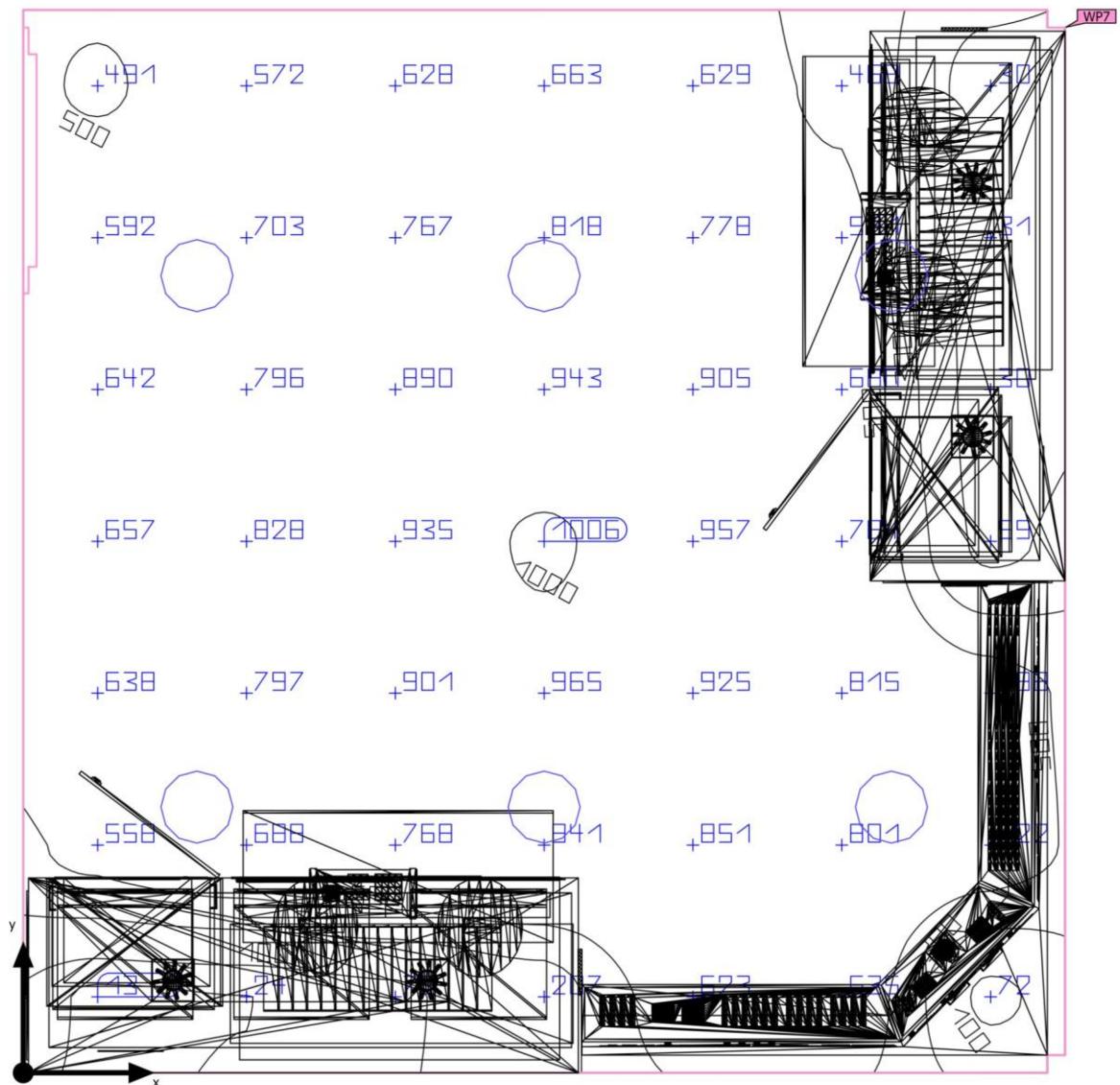
Building 1 · Basement (Light scene 1)

Calculation objects

Calculation surface 12
Perpendicular illuminance
Height: 2.393 m

70.4 lx 60.8 lx 107 lx 0.86 0.57 CG3

Building 1 · Basement · Auxillary Room (Light scene 1)

Summary

Building 1 · Basement · Auxillary Room (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	618 lx	$\geq 500 \text{ lx}$	✓	WP7
	g_1	0.022	-	-	
Consumption values	Consumption	290 kWh/a	max. 350 kWh/a	✓	
Room	Lighting power density	14.50 W/m ²	-	-	
		2.35 W/m ² /100 lx	-	-	

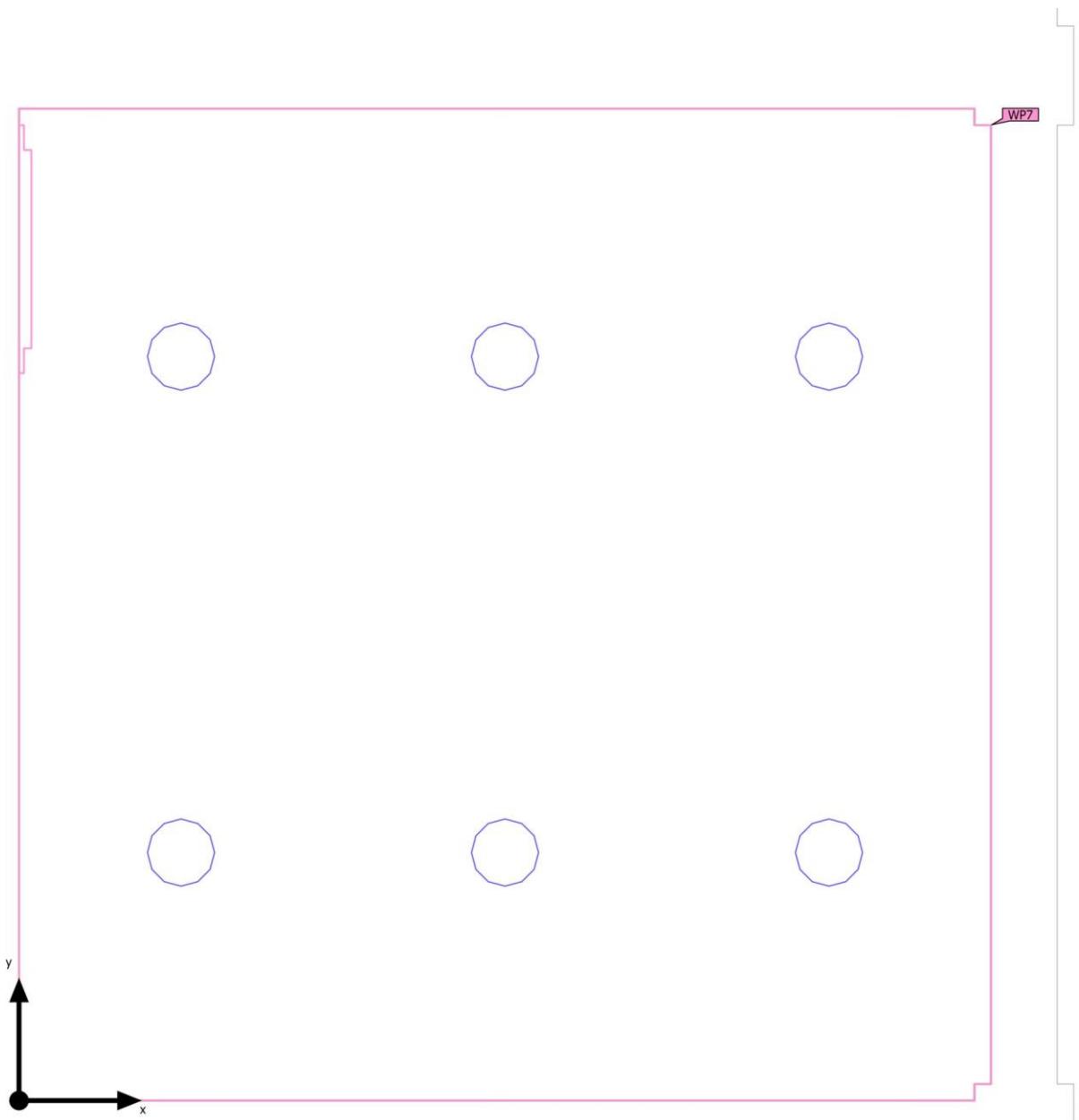
Utilization profile: Industrial activities and crafts - Power stations, Control rooms

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Basement · Auxillary Room (Light scene 1)

Calculation objects



Building 1 · Basement · Auxillary Room (Light scene 1)

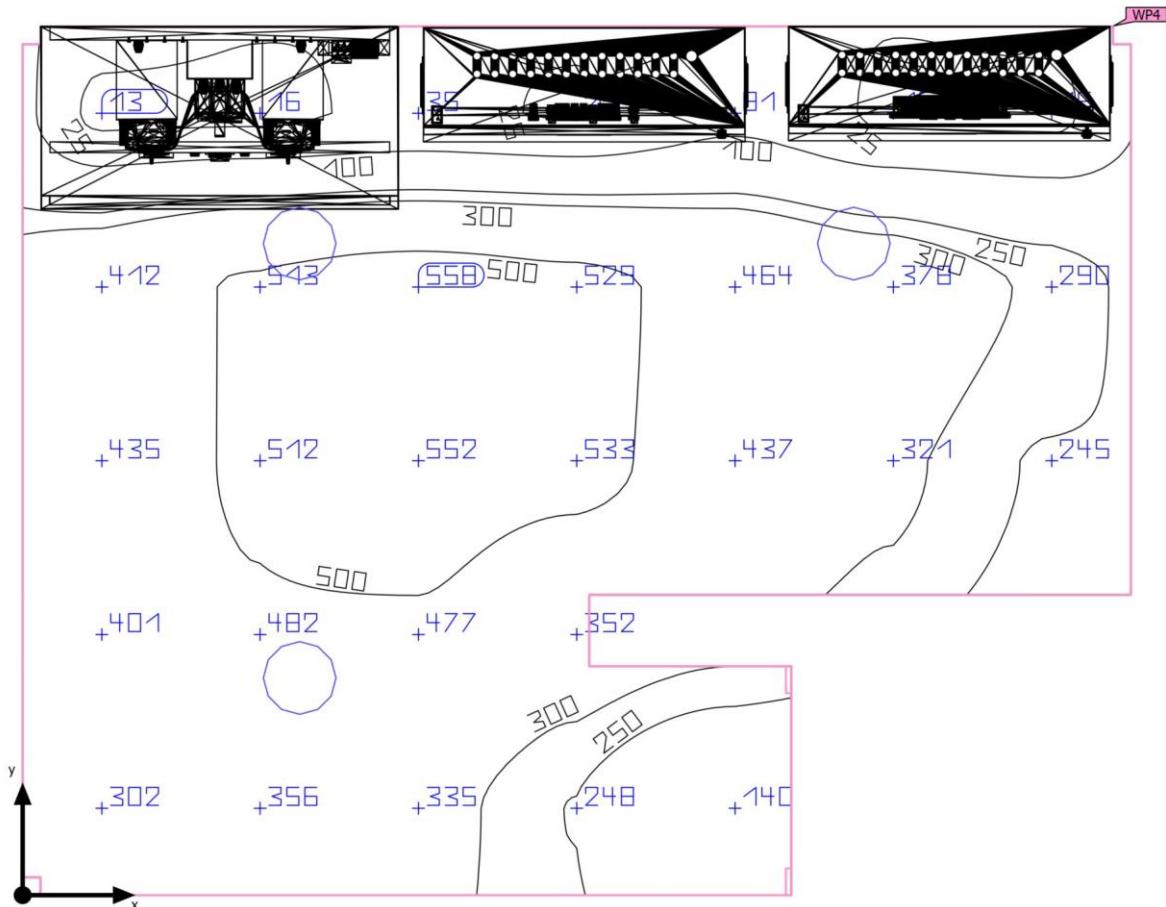
Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Auxillary Room) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	618 lx (≥ 500 lx)	13.3 lx	1006 lx	0.022	0.013	WP7

Utilization profile: Industrial activities and crafts - Power stations, Control rooms

Building 1 · Basement · Electrical Room (Light scene 1)

Summary

Building 1 · Basement · Electrical Room (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$E_{\text{perpendicular}}$	316 lx	$\geq 200 \text{ lx}$	✓	WP4
	g_1	0.041	-	-	
Consumption values	Consumption	140 kWh/a	max. 250 kWh/a	✓	
Room	Lighting power density	9.66 W/m ²	-	-	
		3.06 W/m ² /100 lx	-	-	

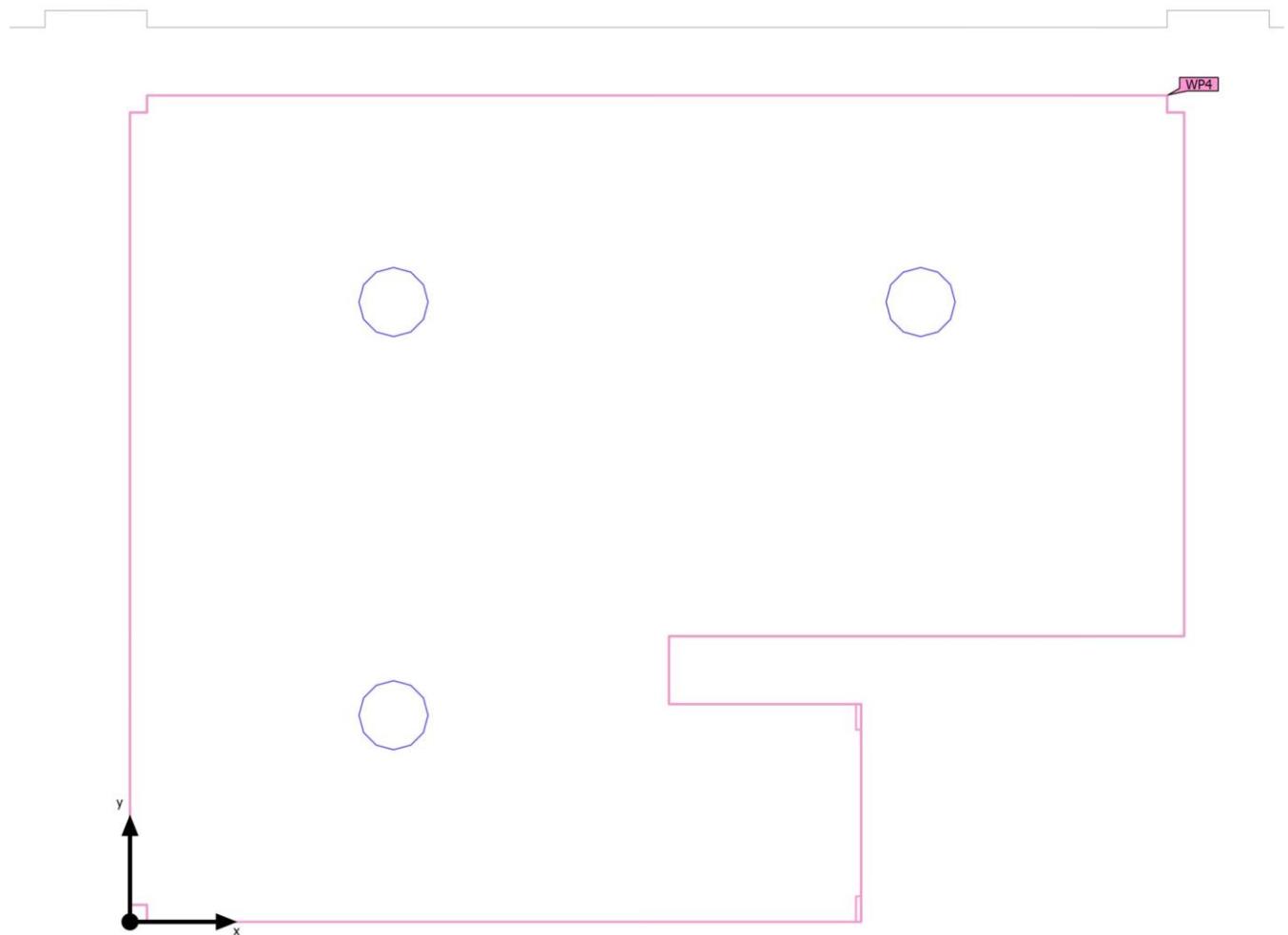
Utilization profile: Industrial activities and crafts - Power stations, Side rooms, e.g. pump rooms, condenser rooms, switchboards

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Basement · Electrical Room (Light scene 1)

Calculation objects



Building 1 · Basement · Electrical Room (Light scene 1)

Calculation objects

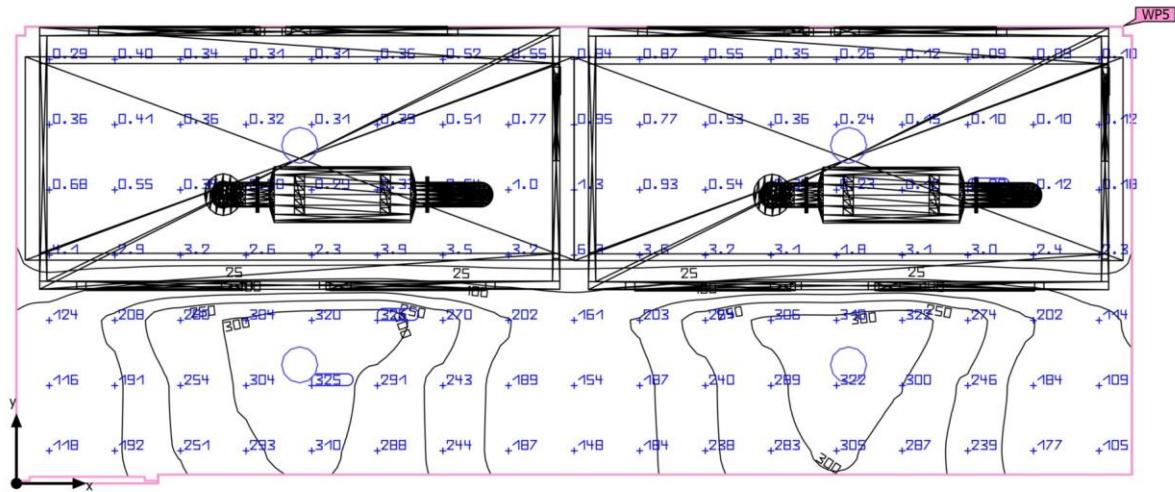
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1	g_2	Index
Working plane (Electrical Room) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	316 lx (≥ 200 lx) ✓	13.1 lx	558 lx	0.041	0.023	WP4

Utilization profile: Industrial activities and crafts - Power stations, Side rooms, e.g. pump rooms, condenser rooms, switchboards

Building 1 · Basement · Generator Room (Light scene 1)

Summary



Building 1 · Basement · Generator Room (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	101 lx	$\geq 80.0 \text{ lx}$	✓	WP5
	g_1	0.001	-	-	
Consumption values	Consumption	190 kWh/a	max. 600 kWh/a	✓	
Room	Lighting power density	5.33 W/m ²	-	-	
		5.27 W/m ² /100 lx	-	-	

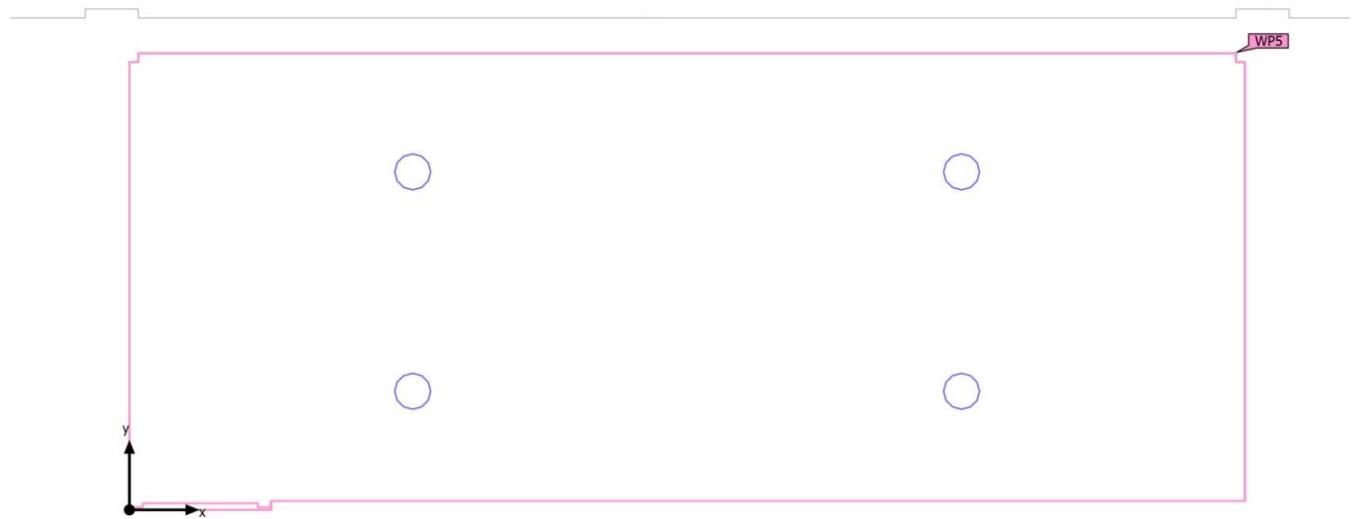
Utilization profile: Industrial activities and crafts - Power stations, Side rooms, e.g. pump rooms, condenser rooms, switchboards

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Basement · Generator Room (Light scene 1)

Calculation objects



Building 1 · Basement · Generator Room (Light scene 1)

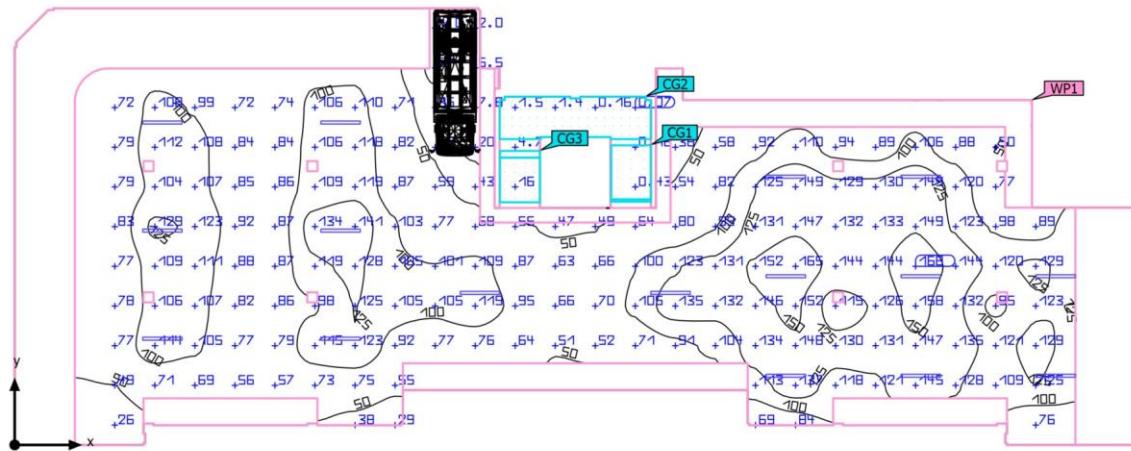
Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Generator Room) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	101 lx (≥ 80.0 lx)	0.076 lx	325 lx	0.001	0.000	WP5

Utilization profile: Industrial activities and crafts - Power stations, Side rooms, e.g. pump rooms, condenser rooms, switchboards

Building 1 · Basement · Parking Space (Light scene 1)

Summary

Building 1 · Basement · Parking Space (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	92.1 lx	$\geq 75.0 \text{ lx}$		WP1
	g_1	0.001	-	-	WP1
Consumption values	Consumption	840 kWh/a	max. 11950 kWh/a		
Room	Lighting power density	1.13 W/m ²	-	-	
		1.23 W/m ² /100 lx	-	-	

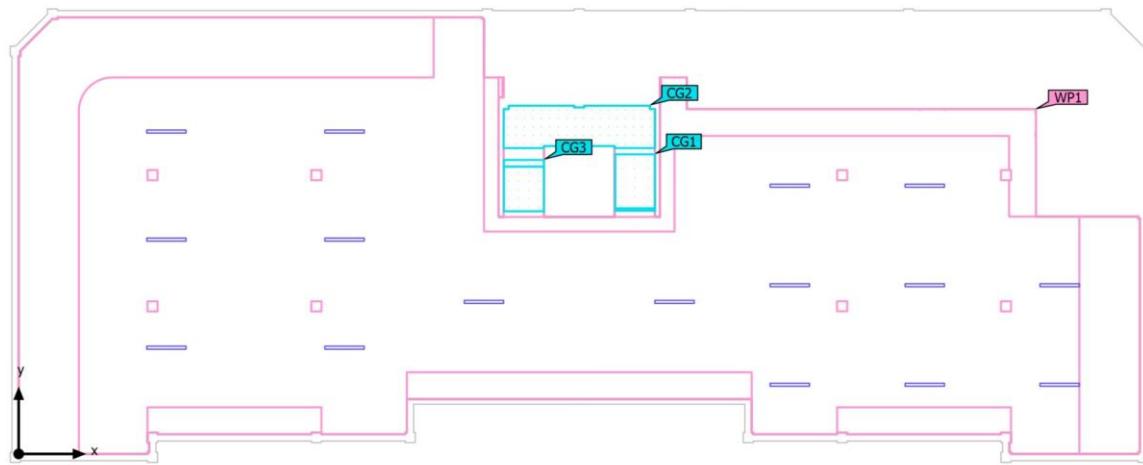
Utilization profile: Places of public assembly - Public car parks (indoor), In/out ramps (at night)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Regent	2003.9212	System batten luminaire Channel HPE (High Performance Effic	24.0 W	2000 lm	83.3 lm/W
		- CHAN INS1170 HPE LED2000- 830 WH DALI E3h				
12	Regent	2003.9212	System batten luminaire Channel HPE (High Performance Effic	24.0 W	2000 lm	83.3 lm/W
		- CHAN INS1170 HPE LED2000- 830 WH DALI E3h		24.0 W	2000 lm (100 %)	-

Building 1 · Basement · Parking Space (Light scene 1)

Calculation objects



Building 1 · Basement · Parking Space (Light scene 1)

Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{\min}	E_{\max}	g_1	g_2	Index
Working plane (Parking Space) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	92.1 lx ($\geq 75.0 \text{ lx}$)	0.075 lx	168 lx	0.001	0.000	WP1

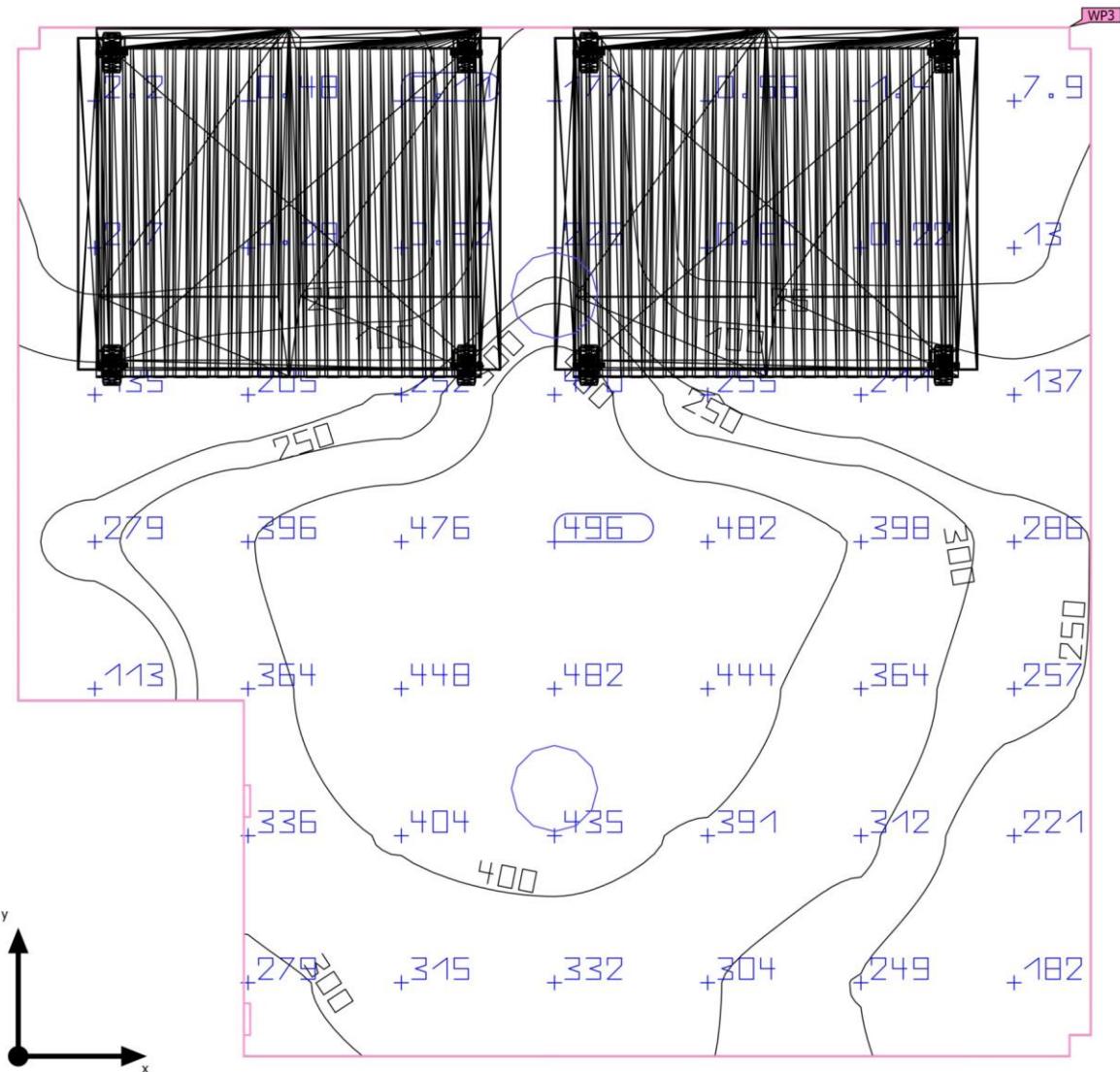


Calculation surfaces

Properties	\bar{E}	E_{\min}	E_{\max}	g_1	g_2	Index
Calculation surface 9 Perpendicular illuminance Height: 0.937 m	35.0 lx	27.1 lx	46.8 lx	0.77	0.58	CG1
Calculation surface 10 Perpendicular illuminance Height: 1.638 m	75.5 lx	60.3 lx	87.0 lx	0.80	0.69	CG2
Calculation surface 12 Perpendicular illuminance Height: 2.393 m	70.4 lx	60.8 lx	107 lx	0.86	0.57	CG3

Utilization profile: Places of public assembly - Public car parks (indoor), In/out ramps (at night)

Building 1 · Basement · Sanitary Room (Light scene 1)

Summary

Building 1 · Basement · Sanitary Room (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	237 lx	$\geq 200 \text{ lx}$	✓	WP3
	g_1	0.000	-	-	
Consumption values	Consumption	170 kWh/a	max. 250 kWh/a	✓	
Room	Lighting power density	7.48 W/m ²	-	-	
		3.15 W/m ² /100 lx	-	-	

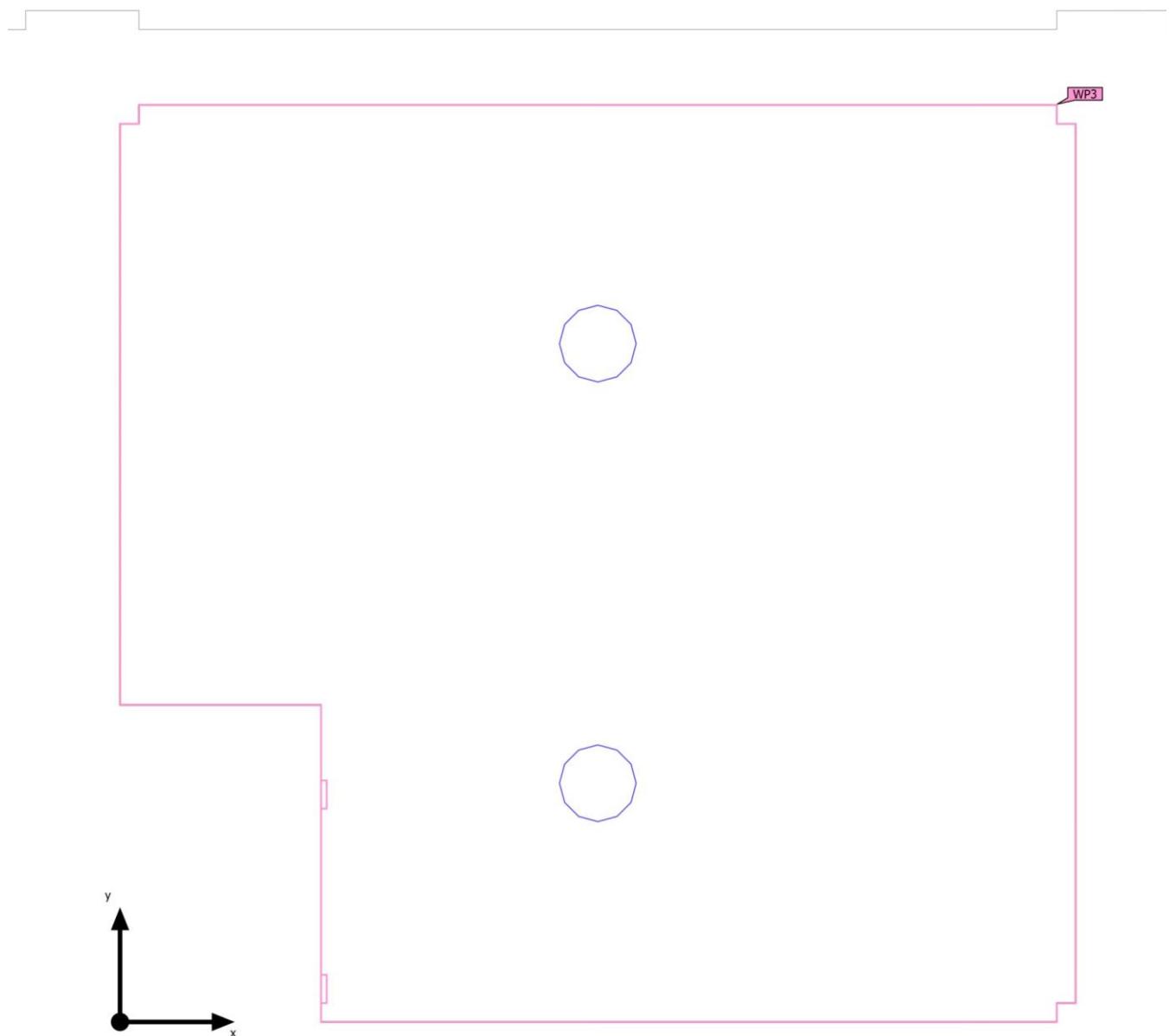
Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Canteens, pantries

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Basement · Sanitary Room (Light scene 1)

Calculation objects



Building 1 · Basement · Sanitary Room (Light scene 1)

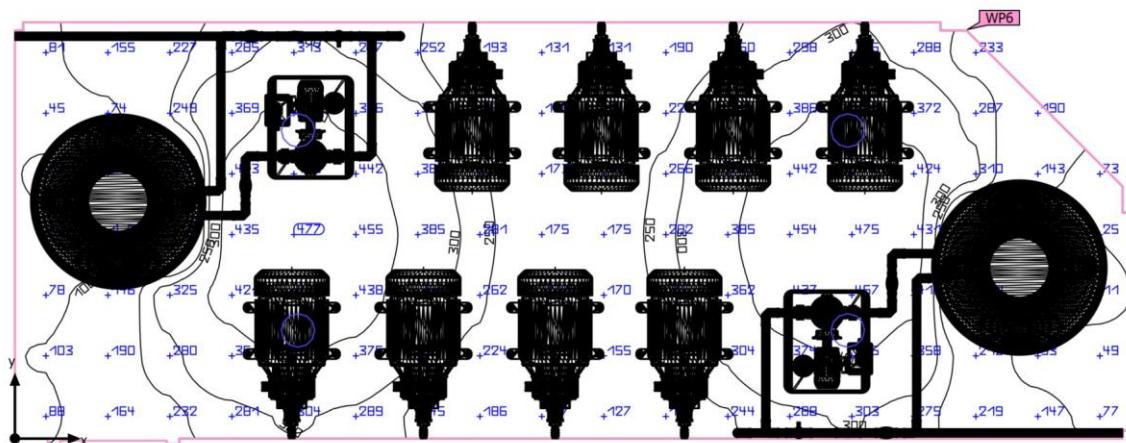
Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Sanitary Room) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	237 lx (≥ 200 lx) 	0.11 lx	496 lx	0.000	0.000	WP3

Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Canteens, pantries

Building 1 · Basement · Water pump Station (Light scene 1)

Summary

Building 1 · Basement · Water pump Station (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	249 lx	$\geq 200 \text{ lx}$	✓	WP6
	g_1	0.006	-	-	
Consumption values	Consumption	190 kWh/a	max. 600 kWh/a	✓	
Room	Lighting power density	5.13 W/m ²	-	-	
		2.06 W/m ² /100 lx	-	-	

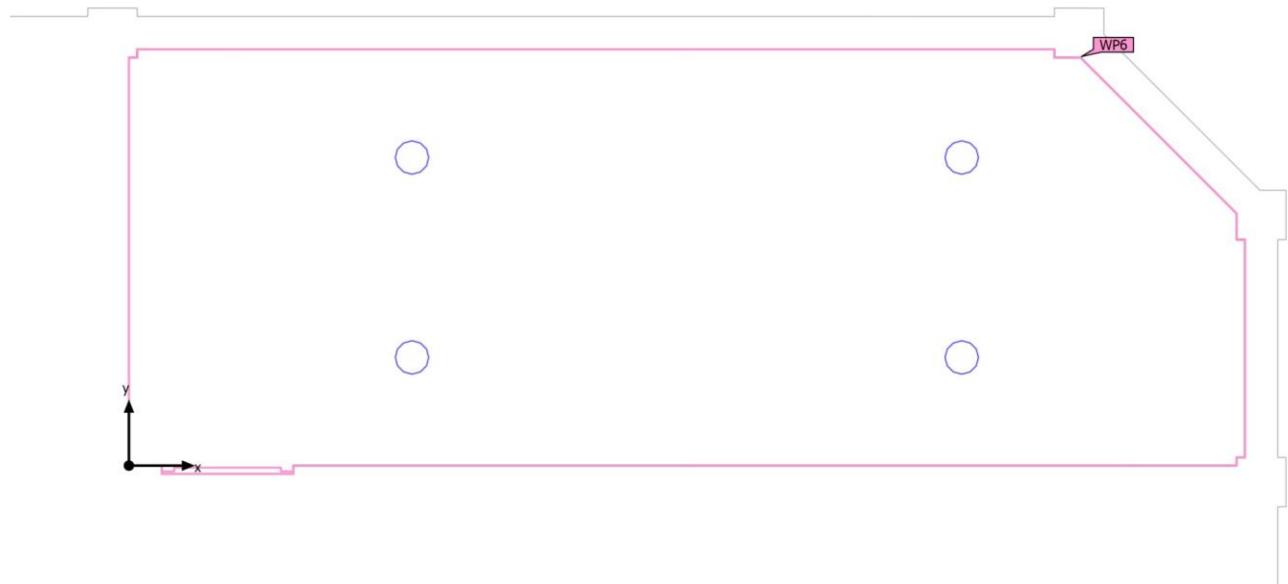
Utilization profile: Industrial activities and crafts - Power stations, Side rooms, e.g. pump rooms, condenser rooms, switchboards

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Basement · Water pump Station (Light scene 1)

Calculation objects



Building 1 · Basement · Water pump Station (Light scene 1)

Calculation objects

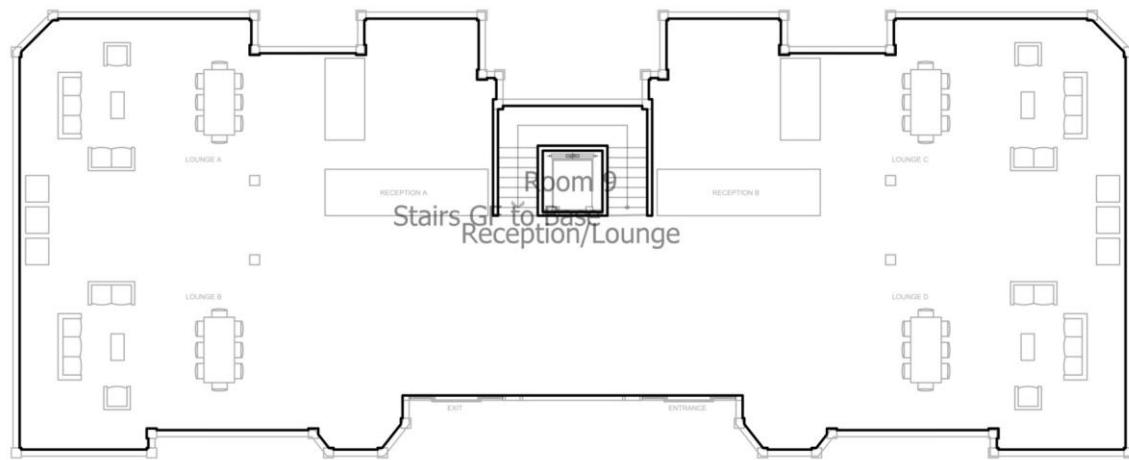
Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Water pump Station) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	249 lx (≥ 200 lx)	1.51 lx	477 lx	0.006	0.003	WP6

Utilization profile: Industrial activities and crafts - Power stations, Side rooms, e.g. pump rooms, condenser rooms, switchboards

Building 1 · Ground Floor (Light scene 1)

Room List



Building 1 · Ground Floor (Light scene 1)

Room List

Reception/Lounge

P_{total} 2764.4 W	A_{Room} 381.89 m ²	Lighting power density 7.24 W/m ² = 1.53 W/m ² /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 472 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
8	Artemide S.p.A.	1366W10A	MERCURY LED C 2700K	58.0 W	2893 lm
108	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Stairs GF to Base

P_{total} 30.0 W	A_{Room} 10.42 m ²	Lighting power density 2.88 W/m ² = 2.26 W/m ² /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 127 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
2	Aura Light	465304	Alistair CE 15W 1400 On/Off 840	15.0 W	1421 lm

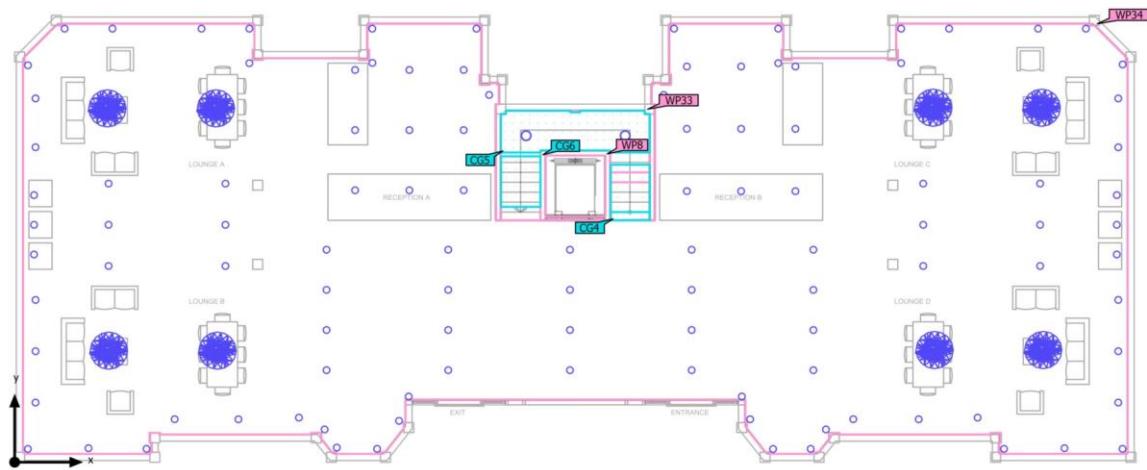
Building 1 · Ground Floor**Luminaire list**

Φ_{total}	P_{total}	Luminous efficacy
256996 lm	2794.4 W	92.0 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
8	Artemide S.p.A.	1366W10A	MERCURY LED C 2700K	58.0 W	2893 lm	49.9 lm/W
2	Aura Light	465304	Alistair CE 15W 1400 On/Off 840	15.0 W	1421 lm	94.7 lm/W
108	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Ground Floor (Light scene 1)

Calculation objects



Building 1 · Ground Floor (Light scene 1)

Calculation objects

Working planes

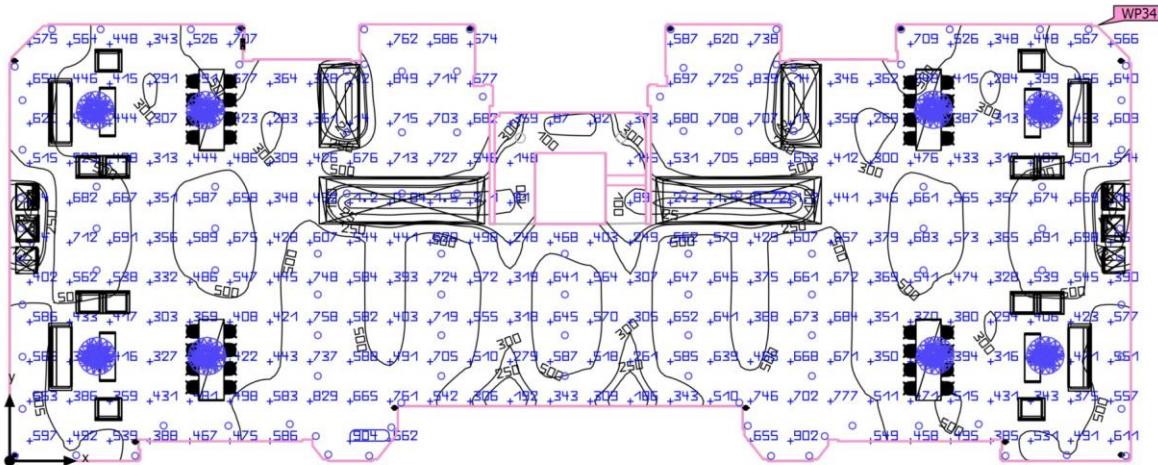
Properties	\bar{E} (Target)	E_{\min}	E_{\max}	g_1	g_2	Index
Working plane (Room 9) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	68.7 lx (≥ 500 lx)	48.2 lx	165 lx	0.70	0.29	WP8
Working plane (Stairs GF to Base) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	127 lx (≥ 100 lx)	11.8 lx	241 lx	0.093	0.049	WP33
Working plane (Reception/Lounge) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	472 lx (≥ 350 lx)	0.72 lx	904 lx	0.002	0.001	WP34

Calculation surfaces

Properties	\bar{E}	E_{\min}	E_{\max}	g_1	g_2	Index
Calculation surface 13 Perpendicular illuminance Height: 0.812 m	111 lx	57.5 lx	240 lx	0.52	0.24	CG4
Calculation surface 14 Perpendicular illuminance Height: 1.638 m	77.7 lx	61.6 lx	102 lx	0.79	0.60	CG5
Calculation surface 15 Perpendicular illuminance Height: 2.265 m	87.9 lx	74.4 lx	97.7 lx	0.85	0.76	CG6

Building 1 · Ground Floor · Reception/Lounge (Light scene 1)

Summary



Building 1 · Ground Floor · Reception/Lounge (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	472 lx	$\geq 350 \text{ lx}$	✓	WP34
	g_1	0.002	-	-	WP34
Consumption values	Consumption	[2100 - 3050] kWh/a	max. 13750 kWh/a	✓	
Room	Lighting power density	7.24 W/m ²	-	-	
		1.53 W/m ² /100 lx	-	-	

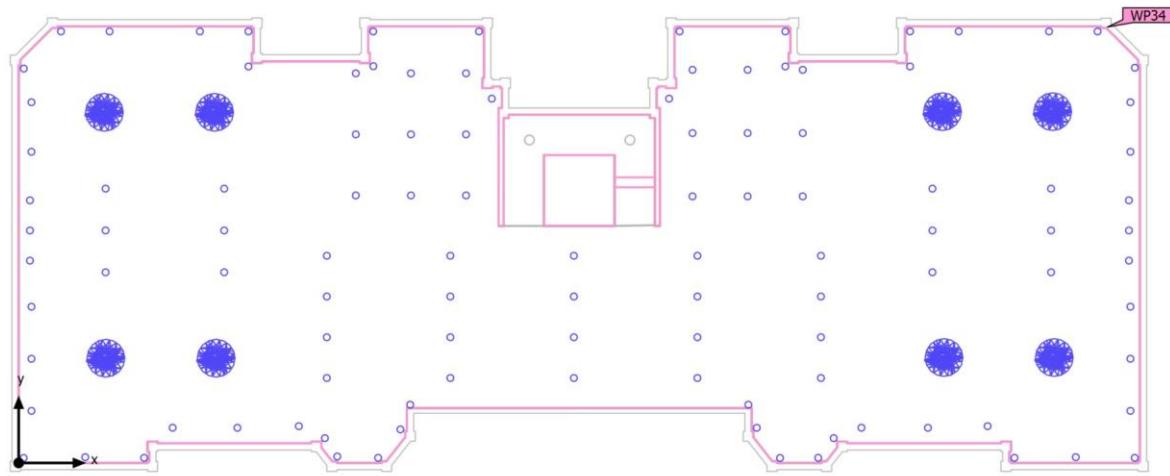
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
8	Artemide S.p.A.	1366W10A	MERCURY LED C 2700K	58.0 W	2893 lm	49.9 lm/W
108	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Ground Floor · Reception/Lounge (Light scene 1)

Calculation objects



Building 1 · Ground Floor · Reception/Lounge (Light scene 1)

Calculation objects

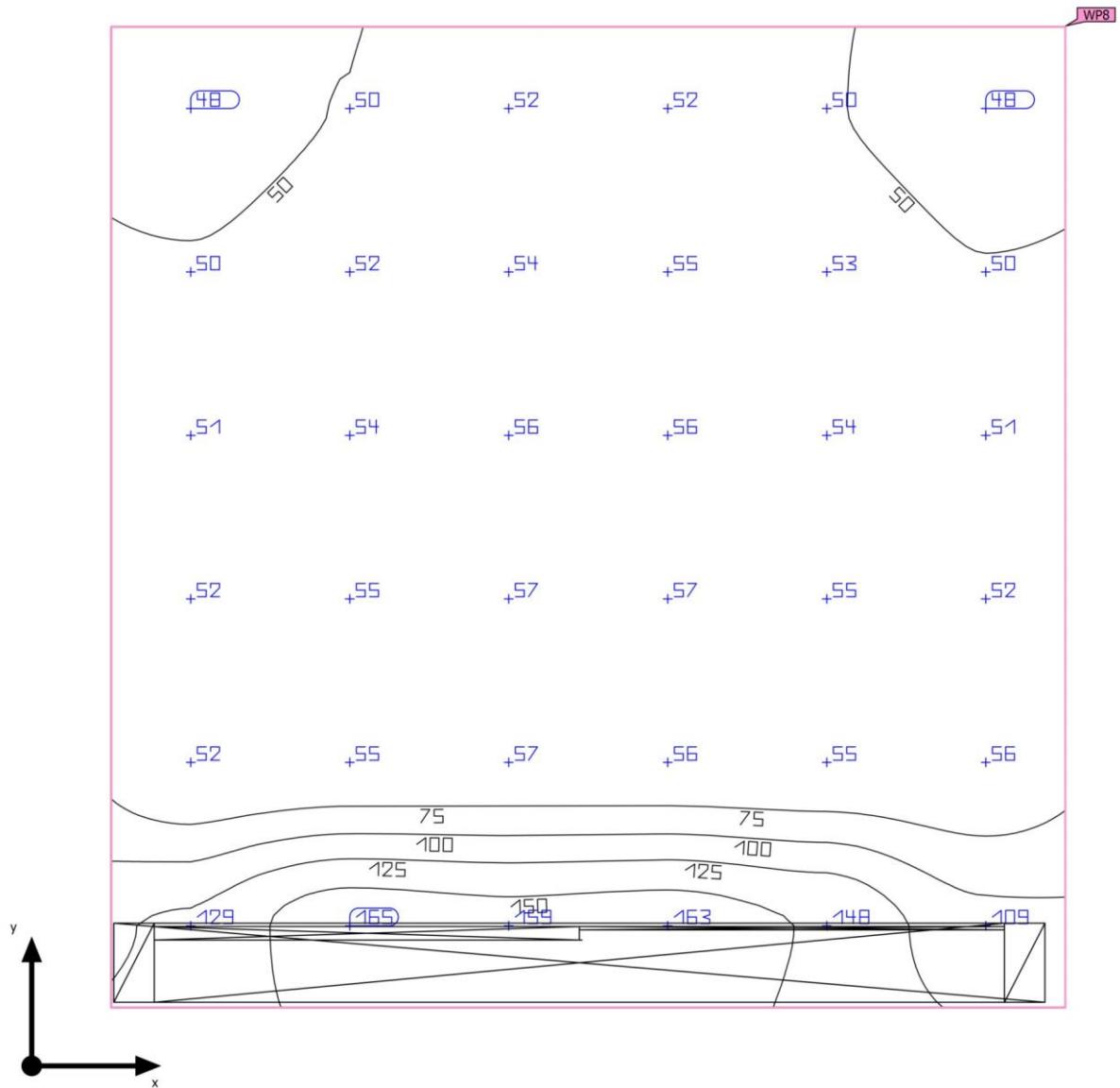
Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Reception/Lounge) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	472 lx (≥ 350 lx)	0.72 lx	904 lx	0.002	0.001	WP34

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Ground Floor · Room 9 (Light scene 1)

Summary



Building 1 · Ground Floor · Room 9 (Light scene 1)

Summary

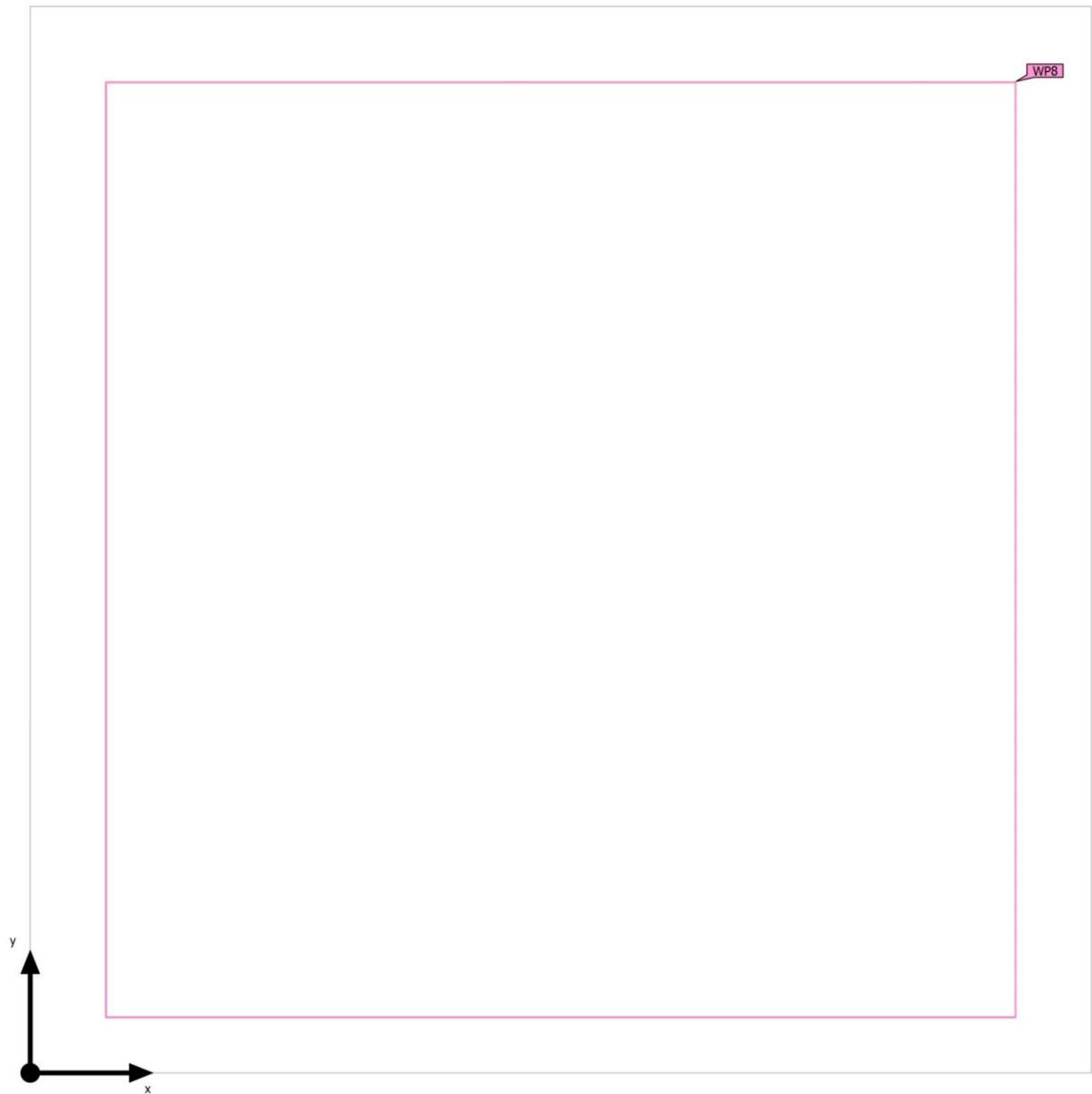
Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	68.7 lx	$\geq 500 \text{ lx}$	X	WP8
	g_1	0.70	-	-	WP8
Consumption values	Consumption	0 kWh/a	max. 50 kWh/a	✓	
Room	Lighting power density	0.00 W/m ²	-	-	
		0.00 W/m ² /100 lx	-	-	

Utilization profile: DIALux presetting, Standard (office)

Building 1 · Ground Floor · Room 9 (Light scene 1)

Calculation objects



Building 1 · Ground Floor · Room 9 (Light scene 1)

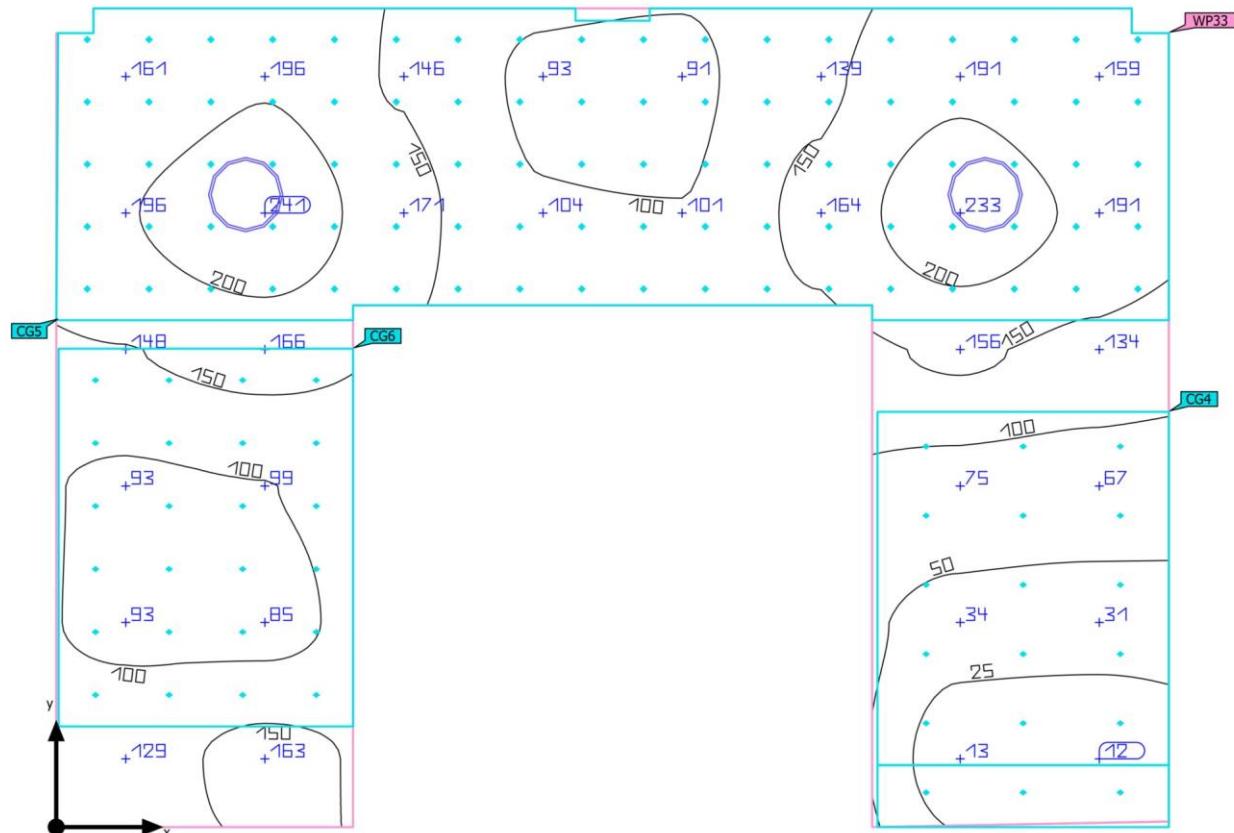
Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{\min}	E_{\max}	g_1	g_2	Index
Working plane (Room 9) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	68.7 lx (≥ 500 lx)	48.2 lx	165 lx	0.70	0.29	WP8

Utilization profile: DIALux presetting, Standard (office)

Building 1 · Ground Floor · Stairs GF to Base (Light scene 1)

Summary

Building 1 · Ground Floor · Stairs GF to Base (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	127 lx	$\geq 100 \text{ lx}$	✓	WP33
	g_1	0.093	-	-	
Consumption values	Consumption	33 kWh/a	max. 400 kWh/a	✓	
Room	Lighting power density	2.88 W/m ²	-	-	
		2.26 W/m ² /100 lx	-	-	

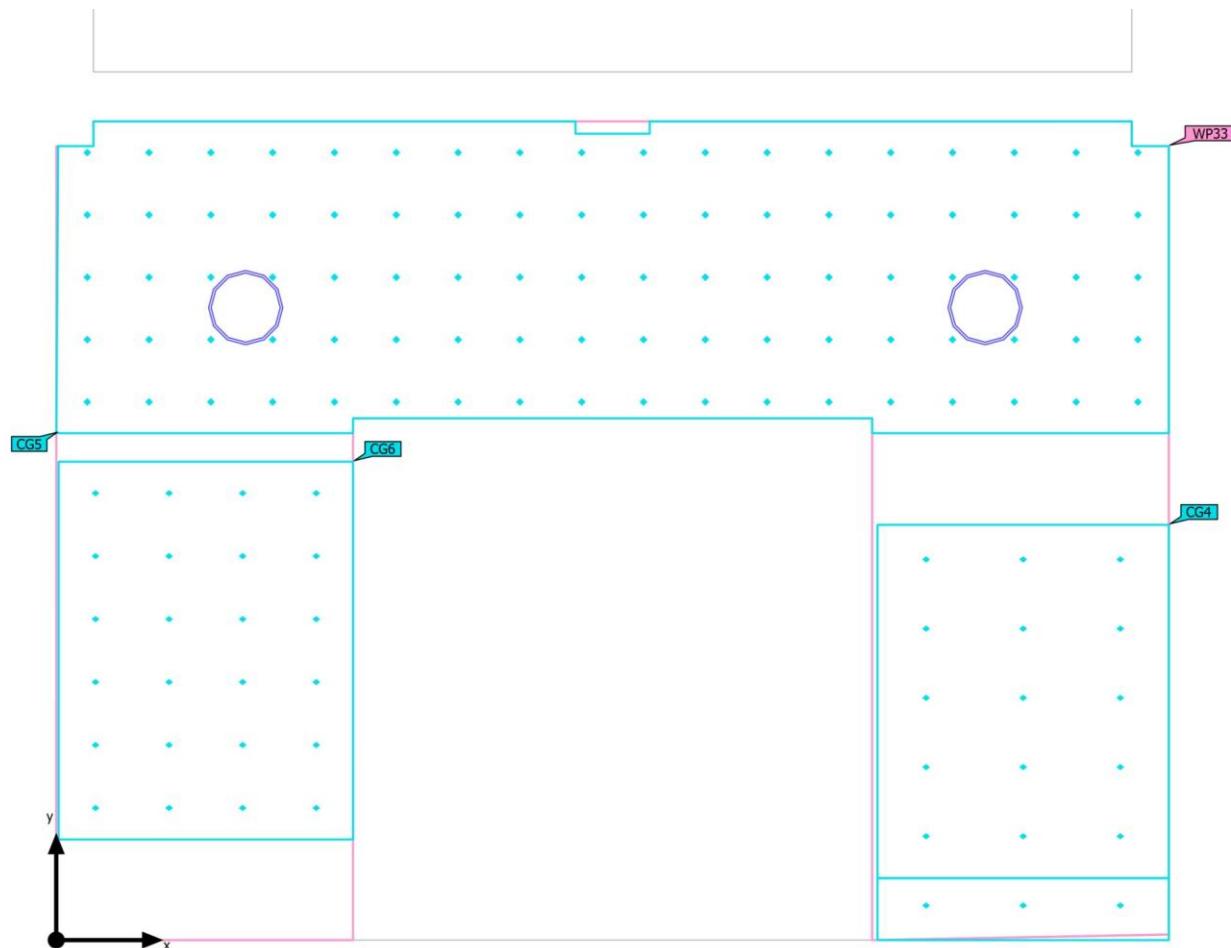
Utilization profile: Traffic zones inside buildings, Stairs, escalators, travelators

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	Aura Light	465304	Alistair CE 15W 1400 On/Off 840	15.0 W	1421 lm	94.7 lm/W

Building 1 · Ground Floor · Stairs GF to Base (Light scene 1)

Calculation objects



Building 1 · Ground Floor · Stairs GF to Base (Light scene 1)

Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1	g_2	Index
Working plane (Stairs GF to Base) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	127 lx ≥ 100 lx	11.8 lx	241 lx	0.093	0.049	WP33



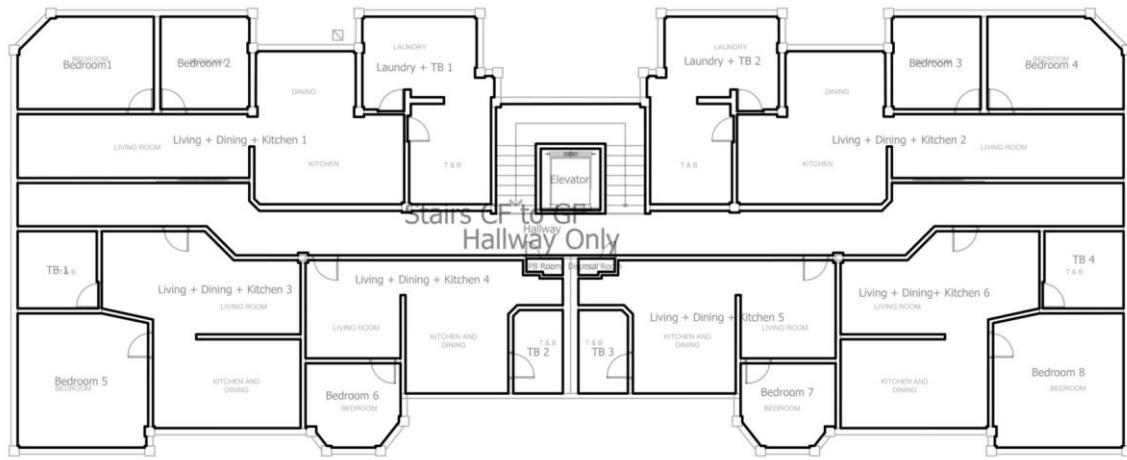
Calculation surfaces

Properties	\bar{E}	E_{min}	E_{max}	g_1	g_2	Index
Calculation surface 13 Perpendicular illuminance Height: 0.812 m	111 lx	57.5 lx	240 lx	0.52	0.24	CG4
Calculation surface 14 Perpendicular illuminance Height: 1.638 m	77.7 lx	61.6 lx	102 lx	0.79	0.60	CG5
Calculation surface 15 Perpendicular illuminance Height: 2.265 m	87.9 lx	74.4 lx	97.7 lx	0.85	0.76	CG6

Utilization profile: Traffic zones inside buildings, Stairs, escalators, travelators

Building 1 · Common Floors (Light scene 1)

Room List



Building 1 · Common Floors (Light scene 1)

Room List**Bedroom1**

P_{total} 85.2 W	A_{Room} 10.90 m ²	Lighting power density $7.82 \text{ W/m}^2 = 3.26 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 240 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Bedroom 2

P_{total} 85.2 W	A_{Room} 7.46 m ²	Lighting power density $11.43 \text{ W/m}^2 = 4.85 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 235 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Building 1 · Common Floors (Light scene 1)

Room List**Bedroom 3**

P_{total} 85.2 W	A_{Room} 7.46 m ²	Lighting power density $11.43 \text{ W/m}^2 = 4.78 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 239 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Bedroom 4

P_{total} 85.2 W	A_{Room} 10.89 m ²	Lighting power density $7.82 \text{ W/m}^2 = 3.29 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 237 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Building 1 · Common Floors (Light scene 1)

Room List**Bedroom 5**

P_{total} 85.2 W	A_{Room} 15.66 m ²	Lighting power density $5.44 \text{ W/m}^2 = 2.51 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 217 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Bedroom 6

P_{total} 85.2 W	A_{Room} 6.70 m ²	Lighting power density $12.71 \text{ W/m}^2 = 5.45 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 233 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Building 1 · Common Floors (Light scene 1)

Room List**Bedroom 7**

P_{total} 85.2 W	A_{Room} 6.70 m ²	Lighting power density $12.71 \text{ W/m}^2 = 5.47 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 233 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Bedroom 8

P_{total} 85.2 W	A_{Room} 15.67 m ²	Lighting power density $5.44 \text{ W/m}^2 = 2.47 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 220 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Building 1 · Common Floors (Light scene 1)

Room List**Disposal Room**

P_{total} 21.3 W	A_{Room} 0.50 m ²	Lighting power density $42.57 \text{ W/m}^2 = 10.56 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 403 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
1	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Elevator

P_{total} 21.3 W	A_{Room} 3.33 m ²	Lighting power density $6.40 \text{ W/m}^2 = 4.34 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 147 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
1	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Building 1 · Common Floors (Light scene 1)

Room List**Hallway Only**

P_{total} 298.2 W	A_{Room} 45.27 m ²	Lighting power density 6.59 W/m ² = 3.11 W/m ² /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 212 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm
10	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Laundry + TB 1

P_{total} 106.5 W	A_{Room} 16.90 m ²	Lighting power density 6.30 W/m ² = 1.75 W/m ² /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 359 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
5	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Building 1 · Common Floors (Light scene 1)

Room List

Laundry + TB 2

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{\text{perpendicular (Working plane)}}$
106.5 W	16.90 m ²	6.30 W/m ² = 1.76 W/m ² /100 lx (Room)	359 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
5	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Living + Dining + Kitchen 1

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{\text{perpendicular (Working plane)}}$
356.2 W	31.48 m ²	11.31 W/m ² = 3.71 W/m ² /100 lx (Room)	305 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
1	Artemide S.p.A.	1366W10A	MERCURY LED C 2700K	58.0 W	2893 lm
14	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Building 1 · Common Floors (Light scene 1)

Room List**Living + Dining + Kitchen 2**

P_{total} 356.2 W	A_{Room} 31.50 m ²	Lighting power density $11.31 \text{ W/m}^2 = 3.67 \text{ W/m}^2/100 \text{ lx (Room)}$	$E_{\text{perpendicular (Working plane)}}$ 308 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
1	Artemide S.p.A.	1366W10A	MERCURY LED C 2700K	58.0 W	2893 lm
14	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Living + Dining + Kitchen 3

P_{total} 371.6 W	A_{Room} 27.65 m ²	Lighting power density $13.44 \text{ W/m}^2 = 4.15 \text{ W/m}^2/100 \text{ lx (Room)}$	$E_{\text{perpendicular (Working plane)}}$ 324 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
2	Artemide S.p.A.	1366W10A	MERCURY LED C 2700K	58.0 W	2893 lm
12	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Building 1 · Common Floors (Light scene 1)

Room List**Living + Dining + Kitchen 4**

P_{total} 234.3 W	A_{Room} 22.73 m ²	Lighting power density $10.31 \text{ W/m}^2 = 2.85 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 361 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
11	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Living + Dining + Kitchen 5

P_{total} 234.3 W	A_{Room} 22.73 m ²	Lighting power density $10.31 \text{ W/m}^2 = 2.84 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 363 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
11	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Building 1 · Common Floors (Light scene 1)

Room List**Living + Dining+ Kitchen 6**

P_{total} 371.6 W	A_{Room} 27.65 m ²	Lighting power density $13.44 \text{ W/m}^2 = 3.97 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 338 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
2	Artemide S.p.A.	1366W10A	MERCURY LED C 2700K	58.0 W	2893 lm
12	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

PB Room

P_{total} 21.3 W	A_{Room} 0.50 m ²	Lighting power density $42.57 \text{ W/m}^2 = 10.51 \text{ W/m}^2/100 \text{ lx (Room)}$	$\bar{E}_{\text{perpendicular (Working plane)}}$ 405 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
1	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Building 1 · Common Floors (Light scene 1)

Room List

Stairs CF to GF

P_{total} 30.0 W	A_{Room} 10.44 m ²	Lighting power density $2.87 \text{ W/m}^2 = 2.20 \text{ W/m}^2/100 \text{ lx (Room)}$	$E_{\text{perpendicular (Working plane)}}$ 131 lx
<hr/>			
pcs.	Manufacturer	Article No.	Article name
2	Aura Light	465304	Alistair CE 15W 1400 On/Off 840
			P $\Phi_{\text{Luminaire}}$
			15.0 W 1421 lm

TB 1

P_{total} 42.6 W	A_{Room} 5.60 m ²	Lighting power density $7.61 \text{ W/m}^2 = 2.31 \text{ W/m}^2/100 \text{ lx (Room)}$	$E_{\text{perpendicular (Working plane)}}$ 329 lx
<hr/>			
pcs.	Manufacturer	Article No.	Article name
2	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders
			P $\Phi_{\text{Luminaire}}$
			21.3 W 2139 lm

TB 2

P_{total} 21.3 W	A_{Room} 3.74 m ²	Lighting power density $5.69 \text{ W/m}^2 = 2.49 \text{ W/m}^2/100 \text{ lx (Room)}$	$E_{\text{perpendicular (Working plane)}}$ 228 lx
<hr/>			
pcs.	Manufacturer	Article No.	Article name
1	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders
			P $\Phi_{\text{Luminaire}}$
			21.3 W 2139 lm

Building 1 · Common Floors (Light scene 1)

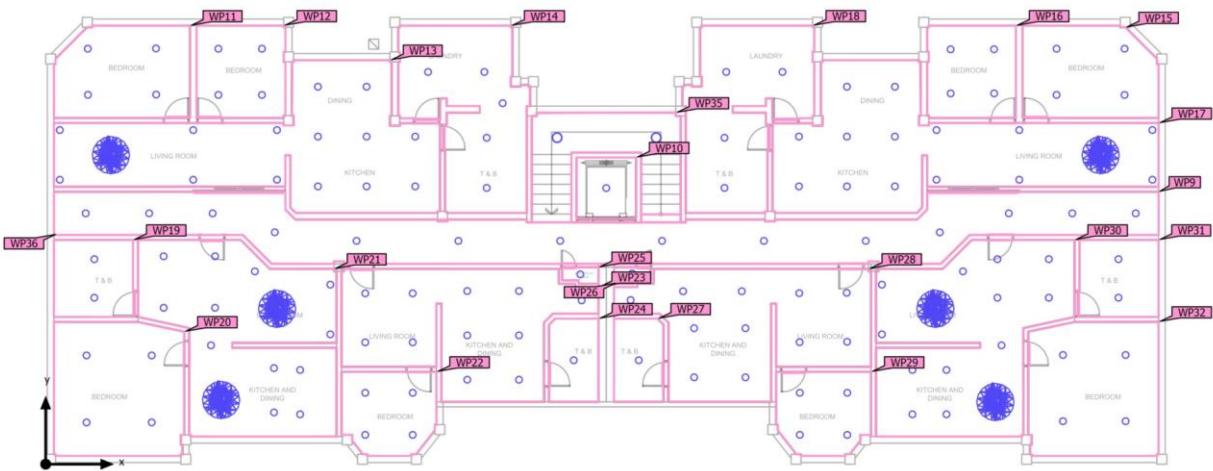
Room List**TB 3**

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{\text{perpendicular (Working plane)}}$		
21.3 W	3.74 m ²	5.69 W/m ² = 2.48 W/m ² /100 lx (Room)	229 lx		
pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
1	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

TB 4

P_{total}	A_{Room}	Lighting power density	$\bar{E}_{\text{perpendicular (Working plane)}}$		
42.6 W	5.60 m ²	7.61 W/m ² = 2.31 W/m ² /100 lx (Room)	330 lx		
pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
2	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm

Building 1 · Common Floors (Light scene 1)

Calculation objects

Building 1 · Common Floors (Light scene 1)

Calculation objects**Working planes**

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1	g_2	Index
Working plane (Hallway) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	198 lx (≥ 150 lx)	28.6 lx	315 lx	0.14	0.091	WP9
	✓					
Working plane (Elevator) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	147 lx (≥ 100 lx)	112 lx	174 lx	0.76	0.64	WP10
	✓					
Working plane (Bedroom1) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	240 lx (≥ 150 lx)	3.13 lx	465 lx	0.013	0.007	WP11
	✓					
Working plane (Bedroom 2) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	235 lx (≥ 150 lx)	1.95 lx	571 lx	0.008	0.003	WP12
	✓					
Working plane (Living + Dining + Kitchen 1) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	305 lx (≥ 300 lx)	0.16 lx	697 lx	0.001	0.000	WP13
	✓					
Working plane (Laundry + TB 1) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	359 lx (≥ 200 lx)	0.69 lx	778 lx	0.002	0.001	WP14
	✓					
Working plane (Bedroom 4) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	237 lx (≥ 150 lx)	3.60 lx	446 lx	0.015	0.008	WP15
	✓					
Working plane (Bedroom 3) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	239 lx (≥ 150 lx)	1.88 lx	581 lx	0.008	0.003	WP16
	✓					
Working plane (Living + Dining + Kitchen 2) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	308 lx (≥ 300 lx)	0.43 lx	700 lx	0.001	0.001	WP17
	✓					
Working plane (Laundry + TB 2) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	359 lx (≥ 200 lx)	0.99 lx	783 lx	0.003	0.001	WP18
	✓					
Working plane (TB 1) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	329 lx (≥ 200 lx)	28.0 lx	655 lx	0.085	0.043	WP19
	✓					

Building 1 - Common Floors (Light scene 1)

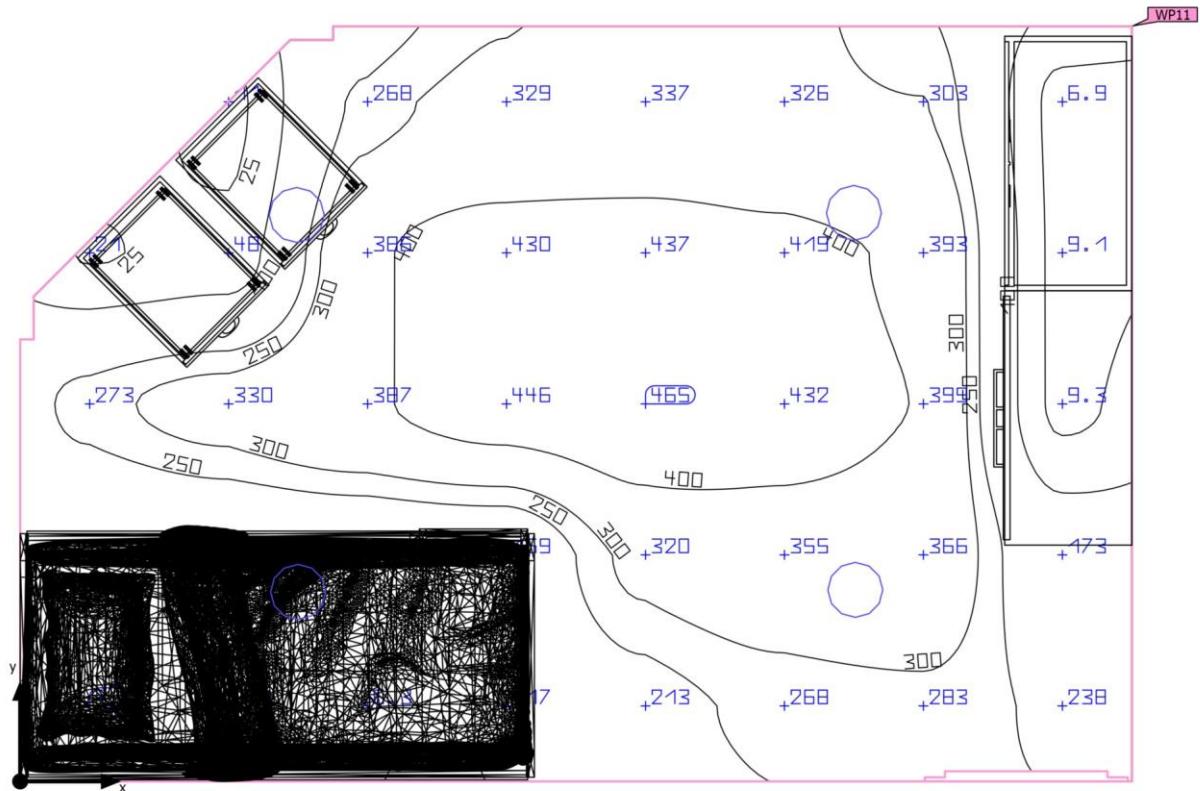
Calculation objects

Working plane (Bedroom 5) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	217 lx (≥ 150 lx)	0.93 lx	395 lx	0.004	0.002	WP20
		✓				
Working plane (Living + Dining + Kitchen 3) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	324 lx (≥ 300 lx)	0.33 lx	735 lx	0.001	0.000	WP21
		✓				
Working plane (Bedroom 6) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	233 lx (≥ 150 lx)	1.57 lx	551 lx	0.007	0.003	WP22
		✓				
Working plane (Living + Dining + Kitchen 4) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	361 lx (≥ 150 lx)	0.00 lx	686 lx	0.00	0.00	WP23
		✓				
Working plane (TB 2) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	228 lx (≥ 200 lx)	25.6 lx	418 lx	0.11	0.061	WP24
		✓				
Working plane (PB Room) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	405 lx (≥ 200 lx)	350 lx	453 lx	0.86	0.77	WP25
		✓				
Working plane (Disposal Room) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	403 lx (≥ 300 lx)	346 lx	450 lx	0.86	0.77	WP26
		✓				
Working plane (TB 3) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	229 lx (≥ 200 lx)	25.7 lx	426 lx	0.11	0.060	WP27
		✓				
Working plane (Living + Dining + Kitchen 5) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	363 lx (≥ 150 lx)	0.009 lx	688 lx	0.000	0.000	WP28
		✓				
Working plane (Bedroom 7) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	233 lx (≥ 150 lx)	1.79 lx	548 lx	0.008	0.003	WP29
		✓				
Working plane (Living + Dining+ Kitchen 6) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	338 lx (≥ 300 lx)	0.55 lx	728 lx	0.002	0.001	WP30
		✓				
Working plane (TB 4) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	330 lx (≥ 200 lx)	33.5 lx	653 lx	0.10	0.051	WP31
		✓				

Building 1 · Common Floors (Light scene 1)**Calculation objects**

Working plane (Bedroom 8) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	220 lx (≥ 150 lx)	0.82 lx	405 lx	0.004	0.002	WP32
Working plane (Stairs CF to GF) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	131 lx (≥ 100 lx)	18.5 lx	242 lx	0.14	0.076	WP35
Working plane (Hallway Only) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	212 lx (≥ 150 lx)	145 lx	314 lx	0.68	0.46	WP36

Building 1 · Common Floors · Bedroom1 (Light scene 1)

Summary

Building 1 · Common Floors · Bedroom1 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	240 lx	$\geq 150 \text{ lx}$	✓	WP11
	g_1	0.013	-	-	WP11
Consumption values	Consumption	[59 - 94] kWh/a	max. 400 kWh/a	✓	
Room	Lighting power density	7.82 W/m ²	-	-	
		3.26 W/m ² /100 lx	-	-	

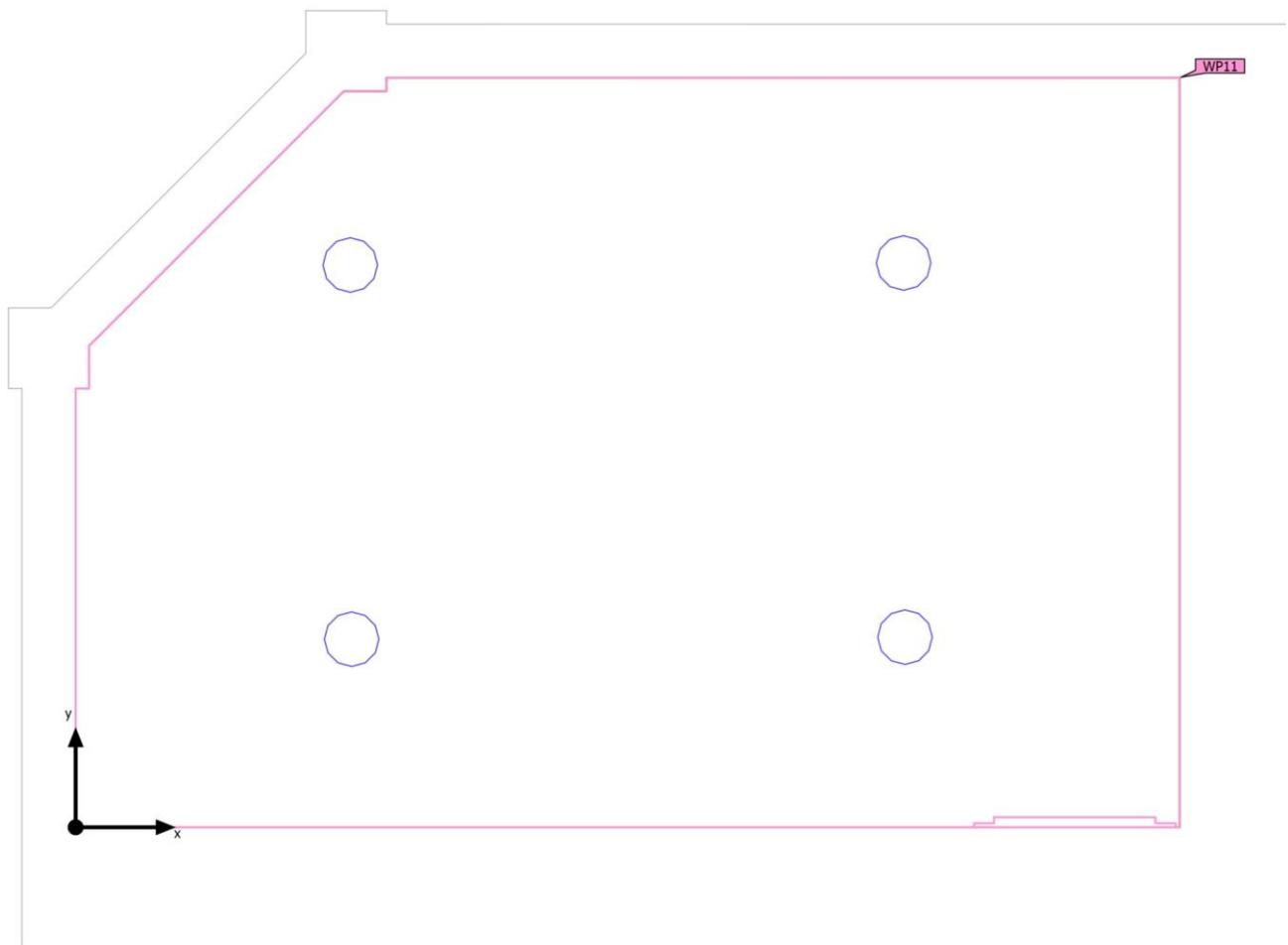
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Bedroom1 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Bedroom1 (Light scene 1)

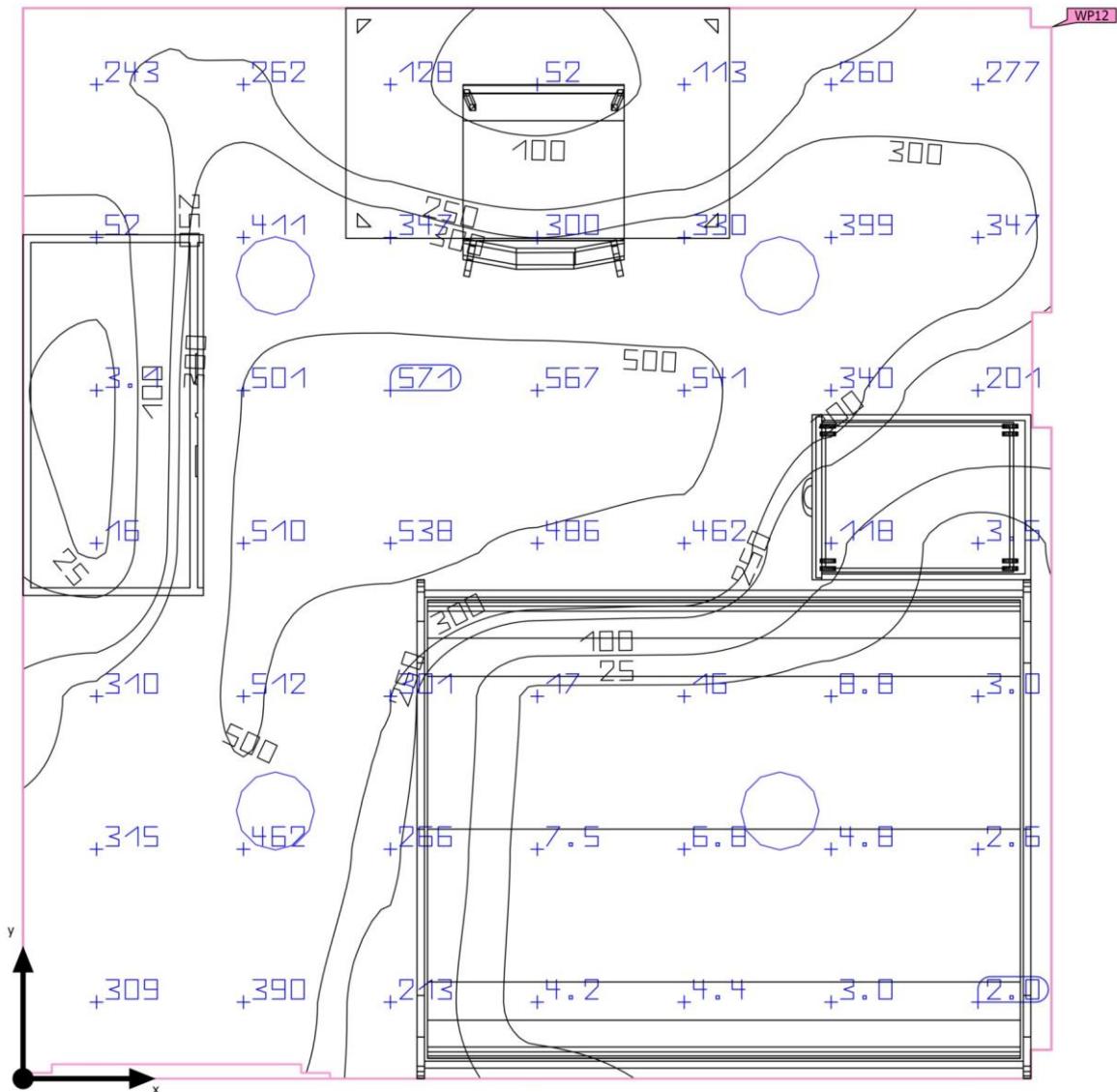
Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Bedroom1) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	240 lx (≥ 150 lx) 	3.13 lx	465 lx	0.013	0.007	WP11

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Bedroom 2 (Light scene 1)

Summary

Building 1 · Common Floors · Bedroom 2 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	235 lx	$\geq 150 \text{ lx}$	✓	WP12
	g_1	0.008	-	-	WP12
Consumption values	Consumption	[59 - 94] kWh/a	max. 300 kWh/a	✓	
Room	Lighting power density	11.43 W/m ²	-	-	
		4.85 W/m ² /100 lx	-	-	

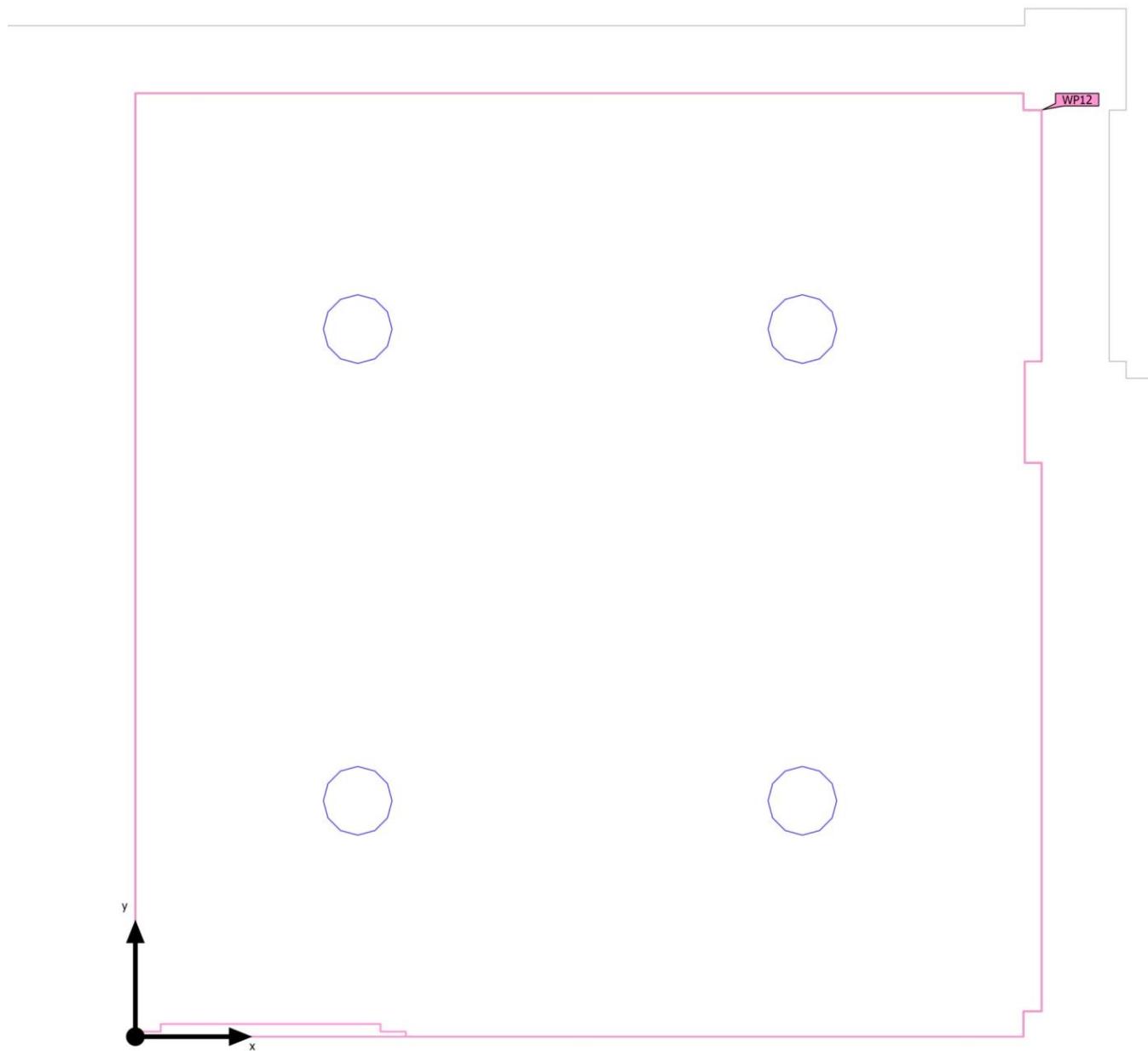
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Bedroom 2 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Bedroom 2 (Light scene 1)

Calculation objects

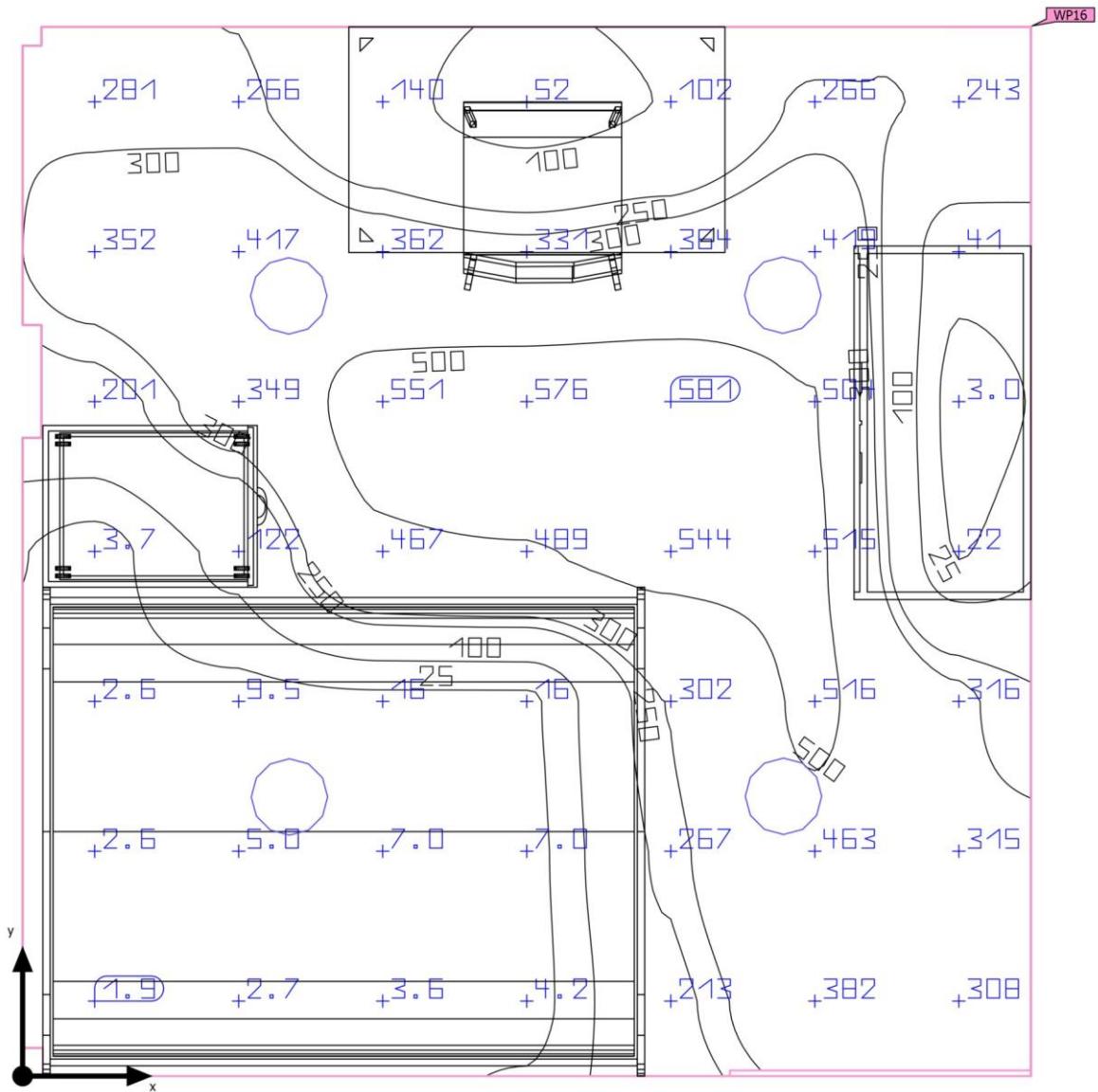
Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Bedroom 2) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	235 lx (≥ 150 lx)	1.95 lx	571 lx	0.008	0.003	WP12

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Bedroom 3 (Light scene 1)

Summary



Building 1 · Common Floors · Bedroom 3 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	239 lx	$\geq 150 \text{ lx}$	✓	WP16
	g_1	0.008	-	-	WP16
Consumption values	Consumption	[59 - 94] kWh/a	max. 300 kWh/a	✓	
Room	Lighting power density	11.43 W/m ²	-	-	
		4.78 W/m ² /100 lx	-	-	

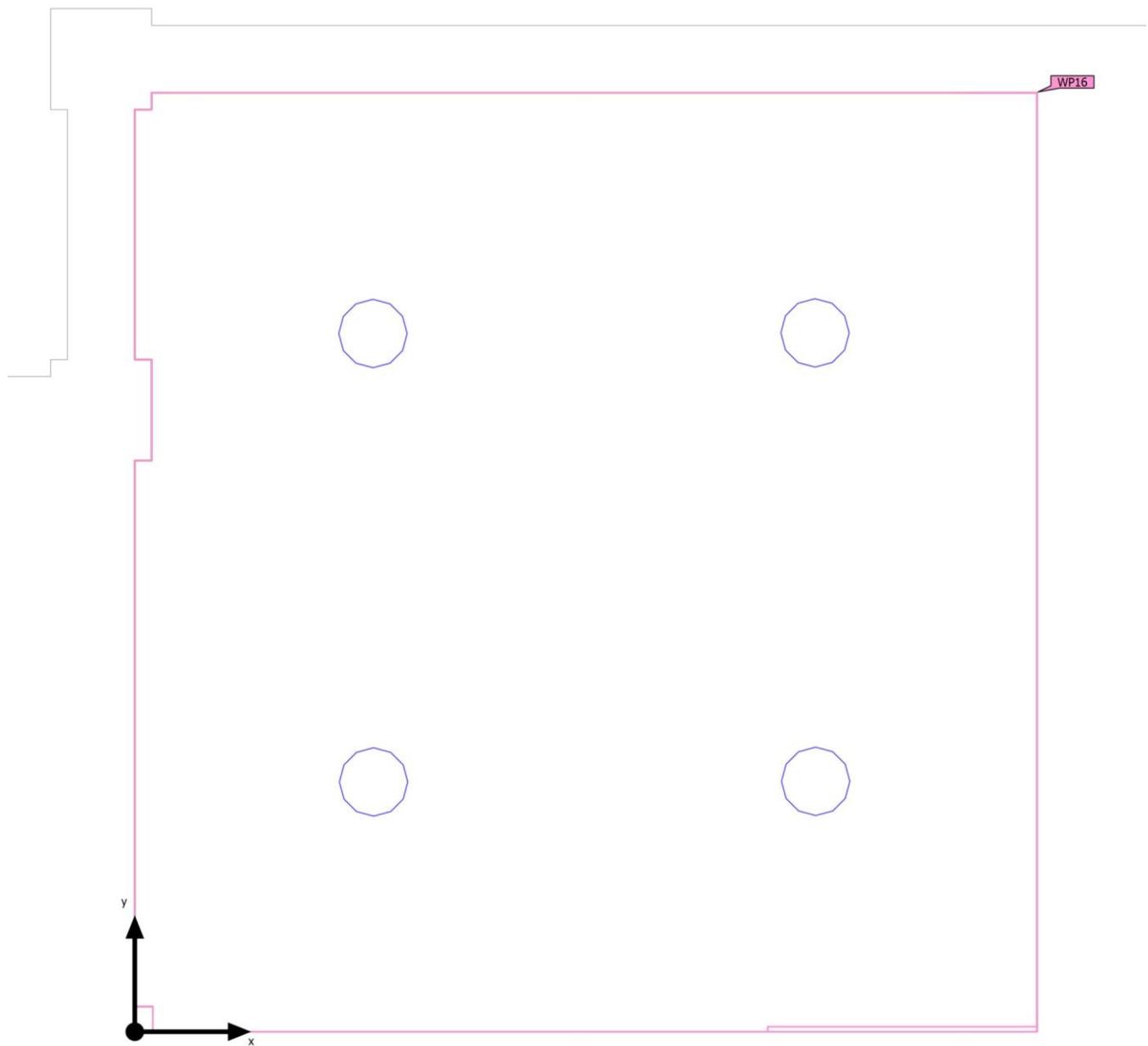
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Bedroom 3 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Bedroom 3 (Light scene 1)

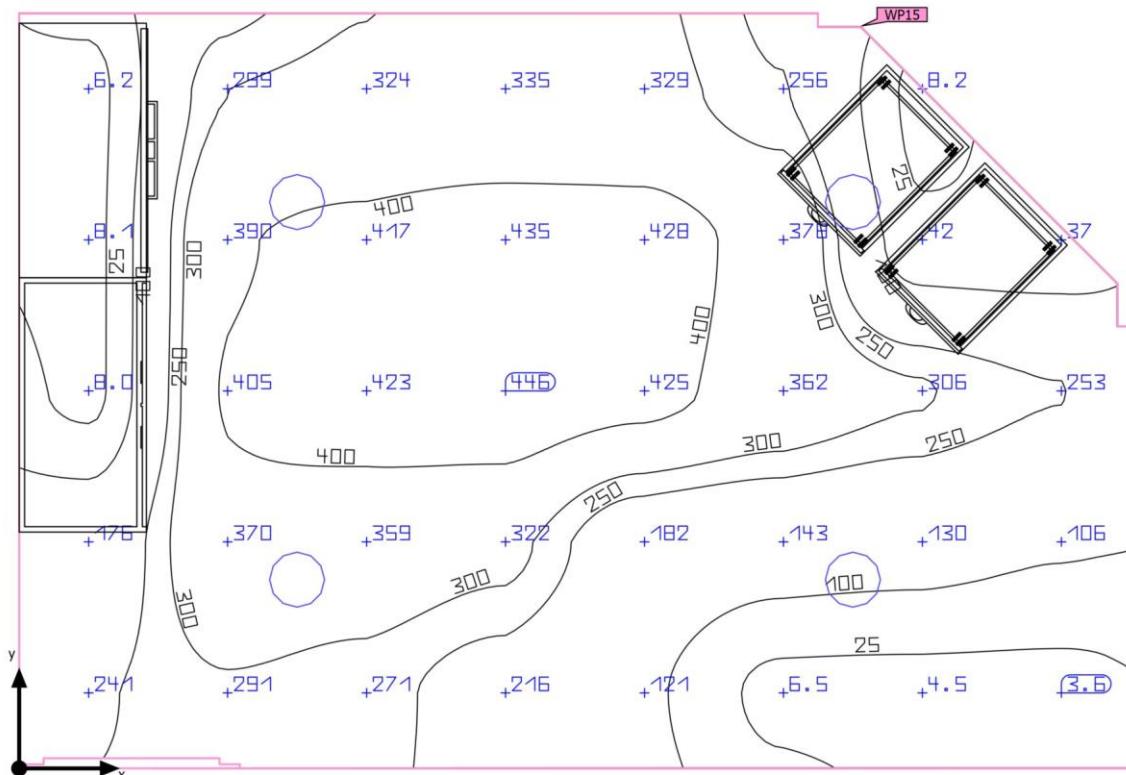
Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Bedroom 3) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	239 lx (≥ 150 lx) 	1.88 lx	581 lx	0.008	0.003	WP16

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Bedroom 4 (Light scene 1)

Summary

Building 1 · Common Floors · Bedroom 4 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	237 lx	$\geq 150 \text{ lx}$	✓	WP15
	g_1	0.015	-	-	WP15
Consumption values	Consumption	[59 - 94] kWh/a	max. 400 kWh/a	✓	
Room	Lighting power density	7.82 W/m ²	-	-	
		3.29 W/m ² /100 lx	-	-	

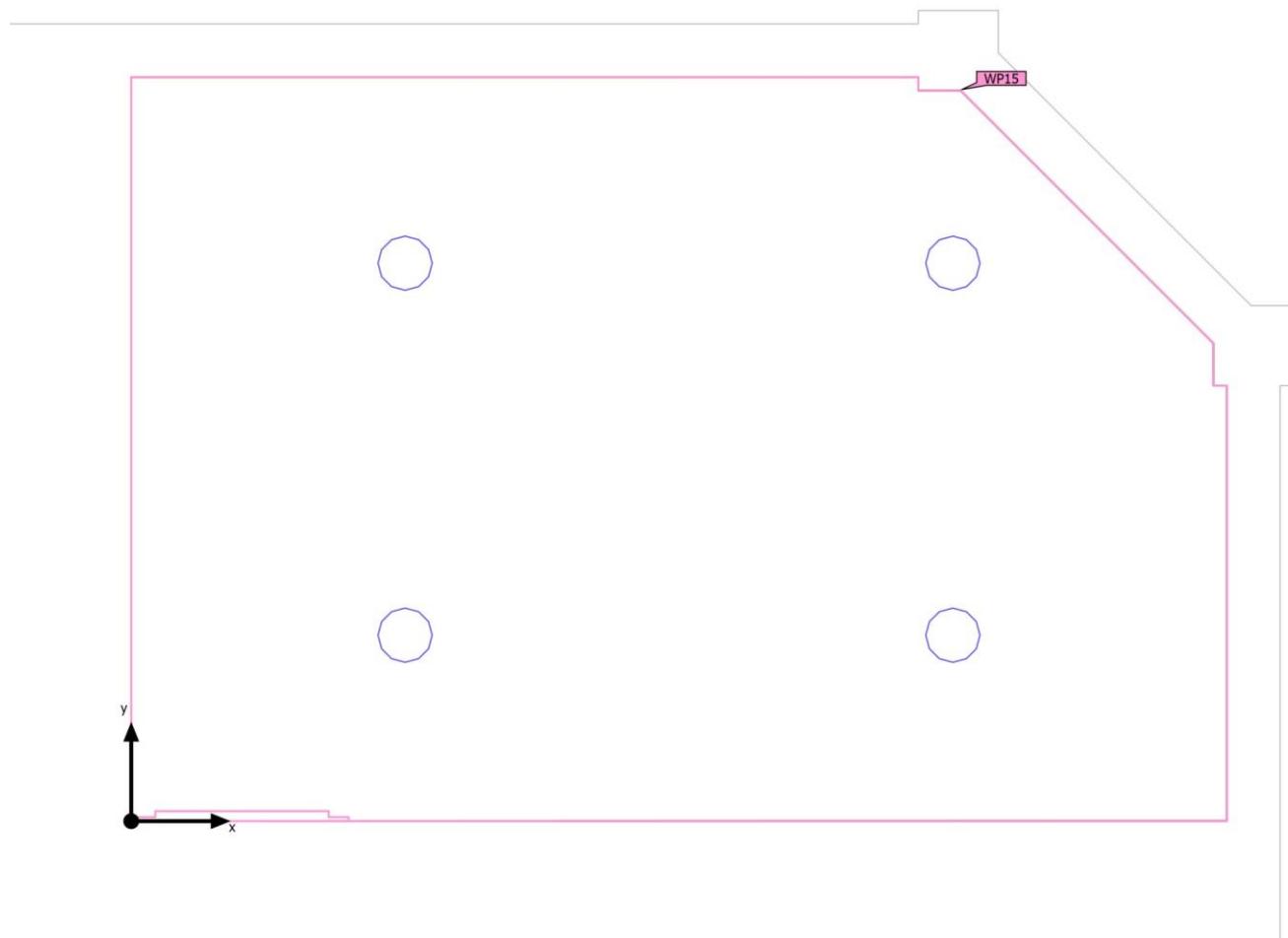
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Bedroom 4 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Bedroom 4 (Light scene 1)

Calculation objects

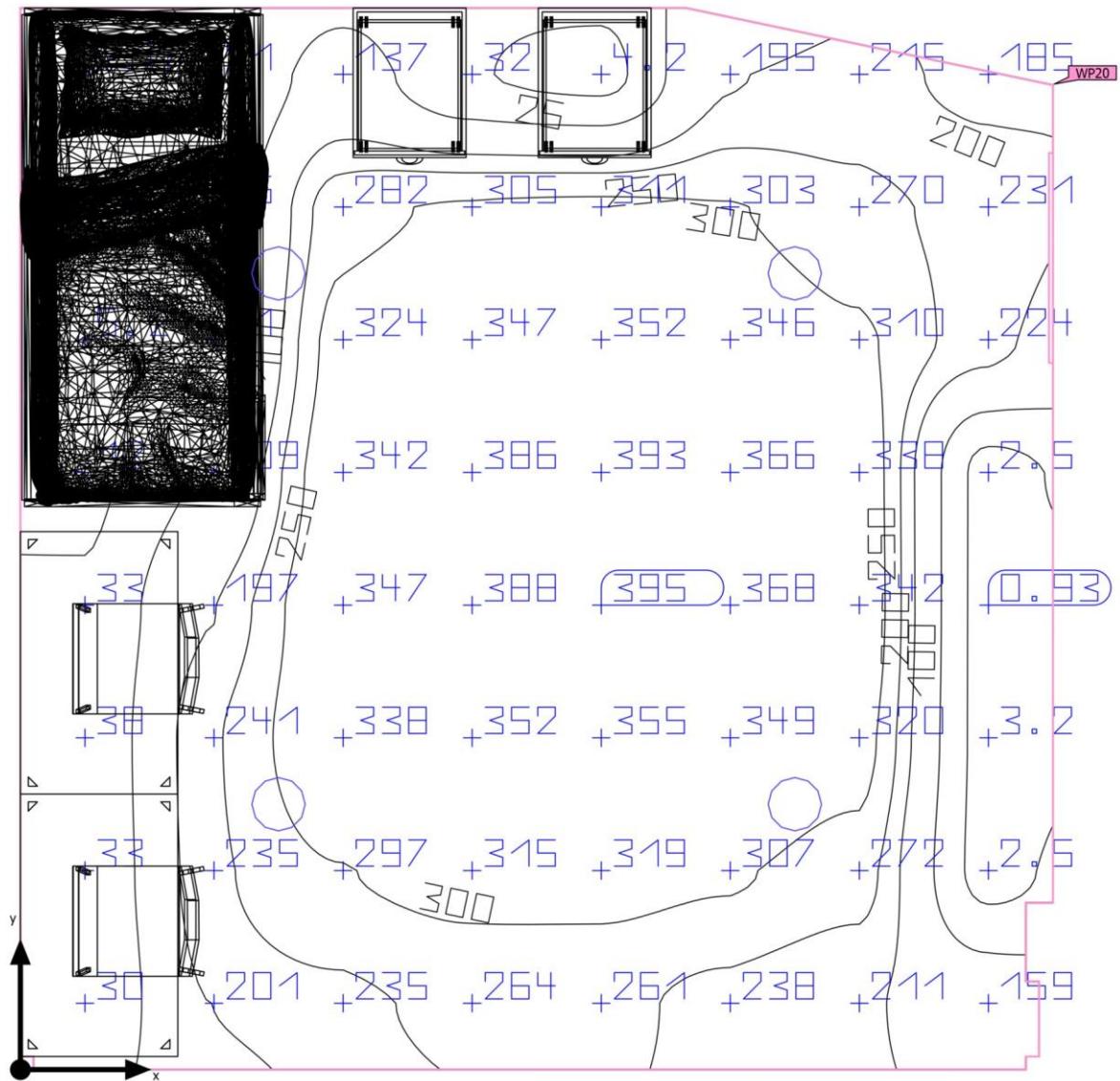
Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Bedroom 4) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	237 lx (≥ 150 lx)	3.60 lx	446 lx	0.015	0.008	WP15

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Bedroom 5 (Light scene 1)

Summary



Building 1 · Common Floors · Bedroom 5 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	217 lx	$\geq 150 \text{ lx}$	✓	WP20
	g_1	0.004	-	-	WP20
Consumption values	Consumption	[59 - 94] kWh/a	max. 550 kWh/a	✓	
Room	Lighting power density	5.44 W/m ²	-	-	
		2.51 W/m ² /100 lx	-	-	

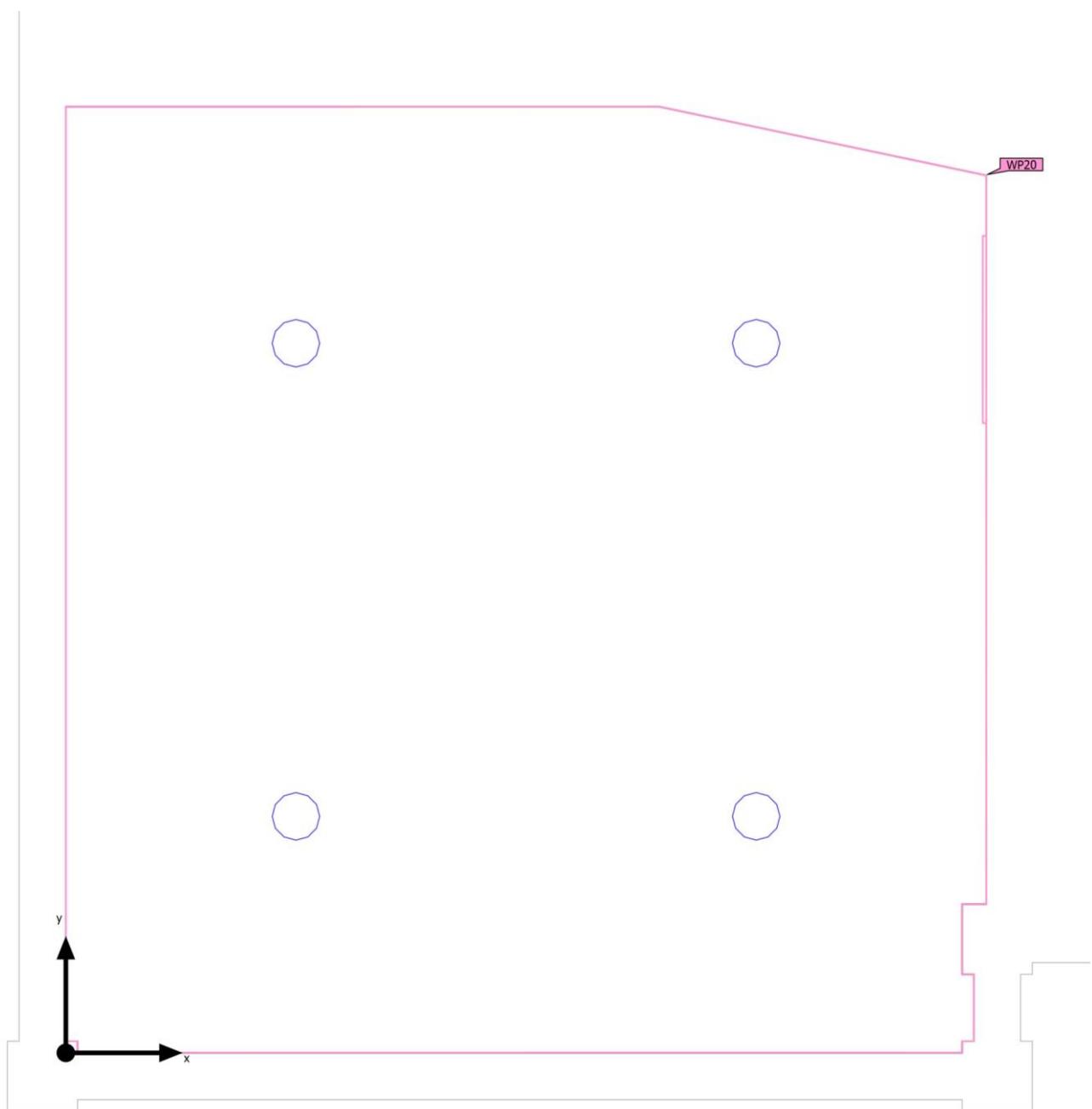
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Bedroom 5 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Bedroom 5 (Light scene 1)

Calculation objects

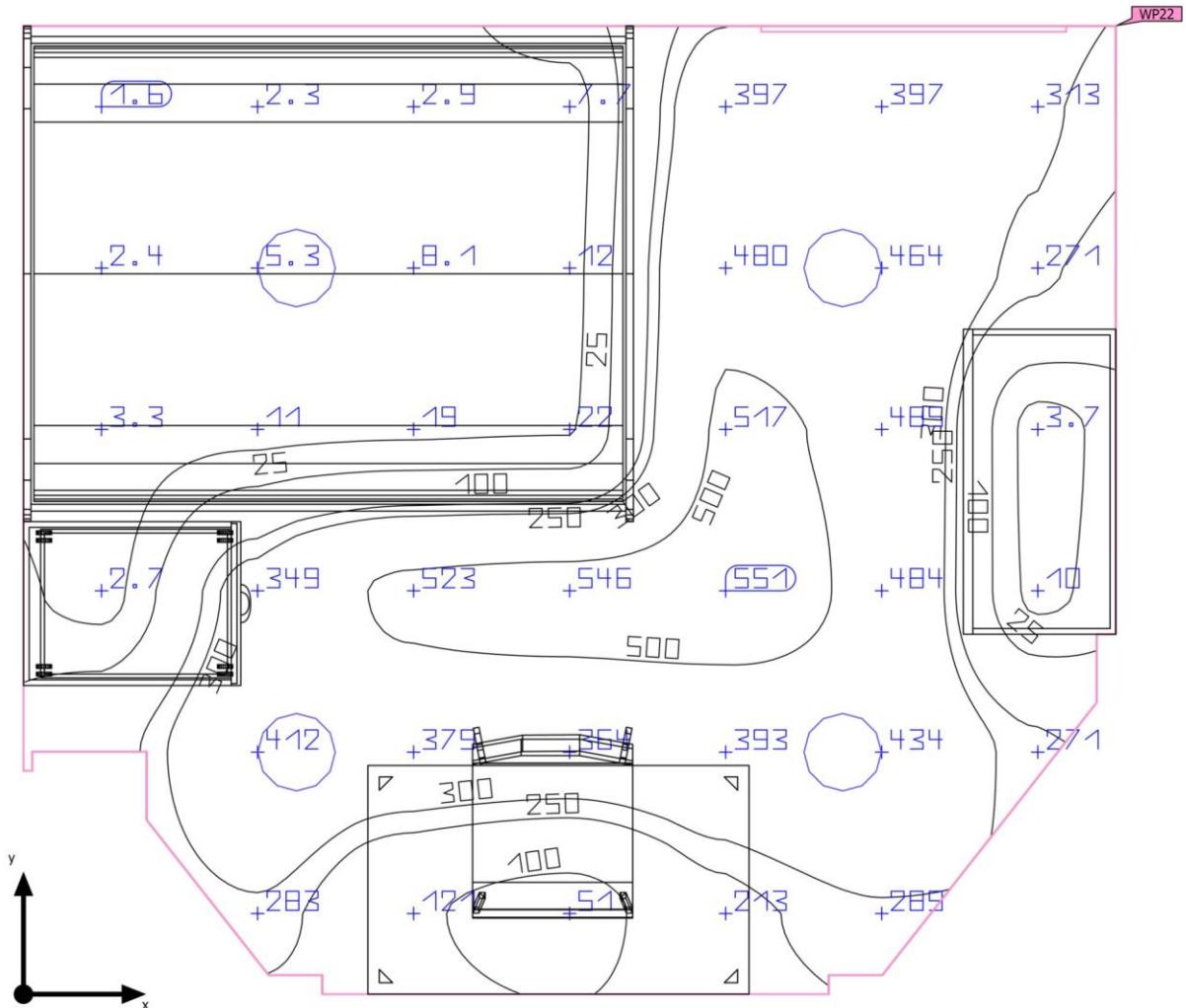
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1	g_2	Index
Working plane (Bedroom 5) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	217 lx (≥ 150 lx)	0.93 lx	395 lx	0.004	0.002	WP20

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Bedroom 6 (Light scene 1)

Summary



Building 1 · Common Floors · Bedroom 6 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	233 lx	$\geq 150 \text{ lx}$	✓	WP22
	g_1	0.007	-	-	WP22
Consumption values	Consumption	[59 - 94] kWh/a	max. 250 kWh/a	✓	
Room	Lighting power density	12.71 W/m ²	-	-	
		5.45 W/m ² /100 lx	-	-	

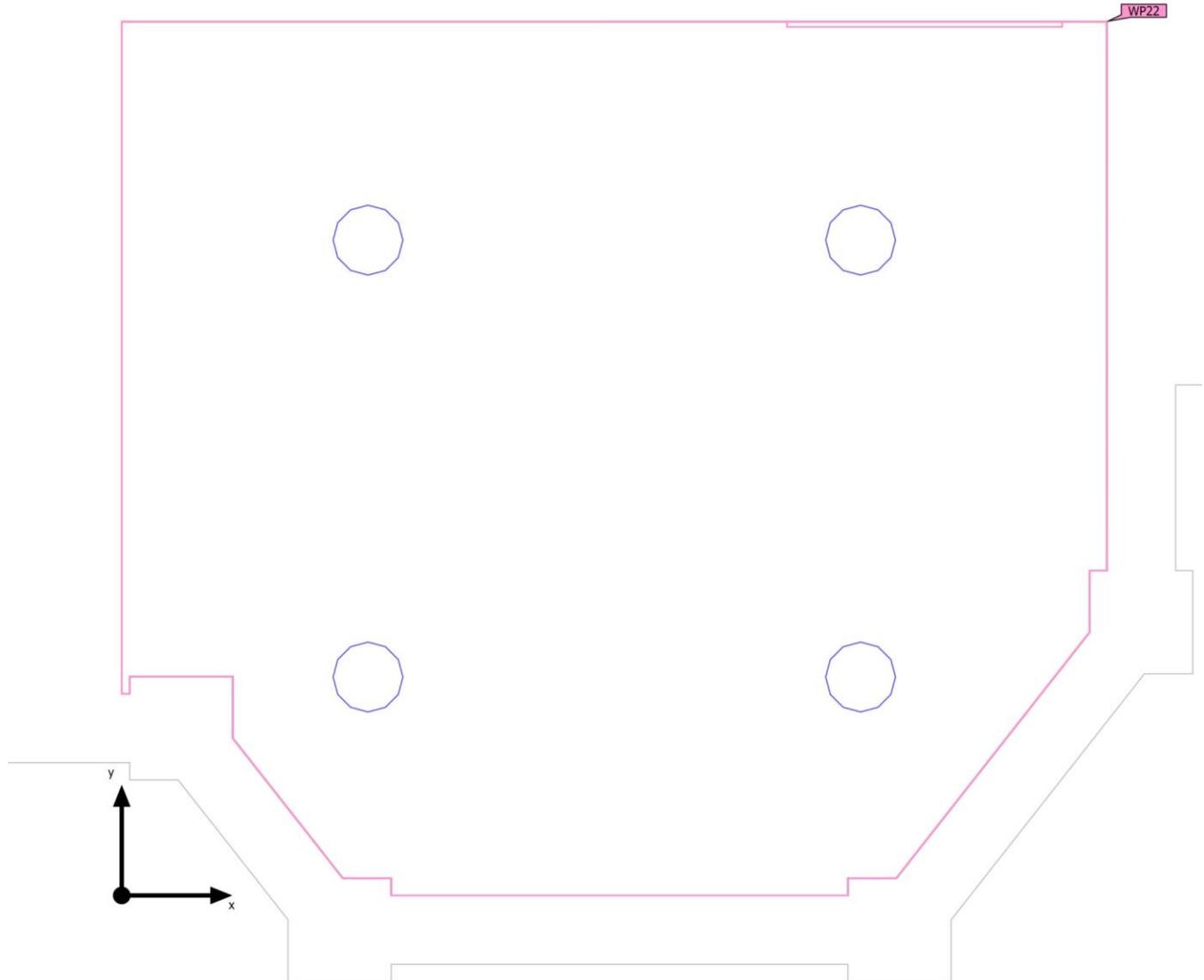
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Bedroom 6 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Bedroom 6 (Light scene 1)

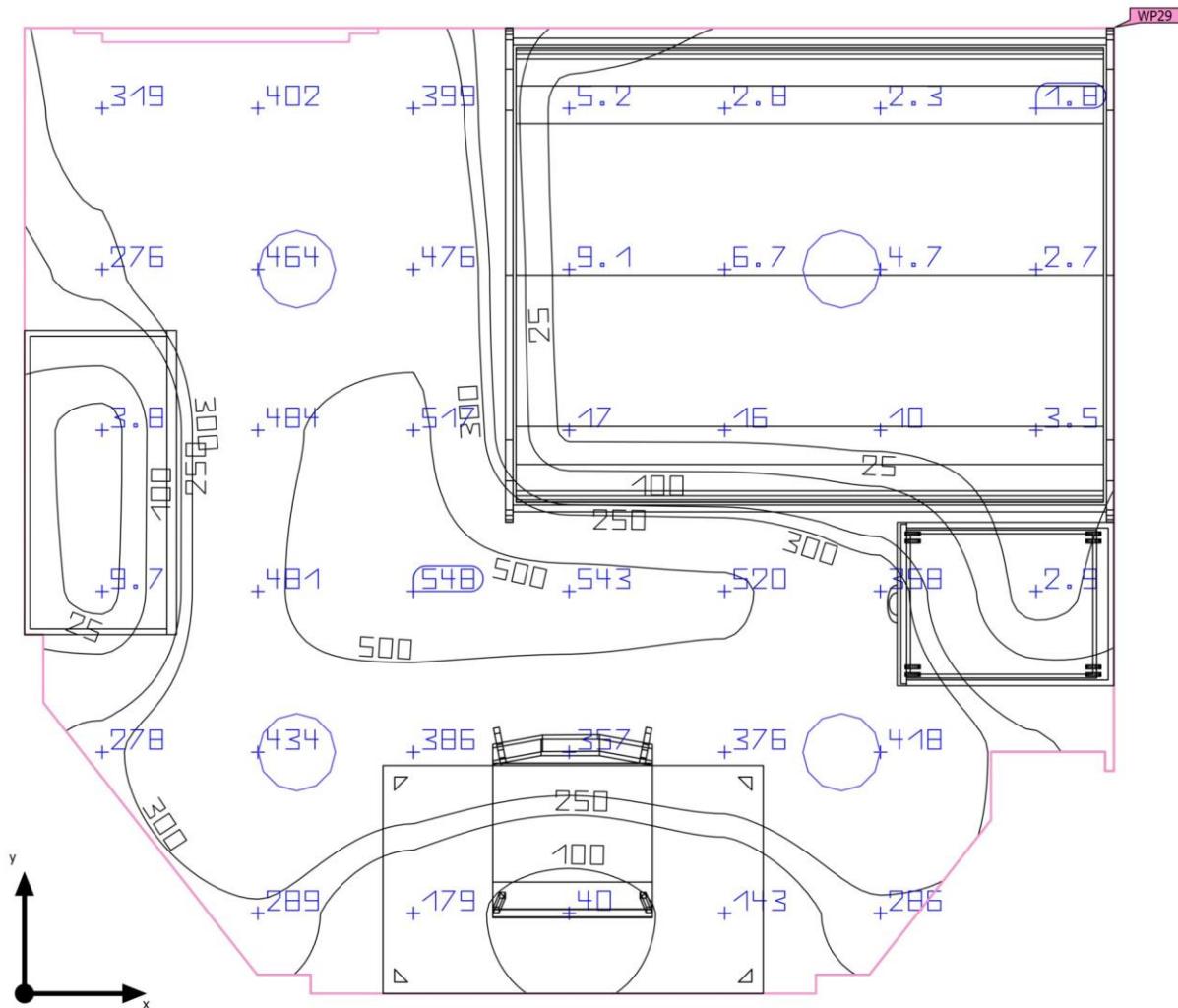
Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Bedroom 6) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	233 lx (≥ 150 lx) 	1.57 lx	551 lx	0.007	0.003	WP22

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Bedroom 7 (Light scene 1)

Summary

Building 1 · Common Floors · Bedroom 7 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	233 lx	$\geq 150 \text{ lx}$	✓	WP29
	g_1	0.008	-	-	WP29
Consumption values	Consumption	[59 - 94] kWh/a	max. 250 kWh/a	✓	
Room	Lighting power density	12.71 W/m ²	-	-	
		5.47 W/m ² /100 lx	-	-	

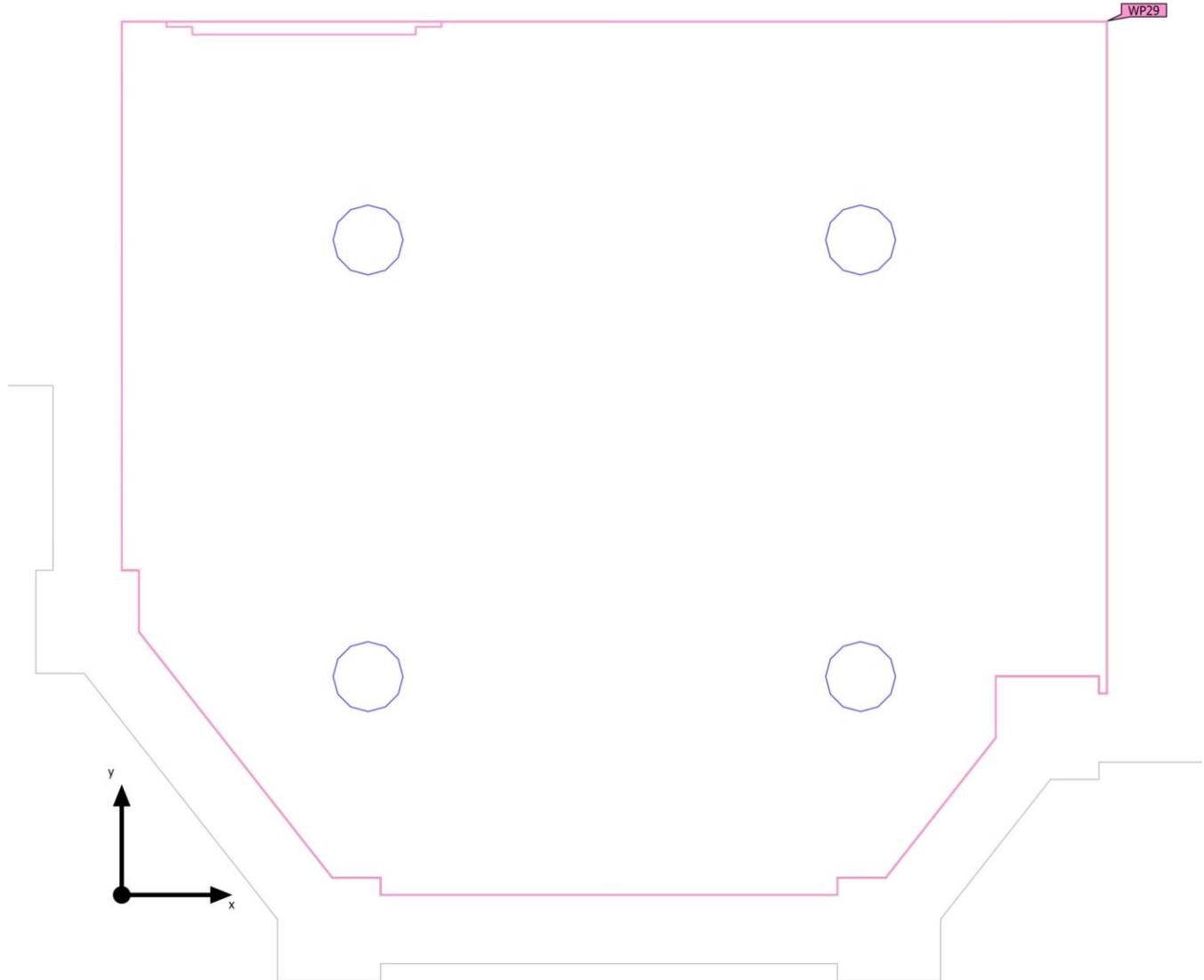
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Bedroom 7 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Bedroom 7 (Light scene 1)

Calculation objects

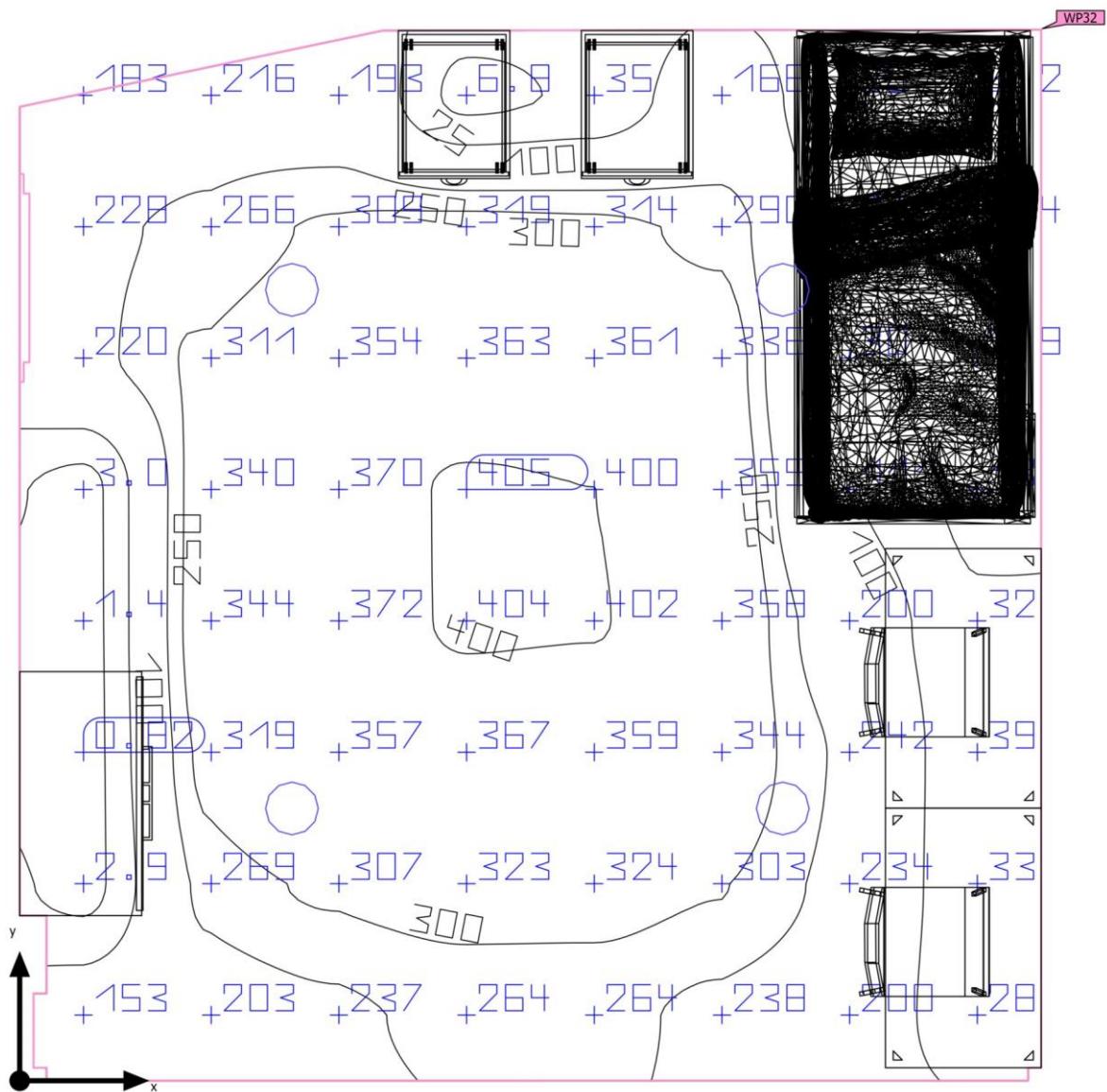
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1	g_2	Index
Working plane (Bedroom 7) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	233 lx $(\geq 150 \text{ lx})$	1.79 lx	548 lx	0.008	0.003	WP29

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Bedroom 8 (Light scene 1)

Summary



Building 1 · Common Floors · Bedroom 8 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	220 lx	$\geq 150 \text{ lx}$	✓	WP32
	g_1	0.004	-	-	WP32
Consumption values	Consumption	[59 - 94] kWh/a	max. 550 kWh/a	✓	
Room	Lighting power density	5.44 W/m ²	-	-	
		2.47 W/m ² /100 lx	-	-	

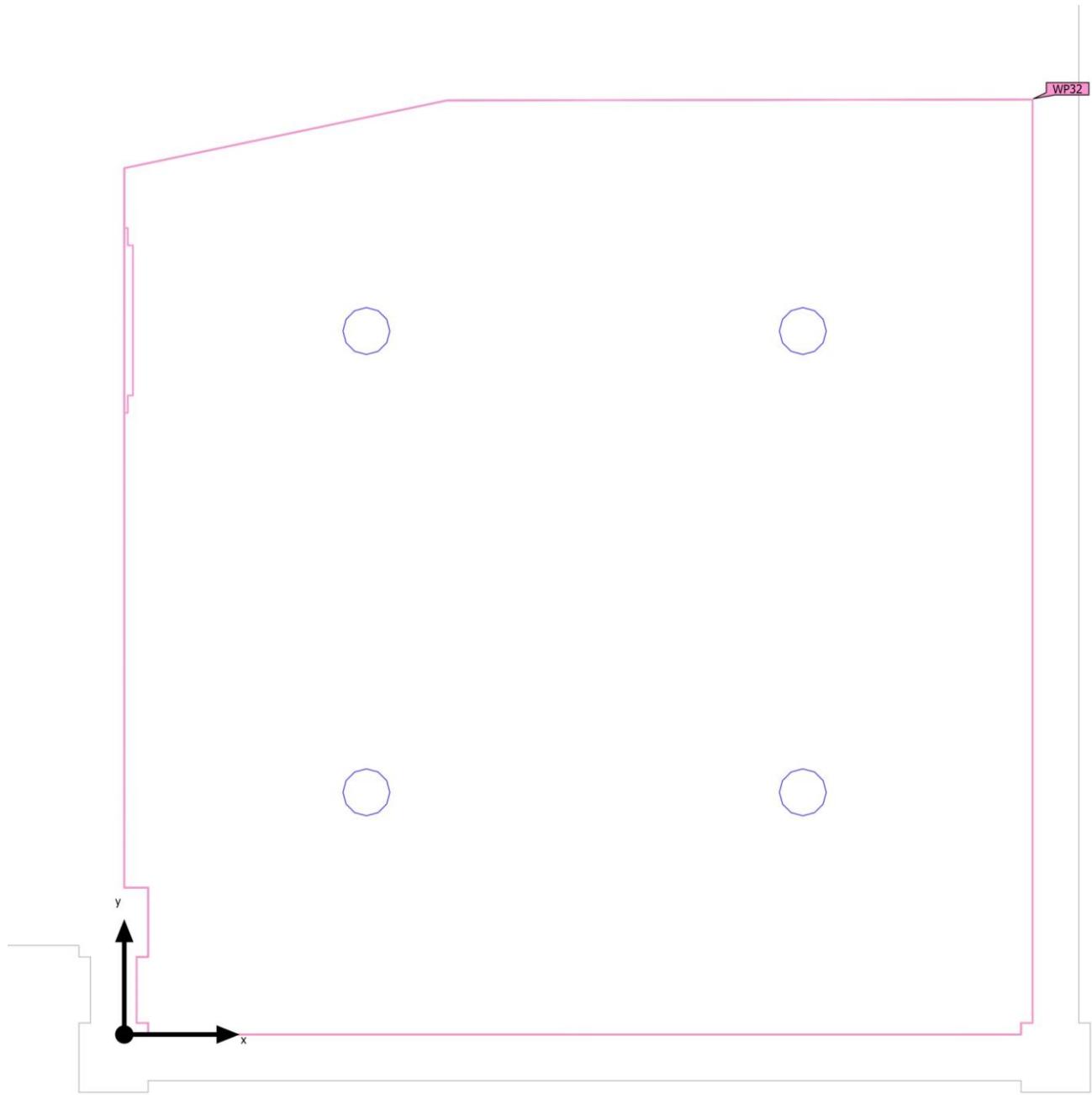
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Bedroom 8 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Bedroom 8 (Light scene 1)

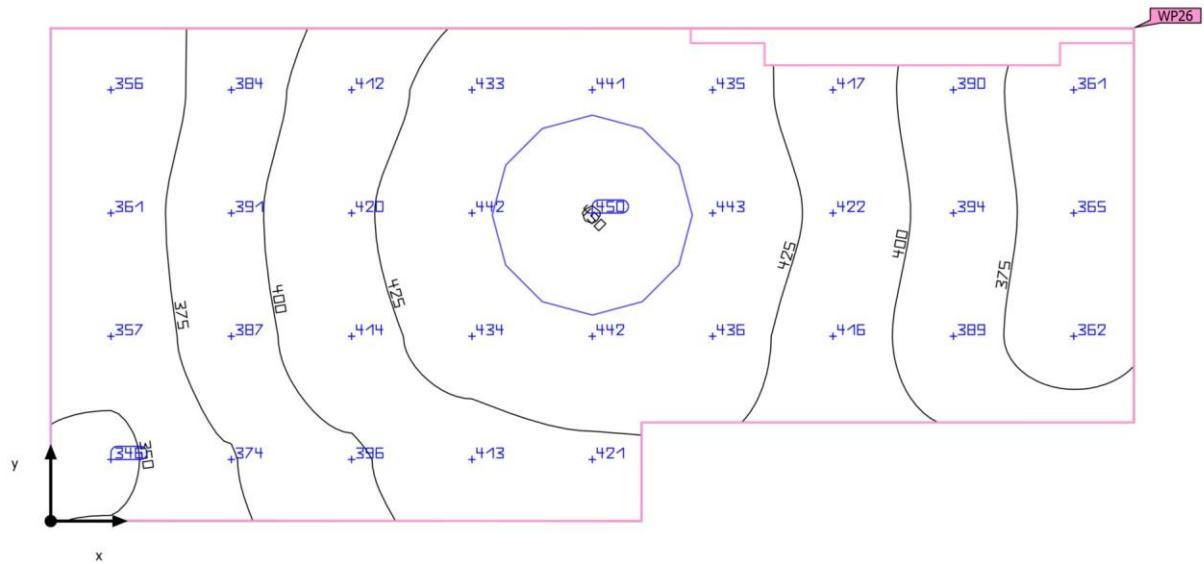
Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Bedroom 8) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	220 lx (≥ 150 lx) 	0.82 lx	405 lx	0.004	0.002	WP32

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Disposal Room (Light scene 1)

Summary

Building 1 · Common Floors · Disposal Room (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	403 lx	$\geq 300 \text{ lx}$	✓	WP26
	g_1	0.86	-	-	WP26
Consumption values	Consumption	4 kWh/a	max. 50 kWh/a	✓	
Room	Lighting power density	42.57 W/m ²	-	-	
		10.56 W/m ² /100 lx	-	-	

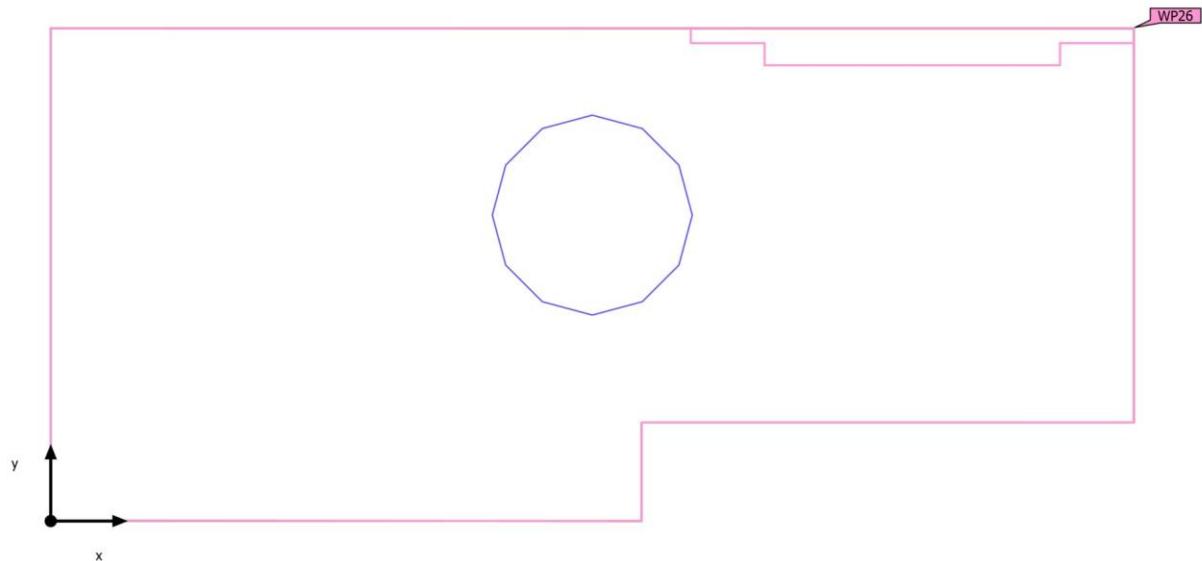
Utilization profile: General areas inside buildings - Store rooms, cold stores, Dispatch packing handling areas

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Disposal Room (Light scene 1)

Calculation objects



Building 1 · Common Floors · Disposal Room (Light scene 1)

Calculation objects

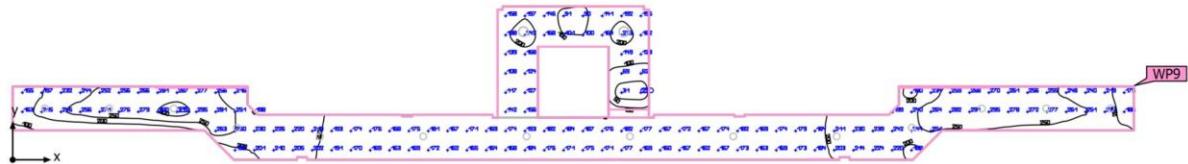
Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Disposal Room) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	403 lx (≥ 300 lx)	346 lx	450 lx	0.86	0.77	WP26

Utilization profile: General areas inside buildings - Store rooms, cold stores, Dispatch packing handling areas

Building 1 · Common Floors · Hallway (Light scene 1)

Summary



Building 1 · Common Floors · Hallway (Light scene 1)

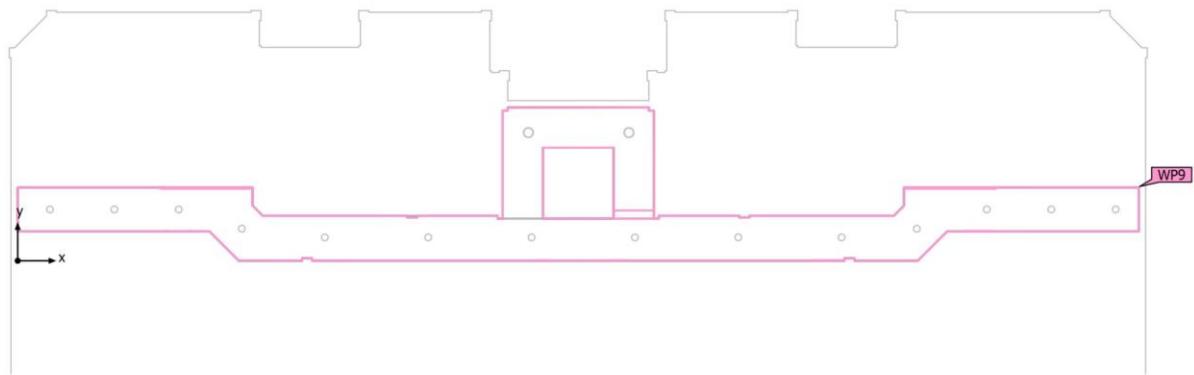
Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	198 lx	$\geq 150 \text{ lx}$	✓	WP9
	g_1	0.14	-	-	
Consumption values	Consumption	0 kWh/a	max. 2000 kWh/a	✓	
Room	Lighting power density	0.00 W/m ²	-	-	
		0.00 W/m ² /100 lx	-	-	

Utilization profile: Traffic zones inside buildings, Circulation areas and corridors

Building 1 · Common Floors · Hallway (Light scene 1)

Calculation objects



Building 1 · Common Floors · Hallway (Light scene 1)

Calculation objects

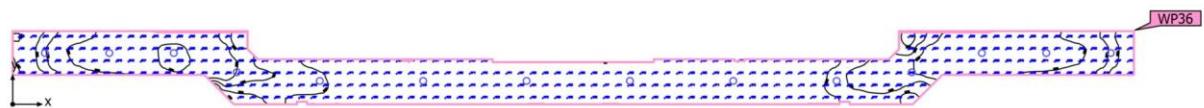
Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Hallway) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	198 lx (≥ 150 lx)	28.6 lx	315 lx	0.14	0.091	WP9

Utilization profile: Traffic zones inside buildings, Circulation areas and corridors

Building 1 · Common Floors · Hallway Only (Light scene 1)

Summary



Building 1 · Common Floors · Hallway Only (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	212 lx	$\geq 150 \text{ lx}$	✓	WP36
	g_1	0.68	-	-	WP36
Consumption values	Consumption	[210 - 330] kWh/a	max. 1600 kWh/a	✓	
Room	Lighting power density	6.59 W/m ²	-	-	
		3.11 W/m ² /100 lx	-	-	

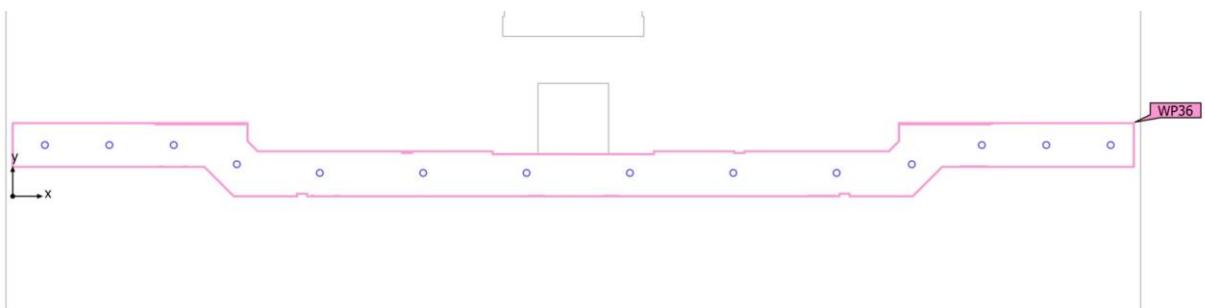
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W
10	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W 16.0 W	2139 lm 1604 lm (75 %)	100.4 lm/W -

Building 1 · Common Floors · Hallway Only (Light scene 1)

Calculation objects



Building 1 · Common Floors · Hallway Only (Light scene 1)

Calculation objects

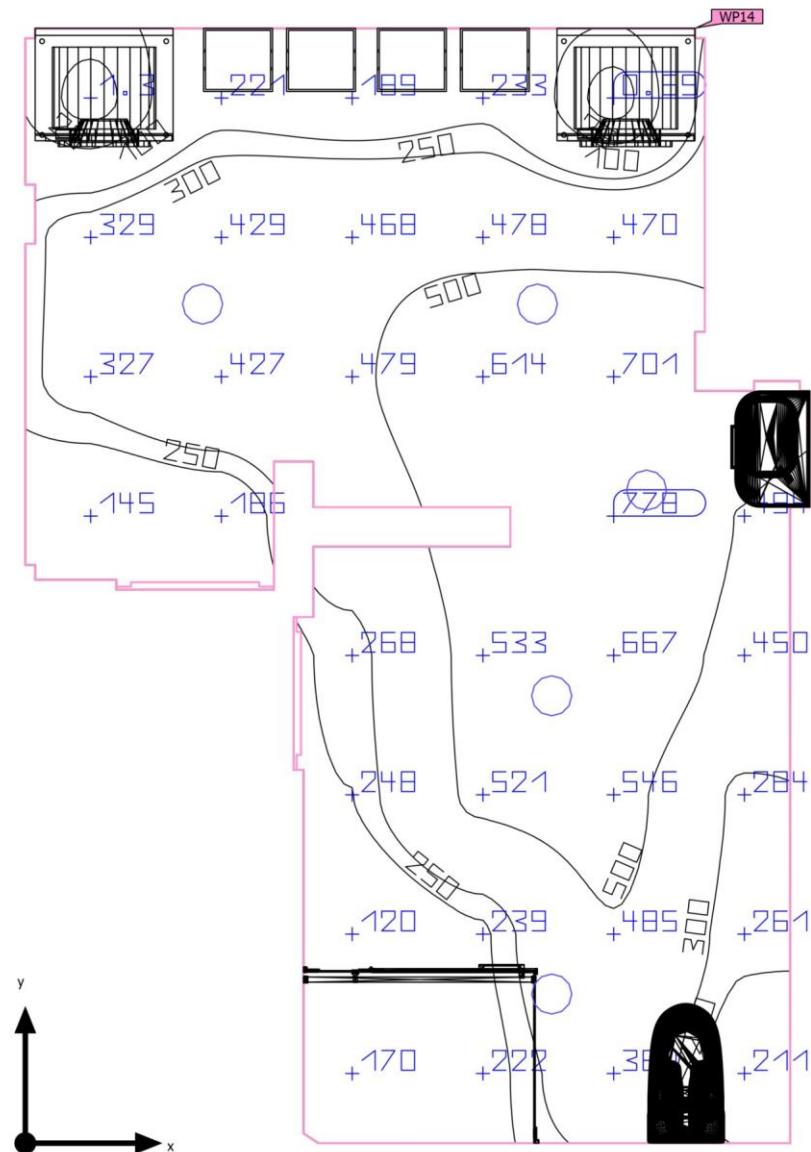
Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Hallway Only) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	212 lx (≥ 150 lx)	145 lx	314 lx	0.68	0.46	WP36

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Laundry + TB 1 (Light scene 1)

Summary



Building 1 · Common Floors · Laundry + TB 1 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	359 lx	$\geq 200 \text{ lx}$	✓	WP14
	g_1	0.002	-	-	
Consumption values	Consumption	[62 - 88] kWh/a	max. 600 kWh/a	✓	
Room	Lighting power density	6.30 W/m ²	-	-	
		1.75 W/m ² /100 lx	-	-	

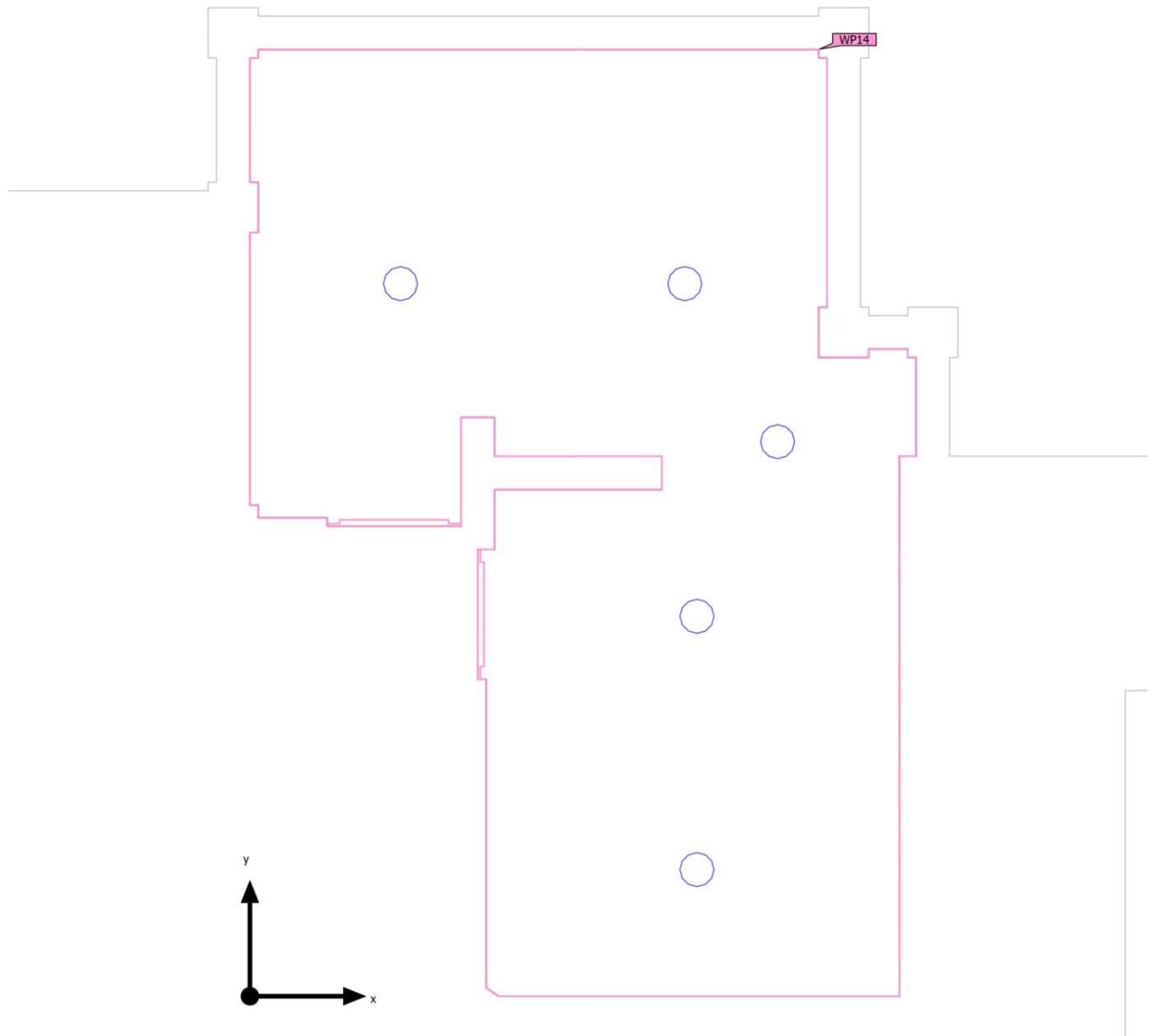
Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Cloakrooms, washrooms, bathrooms, toilets

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
5	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Laundry + TB 1 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Laundry + TB 1 (Light scene 1)

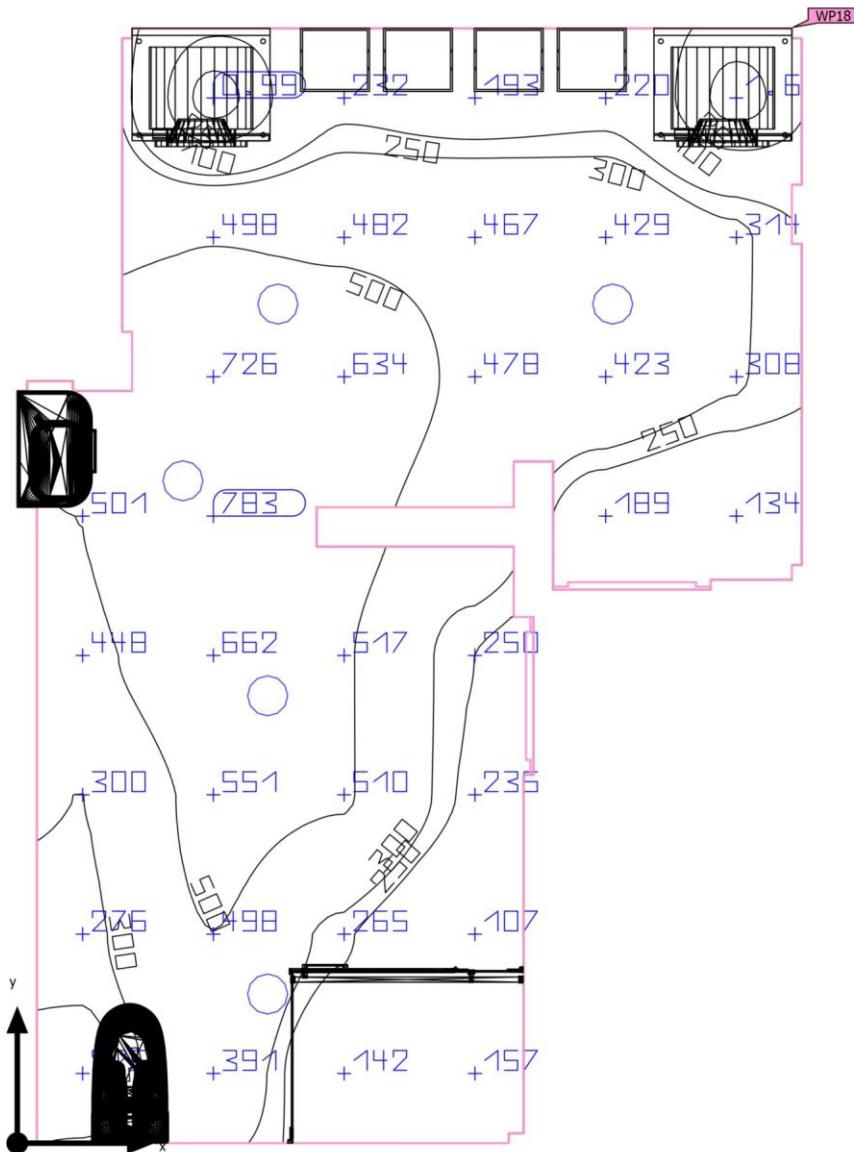
Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1	g_2	Index
Working plane (Laundry + TB 1) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	359 lx (≥ 200 lx)	0.69 lx	778 lx	0.002	0.001	WP14

Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Cloakrooms, washrooms, bathrooms, toilets

Building 1 · Common Floors · Laundry + TB 2 (Light scene 1)

Summary

Building 1 · Common Floors · Laundry + TB 2 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	359 lx	$\geq 200 \text{ lx}$	✓	WP18
	g_1	0.003	-	-	
Consumption values	Consumption	[62 - 88] kWh/a	max. 600 kWh/a	✓	
Room	Lighting power density	6.30 W/m ²	-	-	
		1.76 W/m ² /100 lx	-	-	

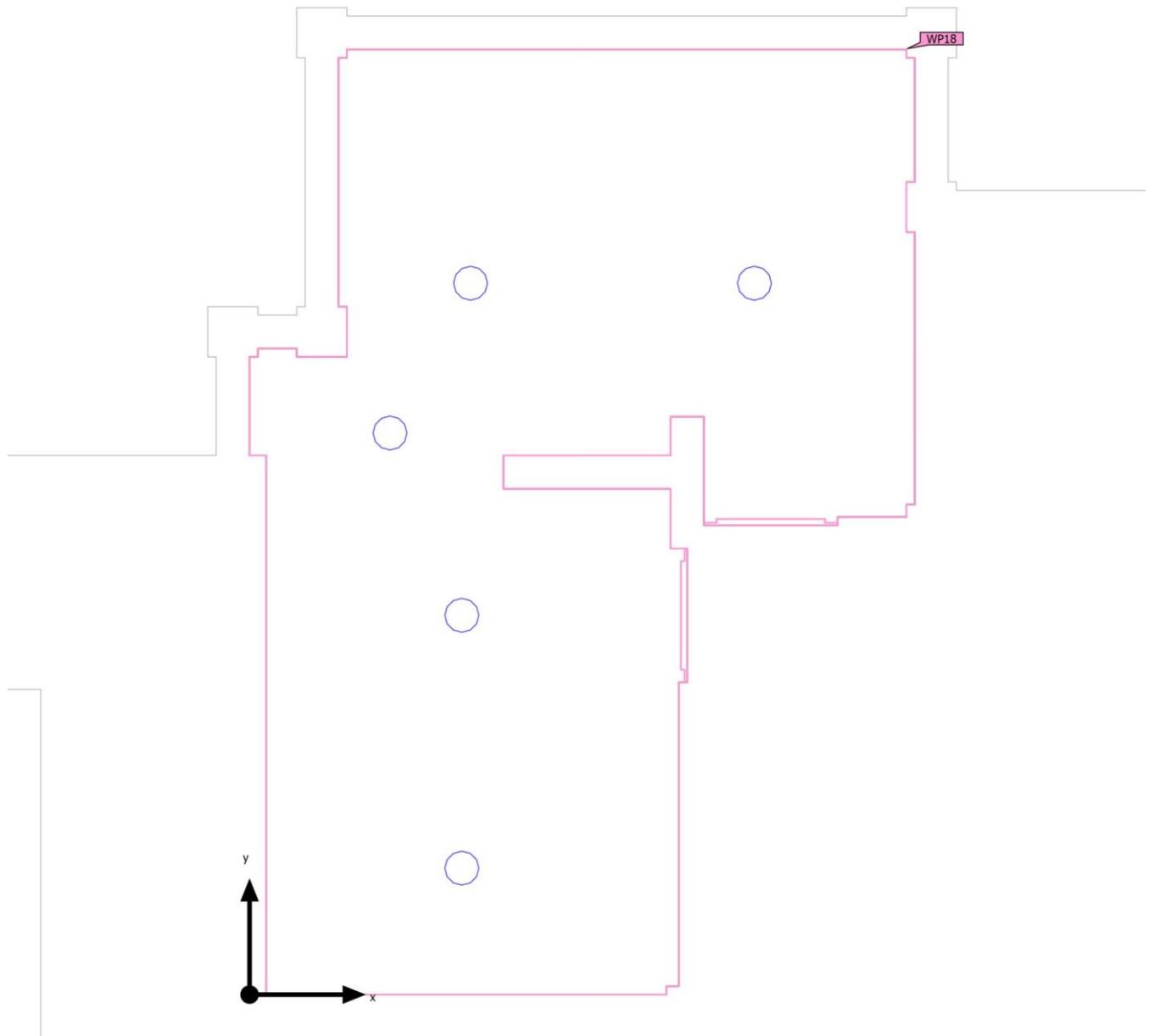
Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Cloakrooms, washrooms, bathrooms, toilets

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
5	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Laundry + TB 2 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Laundry + TB 2 (Light scene 1)

Calculation objects

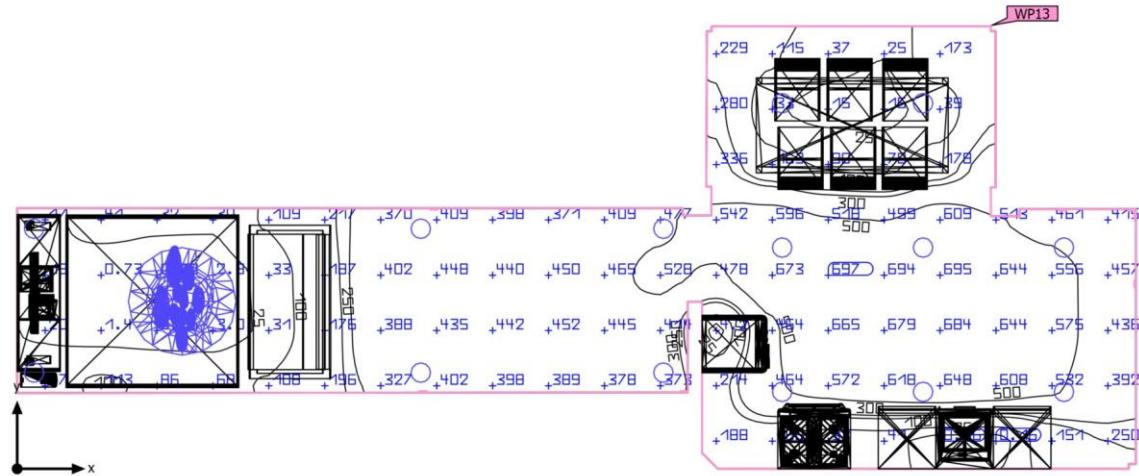
Working planes

Properties	\bar{E} (Target)	E_{\min}	E_{\max}	g_1	g_2	Index
Working plane (Laundry + TB 2) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	359 lx (≥ 200 lx)	0.99 lx	783 lx	0.003	0.001	WP18

Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Cloakrooms, washrooms, bathrooms, toilets

Building 1 · Common Floors · Living + Dining + Kitchen 1 (Light scene 1)

Summary



Building 1 · Common Floors · Living + Dining + Kitchen 1 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	305 lx	$\geq 300 \text{ lx}$	✓	WP13
	g_1	0.001	-	-	WP13
Consumption values	Consumption	[310 - 390] kWh/a	max. 1150 kWh/a	✓	
Room	Lighting power density	11.31 W/m ²	-	-	
		3.71 W/m ² /100 lx	-	-	

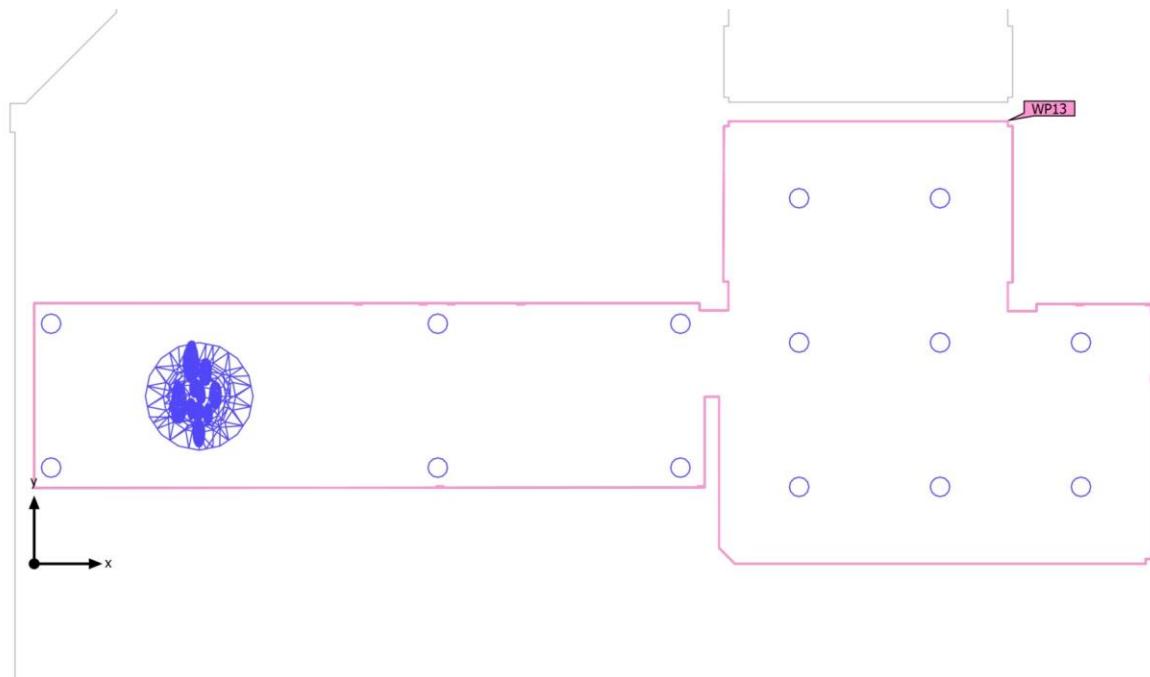
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	Artemide S.p.A.	1366W10A	MERCURY LED C 2700K	58.0 W	2893 lm	49.9 lm/W
14	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Living + Dining + Kitchen 1 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Living + Dining + Kitchen 1 (Light scene 1)

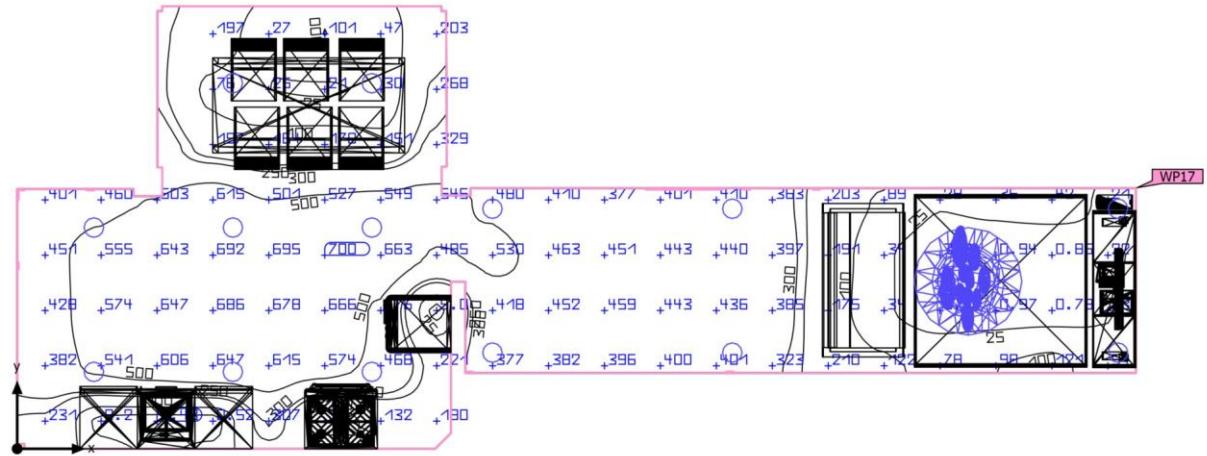
Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1	g_2	Index
Working plane (Living + Dining + Kitchen 1) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	305 lx $(\geq 300 \text{ lx})$ 	0.16 lx	697 lx	0.001	0.000	WP13

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Living + Dining + Kitchen 2 (Light scene 1)

Summary

Building 1 · Common Floors · Living + Dining + Kitchen 2 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	308 lx	$\geq 300 \text{ lx}$	✓	WP17
	g_1	0.001	-	-	
Consumption values	Consumption	[310 - 390] kWh/a	max. 1150 kWh/a	✓	
Room	Lighting power density	11.31 W/m ²	-	-	
		3.67 W/m ² /100 lx	-	-	

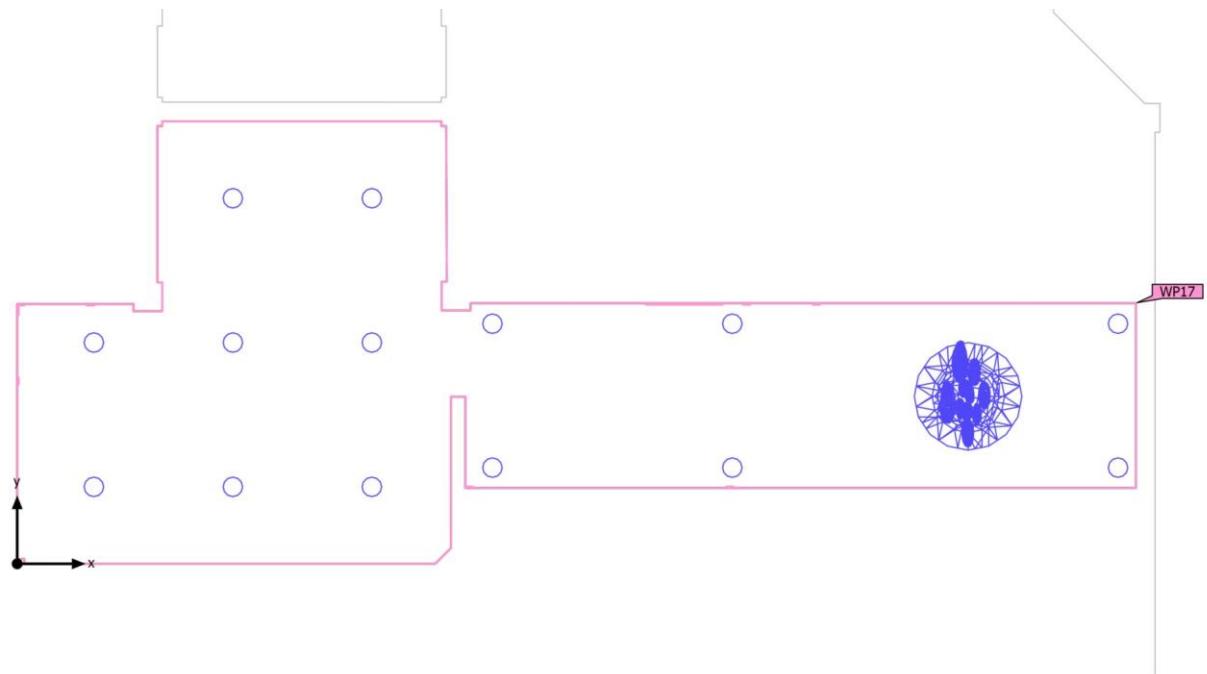
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	Artemide S.p.A.	1366W10A	MERCURY LED C 2700K	58.0 W	2893 lm	49.9 lm/W
14	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Living + Dining + Kitchen 2 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Living + Dining + Kitchen 2 (Light scene 1)

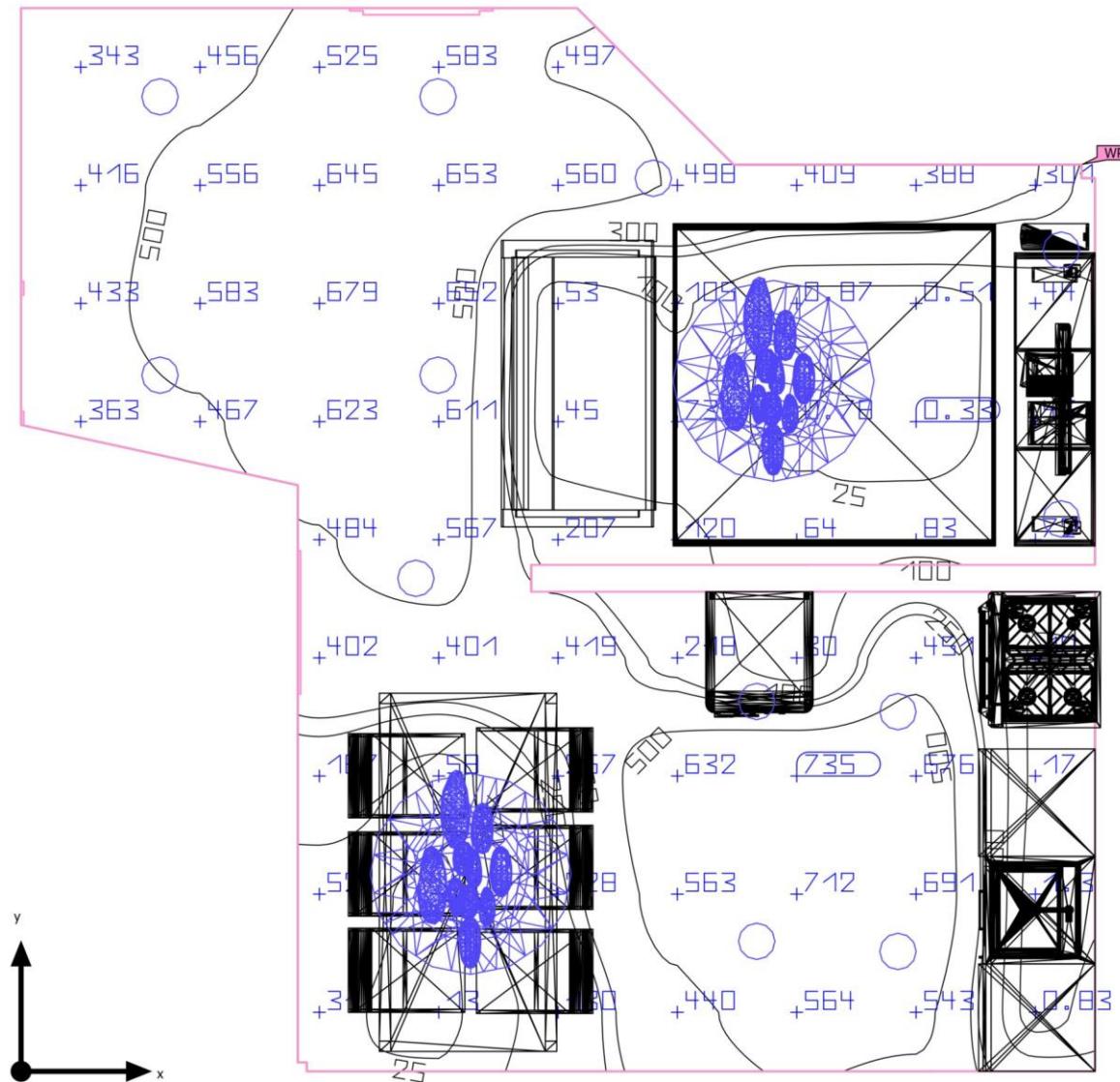
Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Living + Dining + Kitchen 2) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	308 lx (≥ 300 lx)	0.43 lx	700 lx	0.001	0.001	WP17

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Living + Dining + Kitchen 3 (Light scene 1)

Summary

Building 1 · Common Floors · Living + Dining + Kitchen 3 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	324 lx	$\geq 300 \text{ lx}$	✓	WP21
	g_1	0.001	-	-	
Consumption values	Consumption	[260 - 410] kWh/a	max. 1000 kWh/a	✓	
Room	Lighting power density	13.44 W/m ²	-	-	
		4.15 W/m ² /100 lx	-	-	

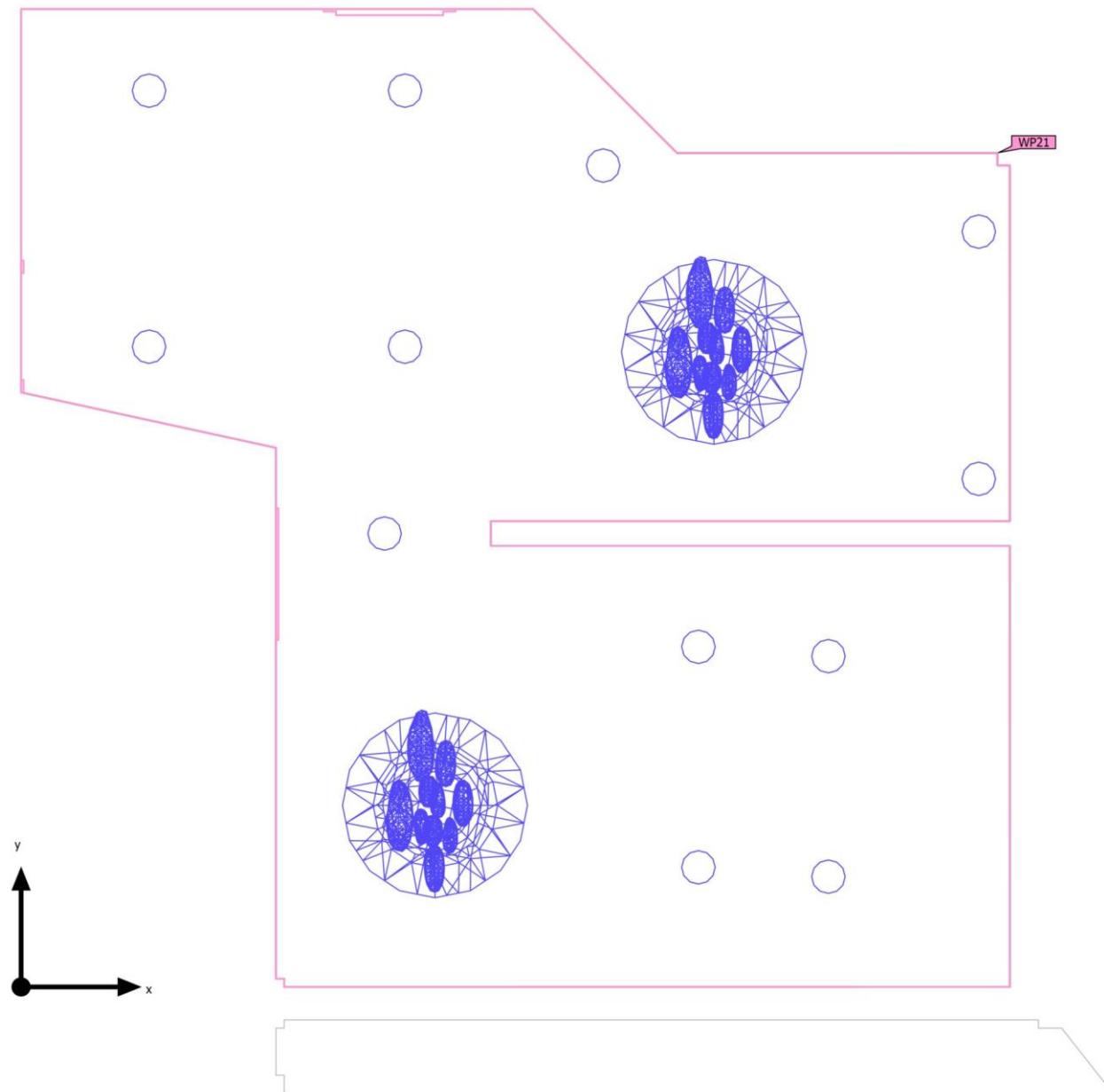
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	Artemide S.p.A.	1366W10A	MERCURY LED C 2700K	58.0 W	2893 lm	49.9 lm/W
12	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Living + Dining + Kitchen 3 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Living + Dining + Kitchen 3 (Light scene 1)

Calculation objects

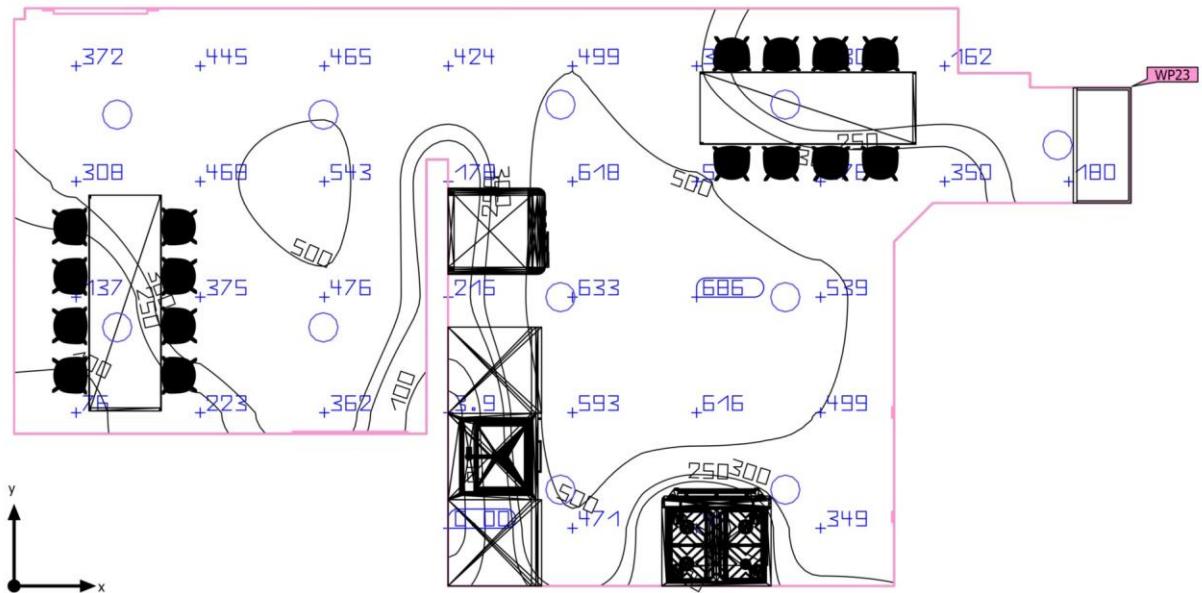
Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Living + Dining + Kitchen 3) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	324 lx (≥ 300 lx) 	0.33 lx	735 lx	0.001	0.000	WP21

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Living + Dining + Kitchen 4 (Light scene 1)

Summary



Building 1 · Common Floors · Living + Dining + Kitchen 4 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	361 lx	$\geq 150 \text{ lx}$	✓	WP23
	g_1	0.00	-	-	WP23
Consumption values	Consumption	[180 - 260] kWh/a	max. 800 kWh/a	✓	
Room	Lighting power density	10.31 W/m ²	-	-	
		2.85 W/m ² /100 lx	-	-	

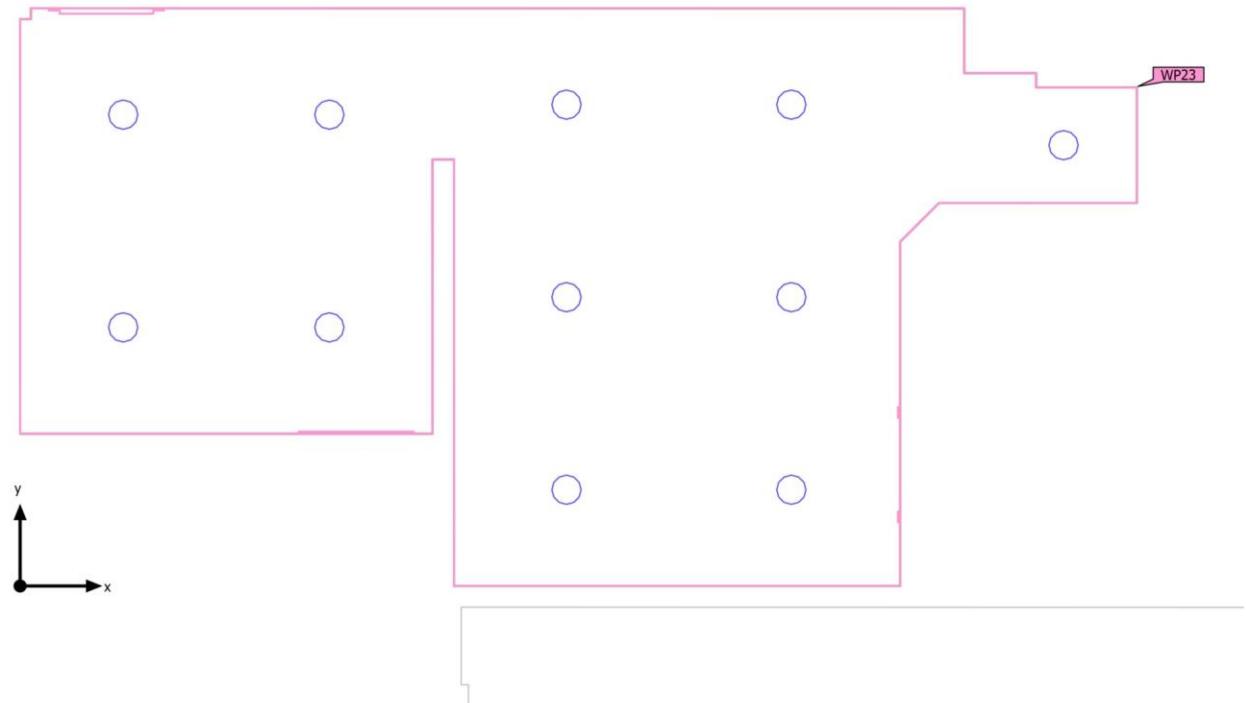
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
11	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Living + Dining + Kitchen 4 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Living + Dining + Kitchen 4 (Light scene 1)

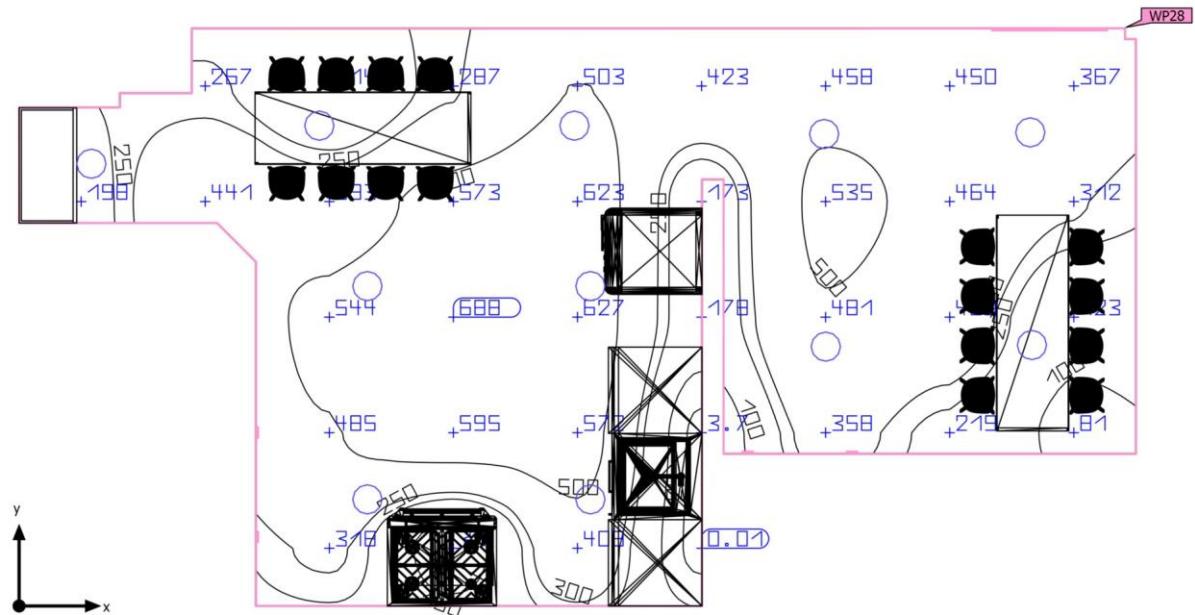
Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Living + Dining + Kitchen 4) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	361 lx (≥ 150 lx) 	0.00 lx	686 lx	0.00	0.00	WP23

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Living + Dining + Kitchen 5 (Light scene 1)

Summary

Building 1 · Common Floors · Living + Dining + Kitchen 5 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	363 lx	$\geq 150 \text{ lx}$	✓	WP28
	g_1	0.000	-	-	WP28
Consumption values	Consumption	[200 - 260] kWh/a	max. 800 kWh/a	✓	
Room	Lighting power density	10.31 W/m ²	-	-	
		2.84 W/m ² /100 lx	-	-	

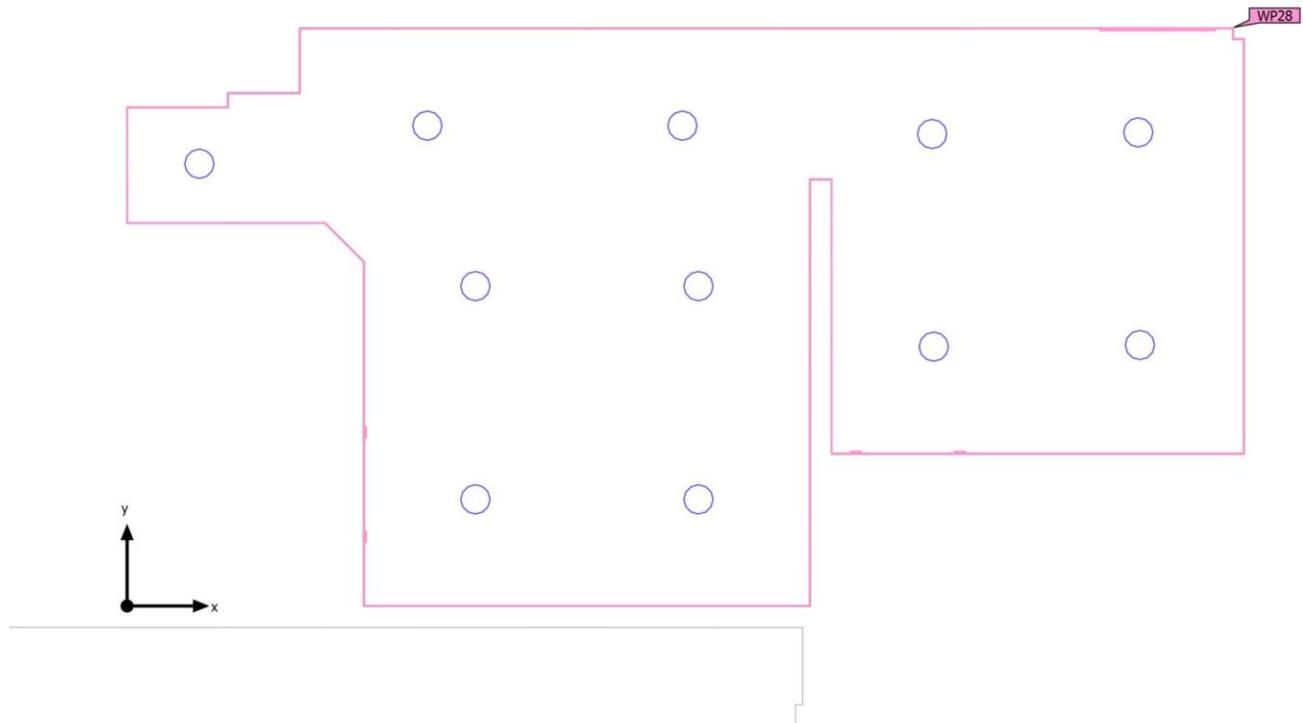
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
11	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Living + Dining + Kitchen 5 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Living + Dining + Kitchen 5 (Light scene 1)

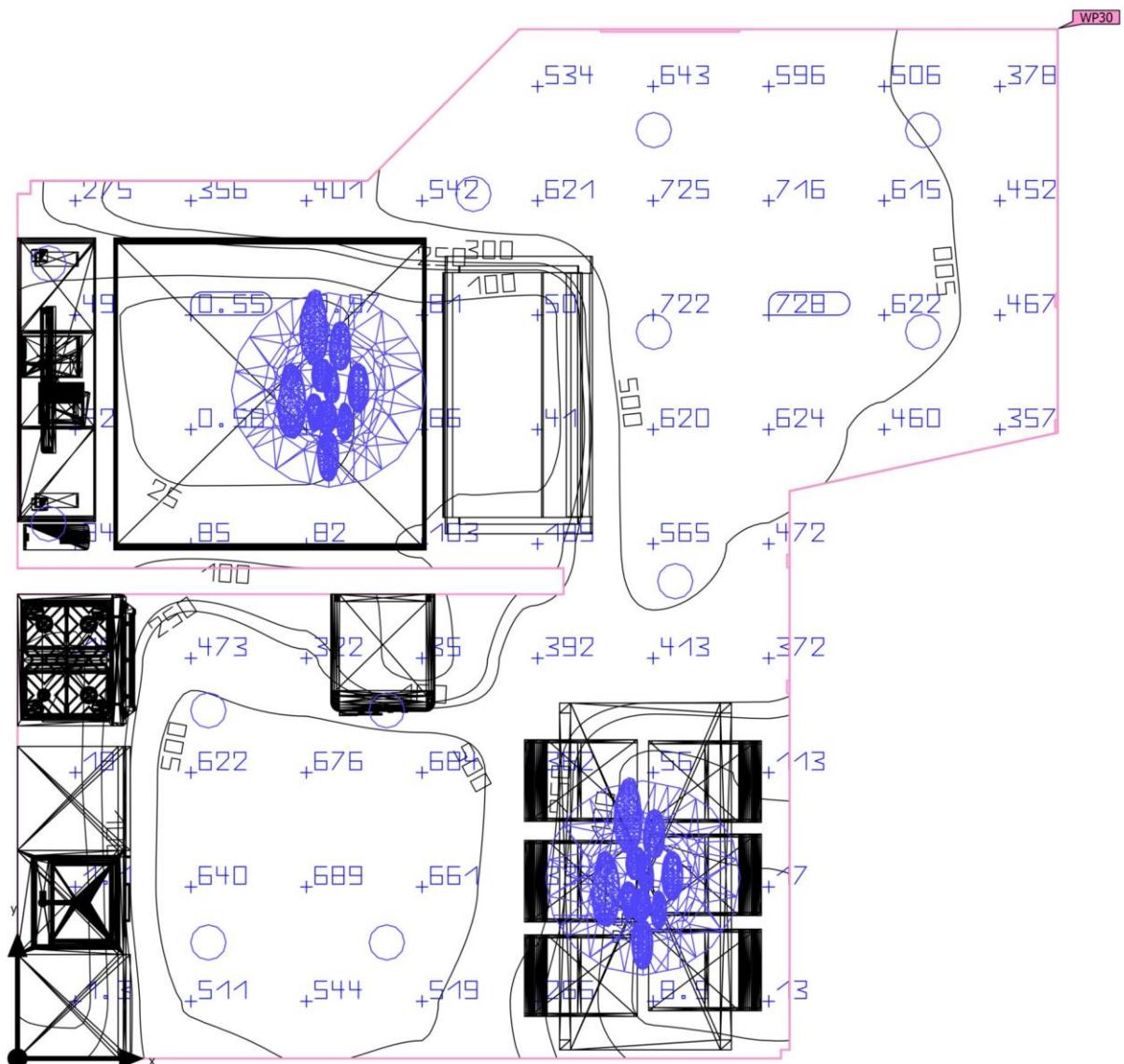
Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Living + Dining + Kitchen 5) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	363 lx (≥ 150 lx)	0.009 lx	688 lx	0.000	0.000	WP28

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · Living + Dining+ Kitchen 6 (Light scene 1)

Summary

Building 1 · Common Floors · Living + Dining+ Kitchen 6 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	338 lx	$\geq 300 \text{ lx}$	✓	WP30
	g_1	0.002	-	-	WP30
Consumption values	Consumption	[260 - 410] kWh/a	max. 1000 kWh/a	✓	
Room	Lighting power density	13.44 W/m ²	-	-	
		3.97 W/m ² /100 lx	-	-	

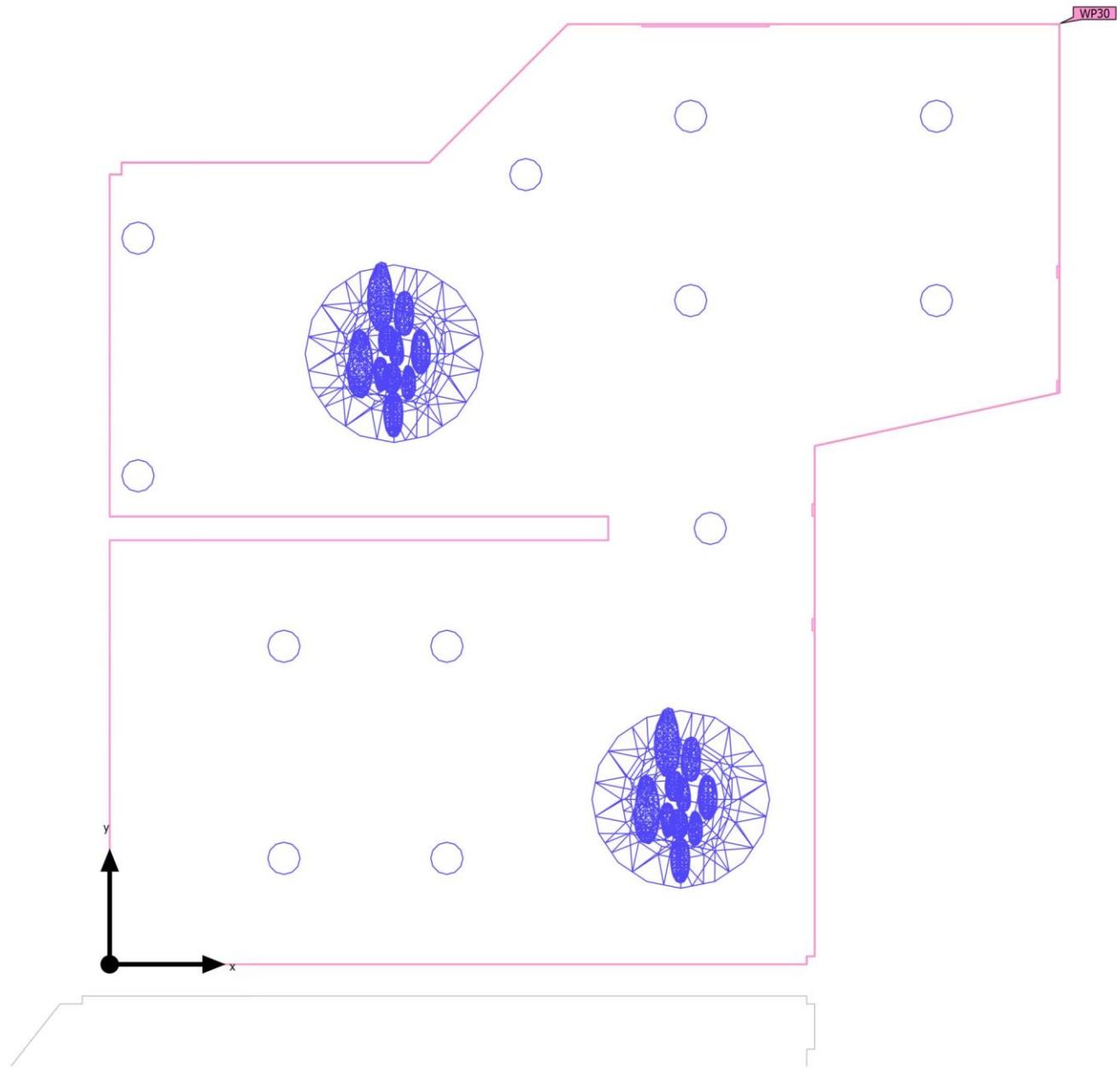
Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	Artemide S.p.A.	1366W10A	MERCURY LED C 2700K	58.0 W	2893 lm	49.9 lm/W
12	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · Living + Dining+ Kitchen 6 (Light scene 1)

Calculation objects



Building 1 · Common Floors · Living + Dining+ Kitchen 6 (Light scene 1)

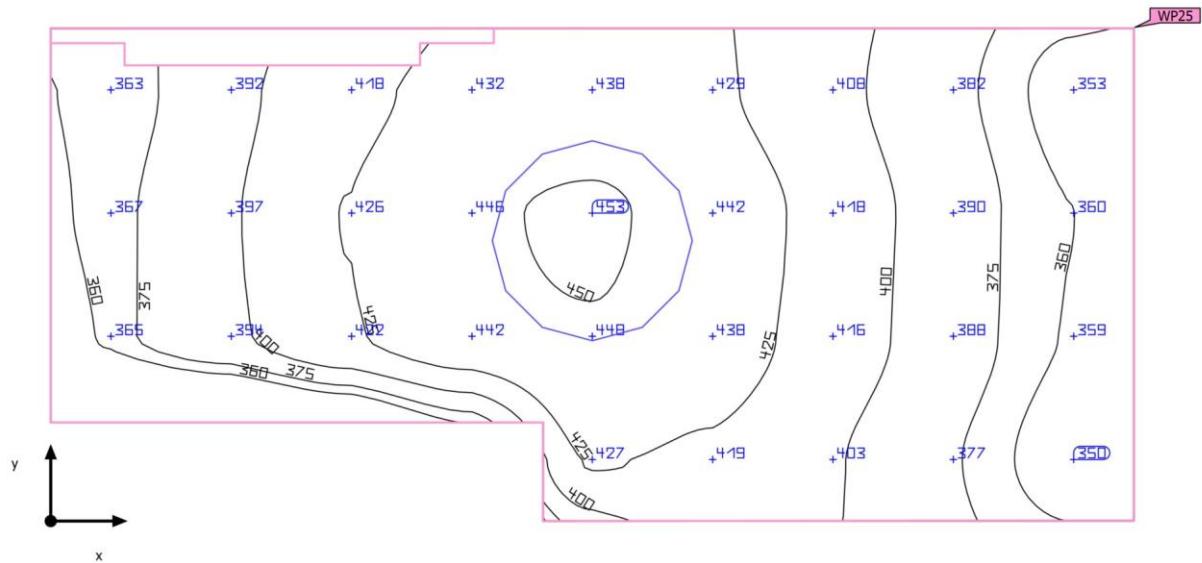
Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Living + Dining+ Kitchen 6) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	338 lx (≥ 300 lx) 	0.55 lx	728 lx	0.002	0.001	WP30

Utilization profile: General areas inside buildings - Storage rack areas, Gangways: manned

Building 1 · Common Floors · PB Room (Light scene 1)

Summary

Building 1 · Common Floors · PB Room (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	405 lx	$\geq 200 \text{ lx}$	✓	WP25
	g_1	0.86	-	-	
Consumption values	Consumption	4 kWh/a	max. 50 kWh/a	✓	
Room	Lighting power density	42.57 W/m ²	-	-	
		10.51 W/m ² /100 lx	-	-	

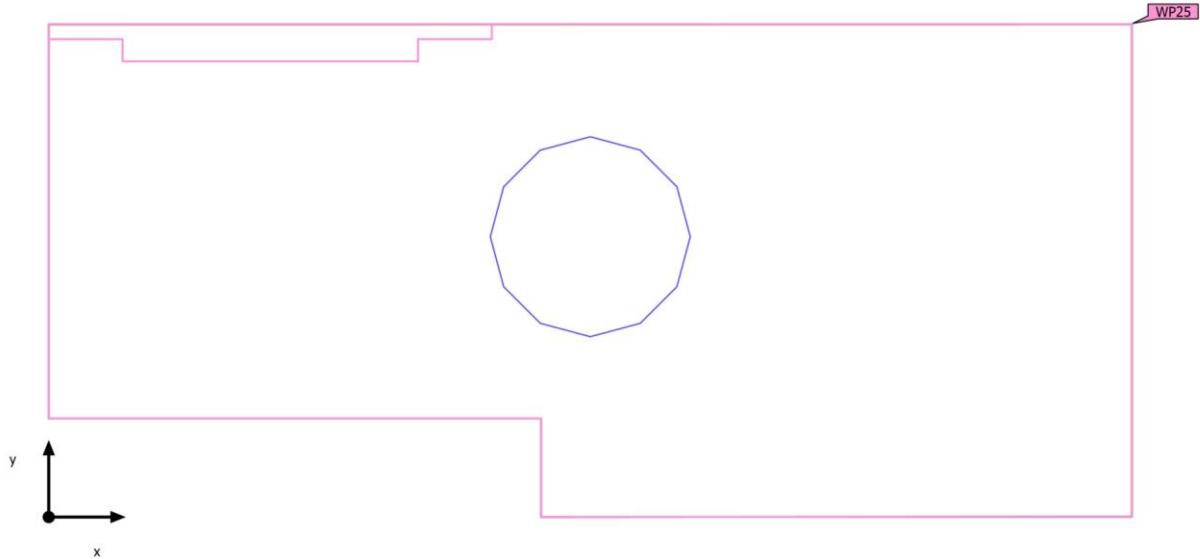
Utilization profile: General areas inside buildings - Control rooms, Plant rooms, switchgear rooms

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSWM8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · PB Room (Light scene 1)

Calculation objects



Building 1 · Common Floors · PB Room (Light scene 1)

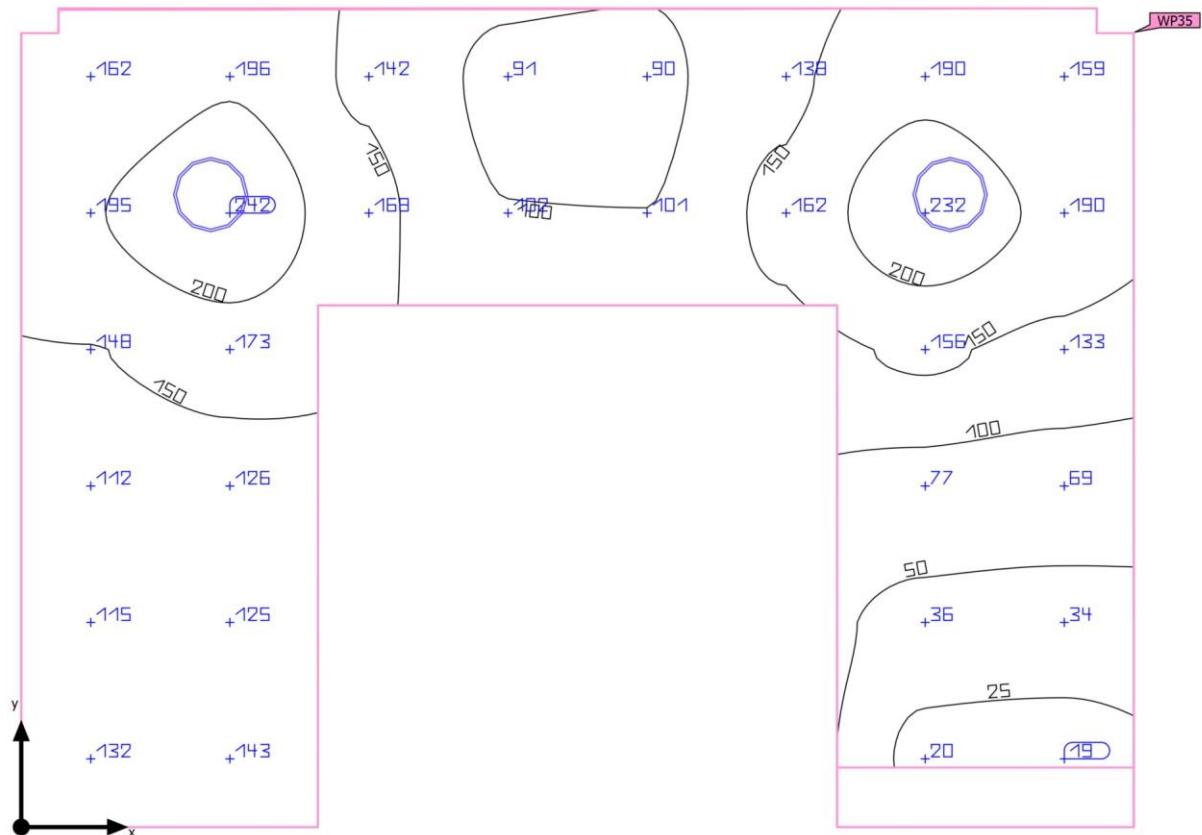
Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (PB Room) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	405 lx (≥ 200 lx)	350 lx	453 lx	0.86	0.77	WP25

Utilization profile: General areas inside buildings - Control rooms, Plant rooms, switchgear rooms

Building 1 · Common Floors · Stairs CF to GF (Light scene 1)

Summary

Building 1 · Common Floors · Stairs CF to GF (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	131 lx	$\geq 100 \text{ lx}$	✓	WP35
	g_1	0.14	-	-	
Consumption values	Consumption	33 kWh/a	max. 400 kWh/a	✓	
Room	Lighting power density	2.87 W/m ²	-	-	
		2.20 W/m ² /100 lx	-	-	

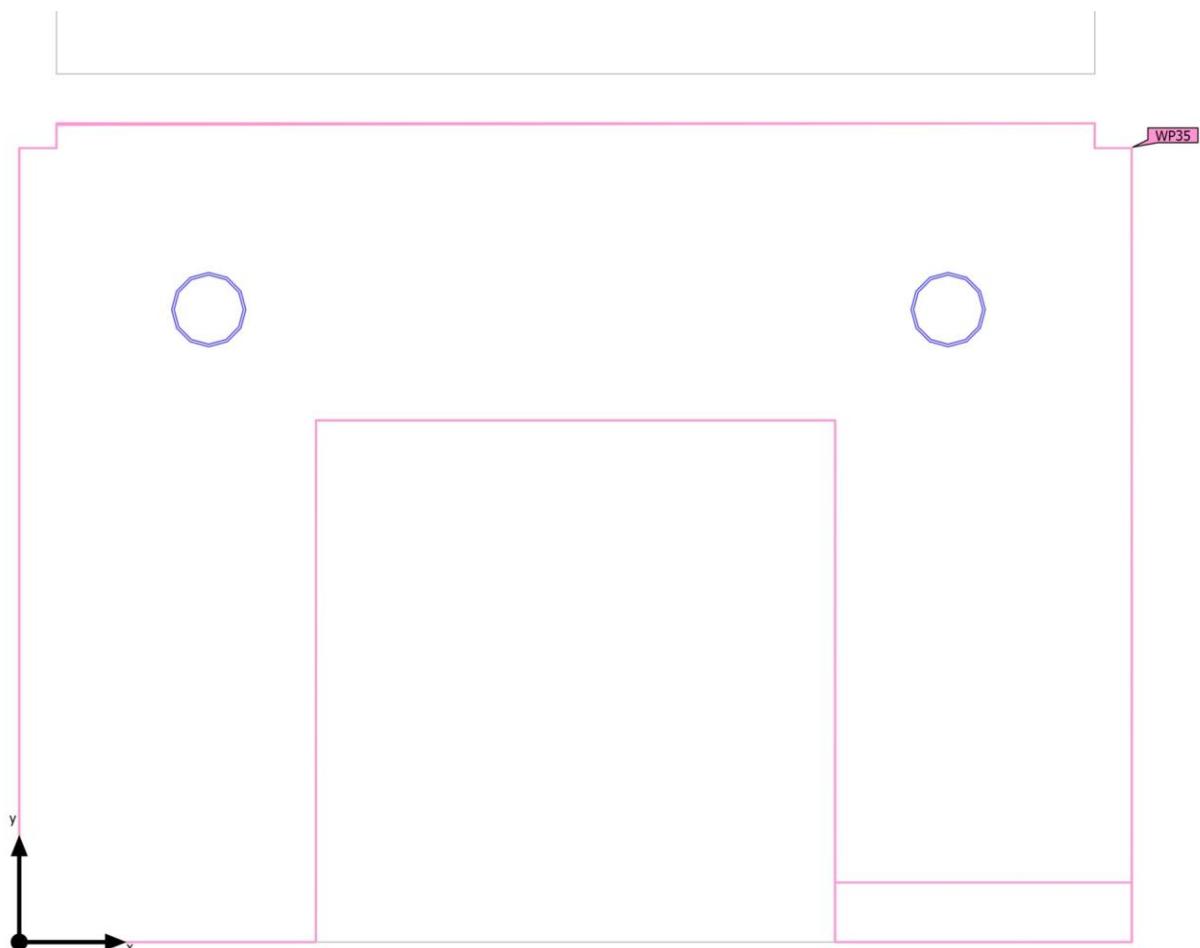
Utilization profile: Traffic zones inside buildings, Stairs, escalators, travelators

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	Aura Light	465304	Alistair CE 15W 1400 On/Off 840	15.0 W	1421 lm	94.7 lm/W

Building 1 · Common Floors · Stairs CF to GF (Light scene 1)

Calculation objects



Building 1 · Common Floors · Stairs CF to GF (Light scene 1)

Calculation objects

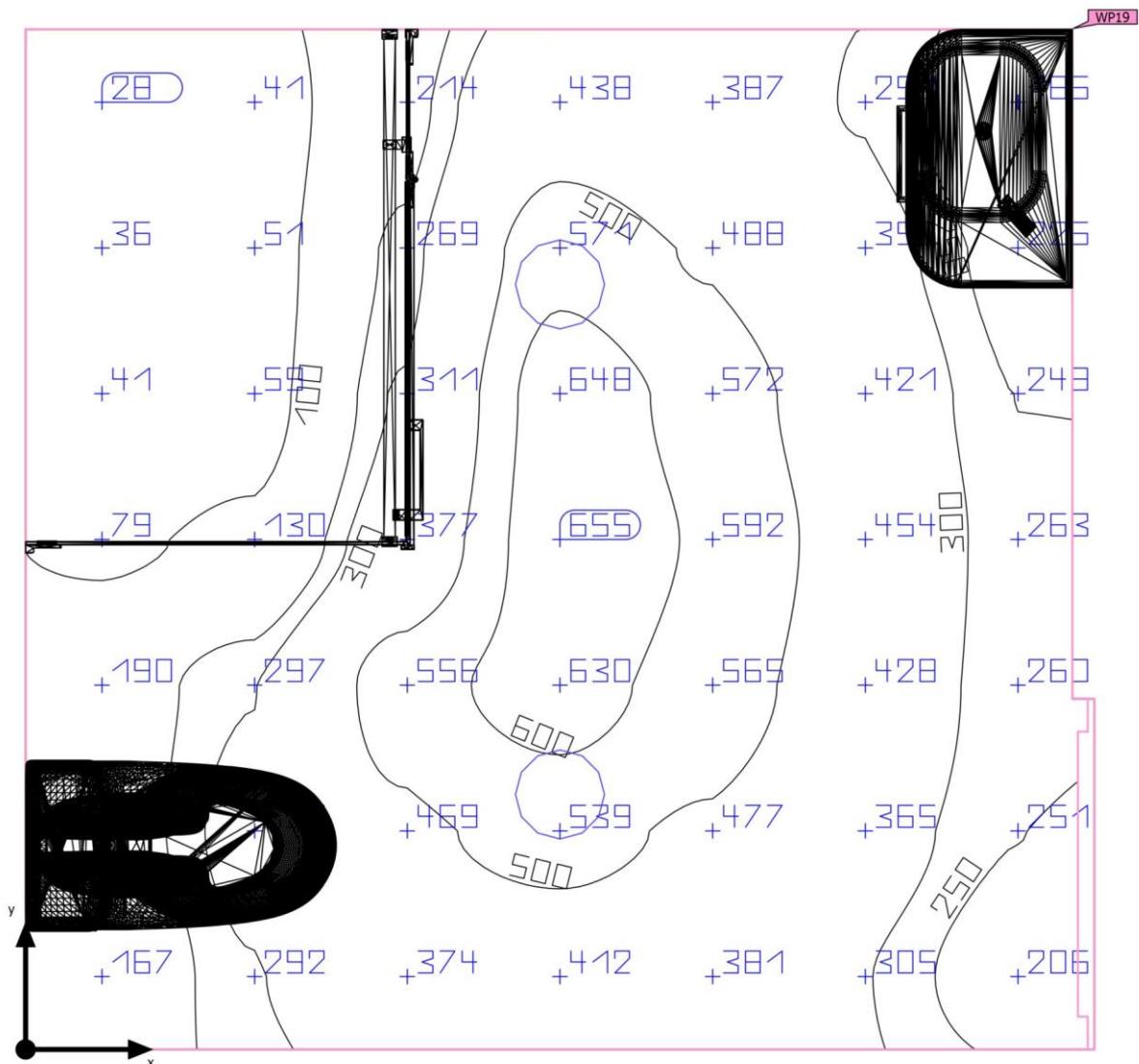
Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (Stairs CF to GF) Perpendicular illuminance Height: 0.000 m, Wall zone: 0.000 m	131 lx (≥ 100 lx)	18.5 lx	242 lx	0.14	0.076	WP35

Utilization profile: Traffic zones inside buildings, Stairs, escalators, travelators

Building 1 · Common Floors · TB 1 (Light scene 1)

Summary



Building 1 · Common Floors · TB 1 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	329 lx	$\geq 200 \text{ lx}$	✓	WP19
	g_1	0.085	-	-	WP19
Consumption values	Consumption	[29 - 35] kWh/a	max. 200 kWh/a	✓	
Room	Lighting power density	7.61 W/m ²	-	-	
		2.31 W/m ² /100 lx	-	-	

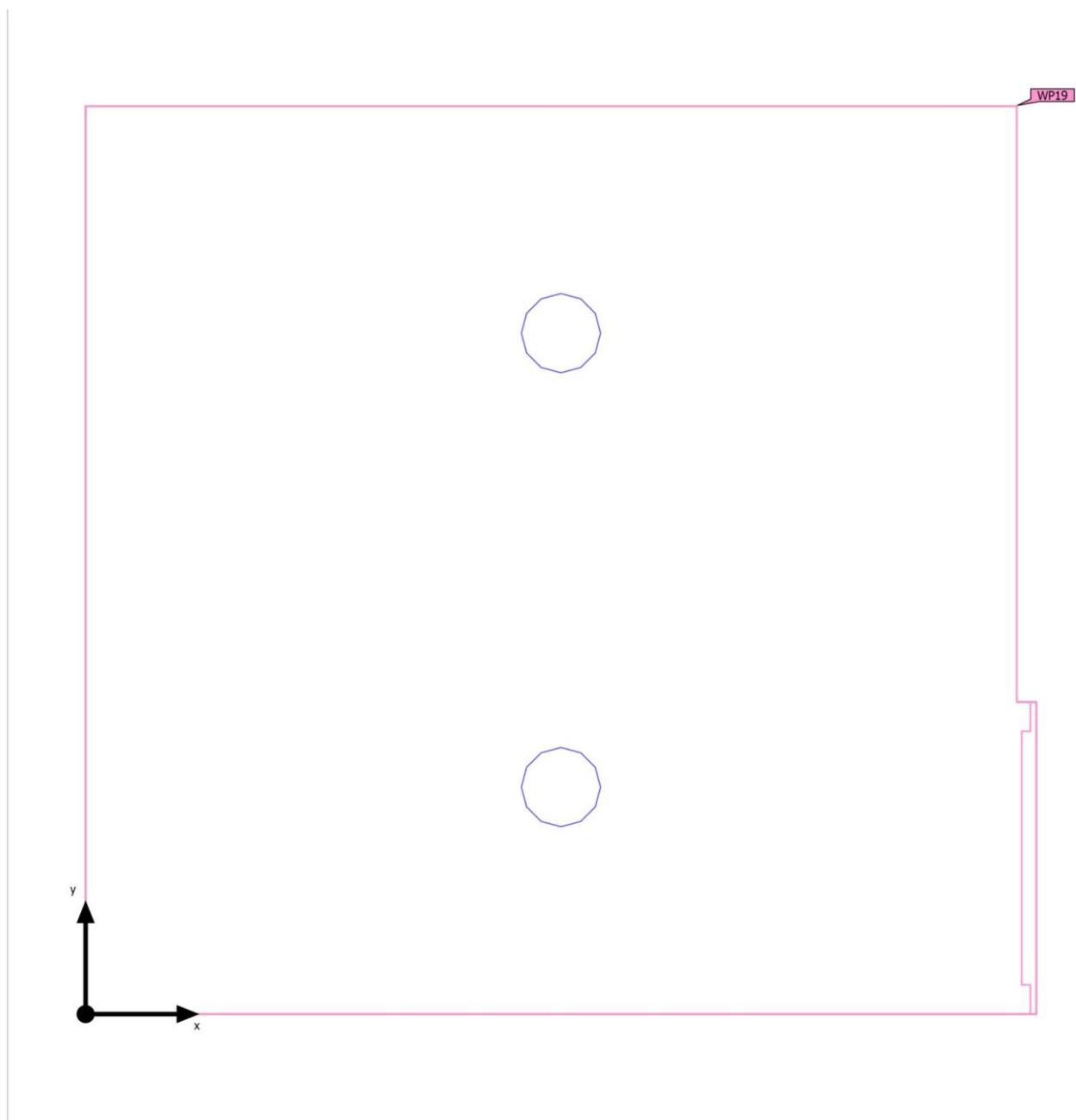
Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Cloakrooms, washrooms, bathrooms, toilets

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · TB 1 (Light scene 1)

Calculation objects



Building 1 · Common Floors · TB 1 (Light scene 1)

Calculation objects

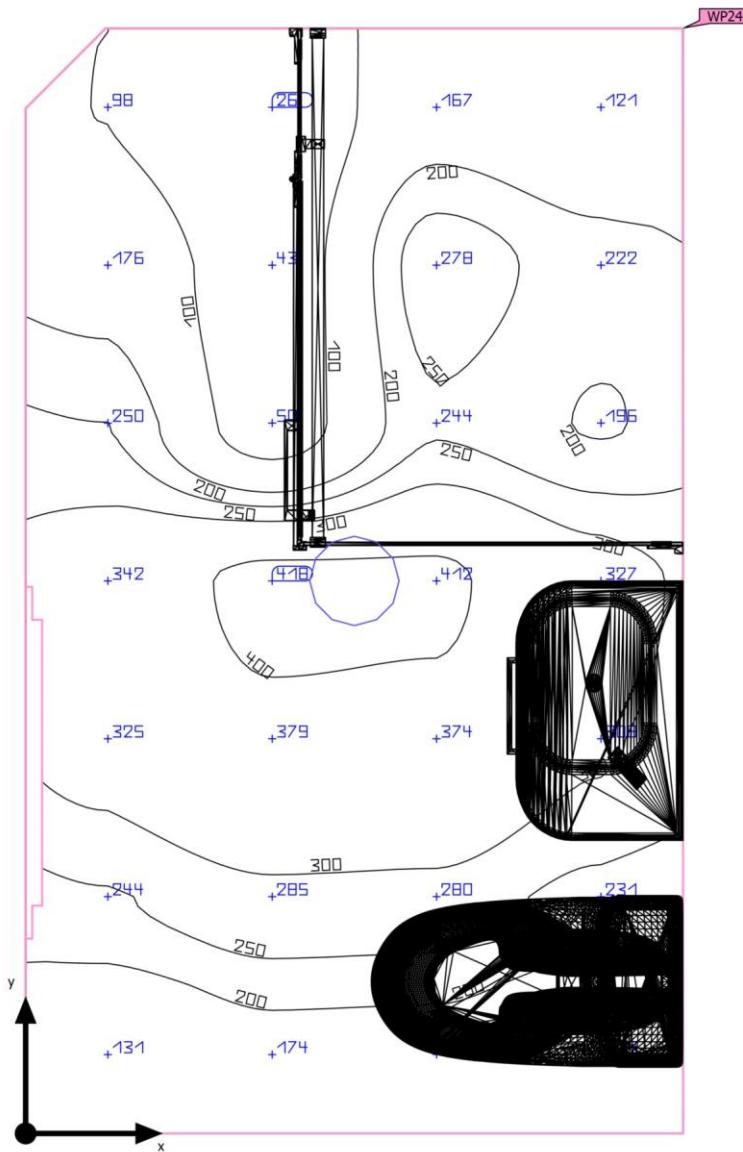
Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (TB 1) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	329 lx (≥ 200 lx) 	28.0 lx	655 lx	0.085	0.043	WP19

Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Cloakrooms, washrooms, bathrooms, toilets

Building 1 · Common Floors · TB 2 (Light scene 1)

Summary



Building 1 · Common Floors · TB 2 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	228 lx	$\geq 200 \text{ lx}$	✓	WP24
	g_1	0.11	-	-	
Consumption values	Consumption	[11 - 18] kWh/a	max. 150 kWh/a	✓	
Room	Lighting power density	5.69 W/m ²	-	-	
		2.49 W/m ² /100 lx	-	-	

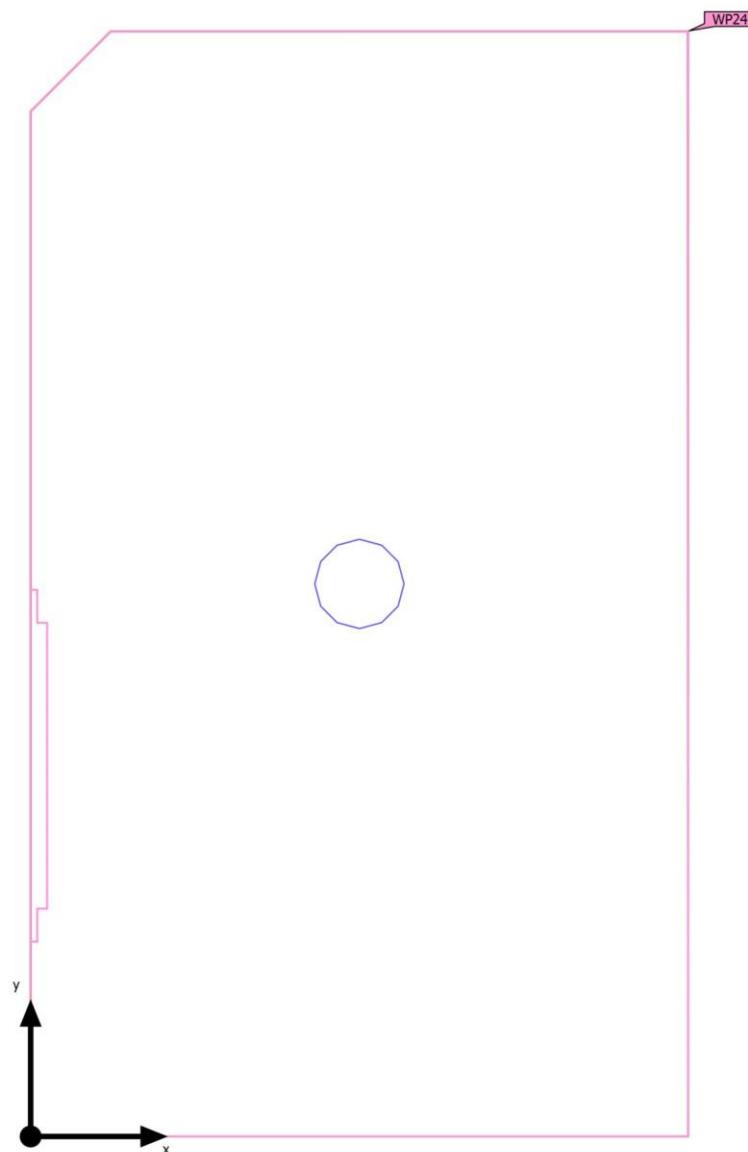
Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Cloakrooms, washrooms, bathrooms, toilets

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · TB 2 (Light scene 1)

Calculation objects



Building 1 · Common Floors · TB 2 (Light scene 1)

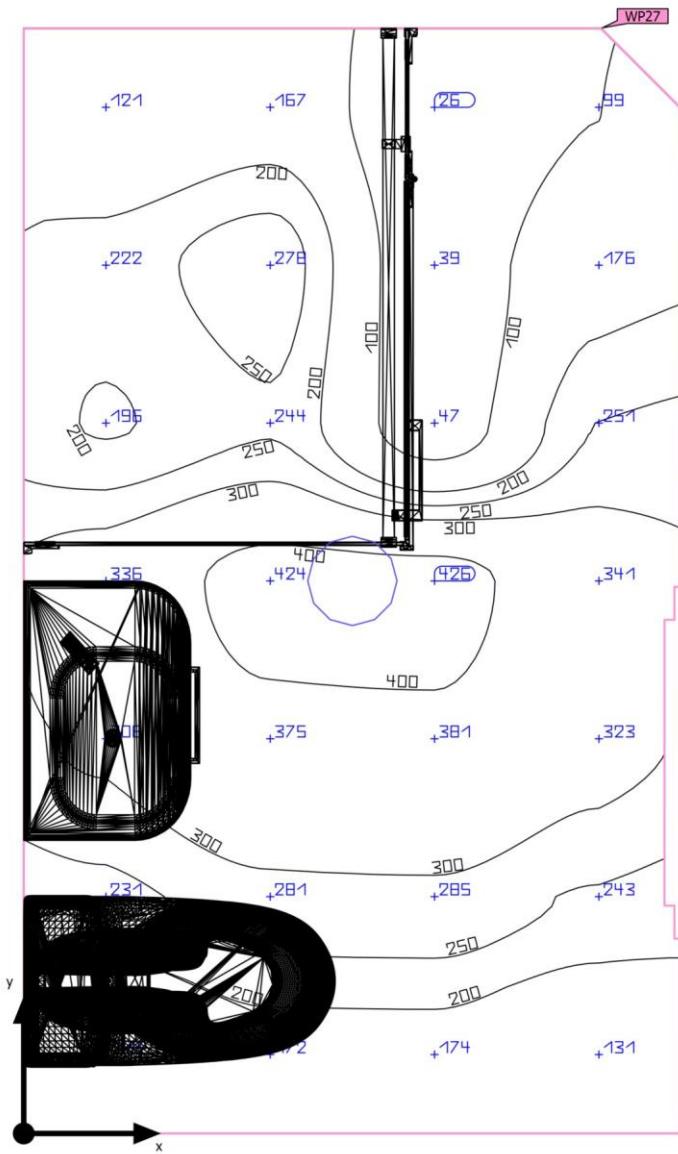
Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (TB 2) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	228 lx (≥ 200 lx)	25.6 lx	418 lx	0.11	0.061	WP24

Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Cloakrooms, washrooms, bathrooms, toilets

Building 1 · Common Floors · TB 3 (Light scene 1)

Summary

Building 1 · Common Floors · TB 3 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	229 lx	$\geq 200 \text{ lx}$	✓	WP27
	g_1	0.11	-	-	WP27
Consumption values	Consumption	[11 - 18] kWh/a	max. 150 kWh/a	✓	
Room	Lighting power density	5.69 W/m ²	-	-	
		2.48 W/m ² /100 lx	-	-	

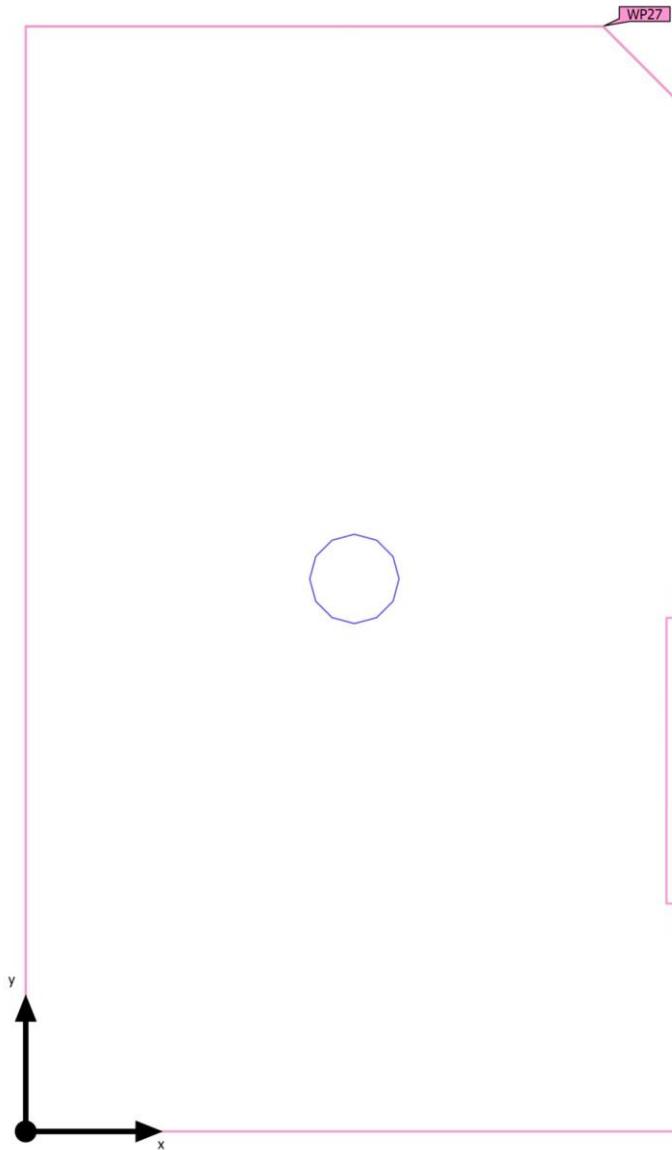
Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Cloakrooms, washrooms, bathrooms, toilets

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · TB 3 (Light scene 1)

Calculation objects



Building 1 · Common Floors · TB 3 (Light scene 1)

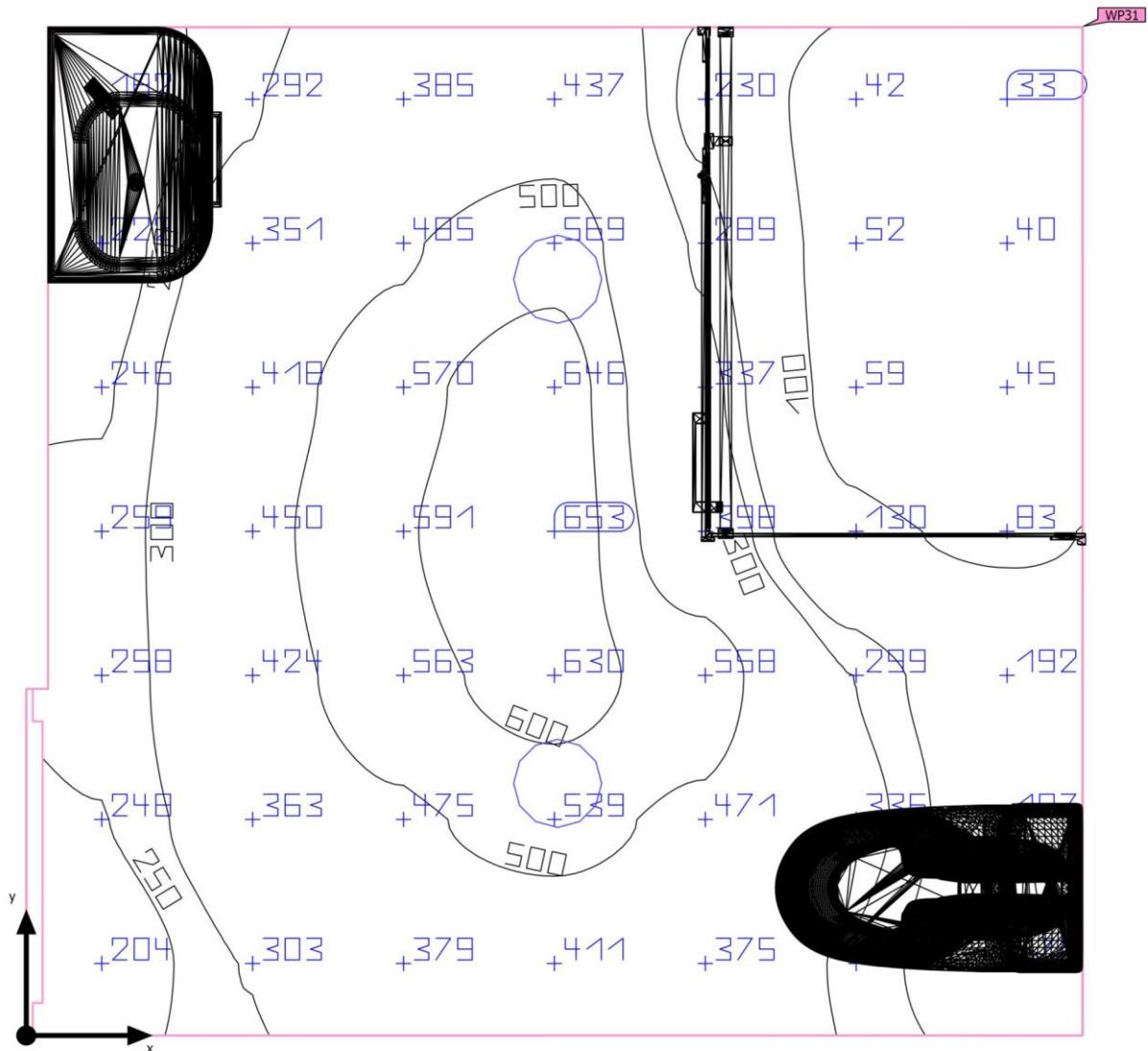
Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{\min}	E_{\max}	g_1	g_2	Index
Working plane (TB 3) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	229 lx $(\geq 200 \text{ lx})$	25.7 lx	426 lx	0.11	0.060	WP27

Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Cloakrooms, washrooms, bathrooms, toilets

Building 1 · Common Floors · TB 4 (Light scene 1)

Summary

Building 1 · Common Floors · TB 4 (Light scene 1)

Summary**Results**

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	330 lx	$\geq 200 \text{ lx}$	✓	WP31
	g_1	0.10	-	-	WP31
Consumption values	Consumption	[29 - 35] kWh/a	max. 200 kWh/a	✓	
Room	Lighting power density	7.61 W/m ²	-	-	
		2.31 W/m ² /100 lx	-	-	

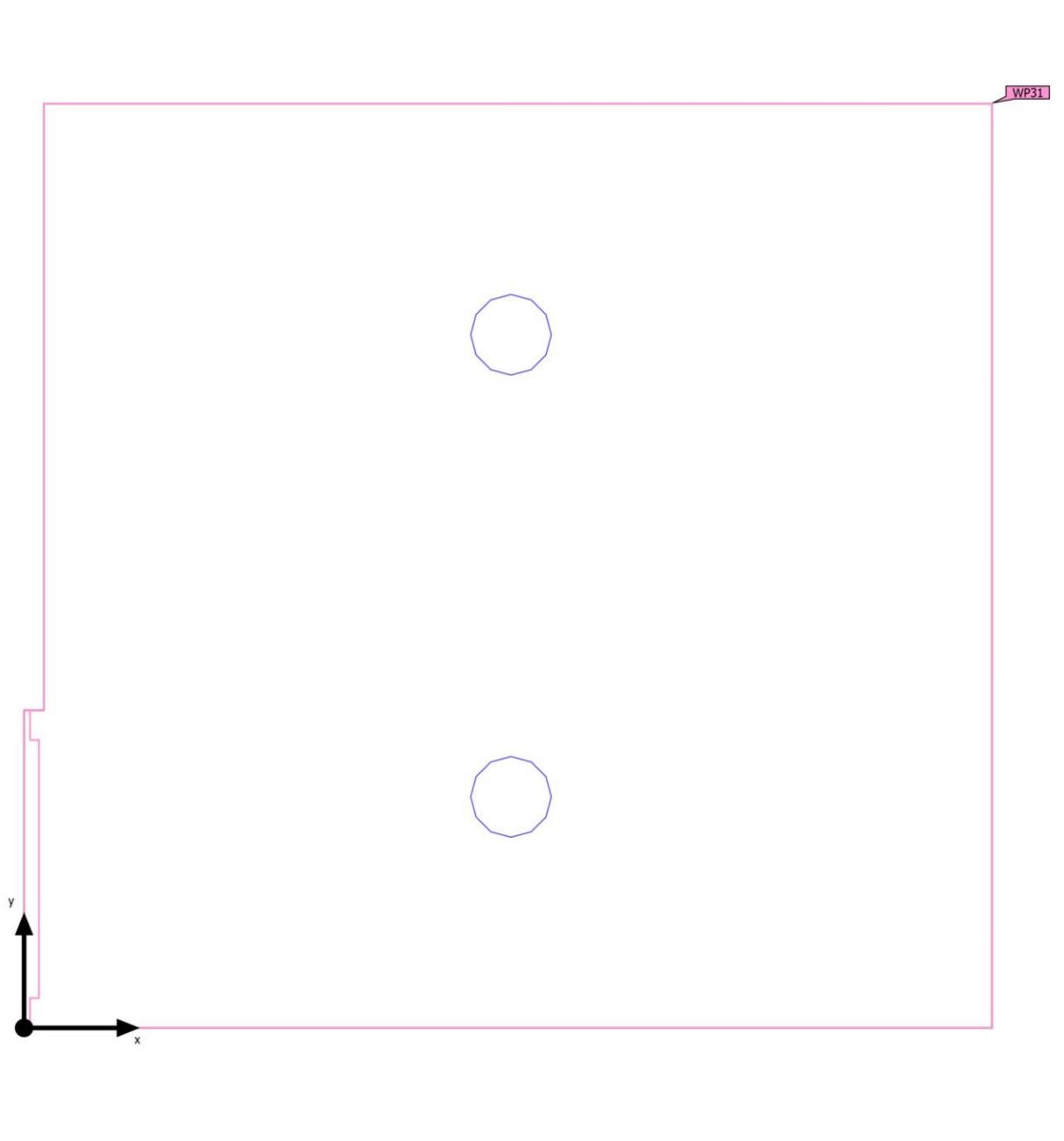
Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Cloakrooms, washrooms, bathrooms, toilets

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	Cooper Lighting	LSR8B20D 010 EC8B2083 0 8LBW0MW	LSRS8B/LSRSW8B LED 8" Shallow Round Cylinders	21.3 W	2139 lm	100.4 lm/W

Building 1 · Common Floors · TB 4 (Light scene 1)

Calculation objects



Building 1 · Common Floors · TB 4 (Light scene 1)

Calculation objects

Working planes

Properties	E (Target)	E _{min}	E _{max}	g ₁	g ₂	Index
Working plane (TB 4) Perpendicular illuminance Height: 0.800 m, Wall zone: 0.000 m	330 lx (≥ 200 lx) 	33.5 lx	653 lx	0.10	0.051	WP31

Utilization profile: General areas inside buildings - Rest, sanitation and first aid rooms, Cloakrooms, washrooms, bathrooms, toilets