

**Nacionalni inštitut za javno zdravlje Maribor**

## Content

Cover page .....	1
Content .....	2
Site 1 - Building 1 - Klet Hodnik 1	
Summary .....	4
Site 1 - Building 1 - Klet Kotlovnica	
Summary .....	6
Site 1 - Building 1 - Klet Pisarna 2	
Summary .....	8
Site 1 - Building 1 - Klet Pisarna 3	
Summary .....	10
Site 1 - Building 1 - Klet Pisarna 4	
Summary .....	12
Site 1 - Building 1 - Nadstropje Hodnik	
Summary .....	14
Site 1 - Building 1 - Nadstropje Pisarna 1	
Summary .....	16

## Content

Site 1 - Building 1 - Nadstropje

### Pisarna 2

Summary .....18

Site 1 - Building 1 - Nadstropje

### Vstop 2

Summary .....20

Site 1 - Building 1 - Nadstropje

### Vstop

Summary .....22

Site 1 - Building 1 - Mansadra

### Hodnik z recepcijo

Summary .....24

Site 1 - Building 1 - Mansadra

### Konferencija

Summary .....26

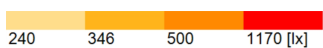
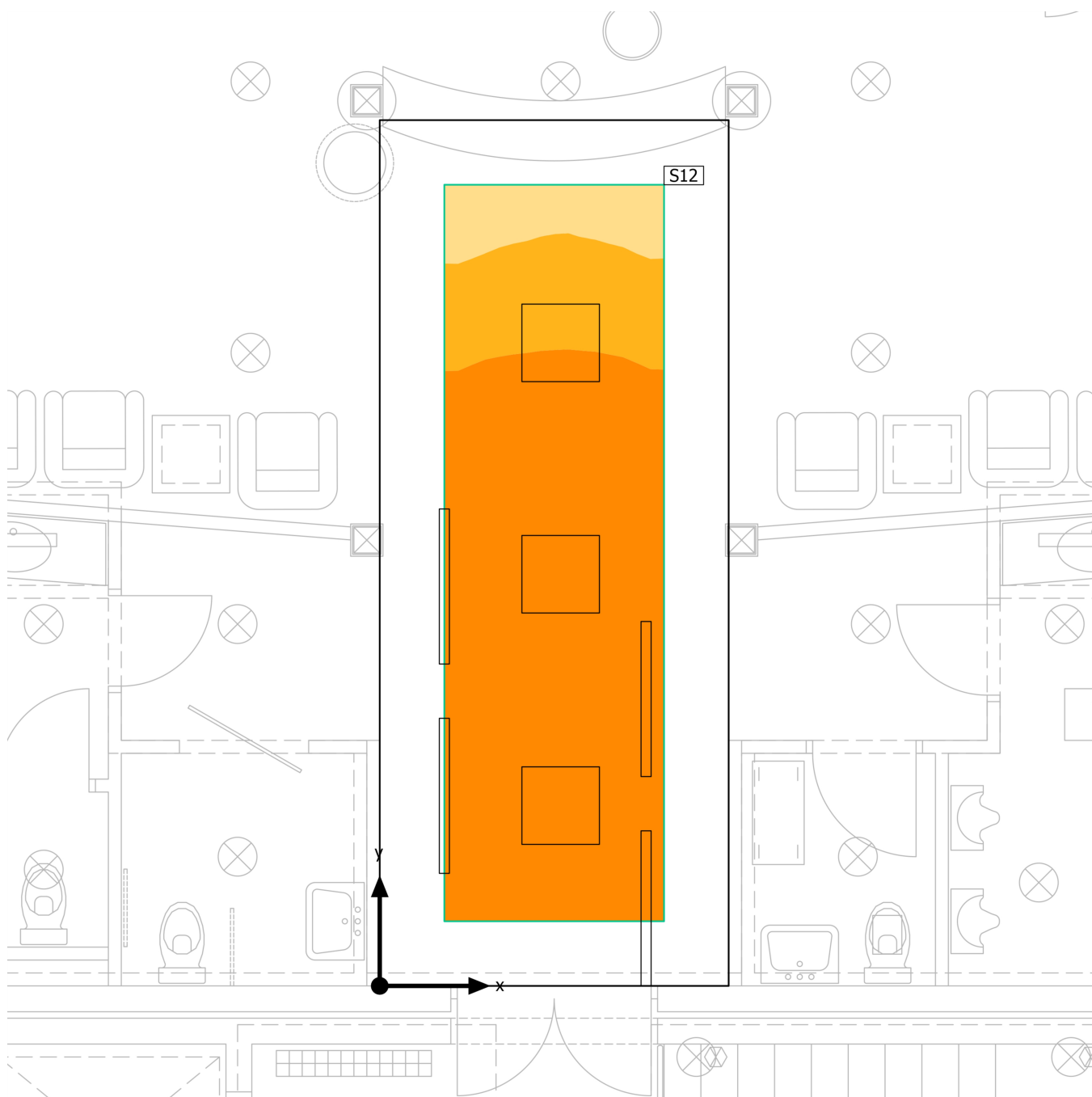
Site 1 - Building 1 - Mansadra

### Restauracija

Summary .....28

Building 1 · Klet · Hodnik 1

## Summary



Ground area: 18.09 m<sup>2</sup> | Reflection factors: Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 2.380 m | Mounting height: 2.380 m - 2.480 m

Building 1 · Klet · Hodnik 1

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Workplane	$\bar{E}_{\text{perpendicular}}$	663 lx	$\geq 100$ lx	✓	S12
	$g_1$	0.44	-	-	S12
Consumption values	Consumption	160 kWh/a	max. 650 kWh/a	✓	
Lighting power density	Room	8.29 W/m <sup>2</sup>	-	-	
		1.25 W/m <sup>2</sup> /100 lx	-	-	
	Workplane	15.48 W/m <sup>2</sup>	-	-	
		2.33 W/m <sup>2</sup> /100 lx	-	-	

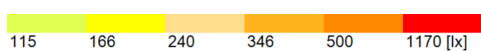
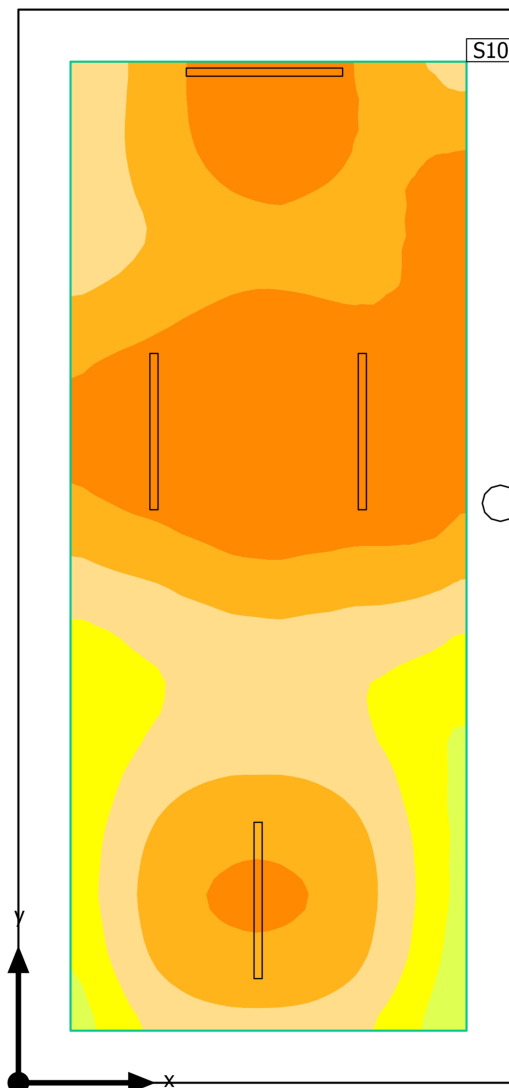
Utilisation profile: Traffic zones inside buildings, Circulation areas and corridors

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3			RC136B 31S_37S_43S840 PSU W60L60 OC 500mA	22.0 W	3184 lm	144.7 lm/W
4	PHILIPS		WT120C G2 PSU L1200 1 xLED27S/840	21.0 W	2700 lm	128.6 lm/W

Building 1 · Klet · Kotlovnica

## Summary



Ground area: 49.44 m<sup>2</sup> | Reflection factors: Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 2.540 m | Mounting height: 2.000 m - 2.540 m

Building 1 · Klet · Kotlovnica

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Workplane	$\bar{E}_{\text{perpendicular}}$	425 lx	$\geq 200$ lx	✓	S10
	$g_1$	0.29	-	-	S10
Consumption values	Consumption	35 kWh/a	max. 1750 kWh/a	✓	
Lighting power density	Room	4.35 W/m <sup>2</sup>	-	-	
		1.02 W/m <sup>2</sup> /100 lx	-	-	
	Workplane	6.08 W/m <sup>2</sup>	-	-	
		1.43 W/m <sup>2</sup> /100 lx	-	-	

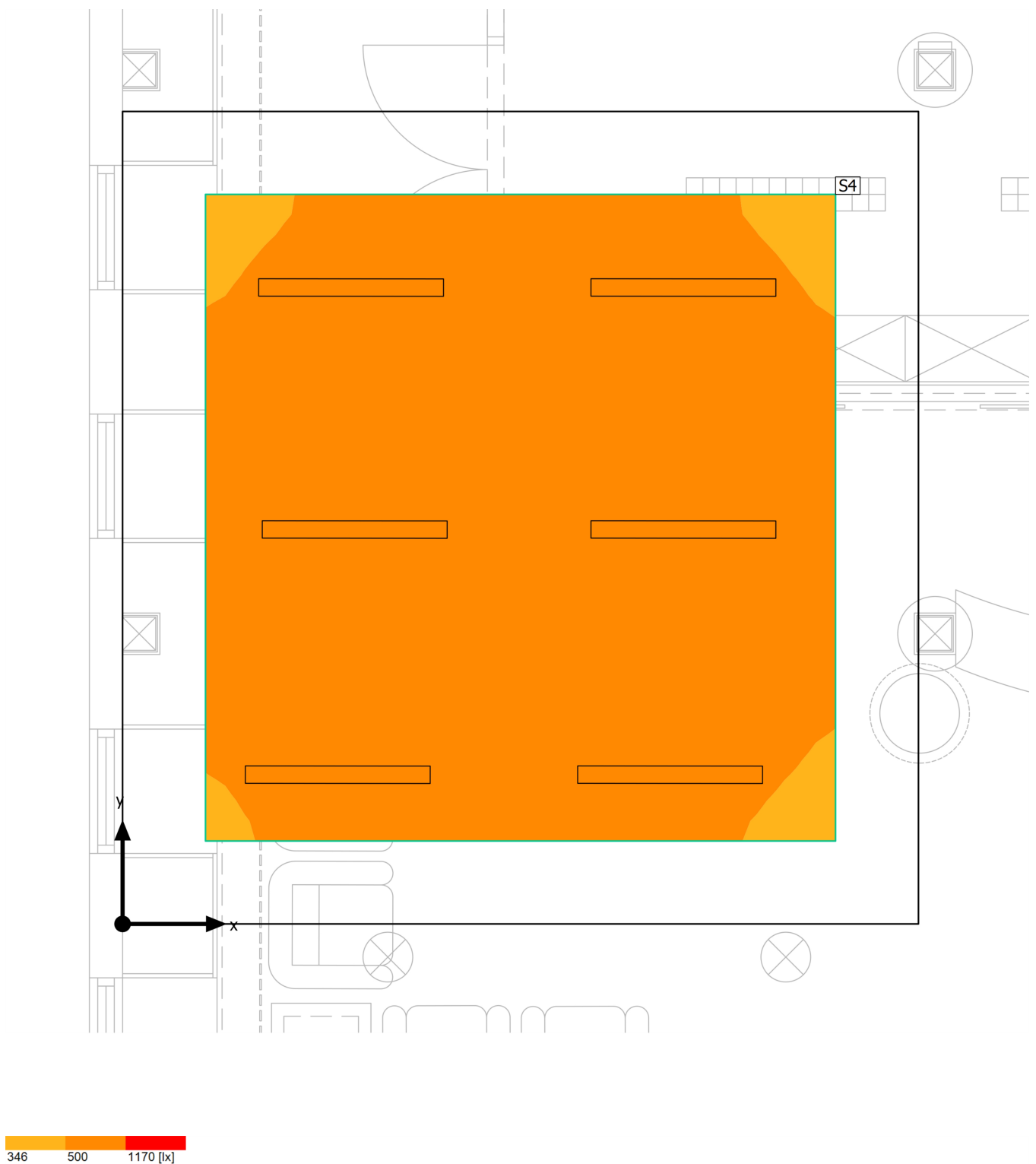
Utilisation profile: General areas inside buildings - Control rooms, Plant rooms, switchgear rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	PHILIPS		WL130V PSU D350 1 xLED20S/840	22.0 W	2000 lm	90.9 lm/W
4	PHILIPS		WT120C G2 L1500 1 xLED60S/840	43.0 W	6000 lm	139.5 lm/W
1	PHILIPS		WT120C G2 PSU L1200 1 xLED27S/840	21.0 W	2700 lm	128.6 lm/W

Building 1 · Klet · Pisarna 2

## Summary



Ground area: 23.52 m<sup>2</sup> | Reflection factors: Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 2.540 m | Mounting height: 2.540 m

Building 1 · Klet · Pisarna 2

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Workplane	$\bar{E}_{\text{perpendicular}}$	724 lx	$\geq 500$ lx	✓	S4
	$g_1$	0.56	-	-	S4
Consumption values	Consumption	340 kWh/a	max. 850 kWh/a	✓	
Lighting power density	Room	5.28 W/m <sup>2</sup>	-	-	
		0.73 W/m <sup>2</sup> /100 lx	-	-	
	Workplane	8.38 W/m <sup>2</sup>	-	-	
		1.16 W/m <sup>2</sup> /100 lx	-	-	

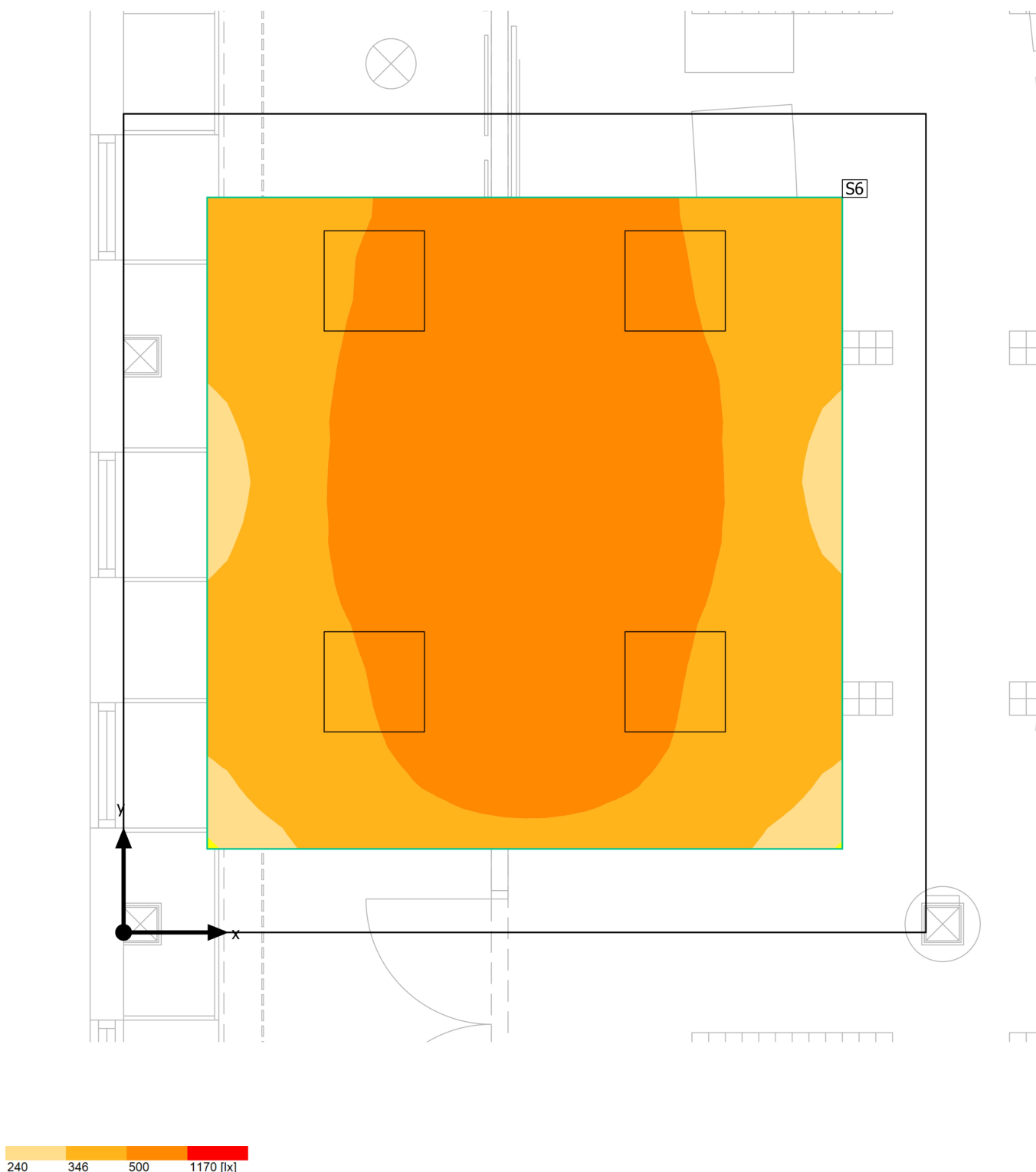
Utilisation profile: DIALux presetting, Standard (office)

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	SIGNIFY		W20L120 OC 0.5A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W	20.7 W	3172 lm	153.2 lm/W

Building 1 · Klet · Pisarna 3

## Summary



Ground area: 23.52 m<sup>2</sup> | Reflection factors: Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 2.540 m | Mounting height: 2.640 m

Building 1 · Klet · Pisarna 3

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Workplane	$\bar{E}_{\text{perpendicular}}$	505 lx	$\geq 500$ lx	✓	S6
	$g_1$	0.48	-	-	S6
Consumption values	Consumption	240 kWh/a	max. 850 kWh/a	✓	
Lighting power density	Room	3.74 W/m <sup>2</sup>	-	-	
		0.74 W/m <sup>2</sup> /100 lx	-	-	
	Workplane	5.94 W/m <sup>2</sup>	-	-	
		1.18 W/m <sup>2</sup> /100 lx	-	-	

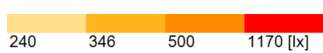
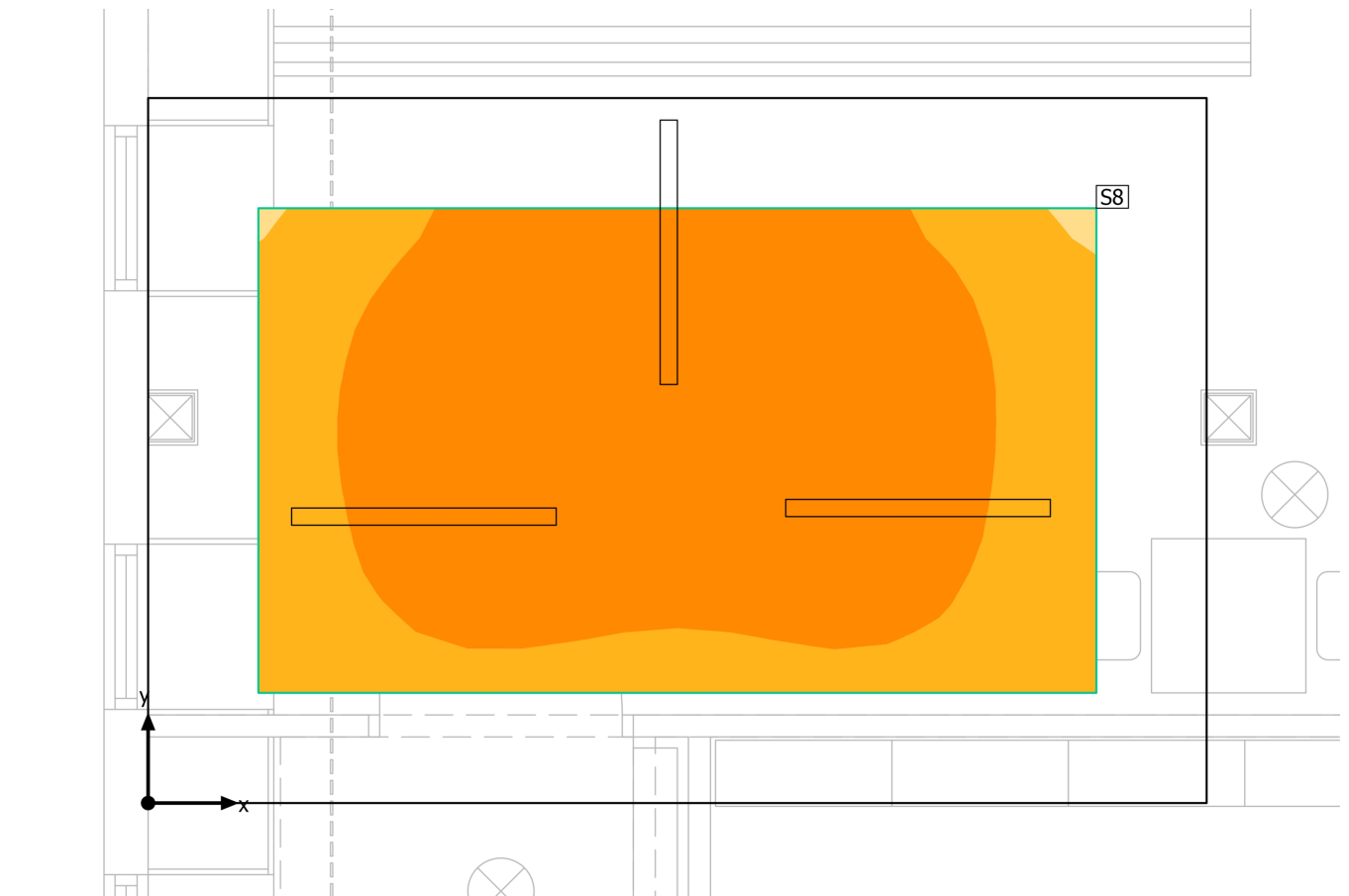
Utilisation profile: DIALux presetting, Standard (office)

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4			RC136B 31S_37S_43S840 PSU W60L60 OC 500mA	22.0 W	3184 lm	144.7 lm/W

Building 1 · Klet · Pisarna 4

## Summary



Ground area: 15.36 m<sup>2</sup> | Reflection factors: Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 2.540 m | Mounting height: 2.540 m

Building 1 · Klet · Pisarna 4

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Workplane	$\bar{E}_{\text{perpendicular}}$	542 lx	$\geq 500$ lx	✓	S8
	$g_1$	0.62	-	-	S8
Consumption values	Consumption	240 kWh/a	max. 550 kWh/a	✓	
Lighting power density	Room	5.57 W/m <sup>2</sup>	-	-	
		1.03 W/m <sup>2</sup> /100 lx	-	-	
	Workplane	10.23 W/m <sup>2</sup>	-	-	
		1.89 W/m <sup>2</sup> /100 lx	-	-	

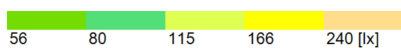
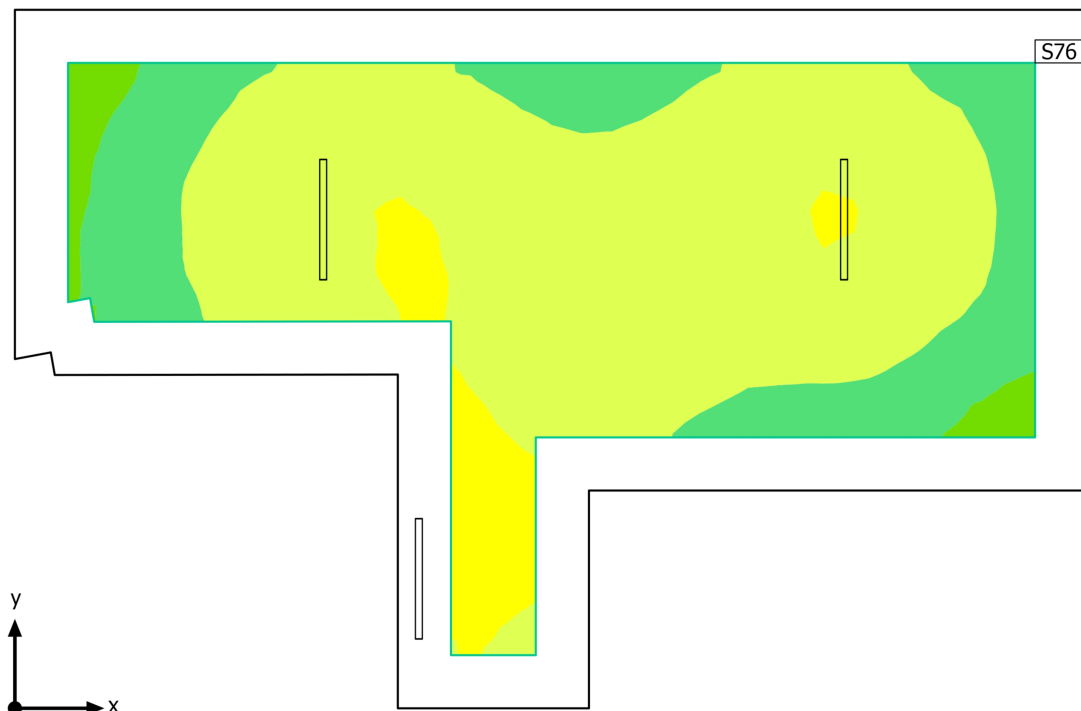
Utilisation profile: DIALux presetting, Standard (office)

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	PHILIPS		WT120C G2 L1200 1 xLED40S/840	28.5 W	4000 lm	140.4 lm/W

Building 1 · Nadstropje · Hodnik

## Summary



Ground area: 45.38 m<sup>2</sup> | Reflection factors: Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 2.840 m | Mounting height: 2.840 m

Building 1 · Nadstropje · Hodnik

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Workplane	$\bar{E}_{\text{perpendicular}}$	132 lx	$\geq 100$ lx	✓	S76
	$g_1$	0.51	-	-	S76
Consumption values	Consumption	100 kWh/a	max. 1600 kWh/a	✓	
Lighting power density	Room	2.05 W/m <sup>2</sup>	-	-	
		1.55 W/m <sup>2</sup> /100 lx	-	-	
	Workplane	3.13 W/m <sup>2</sup>	-	-	
		2.36 W/m <sup>2</sup> /100 lx	-	-	

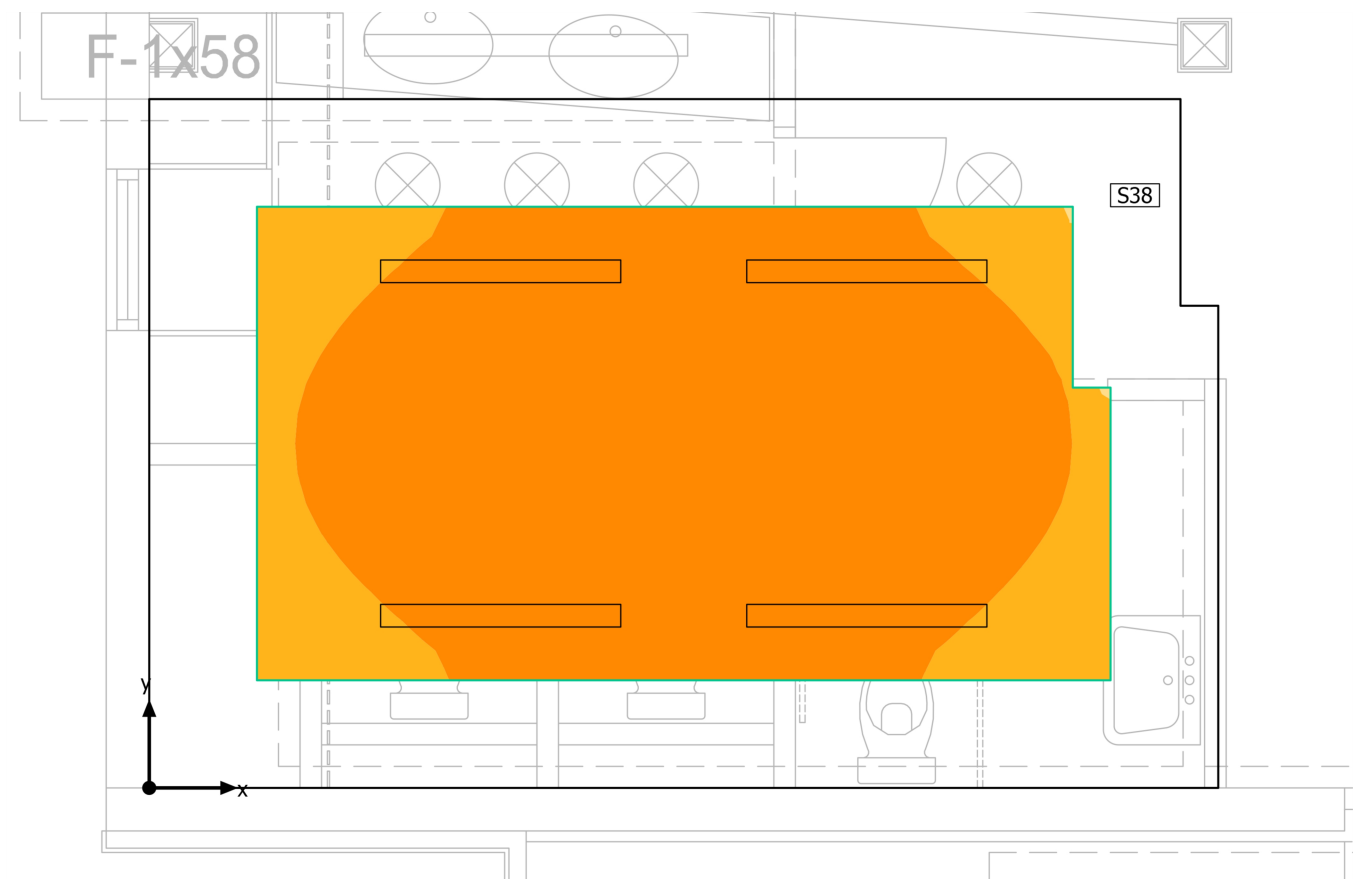
Utilisation profile: Traffic zones inside buildings, Circulation areas and corridors

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
3	PHILIPS		BN126C L1200 1 xLED41S/840	31.0 W	4100 lm	132.3 lm/W

Building 1 · Nadstropje · Pisarna 1

## Summary



Ground area: 15.71 m<sup>2</sup> | Reflection factors: Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 2.840 m | Mounting height: 2.840 m

Building 1 · Nadstropje · Pisarna 1

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Workplane	$\bar{E}_{\text{perpendicular}}$	634 lx	$\geq 500$ lx	✓	S38
	$g_1$	0.56	-	-	S38
Consumption values	Consumption	230 kWh/a	max. 600 kWh/a	✓	
Lighting power density	Room	5.27 W/m <sup>2</sup>	-	-	
		0.83 W/m <sup>2</sup> /100 lx	-	-	
	Workplane	9.66 W/m <sup>2</sup>	-	-	
		1.52 W/m <sup>2</sup> /100 lx	-	-	

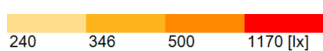
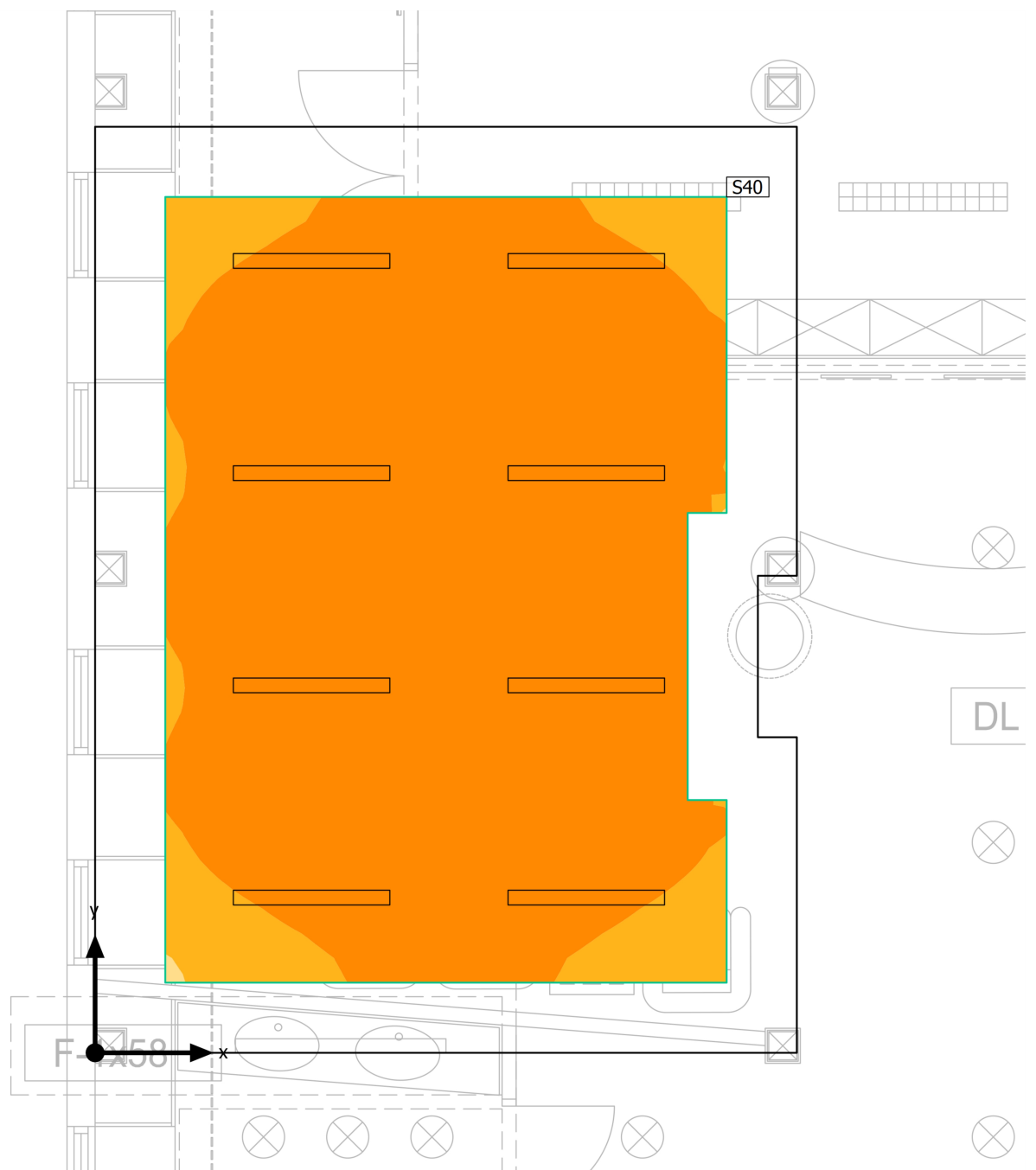
Utilisation profile: DIALux presetting, Standard (office)

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	SIGNIFY		W20L120 OC 0.5A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W	20.7 W	3172 lm	153.2 lm/W

Building 1 · Nadstropje · Pisarna 2

## Summary



Ground area: 32.68 m<sup>2</sup> | Reflection factors: Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 2.840 m | Mounting height: 2.840 m

Building 1 · Nadstropje · Pisarna 2

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Workplane	$\bar{E}_{\text{perpendicular}}$	675 lx	$\geq 500$ lx	✓	S40
	$g_1$	0.50	-	-	S40
Consumption values	Consumption	460 kWh/a	max. 1150 kWh/a	✓	
Lighting power density	Room	5.07 W/m <sup>2</sup>	-	-	
		0.75 W/m <sup>2</sup> /100 lx	-	-	
	Workplane	7.59 W/m <sup>2</sup>	-	-	
		1.12 W/m <sup>2</sup> /100 lx	-	-	

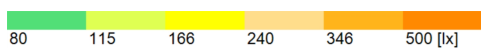
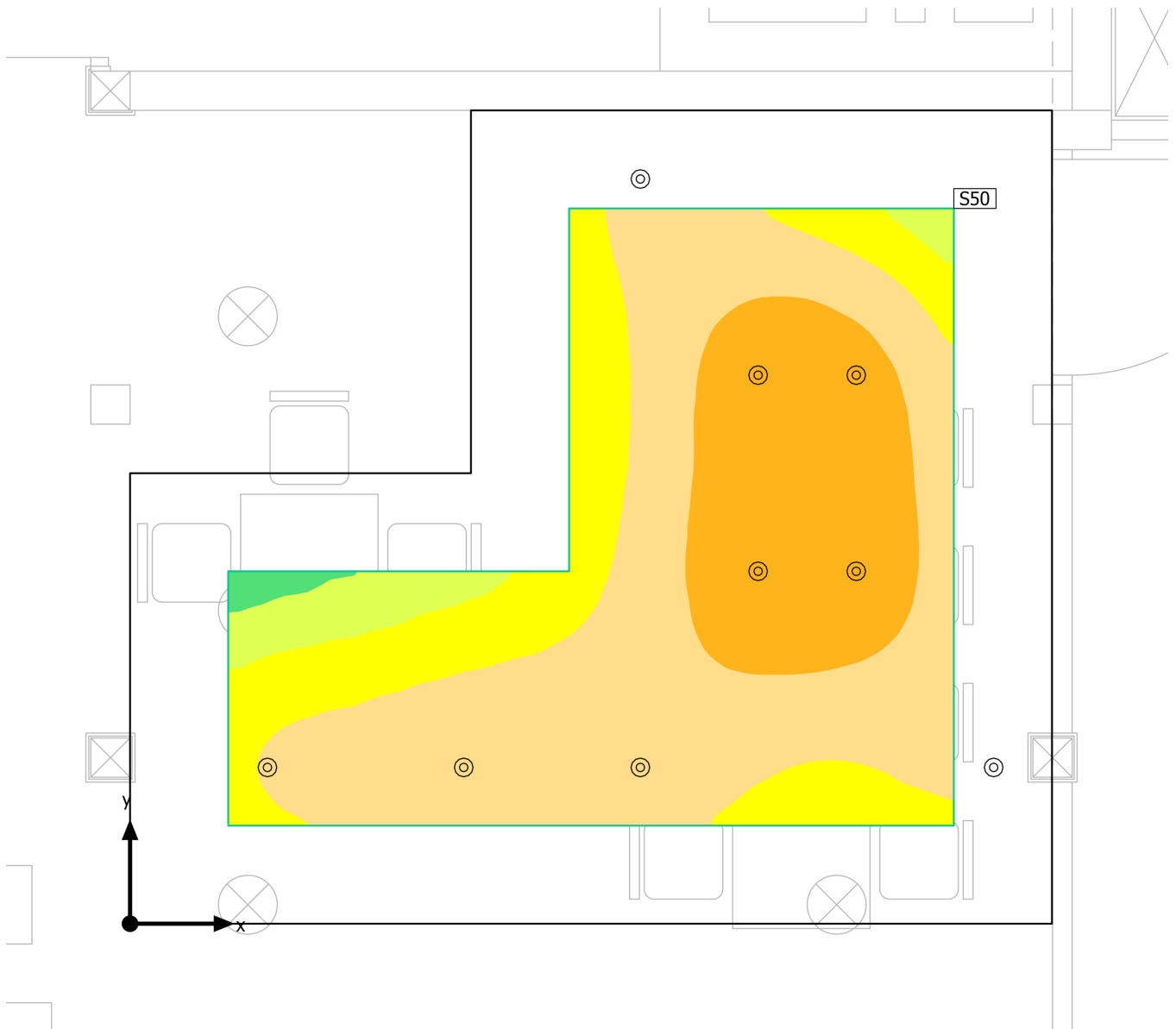
Utilisation profile: DIALux presetting, Standard (office)

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
8	SIGNIFY		W20L120 OC 0.5A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W	20.7 W	3172 lm	153.2 lm/W

Building 1 · Nadstropje · Vstop 2

## Summary



Ground area: 16.26 m<sup>2</sup> | Reflection factors: Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 2.580 m | Mounting height: 2.640 m

Building 1 · Nadstropje · Vstop 2

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Workplane	$\bar{E}_{\text{perpendicular}}$	292 lx	$\geq 100$ lx	✓	S50
	$g_1$	0.32	-	-	S50
Consumption values	Consumption	110 kWh/a	max. 600 kWh/a	✓	
Lighting power density	Room	6.09 W/m <sup>2</sup>	-	-	
		2.09 W/m <sup>2</sup> /100 lx	-	-	
	Workplane	11.76 W/m <sup>2</sup>	-	-	
		4.03 W/m <sup>2</sup> /100 lx	-	-	

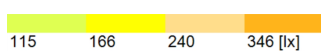
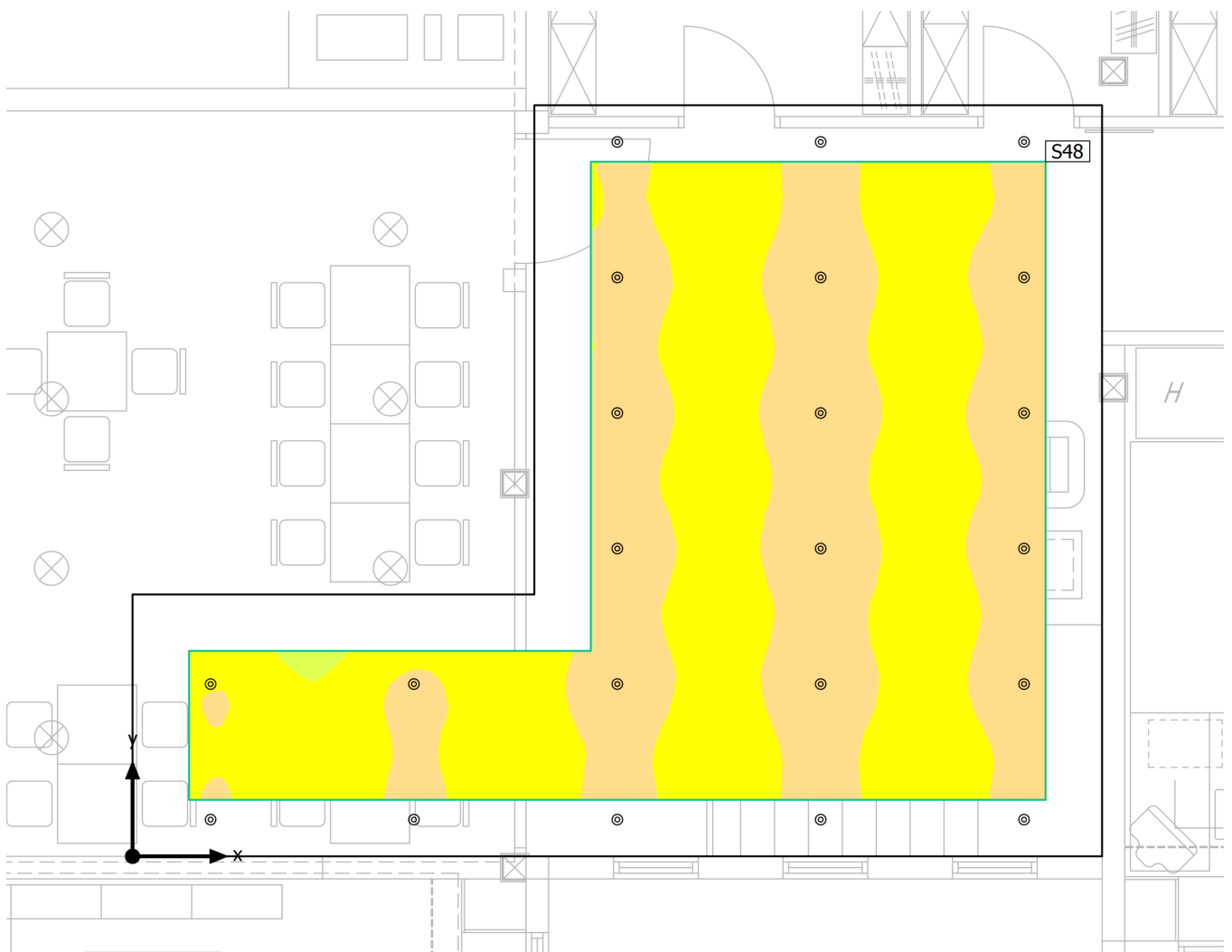
Utilisation profile: Traffic zones inside buildings, Circulation areas and corridors

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
9	PHILIPS		RS140B 1xLED6-32-/840	11.0 W	601 lm	54.6 lm/W

Building 1 · Nadstropje · Vstop

## Summary



Ground area: 41.66 m<sup>2</sup> | Reflection factors: Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 2.580 m | Mounting height: 2.640 m

Building 1 · Nadstropje · Vstop

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Workplane	$\bar{E}_{\text{perpendicular}}$	236 lx	$\geq 100$ lx	✓	S48
	$g_1$	0.64	-	-	S48
Consumption values	Consumption	270 kWh/a	max. 1500 kWh/a	✓	
Lighting power density	Room	5.81 W/m <sup>2</sup>	-	-	
		2.46 W/m <sup>2</sup> /100 lx	-	-	
	Workplane	8.82 W/m <sup>2</sup>	-	-	
		3.74 W/m <sup>2</sup> /100 lx	-	-	

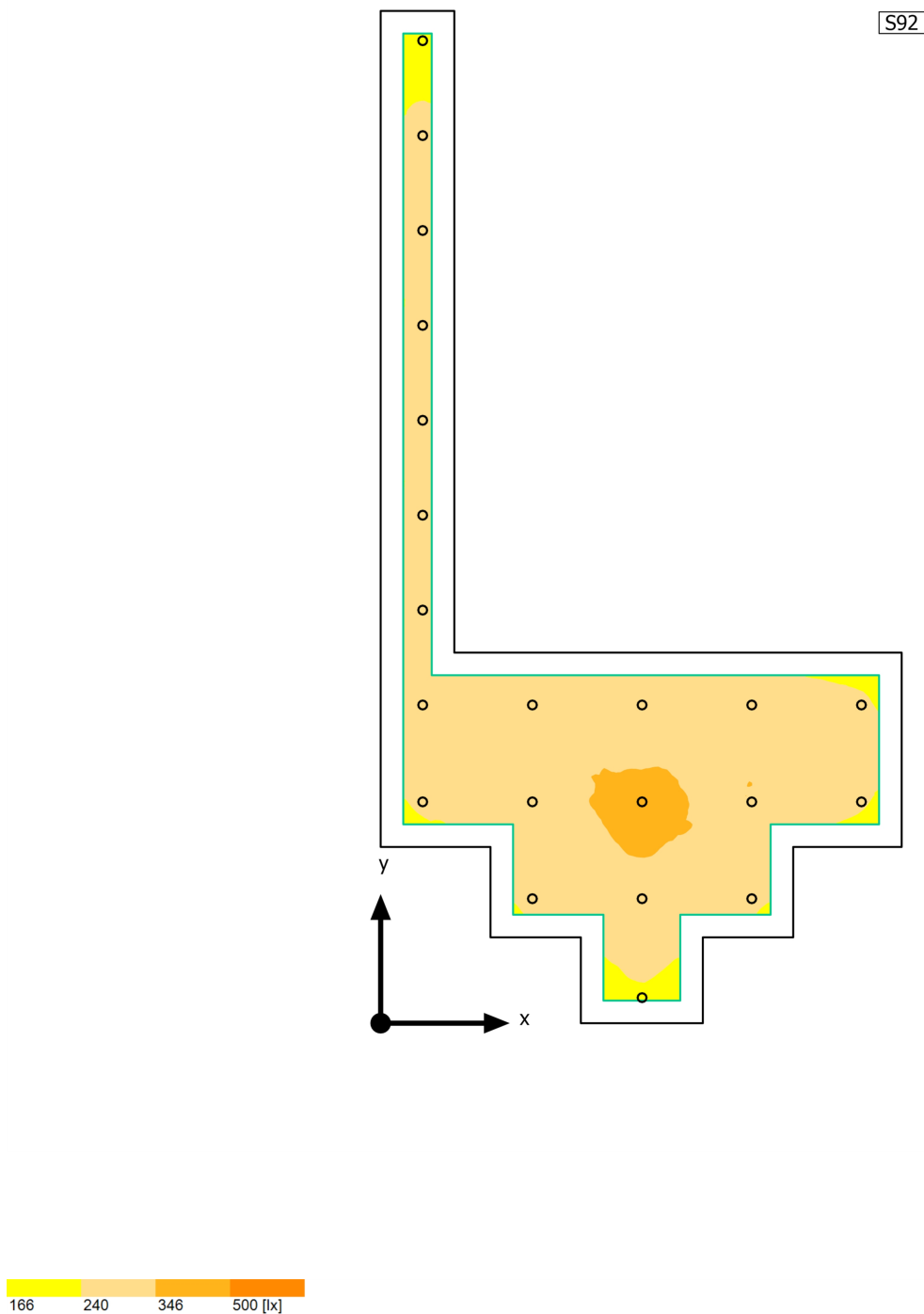
Utilisation profile: Traffic zones inside buildings, Circulation areas and corridors

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
22	PHILIPS		RS140B 1xLED6-32-/840	11.0 W	601 lm	54.6 lm/W

Building 1 · Mansadra · Hodnik z recepcijo

## Summary



Building 1 · Mansadra · Hodnik z recepcijo

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Workplane	$\bar{E}_{\text{perpendicular}}$	297 lx	$\geq 100$ lx	✓	S92
	$g_1$	0.65	-	-	S92
Consumption values	Consumption	470 kWh/a	max. 3200 kWh/a	✓	
Lighting power density	Room	4.72 W/m <sup>2</sup>	-	-	
		1.59 W/m <sup>2</sup> /100 lx	-	-	
	Workplane	7.38 W/m <sup>2</sup>	-	-	
		2.49 W/m <sup>2</sup> /100 lx	-	-	

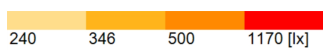
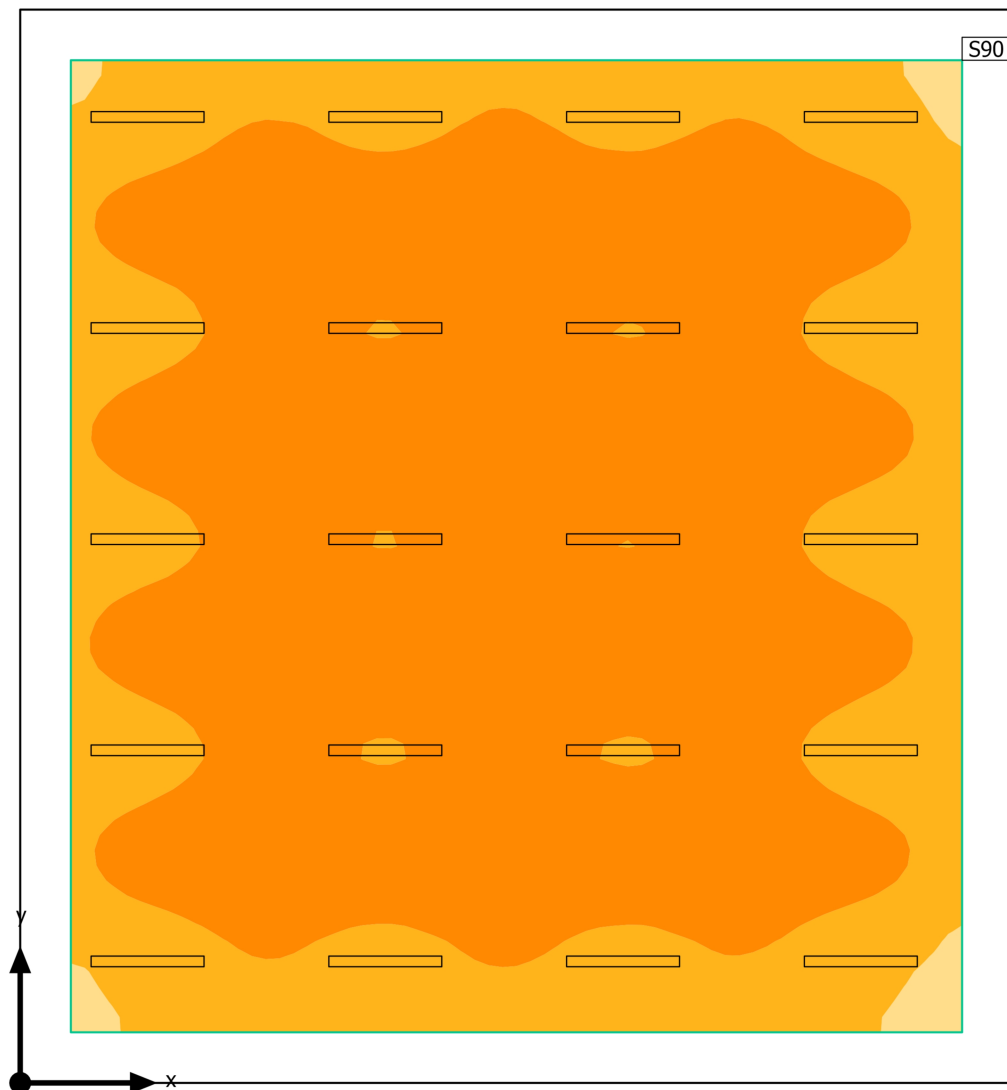
Utilisation profile: Traffic zones inside buildings, Circulation areas and corridors

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
21	PHILIPS		DN140B PSED-E IP54 D216 1 xLED20S/840 WR	20.5 W	2200 lm	107.3 lm/W

Building 1 · Mansadra · Konferencija

## Summary



Ground area: 103.88 m<sup>2</sup> | Reflection factors: Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 3.000 m | Mounting height: 3.000 m

Building 1 · Mansadra · Konferencija

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Workplane	$\bar{E}_{\text{perpendicular}}$	522 lx	$\geq 500$ lx	✓	S90
	$g_1$	0.55	-	-	S90
Consumption values	Consumption	800 kWh/a	max. 3650 kWh/a	✓	
Lighting power density	Room	3.99 W/m <sup>2</sup>	-	-	
		0.76 W/m <sup>2</sup> /100 lx	-	-	
	Workplane	4.90 W/m <sup>2</sup>	-	-	
		0.94 W/m <sup>2</sup> /100 lx	-	-	

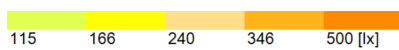
Utilisation profile: Offices, Conference and meeting rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
20	SIGNIFY		W20L120 OC 0.5A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W	20.7 W	3172 lm	153.2 lm/W

Building 1 · Mansadra · Restauracija

## Summary



Ground area: 72.82 m<sup>2</sup> | Reflection factors: Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 3.000 m | Mounting height: 2.720 m

Building 1 · Mansadra · Restauracija

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Workplane	$\bar{E}_{\text{perpendicular}}$	288 lx	$\geq 200$ lx	✓	S84
	$g_1$	0.47	-	-	S84
Consumption values	Consumption	1350 kWh/a	max. 2550 kWh/a	✓	
Lighting power density	Room	4.83 W/m <sup>2</sup>	-	-	
		1.68 W/m <sup>2</sup> /100 lx	-	-	
	Workplane	6.61 W/m <sup>2</sup>	-	-	
		2.30 W/m <sup>2</sup> /100 lx	-	-	

Utilisation profile: Places of public assembly - Restaurants and hotels, Self-service restaurants

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
16	PHILIPS		WL130V PSU D350 1 xLED20S/840	22.0 W	2000 lm	90.9 lm/W