

Perdhesa

Preliminary remarks

Notes on planning:

The energy consumption quantities do not take into account light scenes and their dimming levels.

Content

Cover page	1
Preliminary remarks	2
Content	3
Description	9
Luminaire list	10

Product data sheets

Not yet a DIALux member - "START Panel 1200x300 HE 4100L m 840 LILO" /4000 (1x LED/4000)	11
Not yet a DIALux member - 4000K Ra80 (1x)	12
Not yet a DIALux member - START Waterproof Slim 1500 IP65 3800lm 840 (1x 0046371 START Waterproof Slim 1500 IP65 3800lm 840)	13

Përdhesa

Building 1

Luminaire list	14
----------------------	----

Përdhesa - Building 1

Përdhesa

Room List / Light scene 1	15
Luminaire list	21
Calculation objects / Light scene 1	22

Përdhesa - Building 1 - Përdhesa

Dhoma e teknikeve

Summary / Light scene 1	24
Luminaire layout plan	26
Luminaire list	28
Calculation objects / Light scene 1	29
Working plane (Dhoma e teknikeve) / Light scene 1 / Perpendicular illuminance (adaptive)	31

Përdhesa - Building 1 - Përdhesa

Dhome teknike

Summary / Light scene 1	32
Luminaire layout plan	34
Luminaire list	36

Content

Calculation objects / Light scene 1	37
Working plane (Dhome teknike) / Light scene 1 / Perpendicular illuminance (adaptive)	39

Përdhesa - Building 1 - Përdhesa

Klase mesimi 1

Summary / Light scene 1	40
Luminaire layout plan	42
Luminaire list	44
Calculation objects / Light scene 1	45
Working plane (Klase mesimi 1) / Light scene 1 / Perpendicular illuminance (adaptive)	47

Përdhesa - Building 1 - Përdhesa

Klase mesimi 2

Summary / Light scene 1	48
Luminaire layout plan	50
Luminaire list	52
Calculation objects / Light scene 1	53
Working plane (Klase mesimi 2) / Light scene 1 / Perpendicular illuminance (adaptive)	55

Përdhesa - Building 1 - Përdhesa

Klase mesimi 3

Summary / Light scene 1	56
Luminaire layout plan	58
Luminaire list	60
Calculation objects / Light scene 1	61
Working plane (Klase mesimi 3) / Light scene 1 / Perpendicular illuminance (adaptive)	63

Përdhesa - Building 1 - Përdhesa

Klase mesimi 4

Summary / Light scene 1	64
Luminaire layout plan	66
Luminaire list	68
Calculation objects / Light scene 1	69

Content

Working plane (Klase mesimi 4) / Light scene 1 / Perpendicular illuminance (adaptive)	71
---	----

Përdhesa - Building 1 - Përdhesa

Koridori

Summary / Light scene 1	72
Luminaire layout plan	74
Luminaire list	76
Calculation objects / Light scene 1	77
Working plane (Koridori) / Light scene 1 / Perpendicular illuminance (adaptive)	79

Përdhesa - Building 1 - Përdhesa

Koridori

Summary / Light scene 1	80
Luminaire layout plan	82
Luminaire list	84
Calculation objects / Light scene 1	85
Working plane (Koridori) / Light scene 1 / Perpendicular illuminance (adaptive)	87

Përdhesa - Building 1 - Përdhesa

Zyre

Summary / Light scene 1	88
Luminaire layout plan	90
Luminaire list	92
Calculation objects / Light scene 1	93
Working plane (Zyre) / Light scene 1 / Perpendicular illuminance (adaptive)	95

Përdhesa - Building 1 - Përdhesa

Zyre e arsimtareve

Summary / Light scene 1	96
Luminaire layout plan	98
Luminaire list	100
Calculation objects / Light scene 1	101
Working plane (Zyre e arsimtareve) / Light scene 1 / Perpendicular illuminance (adaptive)	103

Content

Përdhesa - Building 1

Kati 1

Room List / Light scene 1	104
Luminaire list	110
Calculation objects / Light scene 1	111

Përdhesa - Building 1 - Kati 1

Klasa e Mesimit

Summary / Light scene 1	113
Luminaire layout plan	115
Luminaire list	117
Calculation objects / Light scene 1	118
Working plane (Klasa e Mesimit) / Light scene 1 / Perpendicular illuminance (adaptive)	120

Përdhesa - Building 1 - Kati 1

Klasa e Mesimit

Summary / Light scene 1	121
Luminaire layout plan	123
Luminaire list	125
Calculation objects / Light scene 1	126
Working plane (Klasa e Mesimit) / Light scene 1 / Perpendicular illuminance (adaptive)	128

Përdhesa - Building 1 - Kati 1

Klasa e Mesimit

Summary / Light scene 1	129
Luminaire layout plan	131
Luminaire list	133
Calculation objects / Light scene 1	134
Working plane (Klasa e Mesimit) / Light scene 1 / Perpendicular illuminance (adaptive)	136

Përdhesa - Building 1 - Kati 1

Klasa e Mesimit

Summary / Light scene 1	137
Luminaire layout plan	139
Luminaire list	141

Content

Calculation objects / Light scene 1	142
Working plane (Klasa e Mesimit) / Light scene 1 / Perpendicular illuminance (adaptive)	144

Përdhesa - Building 1 - Kati 1

Klasa e Mesimit

Summary / Light scene 1	145
Luminaire layout plan	147
Luminaire list	149
Calculation objects / Light scene 1	150
Working plane (Klasa e Mesimit) / Light scene 1 / Perpendicular illuminance (adaptive)	152

Përdhesa - Building 1 - Kati 1

Klasa Mesimit

Summary / Light scene 1	153
Luminaire layout plan	155
Luminaire list	157
Calculation objects / Light scene 1	158
Working plane (Klasa Mesimit) / Light scene 1 / Perpendicular illuminance (adaptive)	160

Përdhesa - Building 1 - Kati 1

Koridori

Summary / Light scene 1	161
Luminaire layout plan	163
Luminaire list	165
Calculation objects / Light scene 1	166
Working plane (Koridori) / Light scene 1 / Perpendicular illuminance (adaptive)	168

Përdhesa - Building 1 - Kati 1

Koridori

Summary / Light scene 1	169
Luminaire layout plan	171
Luminaire list	173
Calculation objects / Light scene 1	174
Working plane (Koridori) / Light scene 1 / Perpendicular illuminance (adaptive)	176

Content

Përdhesa - Building 1 - Kati 1

Room 18

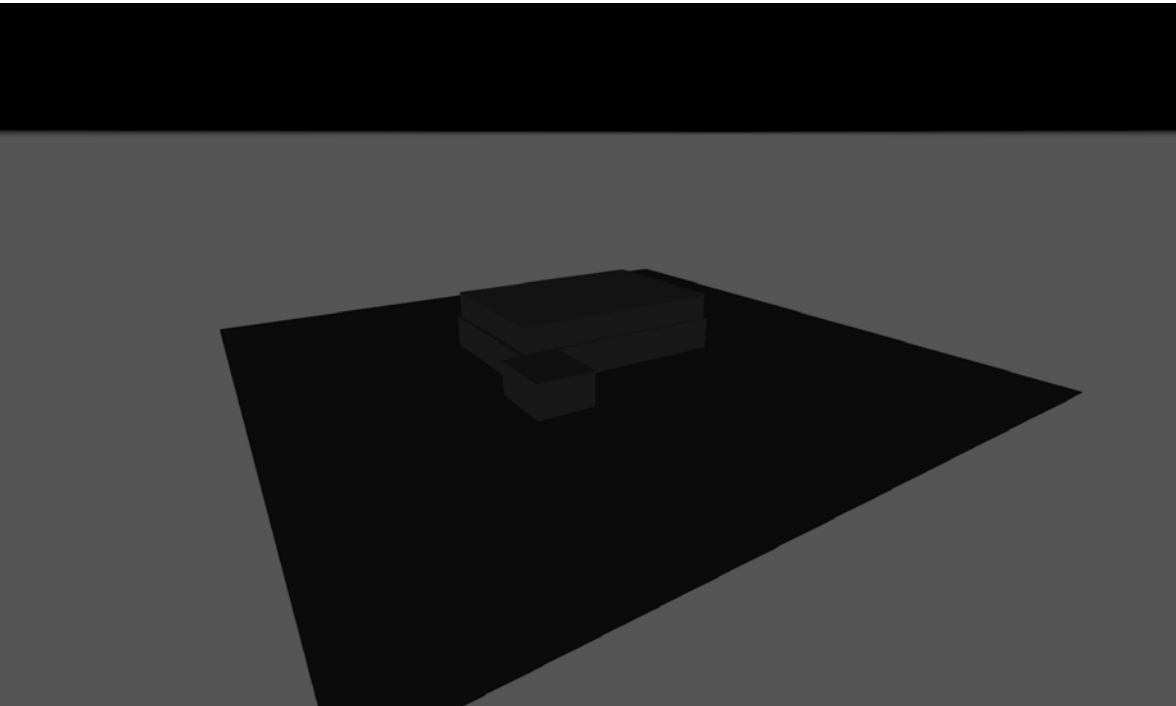
Summary / Light scene 1	177
Luminaire layout plan	179
Luminaire list	181
Calculation objects / Light scene 1	182
Working plane (Room 18) / Light scene 1 / Perpendicular illuminance (adaptive)	184

Përdhesa - Building 1 - Kati 1

Zyra e Drejtorit

Summary / Light scene 1	185
Luminaire layout plan	187
Luminaire list	189
Calculation objects / Light scene 1	190
Working plane (Zyra e Drejtorit) / Light scene 1 / Perpendicular illuminance (adaptive)	192

Glossary	193
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Description

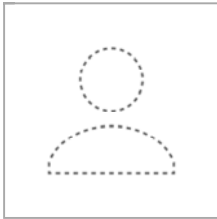
Luminaire list

Φ_{total} 289007 lm	P_{total} 2407.7 W	Luminous efficacy 120.0 lm/W
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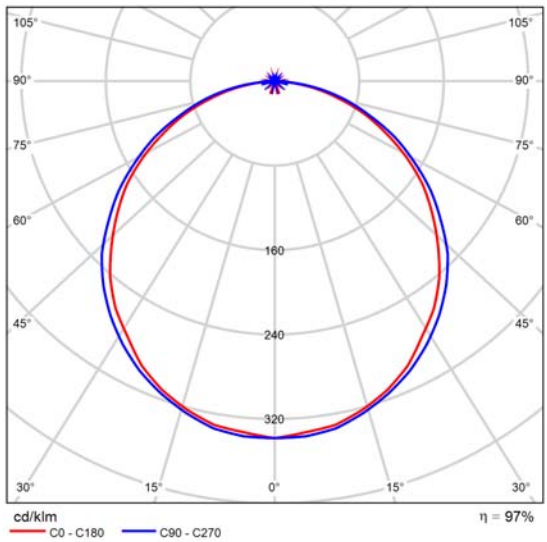
pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
7	Not yet a DIALux member		"START Panel 1200x300 HE 4100L m 840 LILO" /4000	34.0 W	3930 lm	115.6 lm/W
57	Not yet a DIALux member	0042695	4000K Ra80 START PANEL IP65 1200x300 4400lm 840 WHITE	36.1 W	4321 lm	119.7 lm/W
4	Not yet a DIALux member	0046371	START Waterproof Slim 1500 IP65 3800lm 840	28.0 W	3800 lm	135.7 lm/W

Product data sheet

Not yet a DIALux member - "START Panel 1200x300 HE 4100L m 840 LILO" /4000



P	34.0 W
Φ_{Lamp}	4053 lm
$\Phi_{Luminaire}$	3930 lm
η	96.96 %
Luminous efficacy	115.6 lm/W
CCT	3000 K
CRI	100



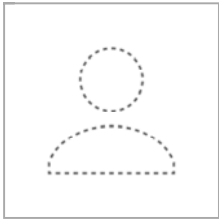
Polar LDC

Glare evaluation according to UGR												
ρ Ceiling	70	70	50	50	30	70	70	50	50	30		
ρ Walls	50	30	50	30	30	50	30	50	30	30		
ρ Floor	20	20	20	20	20	20	20	20	20	20		
Room size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis						
2H	2H	17.1	18.5	17.4	18.7	19.0	17.0	18.4	17.3	18.6	18.9	
	3H	18.6	19.8	19.0	20.1	20.4	18.5	19.7	18.8	20.0	20.3	
	4H	19.2	20.3	19.5	20.6	20.9	19.1	20.2	19.4	20.5	20.9	
	6H	19.6	20.7	19.9	21.0	21.3	19.5	20.6	19.9	20.9	21.2	
	8H	19.7	20.7	20.1	21.1	21.4	19.6	20.6	20.0	21.0	21.3	
	12H	19.7	20.7	20.1	21.1	21.4	19.6	20.6	20.0	21.0	21.3	
4H	2H	17.7	18.9	18.1	19.2	19.5	17.7	18.8	18.0	19.1	19.4	
	3H	19.4	20.4	19.8	20.7	21.1	19.3	20.3	19.7	20.7	21.0	
	4H	20.1	21.0	20.5	21.3	21.7	20.0	20.9	20.4	21.3	21.7	
	6H	20.6	21.4	21.0	21.8	22.2	20.5	21.3	21.0	21.7	22.1	
	8H	20.7	21.5	21.2	21.9	22.3	20.7	21.4	21.1	21.8	22.3	
	12H	20.8	21.5	21.3	21.9	22.4	20.8	21.4	21.2	21.9	22.3	
8H	4H	20.3	21.0	20.8	21.4	21.9	20.3	21.0	20.7	21.4	21.8	
	6H	20.9	21.5	21.4	22.0	22.4	20.9	21.5	21.4	21.9	22.4	
	8H	21.1	21.7	21.6	22.1	22.6	21.1	21.6	21.6	22.1	22.6	
	12H	21.3	21.7	21.8	22.2	22.7	21.2	21.7	21.8	22.2	22.7	
12H	4H	20.3	21.0	20.8	21.4	21.9	20.3	20.9	20.7	21.4	21.8	
	6H	21.0	21.5	21.5	22.0	22.5	20.9	21.5	21.4	21.9	22.4	
	8H	21.2	21.7	21.7	22.1	22.7	21.2	21.6	21.7	22.1	22.6	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1					
S = 1.5H		+0.2 / -0.3					+0.2 / -0.4					
S = 2.0H		+0.5 / -0.6					+0.5 / -0.7					
Standard table		BK05					BK05					
Correction Summand		3.6					3.6					
Corrected glare indices referring to 4053lm Total luminous flux												

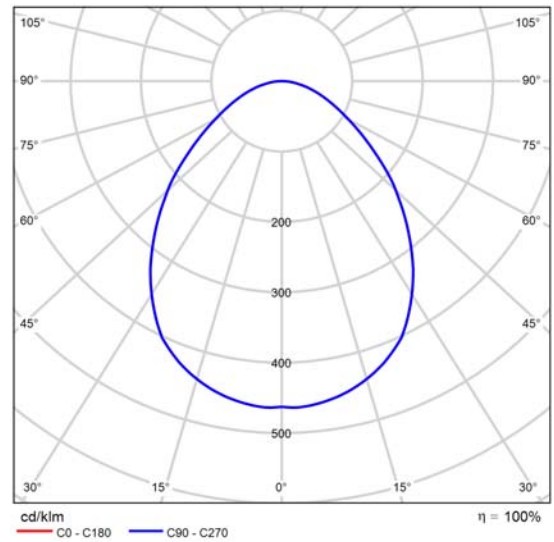
UGR diagram (SHR: 0.25)

Product data sheet

Not yet a DIALux member - 4000K Ra80



Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE
P	36.1 W
Φ_{Lamp}	4321 lm
$\Phi_{Luminaire}$	4321 lm
η	100.00 %
Luminous efficacy	119.7 lm/W
CCT	3000 K
CRI	100



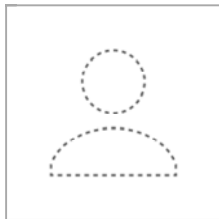
Polar LDC

Glare evaluation according to UGR												
ρ Ceiling	70	70	50	50	30	70	70	50	50	30		
ρ Walls	50	30	50	30	30	50	30	50	30	30		
ρ Floor	20	20	20	20	20	20	20	20	20	20		
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	16.0	17.2	16.3	17.5	17.7	16.0	17.2	16.3	17.5	17.7	
	3H	17.0	18.1	17.3	18.4	18.6	17.0	18.1	17.3	18.4	18.6	
	4H	17.4	18.4	17.7	18.7	19.0	17.4	18.4	17.7	18.7	19.0	
	6H	17.7	18.7	18.1	19.0	19.3	17.7	18.7	18.1	19.0	19.3	
	8H	17.8	18.8	18.2	19.1	19.4	17.8	18.8	18.2	19.1	19.4	
	12H	17.9	18.8	18.3	19.1	19.5	17.9	18.8	18.3	19.1	19.5	
4H	2H	16.4	17.5	16.8	17.7	18.0	16.4	17.5	16.8	17.7	18.0	
	3H	17.6	18.5	18.0	18.8	19.1	17.6	18.5	18.0	18.8	19.1	
	4H	18.1	18.9	18.5	19.3	19.6	18.1	18.9	18.5	19.3	19.6	
	6H	18.6	19.3	19.0	19.6	20.0	18.6	19.3	19.0	19.6	20.0	
	8H	18.7	19.4	19.2	19.8	20.2	18.7	19.4	19.2	19.8	20.2	
	12H	18.9	19.5	19.3	19.9	20.3	18.9	19.5	19.3	19.9	20.3	
8H	4H	18.3	19.0	18.7	19.3	19.8	18.3	19.0	18.7	19.3	19.8	
	6H	18.9	19.4	19.3	19.8	20.3	18.9	19.4	19.3	19.8	20.3	
	8H	19.1	19.6	19.6	20.0	20.5	19.1	19.6	19.6	20.0	20.5	
	12H	19.3	19.7	19.8	20.2	20.7	19.3	19.7	19.8	20.2	20.7	
12H	4H	18.3	18.9	18.8	19.3	19.7	18.3	18.9	18.8	19.3	19.7	
	6H	18.9	19.4	19.4	19.8	20.3	18.9	19.4	19.4	19.8	20.3	
	8H	19.2	19.6	19.7	20.1	20.6	19.2	19.6	19.7	20.1	20.6	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.2 / -0.3					+0.2 / -0.3					
S = 1.5H		+0.4 / -0.7					+0.4 / -0.7					
S = 2.0H		+0.8 / -1.1					+0.8 / -1.1					
Standard table		BK04					BK04					
Correction Summand		1.4					1.4					
Corrected glare indices referring to 4321lm Total luminous flux												

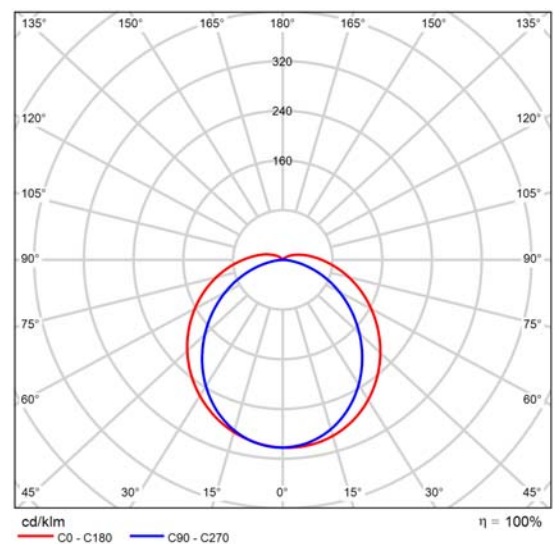
UGR diagram (SHR: 0.25)

Product data sheet

Not yet a DIALux member - START Waterproof Slim 1500 IP65 3800lm 840



Article No.	0046371
P	28.0 W
Φ_{Lamp}	3800 lm
$\Phi_{\text{Luminaire}}$	3800 lm
η	100.00 %
Luminous efficacy	135.7 lm/W
CCT	4000 K
CRI	80



Polar LDC

Building 1

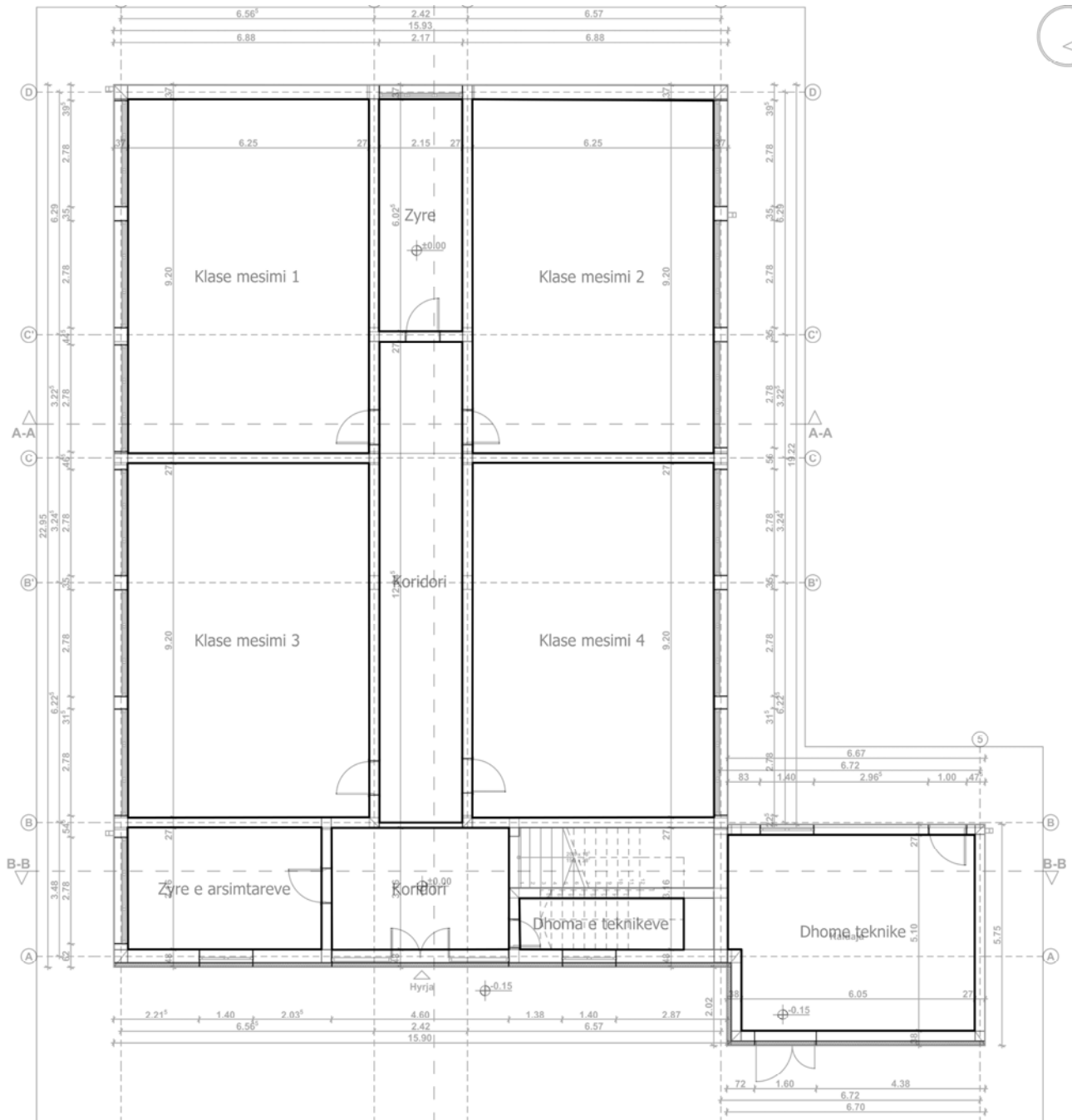
Luminaire list

Φ_{total} 289007 lm	P_{total} 2407.7 W	Luminous efficacy 120.0 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
7	Not yet a DIALux member		"START Panel 1200x300 HE 4100L m 840 LILO" /4000	34.0 W	3930 lm	115.6 lm/W
57	Not yet a DIALux member	0042695	4000K Ra80 START PANEL IP65 1200x300 4400lm 840 WHITE	36.1 W	4321 lm	119.7 lm/W
4	Not yet a DIALux member	0046371	START Waterproof Slim 1500 IP65 3800lm 840	28.0 W	3800 lm	135.7 lm/W

Building 1 · Përdhesa (Light scene 1)

Room List



Building 1 · Përdhësa (Light scene 1)

Room List

Dhoma e teknikeve

P_{total} 34.0 W	A_{Room} 5.72 m ²	Lighting power density 5.94 W/m ² = 4.57 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 130 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
1	Not yet a DIALux member		"START Panel 1200x300 HE 4100L m 840 LILO" /4000	34.0 W	3930 lm

Dhome teknike

P_{total} 112.0 W	A_{Room} 31.90 m ²	Lighting power density 3.51 W/m ² = 1.68 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 209 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
4	Not yet a DIALux member	0046371	START Waterproof Slim 1500 IP65 3800lm 840	28.0 W	3800 lm

Klase mesimi 1

P_{total} 216.6 W	A_{Room} 57.50 m ²	Lighting power density 3.77 W/m ² = 1.23 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 307 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	Not yet a DIALux member	0042695	4000K Ra80	36.1 W	4321 lm
		START			
		PANEL			
		IP65			
		1200x300			
		4400lm			
		840 WHITE			

Building 1 · Përdhesa (Light scene 1)

Room List

Klase mesimi 2

P_{total} 216.6 W	A_{Room} 57.44 m ²	Lighting power density 3.77 W/m ² = 1.21 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 311 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Klase mesimi 3

P_{total} 216.6 W	A_{Room} 57.62 m ²	Lighting power density 3.76 W/m ² = 1.24 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 303 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Building 1 · Përdhësa (Light scene 1)

Room List

Klasë mesimi 4

P_{total} 216.6 W	A_{Room} 57.69 m ²	Lighting power density 3.75 W/m ² = 1.22 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 308 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Koridori

P_{total} 72.2 W	A_{Room} 26.90 m ²	Lighting power density 2.68 W/m ² = 1.98 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 136 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
2	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Building 1 · Përdhësa (Light scene 1)

Room List

Koridori

P_{total} 36.1 W	A_{Room} 14.54 m ²	Lighting power density 2.48 W/m ² = 1.80 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 138 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
1	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Zyre

P_{total} 68.0 W	A_{Room} 13.01 m ²	Lighting power density 5.23 W/m ² = 2.15 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 243 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
2	Not yet a DIALux member		"START Panel 1200x300 HE 4100L m 840 LILO" /4000	34.0 W	3930 lm

Building 1 · Përdhesa (Light scene 1)

Room List

Zyre e arsimtareve

 P_{total}
72.2 W A_{Room}
15.93 m²**Lighting power density**
 $4.53 \text{ W/m}^2 = 1.49 \text{ W/m}^2/100 \text{ lx (Room)}$ $E_{\text{perpendicular (Working plane)}}$
304 lx

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
2	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Building 1 · Përdhesa

Luminaire list Φ_{total}

152299 lm

 P_{total}

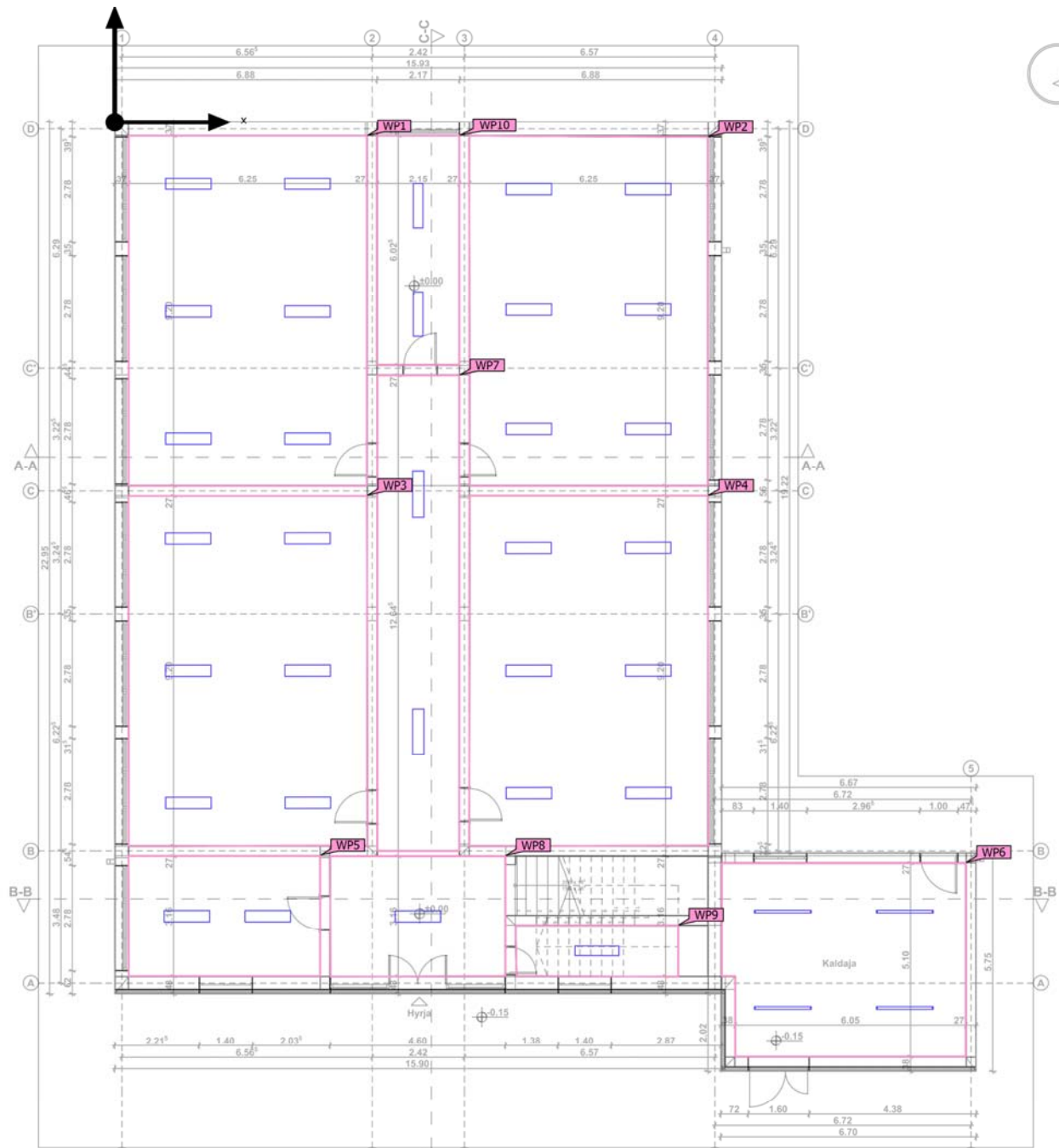
1260.9 W

Luminous efficacy

120.8 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	Not yet a DIALux member		"START Panel 1200x300 HE 4100L m 840 LILO" /4000	34.0 W	3930 lm	115.6 lm/W
29	Not yet a DIALux member	0042695	4000K Ra80 START PANEL IP65 1200x300 4400lm 840 WHITE	36.1 W	4321 lm	119.7 lm/W
4	Not yet a DIALux member	0046371	START Waterproof Slim 1500 IP65 3800lm 840	28.0 W	3800 lm	135.7 lm/W

Building 1 · Përdhesa (Light scene 1)

Calculation objects

Building 1 · Përdhesa (Light scene 1)

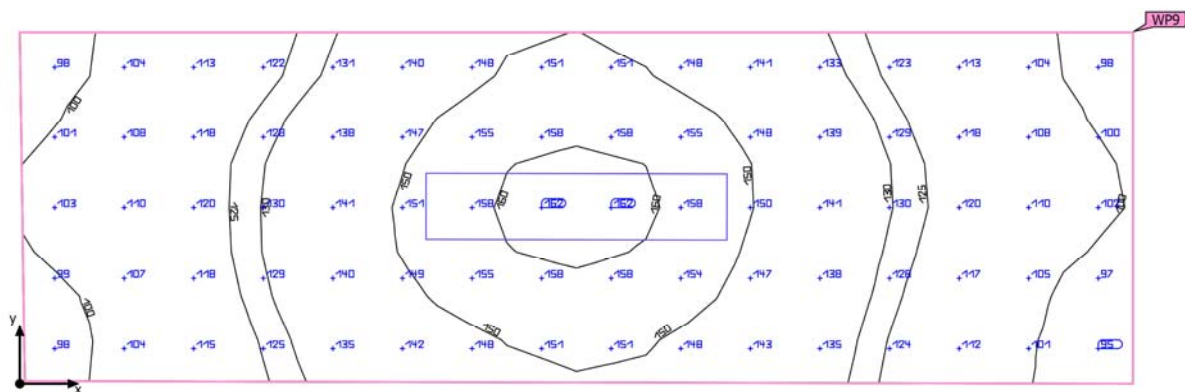
Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase mesimi 1) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	307 lx (≥ 300 lx) ✓	172 lx	405 lx	0.56 (≥ 0.50) ✓	0.42	WP1
Working plane (Klase mesimi 2) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	311 lx (≥ 300 lx) ✓	156 lx	413 lx	0.50 (≥ 0.50) ✓	0.38	WP2
Working plane (Klase mesimi 3) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	303 lx (≥ 300 lx) ✓	181 lx	397 lx	0.60 (≥ 0.50) ✓	0.46	WP3
Working plane (Klase mesimi 4) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	308 lx (≥ 300 lx) ✓	158 lx	412 lx	0.51 (≥ 0.50) ✓	0.38	WP4
Working plane (Zyre e arsimtareve) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	304 lx (≥ 300 lx) ✓	150 lx	445 lx	0.49 (≥ 0.45) ✓	0.34	WP5
Working plane (Dhome teknike) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	209 lx (≥ 200 lx) ✓	122 lx	251 lx	0.58 (≥ 0.50) ✓	0.49	WP6
Working plane (Koridori) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	136 lx (≥ 100 lx) ✓	65.8 lx	209 lx	0.48 (≥ 0.40) ✓	0.31	WP7
Working plane (Koridori) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	138 lx (≥ 100 lx) ✓	80.9 lx	196 lx	0.59 (≥ 0.40) ✓	0.41	WP8
Working plane (Dhoma e teknikeve) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	130 lx (≥ 100 lx) ✓	94.7 lx	161 lx	0.73 (≥ 0.40) ✓	0.59	WP9
Working plane (Zyre) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	243 lx (≥ 100 lx) ✓	134 lx	304 lx	0.55 (≥ 0.40) ✓	0.44	WP10

Building 1 · Përdhesa · Dhoma e teknikeve (Light scene 1)

Summary



Ground area	5.72 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 52.8 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	3.200 m
Mounting height	3.200 m
Height _{Working plane}	0.000 m
Wall zone _{Working plane}	0.000 m

Building 1 · Përdhesa · Dhoma e teknikeve (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	130 lx	≥ 100 lx	✓	WP9
	g_1	0.73	≥ 0.40	✓	WP9
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	17	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	37.4 kWh/a	max. 250 kWh/a	✓	
Room	Lighting power density	5.94 W/m ²	–		
		4.57 W/m ² /100 lx	–		

(1) Based on a rectangular space of 1.350 m x 4.265 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

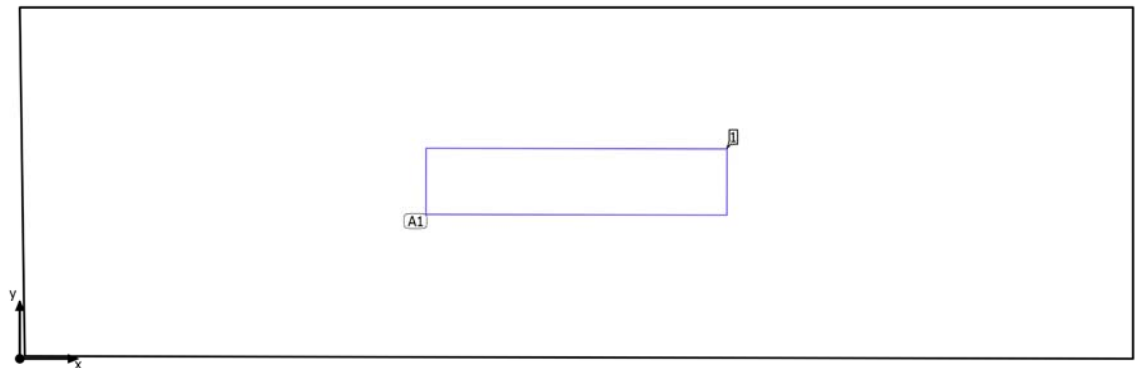
Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

Luminaire list

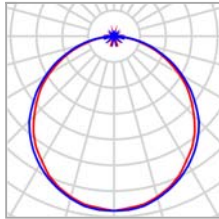
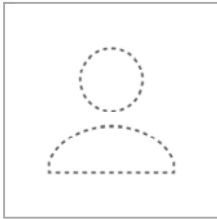
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
1	Not yet a DIALux member		"START Panel 1200x300 HE 4100L m 840 LILO" /4000	17	34.0 W	3930 lm	115.6 lm/W

Building 1 · Përdhesa · Dhoma e teknikeve

Luminaire layout plan



Building 1 · Përdhesa · Dhoma e teknikeve

Luminaire layout plan

Manufacturer	Not yet a DIALux member
Article name	"START Panel 1200x300 HE 4100L m 840 LILO" /4000
Fitting	1x LED/4000

P	34.0 W
$\Phi_{\text{Luminaire}}$	3930 lm

1 x Not yet a DIALux member "START Panel 1200x300 HE 4100L m 840 LILO" /4000

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	2.133 m / 0.680 m / 3.200 m	2.133 m	0.680 m	3.200 m	1
X-direction	1 pcs., Center - center, 4.268 m				
Y-direction	1 pcs., Center - center, 1.350 m				
Arrangement	A1				

Building 1 · Përdhesa · Dhoma e teknikeve

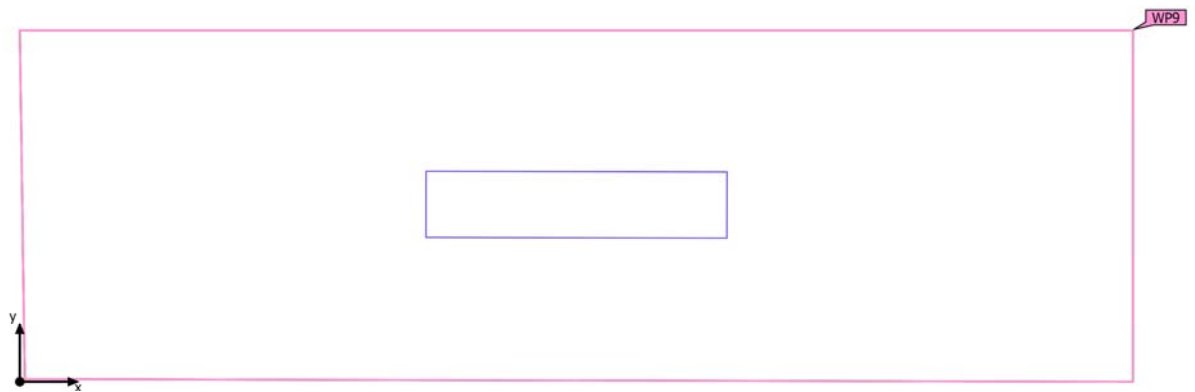
Luminaire list

Φ_{total} 3930 lm	P_{total} 34.0 W	Luminous efficacy 115.6 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	Not yet a DIALux member		"START Panel 1200x300 HE 4100L m 840 LILO" /4000	34.0 W	3930 lm	115.6 lm/W

Building 1 · Përdhesa · Dhoma e teknikeve (Light scene 1)

Calculation objects



Building 1 · Përdhesa · Dhoma e teknikeve (Light scene 1)

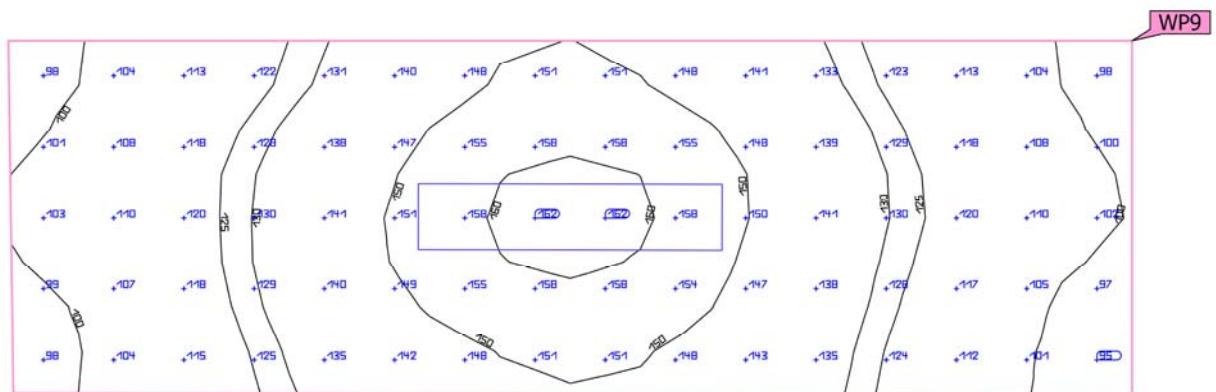
Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Dhoma e teknikeve) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	130 lx (≥ 100 lx) ✓	94.7 lx	161 lx	0.73 (≥ 0.40) ✓	0.59	WP9

Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

Building 1 · Përdhesa · Dhoma e teknikeve (Light scene 1)

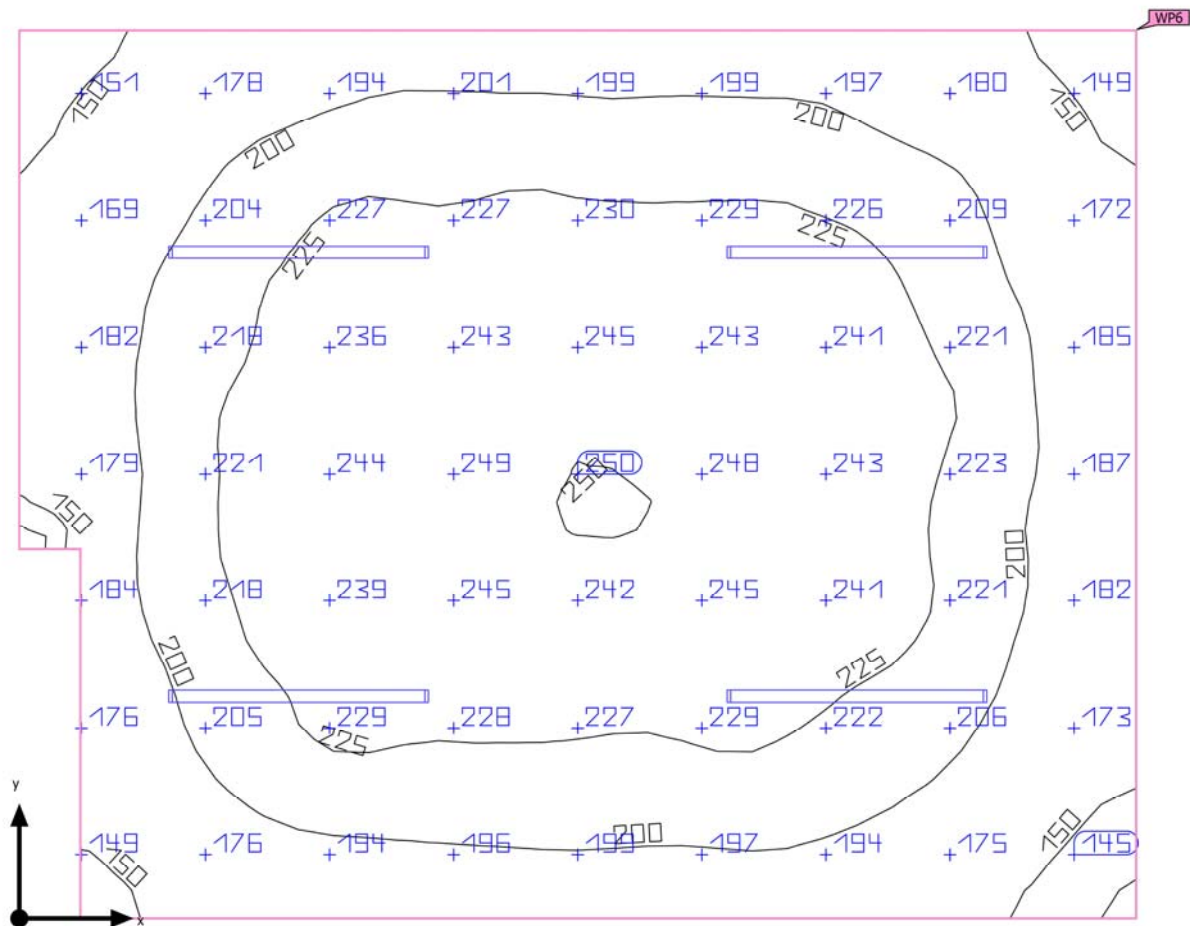
Working plane (Dhoma e teknikeve)

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Dhoma e teknikeve) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	130 lx (≥ 100 lx) ✓	94.7 lx	161 lx	0.73 (≥ 0.40) ✓	0.59	WP9

Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

Building 1 · Përdhesa · Dhome teknike (Light scene 1)

Summary



Ground area	31.90 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.200 m
Mounting height	3.200 m
Height _{Working plane}	0.000 m
Wall zone _{Working plane}	0.000 m

Building 1 · Përdhesa · Dhome teknike (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$E_{\text{perpendicular}}$	209 lx	≥ 200 lx	✓	WP6
	g_1	0.58	≥ 0.50	✓	WP6
Consumption values ⁽²⁾	Consumption	123 kWh/a	max. 1150 kWh/a	✓	
Room	Lighting power density	3.51 W/m ²	–		
		1.68 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.400 m x 5.100 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

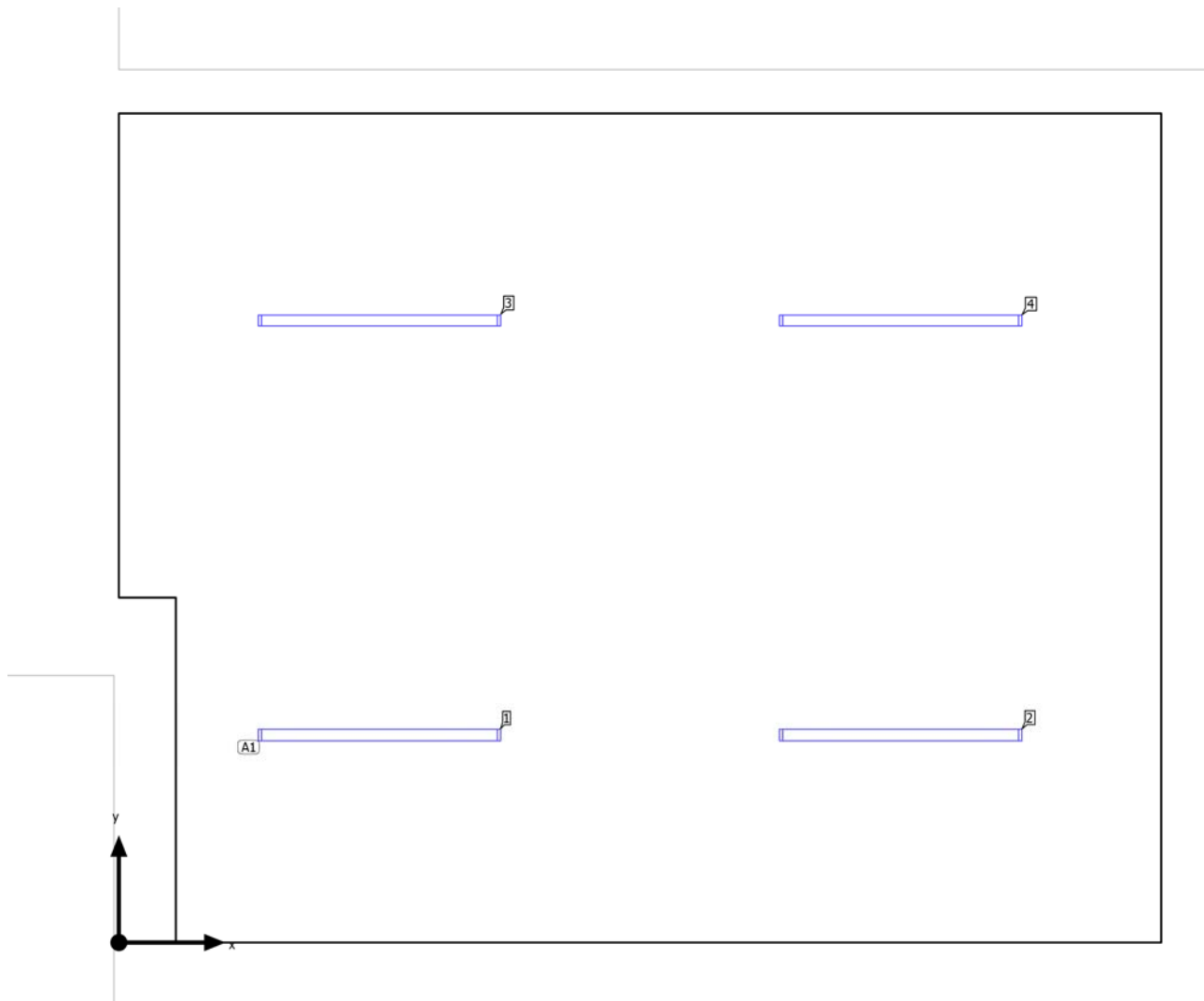
Utilization profile: Health care premises - Rooms for general use (5.37.5 Multipurpose corridors)

Luminaire list

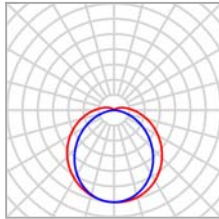
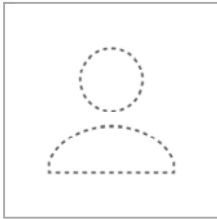
pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0046371	START Waterproof Slim 1500 IP65 3800lm 840	–	28.0 W	3800 lm	135.7 lm/W

Building 1 · Përdhesa · Dhome teknike

Luminaire layout plan



Building 1 · Përdhesa · Dhome teknike

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	28.0 W
Article No.	0046371	$\Phi_{\text{Luminaire}}$	3800 lm
Article name	START Waterproof Slim 1500 IP65 3800lm 840		
Fitting	1x 0046371 START Waterproof Slim 1500 IP65 3800lm 840		

4 x Not yet a DIALux member START Waterproof Slim 1500 IP65 3800lm 840

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.600 m / 1.275 m / 3.200 m	1.600 m	1.275 m	3.200 m	1
X-direction	2 pcs., Center - center, 3.200 m	4.800 m	1.275 m	3.200 m	2
Y-direction	2 pcs., Center - center, 2.550 m	1.600 m	3.825 m	3.200 m	3
		4.800 m	3.825 m	3.200 m	4
Arrangement	A1				

Building 1 · Përdhësa · Dhome teknike

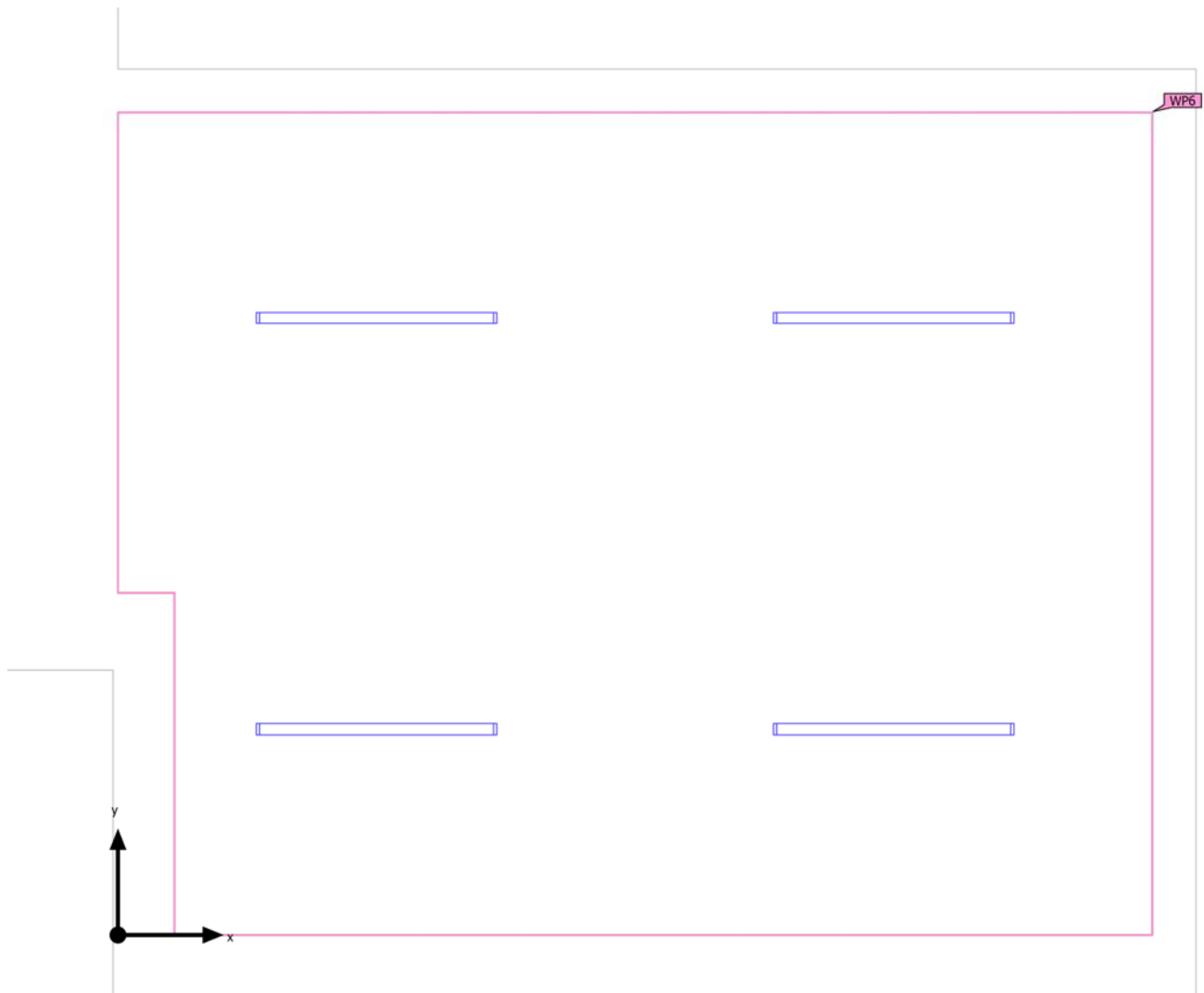
Luminaire list

Φ_{total} 15200 lm	P_{total} 112.0 W	Luminous efficacy 135.7 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0046371	START Waterproof Slim 1500 IP65 3800lm 840	28.0 W	3800 lm	135.7 lm/W

Building 1 · Përdhesa · Dhome teknike (Light scene 1)

Calculation objects



Building 1 · Përdhesa · Dhome teknike (Light scene 1)

Calculation objects

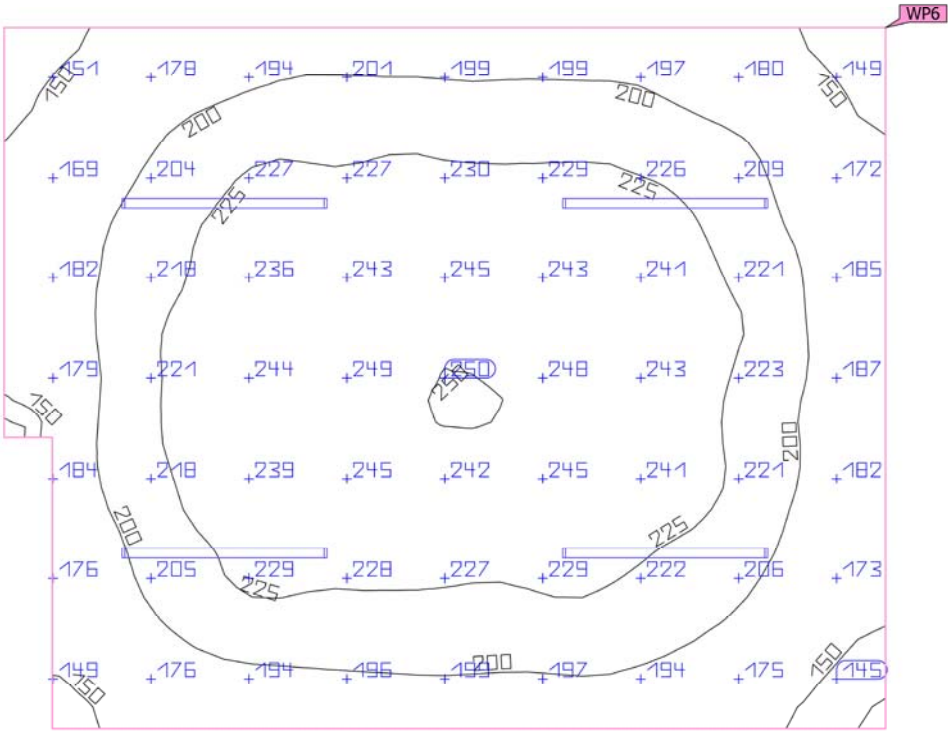
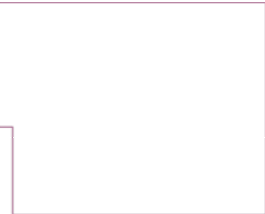
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Dhome teknike) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	209 lx (≥ 200 lx) ✓	122 lx	251 lx	0.58 (≥ 0.50) ✓	0.49	WP6

Utilization profile: Health care premises - Rooms for general use (5.37.5 Multipurpose corridors)

Building 1 · Përdhesa · Dhome teknike (Light scene 1)

Working plane (Dhome teknike)

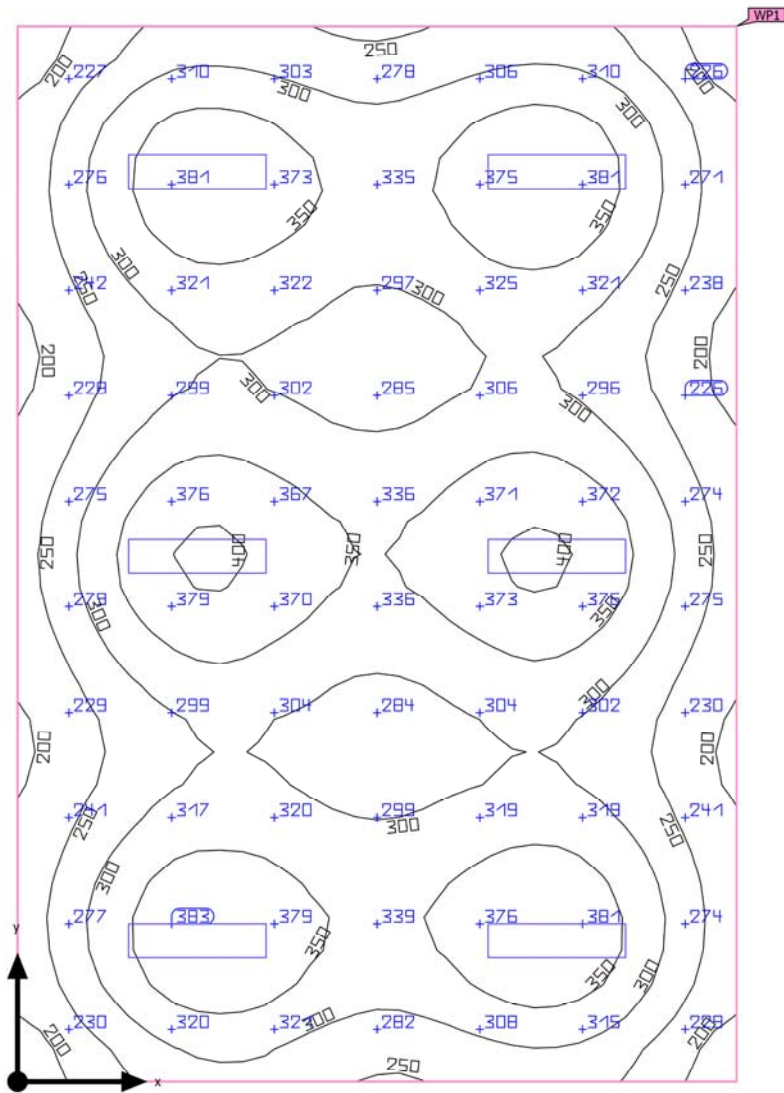


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Dhome teknike)	209 lx	122 lx	251 lx	0.58	0.49	WP6
Perpendicular illuminance (adaptive)	(≥ 200 lx)			(≥ 0.50)		
Height: 0.000 m, Wall zone: 0.000 m	✓			✓		

Utilization profile: Health care premises - Rooms for general use (5.37.5 Multipurpose corridors)

Building 1 · Përdhesa · Klase mesimi 1 (Light scene 1)

Summary



Ground area	57.50 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	3.200 m
Mounting height	3.200 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

Building 1 · Perdhesa · Klase mesimi 1 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	307 lx	≥ 300 lx	✓	WP1
	g_1	0.56	≥ 0.50	✓	WP1
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	18	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	288 kWh/a	max. 2050 kWh/a	✓	
Room	Lighting power density	3.77 W/m ²	–		
		1.23 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.250 m x 9.200 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

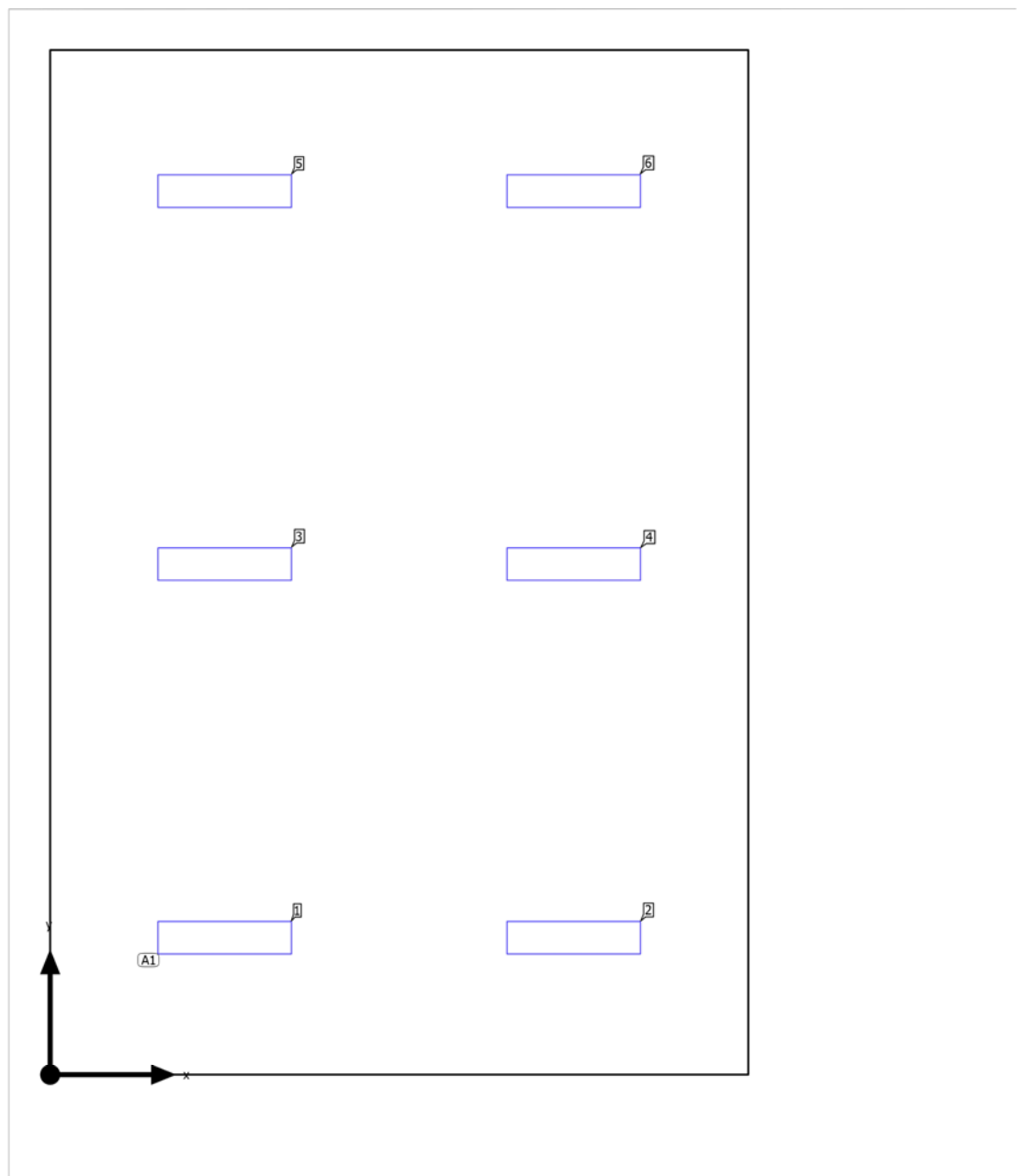
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

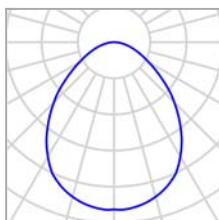
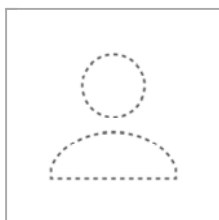
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	18	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Klase mesimi 1

Luminaire layout plan



Building 1 · Përdhesa · Klase mesimi 1

Luminaire layout plan

Manufacturer	Not yet a DIALux member
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE
Article name	4000K Ra80
Fitting	1x

P	36.1 W
$\Phi_{\text{Luminaire}}$	4321 lm

6 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.562 m / 1.233 m / 3.200 m	1.562 m	1.233 m	3.200 m	1
X-direction	2 pcs., Center - center, Distances not equal	4.687 m	1.233 m	3.200 m	2
		1.562 m	4.581 m	3.200 m	3
Y-direction	3 pcs., Center - center, Distances not equal	4.687 m	4.581 m	3.200 m	4
		1.562 m	7.930 m	3.200 m	5
Arrangement	A1	4.687 m	7.930 m	3.200 m	6

Building 1 · Përdhësa · Klase mesimi 1

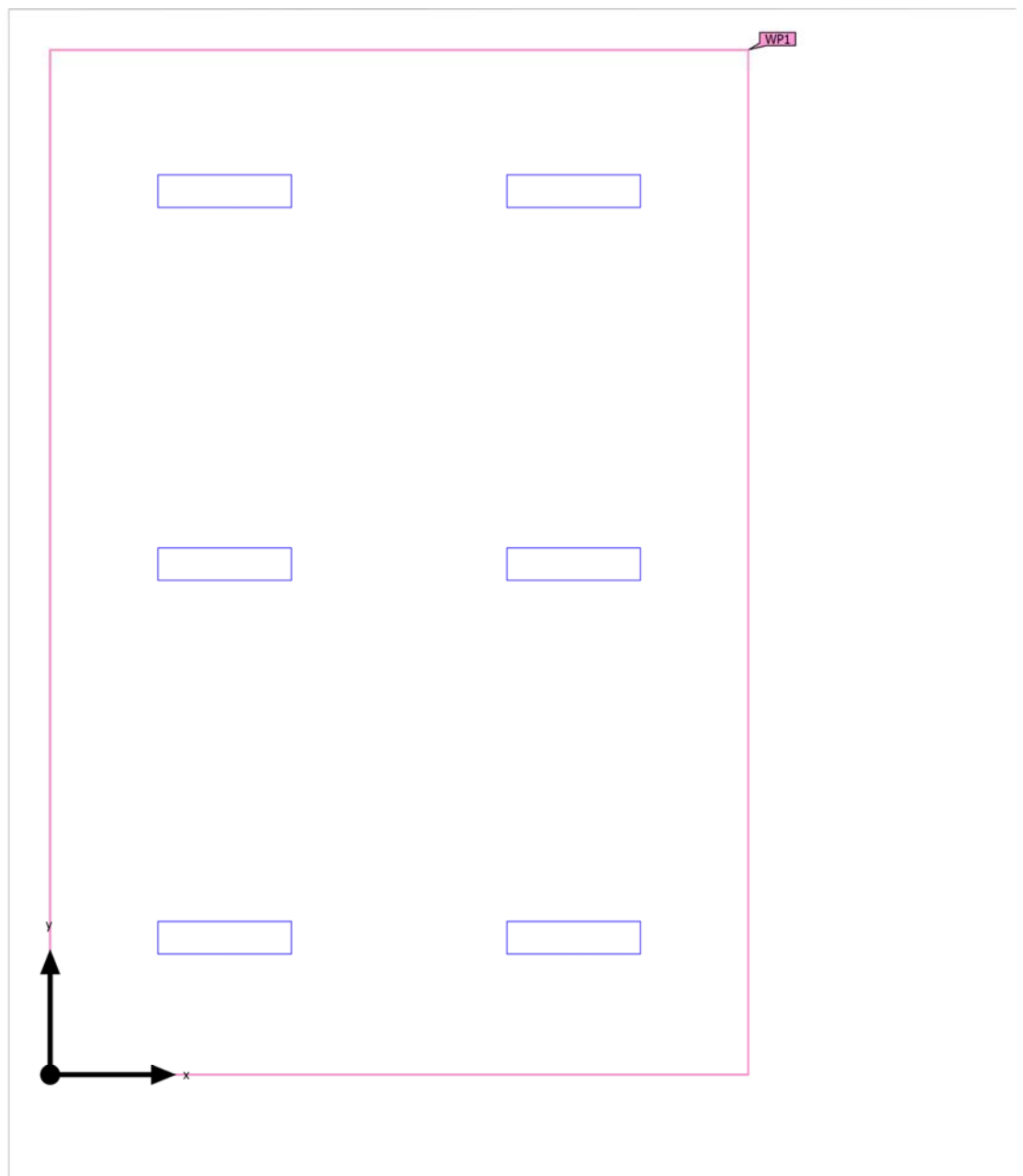
Luminaire list

Φ_{total} 25926 lm	P_{total} 216.6 W	Luminous efficacy 119.7 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Klase mesimi 1 (Light scene 1)

Calculation objects



Building 1 · Përdhesa · Klase mesimi 1 (Light scene 1)

Calculation objects

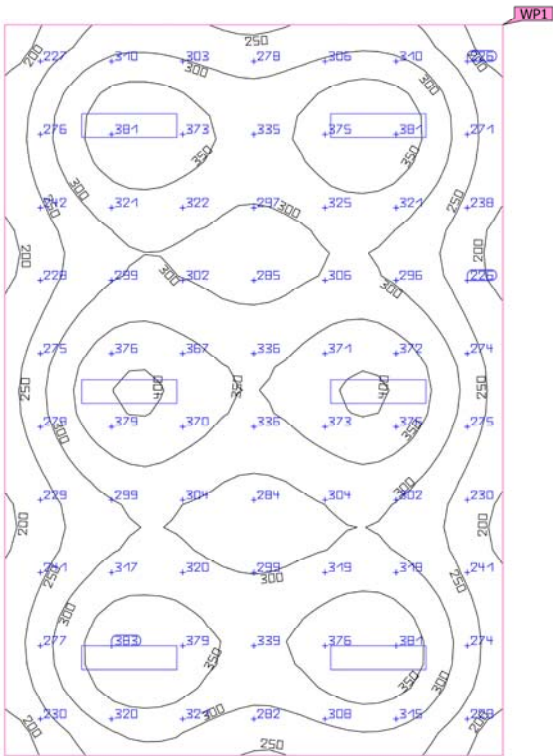
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase mesimi 1) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	307 lx (≥ 300 lx) ✓	172 lx	405 lx	0.56 (≥ 0.50) ✓	0.42	WP1

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

Building 1 · Përdhesa · Klase mesimi 1 (Light scene 1)

Working plane (Klase mesimi 1)

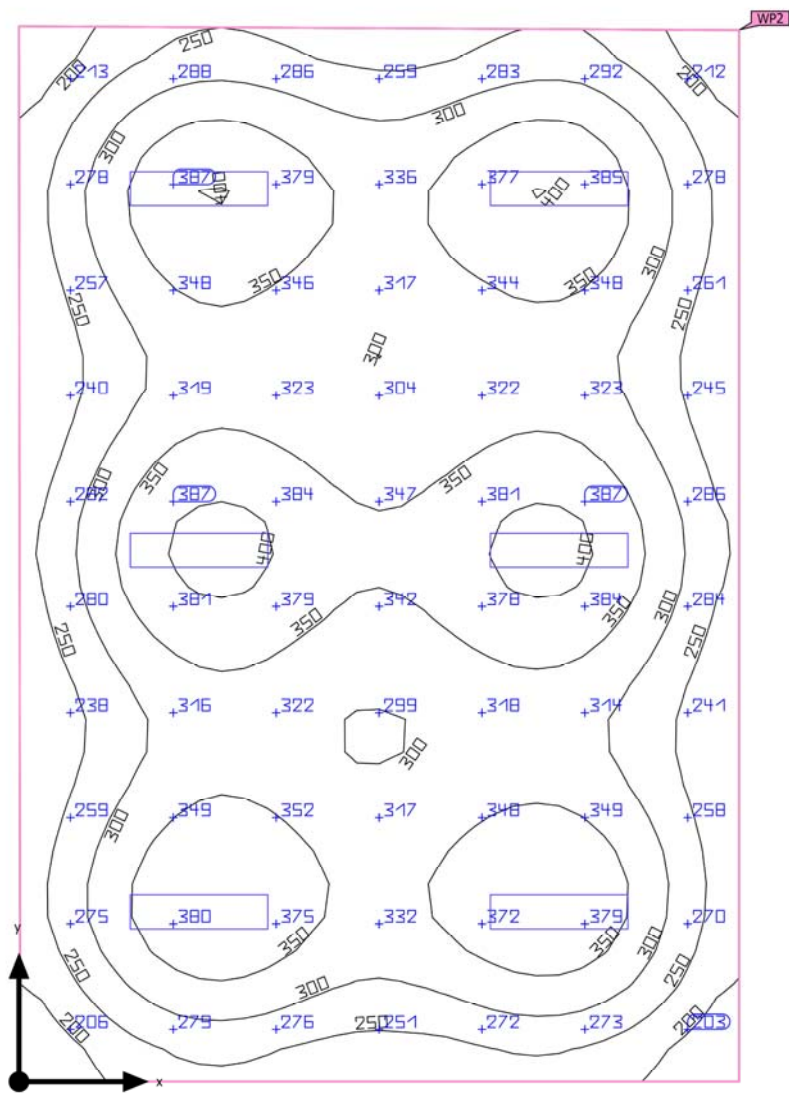


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase mesimi 1) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	307 lx (≥ 300 lx) ✓	172 lx	405 lx	0.56 (≥ 0.50) ✓	0.42	WP1

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

Building 1 · Përdhesa · Klase mesimi 2 (Light scene 1)

Summary



Ground area	57.44 m ²	Clearance height	3.200 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.200 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

Building 1 · Perdhesa · Klase mesimi 2 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	311 lx	≥ 300 lx	✓	WP2
	g_1	0.50	≥ 0.50	✓	WP2
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	18	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	288 kWh/a	max. 2050 kWh/a	✓	
Room	Lighting power density	3.77 W/m ²	–		
		1.21 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.260 m x 9.200 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

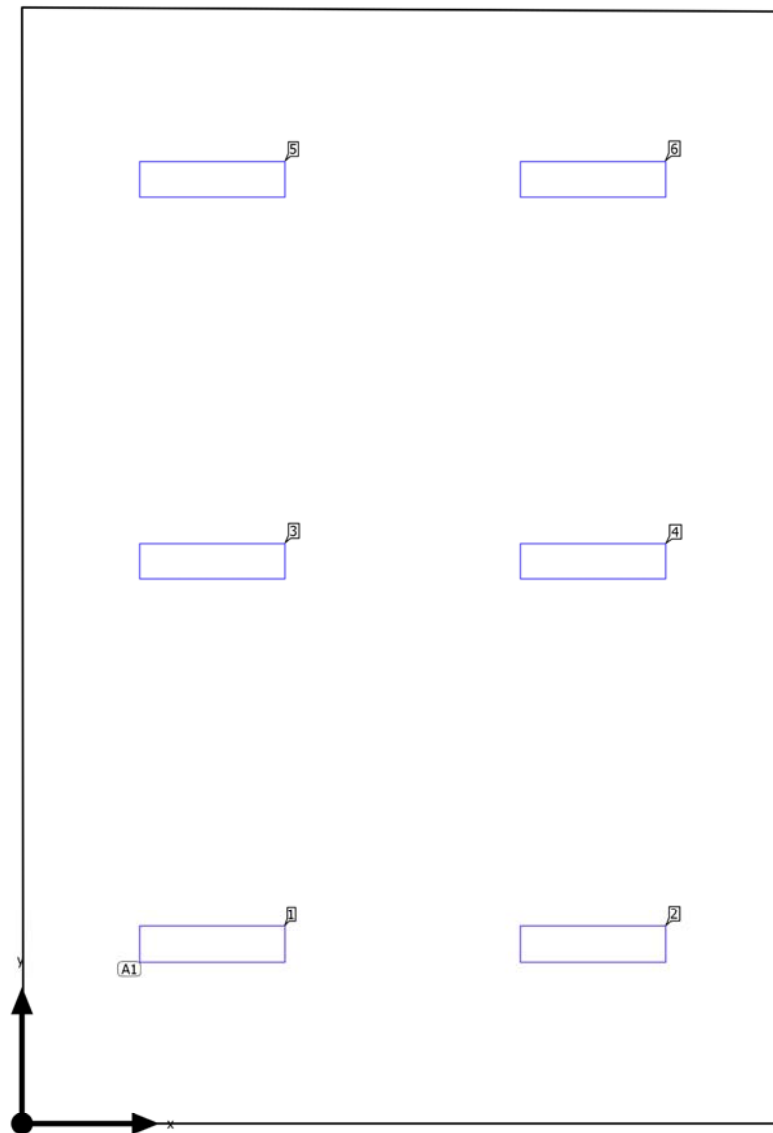
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

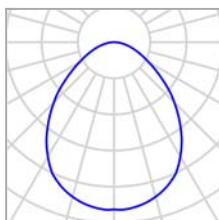
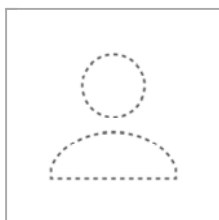
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	18	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Klase mesimi 2

Luminaire layout plan



Building 1 · Përdhësa · Klase mesimi 2

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	36.1 W
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	$\Phi_{\text{Luminaire}}$	4321 lm
Article name	4000K Ra80		
Fitting	1x		

6 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.565 m / 1.483 m / 3.200 m	1.565 m	1.483 m	3.200 m	1
X-direction	2 pcs., Center - center, Distances not equal	4.695 m	1.483 m	3.200 m	2
		1.565 m	4.633 m	3.200 m	3
Y-direction	3 pcs., Center - center, Distances not equal	4.695 m	4.633 m	3.200 m	4
		1.565 m	7.782 m	3.200 m	5
Arrangement	A1	4.695 m	7.782 m	3.200 m	6

Building 1 · Përdhësa · Klase mesimi 2

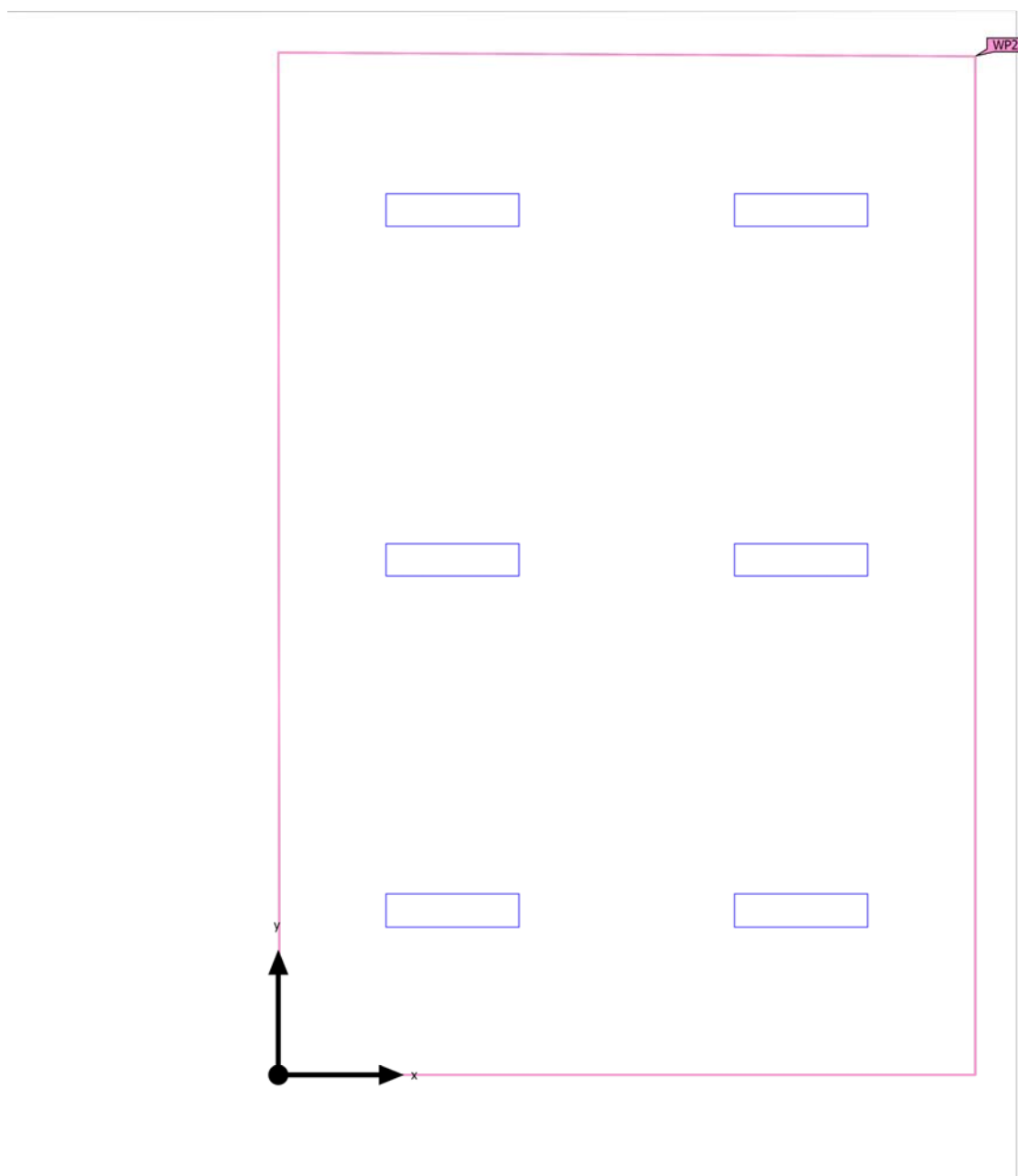
Luminaire list

Φ_{total} 25926 lm	P_{total} 216.6 W	Luminous efficacy 119.7 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Klase mesimi 2 (Light scene 1)

Calculation objects



Building 1 · Përdhesa · Klase mesimi 2 (Light scene 1)

Calculation objects

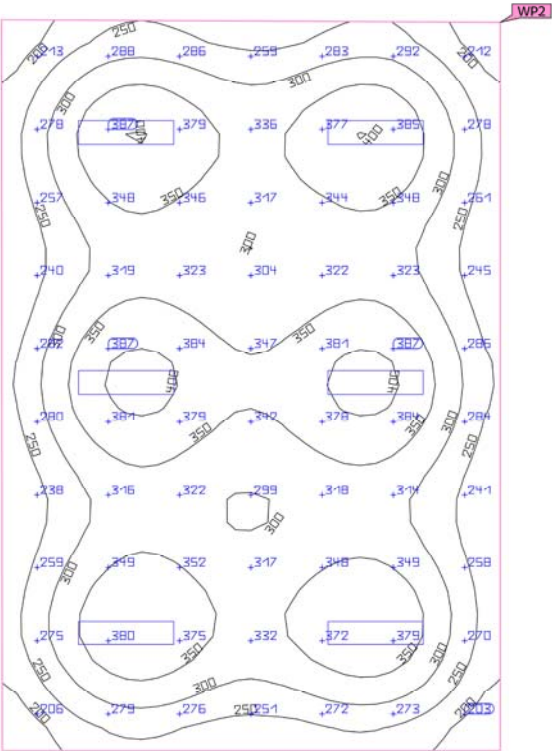
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase mesimi 2) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	311 lx (≥ 300 lx) ✓	156 lx	413 lx	0.50 (≥ 0.50) ✓	0.38	WP2

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

Building 1 · Përdhesa · Klase mesimi 2 (Light scene 1)

Working plane (Klase mesimi 2)

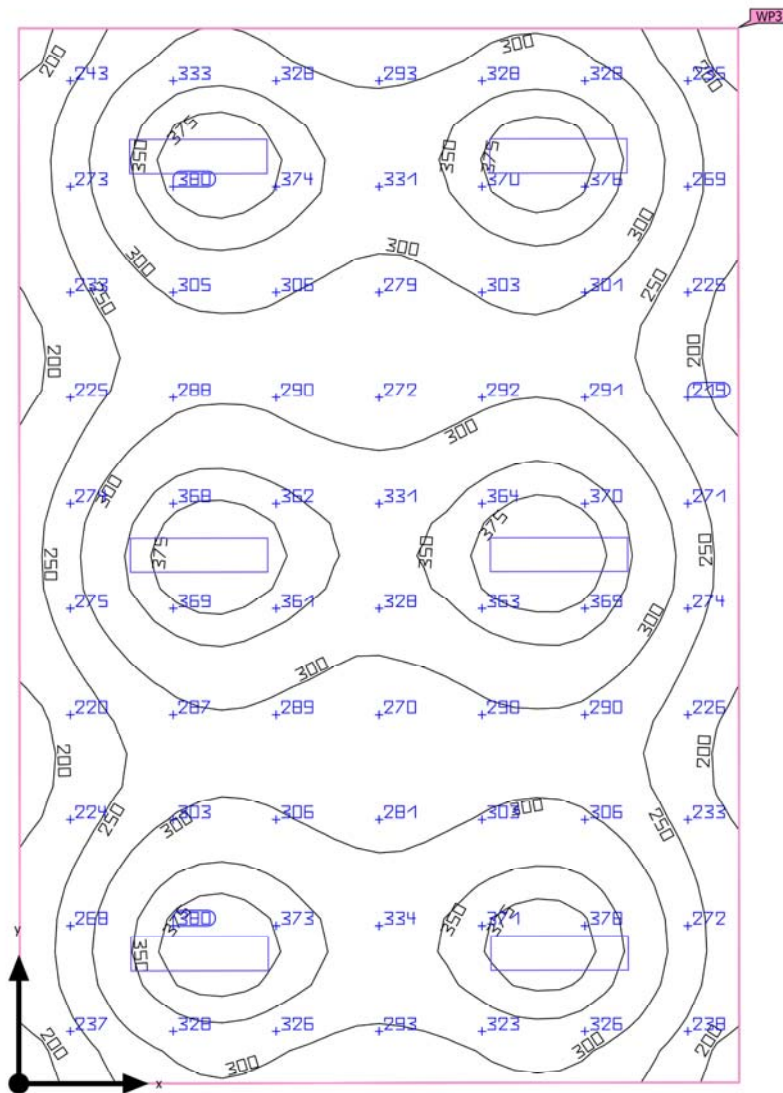


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase mesimi 2)	311 lx	156 lx	413 lx	0.50	0.38	WP2
Perpendicular illuminance (adaptive)	≥ 300 lx			≥ 0.50		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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

Building 1 · Përdhesa · Klase mesimi 3 (Light scene 1)

Summary



Ground area	57.62 m ²	Clearance height	3.200 m
Reflection factors	Ceiling: 70.0 %, Walls: 57.4 %, Floor: 20.0 %	Mounting height	3.200 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

Building 1 · Perdhesa · Klase mesimi 3 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	303 lx	≥ 300 lx	✓	WP3
	g_1	0.60	≥ 0.50	✓	WP3
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	18	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	288 kWh/a	max. 2050 kWh/a	✓	
Room	Lighting power density	3.76 W/m ²	–		
		1.24 W/m ² /100 lx	–		

(1) Based on a rectangular space of 9.210 m x 6.260 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

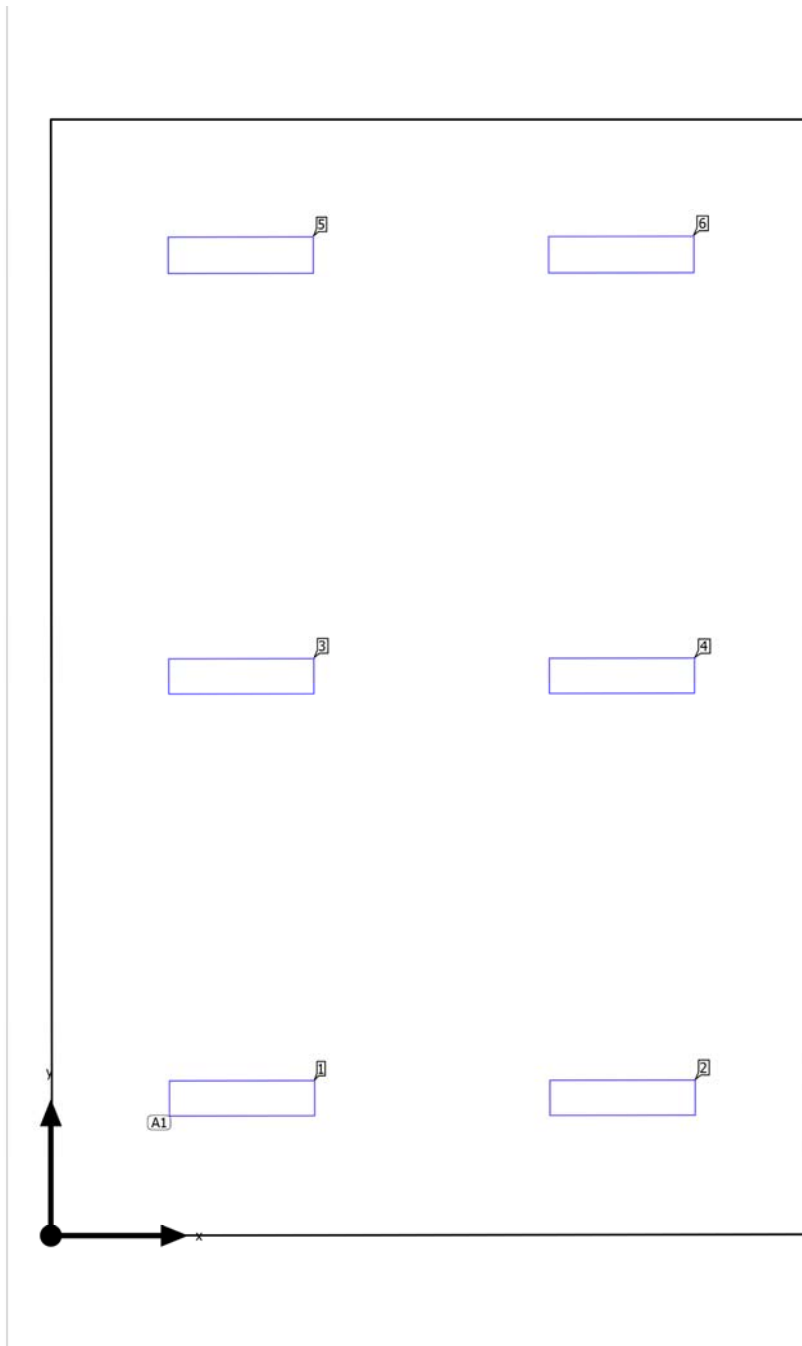
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

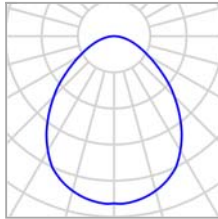
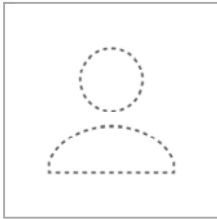
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	18	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Klase mesimi 3

Luminaire layout plan



Building 1 · Përdhësa · Klase mesimi 3

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	36.1 W
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	$\Phi_{\text{Luminaire}}$	4321 lm
Article name	4000K Ra80		
Fitting	1x		

6 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.574 m / 1.138 m / 3.200 m	1.574 m	1.138 m	3.200 m	1
X-direction	2 pcs., Center - center, Distances not equal	4.706 m	1.143 m	3.200 m	2
		1.568 m	4.612 m	3.200 m	3
Y-direction	3 pcs., Center - center, Distances not equal	4.700 m	4.618 m	3.200 m	4
		1.562 m	8.087 m	3.200 m	5
Arrangement	A1	4.695 m	8.092 m	3.200 m	6

Building 1 · Përdhësa · Klase mesimi 3

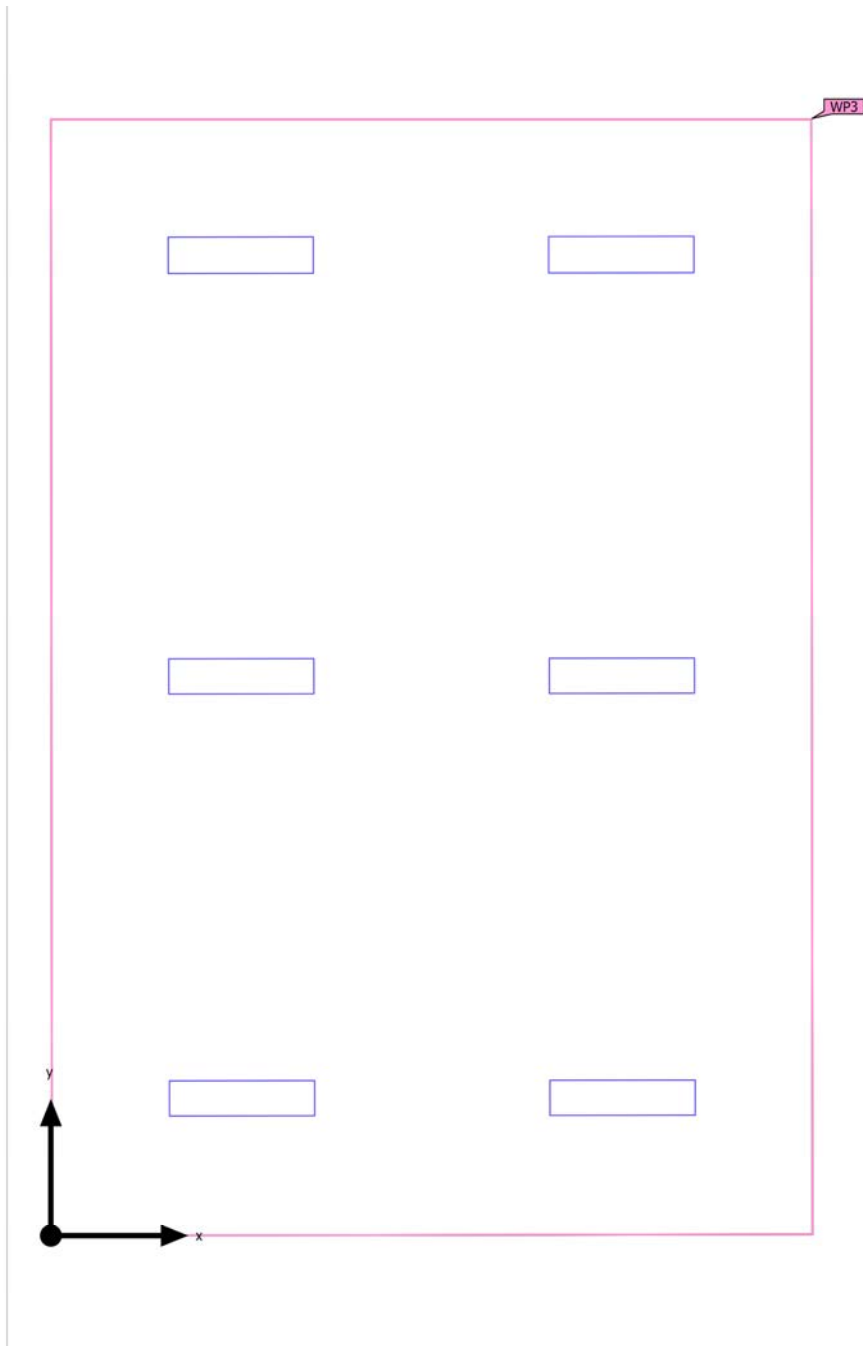
Luminaire list

Φ_{total} 25926 lm	P_{total} 216.6 W	Luminous efficacy 119.7 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Klase mesimi 3 (Light scene 1)

Calculation objects



Building 1 · Përdhesa · Klase mesimi 3 (Light scene 1)

Calculation objects

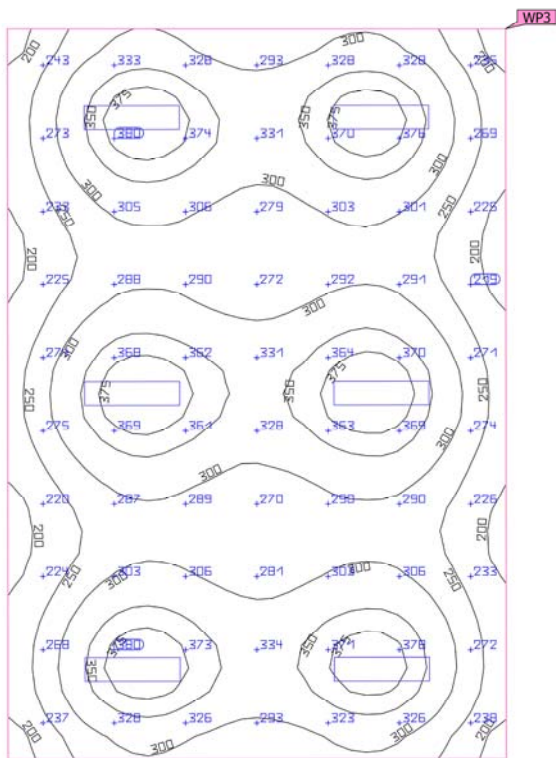
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase mesimi 3) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	303 lx (≥ 300 lx) ✓	181 lx	397 lx	0.60 (≥ 0.50) ✓	0.46	WP3

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

Building 1 · Përdhesa · Klase mesimi 3 (Light scene 1)

Working plane (Klase mesimi 3)

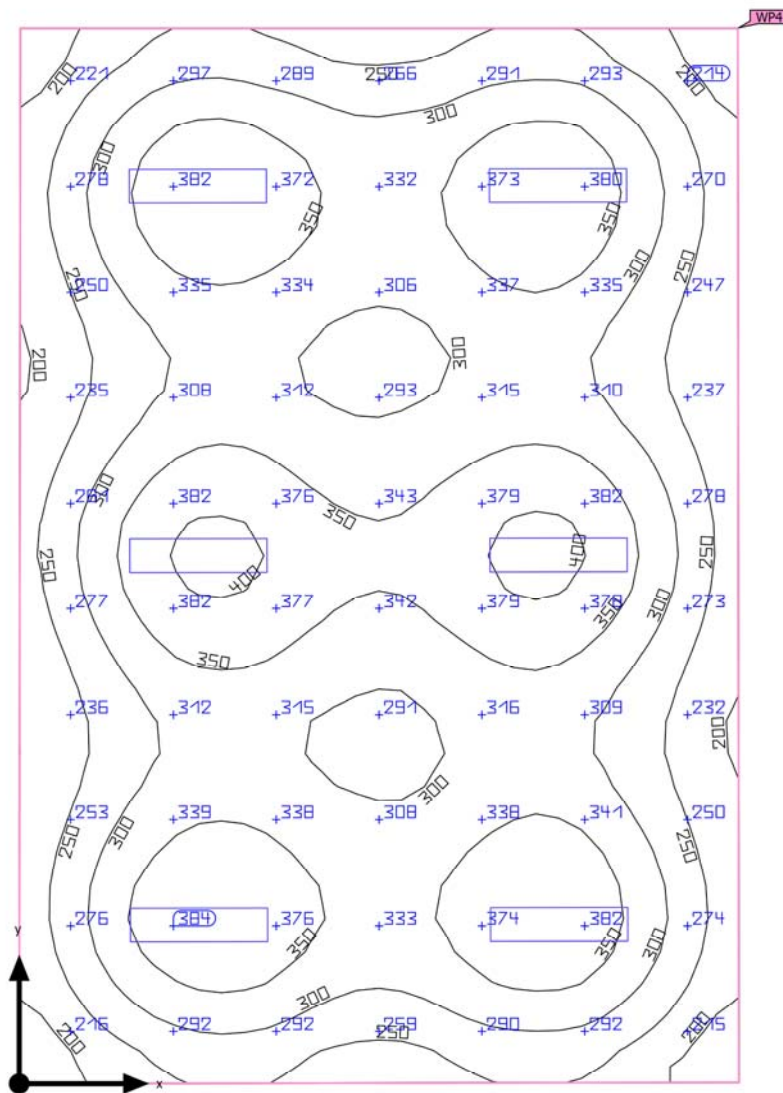


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase mesimi 3) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	303 lx (≥ 300 lx) ✓	181 lx	397 lx	0.60 (≥ 0.50) ✓	0.46	WP3

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

Building 1 · Përdhesa · Klase mesimi 4 (Light scene 1)

Summary



Ground area	57.69 m ²	Clearance height	3.200 m
Reflection factors	Ceiling: 70.0 %, Walls: 57.4 %, Floor: 20.0 %	Mounting height	3.200 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

Building 1 · Perdhesa · Klase mesimi 4 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	308 lx	$\geq 300 \text{ lx}$	✓	WP4
	g_1	0.51	≥ 0.50	✓	WP4
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	18	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	288 kWh/a	max. 2050 kWh/a	✓	
Room	Lighting power density	3.75 W/m ²	–		
		1.22 W/m ² /100 lx	–		

(1) Based on a rectangular space of 9.220 m x 6.270 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

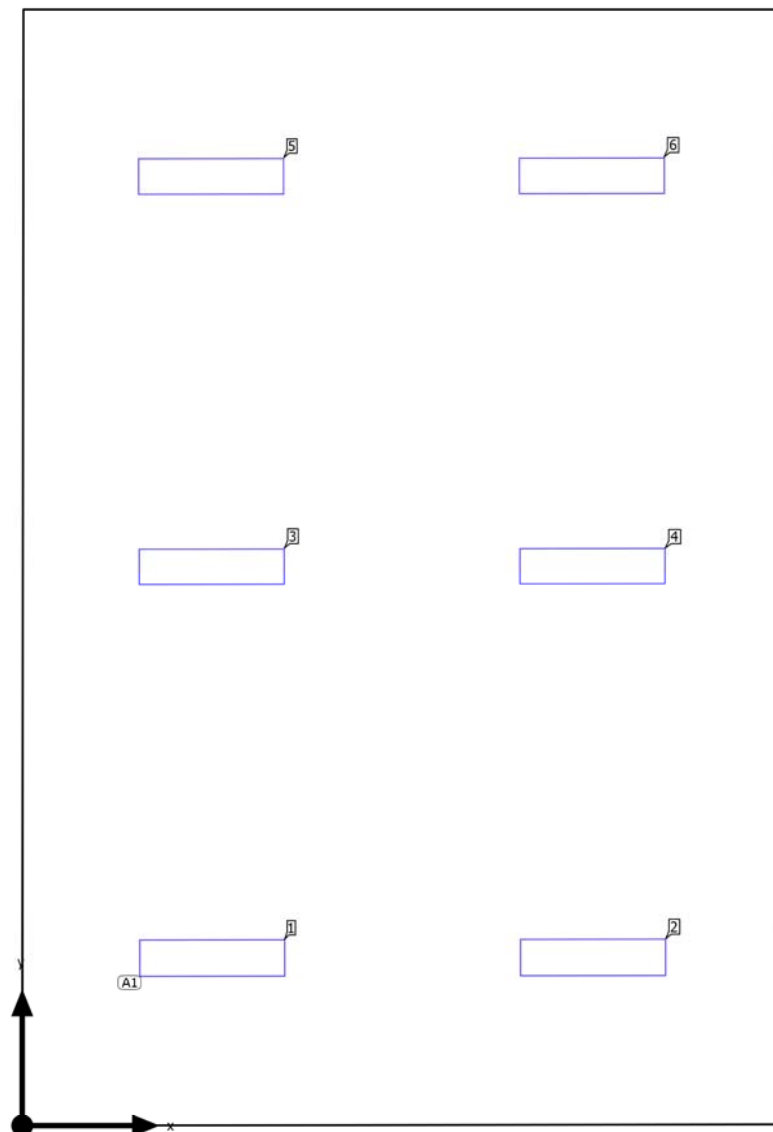
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

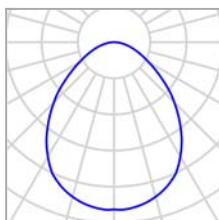
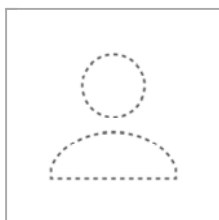
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	18	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Klase mesimi 4

Luminaire layout plan



Building 1 · Përdhësa · Klase mesimi 4

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	36.1 W
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	$\Phi_{\text{Luminaire}}$	4321 lm
Article name	4000K Ra80		
Fitting	1x		

6 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.566 m / 1.389 m / 3.200 m	1.566 m	1.389 m	3.200 m	1
X-direction	2 pcs., Center - center, Distances not equal	4.704 m	1.394 m	3.200 m	2
		1.561 m	4.614 m	3.200 m	3
Y-direction	3 pcs., Center - center, Distances not equal	4.699 m	4.619 m	3.200 m	4
		1.556 m	7.839 m	3.200 m	5
Arrangement	A1	4.694 m	7.844 m	3.200 m	6

Building 1 · Përdhësa · Klase mesimi 4

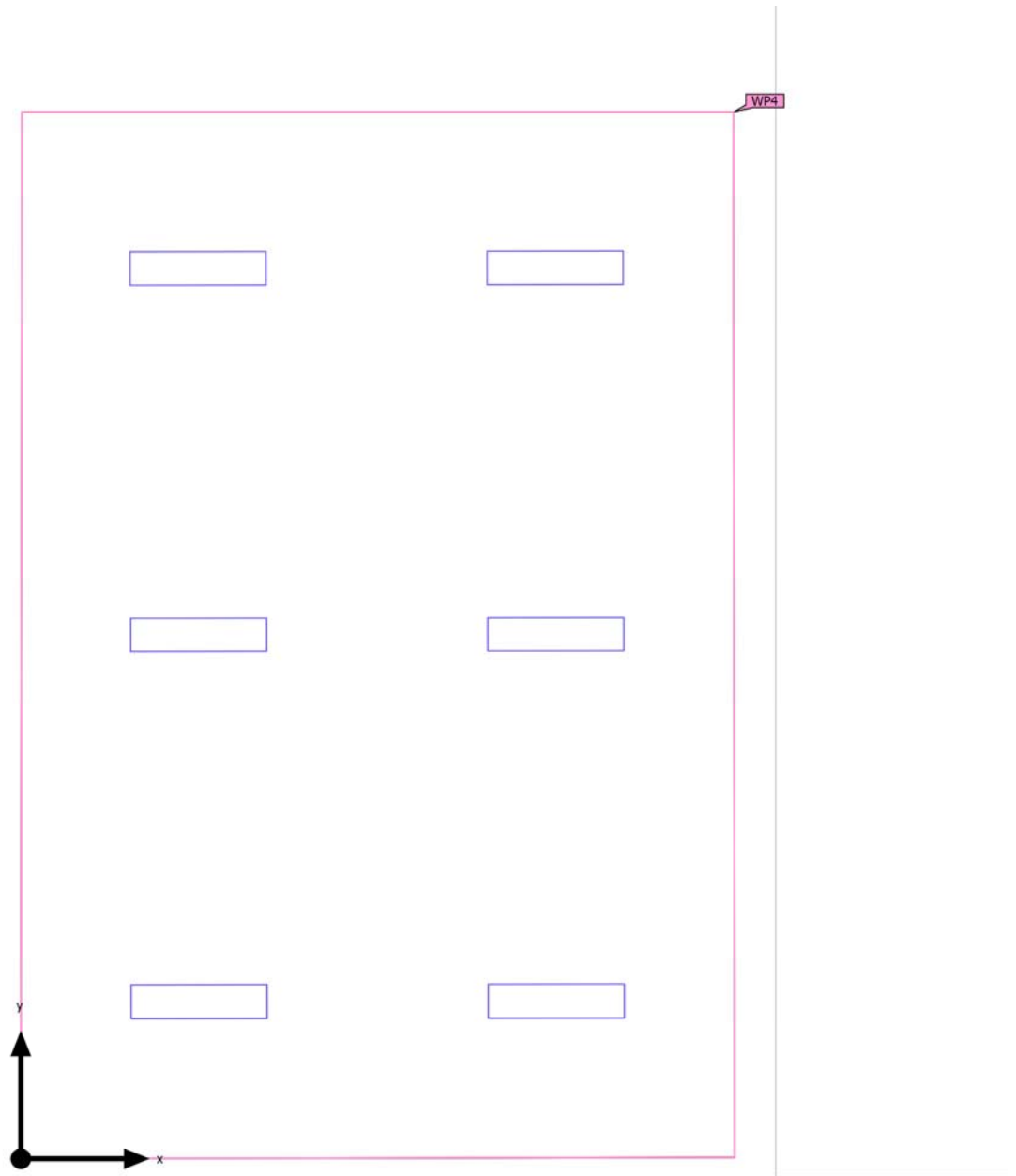
Luminaire list

Φ_{total} 25926 lm	P_{total} 216.6 W	Luminous efficacy 119.7 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Klase mesimi 4 (Light scene 1)

Calculation objects



Building 1 · Përdhesa · Klase mesimi 4 (Light scene 1)

Calculation objects

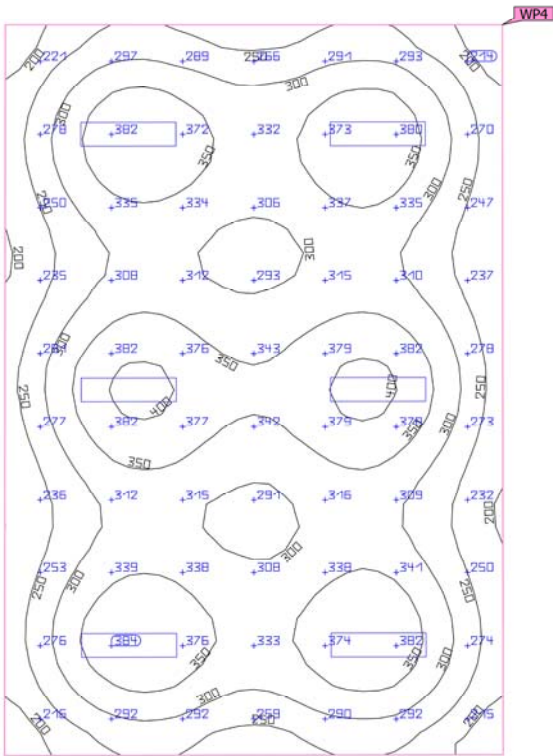
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase mesimi 4) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	308 lx (≥ 300 lx) ✓	158 lx	412 lx	0.51 (≥ 0.50) ✓	0.38	WP4

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

Building 1 · Përdhesa · Klase mesimi 4 (Light scene 1)

Working plane (Klase mesimi 4)

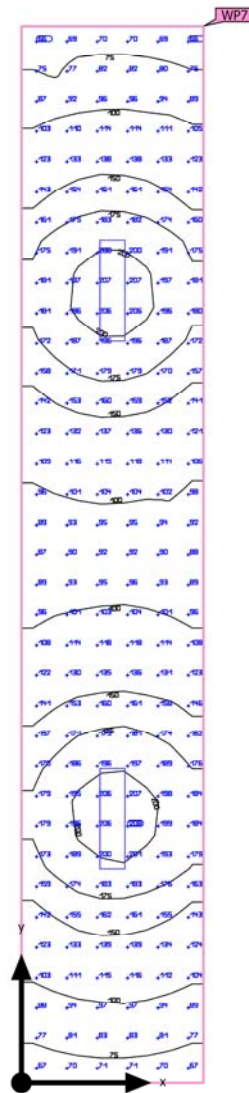


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase mesimi 4)	308 lx	158 lx	412 lx	0.51	0.38	WP4
Perpendicular illuminance (adaptive)	≥ 300 lx			≥ 0.50		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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

Building 1 · Përdhesa · Koridori (Light scene 1)

Summary



Ground area	26.90 m ²	Clearance height	3.200 m
Reflection factors	Ceiling: 70.0 %, Walls: 54.5 %, Floor: 20.0 %	Mounting height	3.200 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	0.000 m
		Wall zone _{Working plane}	0.000 m

Building 1 · Përdhësa · Koridori (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	136 lx	$\geq 100 \text{ lx}$	✓	WP7
	g_1	0.48	≥ 0.40	✓	WP7
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	18	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	79.4 kWh/a	max. 950 kWh/a	✓	
Room	Lighting power density	2.68 W/m ²	–		
		1.98 W/m ² /100 lx	–		

(1) Based on a rectangular space of 12.510 m x 2.150 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

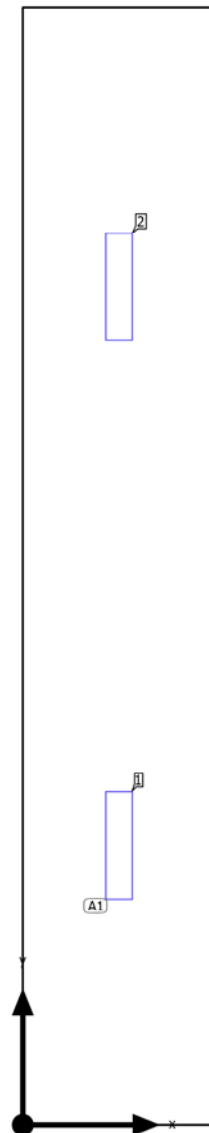
Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

Luminaire list

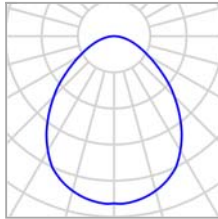
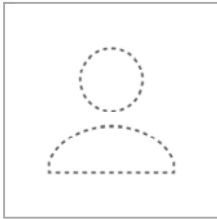
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
2	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	18	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Koridori

Luminaire layout plan



Building 1 · Përdhesa · Koridori

Luminaire layout plan

Manufacturer	Not yet a DIALux member
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE
Article name	4000K Ra80
Fitting	1x

P	36.1 W
$\Phi_{\text{Luminaire}}$	4321 lm

2 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.075 m / 3.128 m / 3.200 m	1.075 m	3.128 m	3.200 m	1
X-direction	1 pcs., Center - center, 2.150 m	1.075 m	9.383 m	3.200 m	2
Y-direction	2 pcs., Center - center, 6.255 m				
Arrangement	A1				

Building 1 · Përdhesa · Koridori

Luminaire list Φ_{total}

8642 lm

 P_{total}

72.2 W

Luminous efficacy

119.7 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Koridori (Light scene 1)

Calculation objects



Building 1 · Perdhesa · Koridori (Light scene 1)

Calculation objects

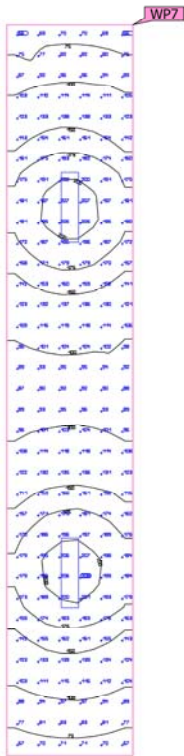
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridori) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	136 lx (≥ 100 lx) ✓	65.8 lx	209 lx	0.48 (≥ 0.40) ✓	0.31	WP7

Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

Building 1 · Përdhesa · Koridori (Light scene 1)

Working plane (Koridori)

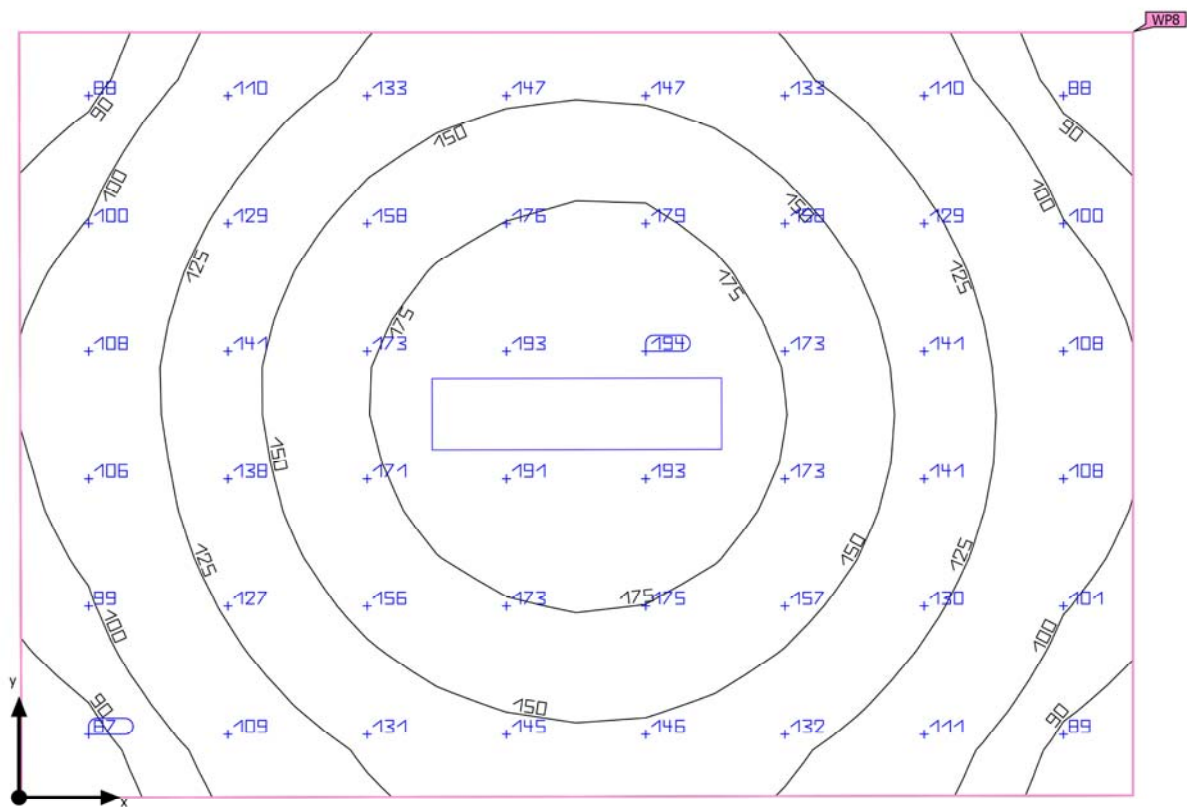


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridori) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	136 lx (≥ 100 lx) ✓	65.8 lx	209 lx	0.48 (≥ 0.40) ✓	0.31	WP7

Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

Building 1 · Përdhesa · Koridori (Light scene 1)

Summary



Ground area	14.54 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	3.200 m
Mounting height	3.200 m
Height _{Working plane}	0.000 m
Wall zone _{Working plane}	0.000 m

Building 1 · Përdhesa · Koridori (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	138 lx	$\geq 100 \text{ lx}$	✓	WP8
	g_1	0.59	≥ 0.40	✓	WP8
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	16	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	39.7 kWh/a	max. 550 kWh/a	✓	
Room	Lighting power density	2.48 W/m ²	–		
		1.80 W/m ² /100 lx	–		

(1) Based on a rectangular space of 3.170 m x 4.600 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

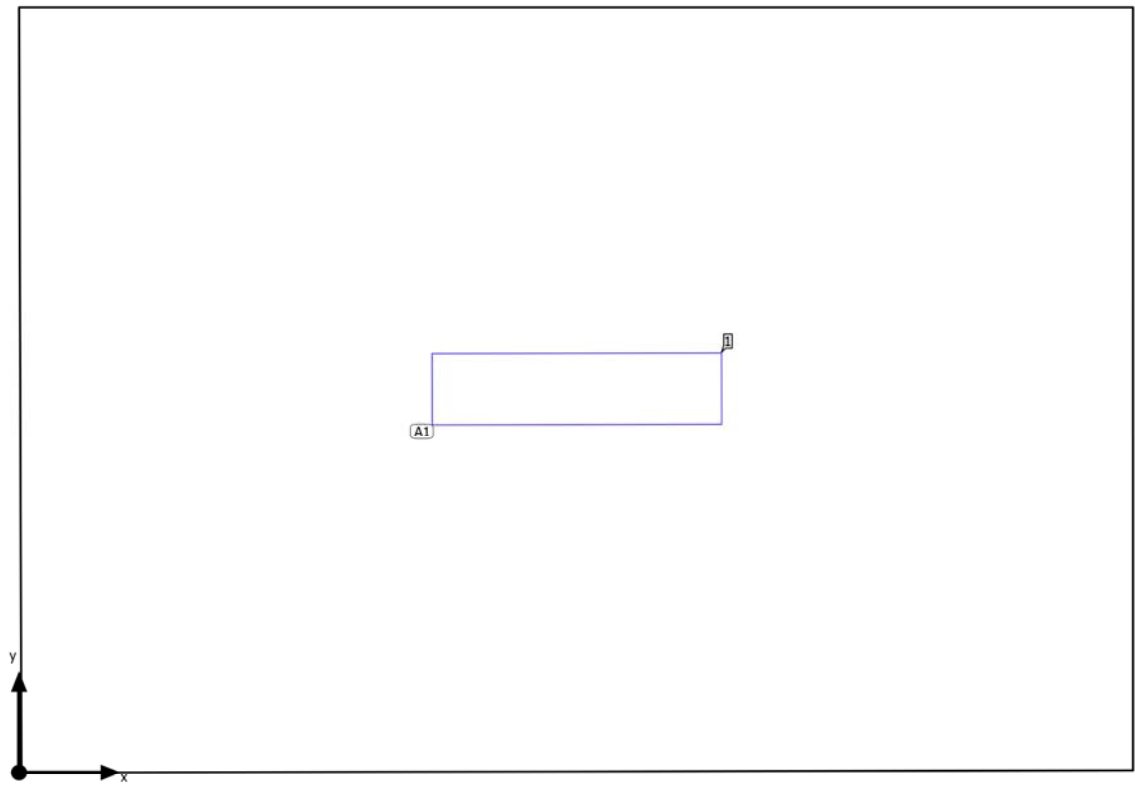
Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

Luminaire list

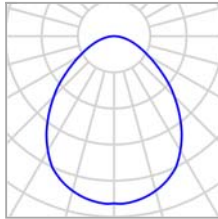
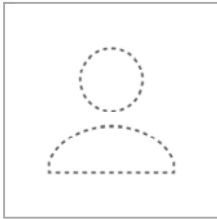
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
1	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	16	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Koridori

Luminaire layout plan



Building 1 · Përdhesa · Koridori

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	36.1 W
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	$\Phi_{\text{Luminaire}}$	4321 lm
Article name	4000K Ra80		
Fitting	1x		

1 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	2.303 m / 1.590 m / 3.200 m	2.303 m	1.590 m	3.200 m	1
X-direction	1 pcs., Center - center, 4.600 m				
Y-direction	1 pcs., Center - center, 3.170 m				
Arrangement	A1				

Building 1 · Përdhesa · Koridori

Luminaire list Φ_{total}

4321 lm

 P_{total}

36.1 W

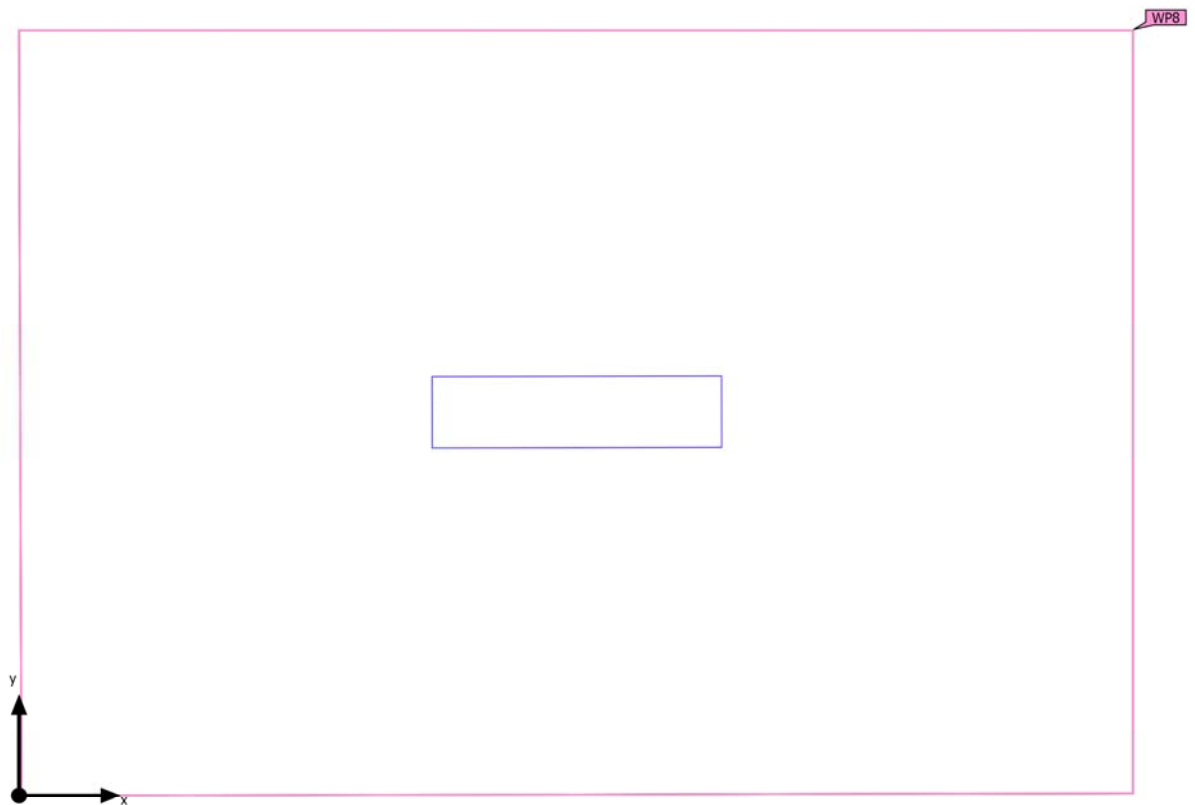
Luminous efficacy

119.7 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Koridori (Light scene 1)

Calculation objects



Building 1 · Përdhesa · Koridori (Light scene 1)

Calculation objects

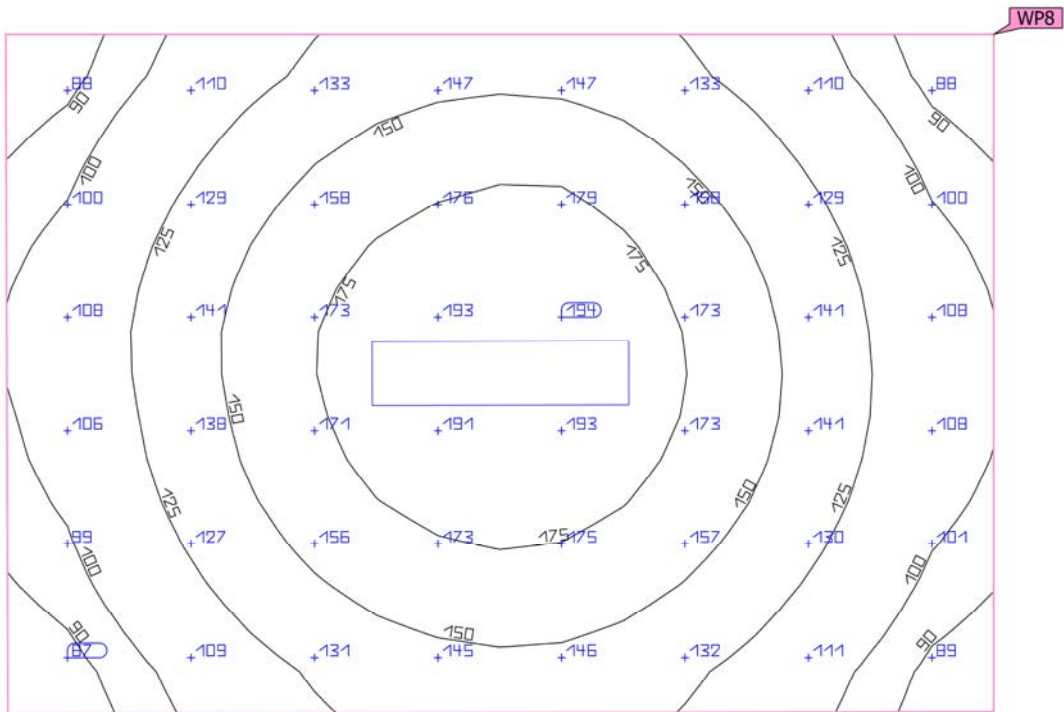
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridori) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	138 lx (≥ 100 lx) ✓	80.9 lx	196 lx	0.59 (≥ 0.40) ✓	0.41	WP8

Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

Building 1 · Përdhesa · Koridori (Light scene 1)

Working plane (Koridori)

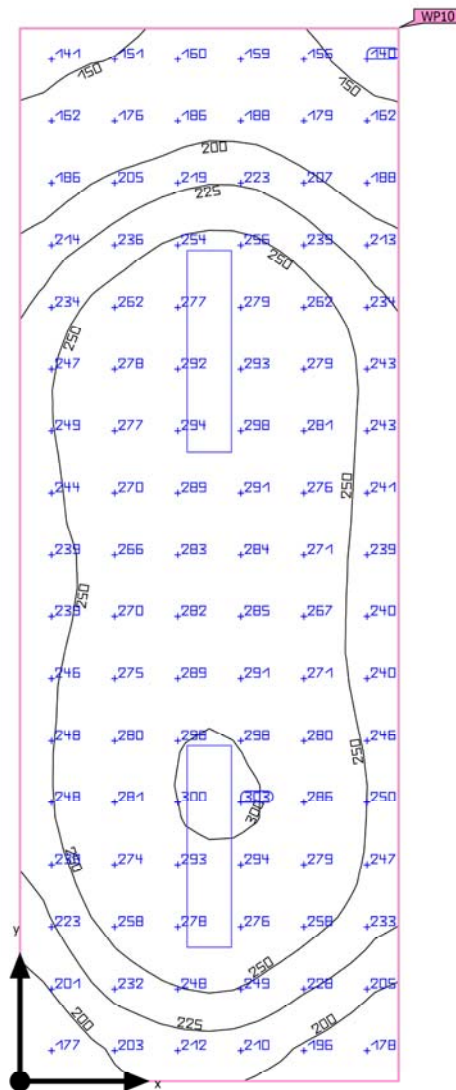


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridori)	138 lx	80.9 lx	196 lx	0.59	0.41	WP8
Perpendicular illuminance (adaptive)	≥ 100 lx			≥ 0.40		
Height: 0.000 m, Wall zone: 0.000 m	✓			✓		

Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

Building 1 · Përdhesa · Zyre (Light scene 1)

Summary



Ground area	13.01 m ²	Clearance height	3.200 m
Reflection factors	Ceiling: 70.0 %, Walls: 54.0 %, Floor: 20.0 %	Mounting height	3.200 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

Building 1 · Perdhesa · Zyre (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	243 lx	$\geq 100 \text{ lx}$	✓	WP10
	g_1	0.55	≥ 0.40	✓	WP10
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	19	≤ 25	✓	
Consumption values ⁽²⁾	Consumption	11.2 kWh/a	max. 500 kWh/a	✓	
Room	Lighting power density	5.23 W/m ²	–		
		2.15 W/m ² /100 lx	–		

(1) Based on a rectangular space of 2.160 m x 6.025 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

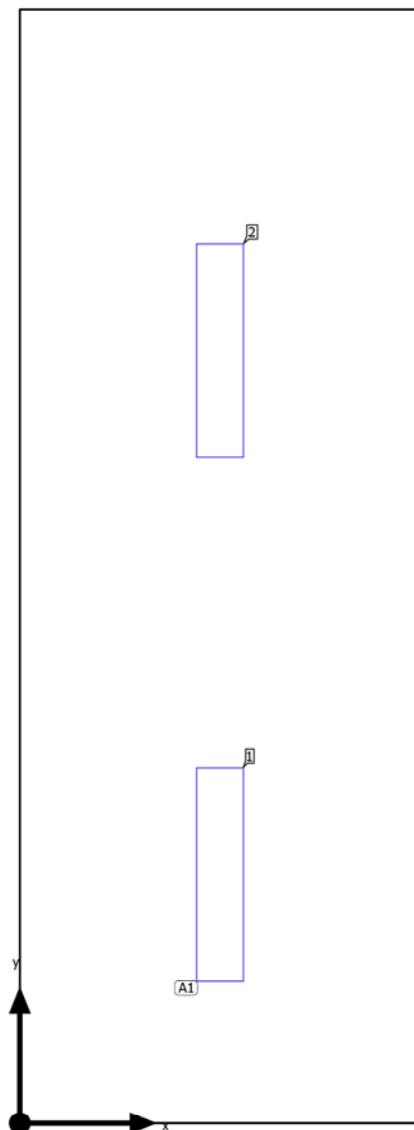
Utilization profile: Educational premises - Educational buildings (5.36.23 Stock rooms for teaching materials)

Luminaire list

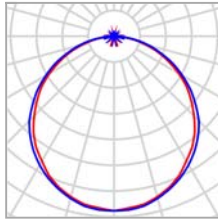
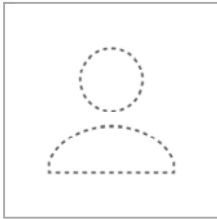
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
2	Not yet a DIALux member		"START Panel 1200x300 HE 4100L m 840 LILO" /4000	19	34.0 W	3930 lm	115.6 lm/W

Building 1 · Përdhesa · Zyre

Luminaire layout plan



Building 1 · Përdhesa · Zyre

Luminaire layout plan

Manufacturer	Not yet a DIALux member
Article name	"START Panel 1200x300 HE 4100L m 840 LILO" /4000
Fitting	1x LED/4000

P	34.0 W
$\Phi_{\text{Luminaire}}$	3930 lm

2 x Not yet a DIALux member "START Panel 1200x300 HE 4100L m 840 LILO" /4000

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.080 m / 1.345 m / 3.200 m	1.080 m	1.345 m	3.200 m	1
X-direction	1 pcs., Center - center, Distances not equal	1.080 m	4.178 m	3.200 m	2
Y-direction	2 pcs., Center - center, Distances not equal				
Arrangement	A1				

Building 1 · Përdhesa · Zyre

Luminaire list Φ_{total}

7860 lm

 P_{total}

68.0 W

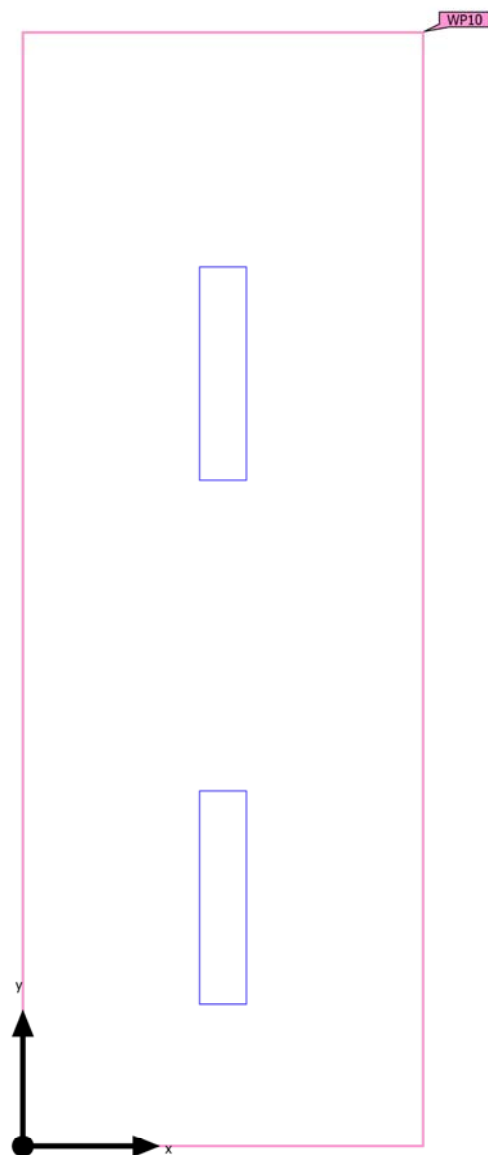
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	Not yet a DIALux member		"START Panel 1200x300 HE 4100L m 840 LILO" /4000	34.0 W	3930 lm	115.6 lm/W

Building 1 · Përdhesa · Zyre (Light scene 1)

Calculation objects



Building 1 · Perdhesa · Zyre (Light scene 1)

Calculation objects

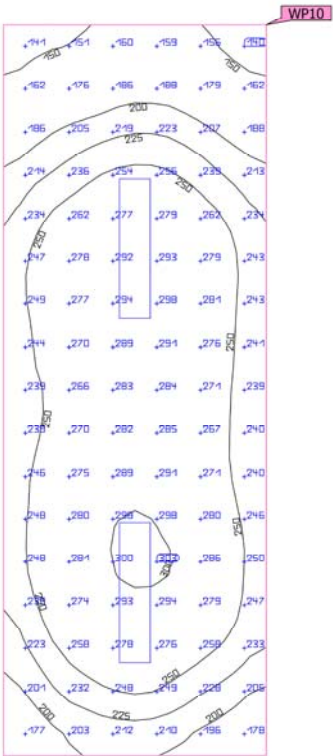
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Zyre) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	243 lx (≥ 100 lx) ✓	134 lx	304 lx	0.55 (≥ 0.40) ✓	0.44	WP10

Utilization profile: Educational premises - Educational buildings (5.36.23 Stock rooms for teaching materials)

Building 1 · Përdhesa · Zyre (Light scene 1)

Working plane (Zyre)

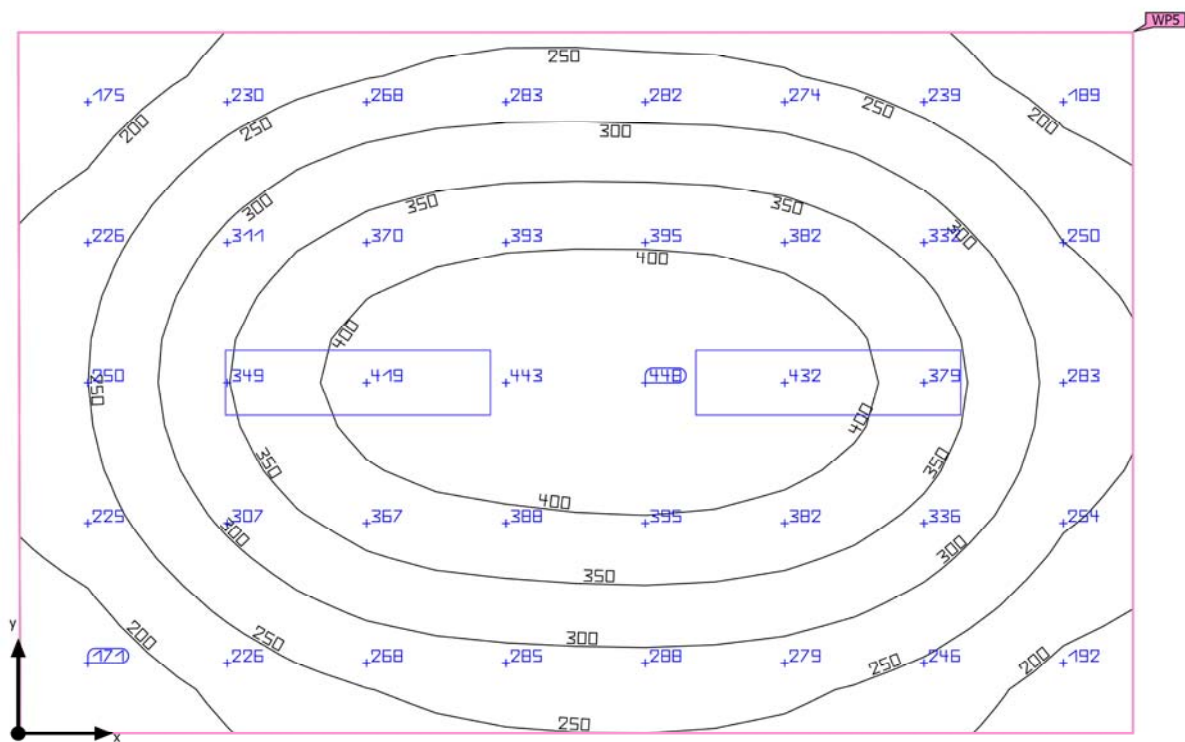


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Zyre)	243 lx	134 lx	304 lx	0.55	0.44	WP10
Perpendicular illuminance (adaptive)	(≥ 100 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

Utilization profile: Educational premises - Educational buildings (5.36.23 Stock rooms for teaching materials)

Building 1 · Përdhesa · Zyre e arsimitareve (Light scene 1)

Summary



Ground area	15.93 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	3.200 m
Mounting height	3.200 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

Building 1 · Përdhesa · Zyre e arsimtareve (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	304 lx	$\geq 300 \text{ lx}$	✓	WP5
	g_1	0.49	≥ 0.45	✓	WP5
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	17	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	139 kWh/a	max. 600 kWh/a	✓	
Room	Lighting power density	4.53 W/m ²	–		
		1.49 W/m ² /100 lx	–		

(1) Based on a rectangular space of 5.029 m x 3.170 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

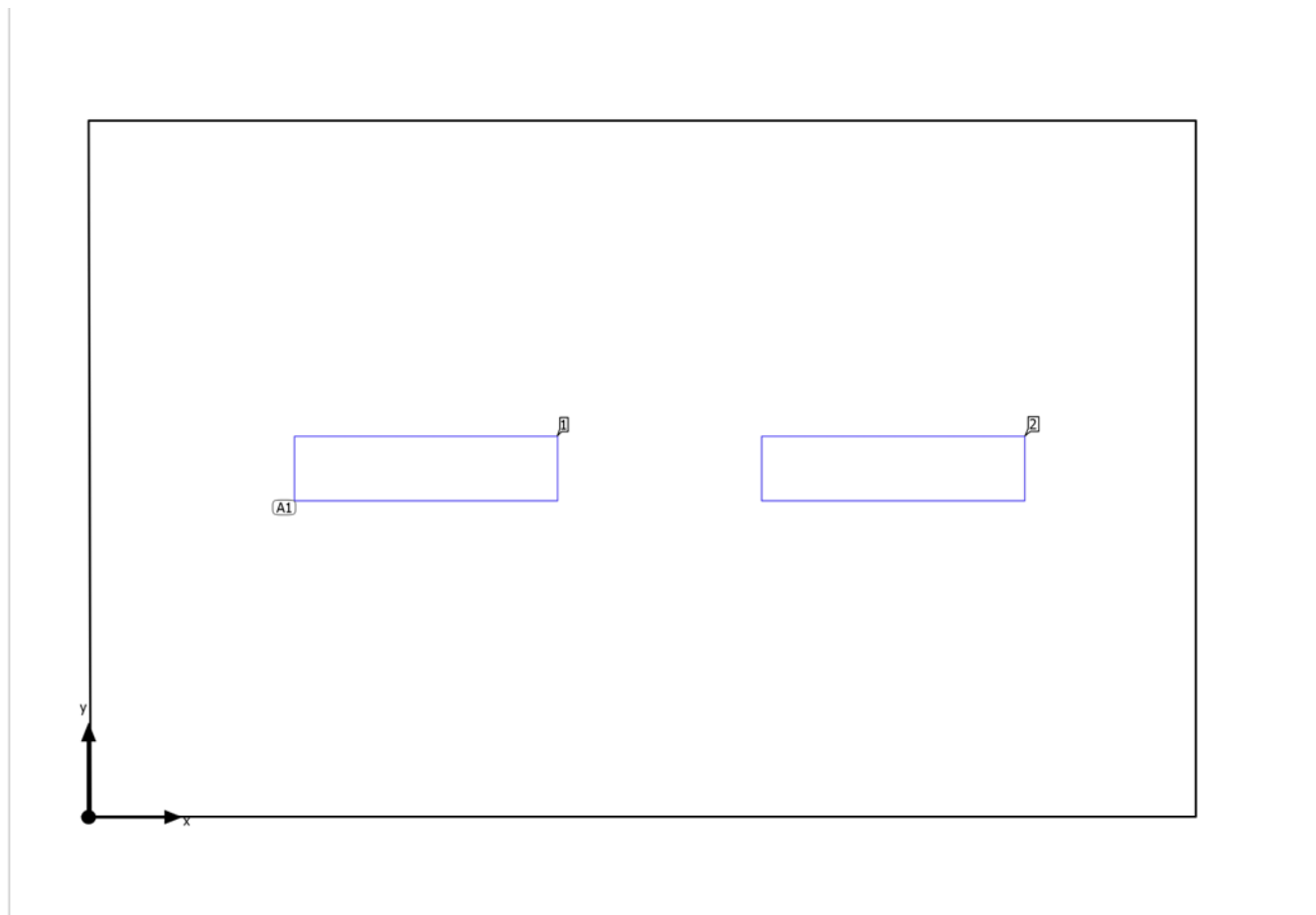
Utilization profile: Educational premises - Educational buildings (5.36.20 Teacher's Staff Common Room)

Luminaire list

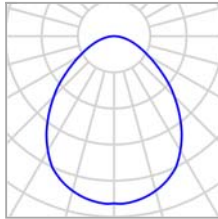
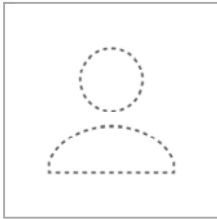
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
2	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	17	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Zyre e arsimitareve

Luminaire layout plan



Building 1 · Përdhesa · Zyre e arsimtareve

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	36.1 W
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	$\Phi_{\text{Luminaire}}$	4321 lm
Article name	4000K Ra80		
Fitting	1x		

2 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.533 m / 1.585 m / 3.200 m	1.533 m	1.585 m	3.200 m	1
X-direction	2 pcs., Center - center, Distances not equal	3.655 m	1.585 m	3.200 m	2
Y-direction	1 pcs., Center - center, Distances not equal				
Arrangement	A1				

Building 1 · Përdhesa · Zyre e arsimtareve

Luminaire list Φ_{total}

8642 lm

 P_{total}

72.2 W

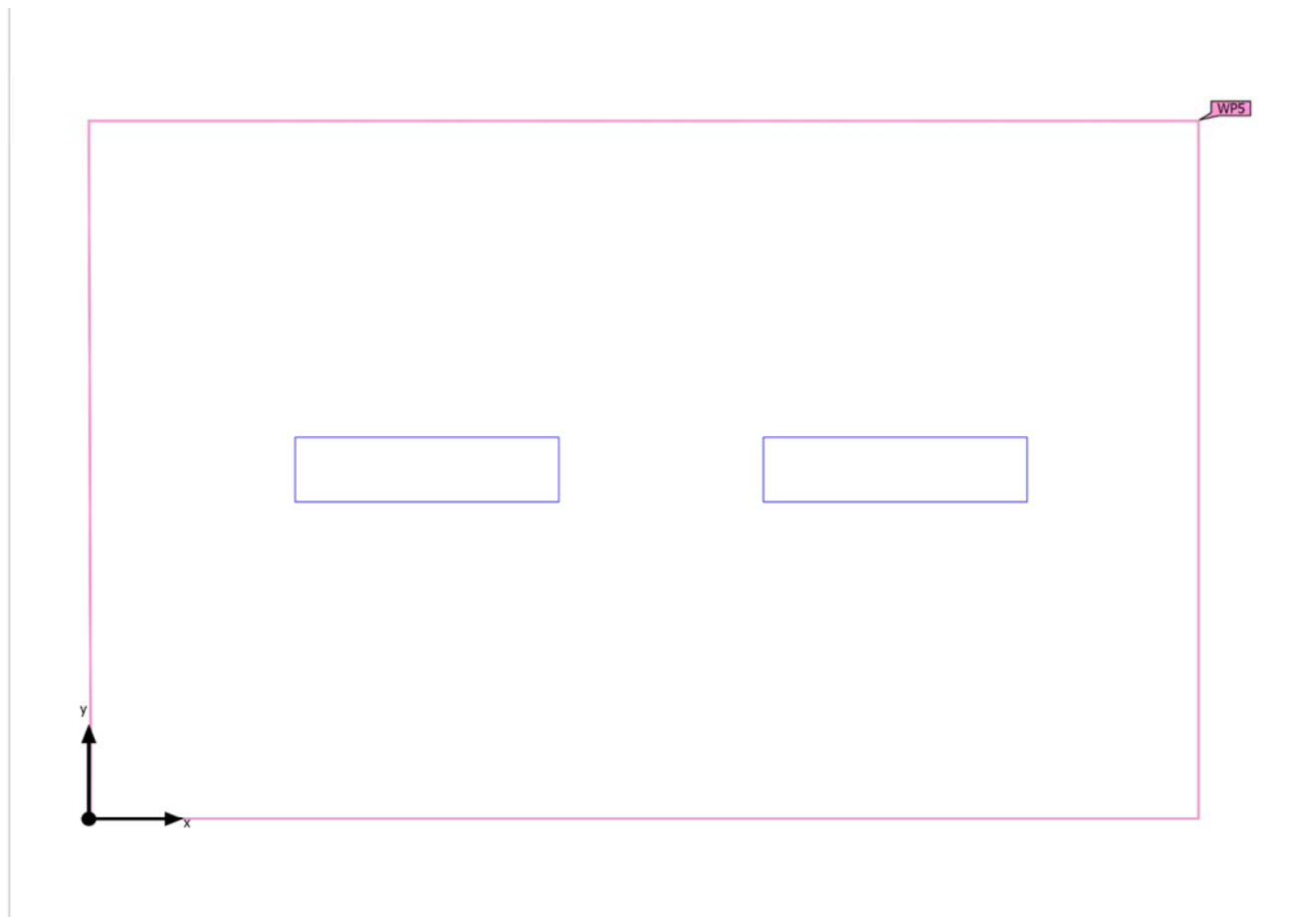
Luminous efficacy

119.7 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm	119.7 lm/W

Building 1 · Përdhesa · Zyre e arsimitareve (Light scene 1)

Calculation objects



Building 1 · Përdhesa · Zyre e arsimtareve (Light scene 1)

Calculation objects

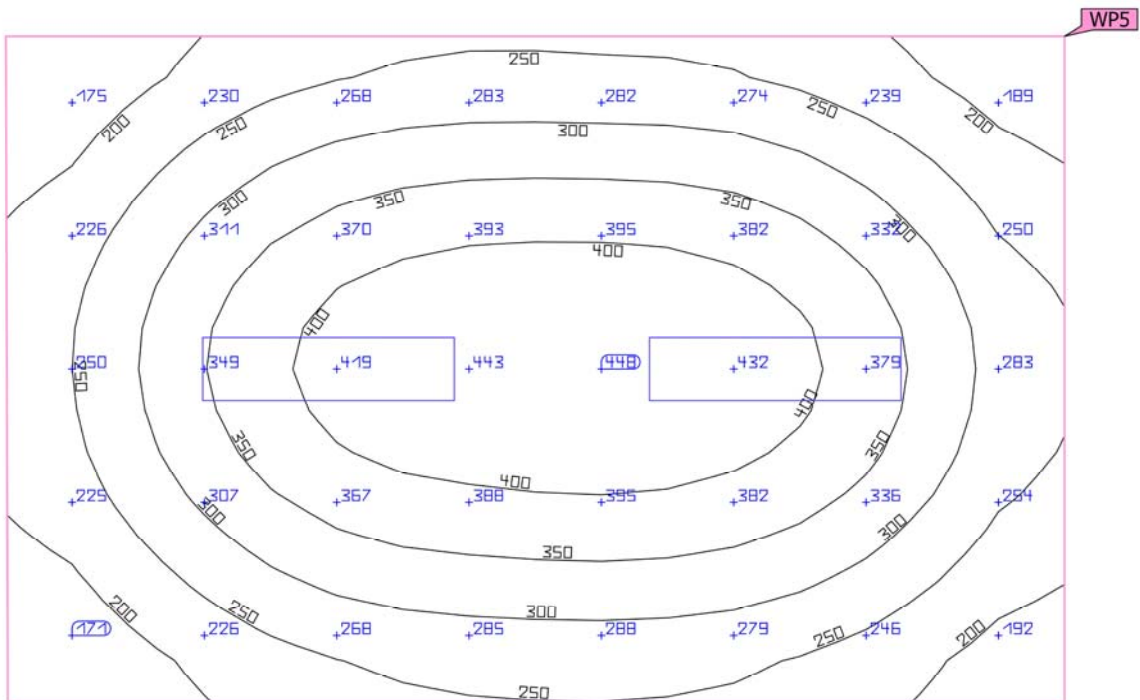
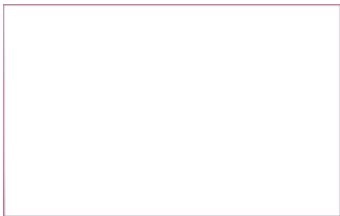
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Zyre e arsimtareve) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	304 lx (≥ 300 lx) ✓	150 lx	445 lx	0.49 (≥ 0.45) ✓	0.34	WP5

Utilization profile: Educational premises - Educational buildings (5.36.20 Teacher's Staff Common Room)

Building 1 · Përdhesa · Zyre e arsimtareve (Light scene 1)

Working plane (Zyre e arsimtareve)

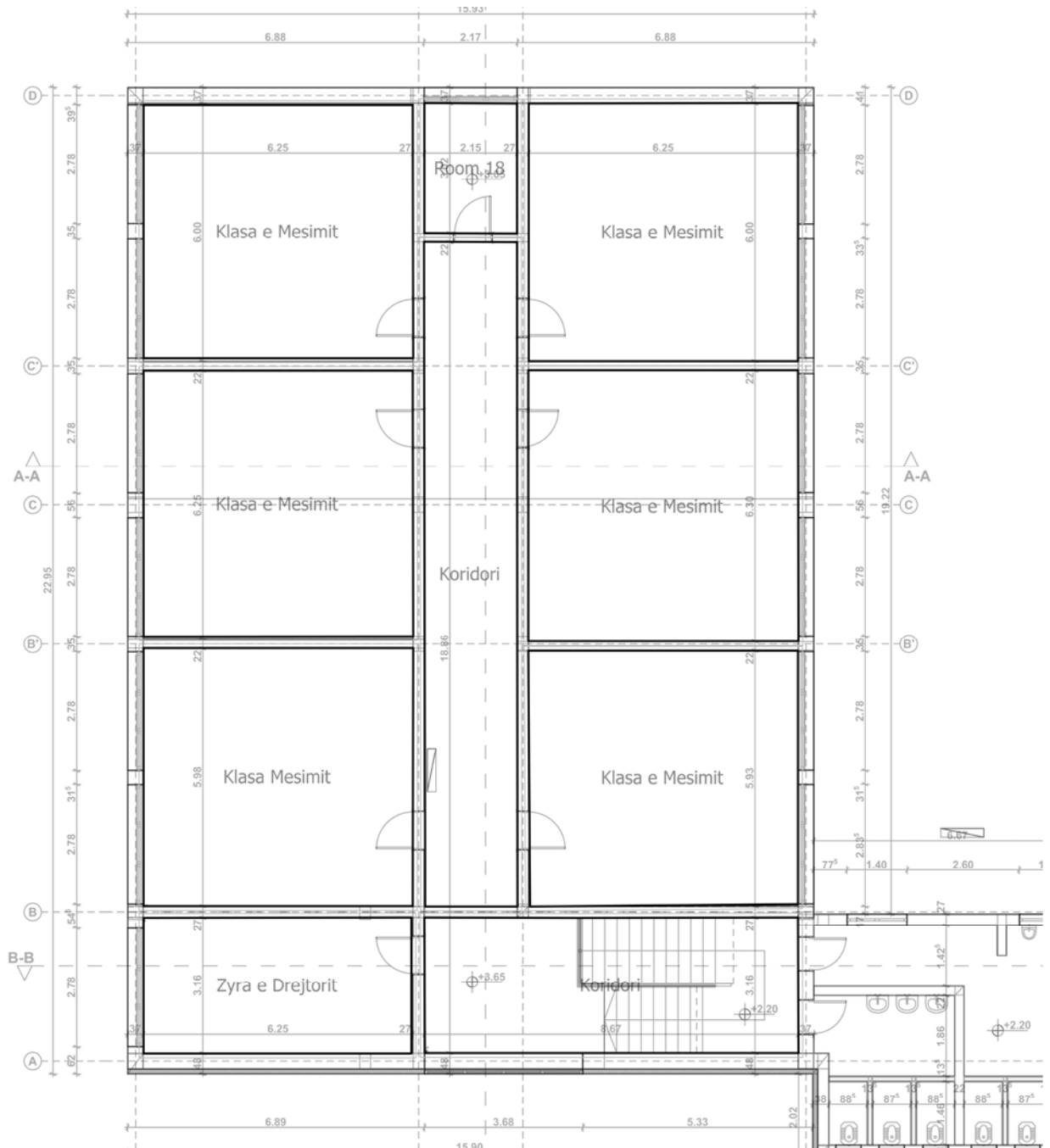


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Zyre e arsimtareve) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	304 lx (≥ 300 lx) ✓	150 lx	445 lx	0.49 (≥ 0.45) ✓	0.34	WP5

Utilization profile: Educational premises - Educational buildings (5.36.20 Teacher's Staff Common Room)

Building 1 · Kati 1 (Light scene 1)

Room List



Building 1 · Kati 1 (Light scene 1)

Room List

Klasa e Mesimit

P_{total} 136.0 W	A_{Room} 36.88 m ²	Lighting power density 3.69 W/m ² = 1.20 W/m ² /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 308 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
4	Not yet a DIALux member		"START Panel 1200x300 HE 4100L m 840 LILO" /4000	34.0 W	3930 lm

Klasa e Mesimit

P_{total} 144.4 W	A_{Room} 37.53 m ²	Lighting power density 3.85 W/m ² = 1.11 W/m ² /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 345 lx
------------------------	------------------------------------	--	---

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
4	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Building 1 · Kati 1 (Light scene 1)

Room List

Klasa e Mesimit

P_{total} 144.4 W	A_{Room} 38.69 m ²	Lighting power density 3.73 W/m ² = 1.13 W/m ² /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 331 lx
------------------------	------------------------------------	--	---

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
4	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Klasa e Mesimit

P_{total} 144.4 W	A_{Room} 39.53 m ²	Lighting power density 3.65 W/m ² = 1.12 W/m ² /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 326 lx
------------------------	------------------------------------	--	---

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
4	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Building 1 · Kati 1 (Light scene 1)

Room List

Klasa e Mesimit

P_{total} 144.4 W	A_{Room} 36.90 m ²	Lighting power density 3.91 W/m ² = 1.13 W/m ² /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 346 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
4	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Klasa Mesimit

P_{total} 144.4 W	A_{Room} 37.47 m ²	Lighting power density 3.85 W/m ² = 1.14 W/m ² /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 339 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
4	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Building 1 · Kati 1 (Light scene 1)

Room List

Koridori

P_{total} 108.3 W	A_{Room} 33.23 m ²	Lighting power density 3.26 W/m ² = 1.53 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 213 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
3	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Koridori

P_{total} 72.2 W	A_{Room} 27.44 m ²	Lighting power density 2.63 W/m ² = 1.33 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 197 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
2	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Building 1 · Kati 1 (Light scene 1)

Room List

Room 18

P_{total} 36.1 W	A_{Room} 6.51 m ²	Lighting power density 5.54 W/m ² = 1.45 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 383 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
1	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Zyra e Drejtorit

P_{total} 72.2 W	A_{Room} 19.75 m ²	Lighting power density 3.66 W/m ² = 1.16 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 316 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
2	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm

Building 1 · Kati 1

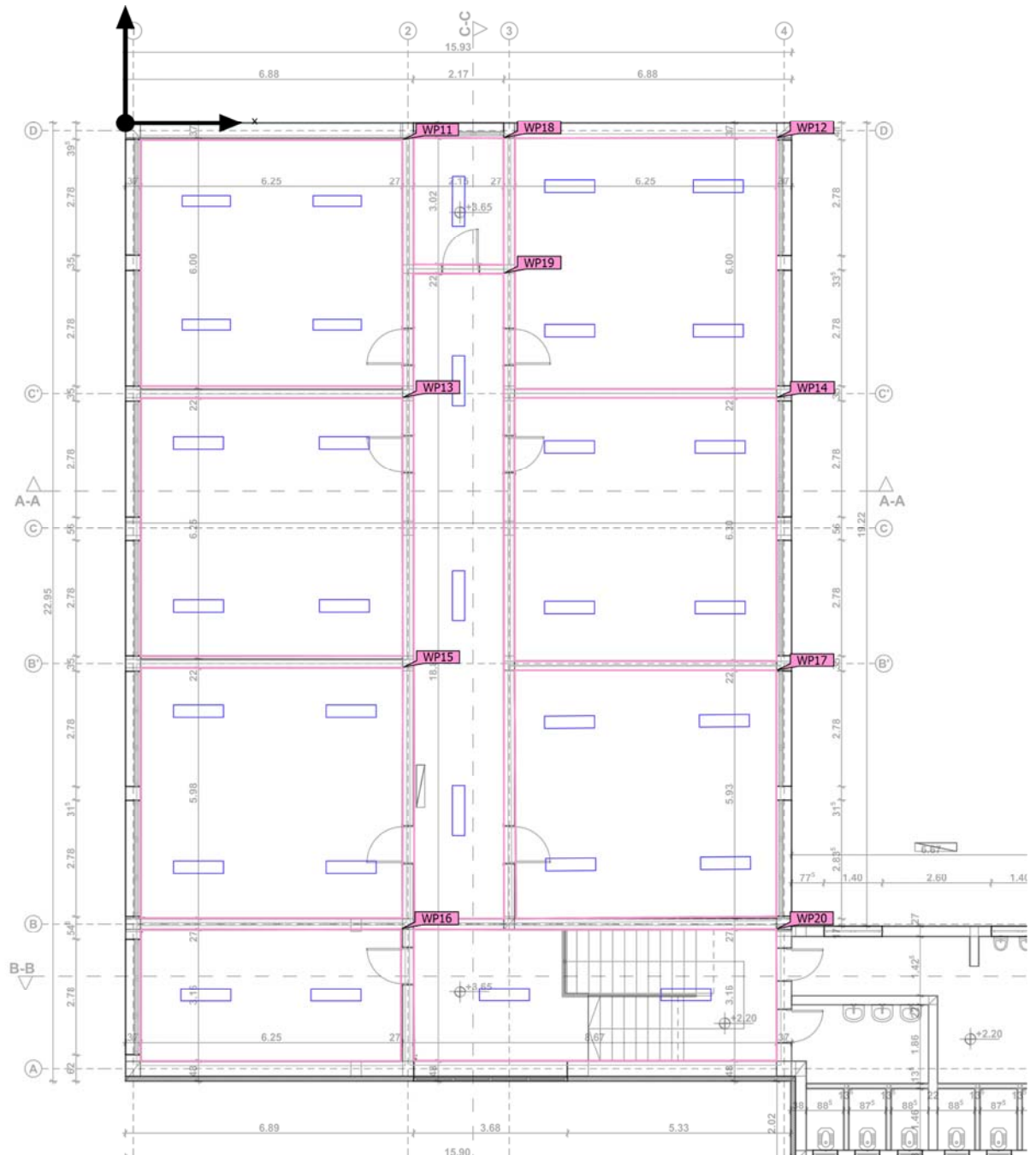
Luminaire list

Φ_{total} 136708 lm	P_{total} 1146.8 W	Luminous efficacy 119.2 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Not yet a DIALux member		"START Panel 1200x300 HE 4100L m 840 LILO" /4000	34.0 W	3930 lm	115.6 lm/W
28	Not yet a DIALux member	0042695	4000K Ra80 START PANEL IP65 1200x300 4400lm 840 WHITE	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 (Light scene 1)

Calculation objects



Building 1 · Kati 1 (Light scene 1)

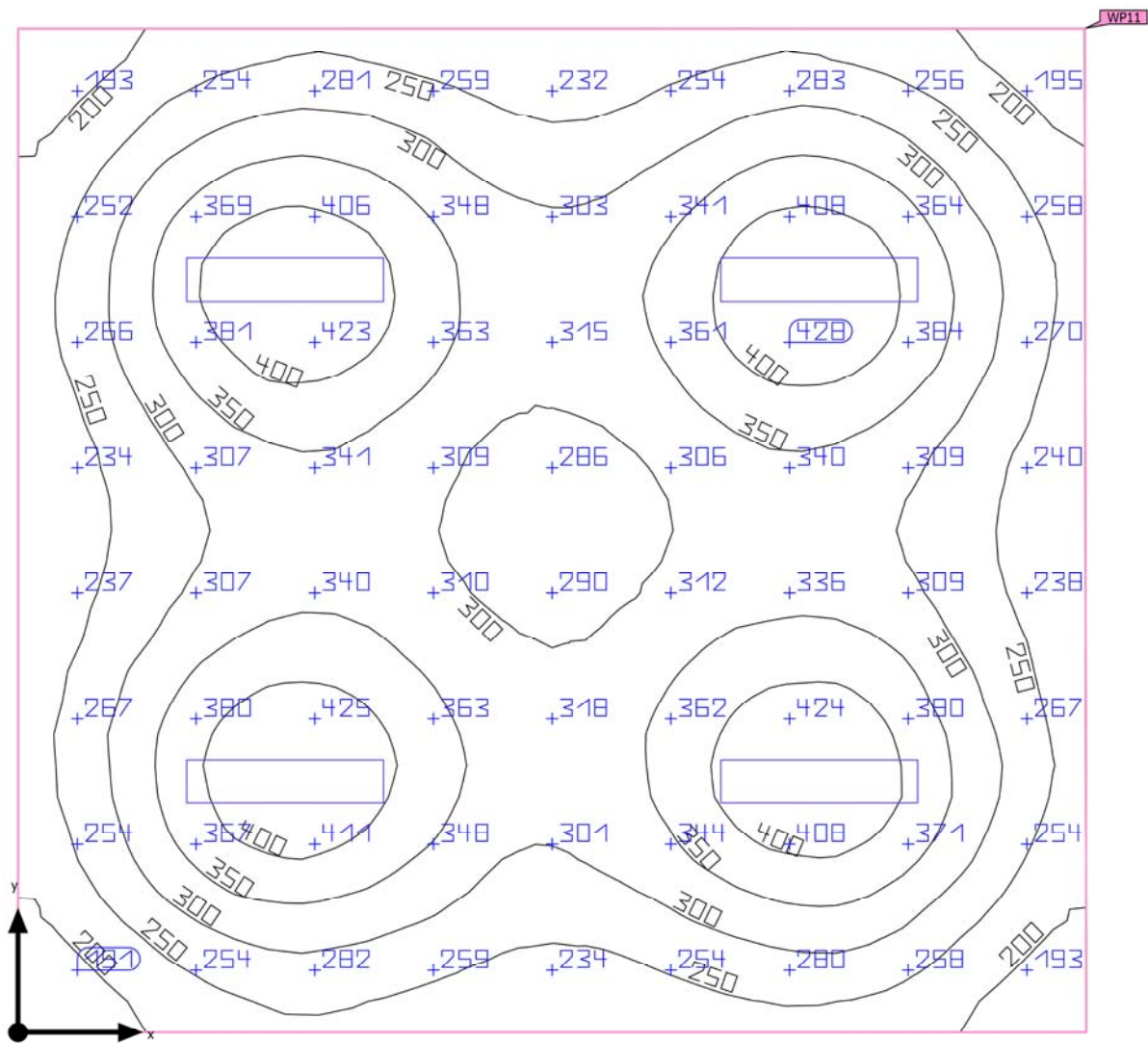
Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klasa e Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	308 lx (≥ 300 lx) ✓	155 lx	445 lx	0.50 (≥ 0.50) ✓	0.35	WP11
Working plane (Klasa e Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	345 lx (≥ 300 lx) ✓	177 lx	602 lx	0.51 (≥ 0.50) ✓	0.29	WP12
Working plane (Klasa e Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	331 lx (≥ 300 lx) ✓	154 lx	596 lx	0.47 (≥ 0.45) ✓	0.26	WP13
Working plane (Klasa e Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	326 lx (≥ 300 lx) ✓	158 lx	590 lx	0.48 (≥ 0.45) ✓	0.27	WP14
Working plane (Klasa Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	339 lx (≥ 300 lx) ✓	166 lx	605 lx	0.49 (≥ 0.45) ✓	0.27	WP15
Working plane (Zyra e Drejtorit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	316 lx (≥ 200 lx) ✓	127 lx	577 lx	0.40 (≥ 0.40) ✓	0.22	WP16
Working plane (Klasa e Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	346 lx (≥ 300 lx) ✓	184 lx	602 lx	0.53 (≥ 0.50) ✓	0.31	WP17
Working plane (Room 18) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	383 lx (≥ 200 lx) ✓	203 lx	600 lx	0.53 (≥ 0.50) ✓	0.34	WP18
Working plane (Koridori) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	213 lx (≥ 100 lx) ✓	105 lx	327 lx	0.49 (≥ 0.40) ✓	0.32	WP19
Working plane (Koridori) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	197 lx (≥ 100 lx) ✓	100 lx	302 lx	0.51 (≥ 0.40) ✓	0.33	WP20

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Summary



Ground area	36.88 m ²
Reflection factors	Ceiling: 80.0 %, Walls: 60.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.600 m
Mounting height	2.600 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	308 lx	$\geq 300 \text{ lx}$	✓	WP11
	g_1	0.50	≥ 0.50	✓	WP11
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	19	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	181 kWh/a	max. 1300 kWh/a	✓	
Room	Lighting power density	3.69 W/m ²	–		
		1.20 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.260 m x 5.896 m and SHR of 0.25.

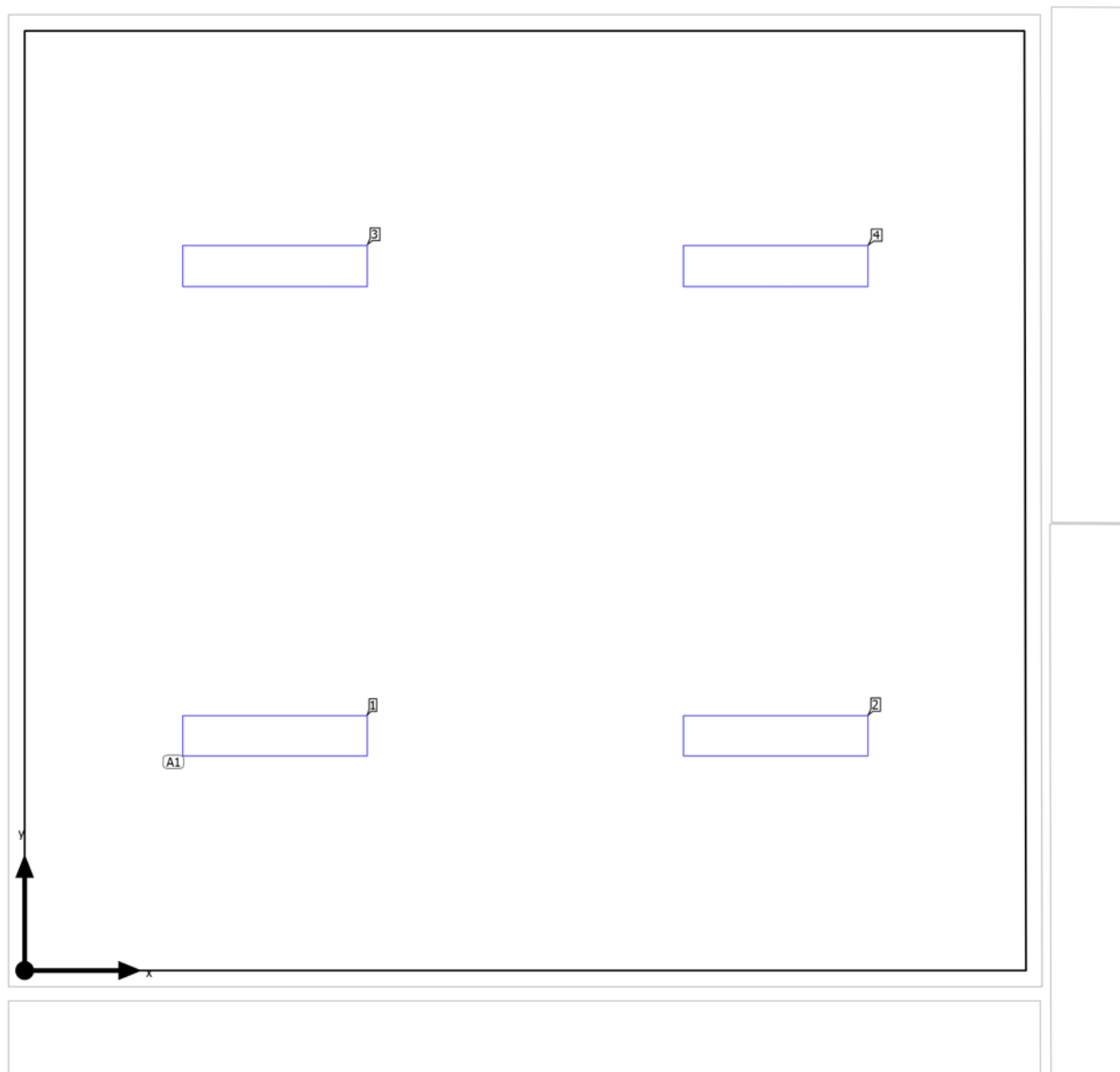
(2) Calculated using DIN:18599-4.

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

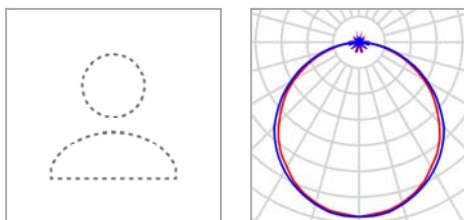
Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
4	Not yet a DIALux member		"START Panel 1200x300 HE 4100L m 840 LILO" /4000	19	34.0 W	3930 lm	115.6 lm/W

Building 1 · Kati 1 · Klasa e Mesimit

Luminaire layout plan

Building 1 · Kati 1 · Klasa e Mesimit

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	34.0 W
Article name	"START Panel 1200x300 HE 4100L m 840 LILO" /4000	$\Phi_{\text{Luminaire}}$	3930 lm
Fitting	1x LED/4000		

4 x Not yet a DIALux member "START Panel 1200x300 HE 4100L m 840 LILO" /4000

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.565 m / 1.474 m / 2.600 m	1.565 m	1.474 m	2.600 m	1
X-direction	2 pcs., Center - center, 3.130 m	4.695 m	1.474 m	2.600 m	2
Y-direction	2 pcs., Center - center, 2.948 m	1.565 m	4.422 m	2.600 m	3
		4.695 m	4.422 m	2.600 m	4
Arrangement	A1				

Building 1 · Kati 1 · Klasa e Mesimit

Luminaire list Φ_{total}

15720 lm

 P_{total}

136.0 W

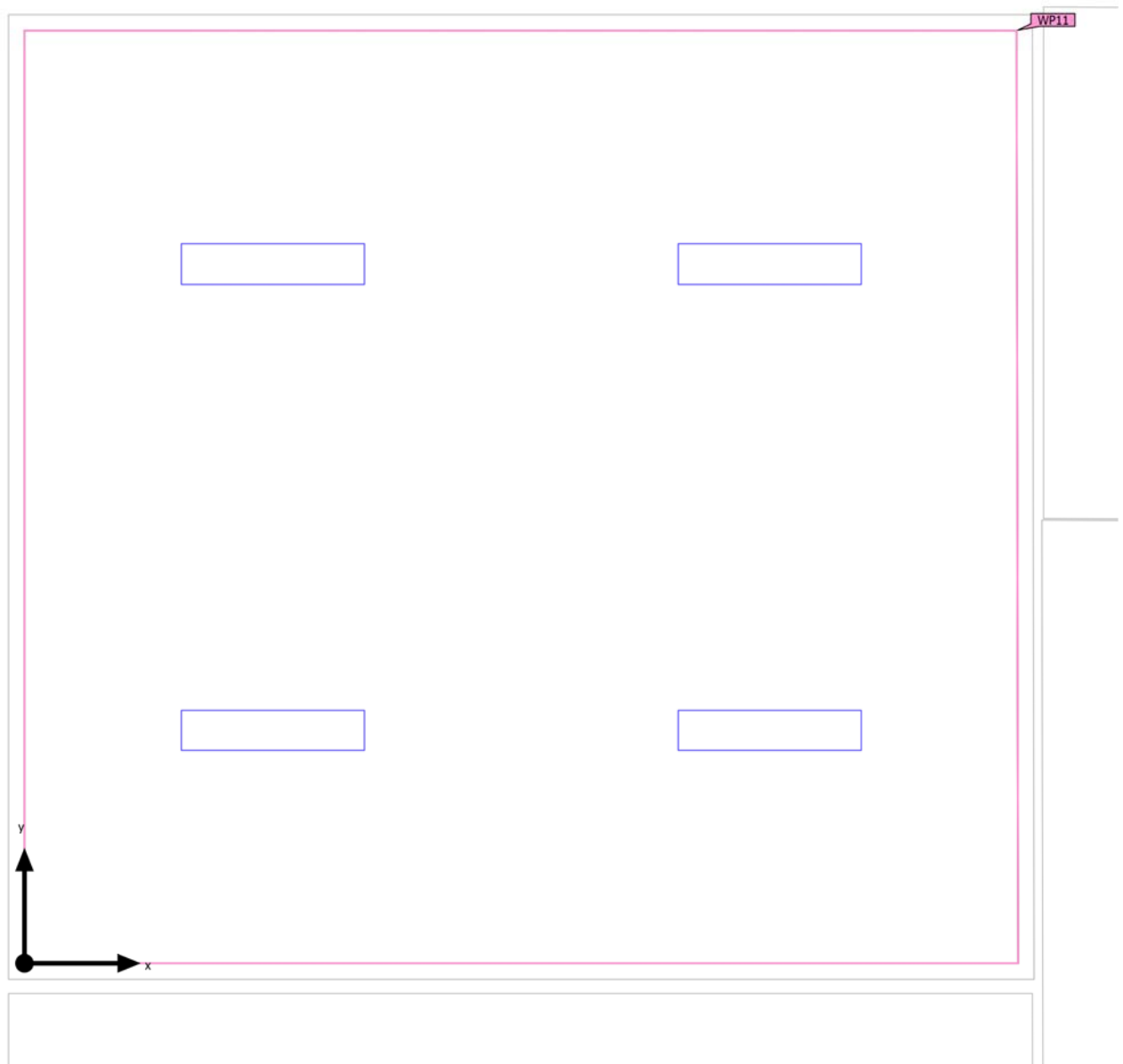
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Not yet a DIALux member		"START Panel 1200x300 HE 4100L m 840 LILO" /4000	34.0 W	3930 lm	115.6 lm/W

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Calculation objects



Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Calculation objects

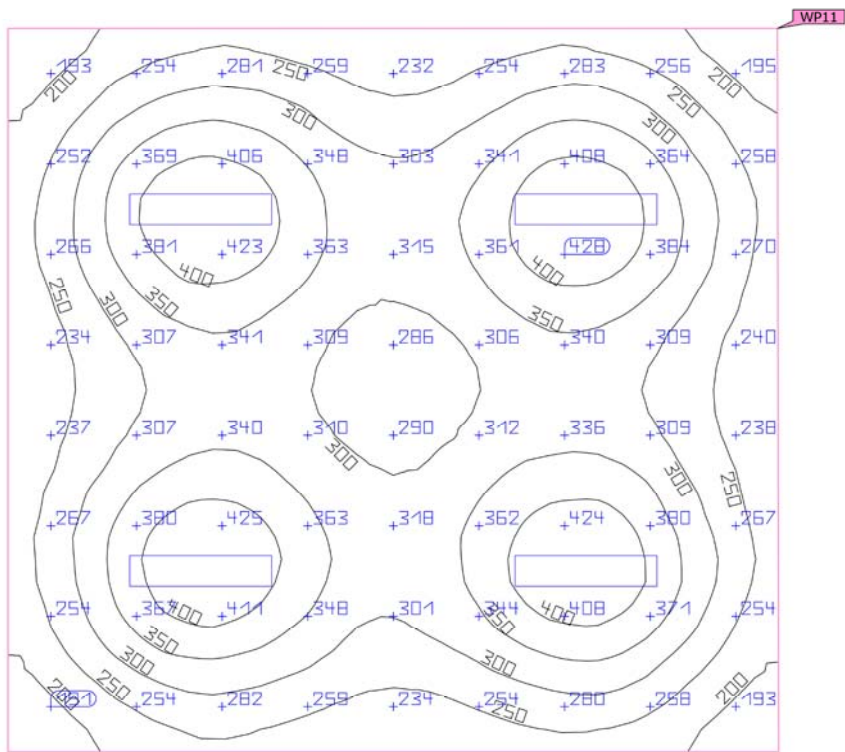
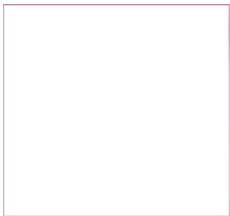
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klasa e Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	308 lx (≥ 300 lx) ✓	155 lx	445 lx	0.50 (≥ 0.50) ✓	0.35	WP11

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

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Working plane (Klasa e Mesimit)

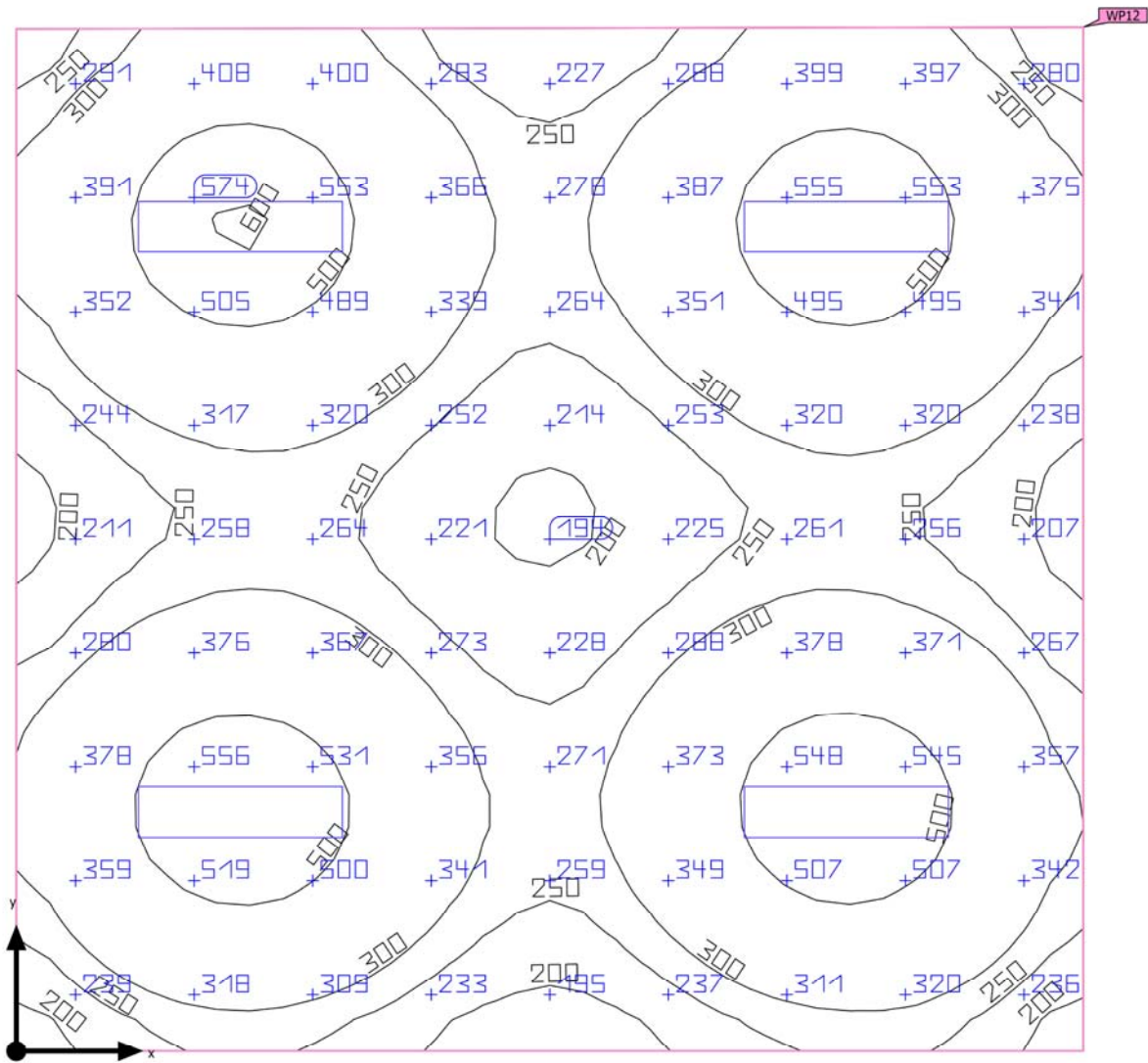


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klasa e Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	308 lx (≥ 300 lx) ✓	155 lx	445 lx	0.50 (≥ 0.50) ✓	0.35	WP11

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

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Summary



Ground area	37.53 m ²
Reflection factors	Ceiling: 80.0 %, Walls: 60.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.600 m
Mounting height	2.600 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	345 lx	≥ 300 lx	✓	WP12
	g_1	0.51	≥ 0.50	✓	WP12
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	18	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	192 kWh/a	max. 1350 kWh/a	✓	
Room	Lighting power density	3.85 W/m ²	–		
		1.11 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.250 m x 6.010 m and SHR of 0.25.

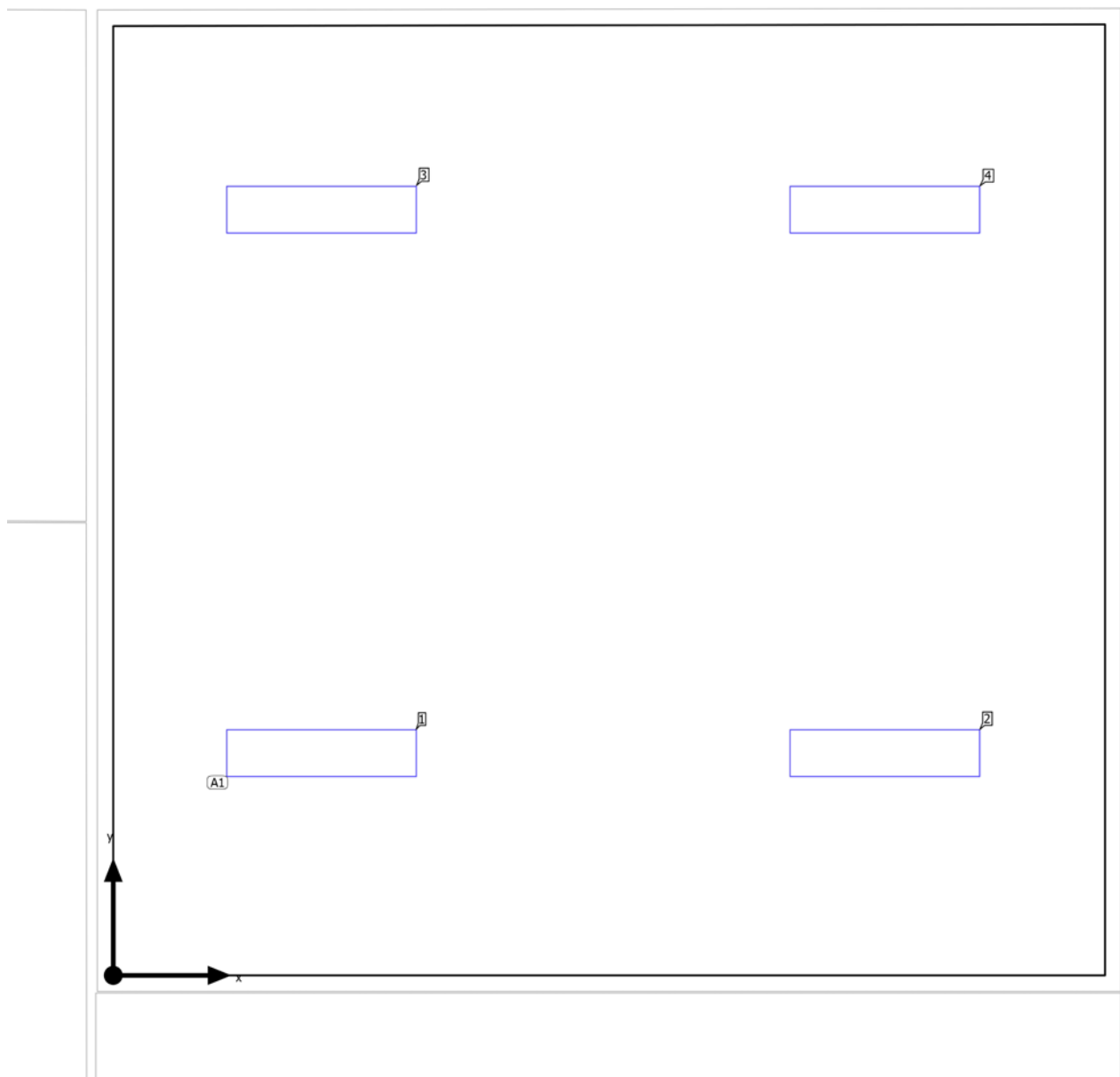
(2) Calculated using DIN:18599-4.

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

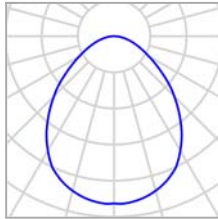
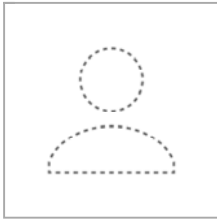
Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	18	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Klasa e Mesimit

Luminaire layout plan

Building 1 · Kati 1 · Klasa e Mesimit

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	36.1 W
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	$\Phi_{\text{Luminaire}}$	4321 lm
Article name	4000K Ra80		
Fitting	1x		

4 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.313 m / 1.402 m / 2.600 m	1.313 m	1.402 m	2.600 m	1
X-direction	2 pcs., Center - center, Distances not equal	4.863 m	1.402 m	2.600 m	2
		1.313 m	4.837 m	2.600 m	3
Y-direction	2 pcs., Center - center, Distances not equal	4.863 m	4.837 m	2.600 m	4
Arrangement	A1				

Building 1 · Kati 1 · Klasa e Mesimit

Luminaire list Φ_{total}

17284 lm

 P_{total}

144.4 W

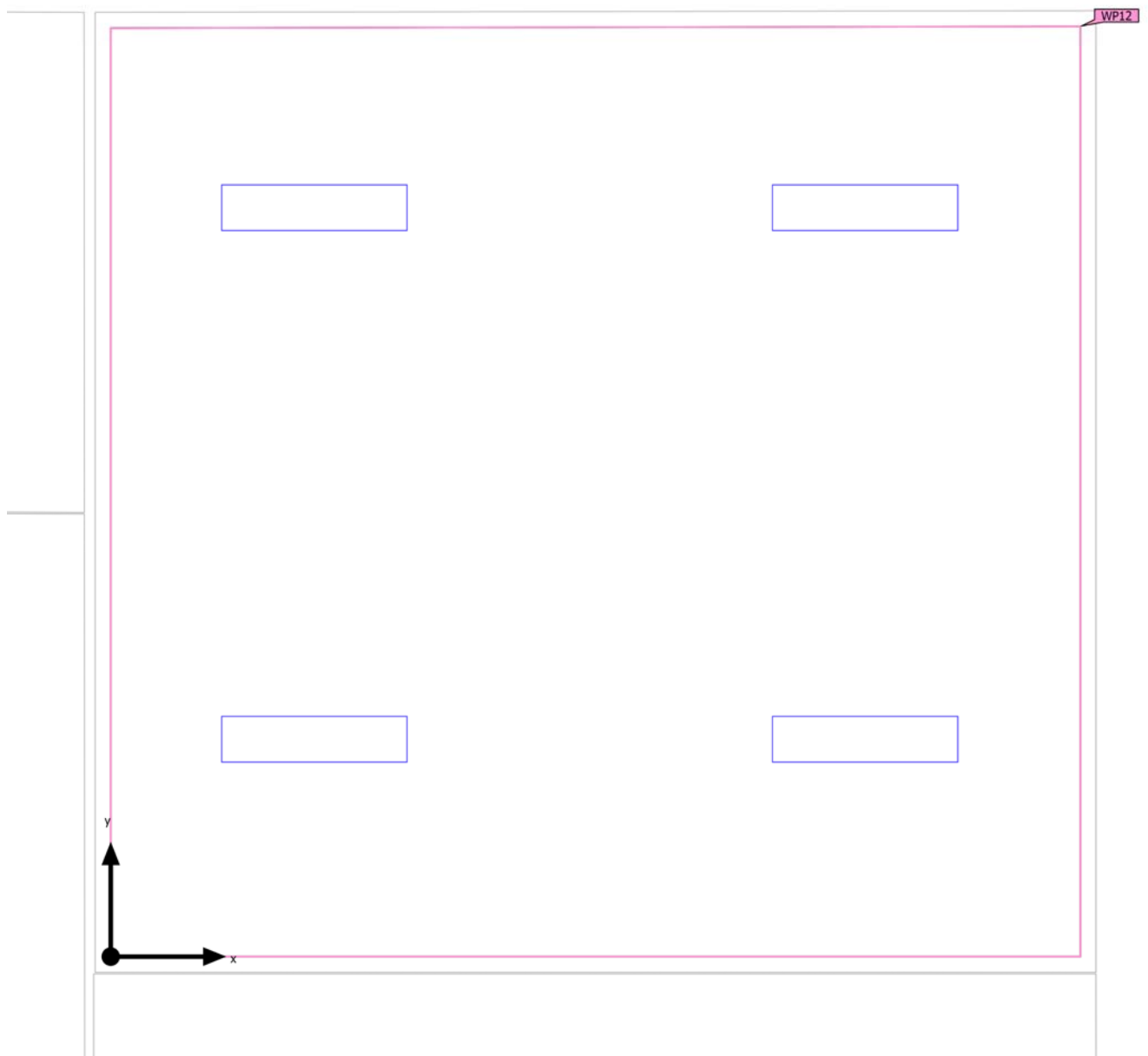
Luminous efficacy

119.7 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0042695	4000K Ra80 START PANEL IP65 1200x300 4400lm 840 WHITE	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Calculation objects



Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Calculation objects

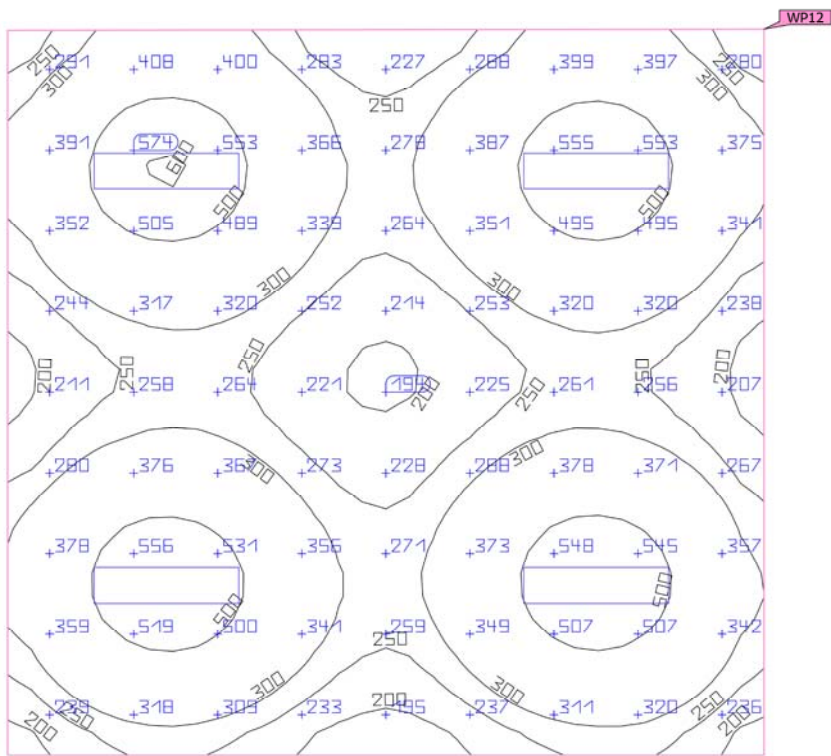
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klasa e Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	345 lx (≥ 300 lx) ✓	177 lx	602 lx	0.51 (≥ 0.50) ✓	0.29	WP12

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

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Working plane (Klasa e Mesimit)

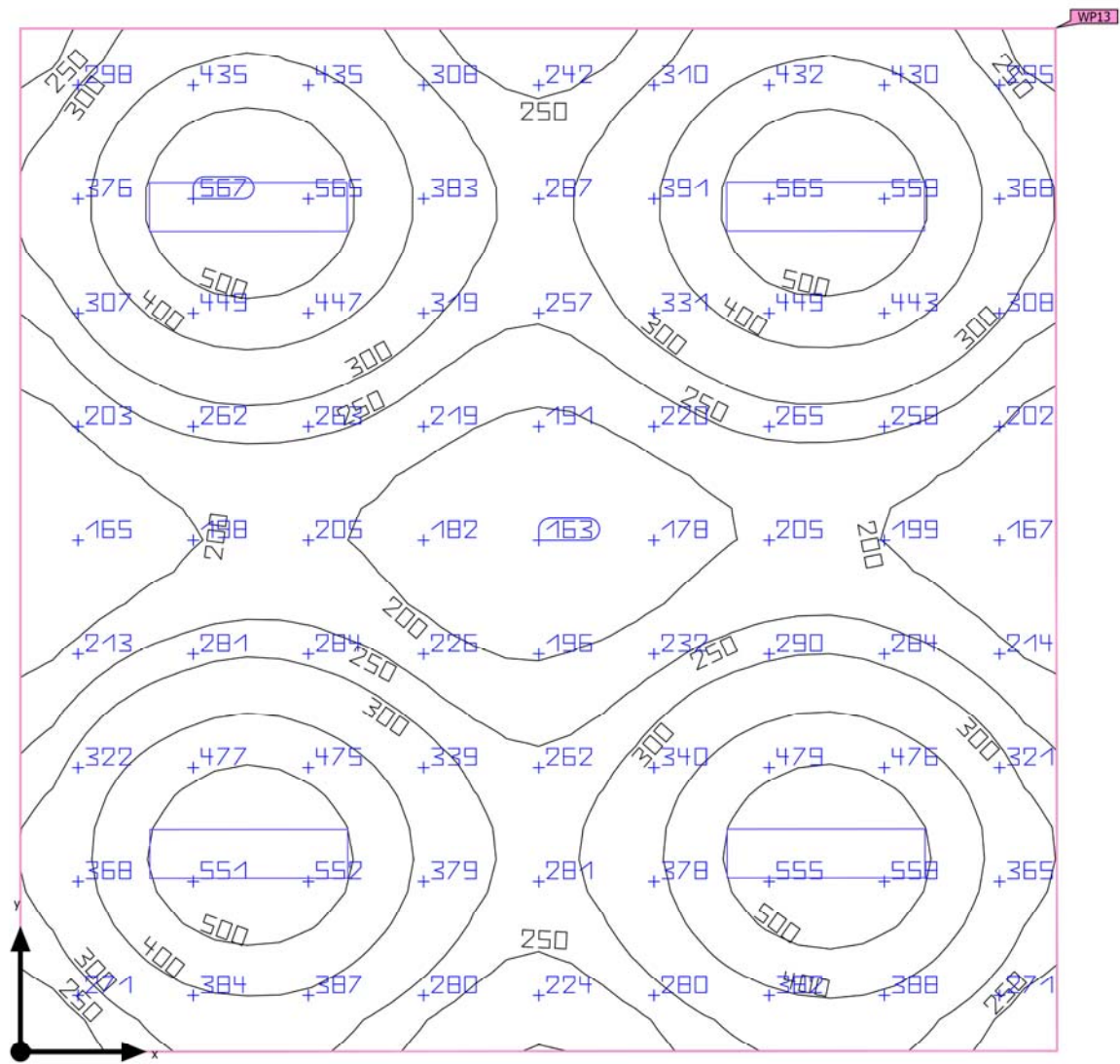


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klasa e Mesimit)	345 lx	177 lx	602 lx	0.51	0.29	WP12
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.50)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Summary



Ground area	38.69 m ²
Reflection factors	Ceiling: 80.0 %, Walls: 60.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.600 m
Mounting height	2.600 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	331 lx	≥ 300 lx	✓	WP13
	g_1	0.47	≥ 0.45	✓	WP13
Glare valuation ⁽¹⁾	$R_{UG, \max}$	18	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	192 kWh/a	max. 1400 kWh/a	✓	
Room	Lighting power density	3.73 W/m ²	–		
		1.13 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.260 m x 6.187 m and SHR of 0.25.

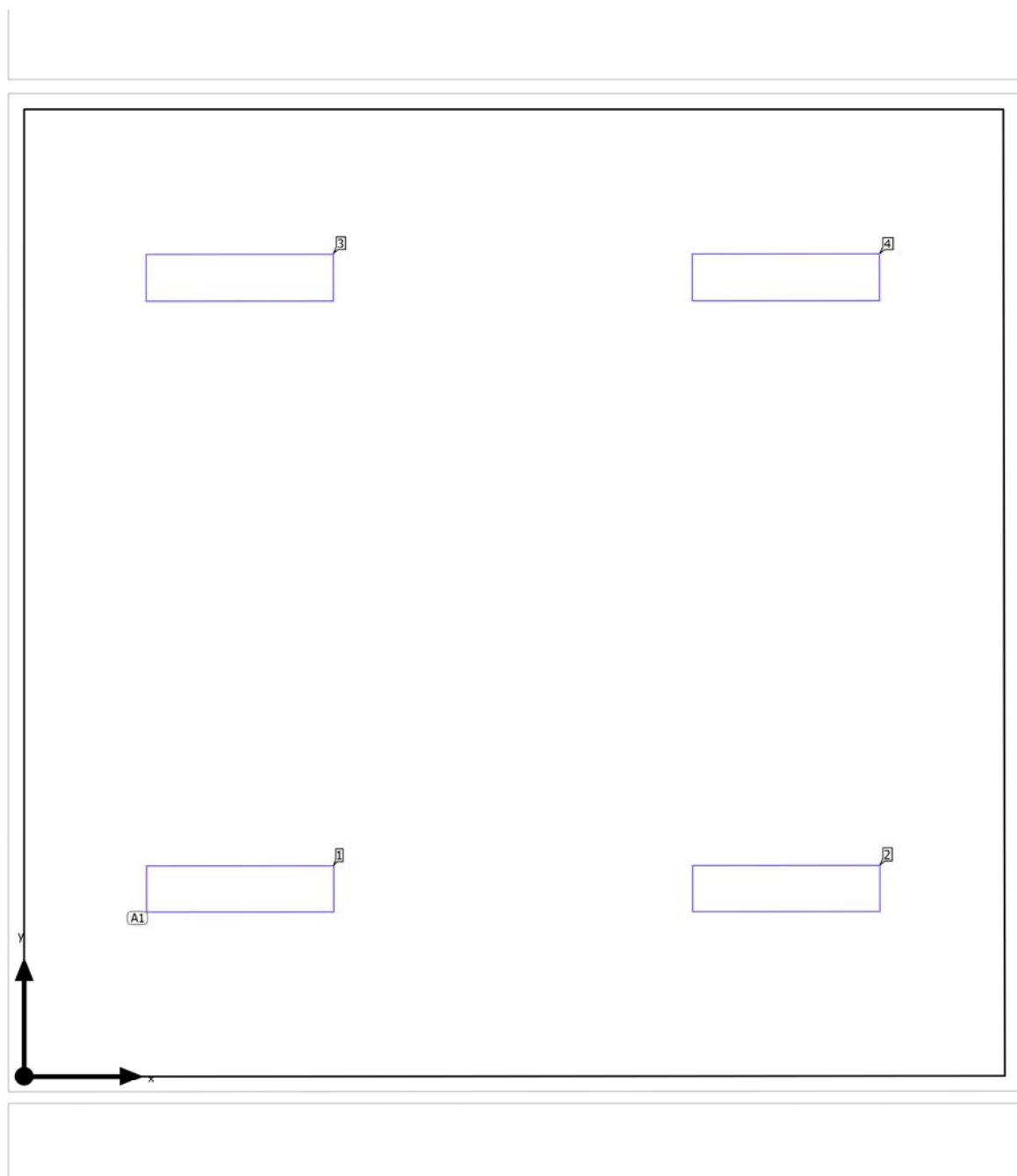
(2) Calculated using DIN:18599-4.

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

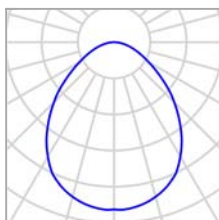
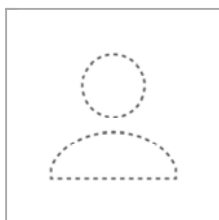
Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	18	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Klasa e Mesimit

Luminaire layout plan

Building 1 · Kati 1 · Klasa e Mesimit

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	36.1 W
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	$\Phi_{\text{Luminaire}}$	4321 lm
Article name	4000K Ra80		
Fitting	1x		

4 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.379 m / 1.198 m / 2.600 m	1.379 m	1.198 m	2.600 m	1
X-direction	2 pcs., Center - center, Distances not equal	4.865 m	1.200 m	2.600 m	2
		1.376 m	5.108 m	2.600 m	3
Y-direction	2 pcs., Center - center, Distances not equal	4.862 m	5.111 m	2.600 m	4
Arrangement	A1				

Building 1 · Kati 1 · Klasa e Mesimit

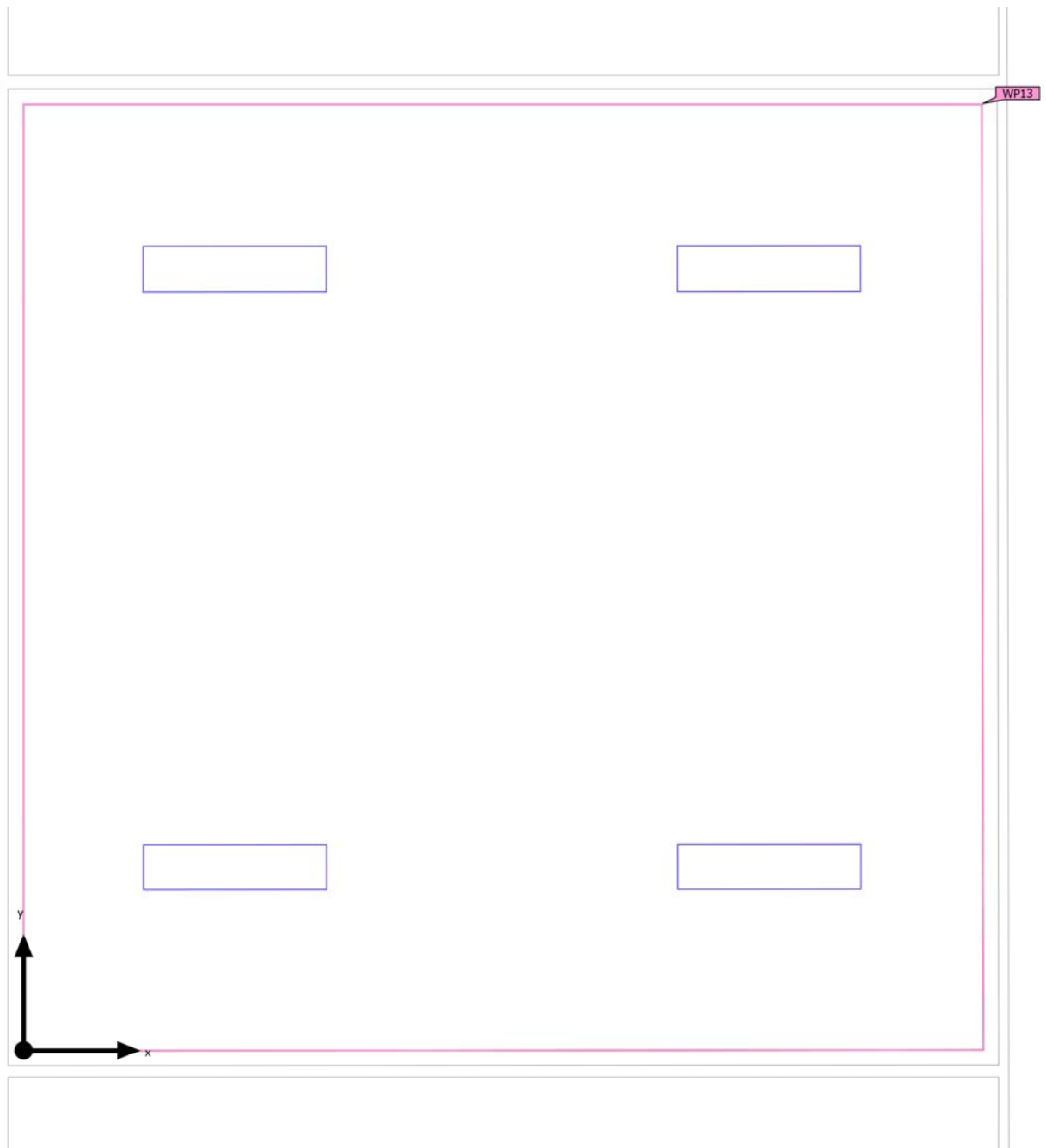
Luminaire list

Φ_{total} 17284 lm	P_{total} 144.4 W	Luminous efficacy 119.7 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0042695	4000K Ra80 START PANEL IP65 1200x300 4400lm 840 WHITE	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Calculation objects



Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Calculation objects

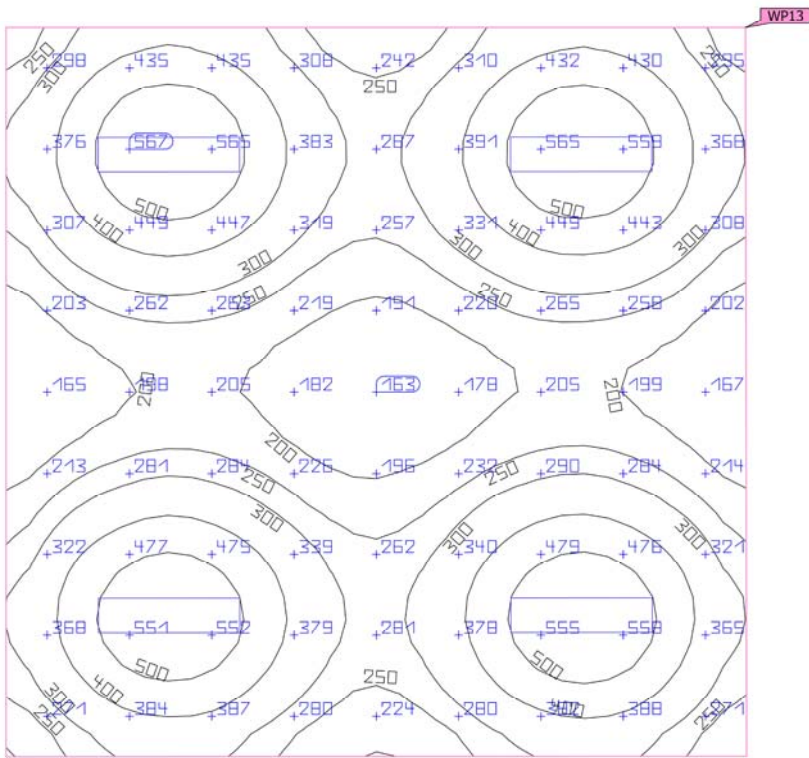
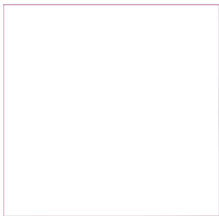
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klasa e Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	331 lx (≥ 300 lx) ✓	154 lx	596 lx	0.47 (≥ 0.45) ✓	0.26	WP13

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

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Working plane (Klasa e Mesimit)

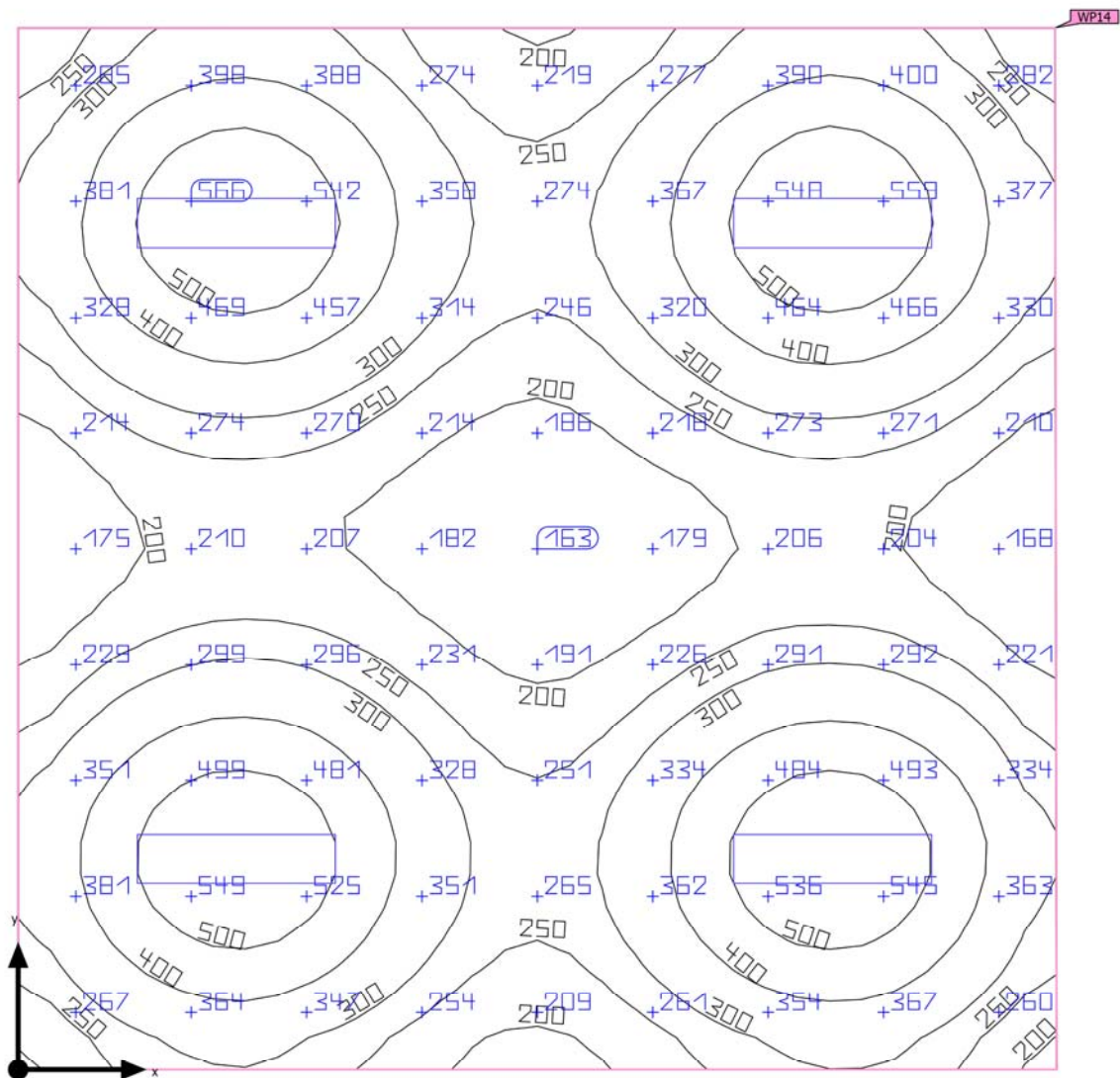


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klasa e Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	331 lx (≥ 300 lx) ✓	154 lx	596 lx	0.47 (≥ 0.45) ✓	0.26	WP13

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

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Summary



Ground area	39.53 m ²
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Reflection factors	Ceiling: 80.0 %, Walls: 60.0 %, Floor: 20.0 %
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Light loss factor	0.80 (fixed)
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Clearance height	2.600 m
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Mounting height	2.600 m
-----------------	---------

Height _{Working plane}	0.800 m
---------------------------------	---------

Wall zone _{Working plane}	0.000 m
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Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	326 lx	≥ 300 lx	✓	WP14
	g_1	0.48	≥ 0.45	✓	WP14
Glare valuation ⁽¹⁾	$R_{UG, \max}$	18	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	192 kWh/a	max. 1400 kWh/a	✓	
Room	Lighting power density	3.65 W/m ²	–		
		1.12 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.270 m x 6.310 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

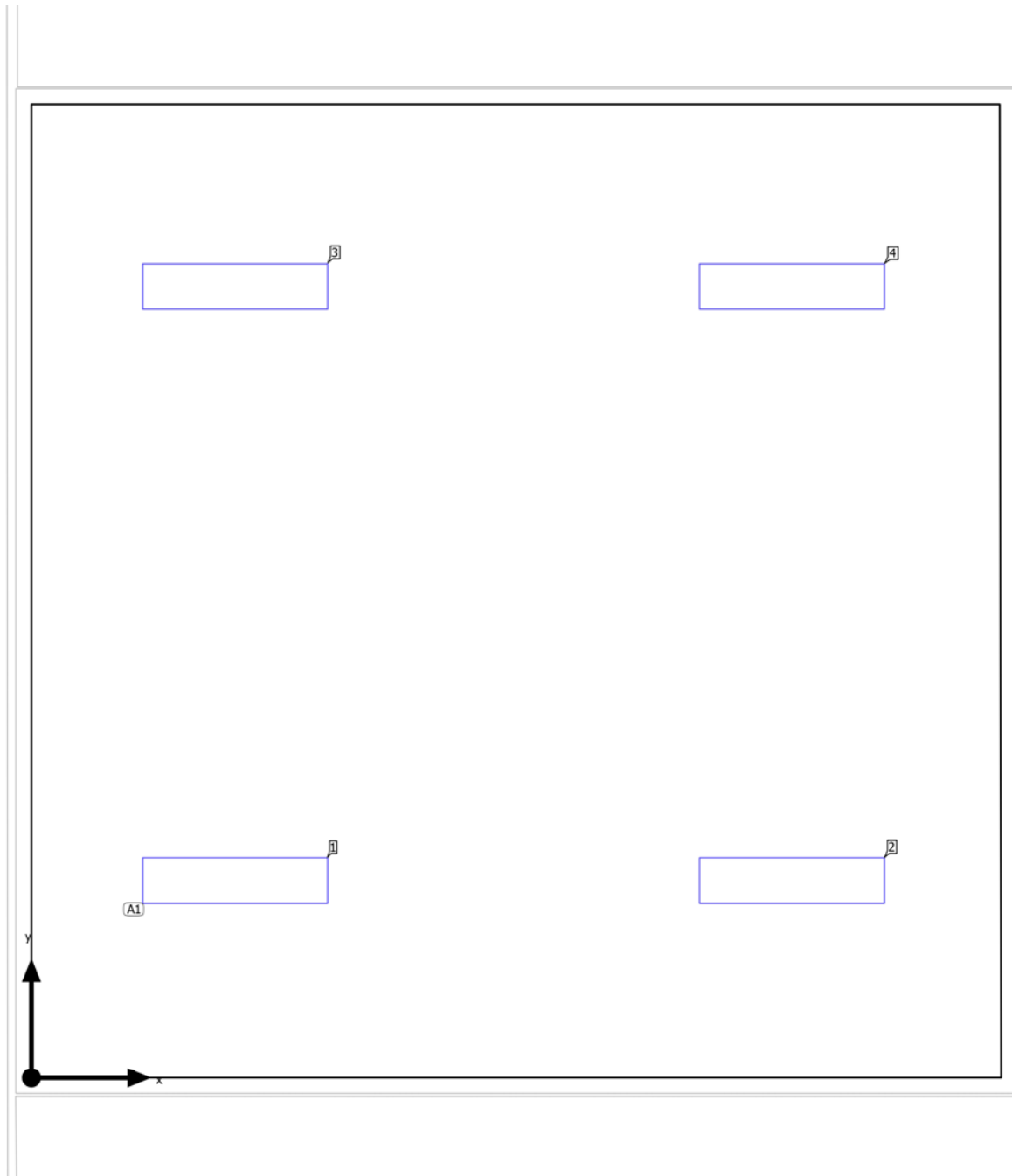
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

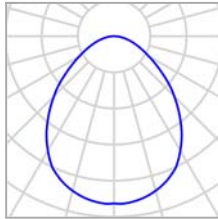
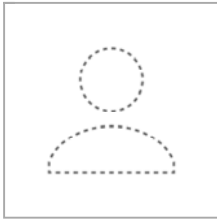
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	18	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Klasa e Mesimit

Luminaire layout plan



Building 1 · Kati 1 · Klasa e Mesimit

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	36.1 W
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	$\Phi_{\text{Luminaire}}$	4321 lm
Article name	4000K Ra80		
Fitting	1x		

4 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.318 m / 1.278 m / 2.600 m	1.318 m	1.278 m	2.600 m	1
X-direction	2 pcs., Center - center, Distances not equal	4.918 m	1.278 m	2.600 m	2
		1.318 m	5.128 m	2.600 m	3
Y-direction	2 pcs., Center - center, Distances not equal	4.918 m	5.128 m	2.600 m	4
Arrangement	A1				

Building 1 · Kati 1 · Klasa e Mesimit

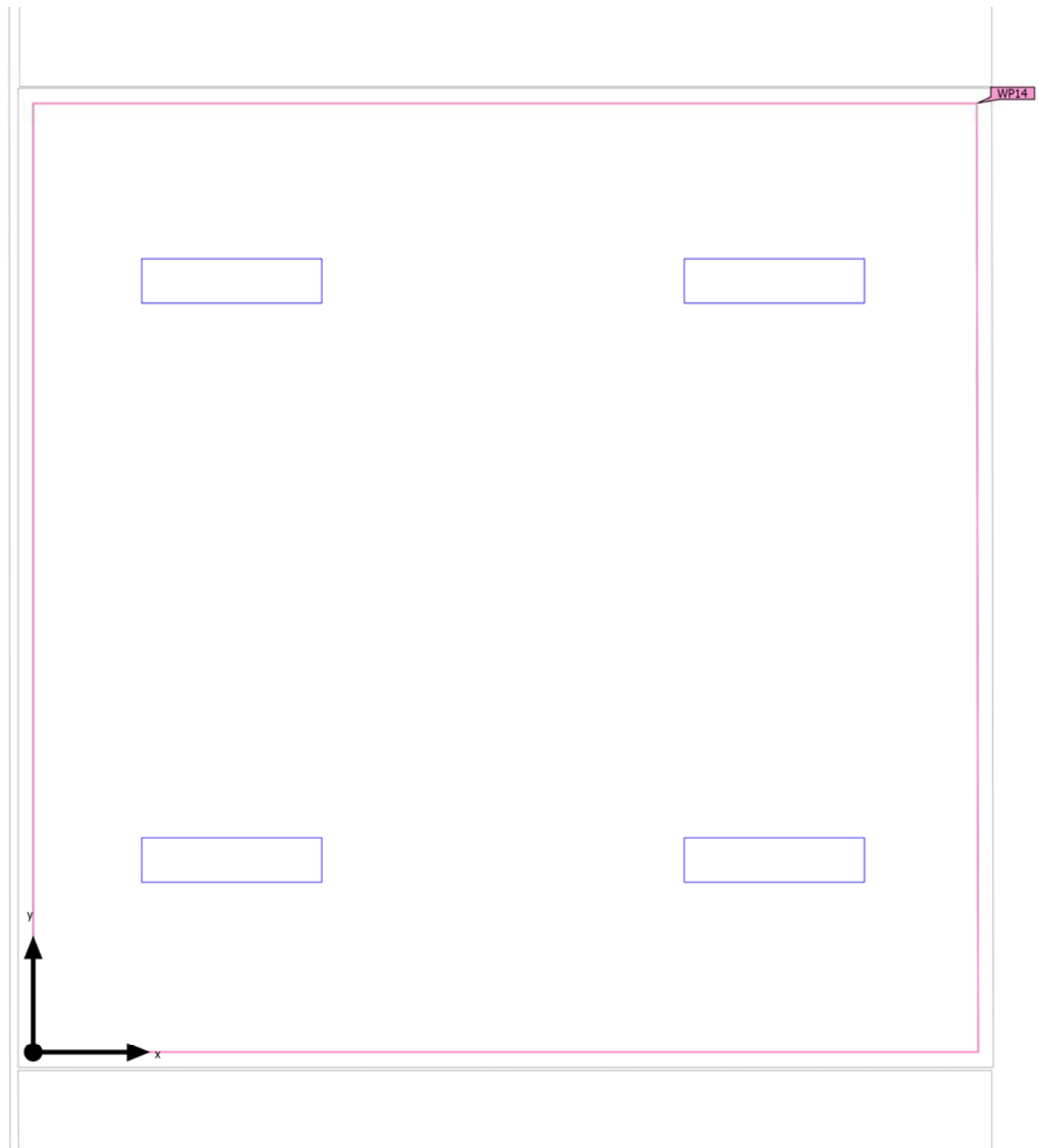
Luminaire list

Φ_{total} 17284 lm	P_{total} 144.4 W	Luminous efficacy 119.7 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Calculation objects



Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Calculation objects

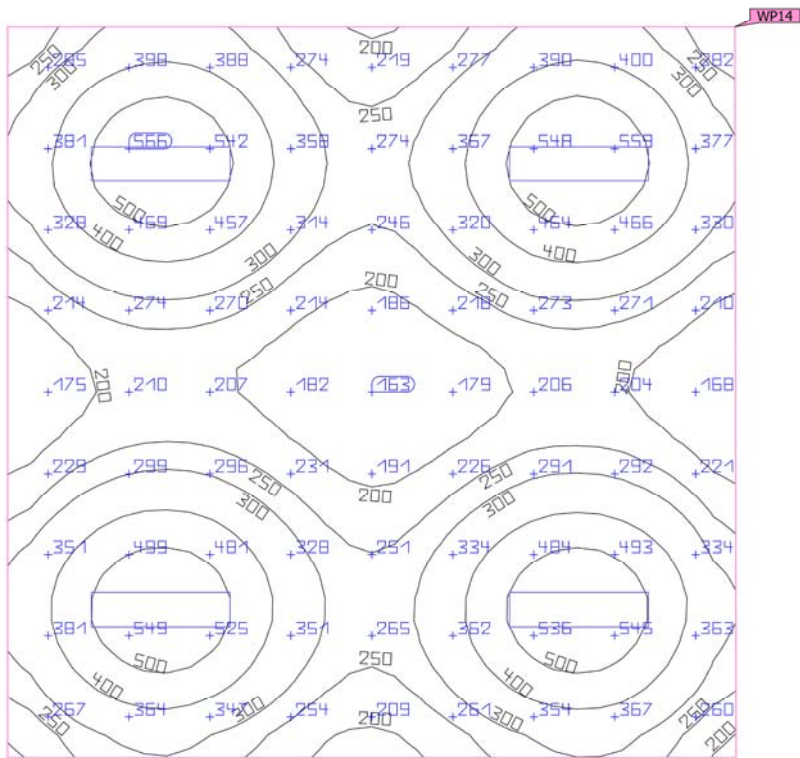
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klasa e Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	326 lx (≥ 300 lx) ✓	158 lx	590 lx	0.48 (≥ 0.45) ✓	0.27	WP14

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

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Working plane (Klasa e Mesimit)

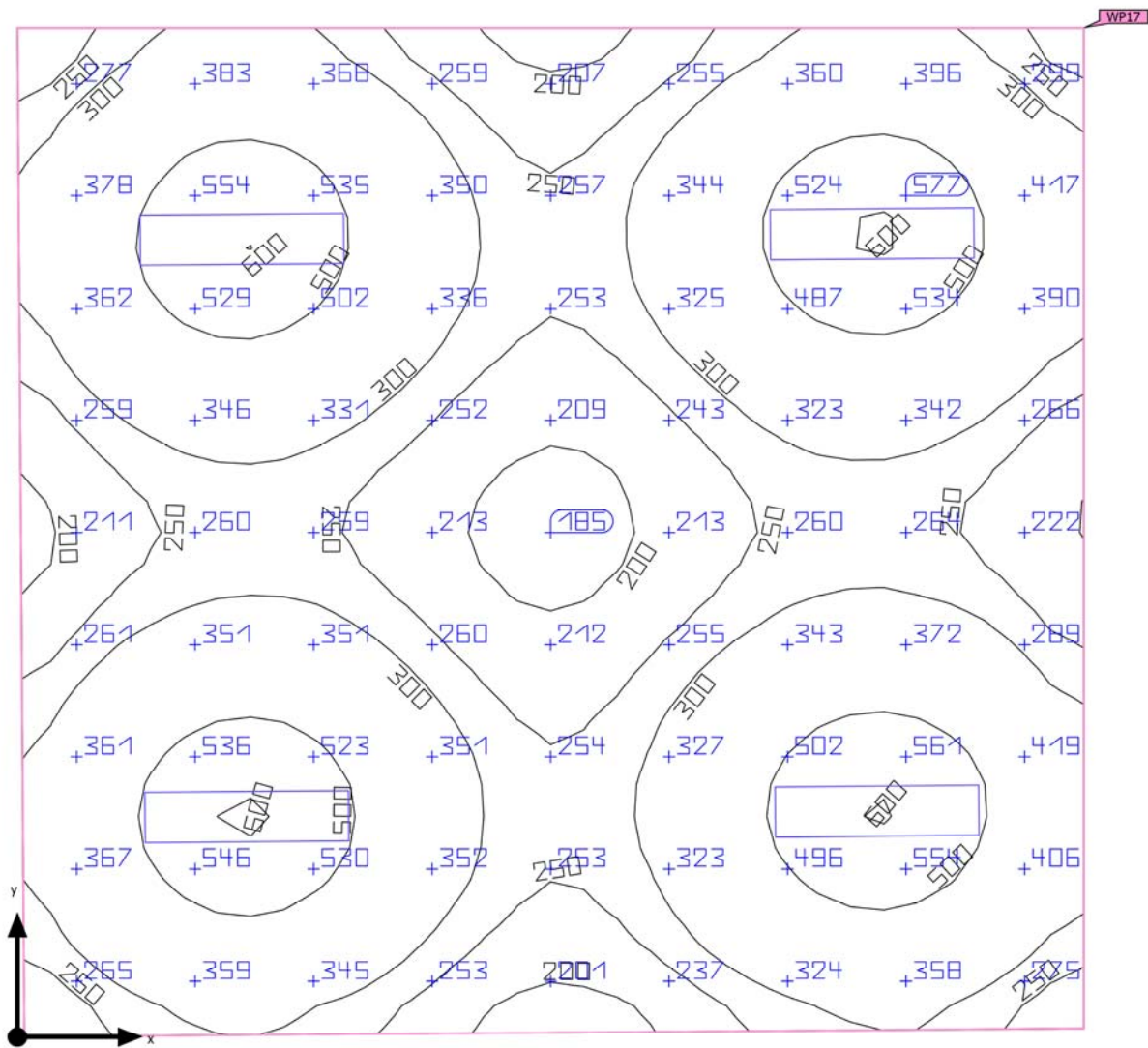


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klasa e Mesimit)	326 lx	158 lx	590 lx	0.48	0.27	WP14
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.45)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Summary



Ground area	36.90 m ²
Reflection factors	Ceiling: 80.0 %, Walls: 60.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.600 m
Mounting height	2.600 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	346 lx	≥ 300 lx	✓	WP17
	g_1	0.53	≥ 0.50	✓	WP17
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	18	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	192 kWh/a	max. 1300 kWh/a	✓	
Room	Lighting power density	3.91 W/m ²	–		
		1.13 W/m ² /100 lx	–		

(1) Based on a rectangular space of 5.940 m x 6.260 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

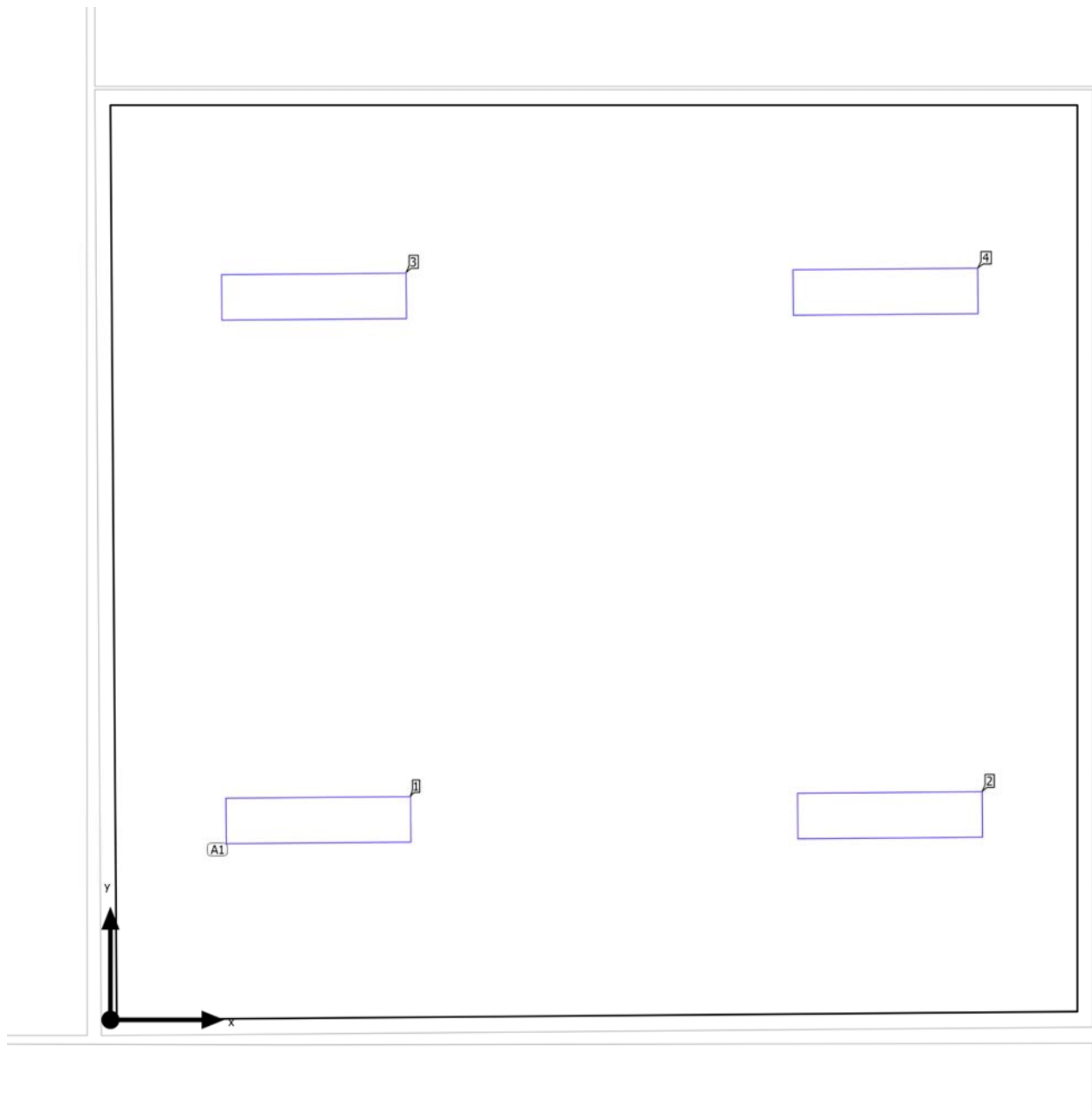
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

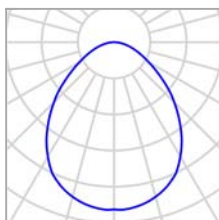
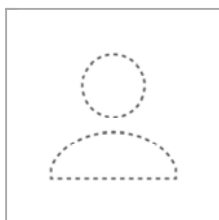
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	18	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Klasa e Mesimit

Luminaire layout plan



Building 1 · Kati 1 · Klasa e Mesimit

Luminaire layout plan

Manufacturer	Not yet a DIALux member
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE
Article name	4000K Ra80
Fitting	1x

P	36.1 W
$\Phi_{\text{Luminaire}}$	4321 lm

4 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.347 m / 1.296 m / 2.600 m	1.347 m	1.296 m	2.600 m	1
X-direction	2 pcs., Center - center, Distances not equal	5.047 m	1.327 m	2.600 m	2
		1.318 m	4.696 m	2.600 m	3
Y-direction	2 pcs., Center - center, Distances not equal	5.018 m	4.727 m	2.600 m	4
Arrangement	A1				

Building 1 · Kati 1 · Klasa e Mesimit

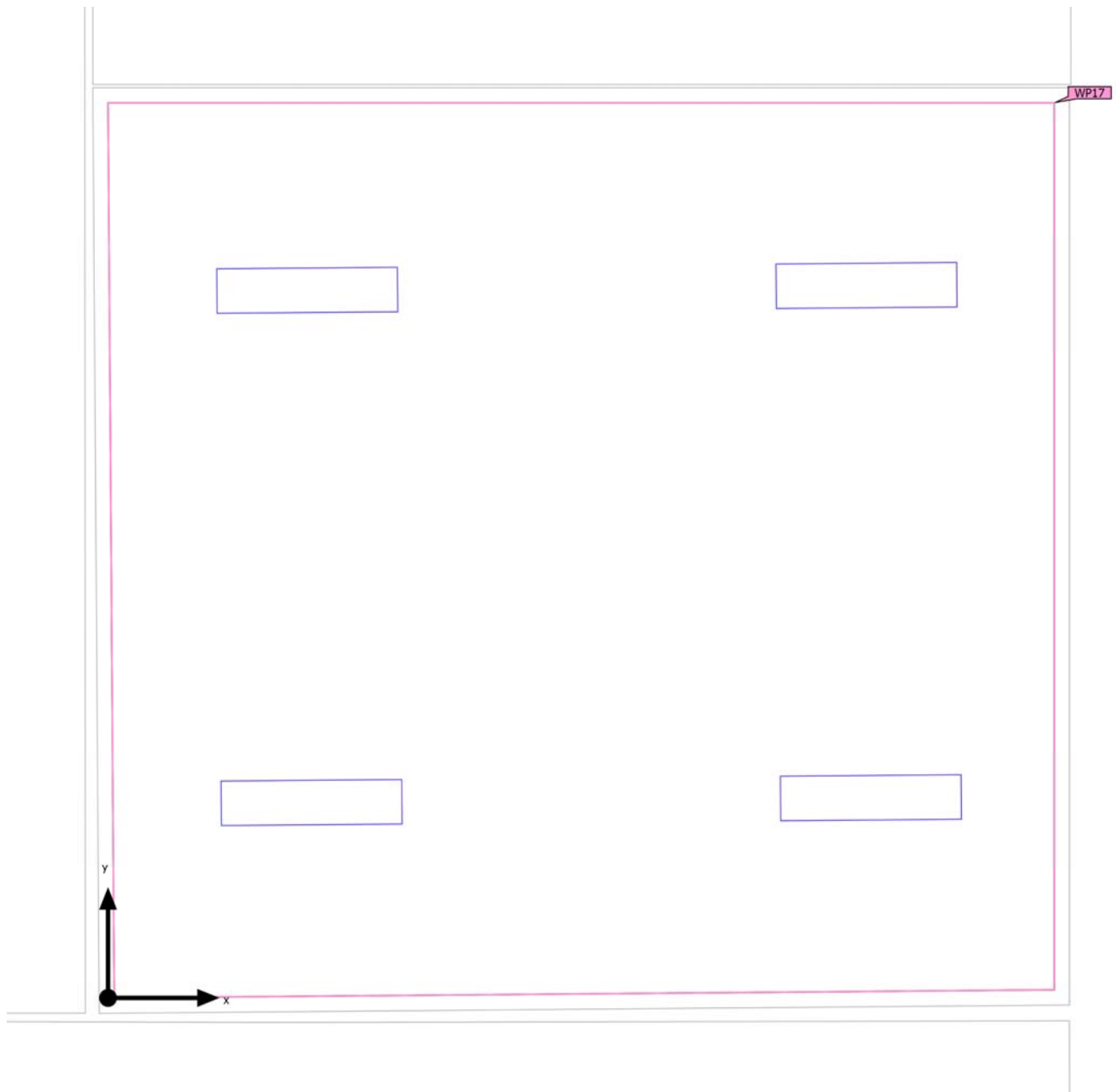
Luminaire list

Φ_{total} 17284 lm	P_{total} 144.4 W	Luminous efficacy 119.7 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0042695	4000K Ra80 START PANEL IP65 1200x300 4400lm 840 WHITE	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Calculation objects



Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Calculation objects

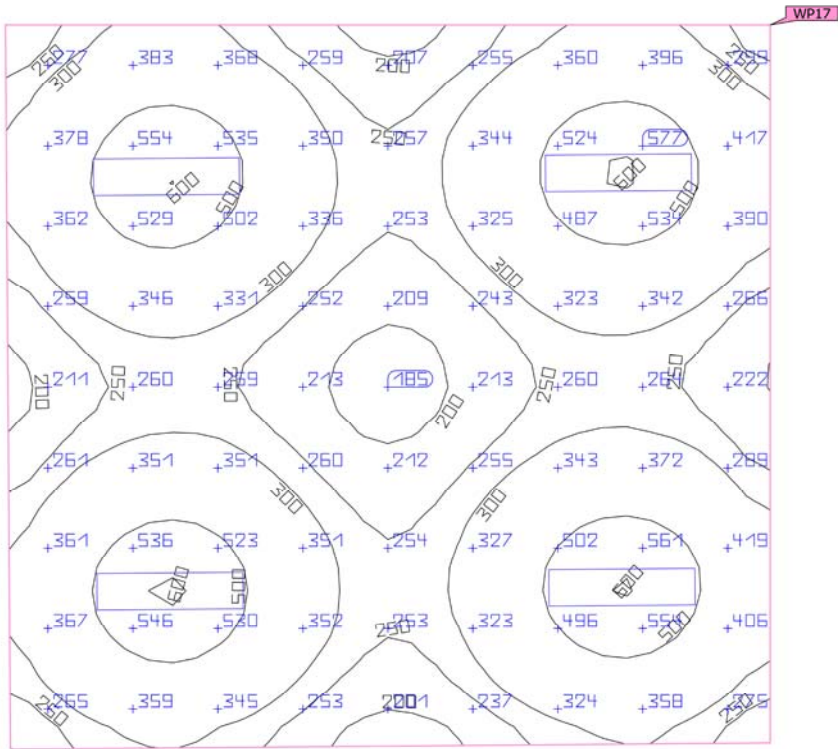
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klasa e Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	346 lx (≥ 300 lx) ✓	184 lx	602 lx	0.53 (≥ 0.50) ✓	0.31	WP17

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

Building 1 · Kati 1 · Klasa e Mesimit (Light scene 1)

Working plane (Klasa e Mesimit)

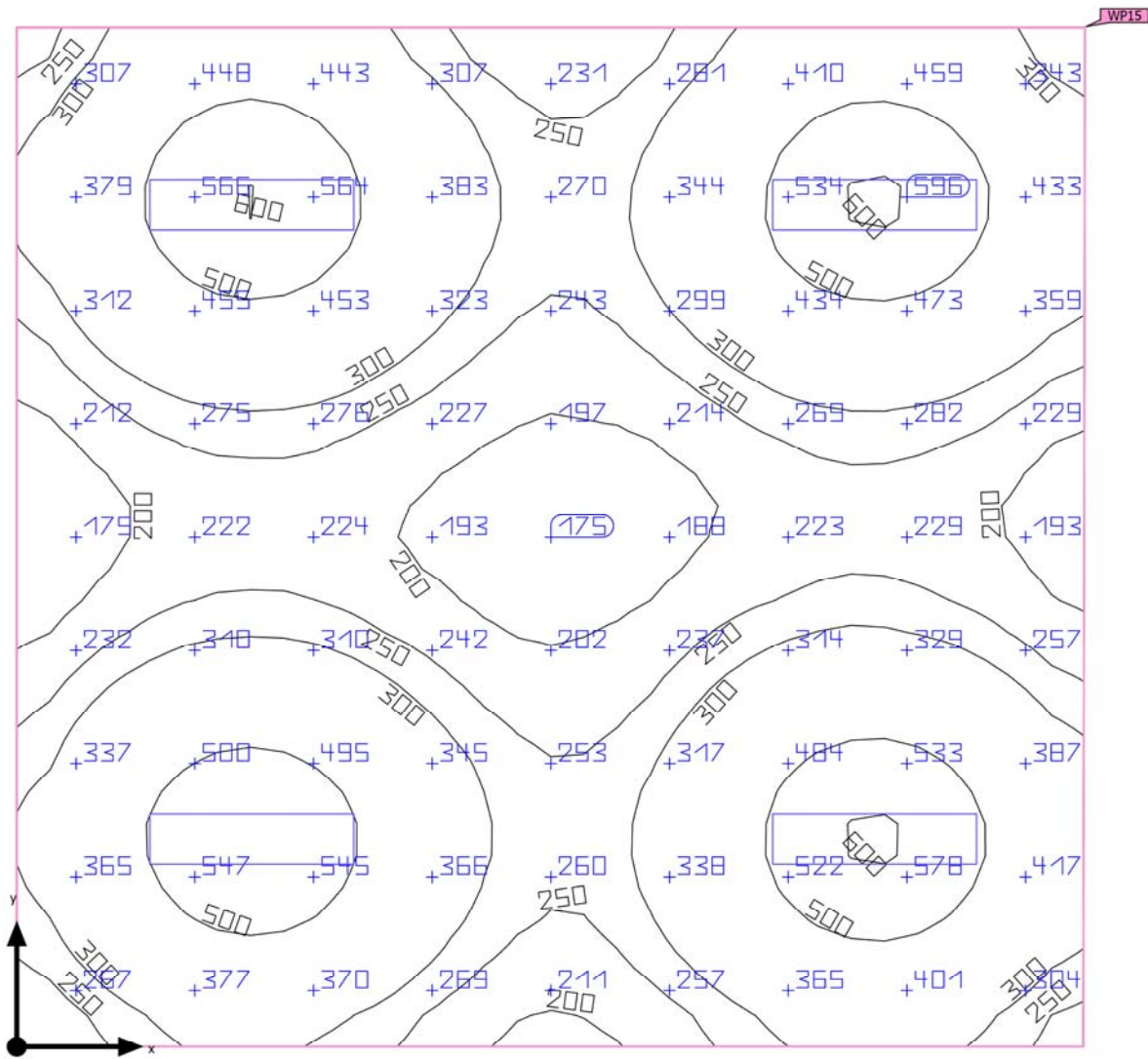


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klasa e Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	346 lx (≥ 300 lx) ✓	184 lx	602 lx	0.53 (≥ 0.50) ✓	0.31	WP17

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

Building 1 · Kati 1 · Klasa Mesimit (Light scene 1)

Summary



Ground area	37.47 m ²
Reflection factors	Ceiling: 80.0 %, Walls: 60.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.600 m
Mounting height	2.600 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

Building 1 · Kati 1 · Klasa Mesimit (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	339 lx	$\geq 300 \text{ lx}$	✓	WP15
	g_1	0.49	≥ 0.45	✓	WP15
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	18	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	192 kWh/a	max. 1350 kWh/a	✓	
Room	Lighting power density	3.85 W/m ²	–		
		1.14 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.260 m x 5.990 m and SHR of 0.25.

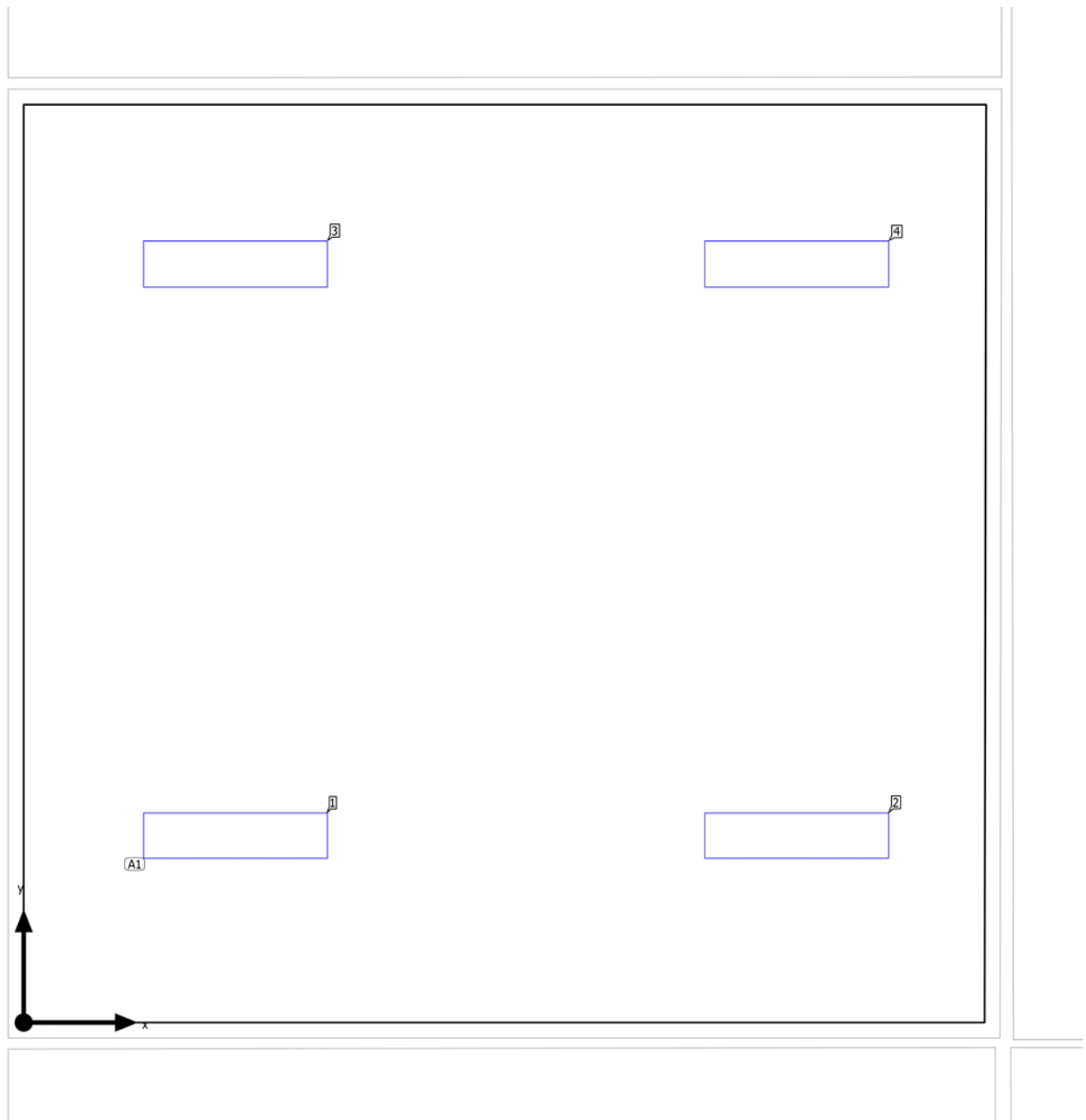
(2) Calculated using DIN:18599-4.

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

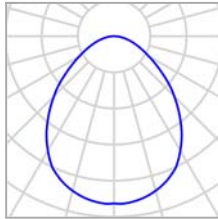
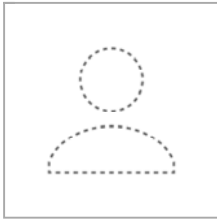
Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	18	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Klasa Mesimit

Luminaire layout plan

Building 1 · Kati 1 · Klasa Mesimit

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	36.1 W
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	$\Phi_{\text{Luminaire}}$	4321 lm
Article name	4000K Ra80		
Fitting	1x		

4 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.377 m / 1.221 m / 2.600 m	1.377 m	1.221 m	2.600 m	1
X-direction	2 pcs., Center - center, Distances not equal	5.027 m	1.221 m	2.600 m	2
		1.377 m	4.948 m	2.600 m	3
Y-direction	2 pcs., Center - center, Distances not equal	5.027 m	4.948 m	2.600 m	4
Arrangement	A1				

Building 1 · Kati 1 · Klasa Mesimit

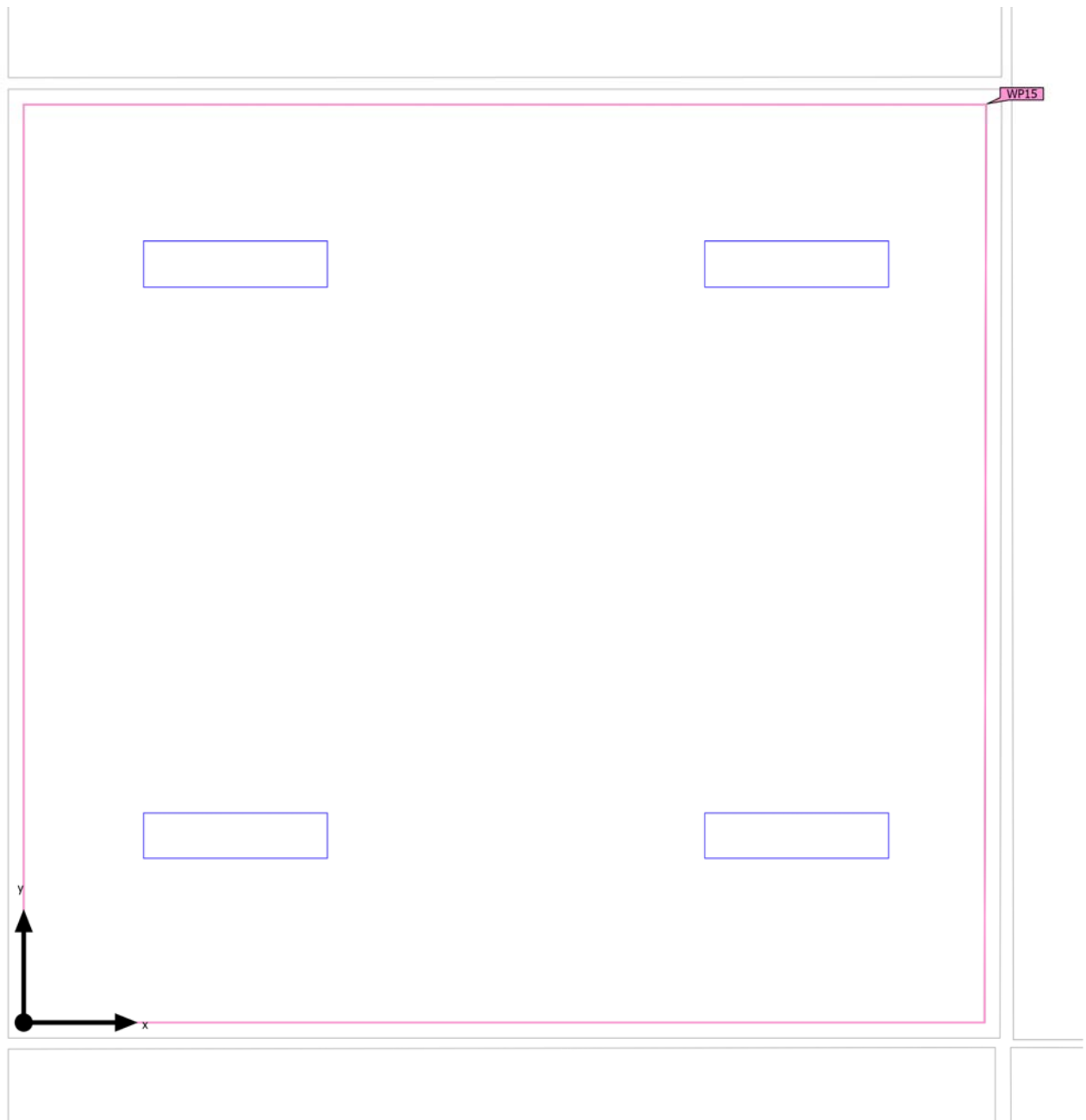
Luminaire list

Φ_{total} 17284 lm	P_{total} 144.4 W	Luminous efficacy 119.7 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0042695	4000K Ra80 START PANEL IP65 1200x300 4400lm 840 WHITE	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Klasa Mesimit (Light scene 1)

Calculation objects



Building 1 · Kati 1 · Klasa Mesimit (Light scene 1)

Calculation objects

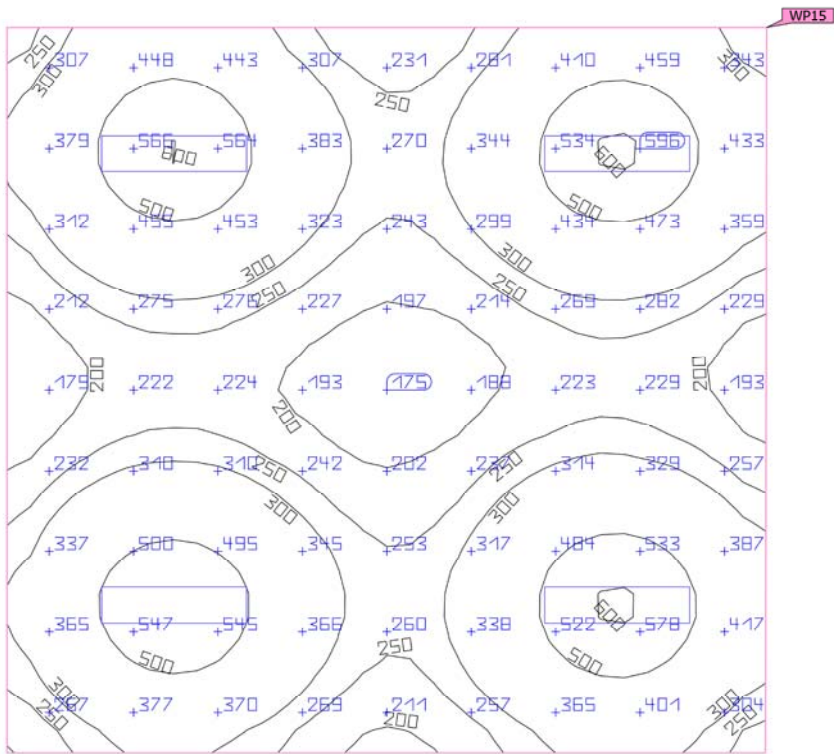
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klasa Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	339 lx (≥ 300 lx) ✓	166 lx	605 lx	0.49 (≥ 0.45) ✓	0.27	WP15

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

Building 1 · Kati 1 · Klasa Mesimit (Light scene 1)

Working plane (Klasa Mesimit)

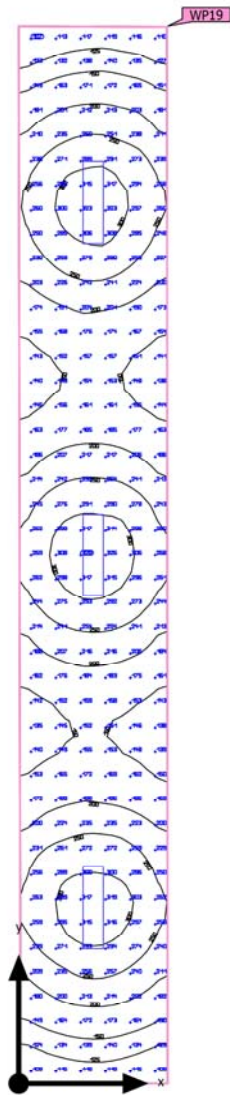


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klasa Mesimit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	339 lx (≥ 300 lx) ✓	166 lx	605 lx	0.49 (≥ 0.45) ✓	0.27	WP15

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

Building 1 · Kati 1 · Koridori (Light scene 1)

Summary



Ground area	33.23 m ²
Reflection factors	Ceiling: 80.0 %, Walls: 60.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.600 m
Mounting height	2.600 m
Height _{Working plane}	0.000 m
Wall zone _{Working plane}	0.000 m

Building 1 · Kati 1 · Koridori (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	213 lx	$\geq 100 \text{ lx}$	✓	WP19
	g_1	0.49	≥ 0.40	✓	WP19
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	18	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	119 kWh/a	max. 1200 kWh/a	✓	
Room	Lighting power density	3.26 W/m ²	–		
		1.53 W/m ² /100 lx	–		

(1) Based on a rectangular space of 15.451 m x 2.160 m and SHR of 0.25.

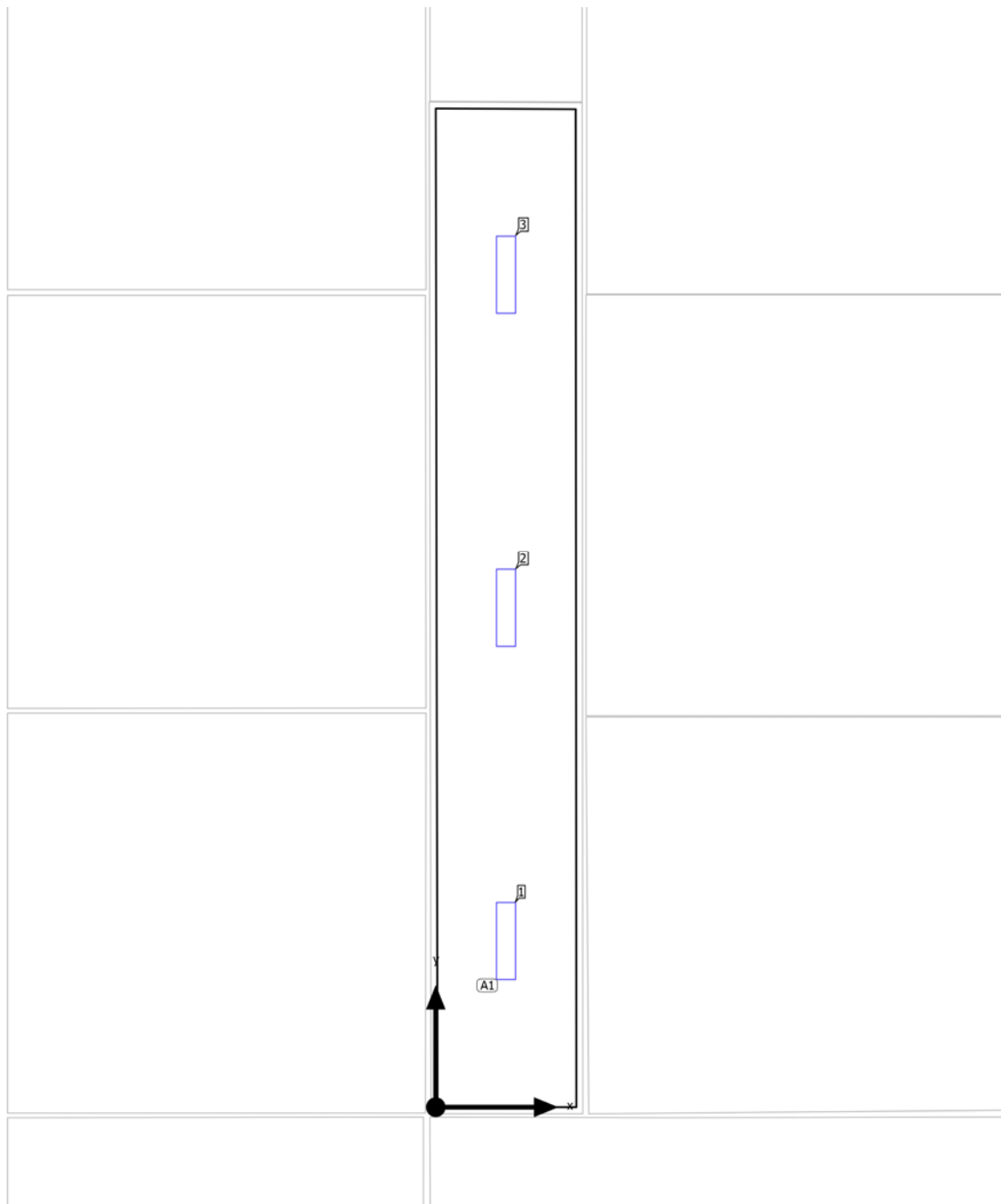
(2) Calculated using DIN:18599-4.

Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

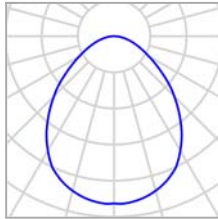
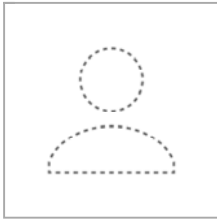
Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
3	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	18	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Koridori

Luminaire layout plan

Building 1 · Kati 1 · Koridori

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	36.1 W
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	$\Phi_{\text{Luminaire}}$	4321 lm
Article name	4000K Ra80		
Fitting	1x		

3 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.085 m / 2.575 m / 2.600 m	1.085 m	2.575 m	2.600 m	1
X-direction	1 pcs., Center - center, 2.170 m	1.085 m	7.725 m	2.600 m	2
Y-direction	3 pcs., Center - center, 5.150 m	1.085 m	12.875 m	2.600 m	3
Arrangement	A1				

Building 1 · Kati 1 · Koridori

Luminaire list Φ_{total}

12963 lm

 P_{total}

108.3 W

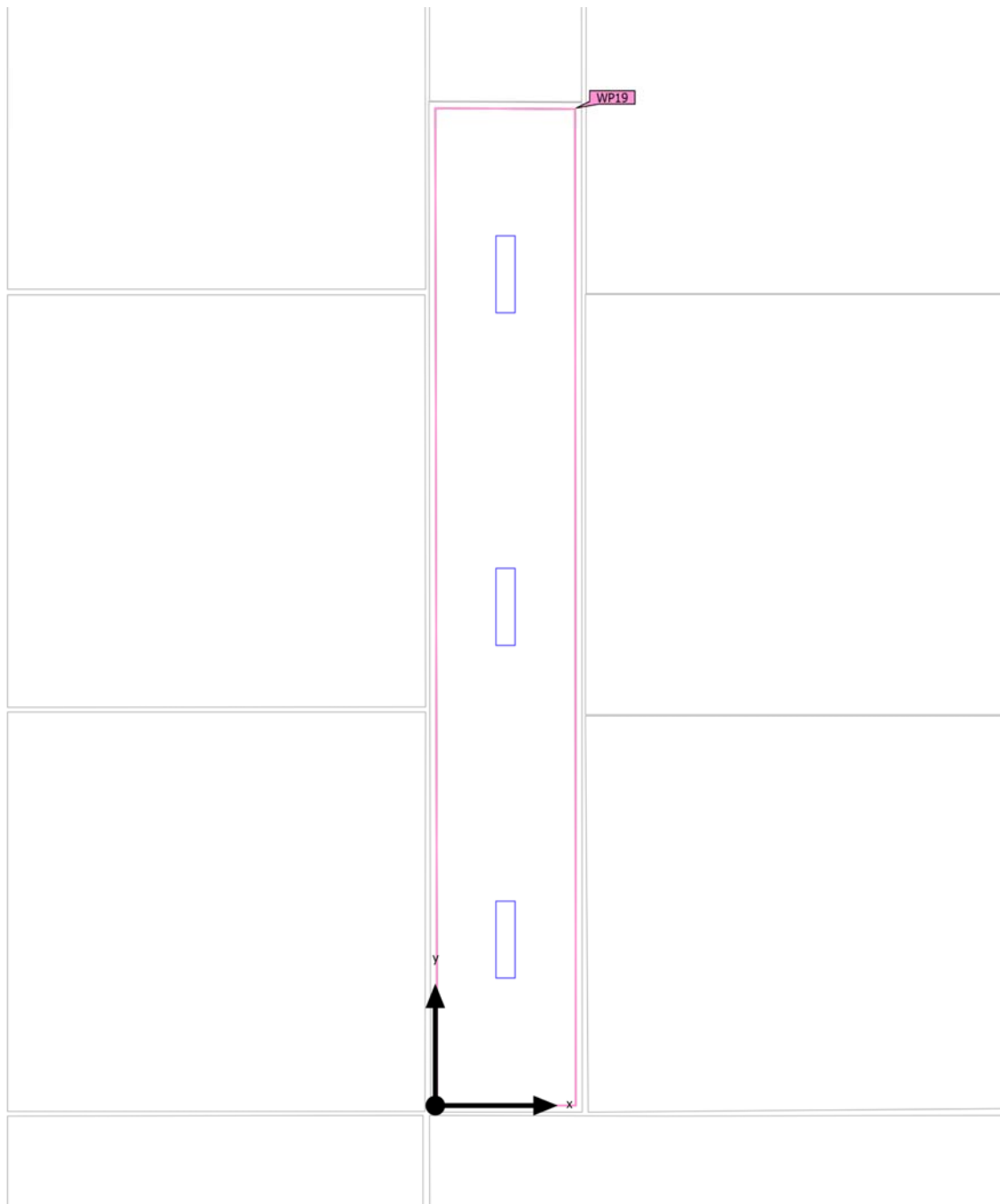
Luminous efficacy

119.7 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	Not yet a DIALux member	0042695	4000K Ra80 START PANEL IP65 1200x300 4400lm 840 WHITE	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Koridori (Light scene 1)

Calculation objects



Building 1 · Kati 1 · Koridori (Light scene 1)

Calculation objects

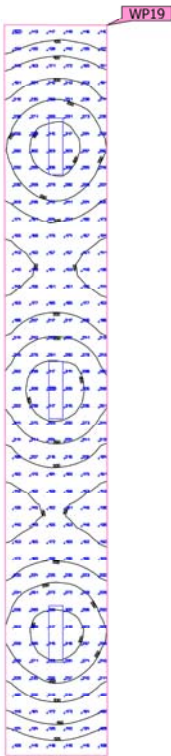
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridori) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	213 lx (≥ 100 lx) ✓	105 lx	327 lx	0.49 (≥ 0.40) ✓	0.32	WP19

Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

Building 1 · Kati 1 · Koridori (Light scene 1)

Working plane (Koridori)

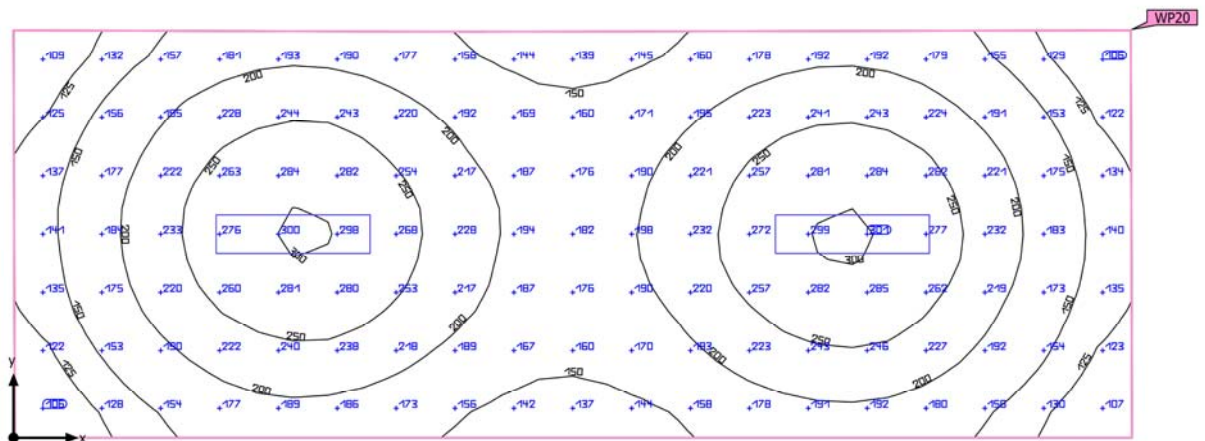


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridori) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	213 lx (≥ 100 lx) ✓	105 lx	327 lx	0.49 (≥ 0.40) ✓	0.32	WP19

Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

Building 1 · Kati 1 · Koridori (Light scene 1)

Summary



Ground area	27.44 m ²	Clearance height	2.600 m
Reflection factors	Ceiling: 80.0 %, Walls: 60.0 %, Floor: 20.0 %	Mounting height	2.600 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	0.000 m
		Wall zone _{Working plane}	0.000 m

Building 1 · Kati 1 · Koridori (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	197 lx	$\geq 100 \text{ lx}$	✓	WP20
	g_1	0.51	≥ 0.40	✓	WP20
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	17	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	79.4 kWh/a	max. 1000 kWh/a	✓	
Room	Lighting power density	2.63 W/m ²	–		
		1.33 W/m ² /100 lx	–		

(1) Based on a rectangular space of 8.680 m x 3.170 m and SHR of 0.25.

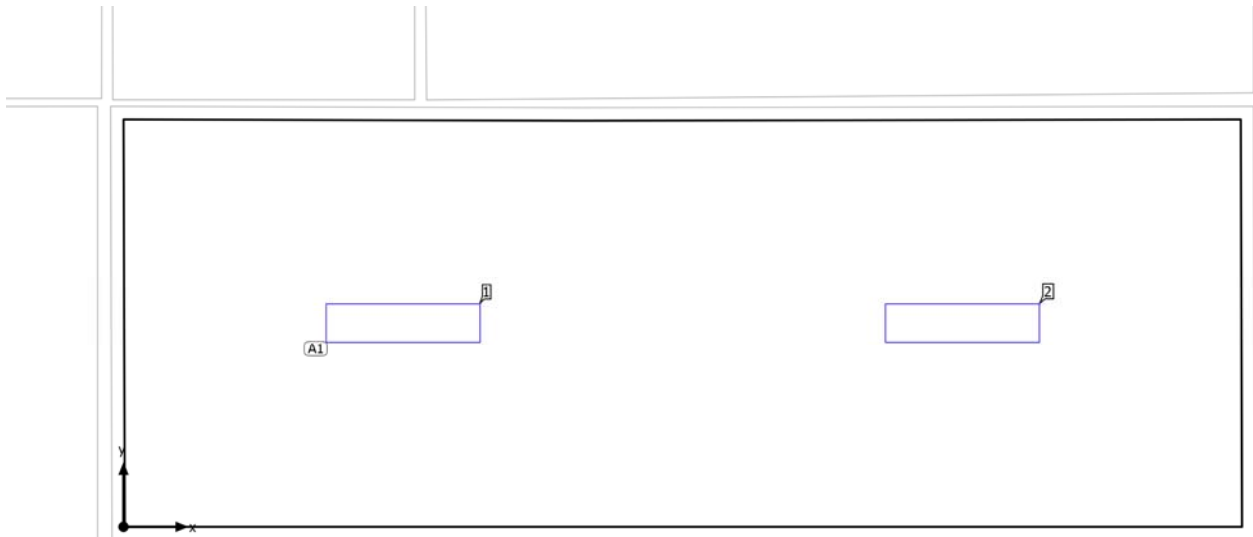
(2) Calculated using DIN:18599-4.

Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

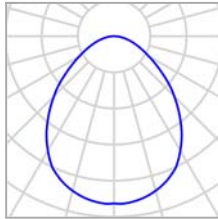
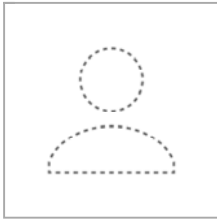
Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
2	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	17	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Koridori

Luminaire layout plan

Building 1 · Kati 1 · Koridori

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	36.1 W
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	$\Phi_{\text{Luminaire}}$	4321 lm
Article name	4000K Ra80		
Fitting	1x		

2 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	2.170 m / 1.585 m / 2.600 m	2.170 m	1.585 m	2.600 m	1
X-direction	2 pcs., Center - center, 4.340 m	6.510 m	1.585 m	2.600 m	2
Y-direction	1 pcs., Center - center, 3.170 m				
Arrangement	A1				

Building 1 · Kati 1 · Koridori

Luminaire list

Φ_{total} 8642 lm	P_{total} 72.2 W	Luminous efficacy 119.7 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	Not yet a DIALux member	0042695	4000K Ra80 START PANEL IP65 1200x300 4400lm 840 WHITE	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Koridori (Light scene 1)

Calculation objects



Building 1 · Kati 1 · Koridori (Light scene 1)

Calculation objects

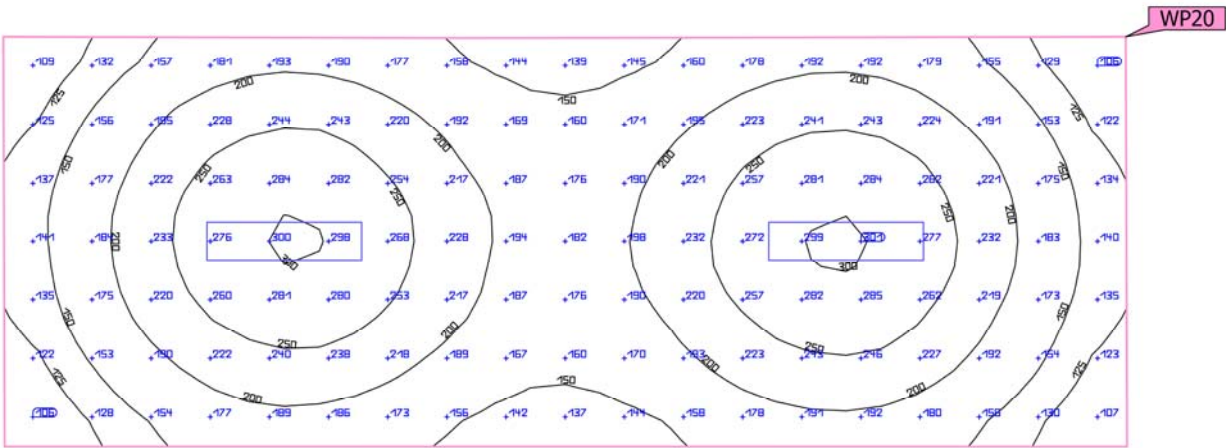
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridori) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	197 lx (≥ 100 lx) ✓	100 lx	302 lx	0.51 (≥ 0.40) ✓	0.33	WP20

Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

Building 1 · Kati 1 · Koridori (Light scene 1)

Working plane (Koridori)

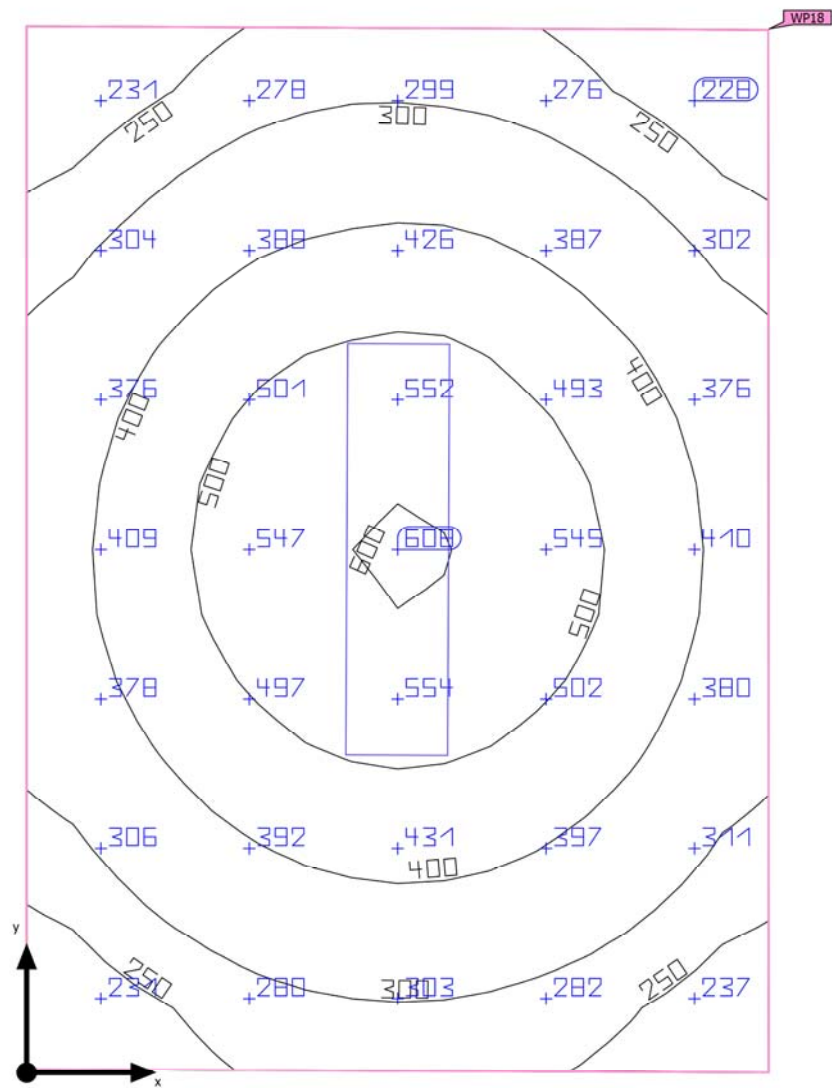


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridori)	197 lx	100 lx	302 lx	0.51	0.33	WP20
Perpendicular illuminance (adaptive)	≥ 100 lx			≥ 0.40		
Height: 0.000 m, Wall zone: 0.000 m	✓			✓		

Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

Building 1 · Kati 1 · Room 18 (Light scene 1)

Summary



Ground area	6.51 m ²
Reflection factors	Ceiling: 80.0 %, Walls: 60.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.600 m
Mounting height	2.600 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

Building 1 · Kati 1 · Room 18 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	383 lx	≥ 200 lx	✓	WP18
	g_1	0.53	≥ 0.50	✓	WP18
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	16	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	69.5 kWh/a	max. 250 kWh/a	✓	
Room	Lighting power density	5.54 W/m ²	–		
		1.45 W/m ² /100 lx	–		

(1) Based on a rectangular space of 3.041 m x 2.150 m and SHR of 0.25.

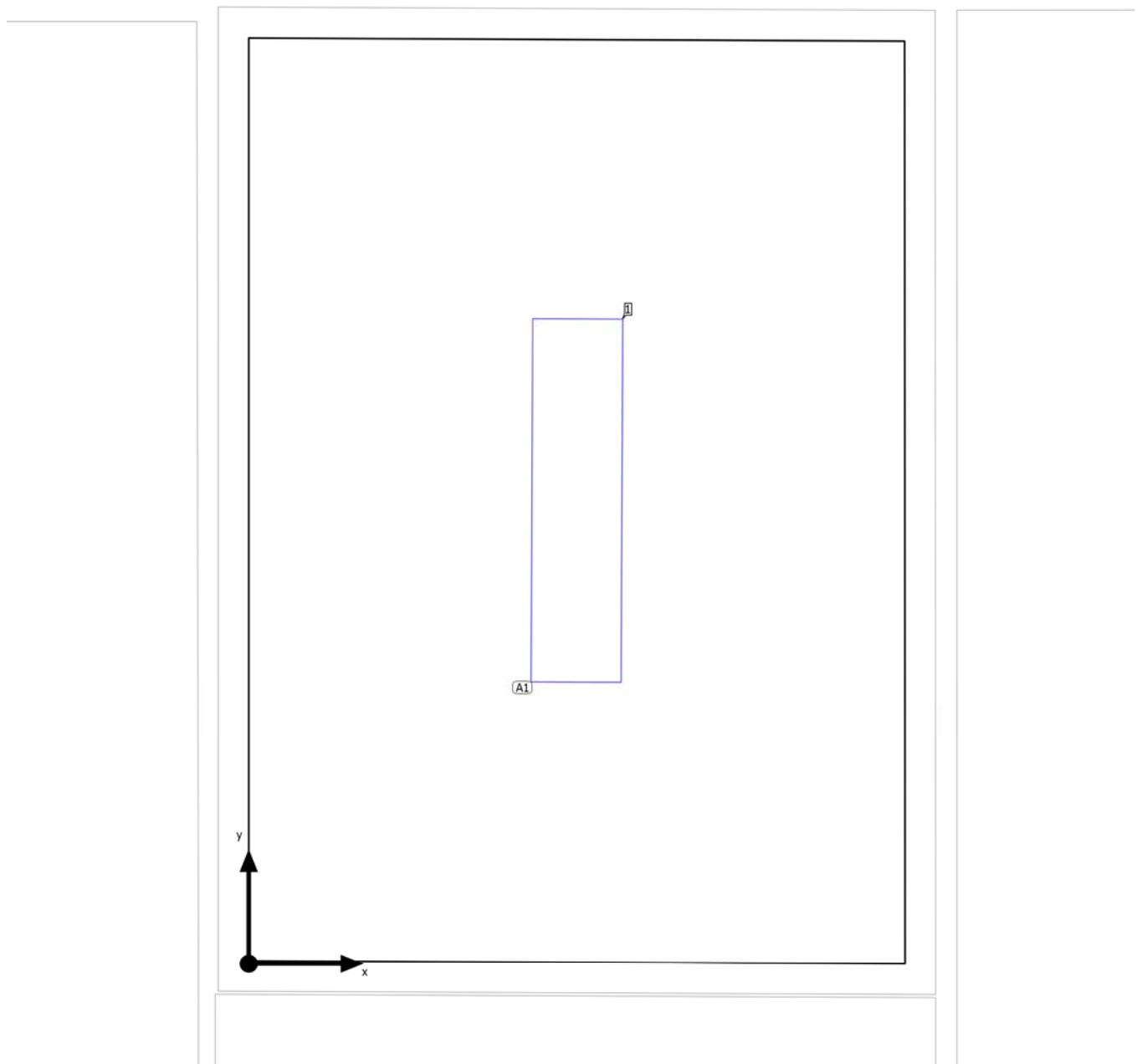
(2) Calculated using DIN:18599-4.

Utilization profile: Health care premises - Rooms for general use (5.37.1 Waiting rooms)

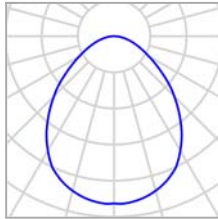
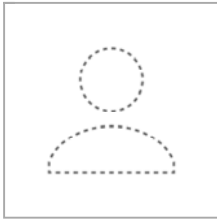
Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
1	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	16	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Room 18

Luminaire layout plan

Building 1 · Kati 1 · Room 18

Luminaire layout plan

Manufacturer	Not yet a DIALux member	P	36.1 W
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	$\Phi_{\text{Luminaire}}$	4321 lm
Article name	4000K Ra80		
Fitting	1x		

1 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.075 m / 1.520 m / 2.600 m	1.075 m	1.520 m	2.600 m	1
X-direction	1 pcs., Center - center, 2.164 m				
Y-direction	1 pcs., Center - center, 3.030 m				
Arrangement	A1				

Building 1 · Kati 1 · Room 18

Luminaire list Φ_{total}

4321 lm

 P_{total}

36.1 W

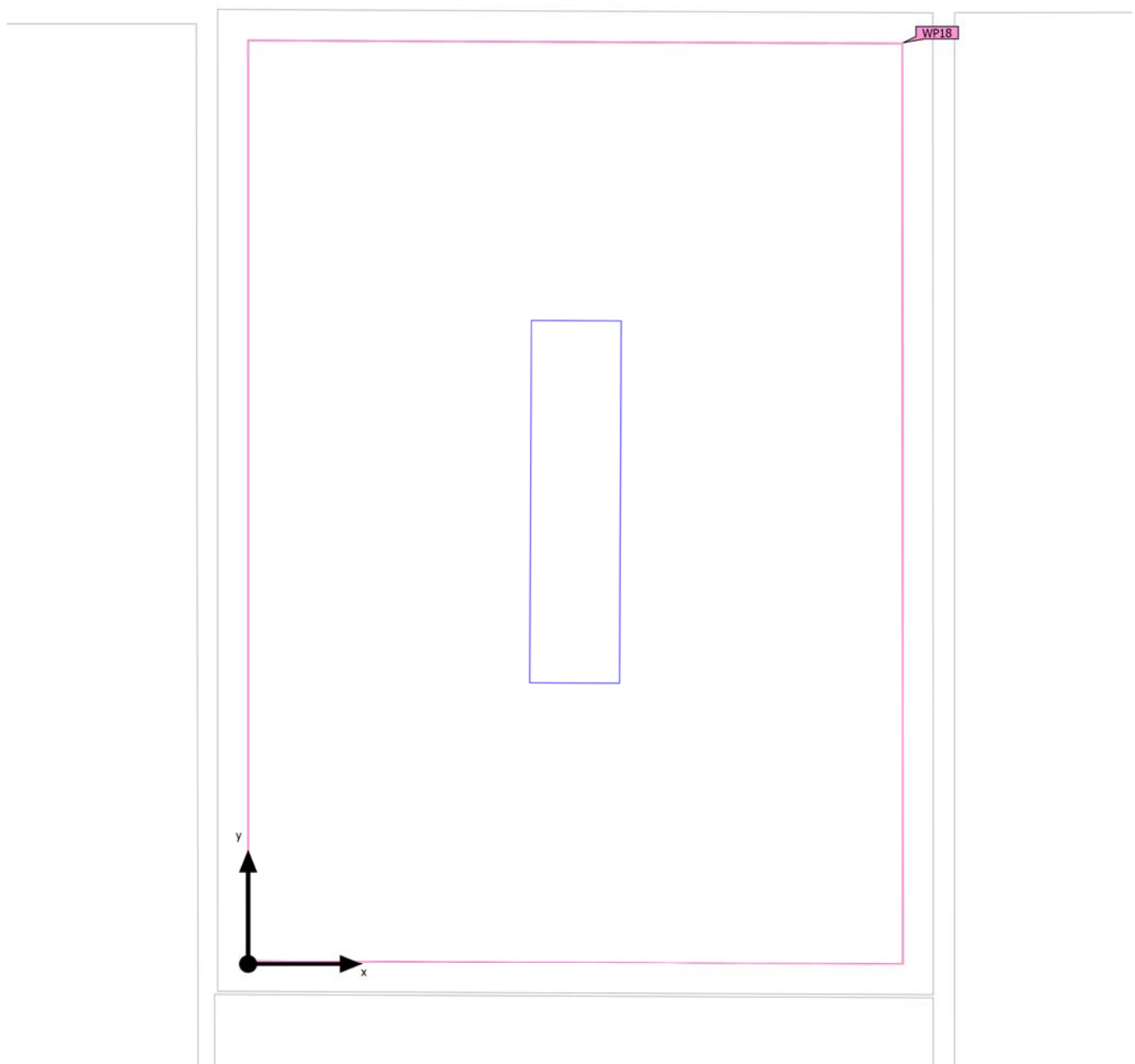
Luminous efficacy

119.7 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	Not yet a DIALux member	0042695	4000K Ra80 START PANEL IP65 1200x300 4400lm 840 WHITE	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Room 18 (Light scene 1)

Calculation objects



Building 1 · Kati 1 · Room 18 (Light scene 1)

Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Room 18) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	383 lx (≥ 200 lx) ✓	203 lx	600 lx	0.53 (≥ 0.50) ✓	0.34	WP18

Utilization profile: Health care premises - Rooms for general use (5.37.1 Waiting rooms)

Building 1 · Kati 1 · Room 18 (Light scene 1)

Working plane (Room 18)

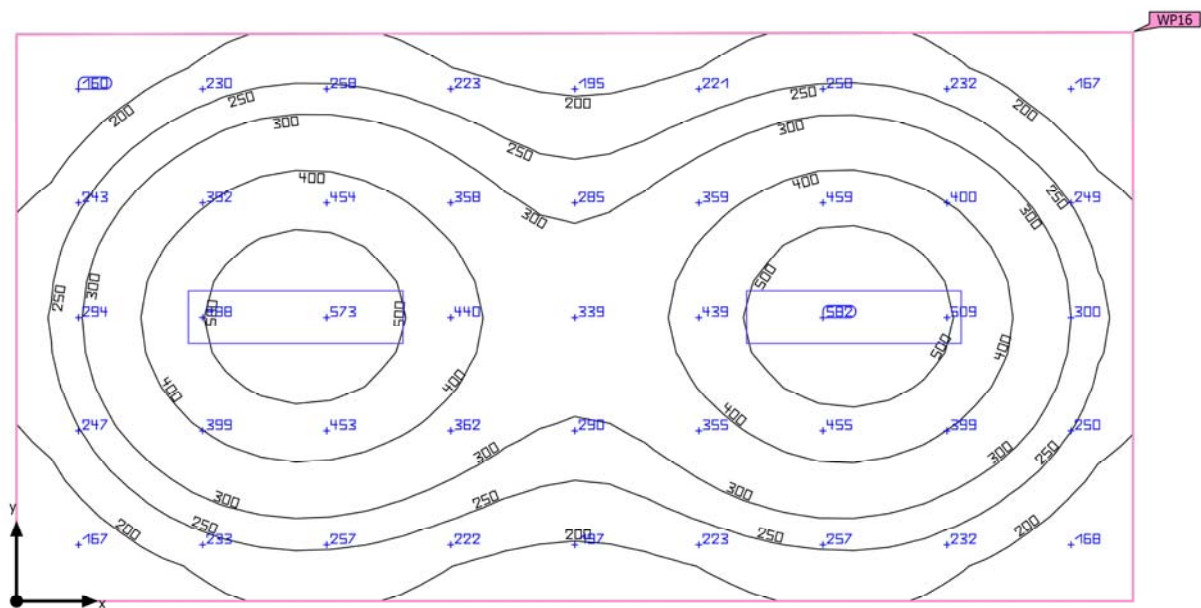


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Room 18)	383 lx	203 lx	600 lx	0.53	0.34	WP18
Perpendicular illuminance (adaptive)	≥ 200 lx			≥ 0.50		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

Utilization profile: Health care premises - Rooms for general use (5.37.1 Waiting rooms)

Building 1 · Kati 1 · Zyra e Drejtorit (Light scene 1)

Summary



Ground area	19.75 m ²
Reflection factors	Ceiling: 80.0 %, Walls: 60.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.600 m
Mounting height	2.600 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

Building 1 · Kati 1 · Zyra e Drejtorit (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	316 lx	≥ 200 lx	✓	WP16
	g_1	0.40	≥ 0.40	✓	WP16
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	17	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	139 kWh/a	max. 700 kWh/a	✓	
Room	Lighting power density	3.66 W/m ²	–		
		1.16 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.219 m x 3.180 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

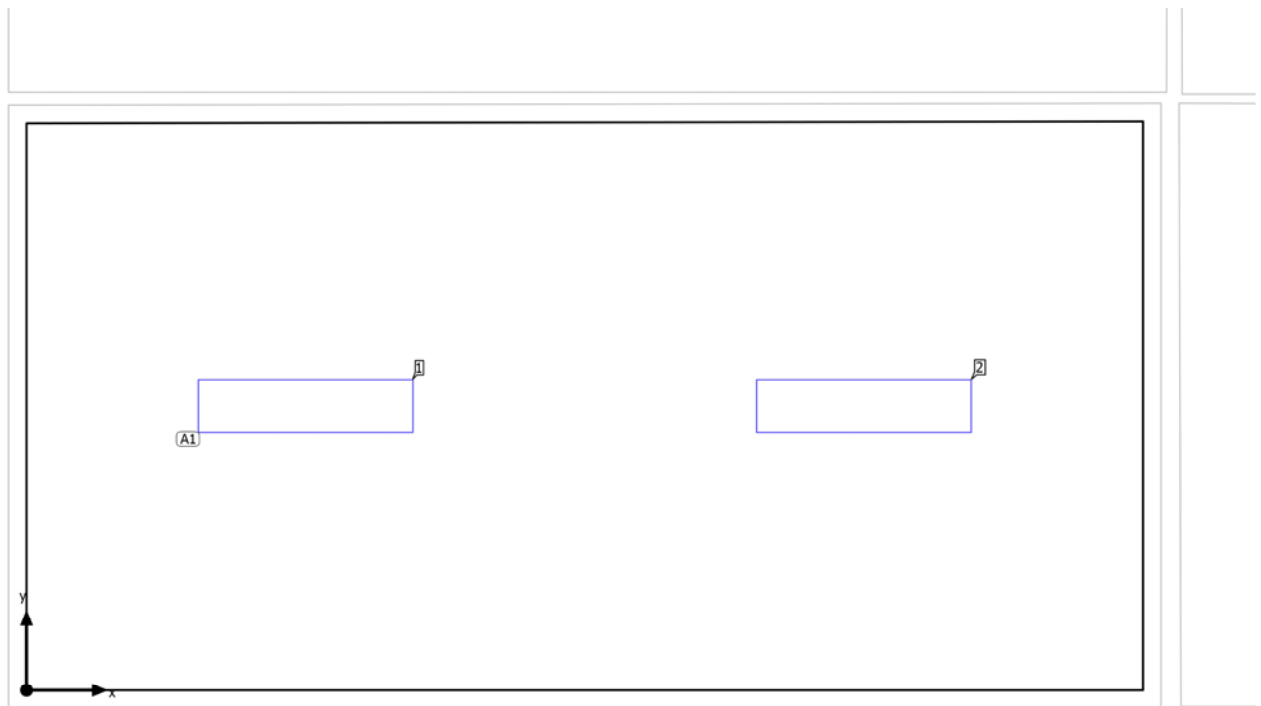
Utilization profile: Health care premises - Rooms for general use (5.37.1 Waiting rooms)

Luminaire list

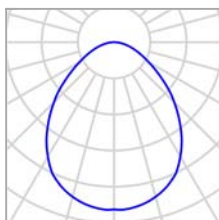
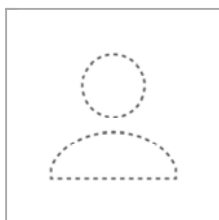
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
2	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	17	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Zyra e Drejtorit

Luminaire layout plan



Building 1 · Kati 1 · Zyra e Drejtorit

Luminaire layout plan

Manufacturer	Not yet a DIALux member
Article No.	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE
Article name	4000K Ra80
Fitting	1x

P	36.1 W
$\Phi_{\text{Luminaire}}$	4321 lm

2 x Not yet a DIALux member 4000K Ra80

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.555 m / 1.590 m / 2.600 m	1.555 m	1.590 m	2.600 m	1
X-direction	2 pcs., Center - center, 3.110 m	4.664 m	1.590 m	2.600 m	2
Y-direction	1 pcs., Center - center, 3.180 m				
Arrangement	A1				

Building 1 · Kati 1 · Zyra e Drejtorit

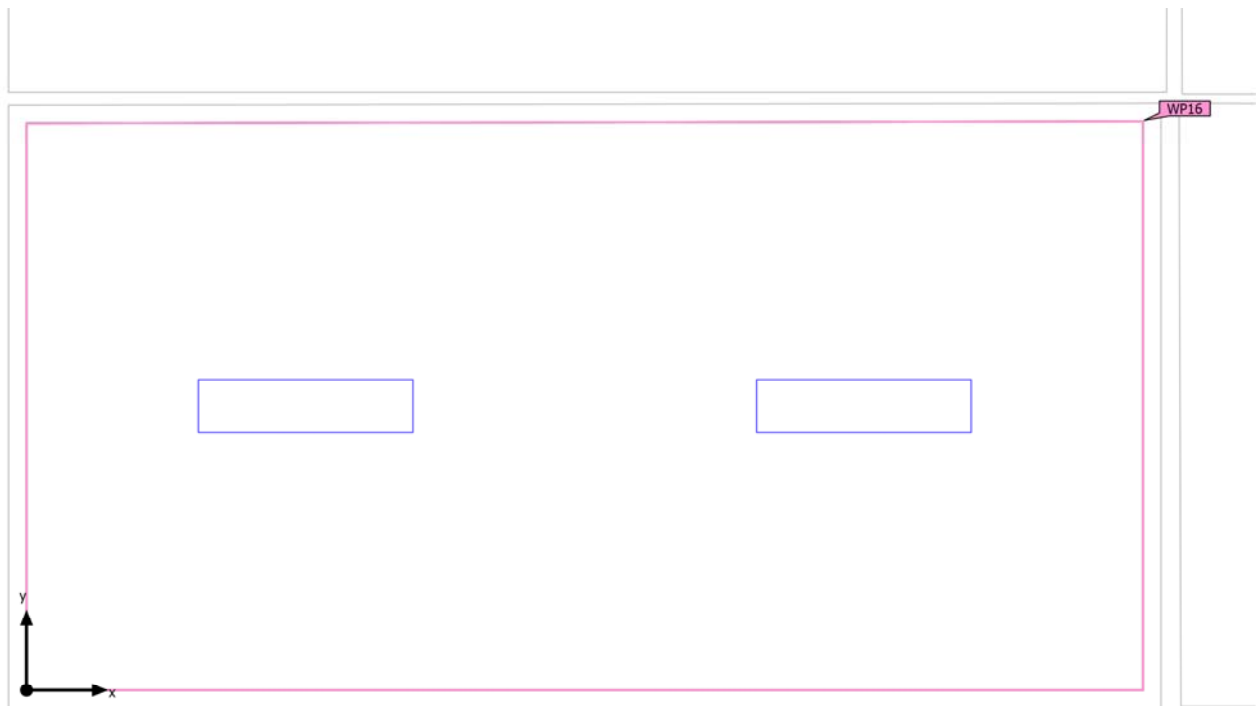
Luminaire list

Φ_{total} 8642 lm	P_{total} 72.2 W	Luminous efficacy 119.7 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	Not yet a DIALux member	0042695 START PANEL IP65 1200x300 4400lm 840 WHITE	4000K Ra80	36.1 W	4321 lm	119.7 lm/W

Building 1 · Kati 1 · Zyra e Drejtorit (Light scene 1)

Calculation objects



Building 1 · Kati 1 · Zyra e Drejtorit (Light scene 1)

Calculation objects

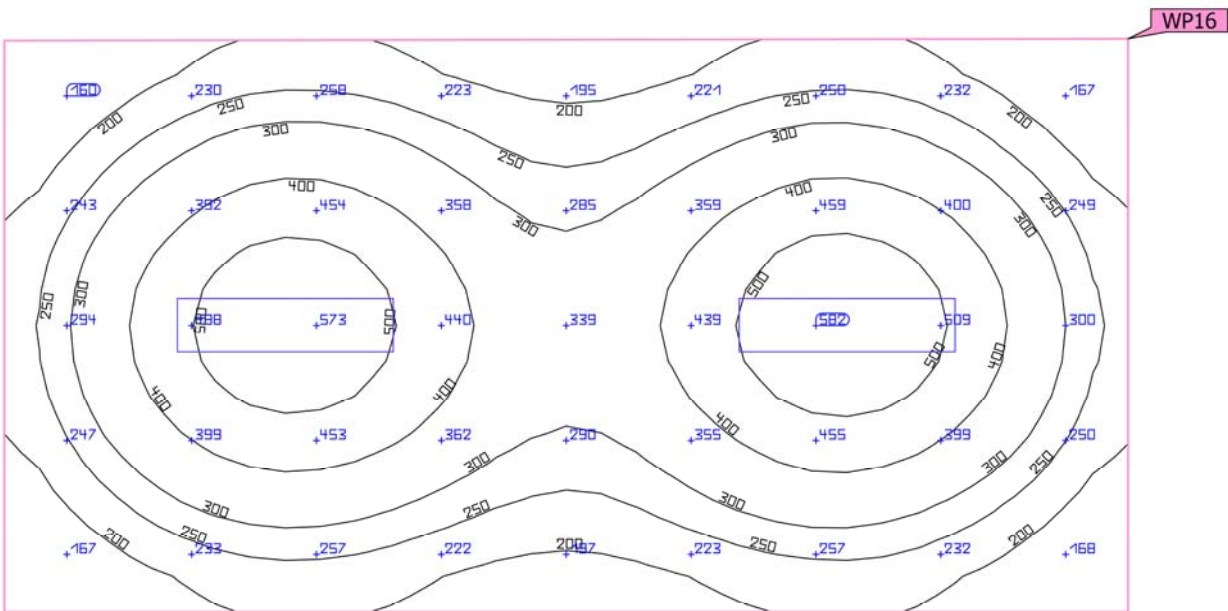
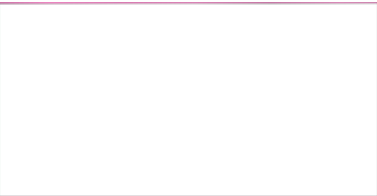
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Zyra e Drejtorit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	316 lx (≥ 200 lx) ✓	127 lx	577 lx	0.40 (≥ 0.40) ✓	0.22	WP16

Utilization profile: Health care premises - Rooms for general use (5.37.1 Waiting rooms)

Building 1 · Kati 1 · Zyra e Drejtorit (Light scene 1)

Working plane (Zyra e Drejtorit)



Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Zyra e Drejtorit) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	316 lx (≥ 200 lx) ✓	127 lx	577 lx	0.40 (≥ 0.40) ✓	0.22	WP16

Utilization profile: Health care premises - Rooms for general use (5.37.1 Waiting rooms)

Glossary

A

A	Formula symbol for a surface in the geometry
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B

Background area	The background area borders the direct ambient area according to DIN EN 12464-1 and reaches up to the borders of the room. In larger rooms, the background area is at least 3 m wide. It is located horizontally at floor level.
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C

CCT	<p>(correlated color temperature)</p> <p>Body temperature of a thermal radiator that serves to describe its light color. Unit: Kelvin [K]. The lesser the numerical value the redder; the greater the numerical value the bluer the light color. The color temperature of gas-discharge lamps and semi-conductors are termed "correlated color temperature" in contrast to the color temperature of thermal radiators.</p> <p>Allocation of the light colors to the color temperature ranges acc. to EN 12464-1:</p> <p>Light color - color temperature [K] warm white (ww) < 3,300 K neutral white (nw) ≥ 3,300 – 5,300 K daylight white (dw) > 5,300 K</p>
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Clearance height	The designation for the distance between upper edge of the floor and bottom edge of the ceiling (in the completely furnished status of room).
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Control group	A group of luminaires that are dimmed and controlled together. For each lighting scene, a control group provides its own dimming value. All luminaires within a control group share this dimming value. The control groups with their luminaires are automatically determined by DIALux on the basis of the created light scenes and their luminaire groups.
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CRI	<p>(color rendering index)</p> <p>Designation for the color rendering index of a luminaire or a lamp acc. to DIN 6169: 1976 or CIE 13.3: 1995.</p> <p>The general color rendering index Ra (or CRI) is a dimensionless figure that describes the quality of a white light source in regards to its similarity with the remission spectra of defined 8 test colors (see DIN 6169 or CIE 1974) to a reference light source.</p>
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Glossary

D

Daylight autonomy	Describes what percentage of the daily working time the required illuminance is met by daylight. The nominal illuminance is used from the room profile, unlike described in EN 17037. The calculation is not done in the centre of the room but at the placed sensor measuring point. A room is considered sufficiently supplied with daylight if it achieves at least 50% daylight autonomy.
Daylight factor	Ratio of the illuminance achieved solely by daylight incidence at a point in the inside to the horizontal illuminance in the outer area under an unobstructed sky. Formula symbol: D (daylight factor) Unit: %
Daylight quotient effective area	A calculation surface within which the daylight quotient is calculated.

E

Energy evaluation	<p>Based on an hourly calculation procedure for daylight in indoor spaces, considering the project geometry and any existing daylight control systems. Orientation and location of the project are also considered. The calculation uses the specified system power of the luminaires to determine the energy demand. A linear relationship between power and luminous flux in the dimmed state is assumed for daylight-controlled luminaires. Times of use and nominal illuminance are determined from the usage profiles of the spaces. Switched-on luminaires that are explicitly excluded from control also consider the specified times-of-use. The daylight control systems use a simplified control logic that closes them at an outdoor horizontal illuminance of 27,500lx.</p> <p>The calendar year 2022 is used as a reference only. It is not a simulation of this year. The reference year is only used to assign the days of the week to the calculated results. The changeover to summer time is not considered. The reference sky type used is the average sky described in CIE 110 without direct sunlight.</p> <p>The method was developed together with the Fraunhofer Institute for Building Physics and is available for review by the Joint Working Group 1 ISO TC 274 as an extension of the previous annual regression-based method.</p>
Eta (η)	<p>(light output ratio)</p> <p>The light output ratio describes what percentage of the luminous flux of a free radiating lamp (or LED module) is emitted by the luminaire when installed.</p> <p>Unit: %</p>

Glossary

G

g_1	Often also U_o (overall uniformity) Designates the overall uniformity of the illuminance on a surface. It is the quotient from E_{min} to \bar{E} and is required, for instance, in standards for illumination of workstations.
g_2	Actually it designates the "non-uniformity" of the illuminance on a surface. It is the quotient of E_{min} to E_{max} and is generally only relevant for certifying the emergency lighting acc. to EN 1838.

I

Illuminance	Describes the ratio of the luminous flux that strikes a certain surface to the size of this surface ($lm/m^2 = lx$). The illuminance is not tied to an object surface. It can be determined anywhere in space (inside or outside). The illuminance is not a product feature because it is a recipient value. Luxometers are used for measuring. Unit: Lux Abbreviation: lx Formula symbol: E
Illuminance, adaptive	For the determining of the middle adaptive illuminance on a surface, this is rastered "adaptively". In the area of large illuminance differences within the surface, the raster is subdivided finer; within lesser differences, a rougher classification is made.
Illuminance, horizontal	Illuminance that is calculated or measured on a horizontal (level) surface (this can be for example a table top or the floor). The horizontal illuminance is usually identified by the formula letter E_h .
Illuminance, perpendicular	Illuminance that is calculated or measured plumb-vertical to a surface. This needs to be taken into account for tilted surfaces. If the surface is horizontal or vertical, then there is no difference between the perpendicular and the horizontal or vertical illuminance.
Illuminance, vertical	Illuminance that is calculated or measured on a vertical surface (this can be for example the front of some shelves). The vertical illuminance is usually identified by the formula letter E_v .

L

LENI	(lighting energy numeric indicator) Lighting energy numeric indicator acc. to EN 15193 Unit: kWh/m ² year
Light loss factor	See MF

Glossary

LLMF	<p>(lamp lumen maintenance factor)/acc. to CIE 97: 2005</p> <p>Lamp flux maintenance factor that takes the luminous flux reduction into account of a luminaire or an LED module in the course of the operating time. The lamp flux maintenance factor is specified as a decimal digit and can have a maximum value of 1 (no luminous flux reduction existing).</p>
LMF	<p>(luminaire maintenance factor)/acc. to CIE 97: 2005</p> <p>Luminaire maintenance factor that takes the soiling into account of the luminaire in the course of the operating time. The luminaire maintenance factor is specified as a decimal digit and can have a maximum value of 1 (no soiling existing).</p>
LSF	<p>(lamp survival factor)/acc. to CIE 97: 2005</p> <p>Lamp survival factor that takes the total failure into account of a luminaire in the course of the operating time. The lamp survival factor is specified as a decimal digit and can have a maximum value of 1 (no failures existing within the time concerned or prompt replacement after the failure).</p>
Luminance	<p>Dimension for the "brightness impression" that the human eye has of a surface. The surface itself can emit light thereby or light striking it can be reflected (emitter value). It is the only photometric value that the human eye can perceive.</p> <p>Unit: Candela per square meter Abbreviation: cd/m² Formula symbol: L</p>
Luminous efficacy	<p>Ratio of the emitted luminous flux Φ [lm] to the absorbed electrical power P [W] Unit: lm/W.</p> <p>This ratio can be formed for the lamp or LED module (lamp or module light output), the lamp or module with control gear (system light output) and the complete luminaire (luminaire light output).</p>
Luminous flux	<p>Dimension for the total light output that is emitted from one light source in all directions. It is thus an "emitter value" that specifies the entire emitting output. The luminous flux of a light source can only be determined in a laboratory. A difference is made between the lamp or LED module luminous flux and the luminaire luminous flux.</p> <p>Unit: Lumen Abbreviation: lm Formula symbol: Φ</p>
Luminous intensity	<p>Describes the intensity of the light in a certain direction (emitter value). The luminous intensity is a matter of the luminous flux Φ that is emitted in a certain spherical angle Ω. The radiation characteristics of a light source are presented graphically in a light distribution curve (LDC). The luminous intensity is an SI base unit.</p> <p>Unit: Candela Abbreviation: cd Formula symbol: I</p>

Glossary

M

MF

(maintenance factor)/acc. to CIE 97: 2005

Maintenance factor as decimal number between 0 and 1 that describes the ratio of the new value of a photometric planning parameter (e.g. of the illuminance) to a maintenance value after a certain time. The maintenance factor takes into account the soiling of luminaires and rooms as well as the luminous flux reduction and the failure of light sources.

The maintenance factor is taken into account either overall or determined in detail acc. to CIE 97: 2005 by the formula $RMF \times LMF \times LLMF \times LSF$.

P

P

(power)

Electric power consumption

Unit: watt

Abbreviation: W

R

$R_{(UG)} \max$

Measure of the psychological glare in indoor spaces.

In addition to the luminance of luminaires, the level of the $R_{(UG)}$ value also depends on the observer position, the viewing direction and the ambient luminance. The calculation is made according to the table method, see CIE 117. Among other things, EN 12464-1:2021 specifies maximum permissible $R_{(UG)}$ -values $R_{(UGL)}$ for various indoor workplaces.

Reflection factor

The reflection factor of a surface describes how much of the striking light is reflected back. The reflection factor is defined by the color of the surface.

RMF

(room maintenance factor)/acc. to CIE 97: 2005

Room maintenance factor that takes the soiling into account of the space encompassing surfaces in the course of the operating time. The room maintenance factor is specified as a decimal digit and can have a maximum value of 1 (no soiling existing).

S

Surrounding area

The ambient area directly borders the area of the visual task and should be planned with a width of at least 0.5 m according to DIN EN 12464-1. It is at the same height as the area of the visual task.

Glossary

U

UGR (max)	(unified glare rating) Measure for the psychological glare effect in interiors. In addition to luminaire luminance, the UGR value also depends on the position of the observer, the viewing direction and the ambient luminance. Among other things, EN 12464-1 specifies maximum permissible UGR values for various indoor workplaces.
UGR observer	Calculation point in the room, for the DIALux the UGR value is determined. The location and height of the calculation point should correspond to the typical observer position (position and eye level of the user).

V

Visual task area	The area that is needed for carrying out the visual task in accordance with DIN EN 12464 -1. The height corresponds with the height at which the visual task is executed.
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W

Wall zone	Circumferential area between working plane and walls that is not taken into account for the calculation.
Working plane	Virtual measuring or calculation surface at the height of the visual task that generally follows the room geometry. The working plane may also feature a wall zone.