

## Llogaritjet Fotometrike

## Preliminary remarks

Notes on planning:

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

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### Building 1

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Site 1 - Building 1

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Site 1 - Building 1 - Story 1

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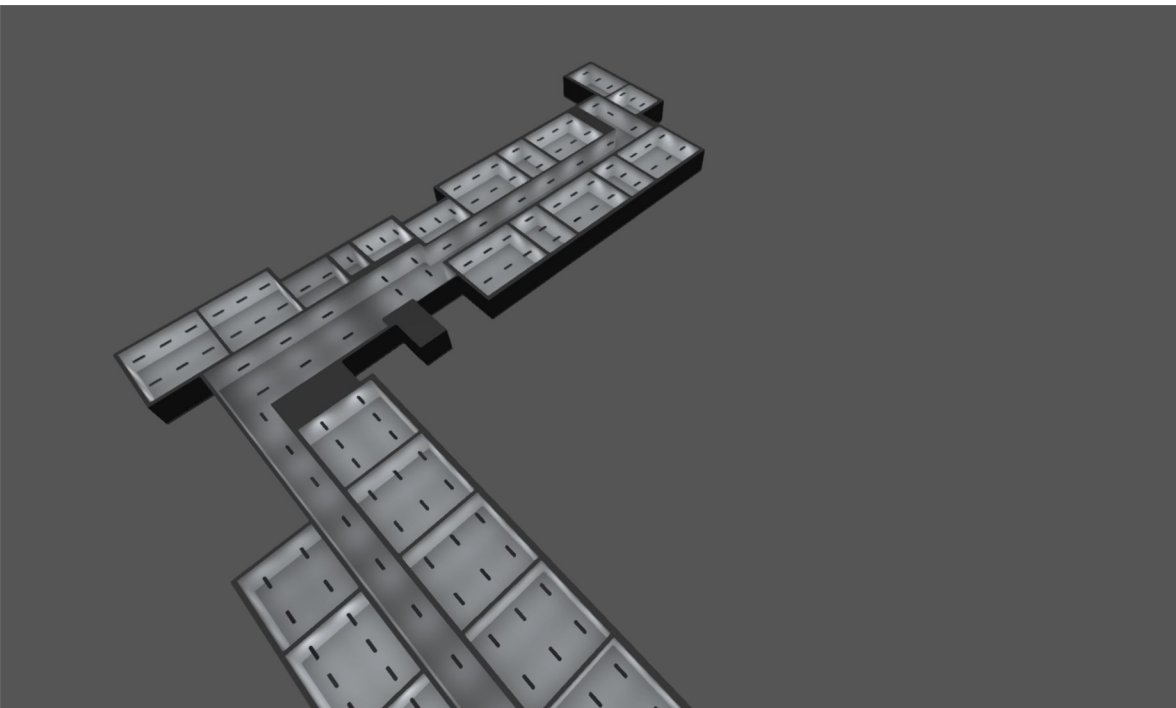
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## Description

## Luminaire list

 $\Phi_{\text{total}}$ 

648001 lm

 $P_{\text{total}}$ 

4619.0 W

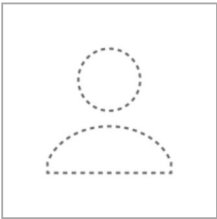
Luminous efficacy

140.3 lm/W

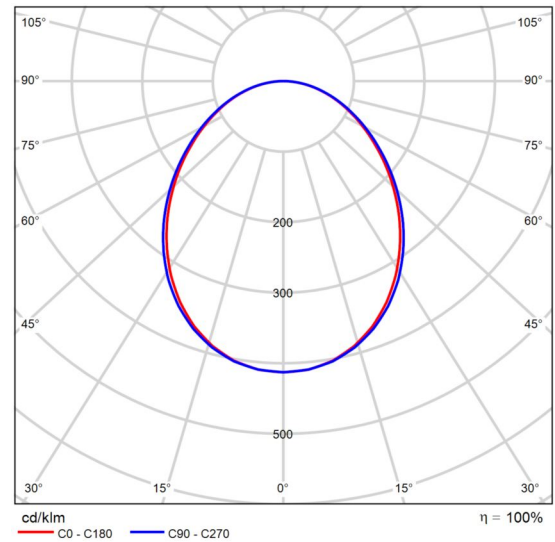
pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
149	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Product data sheet

Not yet a DIALux member - LYTEPANEL II 1200 4K DALI SM



Article No.	2059438
P	31.0 W
$\Phi_{Lamp}$	4349 lm
$\Phi_{Luminaire}$	4349 lm
$\eta$	100.00 %
Luminous efficacy	140.3 lm/W
CCT	3000 K
CRI	100



Polar LDC

Glare evaluation according to UGR												
p Ceiling	70	70	50	50	30	70	70	50	50	30		
p Walls	50	30	50	30	30	50	30	50	30	30		
p 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	17.3	18.6	17.6	18.9	19.1	17.5	18.8	17.8	19.1	19.3	
	3H	18.7	19.9	19.1	20.2	20.5	19.0	20.1	19.3	20.4	20.7	
	4H	19.4	20.5	19.7	20.8	21.0	19.6	20.7	19.9	21.0	21.3	
	6H	19.8	20.9	20.2	21.2	21.5	20.1	21.1	20.4	21.4	21.7	
	8H	20.0	21.0	20.4	21.3	21.7	20.2	21.2	20.6	21.6	21.9	
	12H	20.1	21.1	20.5	21.4	21.8	20.4	21.3	20.7	21.7	22.0	
4H	2H	18.0	19.1	18.3	19.4	19.7	18.1	19.2	18.5	19.5	19.8	
	3H	19.6	20.5	20.0	20.9	21.2	19.8	20.7	20.1	21.0	21.4	
	4H	20.3	21.2	20.7	21.5	21.9	20.5	21.4	20.9	21.7	22.1	
	6H	21.0	21.7	21.4	22.1	22.5	21.1	21.9	21.6	22.3	22.7	
	8H	21.2	21.9	21.6	22.3	22.7	21.4	22.1	21.8	22.5	22.9	
	12H	21.4	22.0	21.8	22.4	22.9	21.6	22.2	22.0	22.6	23.1	
8H	4H	20.6	21.3	21.1	21.7	22.2	20.8	21.5	21.2	21.9	22.3	
	6H	21.4	22.0	21.9	22.4	22.9	21.6	22.2	22.1	22.6	23.1	
	8H	21.8	22.3	22.3	22.7	23.2	21.9	22.5	22.4	22.9	23.4	
	12H	22.0	22.5	22.5	22.9	23.5	22.2	22.7	22.7	23.1	23.6	
12H	4H	20.7	21.3	21.1	21.7	22.2	20.8	21.5	21.3	21.9	22.3	
	6H	21.5	22.0	22.0	22.5	23.0	21.7	22.2	22.1	22.6	23.1	
	8H	21.9	22.3	22.4	22.8	23.3	22.1	22.5	22.6	23.0	23.5	
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 / -0.4					+0.2 / -0.4					
S = 2.0H		+0.4 / -0.7					+0.4 / -0.7					
Standard table		BK06					BK06					
Correction Summand		4.6					4.7					
Corrected glare indices referring to 4349lm Total luminous flux												

UGR diagram (SHR: 0.25)



Building 1

**Luminaire list** $\Phi_{\text{total}}$ 

648001 lm

 $P_{\text{total}}$ 

4619.0 W

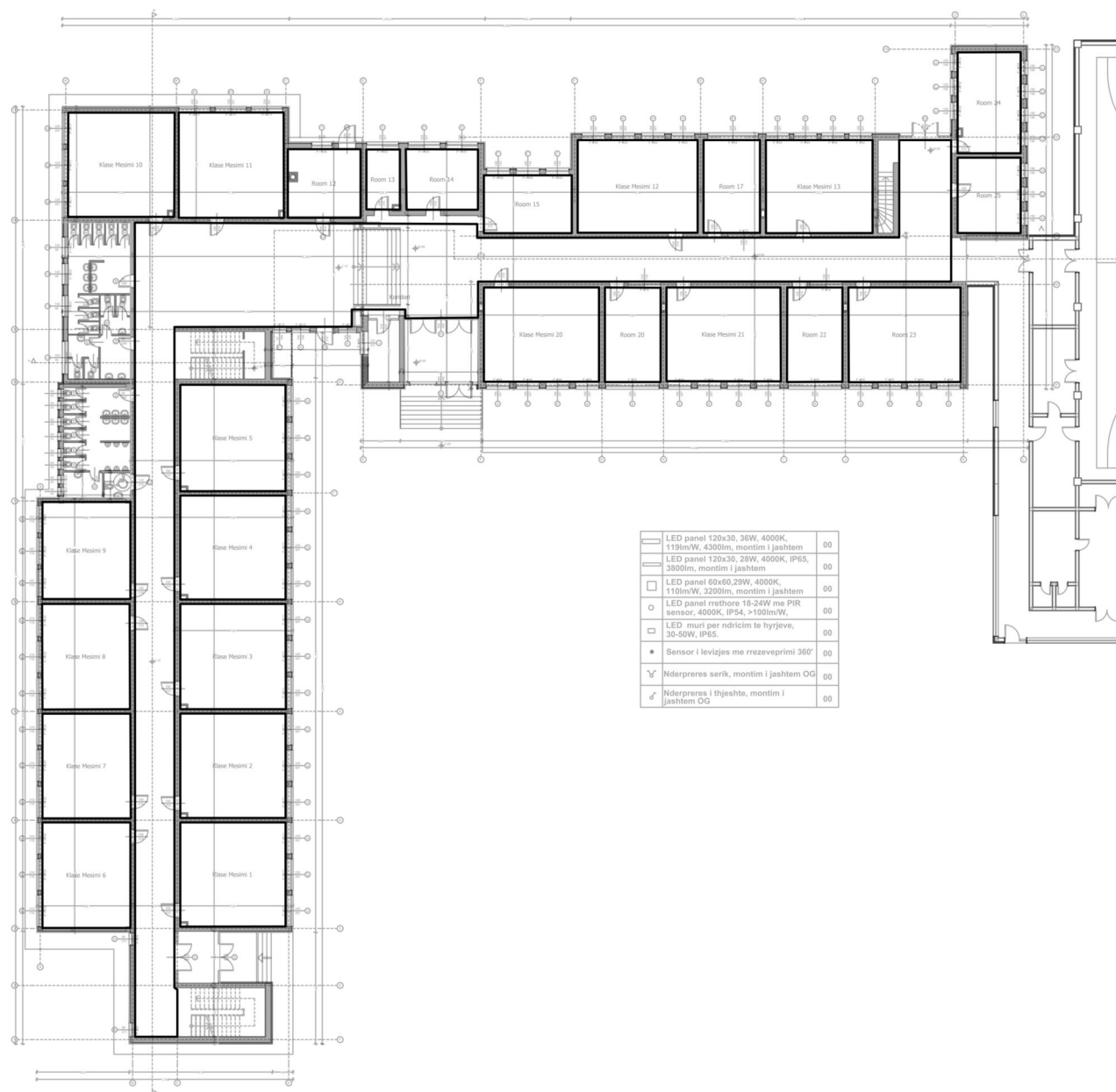
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
149	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 (Light scene 1)

## Room List



Building 1 · Story 1 (Light scene 1)

**Room List**

## Klase Mesimi 1

$P_{total}$ 186.0 W	$A_{Room}$ 50.98 m <sup>2</sup>	Lighting power density 3.65 W/m <sup>2</sup> = 1.01 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 361 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

## Klase Mesimi 2

$P_{total}$ 186.0 W	$A_{Room}$ 51.13 m <sup>2</sup>	Lighting power density 3.64 W/m <sup>2</sup> = 1.01 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 361 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

## Klase Mesimi 3

$P_{total}$ 186.0 W	$A_{Room}$ 51.59 m <sup>2</sup>	Lighting power density 3.61 W/m <sup>2</sup> = 1.01 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 356 lx
------------------------	------------------------------------	--	---

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

Klase Mesimi 4

$P_{total}$ 186.0 W	$A_{Room}$ 50.88 m <sup>2</sup>	Lighting power density 3.66 W/m <sup>2</sup> = 1.01 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 361 lx
------------------------	------------------------------------	--	---

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Klase Mesimi 5

$P_{total}$ 186.0 W	$A_{Room}$ 52.02 m <sup>2</sup>	Lighting power density 3.58 W/m <sup>2</sup> = 1.01 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 355 lx
------------------------	------------------------------------	--	---

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Klase Mesimi 6

$P_{total}$ 186.0 W	$A_{Room}$ 43.19 m <sup>2</sup>	Lighting power density 4.31 W/m <sup>2</sup> = 1.05 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 412 lx
------------------------	------------------------------------	--	---

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

Klase Mesimi 7

$P_{total}$ 186.0 W	$A_{Room}$ 42.94 m <sup>2</sup>	Lighting power density 4.33 W/m <sup>2</sup> = 1.05 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 413 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Klase Mesimi 8

$P_{total}$ 186.0 W	$A_{Room}$ 42.94 m <sup>2</sup>	Lighting power density 4.33 W/m <sup>2</sup> = 1.05 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 412 lx
------------------------	------------------------------------	--	---

pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Klase Mesimi 9

$P_{total}$ 124.0 W	$A_{Room}$ 39.69 m <sup>2</sup>	Lighting power density 3.12 W/m <sup>2</sup> = 1.04 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 301 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
4	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

Klase Mesimi 10

$P_{\text{total}}$ 186.0 W	$A_{\text{Room}}$ 51.53 m <sup>2</sup>	Lighting power density 3.61 W/m <sup>2</sup> = 1.01 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 357 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Klase Mesimi 11

$P_{\text{total}}$ 186.0 W	$A_{\text{Room}}$ 51.42 m <sup>2</sup>	Lighting power density 3.62 W/m <sup>2</sup> = 1.01 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 358 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Klase Mesimi 12

$P_{\text{total}}$ 186.0 W	$A_{\text{Room}}$ 51.68 m <sup>2</sup>	Lighting power density 3.60 W/m <sup>2</sup> = 1.01 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 356 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

Klase Mesimi 13

$P_{\text{total}}$ 186.0 W	$A_{\text{Room}}$ 46.14 m <sup>2</sup>	Lighting power density 4.03 W/m <sup>2</sup> = 1.03 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 390 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Klase Mesimi 20

$P_{\text{total}}$ 186.0 W	$A_{\text{Room}}$ 50.45 m <sup>2</sup>	Lighting power density 3.69 W/m <sup>2</sup> = 1.01 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 363 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Klase Mesimi 21

$P_{\text{total}}$ 186.0 W	$A_{\text{Room}}$ 49.81 m <sup>2</sup>	Lighting power density 3.73 W/m <sup>2</sup> = 1.02 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 366 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

Koridori

<b>P<sub>total</sub></b> 961.0 W	<b>A<sub>Room</sub></b> 408.67 m <sup>2</sup>	<b>Lighting power density</b> 2.35 W/m <sup>2</sup> = 1.18 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 199 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
31	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Room 12

<b>P<sub>total</sub></b> 62.0 W	<b>A<sub>Room</sub></b> 23.19 m <sup>2</sup>	<b>Lighting power density</b> 2.67 W/m <sup>2</sup> = 1.31 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 204 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
2	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Room 13

<b>P<sub>total</sub></b> 31.0 W	<b>A<sub>Room</sub></b> 9.36 m <sup>2</sup>	<b>Lighting power density</b> 3.31 W/m <sup>2</sup> = 1.87 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 177 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
1	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm



Building 1 · Story 1 (Light scene 1)

**Room List**

## Room 14

<b>P<sub>total</sub></b> 93.0 W	<b>A<sub>Room</sub></b> 20.17 m <sup>2</sup>	<b>Lighting power density</b> 4.61 W/m <sup>2</sup> = 1.42 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 324 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

## Room 15

<b>P<sub>total</sub></b> 93.0 W	<b>A<sub>Room</sub></b> 23.68 m <sup>2</sup>	<b>Lighting power density</b> 3.93 W/m <sup>2</sup> = 1.37 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 287 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

## Room 17

<b>P<sub>total</sub></b> 93.0 W	<b>A<sub>Room</sub></b> 24.36 m <sup>2</sup>	<b>Lighting power density</b> 3.82 W/m <sup>2</sup> = 1.37 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 279 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

## Room 20

<b>P<sub>total</sub></b> 93.0 W	<b>A<sub>Room</sub></b> 24.46 m <sup>2</sup>	<b>Lighting power density</b> 3.80 W/m <sup>2</sup> = 1.37 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 278 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

## Room 22

<b>P<sub>total</sub></b> 93.0 W	<b>A<sub>Room</sub></b> 24.32 m <sup>2</sup>	<b>Lighting power density</b> 3.82 W/m <sup>2</sup> = 1.37 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 279 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

## Room 23

<b>P<sub>total</sub></b> 186.0 W	<b>A<sub>Room</sub></b> 49.28 m <sup>2</sup>	<b>Lighting power density</b> 3.77 W/m <sup>2</sup> = 1.02 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 370 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

## Room 24

<b>P<sub>total</sub></b> 93.0 W	<b>A<sub>Room</sub></b> 29.61 m <sup>2</sup>	<b>Lighting power density</b> 3.14 W/m <sup>2</sup> = 1.07 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 294 lx
------------------------------------	---	---	--

pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

## Room 25

<b>P<sub>total</sub></b> 93.0 W	<b>A<sub>Room</sub></b> 22.11 m <sup>2</sup>	<b>Lighting power density</b> 4.21 W/m <sup>2</sup> = 1.13 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 372 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm

Building 1 · Story 1

**Luminaire list** $\Phi_{\text{total}}$ 

648001 lm

 $P_{\text{total}}$ 

4619.0 W

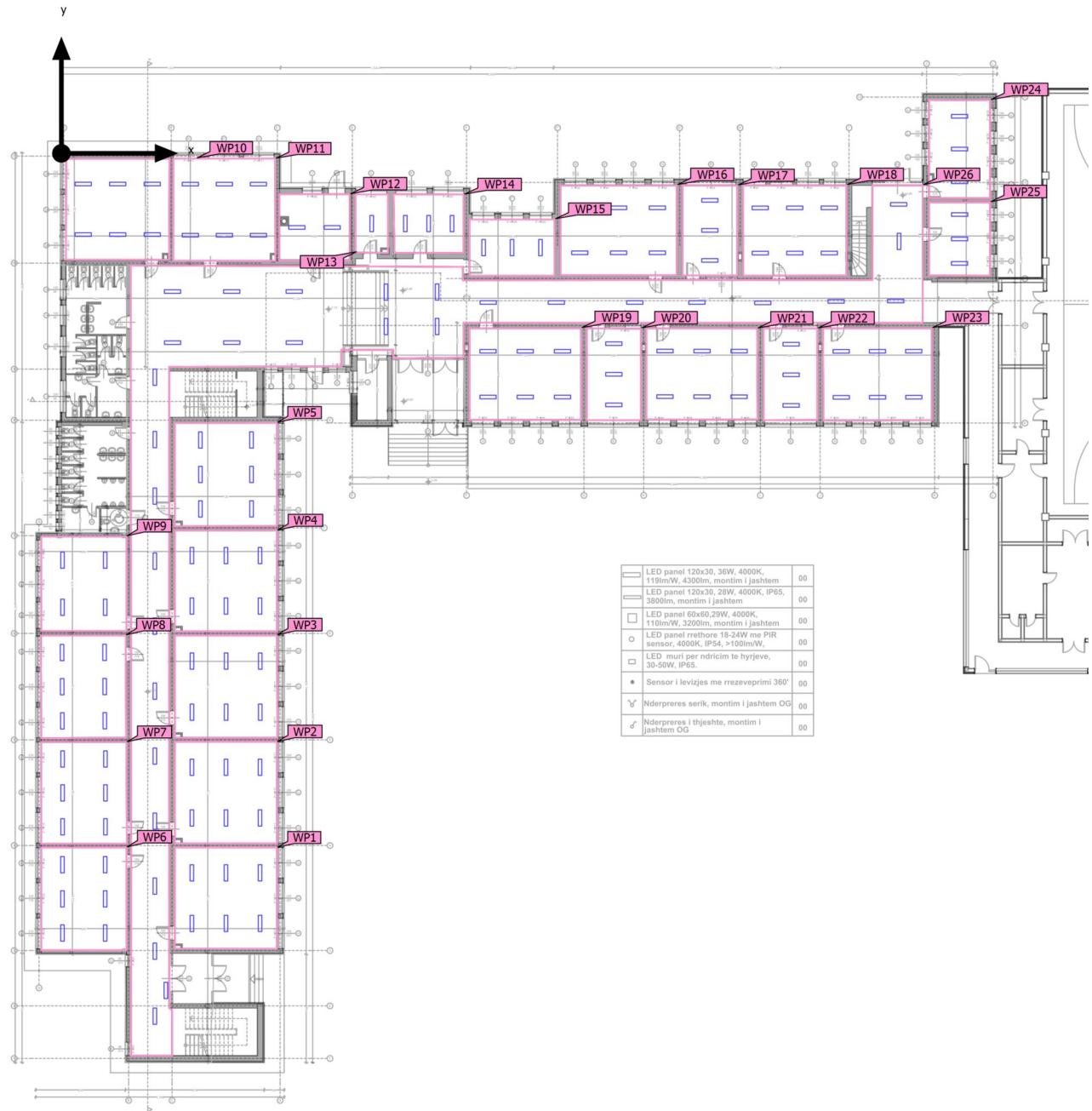
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
149	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 (Light scene 1)

## Calculation objects



Building 1 · Story 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	361 lx ( $\geq 300$ lx) ✓	159 lx	541 lx	0.44 ( $\geq 0.40$ ) ✓	0.29	WP1
Working plane (Klase Mesimi 2) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	361 lx ( $\geq 300$ lx) ✓	157 lx	541 lx	0.43 ( $\geq 0.40$ ) ✓	0.29	WP2
Working plane (Klase Mesimi 3) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	356 lx ( $\geq 300$ lx) ✓	157 lx	540 lx	0.44 ( $\geq 0.40$ ) ✓	0.29	WP3
Working plane (Klase Mesimi 4) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	361 lx ( $\geq 300$ lx) ✓	161 lx	542 lx	0.45 ( $\geq 0.40$ ) ✓	0.30	WP4
Working plane (Klase Mesimi 5) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	355 lx ( $\geq 300$ lx) ✓	151 lx	548 lx	0.43 ( $\geq 0.40$ ) ✓	0.28	WP5
Working plane (Klase Mesimi 6) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	412 lx ( $\geq 300$ lx) ✓	204 lx	575 lx	0.50 ( $\geq 0.40$ ) ✓	0.35	WP6
Working plane (Klase Mesimi 7) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	413 lx ( $\geq 300$ lx) ✓	203 lx	576 lx	0.49 ( $\geq 0.40$ ) ✓	0.35	WP7
Working plane (Klase Mesimi 8) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	412 lx ( $\geq 300$ lx) ✓	205 lx	573 lx	0.50 ( $\geq 0.40$ ) ✓	0.36	WP8
Working plane (Klase Mesimi 9) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	301 lx ( $\geq 300$ lx) ✓	141 lx	467 lx	0.47 ( $\geq 0.40$ ) ✓	0.30	WP9
Working plane (Klase Mesimi 10) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	357 lx ( $\geq 300$ lx) ✓	155 lx	547 lx	0.43 ( $\geq 0.40$ ) ✓	0.28	WP10
Working plane (Klase Mesimi 11) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	358 lx ( $\geq 0.50$ lx) ✓	154 lx	554 lx	0.43 ( $\geq 0.40$ ) ✓	0.28	WP11

## Building 1 · Story 1 (Light scene 1)

## Calculation objects

Working plane (Room 12) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	204 lx (≥ 100 lx) ✓	108 lx	300 lx	0.53 (≥ 0.40) ✓	0.36	WP12
Working plane (Room 13) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	177 lx (≥ 100 lx) ✓	118 lx	241 lx	0.67 (≥ 0.20) ✓	0.49	WP13
Working plane (Room 14) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	324 lx (≥ 200 lx) ✓	187 lx	455 lx	0.58 (≥ 0.40) ✓	0.41	WP14
Working plane (Room 15) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	287 lx (≥ 100 lx) ✓	168 lx	394 lx	0.59 (≥ 0.40) ✓	0.43	WP15
Working plane (Klase Mesimi 12) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	356 lx (≥ 300 lx) ✓	165 lx	522 lx	0.46 (≥ 0.40) ✓	0.32	WP16
Working plane (Room 17) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	279 lx (≥ 100 lx) ✓	164 lx	379 lx	0.59 (≥ 0.40) ✓	0.43	WP17
Working plane (Klase Mesimi 13) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	390 lx (≥ 300 lx) ✓	185 lx	558 lx	0.47 (≥ 0.40) ✓	0.33	WP18
Working plane (Klase Mesimi 20) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	363 lx (≥ 300 lx) ✓	159 lx	542 lx	0.44 (≥ 0.40) ✓	0.29	WP19
Working plane (Room 20) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	278 lx (≥ 200 lx) ✓	165 lx	378 lx	0.59 (≥ 0.40) ✓	0.44	WP20
Working plane (Klase Mesimi 21) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	366 lx (≥ 300 lx) ✓	163 lx	545 lx	0.45 (≥ 0.40) ✓	0.30	WP21
Working plane (Room 22) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	279 lx (≥ 200 lx) ✓	161 lx	376 lx	0.58 (≥ 0.40) ✓	0.43	WP22
Working plane (Room 23) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	370 lx (≥ 300 lx) ✓	167 lx	548 lx	0.45 (≥ 0.40) ✓	0.30	WP23

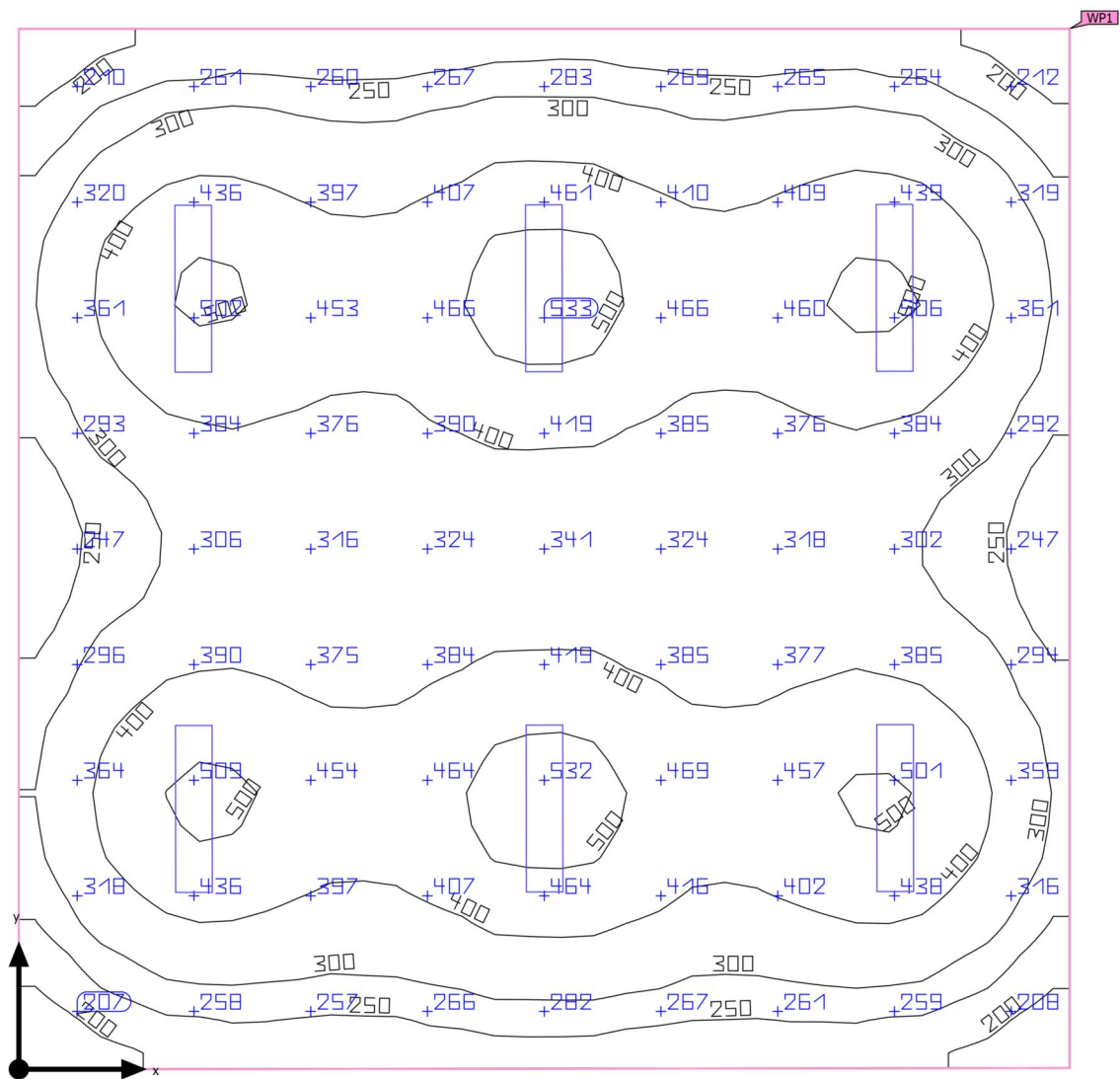
## Building 1 · Story 1 (Light scene 1)

## Calculation objects

Working plane (Room 24) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	294 lx ( $\geq 200$ lx) ✓	120 lx	500 lx	0.41 ( $\geq 0.40$ ) ✓	0.24	WP24
Working plane (Room 25) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	372 lx ( $\geq 200$ lx) ✓	159 lx	620 lx	0.43 ( $\geq 0.40$ ) ✓	0.26	WP25
Working plane (Koridori) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	199 lx ( $\geq 100$ lx) ✓	59.8 lx	384 lx	0.30 ( $\geq 0.20$ ) ✓	0.16	WP26



Building 1 · Story 1 · Klase Mesimi 1 (Light scene 1)

**Summary**

Ground area	50.98 m <sup>2</sup>
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Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
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Light loss factor	0.80 (fixed)
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Clearance height	2.800 m
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Mounting height	2.800 m
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Height <sub>Working plane</sub>	0.800 m
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Wall zone <sub>Working plane</sub>	0.000 m
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Building 1 · Story 1 · Klase Mesimi 1 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	361 lx	$\geq 300$ lx	✓	WP1
	$g_1$	0.44	$\geq 0.40$	✓	WP1
Glare valuation <sup>(1)</sup>	$R_{UG, \max}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1800 kWh/a	✓	
Room	Lighting power density	3.65 W/m <sup>2</sup>	–		
		1.01 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 7.107 m x 7.178 m and SHR of 0.25.

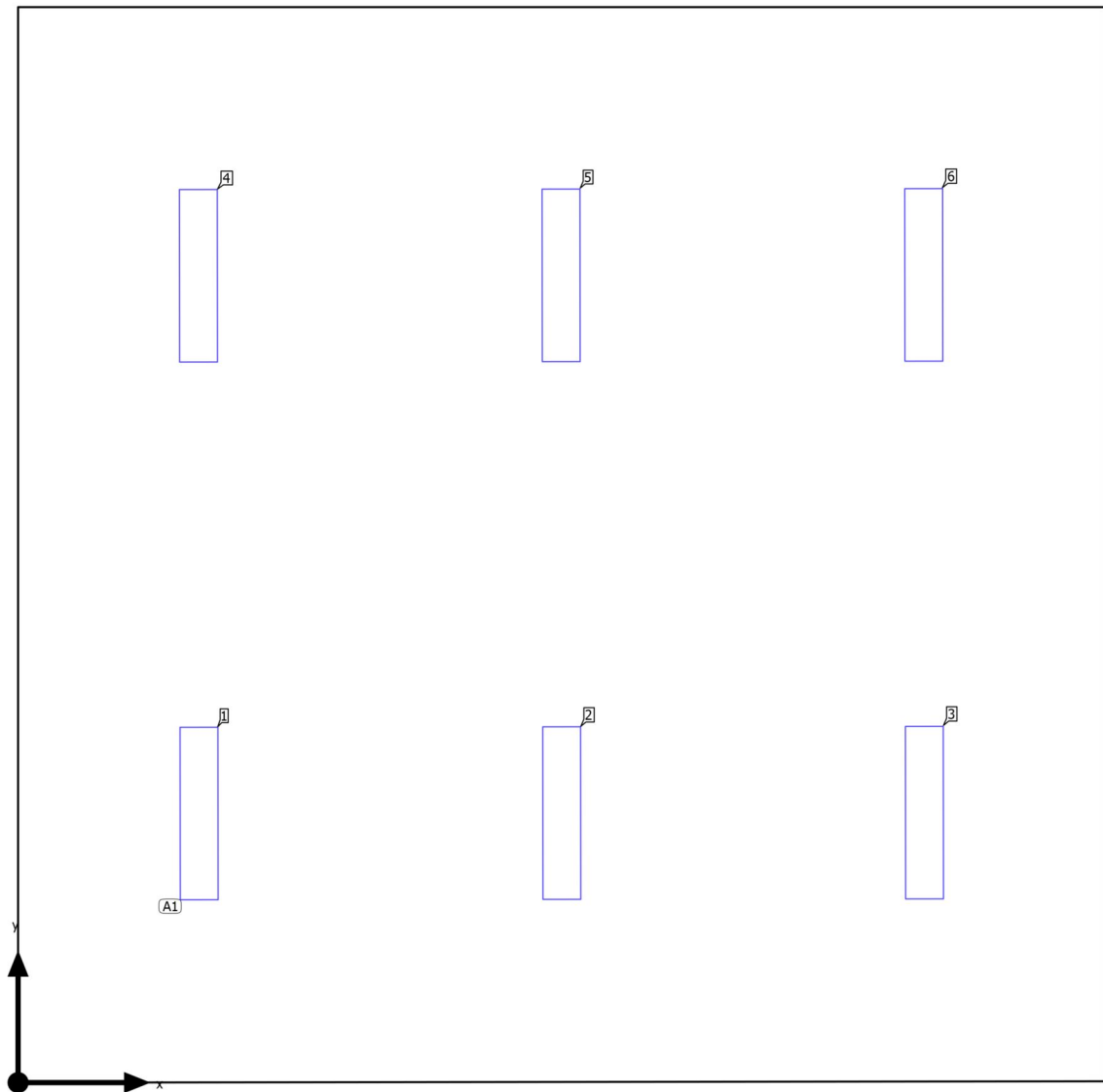
(2) Calculated using DIN:18599-4.

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

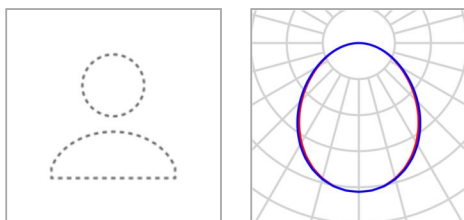
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 1

**Luminaire layout plan**

Building 1 · Story 1 · Klase Mesimi 1

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.196 m / 1.778 m / 2.800 m	1.196 m	1.778 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.396 m	3.591 m	1.781 m	2.800 m	2
		5.987 m	1.784 m	2.800 m	3
Y-direction	2 pcs., Center - center, 3.553 m	1.191 m	5.332 m	2.800 m	4
		3.587 m	5.334 m	2.800 m	5
Arrangement	A1	5.982 m	5.337 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 1

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

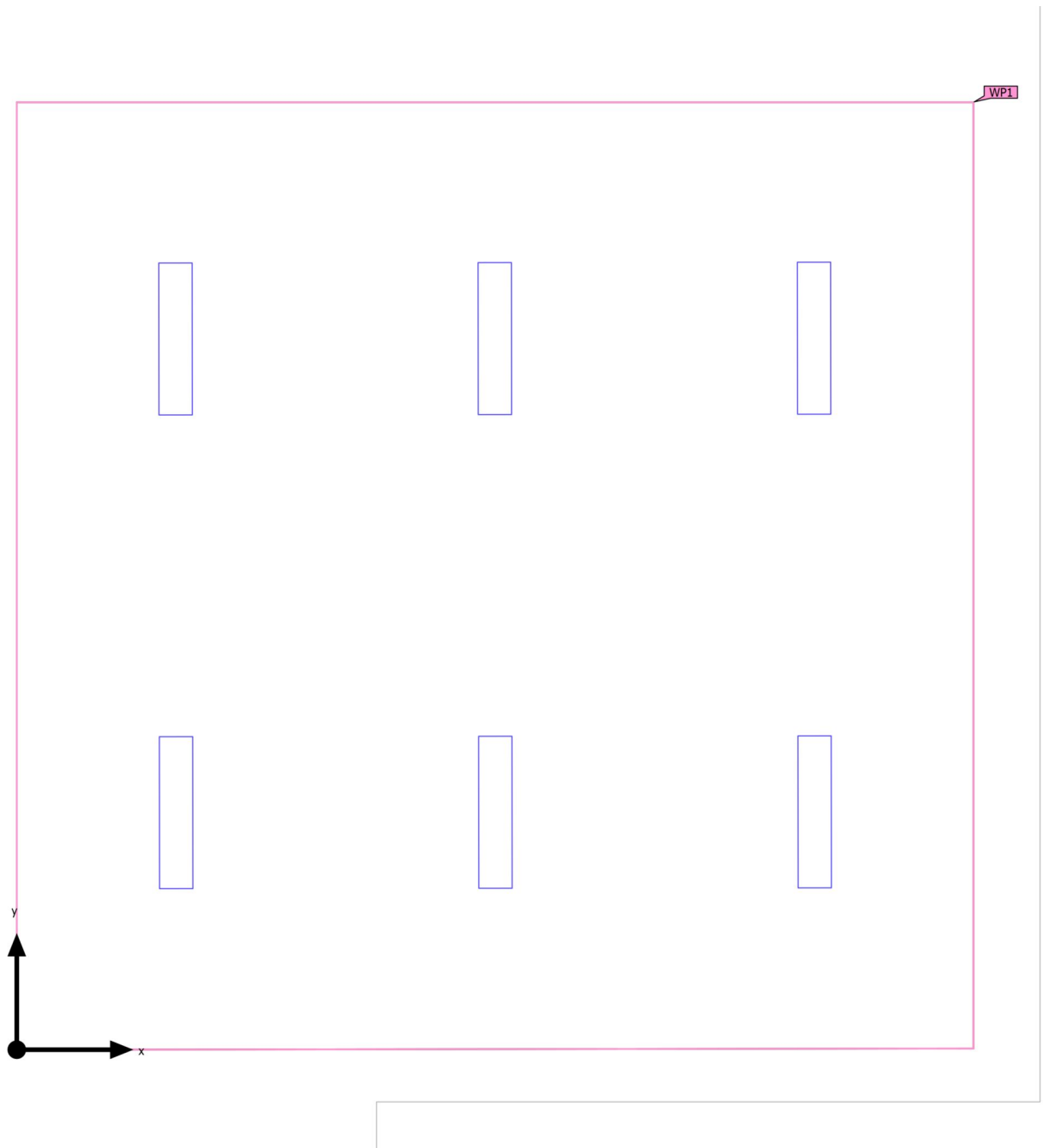
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 1 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 1 (Light scene 1)

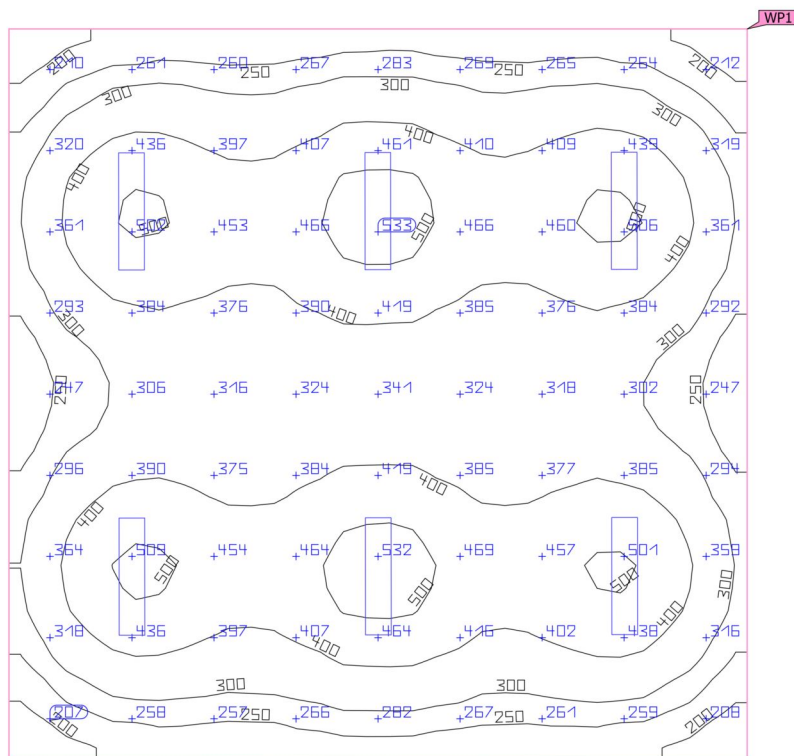
**Calculation objects**

## 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	361 lx ( $\geq 300$ lx) ✓	159 lx	541 lx	0.44 ( $\geq 0.40$ ) ✓	0.29	WP1

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

Building 1 · Story 1 · Klase Mesimi 1 (Light scene 1)

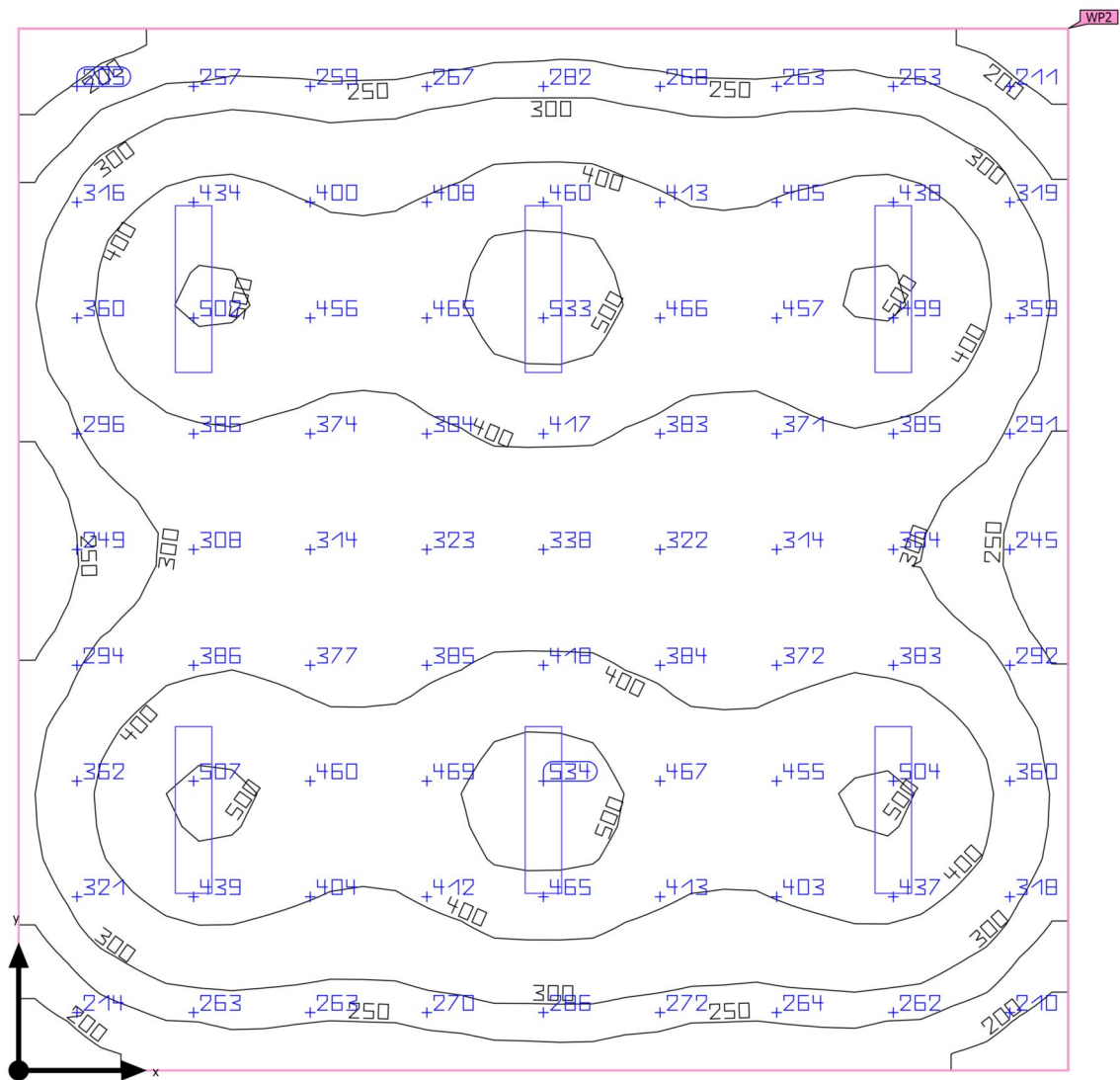
**Working plane (Klase Mesimi 1)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 1)	361 lx	159 lx	541 lx	0.44	0.29	WP1
Perpendicular illuminance (adaptive)	( $\geq 300$ lx)			( $\geq 0.40$ )		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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



Building 1 · Story 1 · Klase Mesimi 2 (Light scene 1)

**Summary**

Ground area	51.13 m <sup>2</sup>
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Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
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Light loss factor	0.80 (fixed)
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Clearance height	2.800 m
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Mounting height	2.800 m
-----------------	---------

Height <sub>Working plane</sub>	0.800 m
---------------------------------	---------

Wall zone <sub>Working plane</sub>	0.000 m
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Building 1 · Story 1 · Klase Mesimi 2 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	361 lx	$\geq 300$ lx	✓	WP2
	$g_1$	0.43	$\geq 0.40$	✓	WP2
Glare valuation <sup>(1)</sup>	$R_{UG, \max}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1800 kWh/a	✓	
Room	Lighting power density	3.64 W/m <sup>2</sup>	–		
		1.01 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 7.178 m x 7.123 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

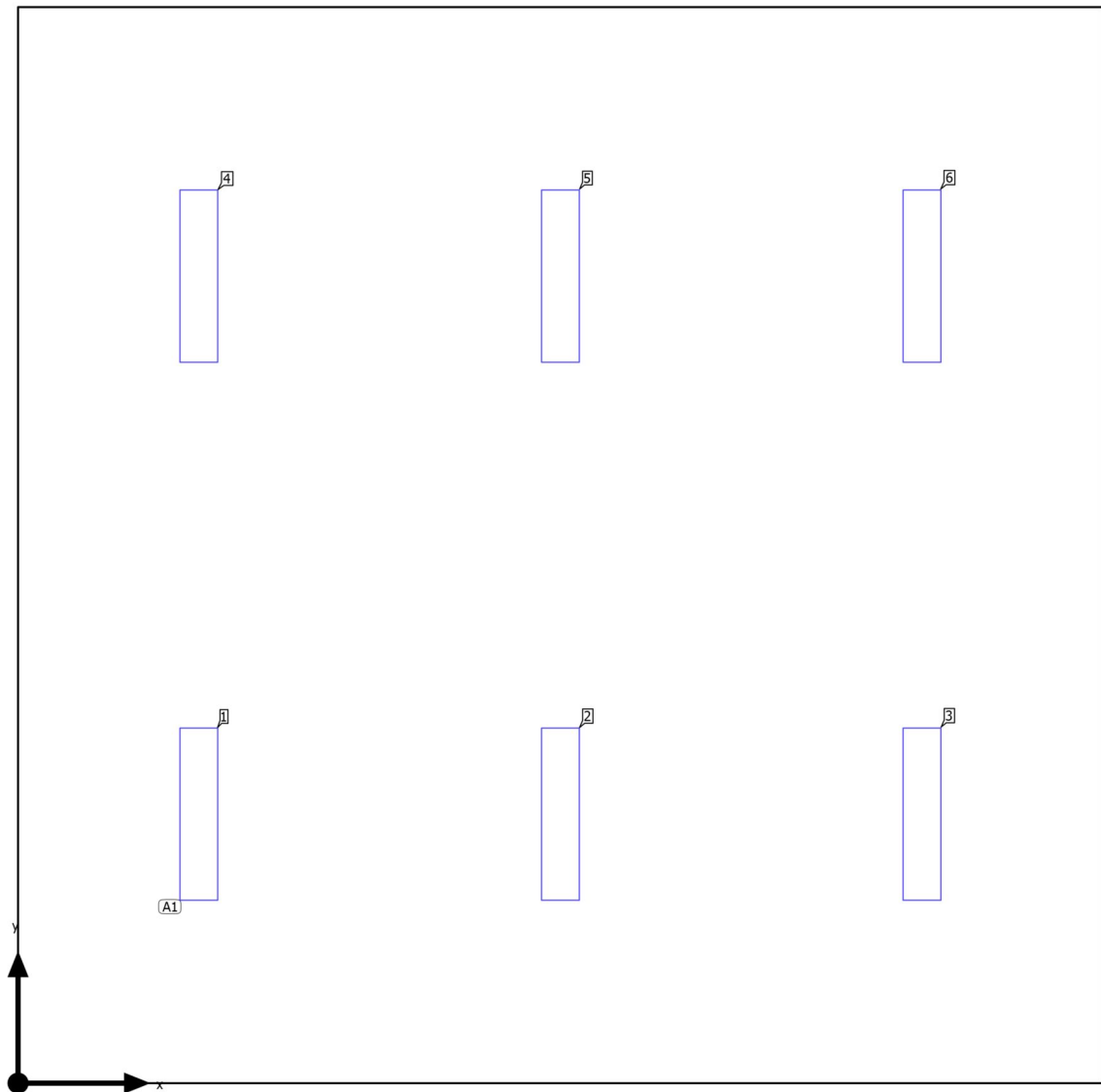
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

### Luminaire list

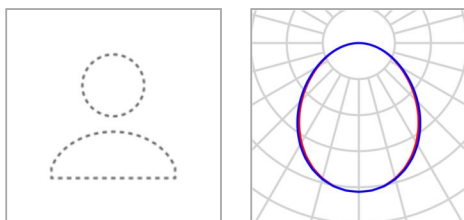
pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 2

## Luminaire layout plan



Building 1 · Story 1 · Klase Mesimi 2

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.196 m / 1.781 m / 2.800 m	1.196 m	1.781 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.393 m	3.589 m	1.781 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.562 m	5.982 m	1.781 m	2.800 m	3
Arrangement	A1	1.196 m	5.343 m	2.800 m	4
		3.589 m	5.343 m	2.800 m	5
		5.982 m	5.343 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 2

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

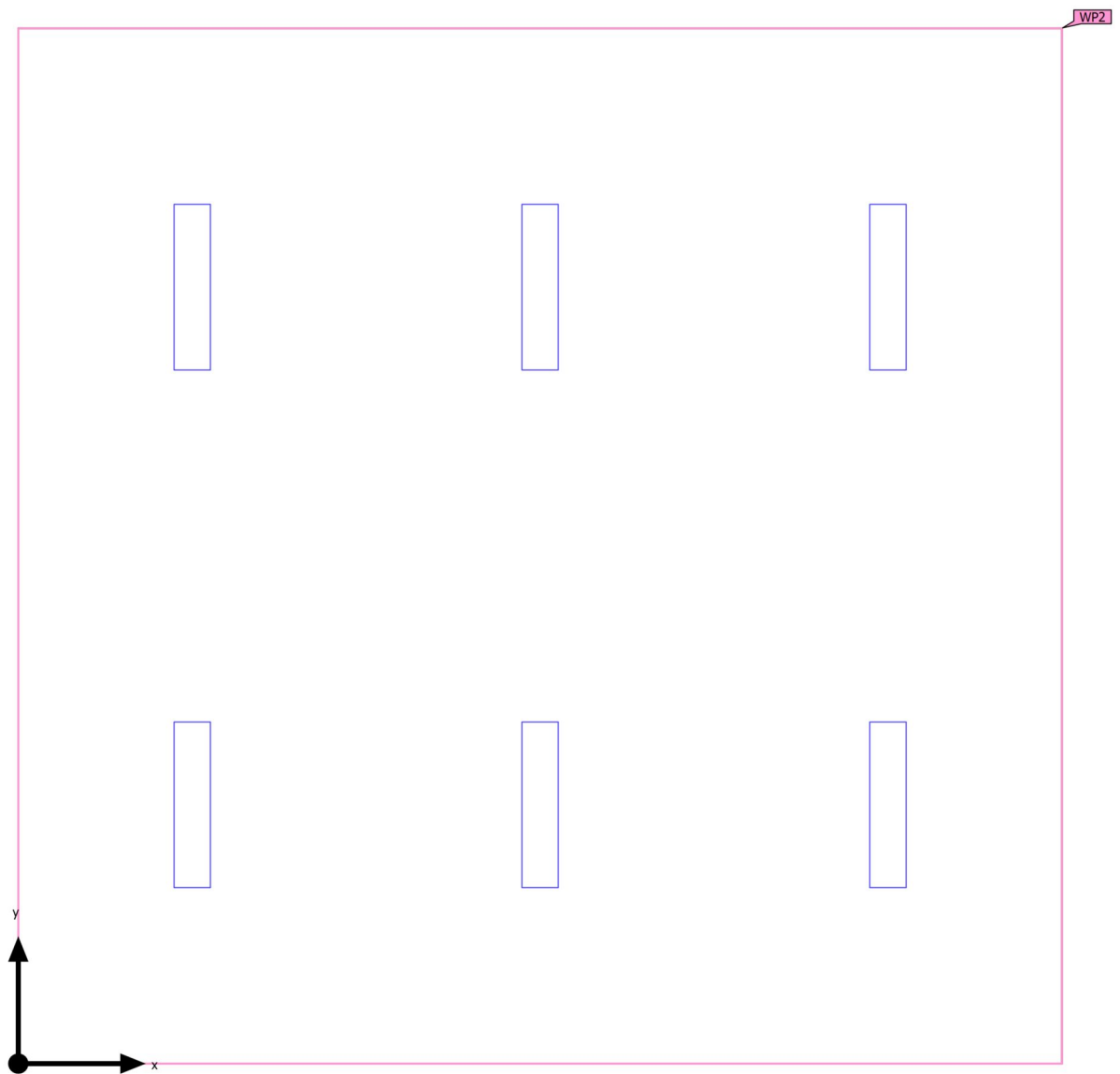
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 2 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 2 (Light scene 1)

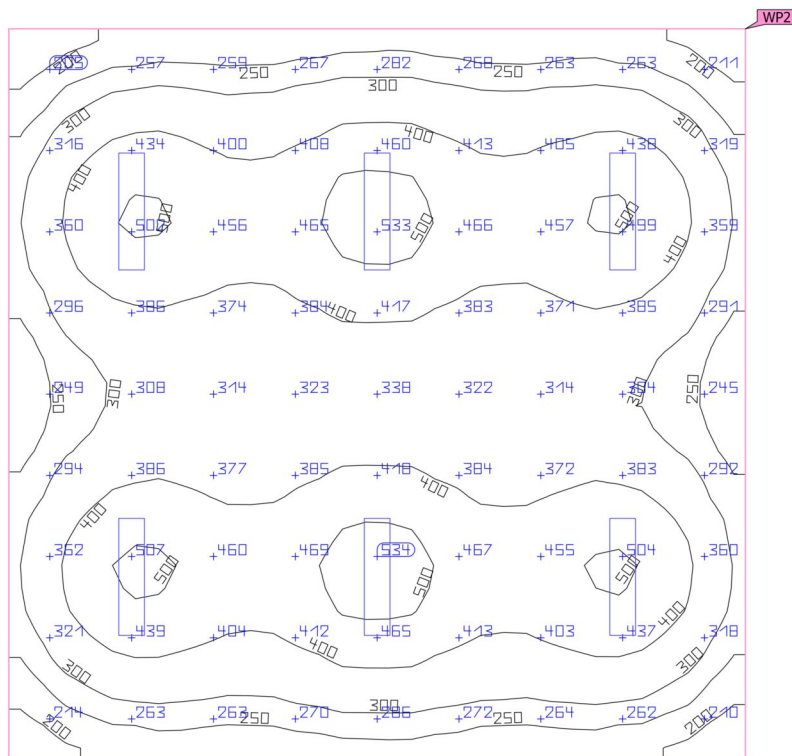
**Calculation objects**

## 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	361 lx ( $\geq 300$ lx) ✓	157 lx	541 lx	0.43 ( $\geq 0.40$ ) ✓	0.29	WP2

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

Building 1 · Story 1 · Klase Mesimi 2 (Light scene 1)

**Working plane (Klase Mesimi 2)**

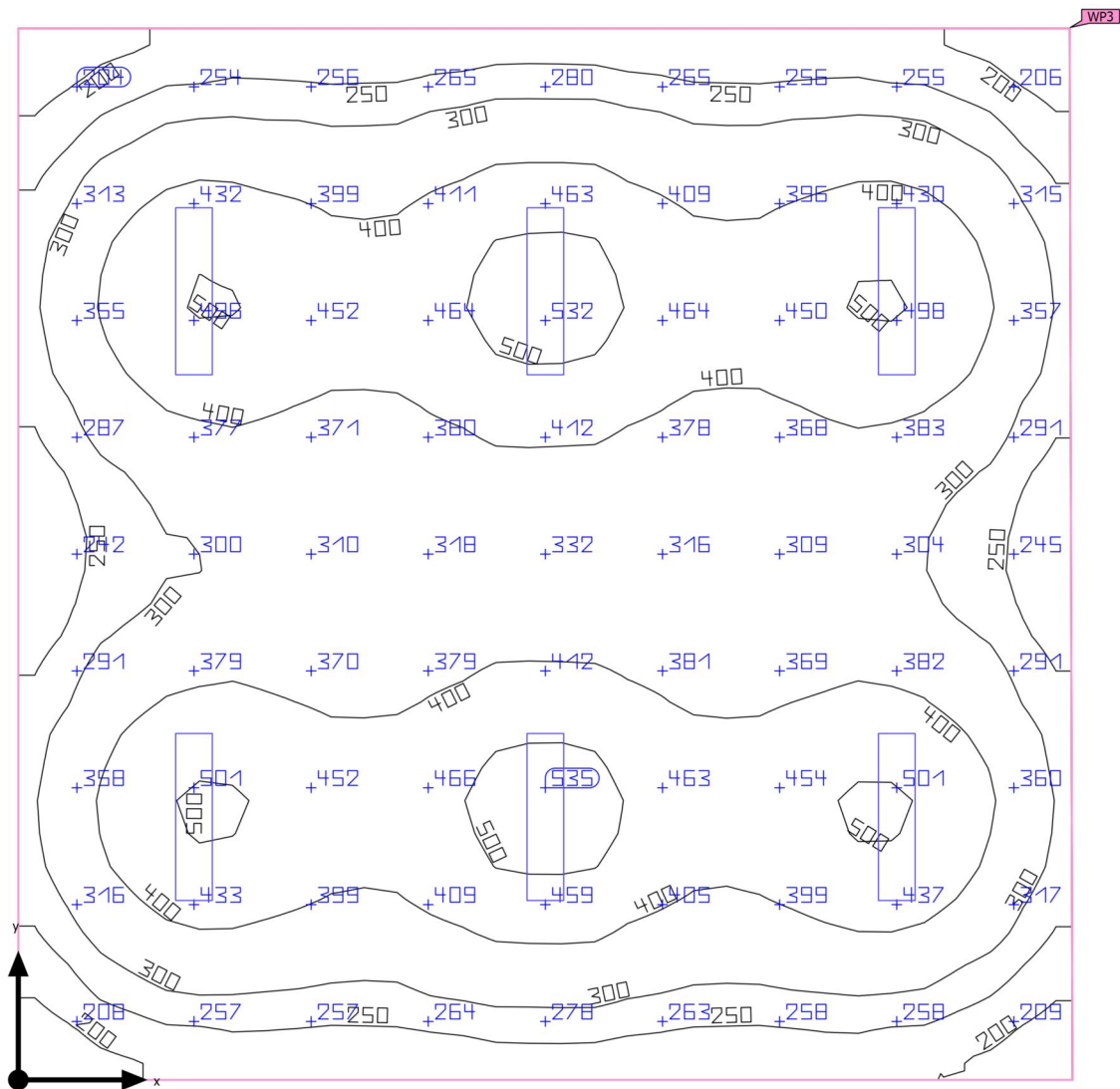
Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 2)	361 lx	157 lx	541 lx	0.43	0.29	WP2
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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



Building 1 · Story 1 · Klase Mesimi 3 (Light scene 1)

## Summary



Ground area	51.59 m <sup>2</sup>
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Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
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Light loss factor	0.80 (fixed)
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Clearance height	2.800 m
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Mounting height	2.800 m
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Height <sub>Working plane</sub>	0.800 m
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Wall zone <sub>Working plane</sub>	0.000 m
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Building 1 · Story 1 · Klase Mesimi 3 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	356 lx	$\geq 300$ lx	✓	WP3
	$g_1$	0.44	$\geq 0.40$	✓	WP3
Glare valuation <sup>(1)</sup>	$R_{UG, \max}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1850 kWh/a	✓	
Room	Lighting power density	3.61 W/m <sup>2</sup>	–		
		1.01 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 7.197 m x 7.178 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

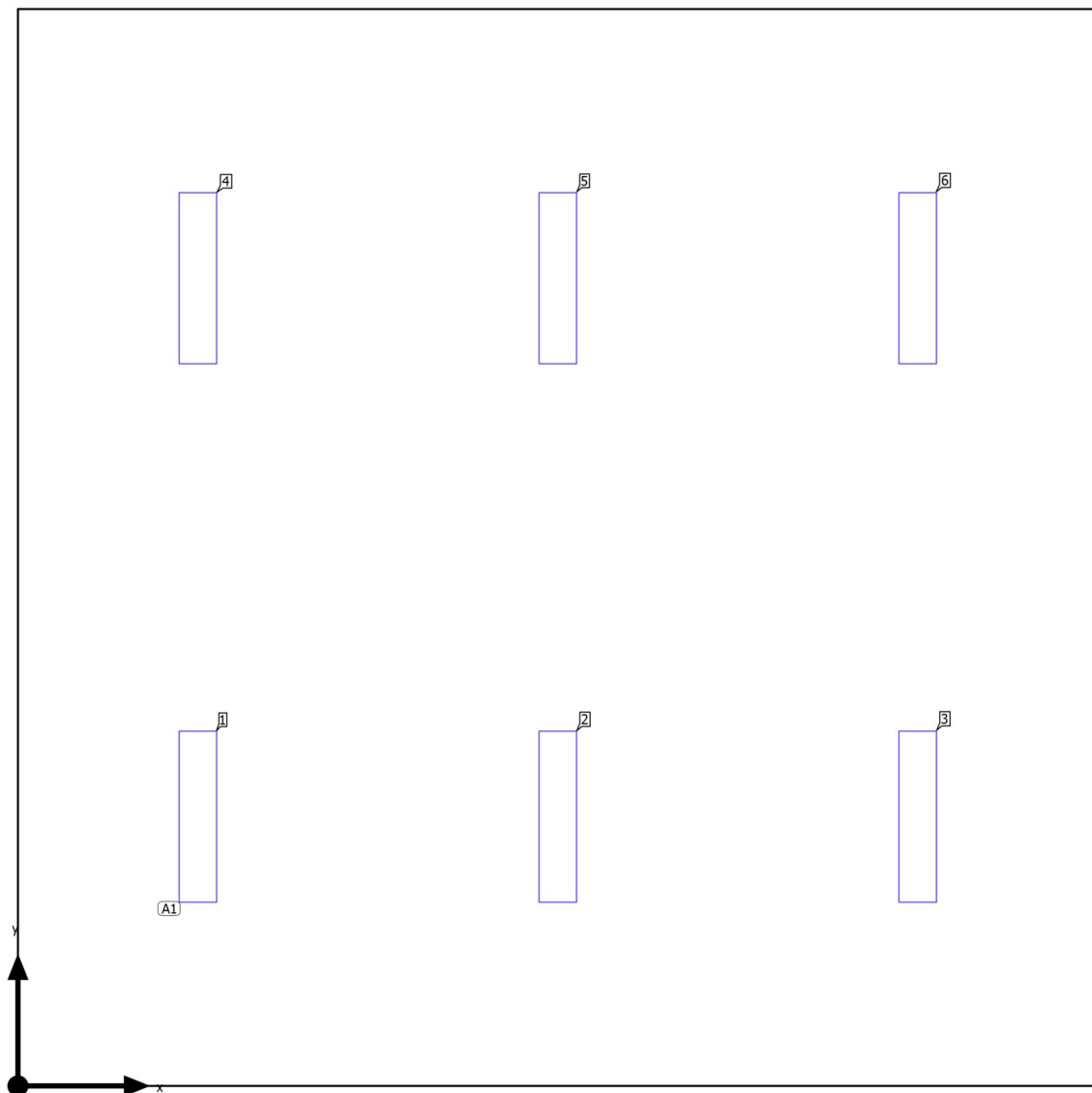
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

### Luminaire list

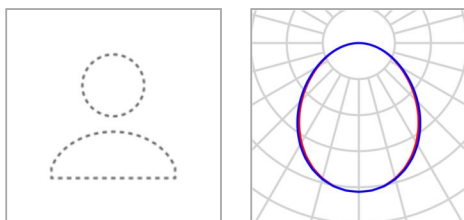
pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 3

## Luminaire layout plan



Building 1 · Story 1 · Klase Mesimi 3

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.200 m / 1.795 m / 2.800 m	1.200 m	1.795 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.399 m	3.599 m	1.795 m	2.800 m	2
		5.998 m	1.795 m	2.800 m	3
Y-direction	2 pcs., Center - center, 3.589 m	1.200 m	5.384 m	2.800 m	4
		3.599 m	5.384 m	2.800 m	5
Arrangement	A1	5.998 m	5.384 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 3

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

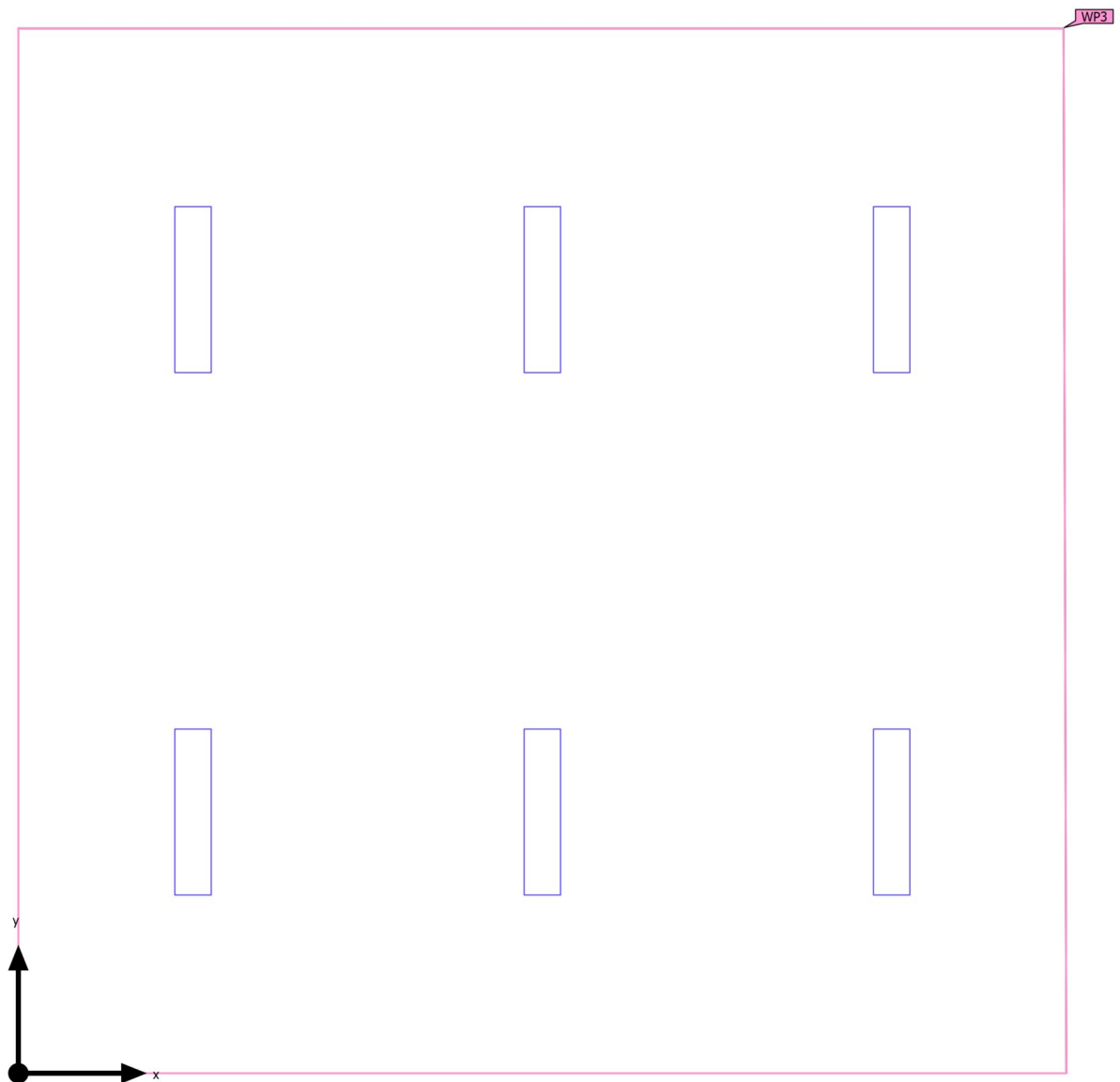
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 3 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 3 (Light scene 1)

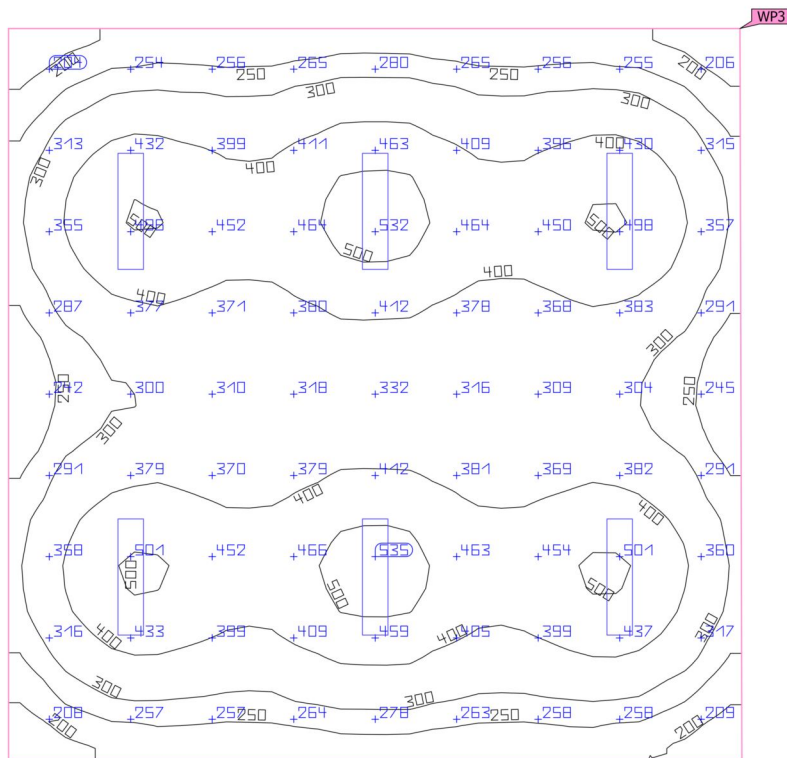
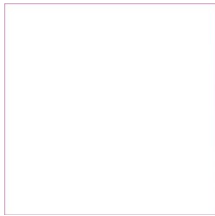
**Calculation objects**

## 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	356 lx ( $\geq 300$ lx) ✓	157 lx	540 lx	0.44 ( $\geq 0.40$ ) ✓	0.29	WP3

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

Building 1 · Story 1 · Klase Mesimi 3 (Light scene 1)

**Working plane (Klase Mesimi 3)**

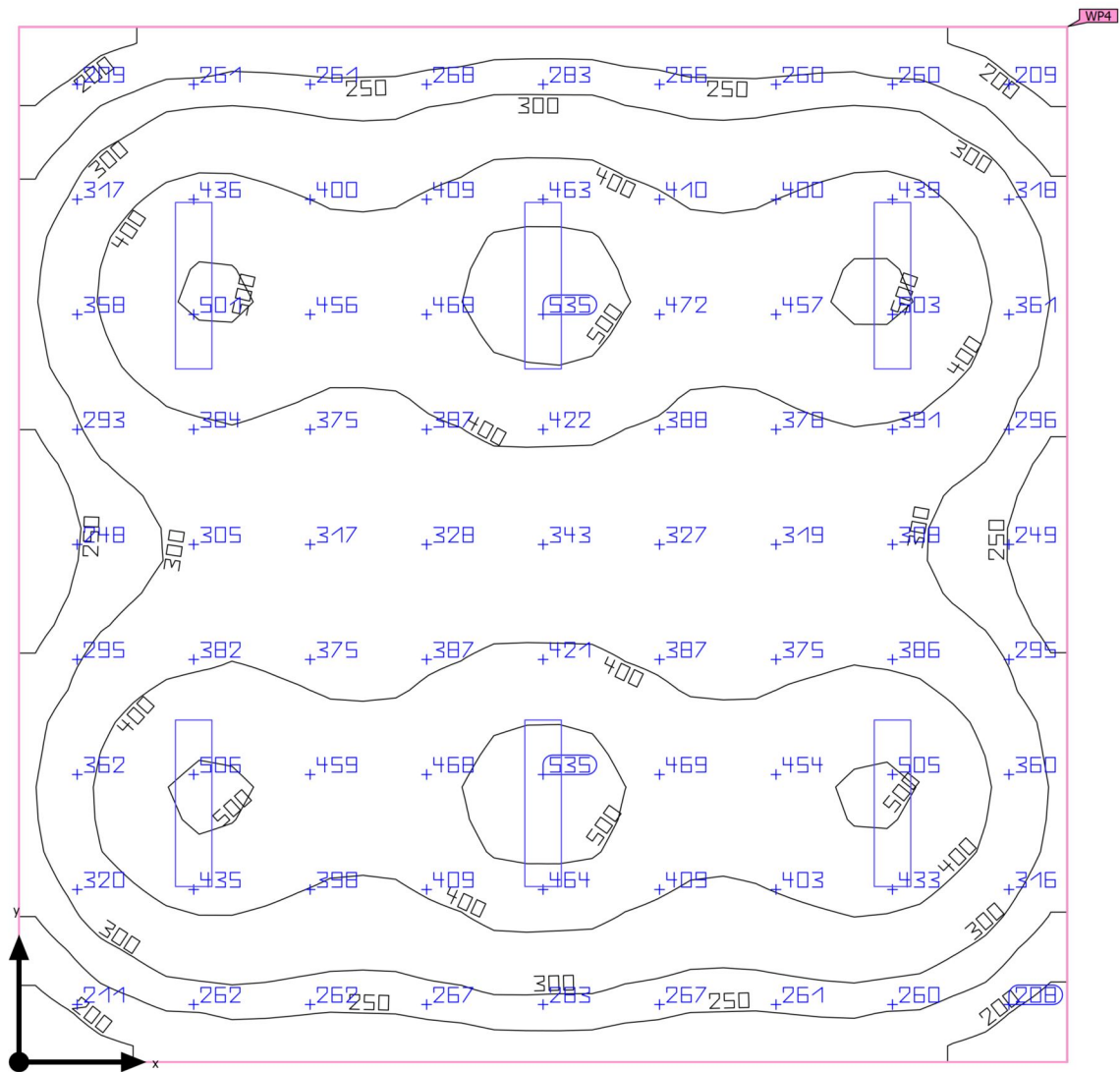
Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 3)	356 lx	157 lx	540 lx	0.44	0.29	WP3
Perpendicular illuminance (adaptive)	( $\geq 300$ lx)			( $\geq 0.40$ )		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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



Building 1 · Story 1 · Klase Mesimi 4 (Light scene 1)

## Summary



Ground area	50.88 m <sup>2</sup>	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height <sub>Working plane</sub>	0.800 m
		Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Klase Mesimi 4 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	361 lx	$\geq 300$ lx	✓	WP4
	$g_1$	0.45	$\geq 0.40$	✓	WP4
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1800 kWh/a	✓	
Room	Lighting power density	3.66 W/m <sup>2</sup>	–		
		1.01 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 7.178 m x 7.088 m and SHR of 0.25.

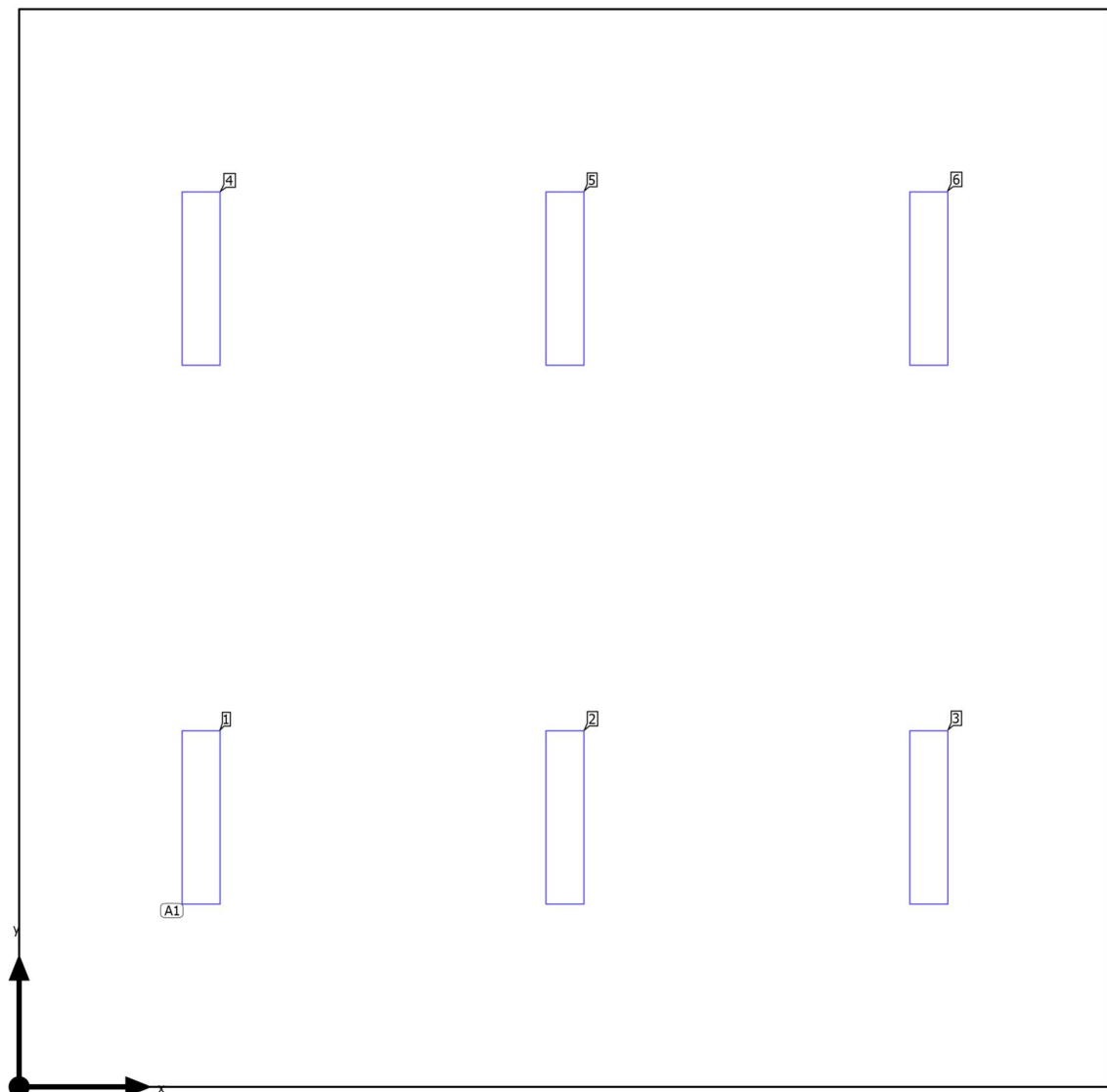
(2) Calculated using DIN:18599-4.

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

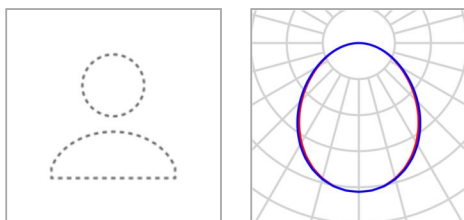
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 4

**Luminaire layout plan**

Building 1 · Story 1 · Klase Mesimi 4

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.196 m / 1.772 m / 2.800 m	1.196 m	1.772 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.393 m	3.589 m	1.772 m	2.800 m	2
		5.982 m	1.772 m	2.800 m	3
Y-direction	2 pcs., Center - center, 3.544 m	1.196 m	5.316 m	2.800 m	4
		3.589 m	5.316 m	2.800 m	5
Arrangement	A1	5.982 m	5.316 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 4

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

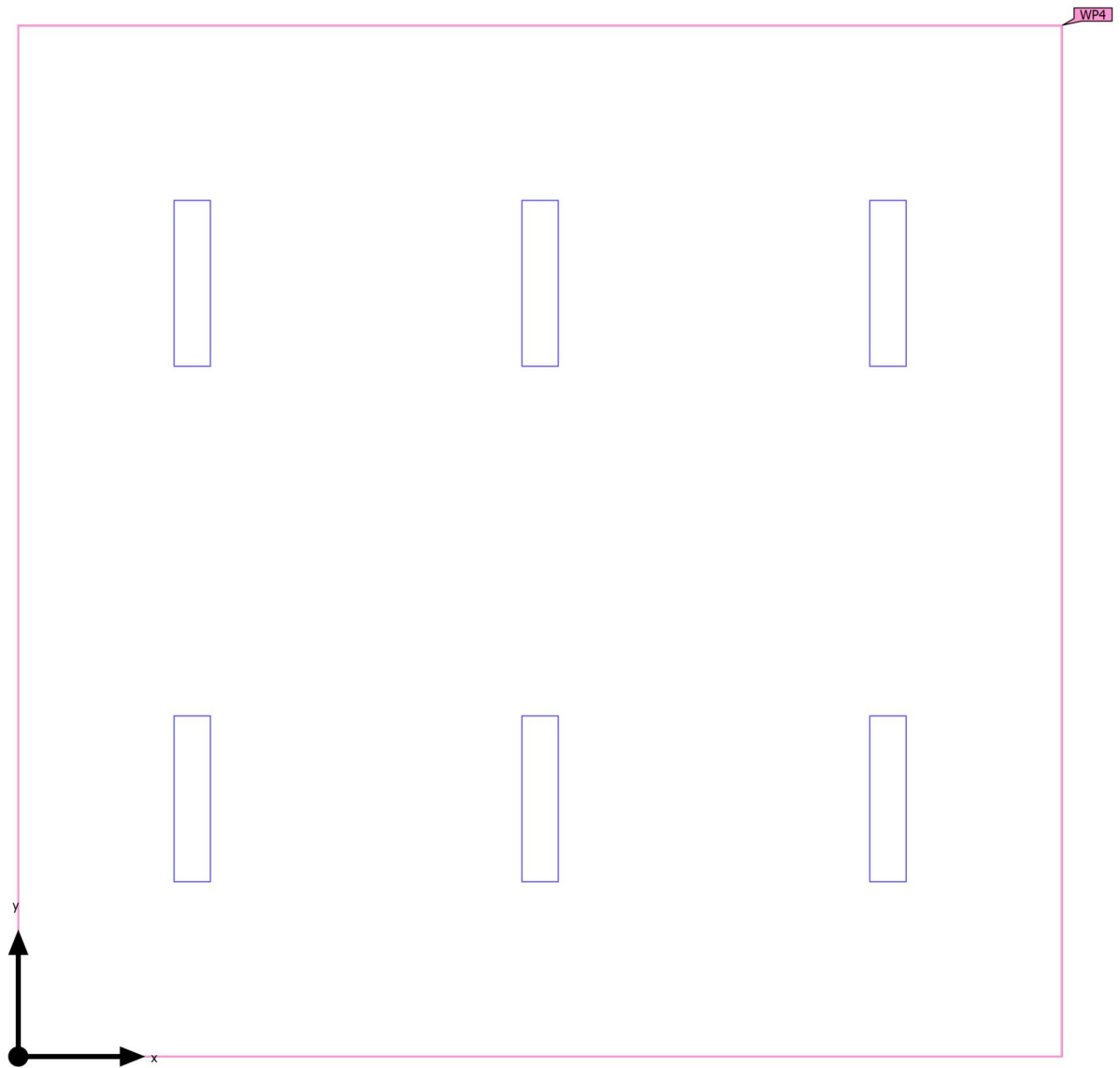
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 4 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 4 (Light scene 1)

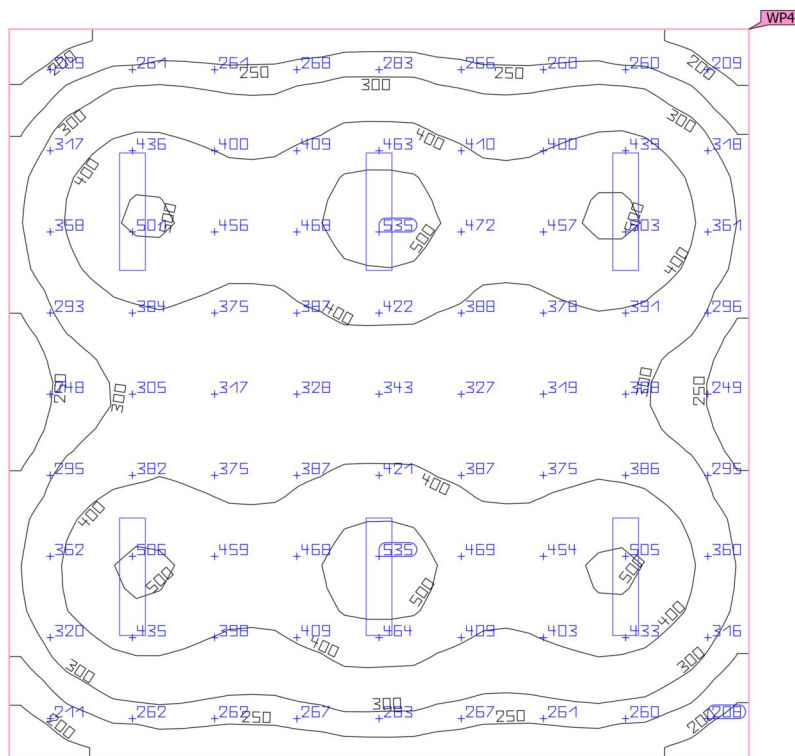
**Calculation objects**

## 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	361 lx ( $\geq 300$ lx) ✓	161 lx	542 lx	0.45 ( $\geq 0.40$ ) ✓	0.30	WP4

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

Building 1 · Story 1 · Klase Mesimi 4 (Light scene 1)

**Working plane (Klase Mesimi 4)**

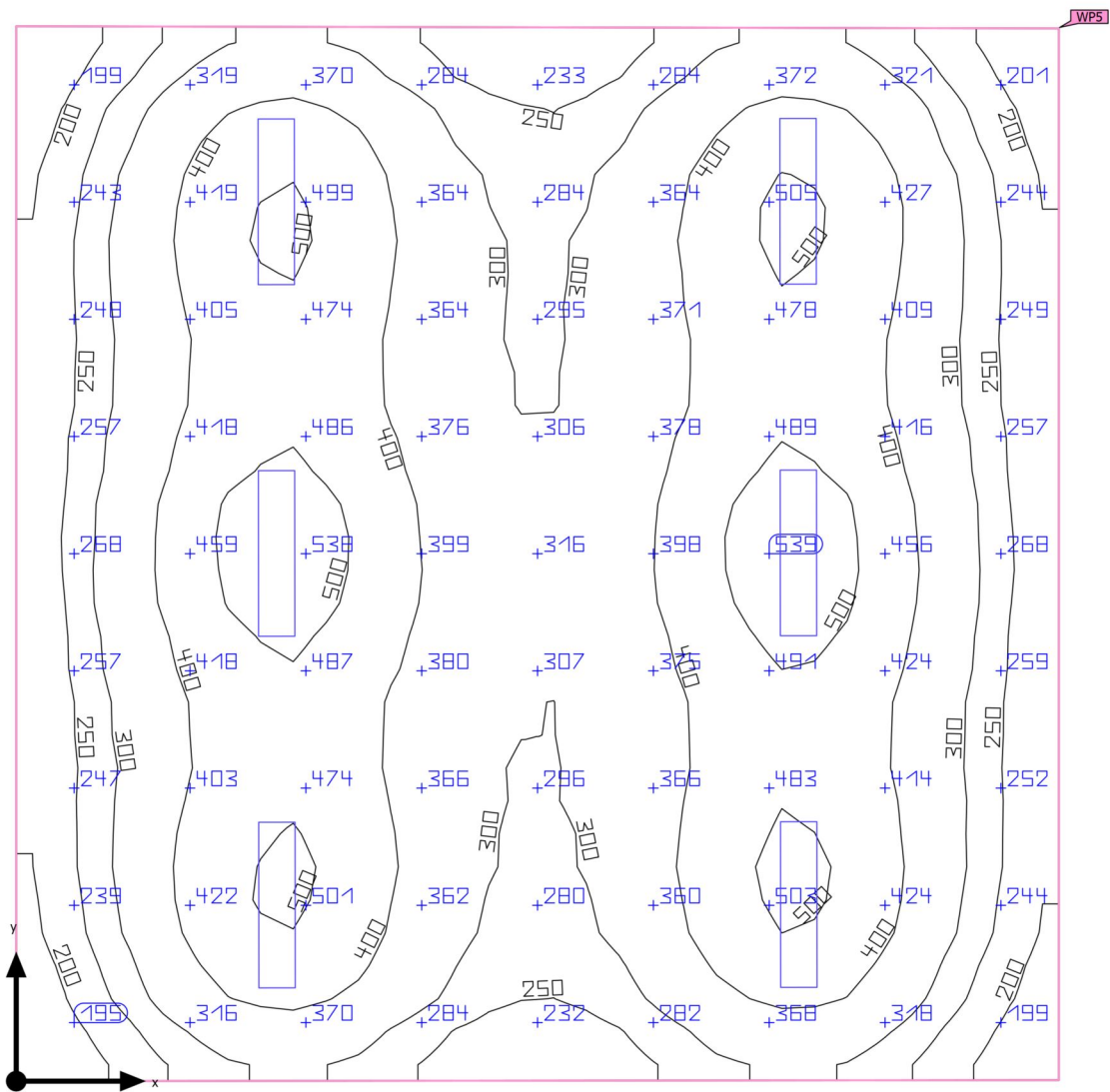
Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 4)	361 lx	161 lx	542 lx	0.45	0.30	WP4
Perpendicular illuminance (adaptive)	( $\geq 300$ lx)			( $\geq 0.40$ )		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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



Building 1 · Story 1 · Klase Mesimi 5 (Light scene 1)

Summary



Ground area	52.02 m <sup>2</sup>	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height <sub>Working plane</sub>	0.800 m
		Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Klase Mesimi 5 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	355 lx	$\geq 300$ lx	✓	WP5
	$g_1$	0.43	$\geq 0.40$	✓	WP5
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1850 kWh/a	✓	
Room	Lighting power density	3.58 W/m <sup>2</sup>	–		
		1.01 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 7.260 m x 7.175 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

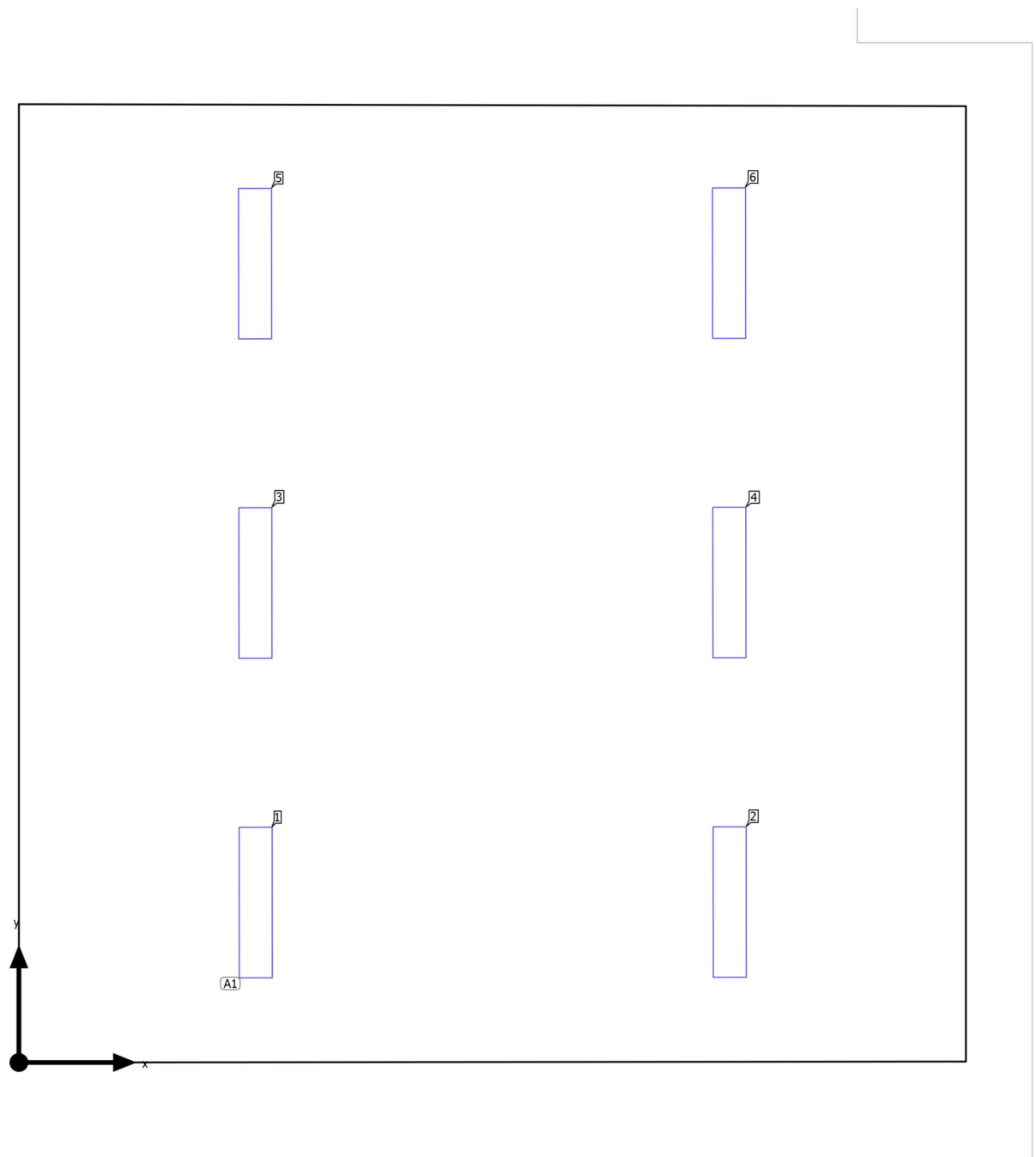
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

### Luminaire list

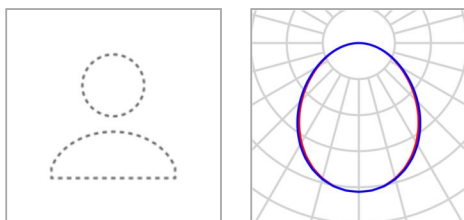
pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 5

## Luminaire layout plan



Building 1 · Story 1 · Klase Mesimi 5

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.794 m / 1.212 m / 2.800 m	1.794 m	1.212 m	2.800 m	1
X-direction	2 pcs., Center - center, 3.591 m	5.386 m	1.215 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.420 m	1.792 m	3.632 m	2.800 m	3
		5.383 m	3.635 m	2.800 m	4
Arrangement	A1	1.790 m	6.052 m	2.800 m	5
		5.381 m	6.055 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 5

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

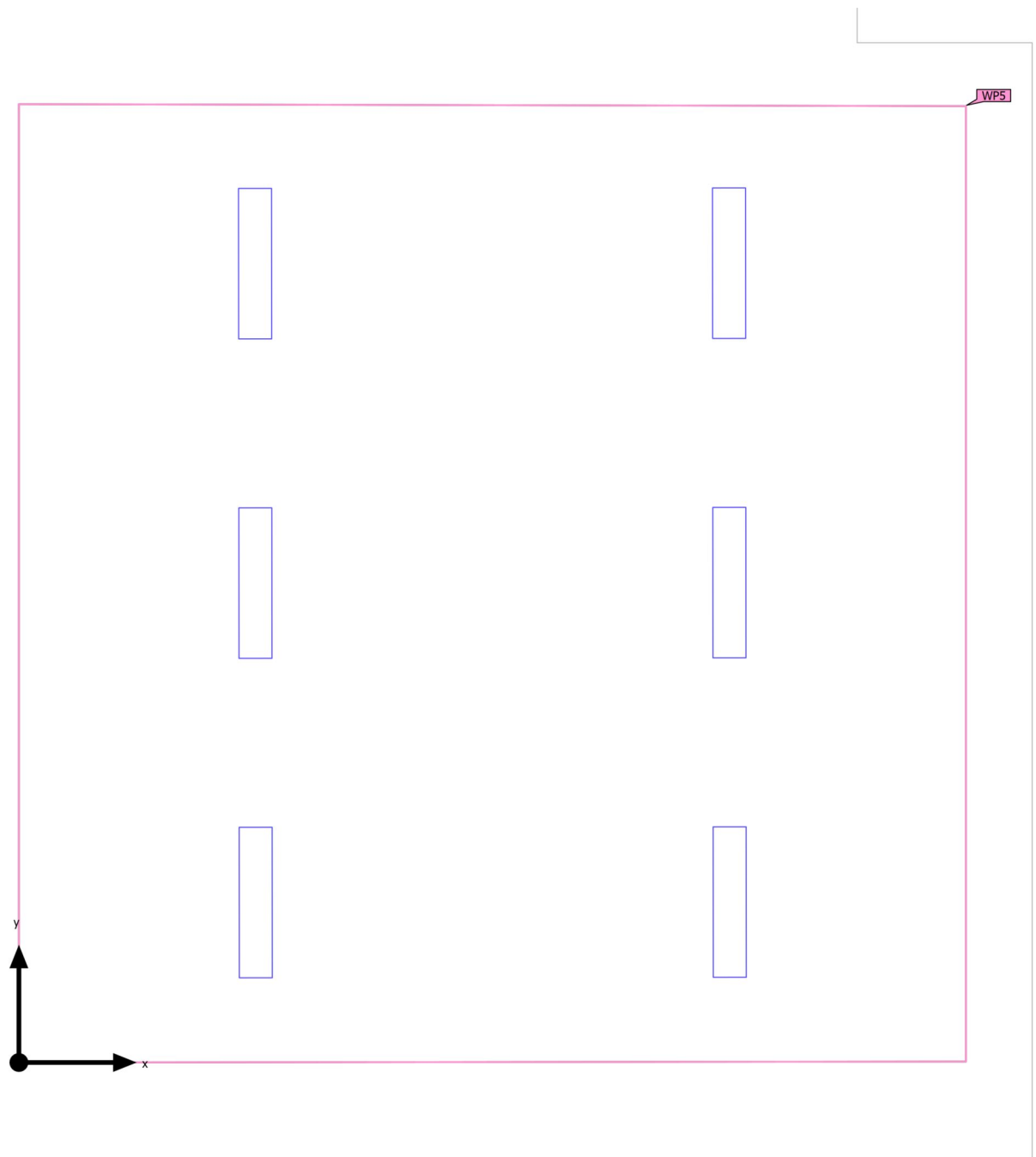
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 5 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 5 (Light scene 1)

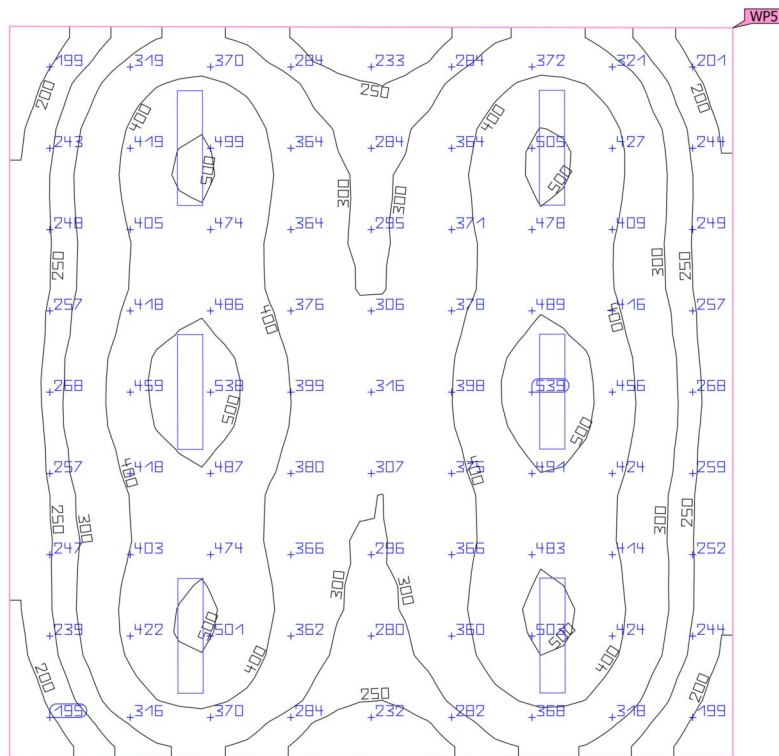
**Calculation objects**

## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 5) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	355 lx ( $\geq 300$ lx) ✓	151 lx	548 lx	0.43 ( $\geq 0.40$ ) ✓	0.28	WP5

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

Building 1 · Story 1 · Klase Mesimi 5 (Light scene 1)

**Working plane (Klase Mesimi 5)**

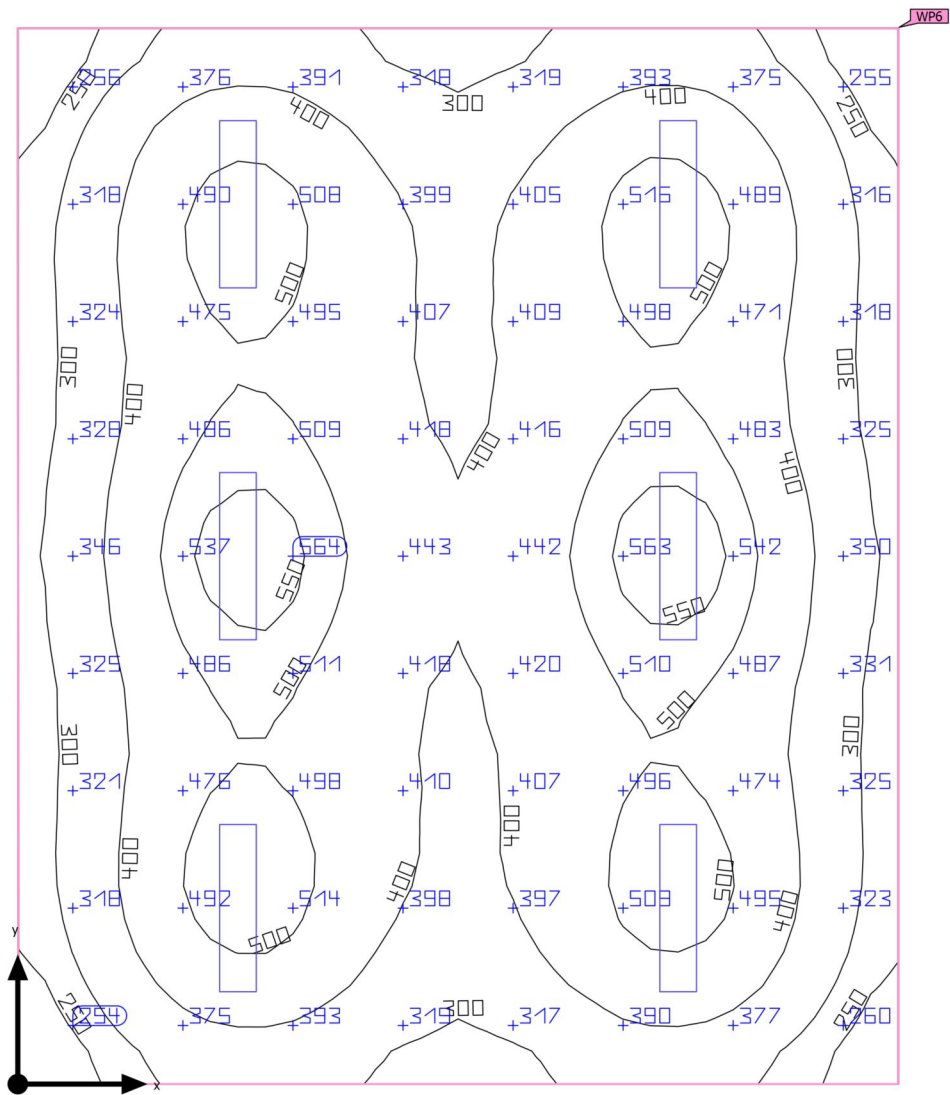
Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 5)	355 lx	151 lx	548 lx	0.43	0.28	WP5
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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



Building 1 · Story 1 · Klase Mesimi 6 (Light scene 1)

Summary



Ground area	43.19 m <sup>2</sup>	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height <sub>Working plane</sub>	0.800 m
		Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Klase Mesimi 6 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	412 lx	$\geq 300$ lx	✓	WP6
	$g_1$	0.50	$\geq 0.40$	✓	WP6
Glare valuation <sup>(1)</sup>	$R_{UG, \max}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1550 kWh/a	✓	
Room	Lighting power density	4.31 W/m <sup>2</sup>	–		
		1.05 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 6.003 m x 7.198 m and SHR of 0.25.

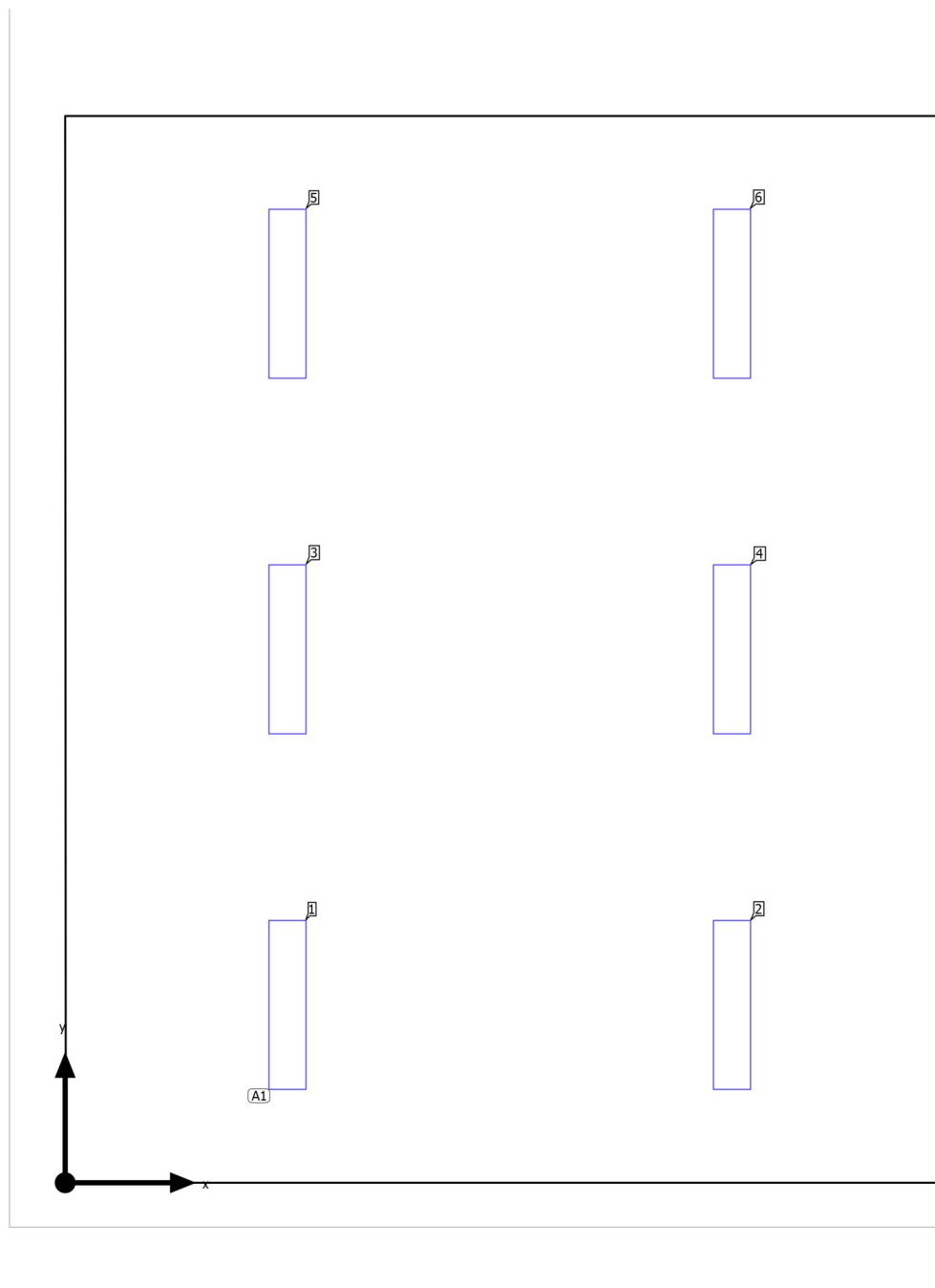
(2) Calculated using DIN:18599-4.

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

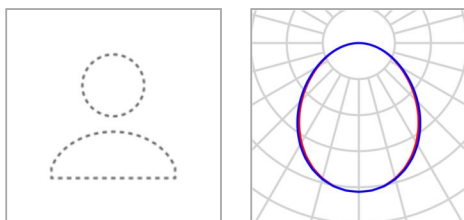
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 6

**Luminaire layout plan**

Building 1 · Story 1 · Klase Mesimi 6

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.501 m / 1.200 m / 2.800 m	1.501 m	1.200 m	2.800 m	1
X-direction	2 pcs., Center - center, 3.001 m	4.502 m	1.200 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.399 m	1.501 m	3.599 m	2.800 m	3
		4.502 m	3.599 m	2.800 m	4
Arrangement	A1	1.501 m	5.998 m	2.800 m	5
		4.502 m	5.998 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 6

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

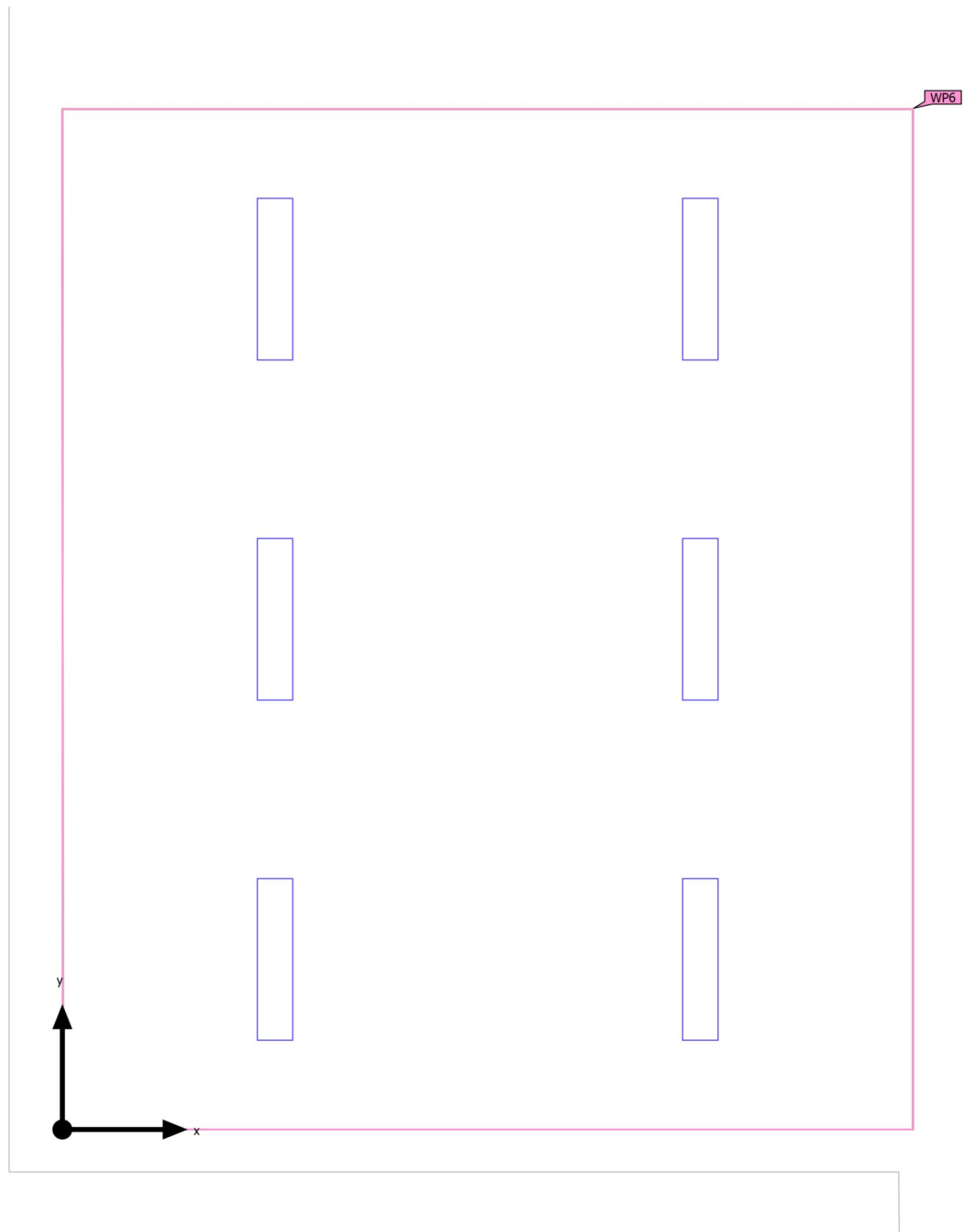
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 6 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 6 (Light scene 1)

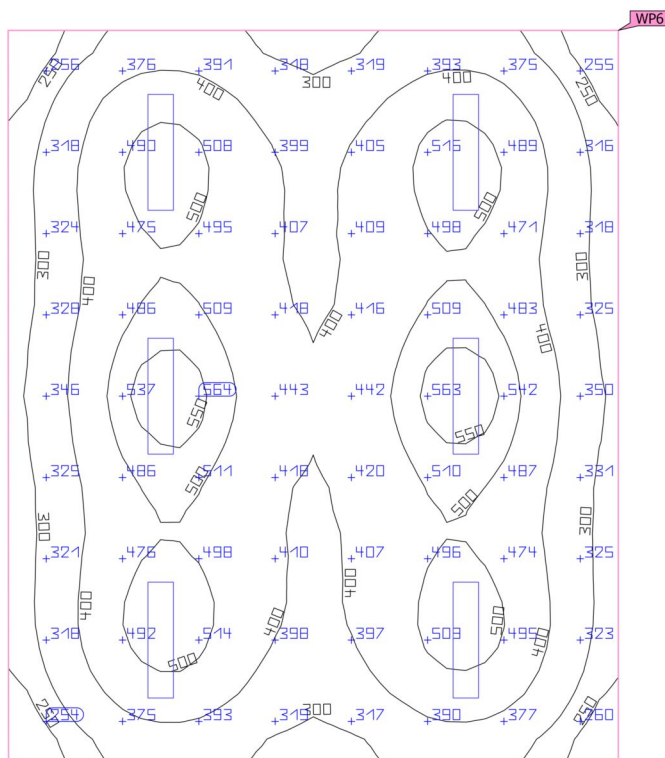
**Calculation objects**

## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 6) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	412 lx ( $\geq 300$ lx) ✓	204 lx	575 lx	0.50 ( $\geq 0.40$ ) ✓	0.35	WP6

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

Building 1 · Story 1 · Klase Mesimi 6 (Light scene 1)

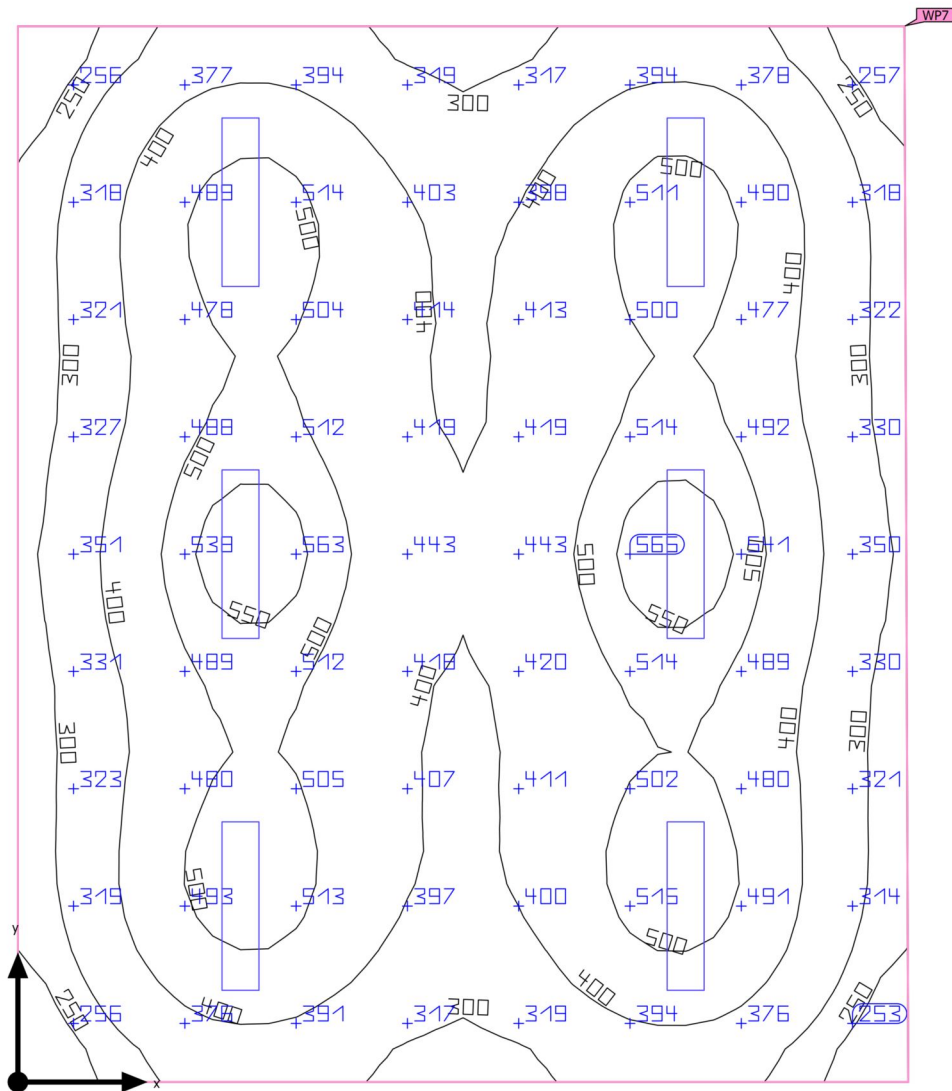
**Working plane (Klase Mesimi 6)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 6)	412 lx	204 lx	575 lx	0.50	0.35	WP6
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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



Building 1 · Story 1 · Klase Mesimi 7 (Light scene 1)

**Summary**

Ground area	42.94 m <sup>2</sup>	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height <sub>Working plane</sub>	0.800 m
		Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Klase Mesimi 7 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	413 lx	$\geq 300$ lx	✓	WP7
	$g_1$	0.49	$\geq 0.40$	✓	WP7
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1550 kWh/a	✓	
Room	Lighting power density	4.33 W/m <sup>2</sup>	–		
		1.05 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 6.024 m x 7.143 m and SHR of 0.25.

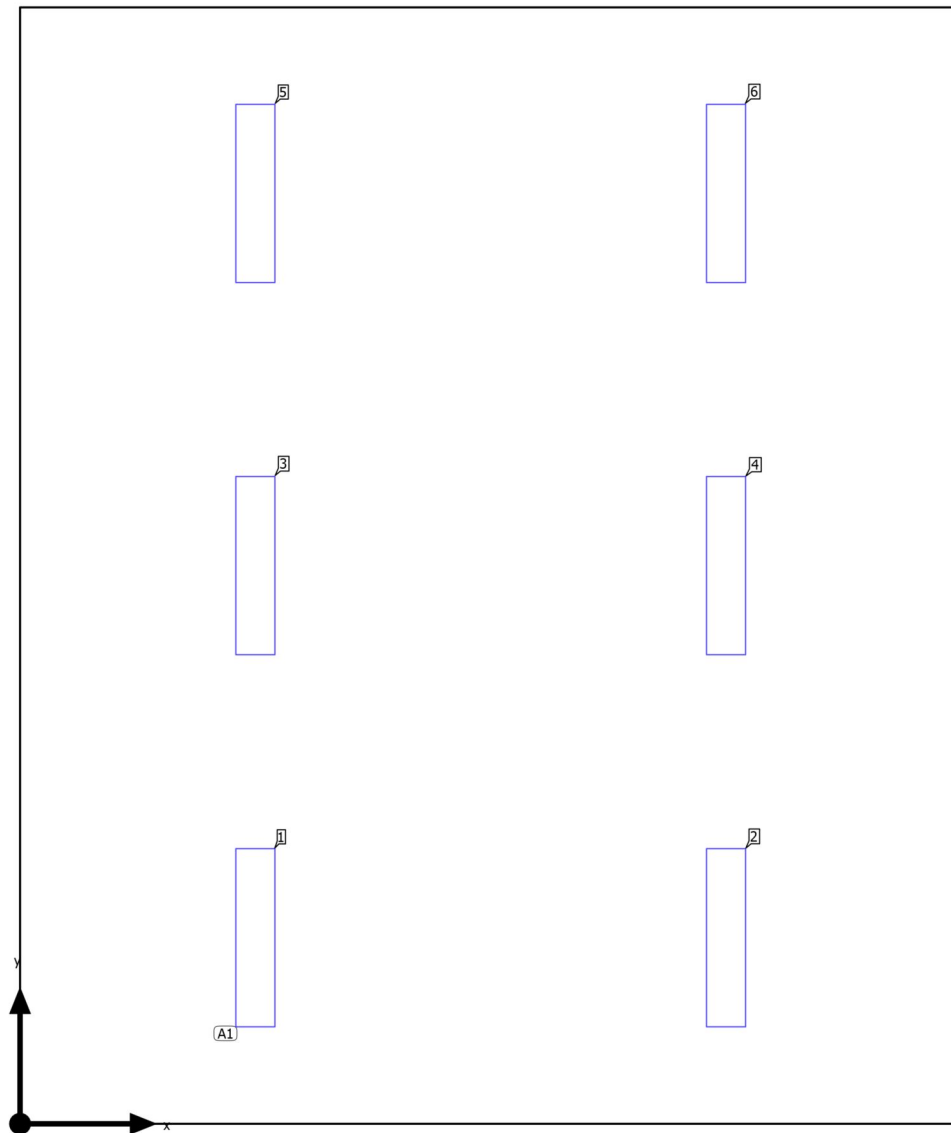
(2) Calculated using DIN:18599-4.

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

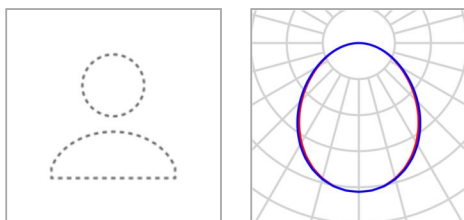
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 7

**Luminaire layout plan**

Building 1 · Story 1 · Klase Mesimi 7

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.506 m / 1.191 m / 2.800 m	1.506 m	1.191 m	2.800 m	1
X-direction	2 pcs., Center - center, 3.012 m	4.518 m	1.191 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.381 m	1.506 m	3.572 m	2.800 m	3
		4.518 m	3.572 m	2.800 m	4
Arrangement	A1	1.506 m	5.953 m	2.800 m	5
		4.518 m	5.953 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 7

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

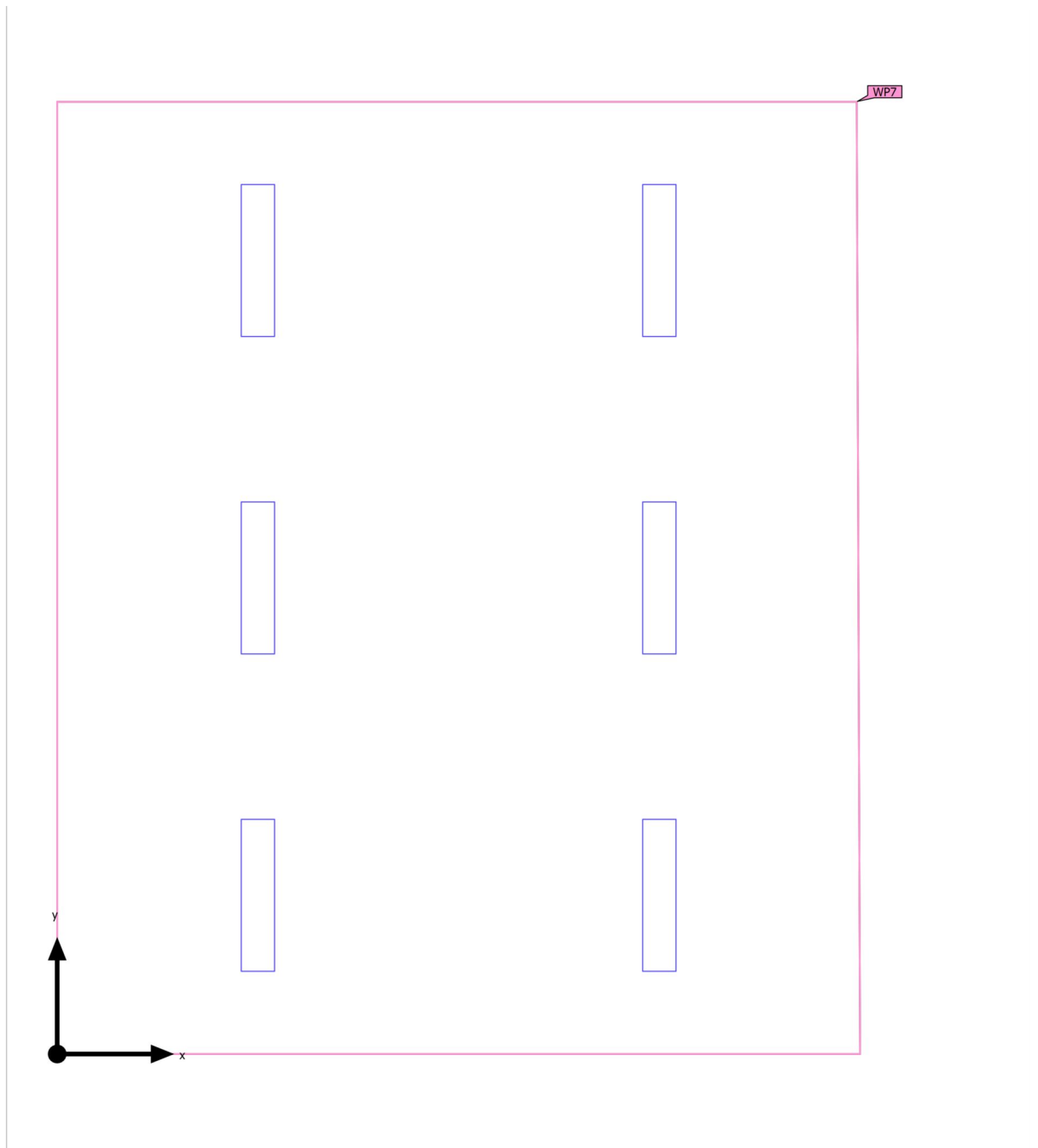
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 7 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 7 (Light scene 1)

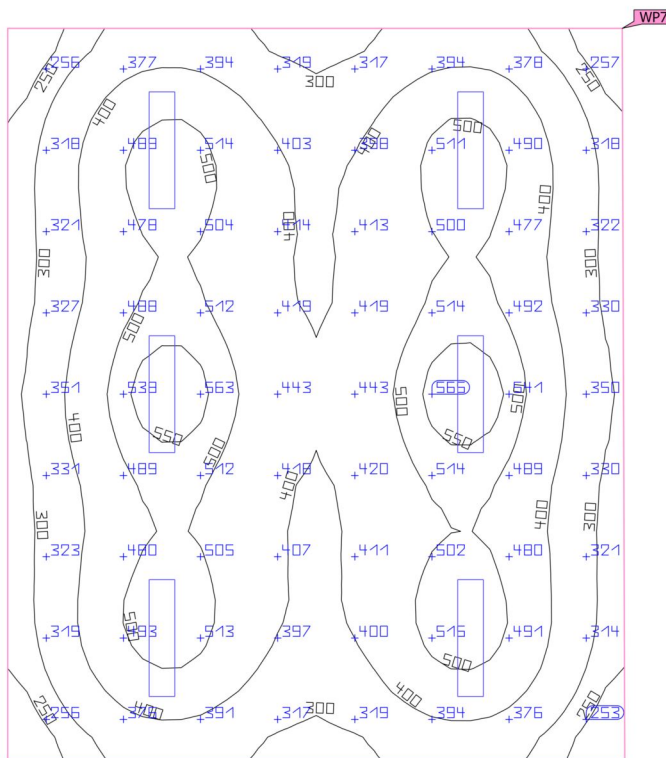
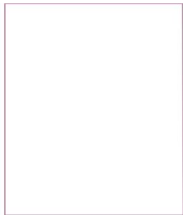
**Calculation objects**

## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 7) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	413 lx ( $\geq 300$ lx) ✓	203 lx	576 lx	0.49 ( $\geq 0.40$ ) ✓	0.35	WP7

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

Building 1 · Story 1 · Klase Mesimi 7 (Light scene 1)

**Working plane (Klase Mesimi 7)**

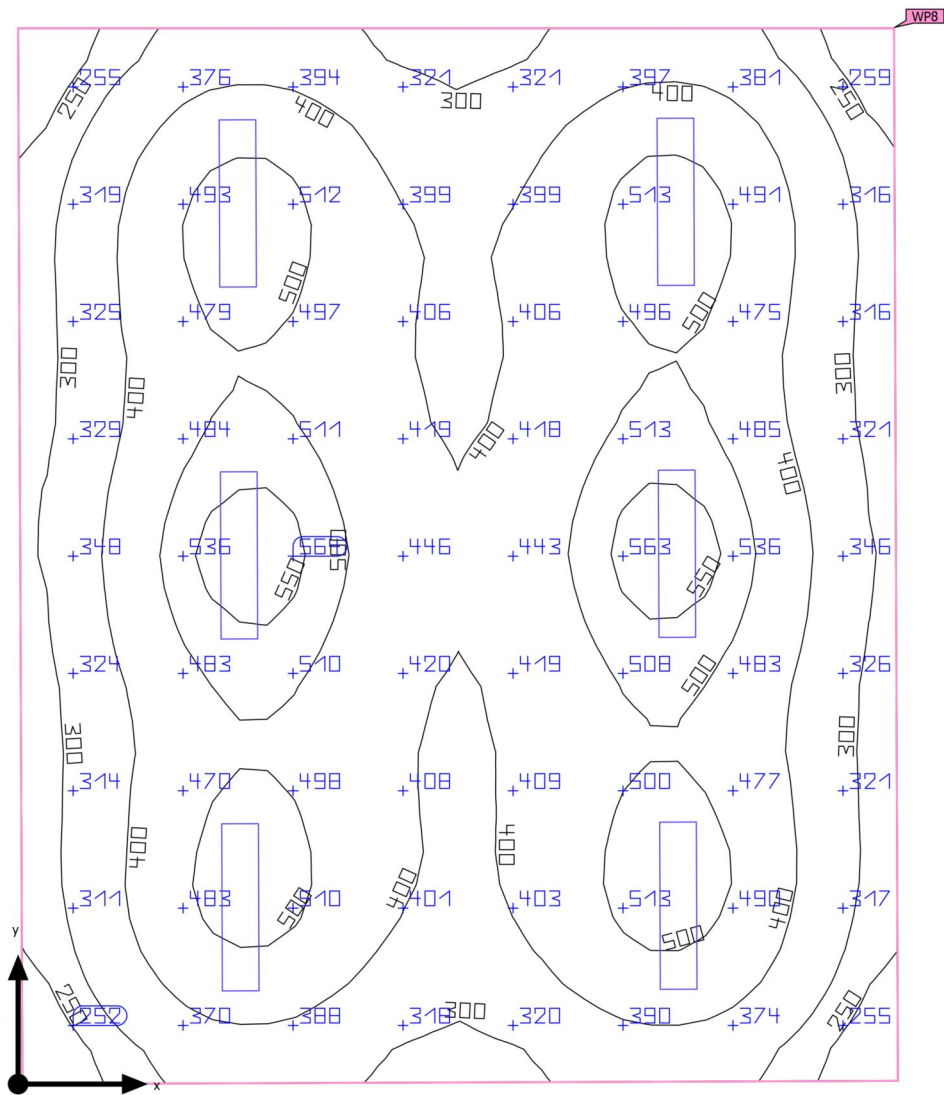
Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 7)	413 lx	203 lx	576 lx	0.49	0.35	WP7
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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



Building 1 · Story 1 · Klase Mesimi 8 (Light scene 1)

Summary



Ground area	42.94 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.800 m
Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Klase Mesimi 8 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	412 lx	$\geq 300$ lx	✓	WP8
	$g_1$	0.50	$\geq 0.40$	✓	WP8
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	20	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1550 kWh/a	✓	
Room	Lighting power density	4.33 W/m <sup>2</sup>	–		
		1.05 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 7.201 m x 5.973 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

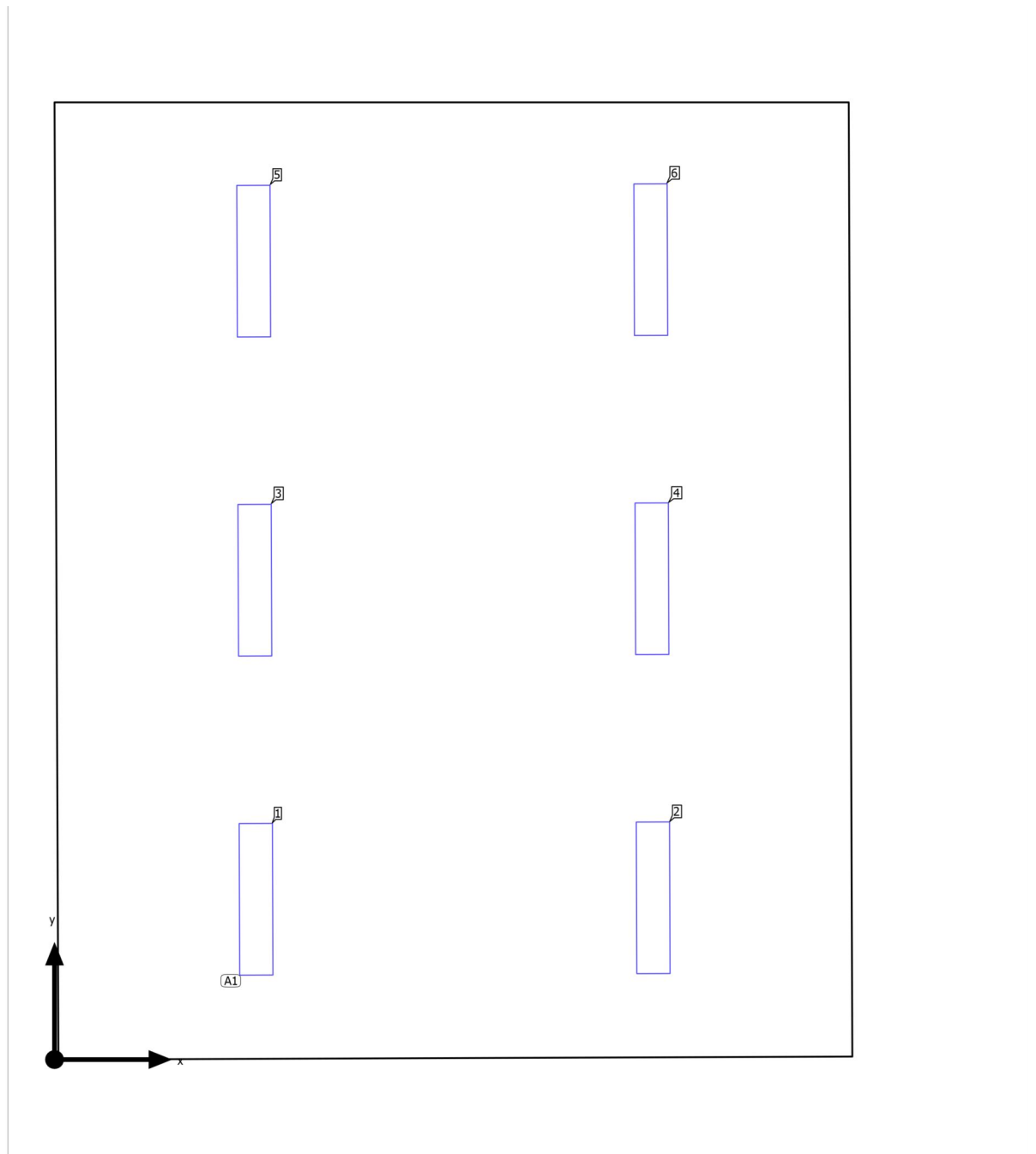
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

### Luminaire list

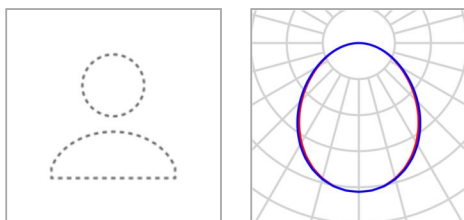
pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	20	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 8

## Luminaire layout plan



Building 1 · Story 1 · Klase Mesimi 8

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.516 m / 1.206 m / 2.800 m	1.516 m	1.206 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.987 m	4.503 m	1.217 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.400 m	1.507 m	3.606 m	2.800 m	3
Arrangement	A1	4.494 m	3.617 m	2.800 m	4
		1.498 m	6.006 m	2.800 m	5
		4.485 m	6.017 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 8

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

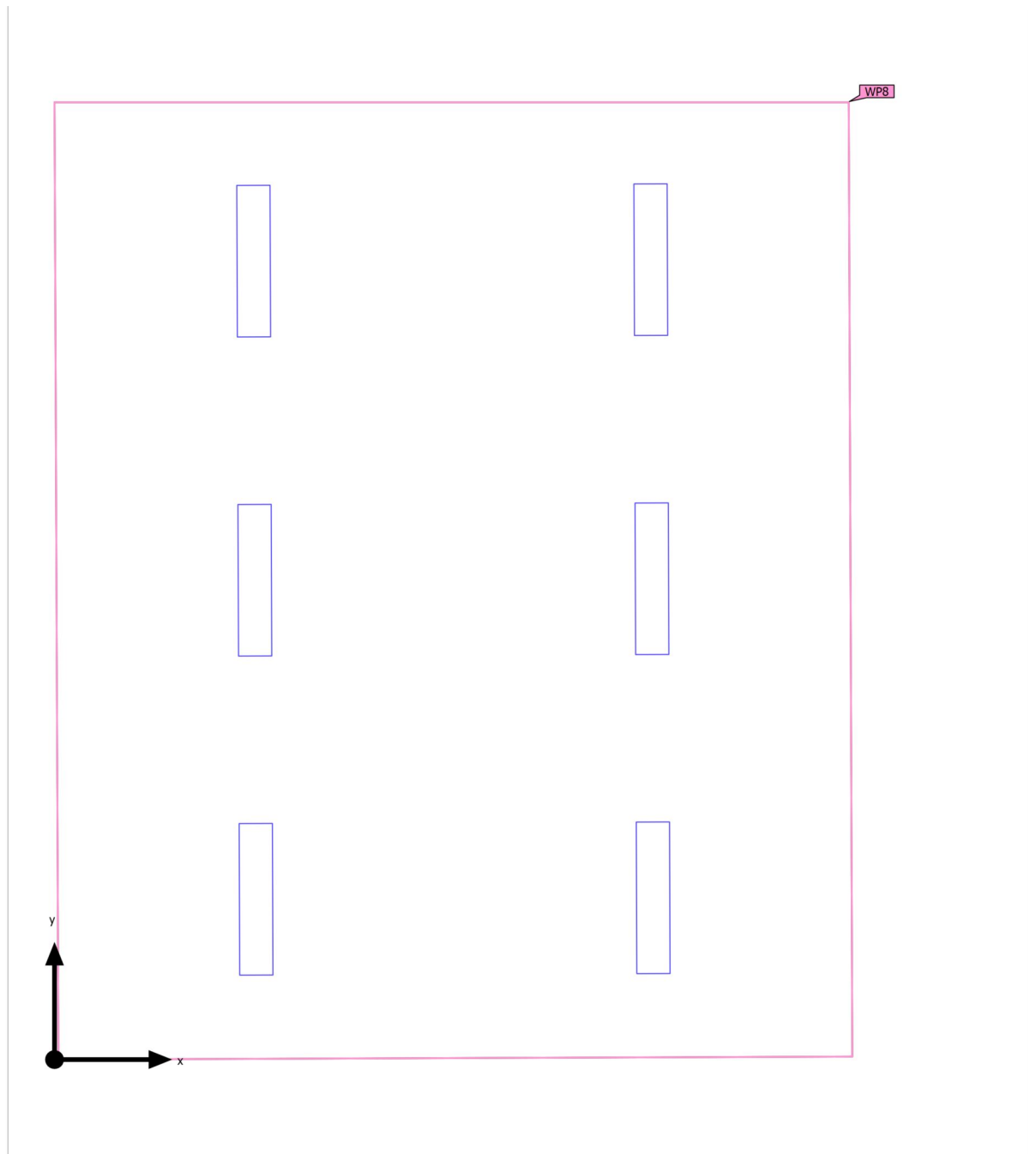
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 8 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 8 (Light scene 1)

**Calculation objects**

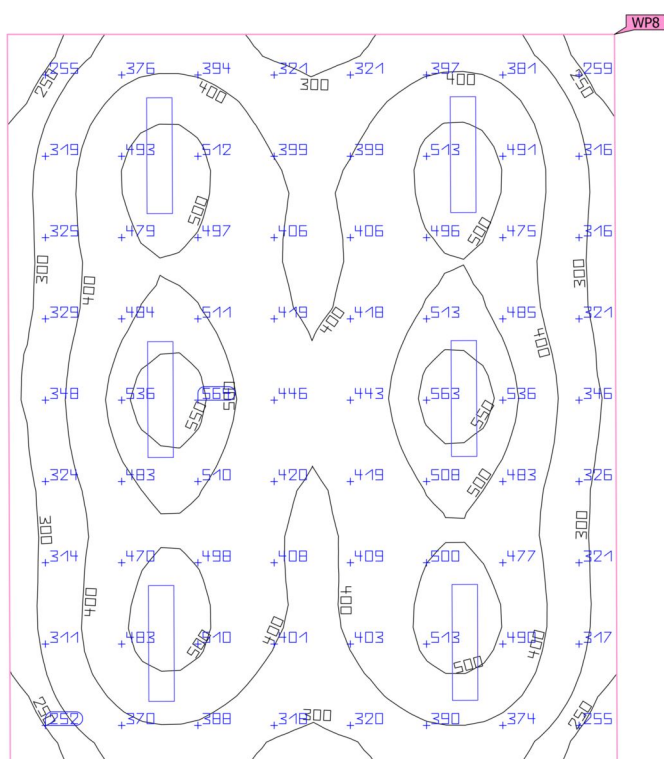
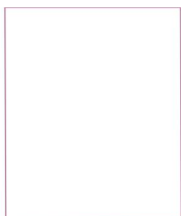
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 8) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	412 lx ( $\geq 300$ lx) ✓	205 lx	573 lx	0.50 ( $\geq 0.40$ ) ✓	0.36	WP8

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

Building 1 · Story 1 · Klase Mesimi 8 (Light scene 1)

### Working plane (Klase Mesimi 8)



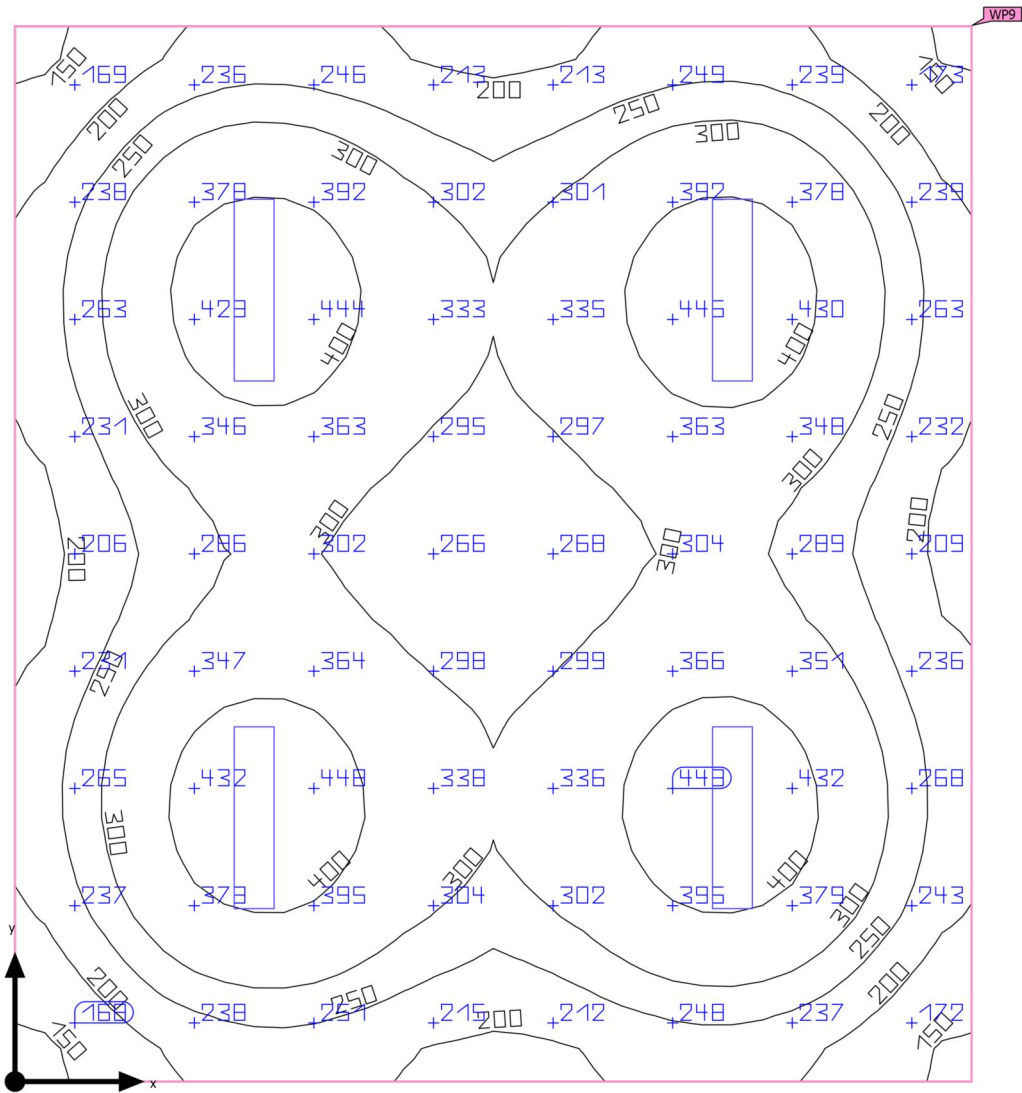
Properties	E (Target)	E <sub>min</sub>	E <sub>max</sub>	g <sub>1</sub> (Target)	g <sub>2</sub>	Index
Working plane (Klase Mesimi 8) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	412 lx (≥ 300 lx) ✓	205 lx	573 lx	0.50 (≥ 0.40) ✓	0.36	WP8

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



Building 1 · Story 1 · Klase Mesimi 9 (Light scene 1)

Summary



Ground area	39.69 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.800 m
Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Klase Mesimi 9 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	301 lx	$\geq 300$ lx	✓	WP9
	$g_1$	0.47	$\geq 0.40$	✓	WP9
Glare valuation <sup>(1)</sup>	$R_{UG, \max}$	20	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	165 kWh/a	max. 1400 kWh/a	✓	
Room	Lighting power density	3.12 W/m <sup>2</sup>	–		
		1.04 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 5.999 m x 6.617 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

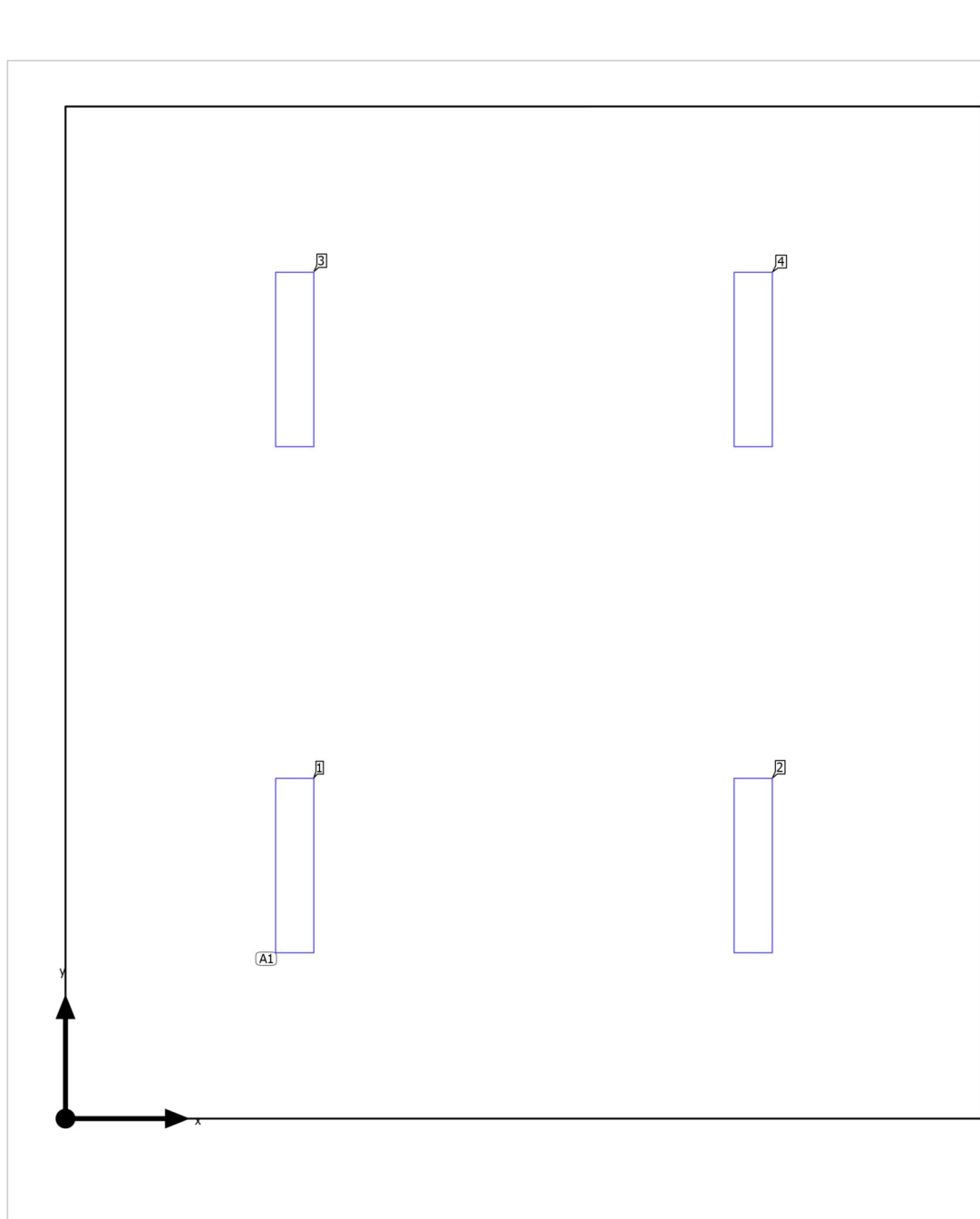
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

### Luminaire list

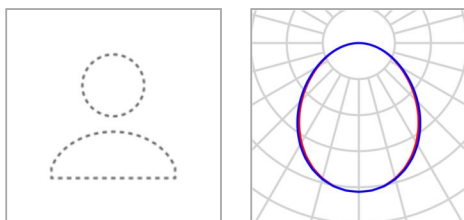
pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	20	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 9

## Luminaire layout plan



Building 1 · Story 1 · Klase Mesimi 9

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member
Article No.	2059438
Article name	LYTEPANEL II 1200 4K DALI SM
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm

P	31.0 W
$\Phi_{\text{Luminaire}}$	4349 lm

4 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.500 m / 1.654 m / 2.800 m	1.500 m	1.654 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.999 m	4.499 m	1.654 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.309 m	1.500 m	4.963 m	2.800 m	3
Arrangement	A1	4.499 m	4.963 m	2.800 m	4

Building 1 · Story 1 · Klase Mesimi 9

**Luminaire list** $\Phi_{\text{total}}$ 

17396 lm

 $P_{\text{total}}$ 

124.0 W

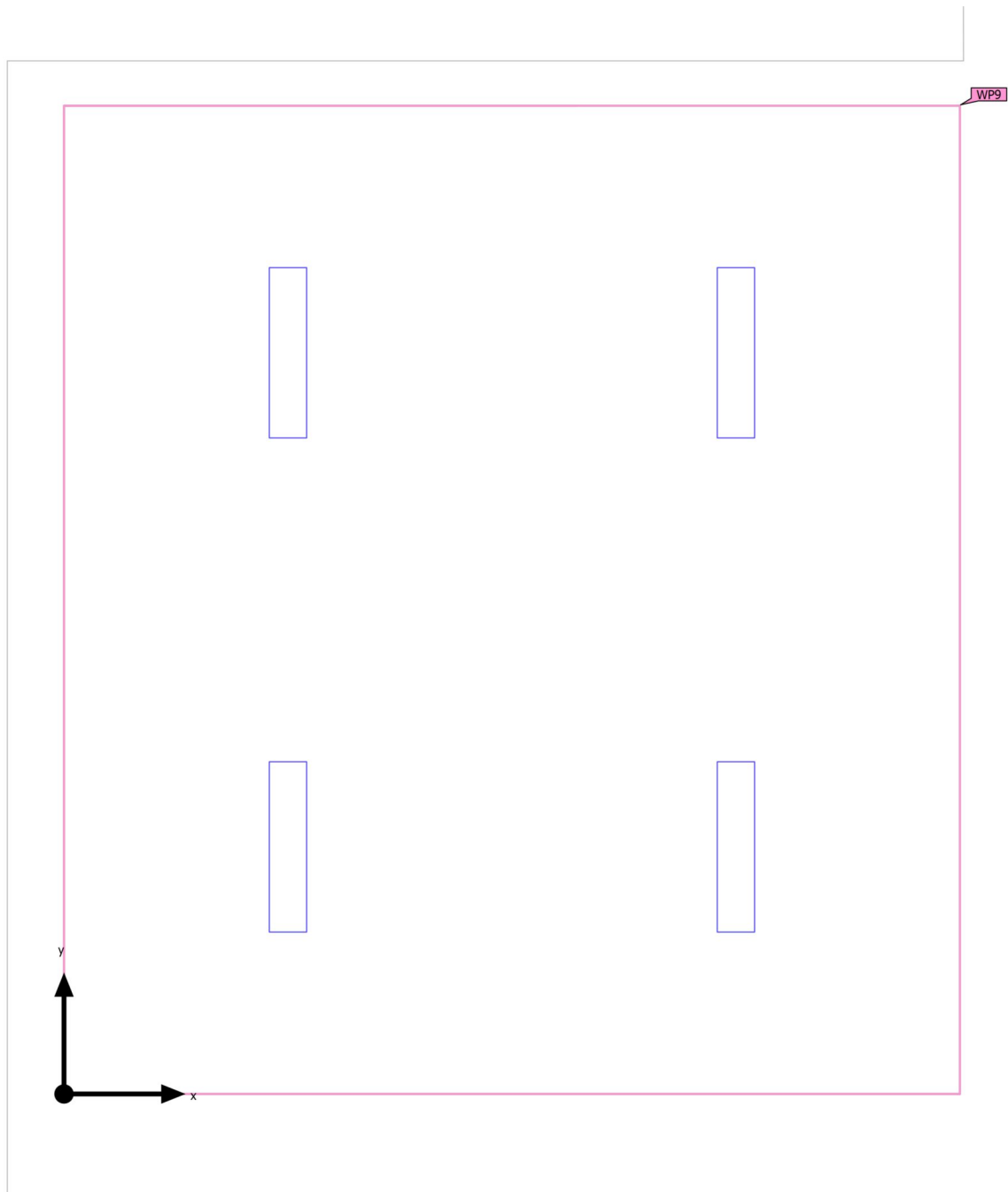
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 9 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 9 (Light scene 1)

**Calculation objects**

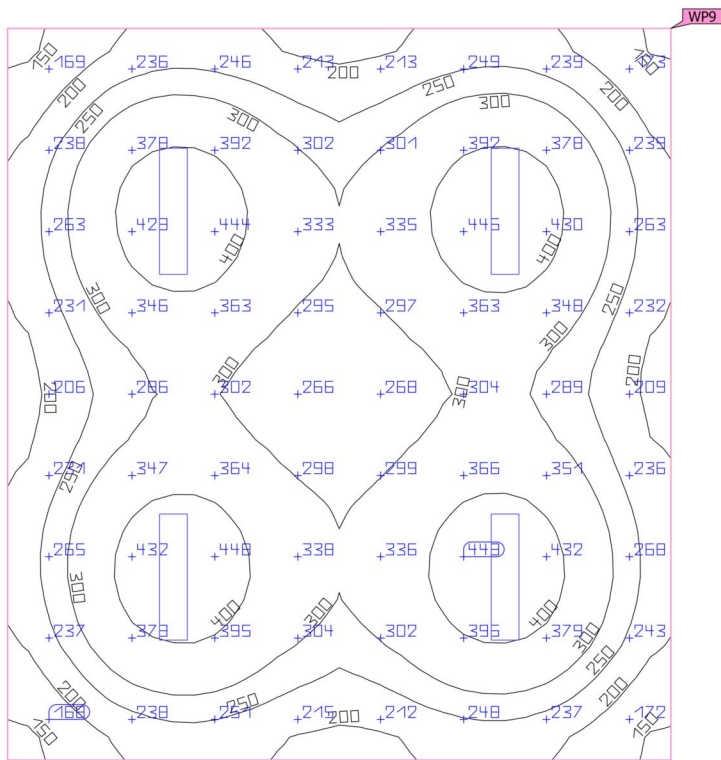
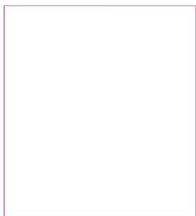
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 9) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	301 lx ( $\geq 300$ lx) ✓	141 lx	467 lx	0.47 ( $\geq 0.40$ ) ✓	0.30	WP9

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

Building 1 · Story 1 · Klase Mesimi 9 (Light scene 1)

Working plane (Klase Mesimi 9)



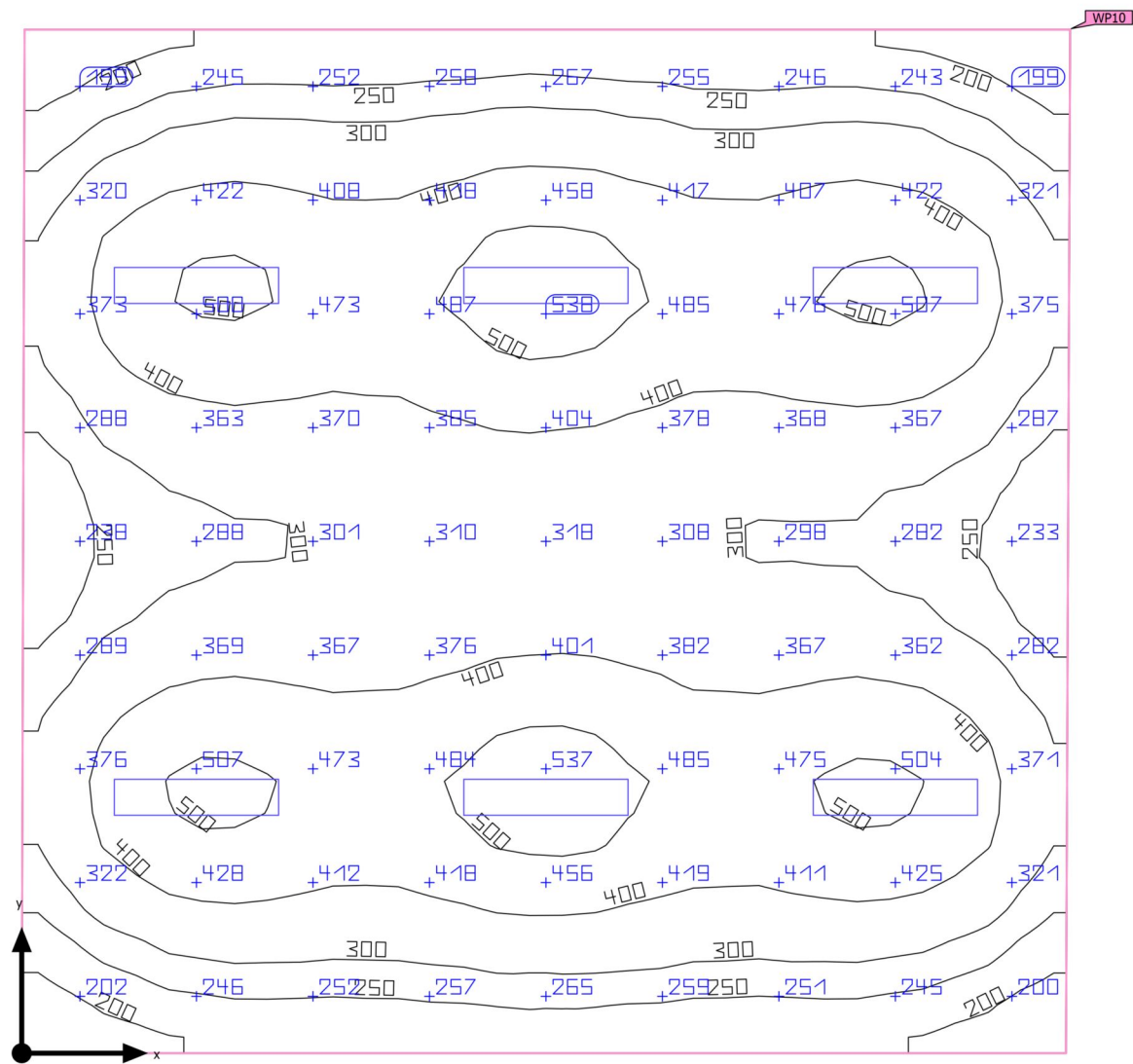
Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 9) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	301 lx (≥ 300 lx) ✓	141 lx	467 lx	0.47 (≥ 0.40) ✓	0.30	WP9

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



Building 1 · Story 1 · Klase Mesimi 10 (Light scene 1)

Summary



Ground area	51.53 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.800 m
Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Klase Mesimi 10 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	357 lx	$\geq 300$ lx	✓	WP10
	$g_1$	0.43	$\geq 0.40$	✓	WP10
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1850 kWh/a	✓	
Room	Lighting power density	3.61 W/m <sup>2</sup>	–		
		1.01 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 7.277 m x 7.105 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

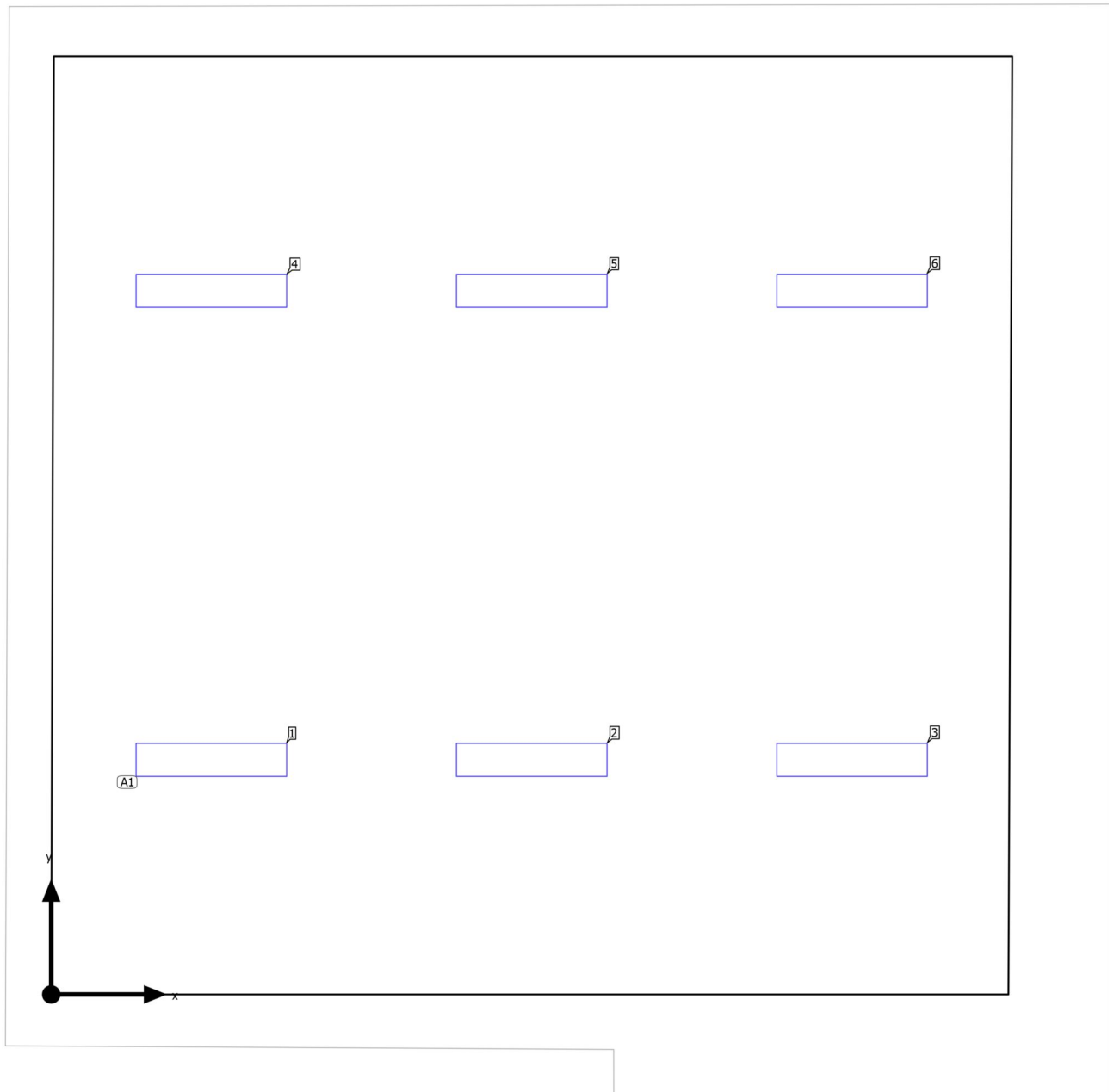
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

### Luminaire list

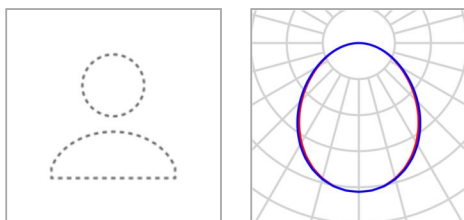
pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 10

## Luminaire layout plan



Building 1 · Story 1 · Klase Mesimi 10

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.213 m / 1.776 m / 2.800 m	1.213 m	1.776 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.426 m	3.638 m	1.776 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.553 m	6.064 m	1.776 m	2.800 m	3
Arrangement	A1	1.213 m	5.329 m	2.800 m	4
		3.638 m	5.329 m	2.800 m	5
		6.064 m	5.329 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 10

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

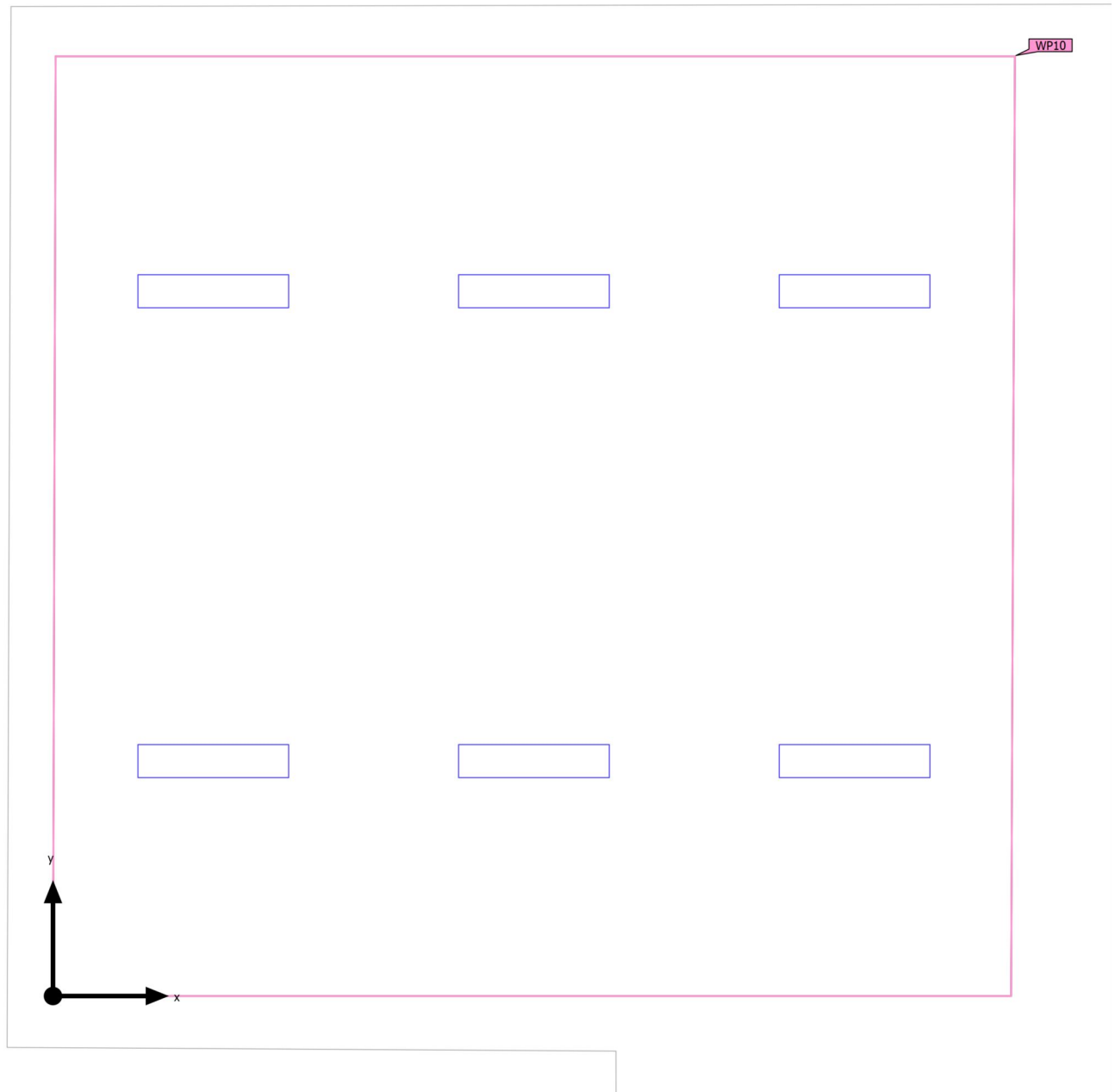
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 10 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 10 (Light scene 1)

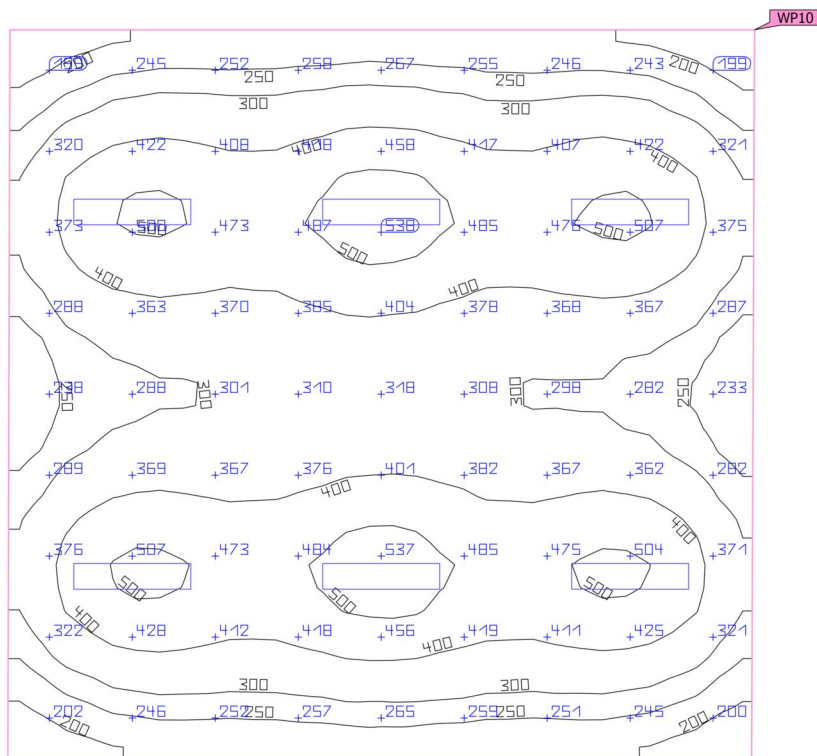
**Calculation objects**

## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 10) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	357 lx ( $\geq 300$ lx) ✓	155 lx	547 lx	0.43 ( $\geq 0.40$ ) ✓	0.28	WP10

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

Building 1 · Story 1 · Klase Mesimi 10 (Light scene 1)

**Working plane (Klase Mesimi 10)**

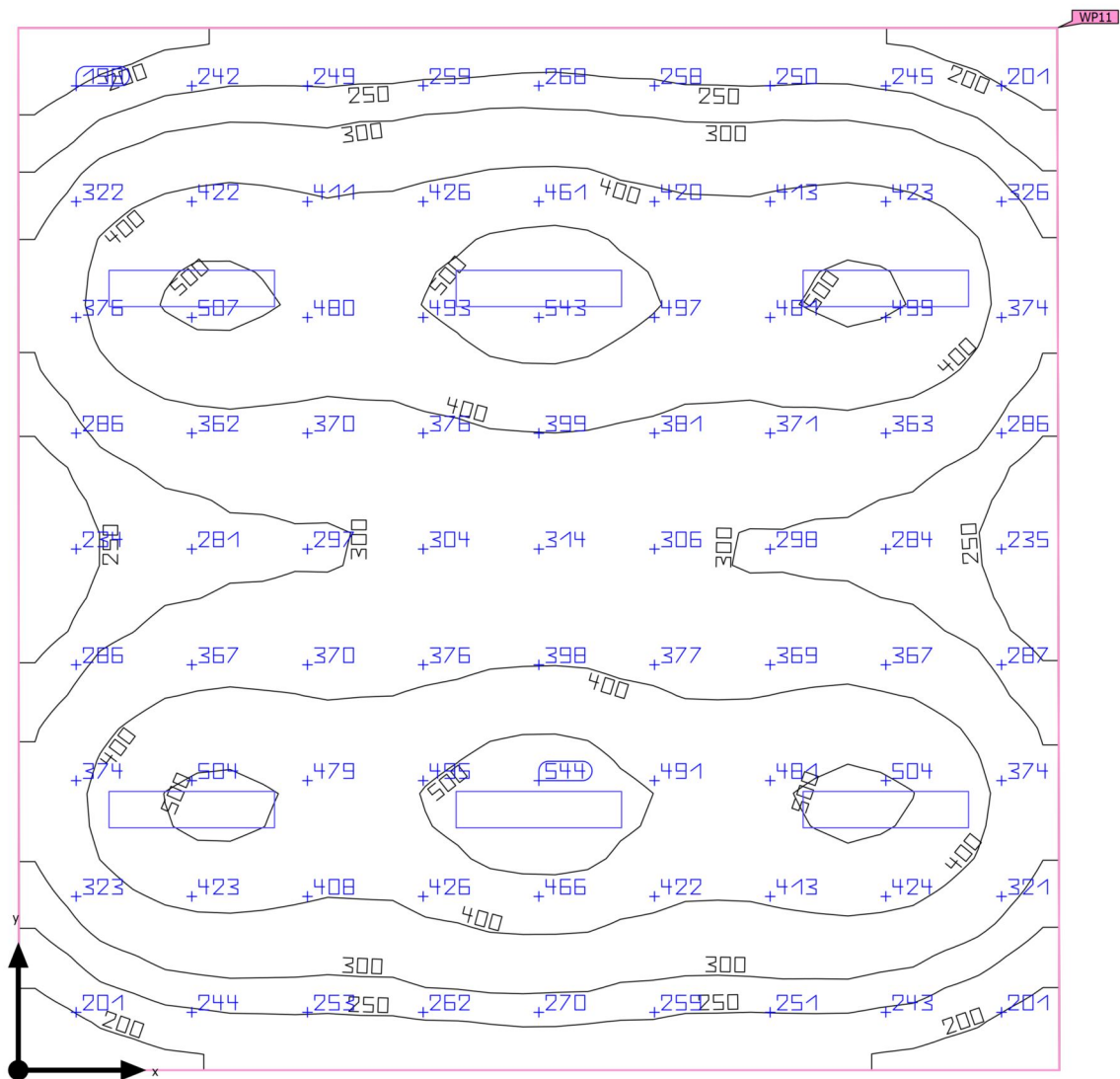
Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 10)	357 lx	155 lx	547 lx	0.43	0.28	WP10
Perpendicular illuminance (adaptive)	( $\geq 300$ lx)			( $\geq 0.40$ )		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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



Building 1 · Story 1 · Klase Mesimi 11 (Light scene 1)

## Summary



Ground area	51.42 m <sup>2</sup>
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Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
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Light loss factor	0.80 (fixed)
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Clearance height	2.800 m
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Mounting height	2.800 m
-----------------	---------

Height <sub>Working plane</sub>	0.800 m
---------------------------------	---------

Wall zone <sub>Working plane</sub>	0.000 m
------------------------------------	---------

Building 1 · Story 1 · Klase Mesimi 11 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	358 lx	$\geq 0.50$ lx	✓	WP11
	$g_1$	0.43	$\geq 0.40$	✓	WP11
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1850 kWh/a	✓	
Room	Lighting power density	3.62 W/m <sup>2</sup>	–		
		1.01 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 7.173 m x 7.178 m and SHR of 0.25.

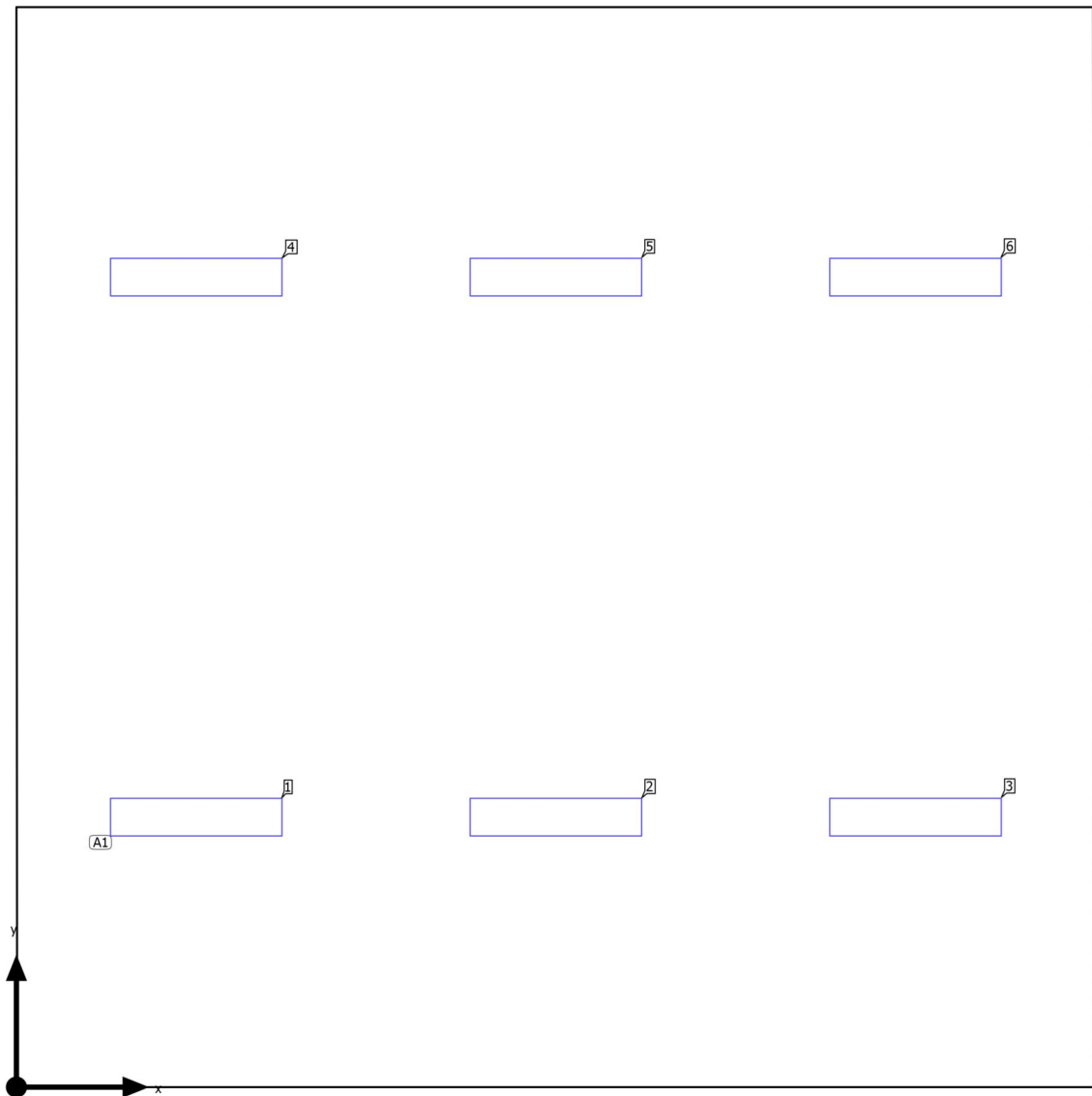
(2) Calculated using DIN:18599-4.

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

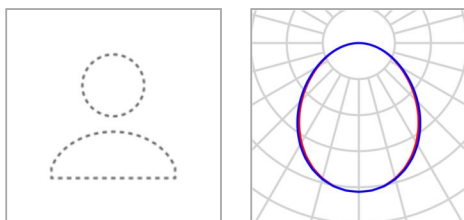
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 11

**Luminaire layout plan**

Building 1 · Story 1 · Klase Mesimi 11

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.195 m / 1.795 m / 2.800 m	1.195 m	1.795 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.391 m	3.586 m	1.795 m	2.800 m	2
		5.977 m	1.795 m	2.800 m	3
Y-direction	2 pcs., Center - center, 3.589 m	1.195 m	5.384 m	2.800 m	4
		3.586 m	5.384 m	2.800 m	5
Arrangement	A1	5.977 m	5.384 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 11

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

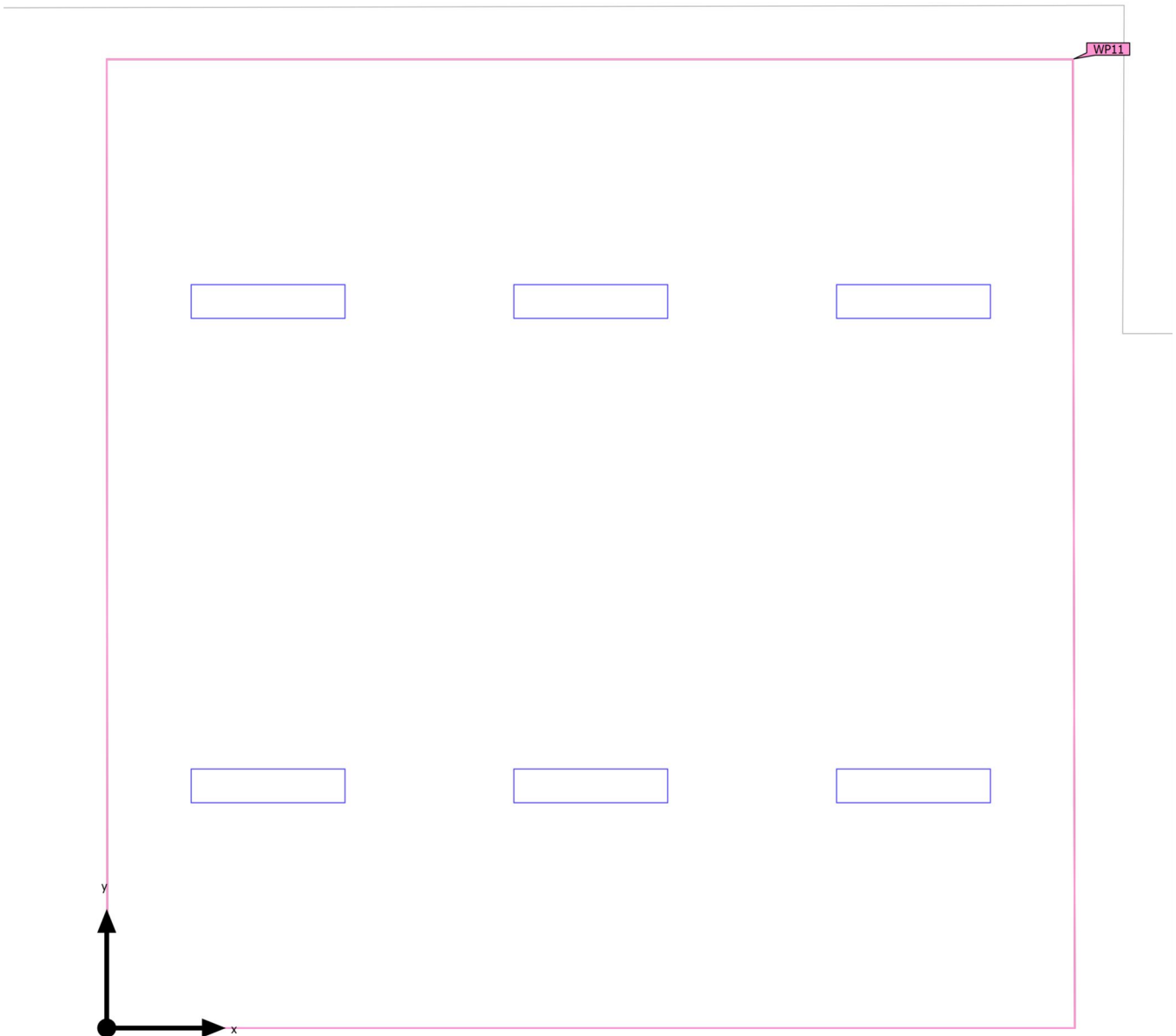
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 11 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 11 (Light scene 1)

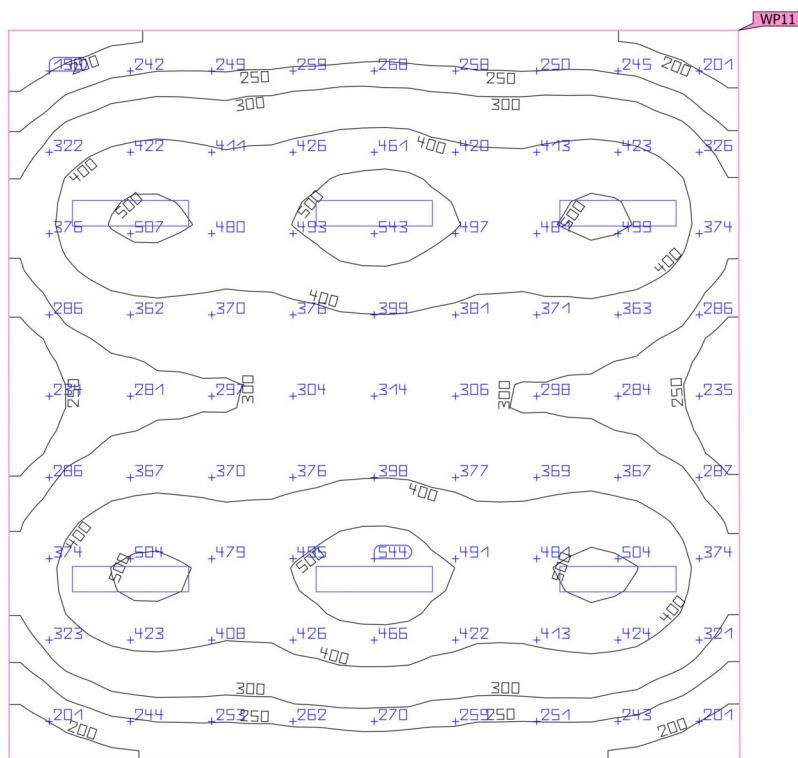
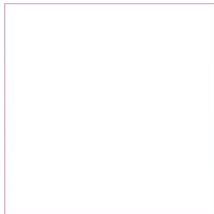
**Calculation objects**

## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 11) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	358 lx ( $\geq 0.50$ lx) ✓	154 lx	554 lx	0.43 ( $\geq 0.40$ ) ✓	0.28	WP11

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

Building 1 · Story 1 · Klase Mesimi 11 (Light scene 1)

**Working plane (Klase Mesimi 11)**

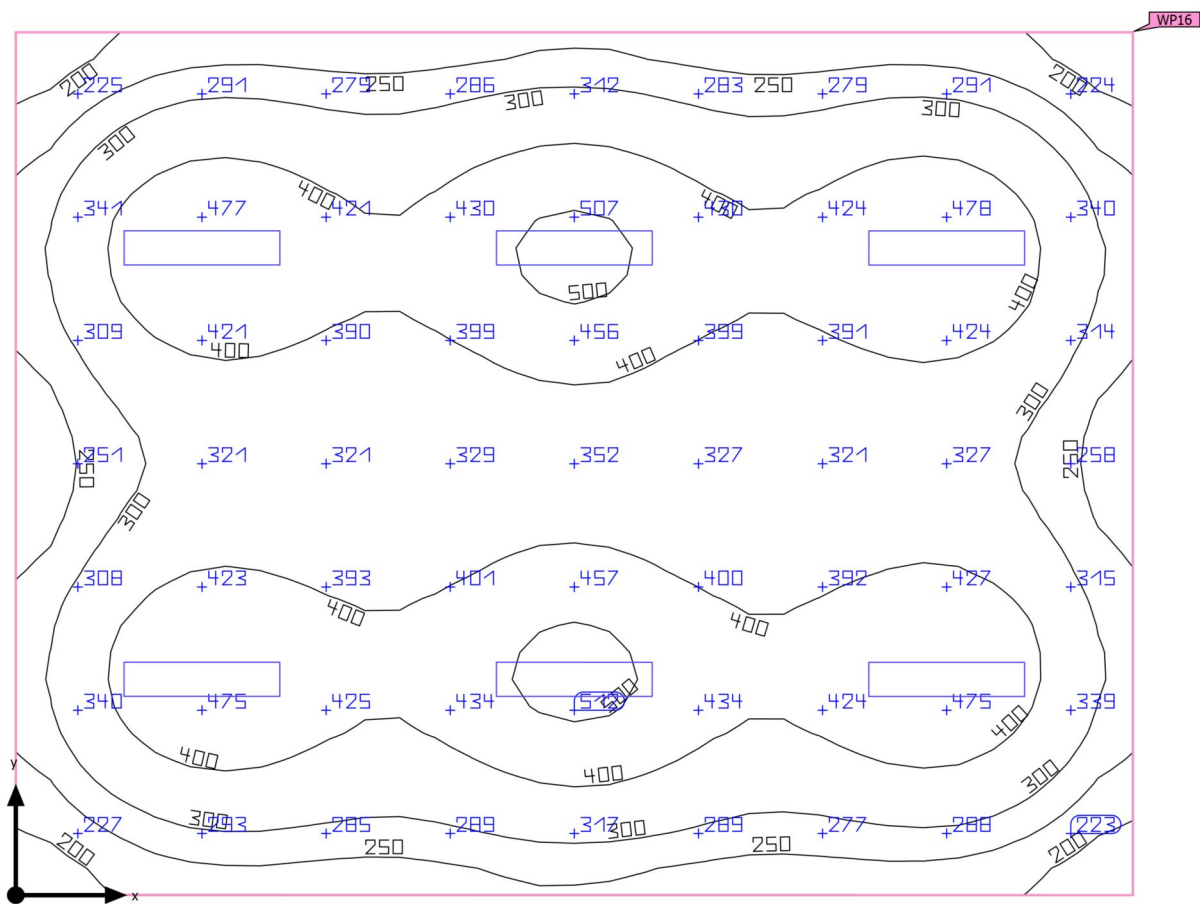
Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 11)	358 lx	154 lx	554 lx	0.43	0.28	WP11
Perpendicular illuminance (adaptive)	( $\geq 0.50$ lx)			( $\geq 0.40$ )		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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



Building 1 · Story 1 · Klase Mesimi 12 (Light scene 1)

Summary



Ground area	51.68 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.800 m
Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Klase Mesimi 12 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	356 lx	$\geq 300$ lx	✓	WP16
	$g_1$	0.46	$\geq 0.40$	✓	WP16
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1850 kWh/a	✓	
Room	Lighting power density	3.60 W/m <sup>2</sup>	–		
		1.01 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 6.320 m x 8.178 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

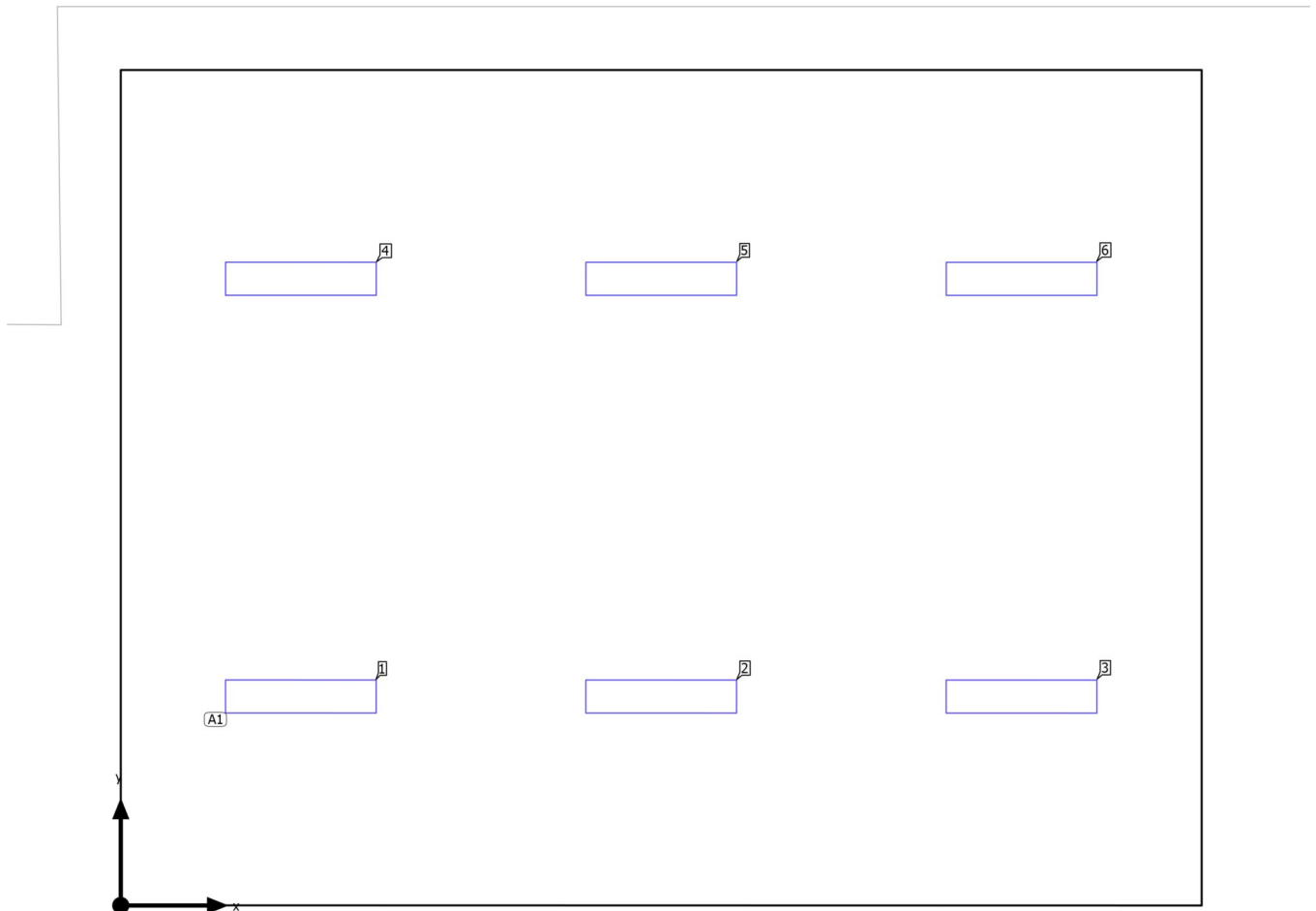
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

### Luminaire list

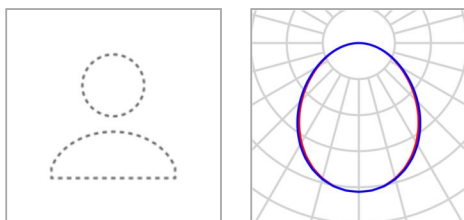
pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 12

## Luminaire layout plan



Building 1 · Story 1 · Klase Mesimi 12

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.362 m / 1.581 m / 2.800 m	1.362 m	1.581 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.726 m	4.089 m	1.581 m	2.800 m	2
		6.815 m	1.580 m	2.800 m	3
Y-direction	2 pcs., Center - center, 3.160 m	1.363 m	4.741 m	2.800 m	4
		4.089 m	4.741 m	2.800 m	5
Arrangement	A1	6.815 m	4.740 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 12

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

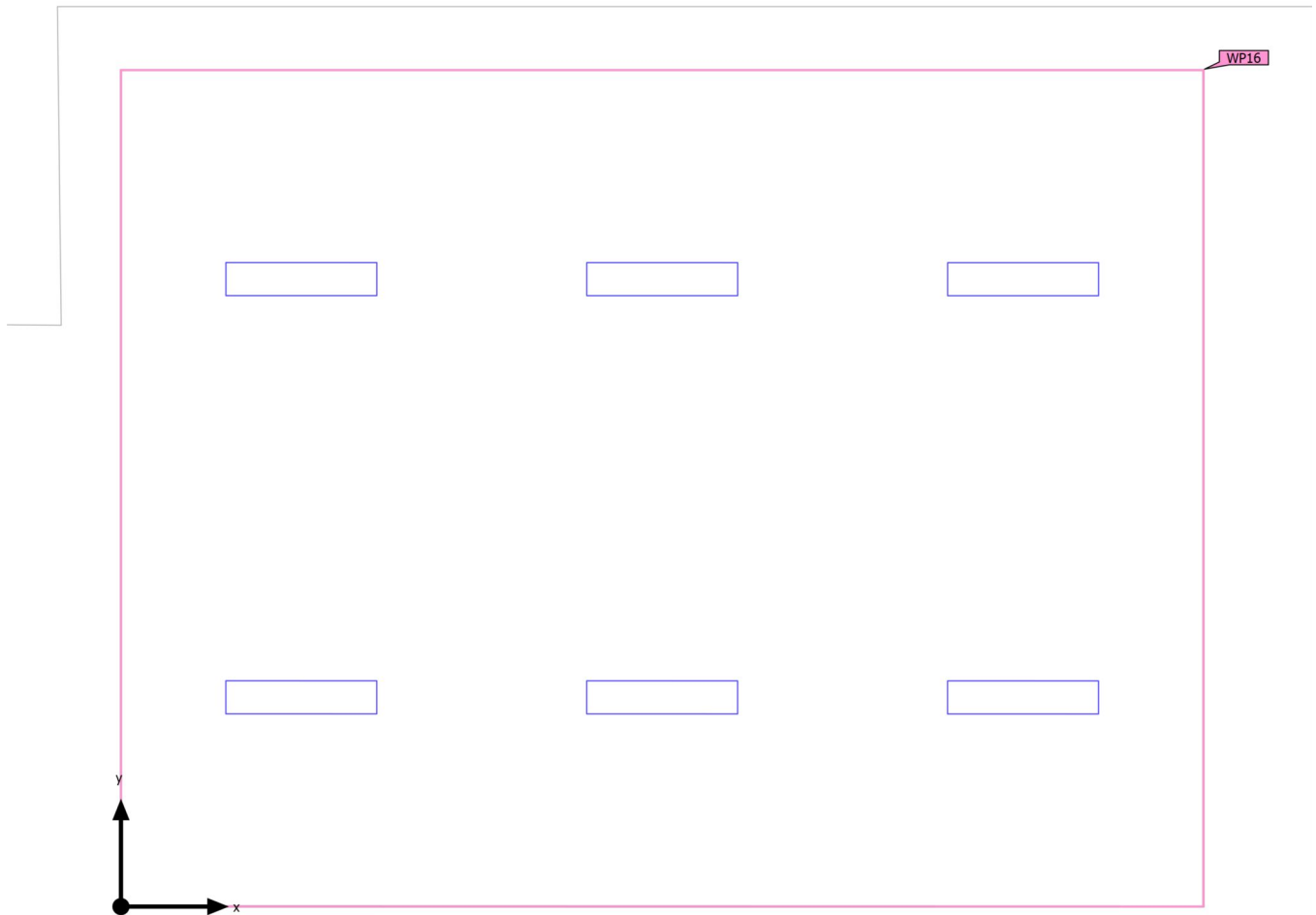
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 12 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 12 (Light scene 1)

**Calculation objects**

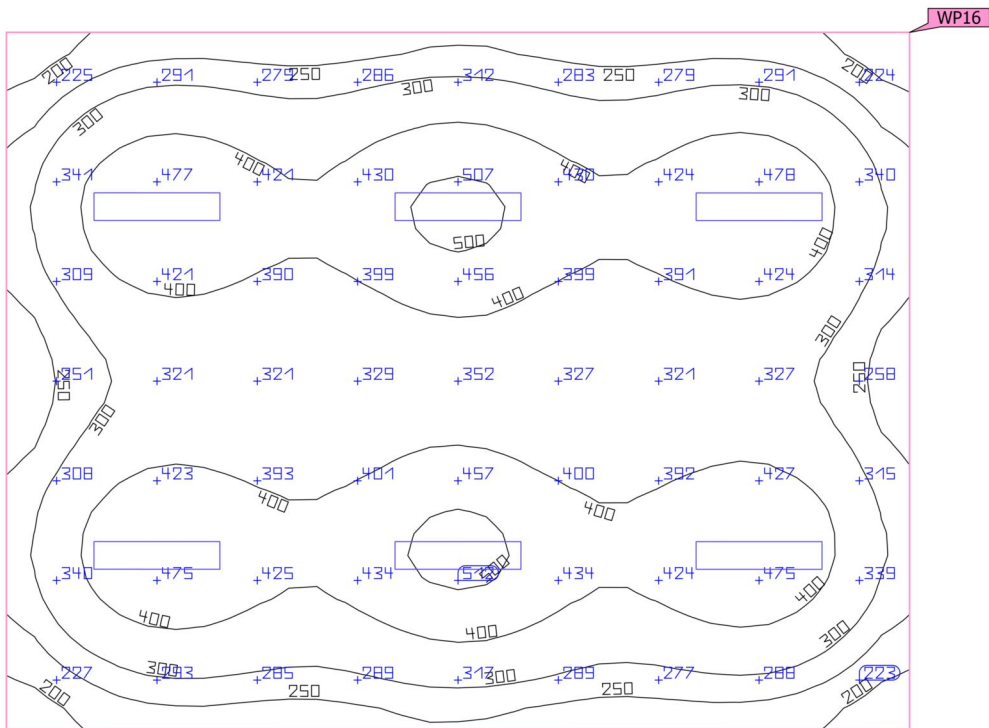
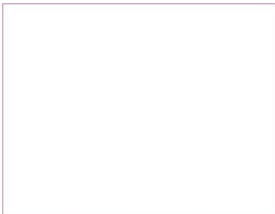
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 12) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	356 lx ( $\geq 300$ lx) ✓	165 lx	522 lx	0.46 ( $\geq 0.40$ ) ✓	0.32	WP16

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

Building 1 · Story 1 · Klase Mesimi 12 (Light scene 1)

Working plane (Klase Mesimi 12)



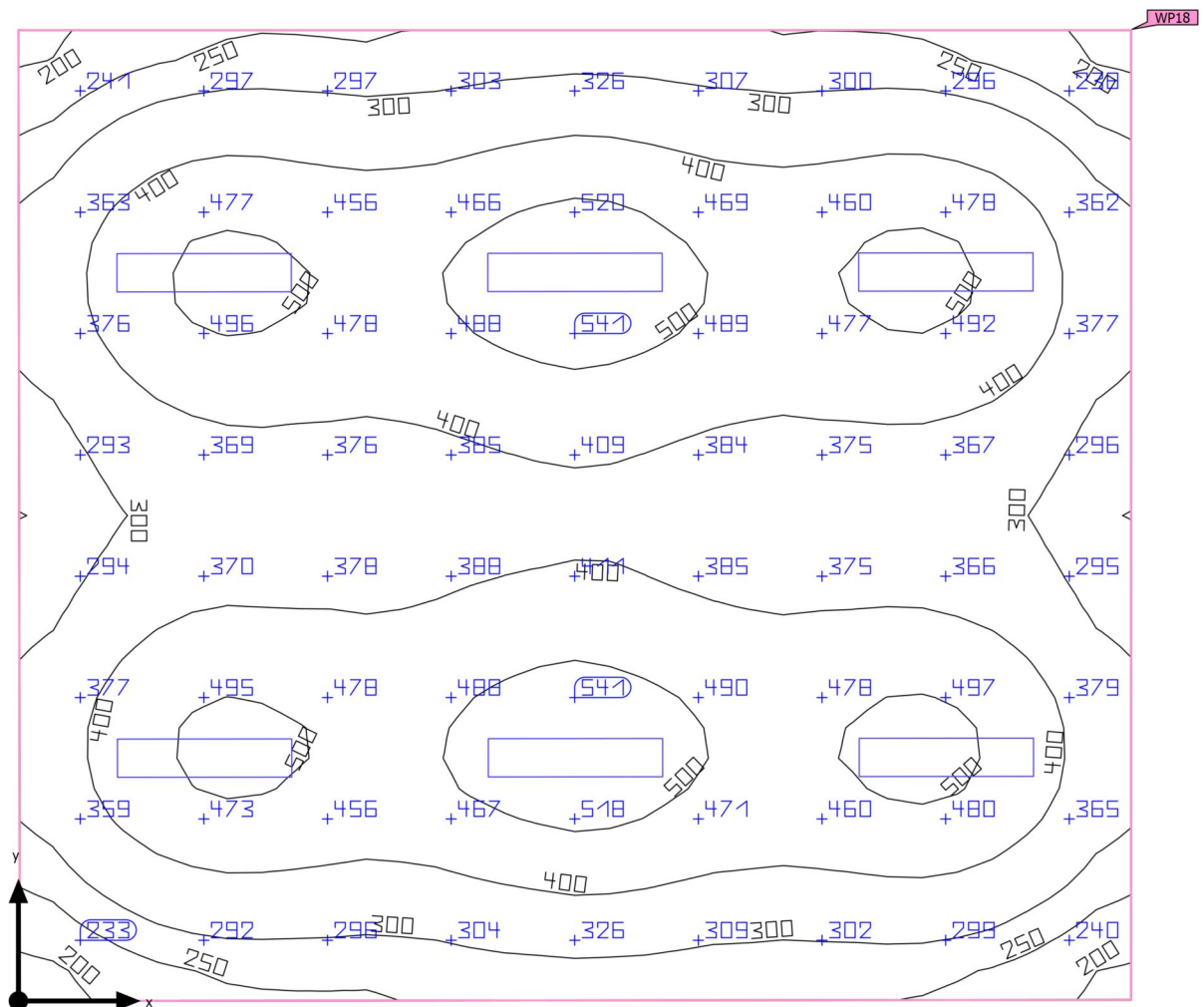
Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 12)	356 lx	165 lx	522 lx	0.46	0.32	WP16
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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



Building 1 · Story 1 · Klase Mesimi 13 (Light scene 1)

## Summary



Ground area	46.14 m <sup>2</sup>	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height <sub>Working plane</sub>	0.800 m
		Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Klase Mesimi 13 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	390 lx	$\geq 300$ lx	✓	WP18
	$g_1$	0.47	$\geq 0.40$	✓	WP18
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1650 kWh/a	✓	
Room	Lighting power density	4.03 W/m <sup>2</sup>	–		
		1.03 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 6.348 m x 7.277 m and SHR of 0.25.

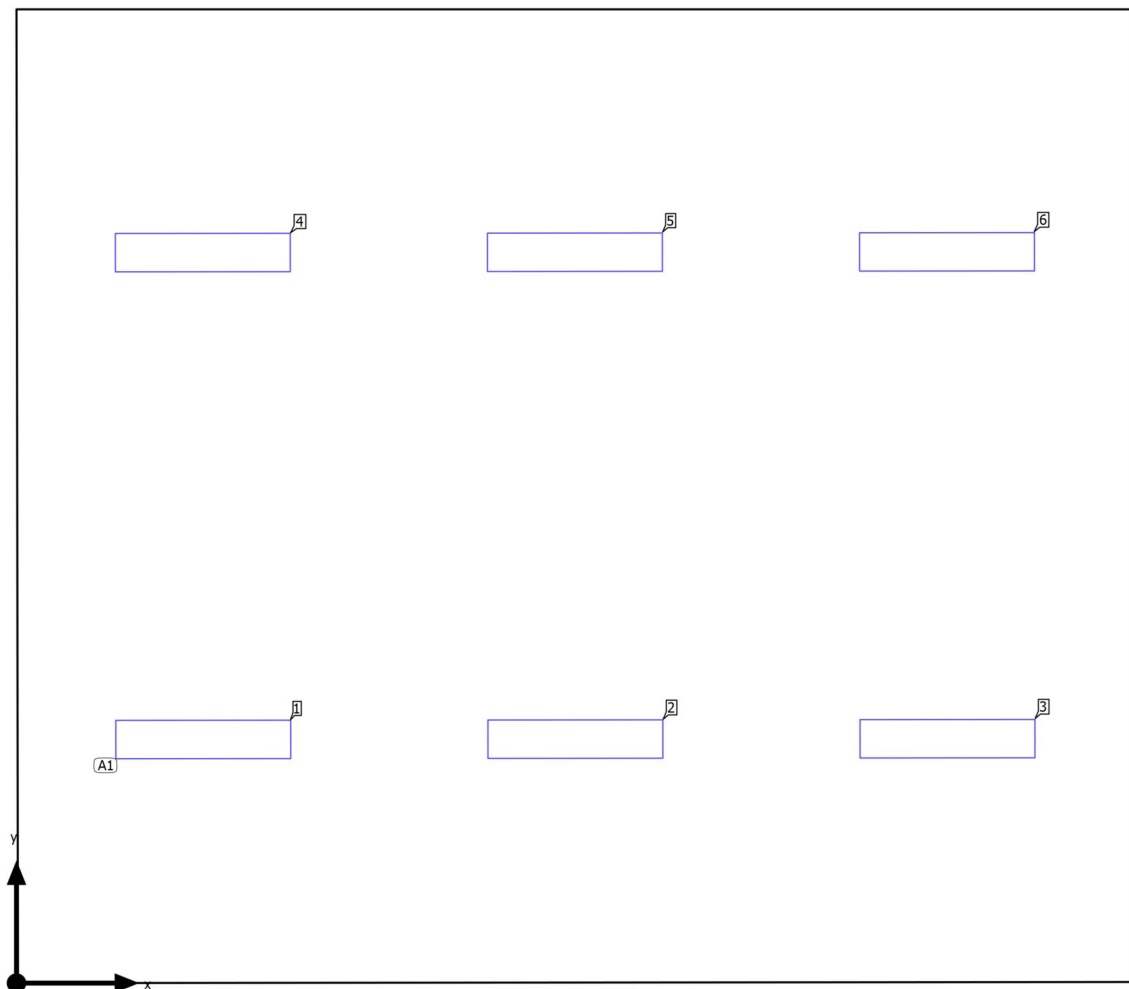
(2) Calculated using DIN:18599-4.

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

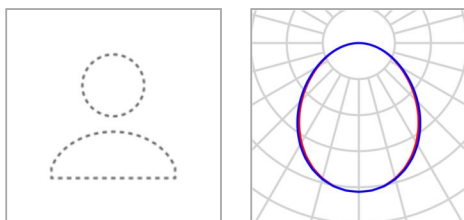
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 13

**Luminaire layout plan**

Building 1 · Story 1 · Klase Mesimi 13

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.218 m / 1.588 m / 2.800 m	1.218 m	1.588 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.426 m	3.643 m	1.591 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.174 m	6.069 m	1.593 m	2.800 m	3
Arrangement	A1	1.214 m	4.763 m	2.800 m	4
		3.640 m	4.765 m	2.800 m	5
		6.066 m	4.767 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 13

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

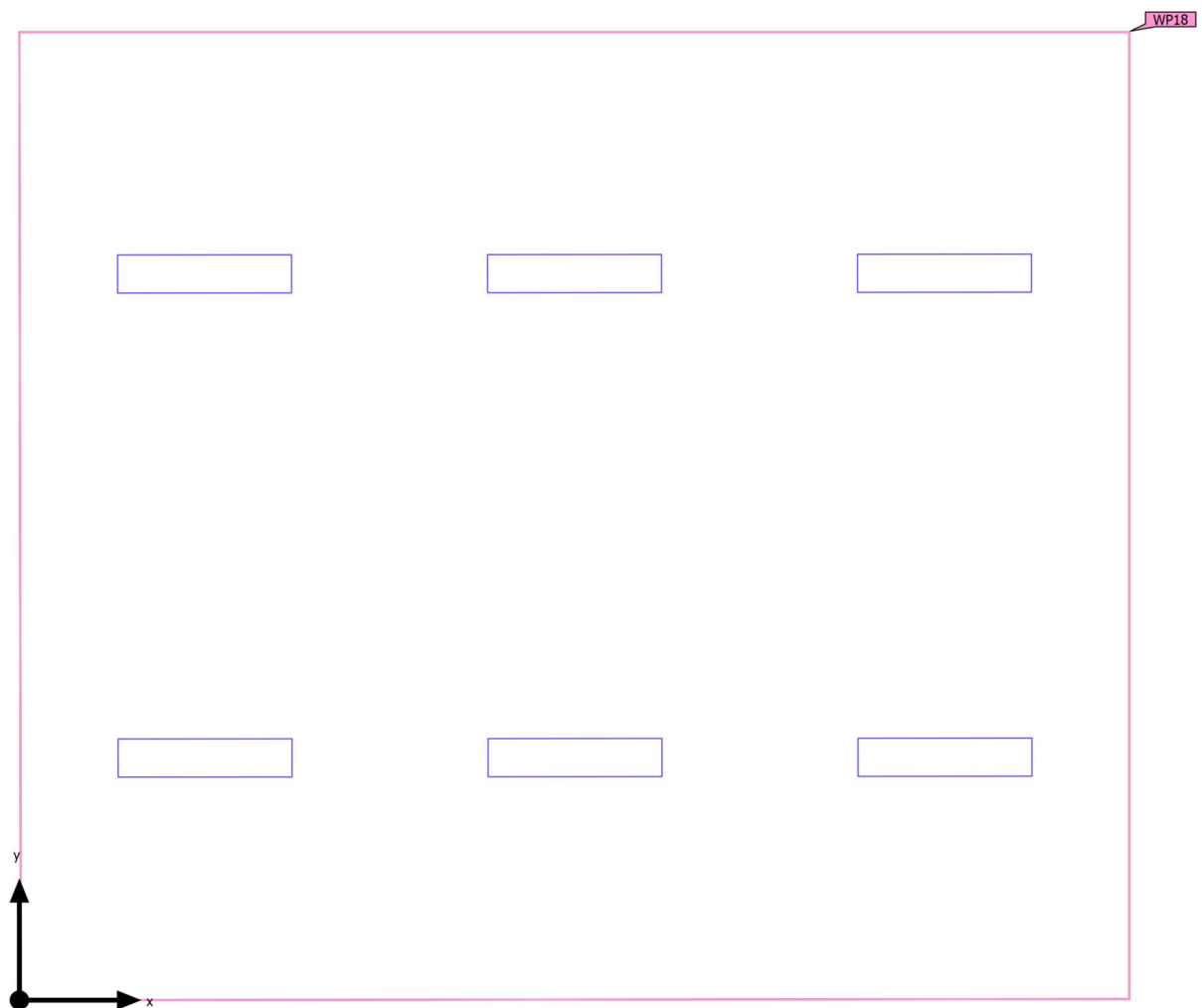
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 13 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 13 (Light scene 1)

**Calculation objects**

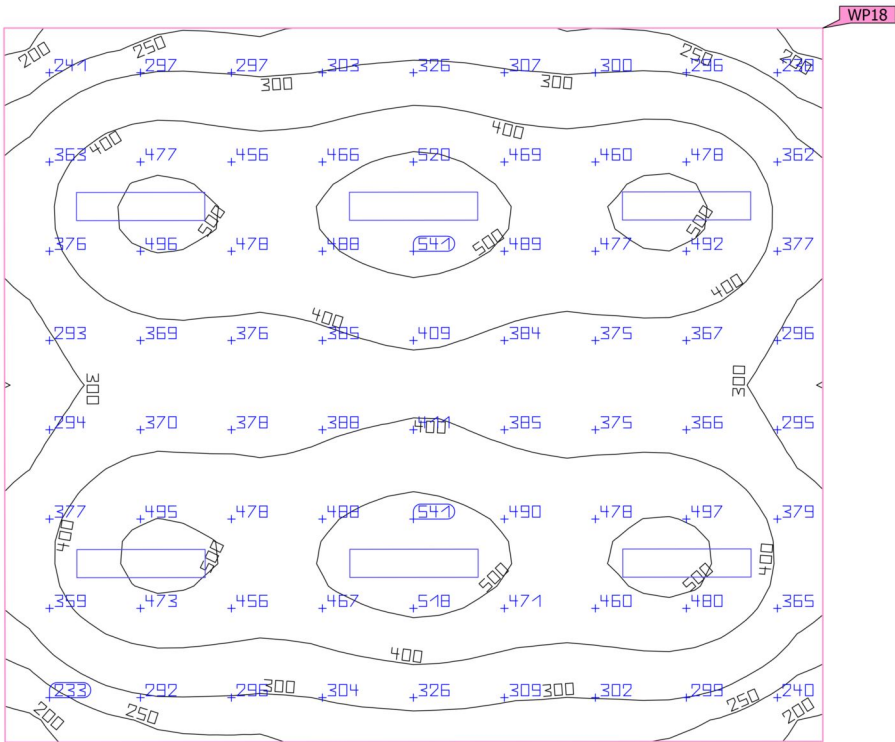
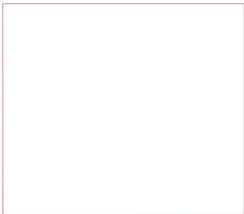
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 13) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	390 lx ( $\geq 300$ lx) ✓	185 lx	558 lx	0.47 ( $\geq 0.40$ ) ✓	0.33	WP18

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

Building 1 · Story 1 · Klase Mesimi 13 (Light scene 1)

Working plane (Klase Mesimi 13)



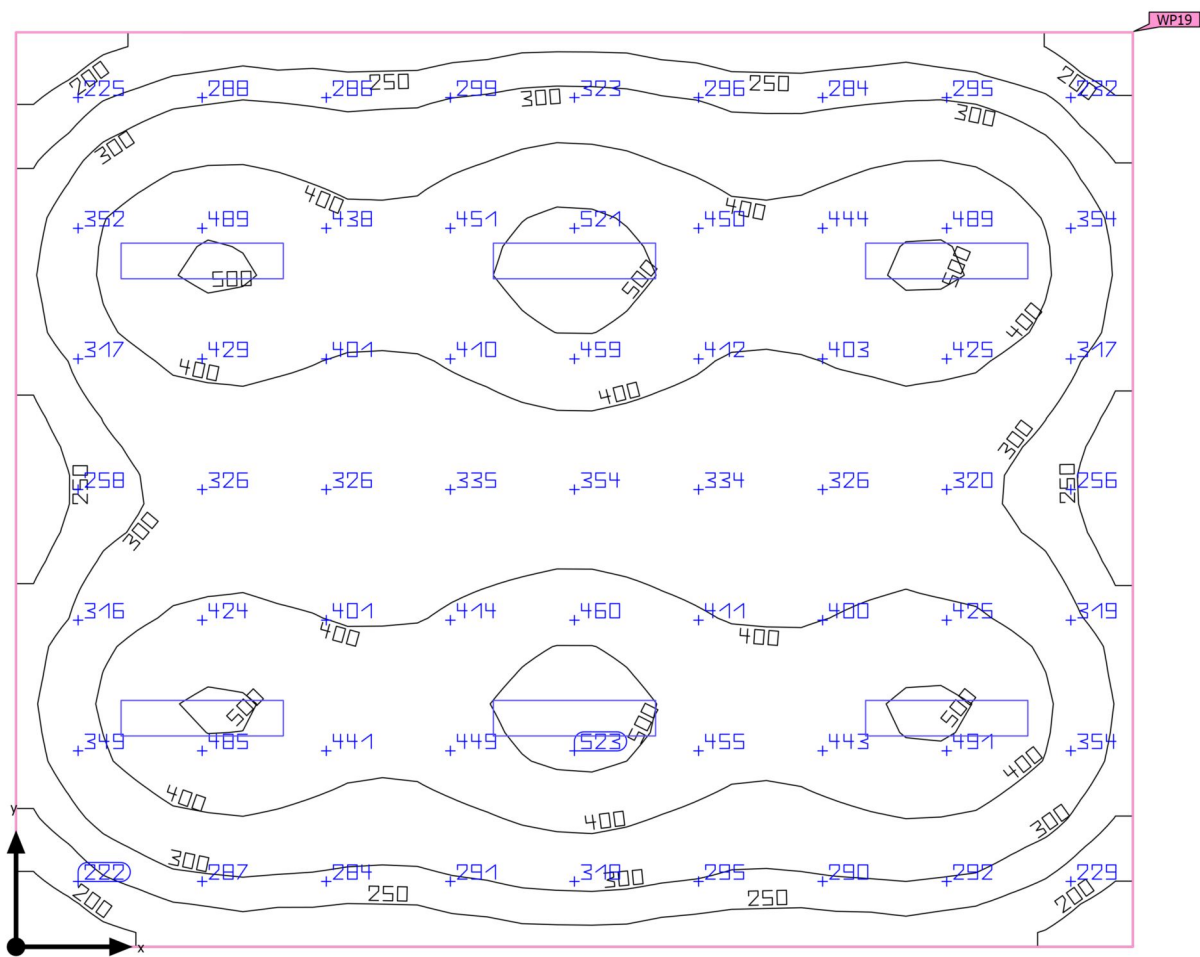
Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 13)	390 lx	185 lx	558 lx	0.47	0.33	WP18
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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



Building 1 · Story 1 · Klase Mesimi 20 (Light scene 1)

Summary



Ground area	50.45 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.800 m
Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Klase Mesimi 20 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	363 lx	$\geq 300$ lx	✓	WP19
	$g_1$	0.44	$\geq 0.40$	✓	WP19
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1800 kWh/a	✓	
Room	Lighting power density	3.69 W/m <sup>2</sup>	–		
		1.01 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 7.848 m x 6.429 m and SHR of 0.25.

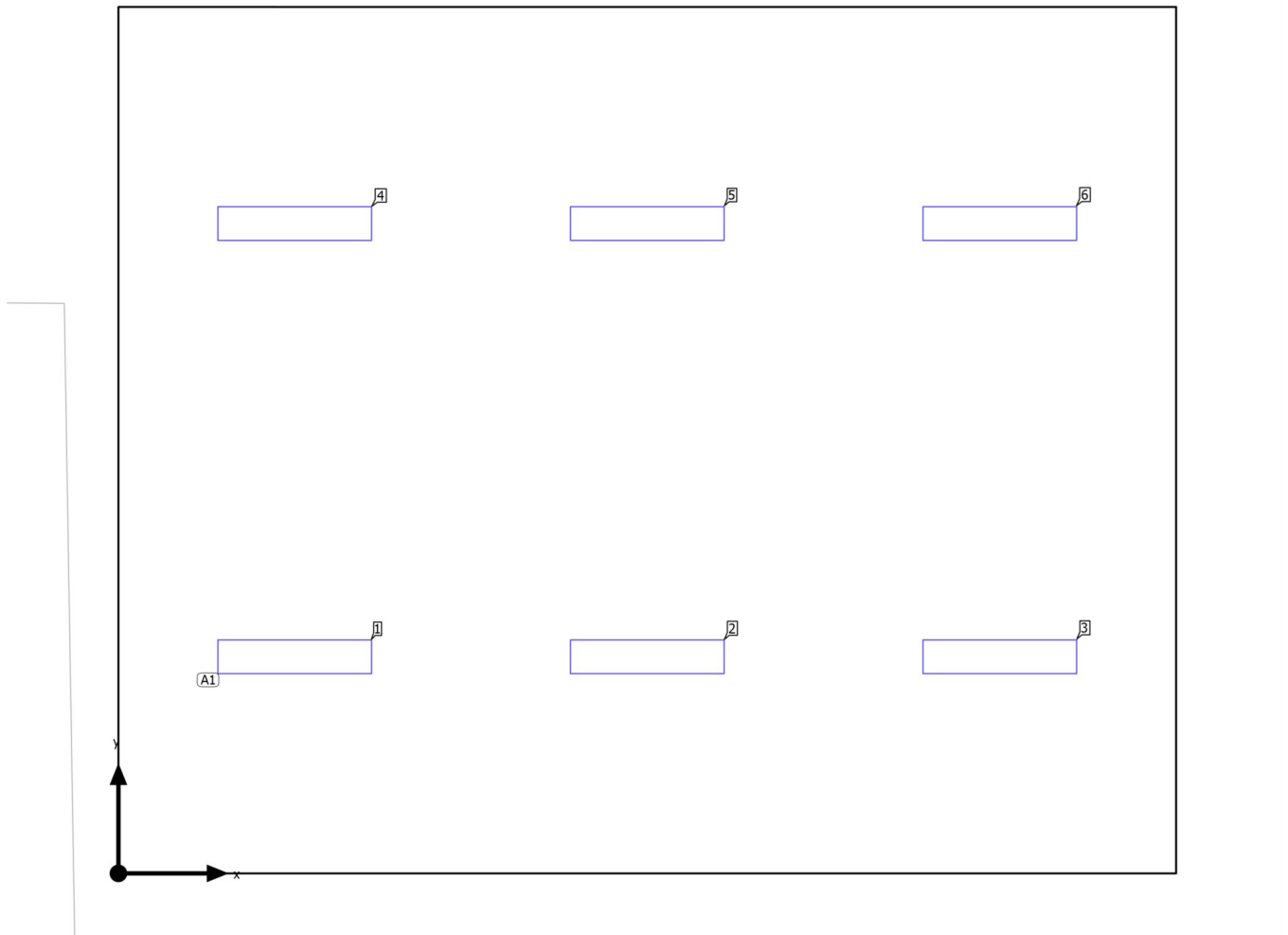
(2) Calculated using DIN:18599-4.

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

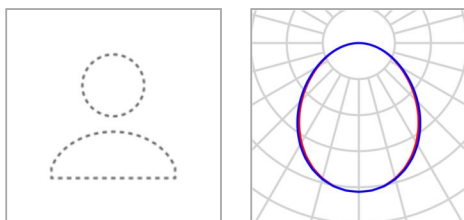
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 20

**Luminaire layout plan**

Building 1 · Story 1 · Klase Mesimi 20

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.308 m / 1.607 m / 2.800 m	1.308 m	1.607 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.616 m	3.924 m	1.607 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.214 m	6.540 m	1.607 m	2.800 m	3
Arrangement	A1	1.308 m	4.821 m	2.800 m	4
		3.924 m	4.821 m	2.800 m	5
		6.540 m	4.821 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 20

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

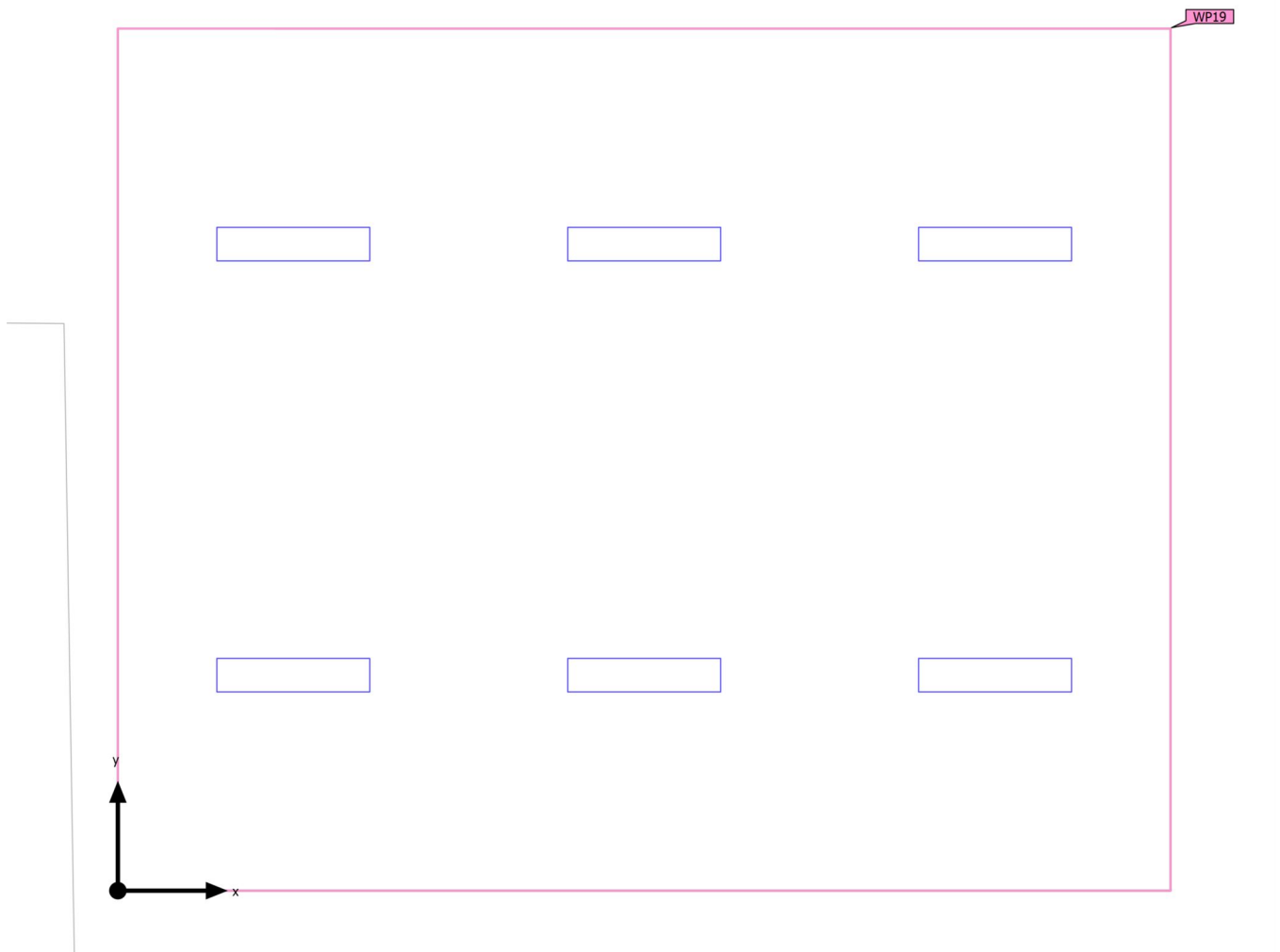
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 20 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 20 (Light scene 1)

**Calculation objects**

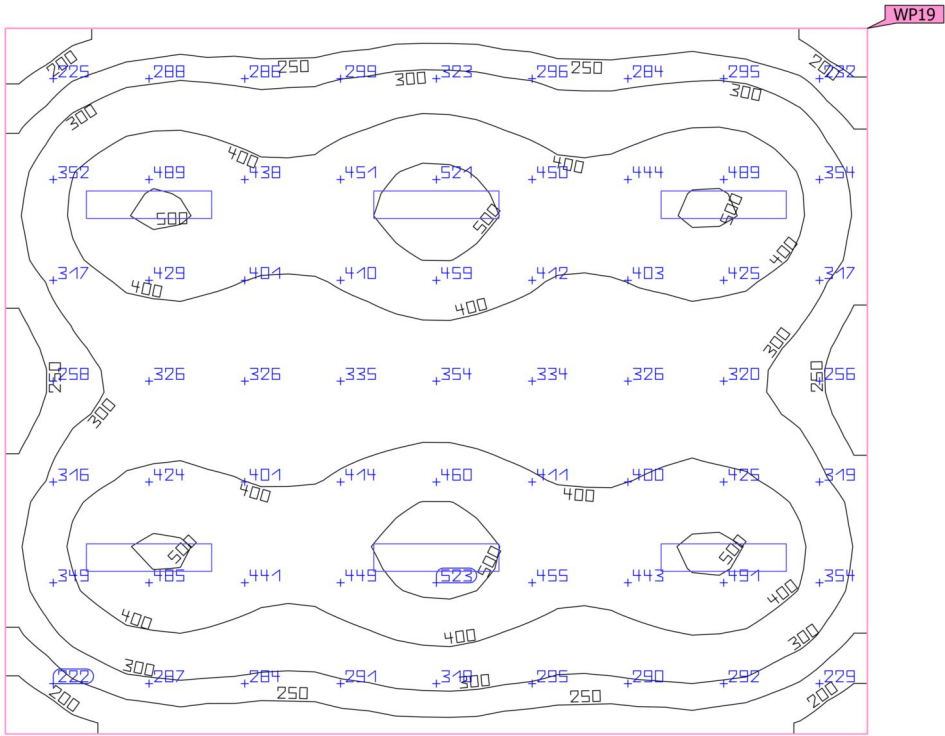
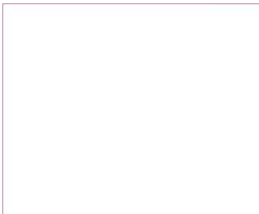
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 20) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	363 lx ( $\geq 300$ lx) ✓	159 lx	542 lx	0.44 ( $\geq 0.40$ ) ✓	0.29	WP19

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

Building 1 · Story 1 · Klase Mesimi 20 (Light scene 1)

Working plane (Klase Mesimi 20)



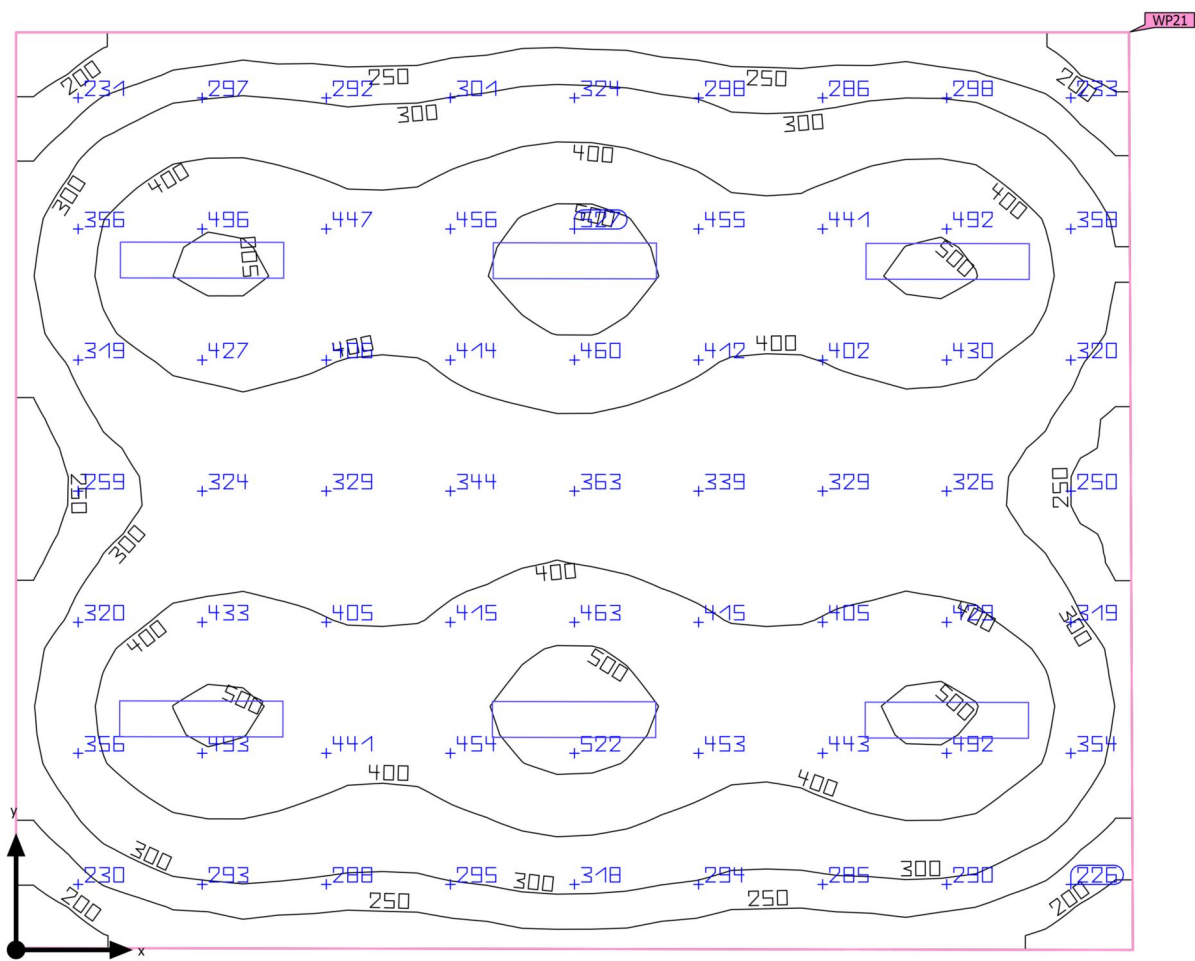
Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 20)	363 lx	159 lx	542 lx	0.44	0.29	WP19
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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



Building 1 · Story 1 · Klase Mesimi 21 (Light scene 1)

Summary



Ground area	49.81 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.800 m
Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Klase Mesimi 21 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	366 lx	$\geq 300$ lx	✓	WP21
	$g_1$	0.45	$\geq 0.40$	✓	WP21
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1750 kWh/a	✓	
Room	Lighting power density	3.73 W/m <sup>2</sup>	–		
		1.02 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 7.809 m x 6.406 m and SHR of 0.25.

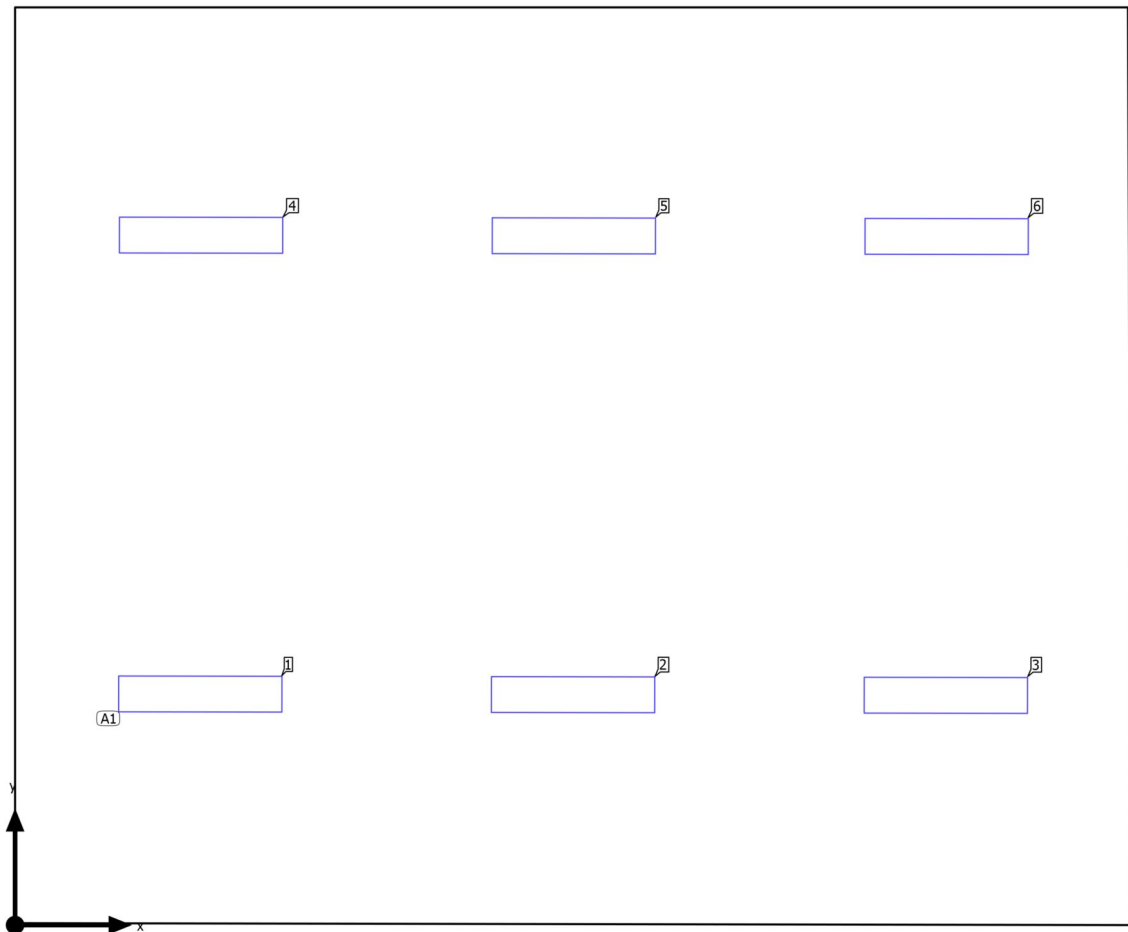
(2) Calculated using DIN:18599-4.

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

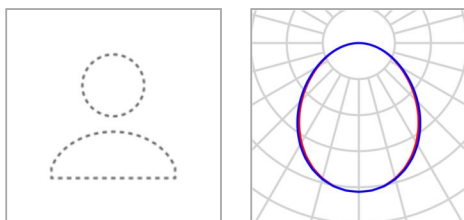
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 21

**Luminaire layout plan**

Building 1 · Story 1 · Klase Mesimi 21

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.293 m / 1.613 m / 2.800 m	1.293 m	1.613 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.603 m	3.896 m	1.608 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.203 m	6.499 m	1.604 m	2.800 m	3
Arrangement	A1	1.299 m	4.816 m	2.800 m	4
		3.902 m	4.811 m	2.800 m	5
		6.505 m	4.807 m	2.800 m	6

Building 1 · Story 1 · Klase Mesimi 21

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

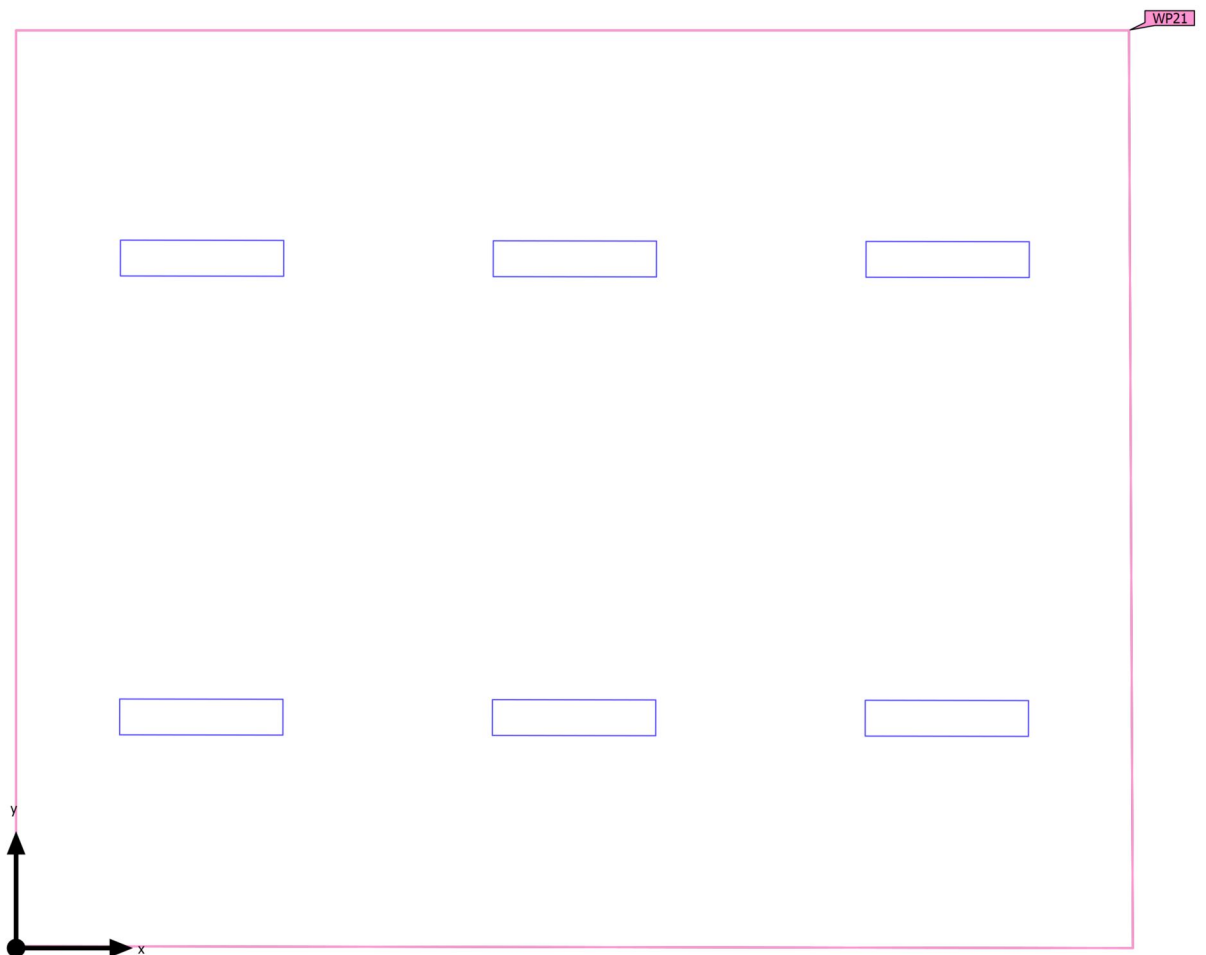
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Klase Mesimi 21 (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase Mesimi 21 (Light scene 1)

**Calculation objects**

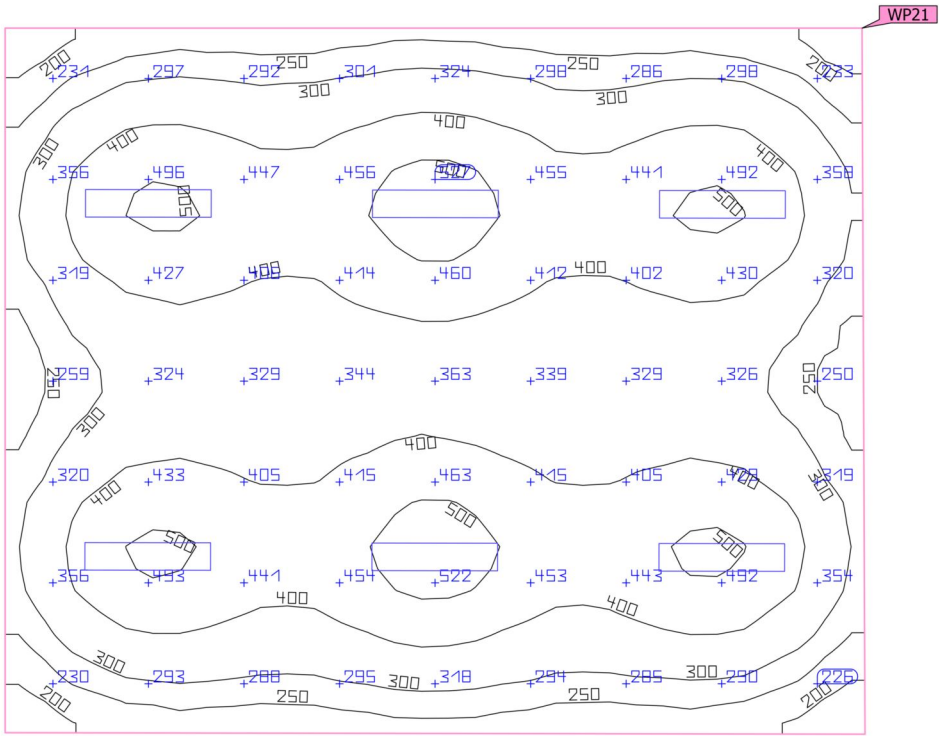
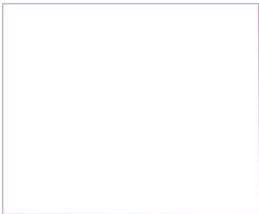
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 21) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	366 lx ( $\geq 300$ lx) ✓	163 lx	545 lx	0.45 ( $\geq 0.40$ ) ✓	0.30	WP21

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

Building 1 · Story 1 · Klase Mesimi 21 (Light scene 1)

Working plane (Klase Mesimi 21)



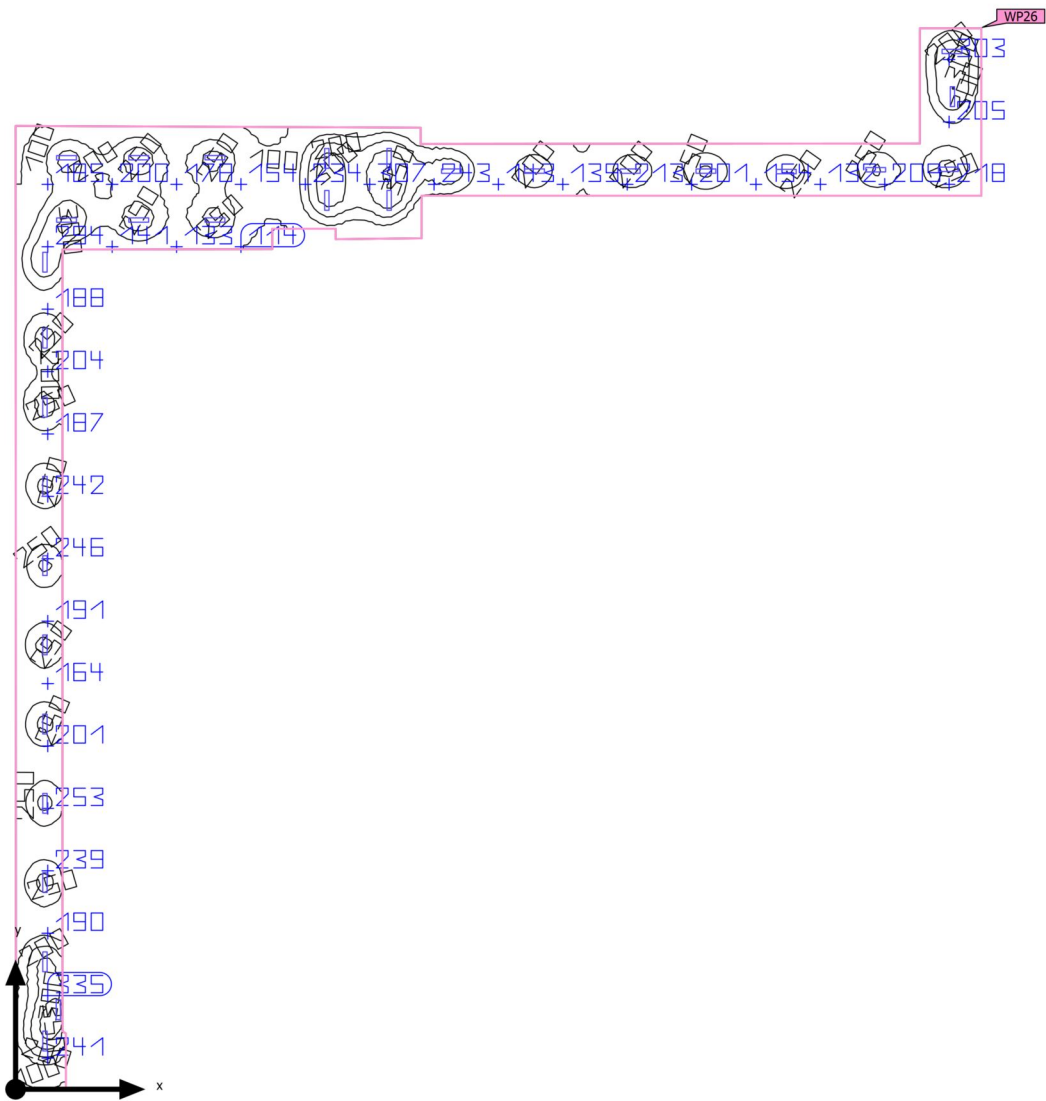
Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Klase Mesimi 21)	366 lx	163 lx	545 lx	0.45	0.30	WP21
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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



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

Summary



Ground area	408.67 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.000 m
Wall zone <sub>Working plane</sub>	0.000 m

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

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	199 lx	$\geq 100$ lx	✓	WP26
	$g_1$	0.30	$\geq 0.20$	✓	WP26
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	22	$\leq 22$	✓	
Consumption values <sup>(2)</sup>	Consumption	1057 kWh/a	max. 14350 kWh/a	✓	
Room	Lighting power density	2.35 W/m <sup>2</sup>	–		
		1.18 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 61.117 m x 55.648 m and SHR of 0.25.

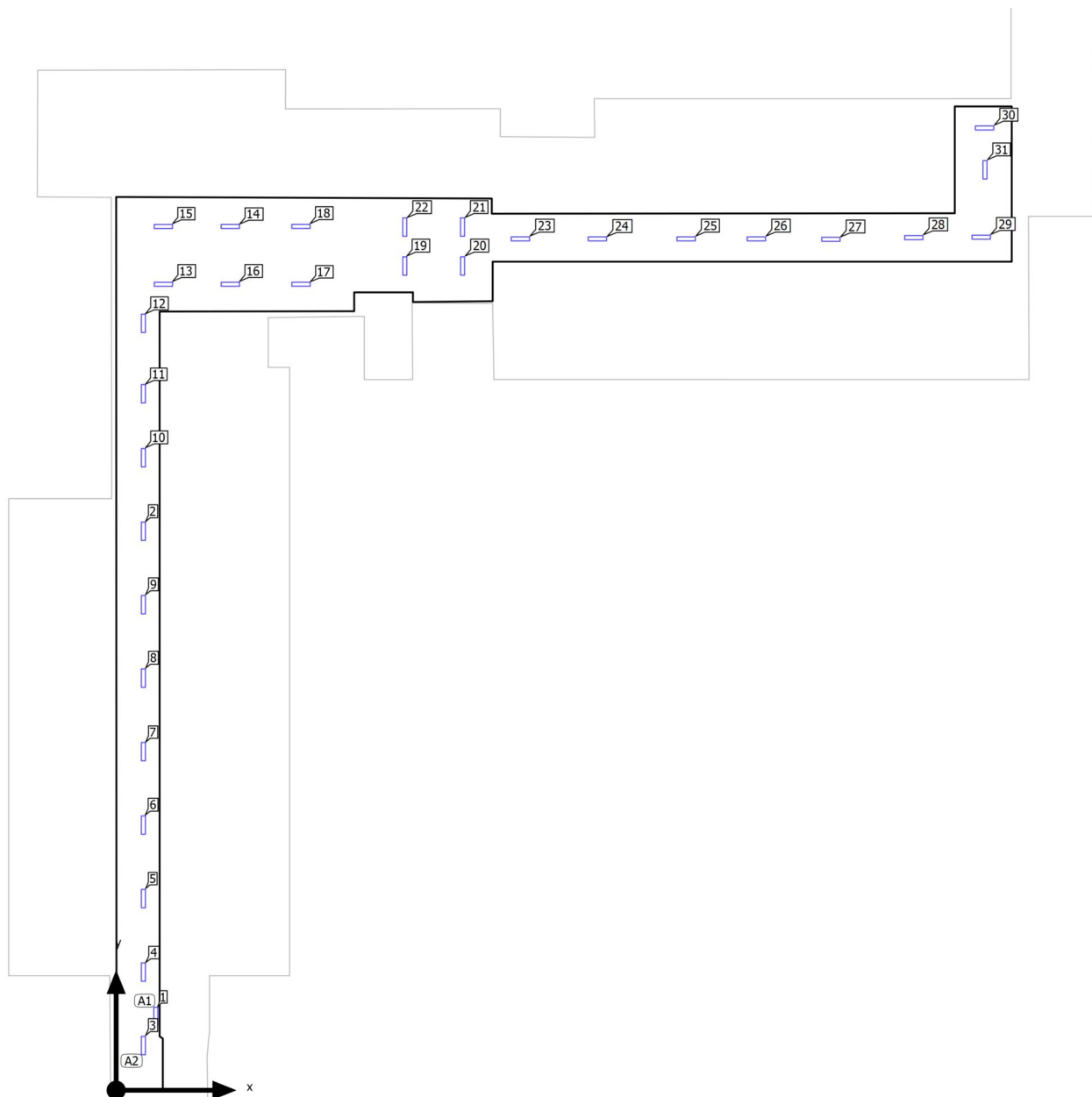
(2) Calculated using DIN:18599-4.

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

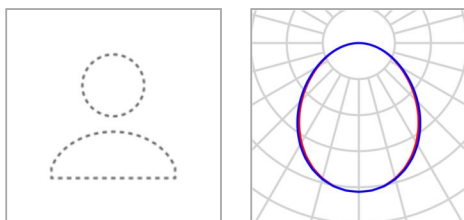
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
31	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	22	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Koridori

**Luminaire layout plan**

Building 1 · Story 1 · Koridori

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

1 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	2.464 m / 4.585 m / 2.800 m	2.464 m	4.585 m	2.800 m	1
X-direction	1 pcs., Center - center, 55.646 m				
Y-direction	1 pcs., Center - center, 61.134 m				
Arrangement	A1				

11 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.690 m / 34.738 m / 2.800 m	1.690 m	34.738 m	2.800 m	2
X-direction	10 pcs., Center - center, Distances not equal	1.690 m	2.779 m	2.800 m	3
		1.690 m	7.344 m	2.800 m	4
		1.690 m	11.910 m	2.800 m	5

Building 1 · Story 1 · Koridori

**Luminaire layout plan**

Y-direction	11 pcs., Center - center, Distances not equal	X	Y	Mounting height	Luminaire
Arrangement	A2	1.690 m	16.476 m	2.800 m	6
		1.690 m	21.041 m	2.800 m	7
		1.690 m	25.607 m	2.800 m	8
		1.690 m	30.173 m	2.800 m	9
		1.690 m	39.304 m	2.800 m	10
		1.690 m	43.279 m	2.800 m	11
		1.690 m	47.657 m	2.800 m	12

## Individual luminaires

X	Y	Mounting height	Luminaire
2.936 m	50.083 m	2.800 m	13
7.091 m	53.676 m	2.800 m	14
2.933 m	53.674 m	2.800 m	15
7.095 m	50.085 m	2.800 m	16
11.487 m	50.087 m	2.800 m	17
11.484 m	53.679 m	2.800 m	18
17.933 m	51.216 m	2.800 m	19
21.525 m	51.219 m	2.800 m	20
21.522 m	53.639 m	2.800 m	21
17.931 m	53.636 m	2.800 m	22
25.114 m	52.904 m	2.800 m	23
29.901 m	52.904 m	2.800 m	24
35.416 m	52.904 m	2.800 m	25
39.779 m	52.904 m	2.800 m	26

Building 1 · Story 1 · Koridori

**Luminaire layout plan**

X	Y	Mounting height	Luminaire
44.409 m	52.878 m	2.800 m	27
49.560 m	52.982 m	2.800 m	28
53.748 m	53.008 m	2.800 m	29
53.956 m	59.798 m	2.800 m	30
53.982 m	57.196 m	2.800 m	31

Building 1 · Story 1 · Koridori

**Luminaire list** $\Phi_{\text{total}}$ 

134819 lm

 $P_{\text{total}}$ 

961.0 W

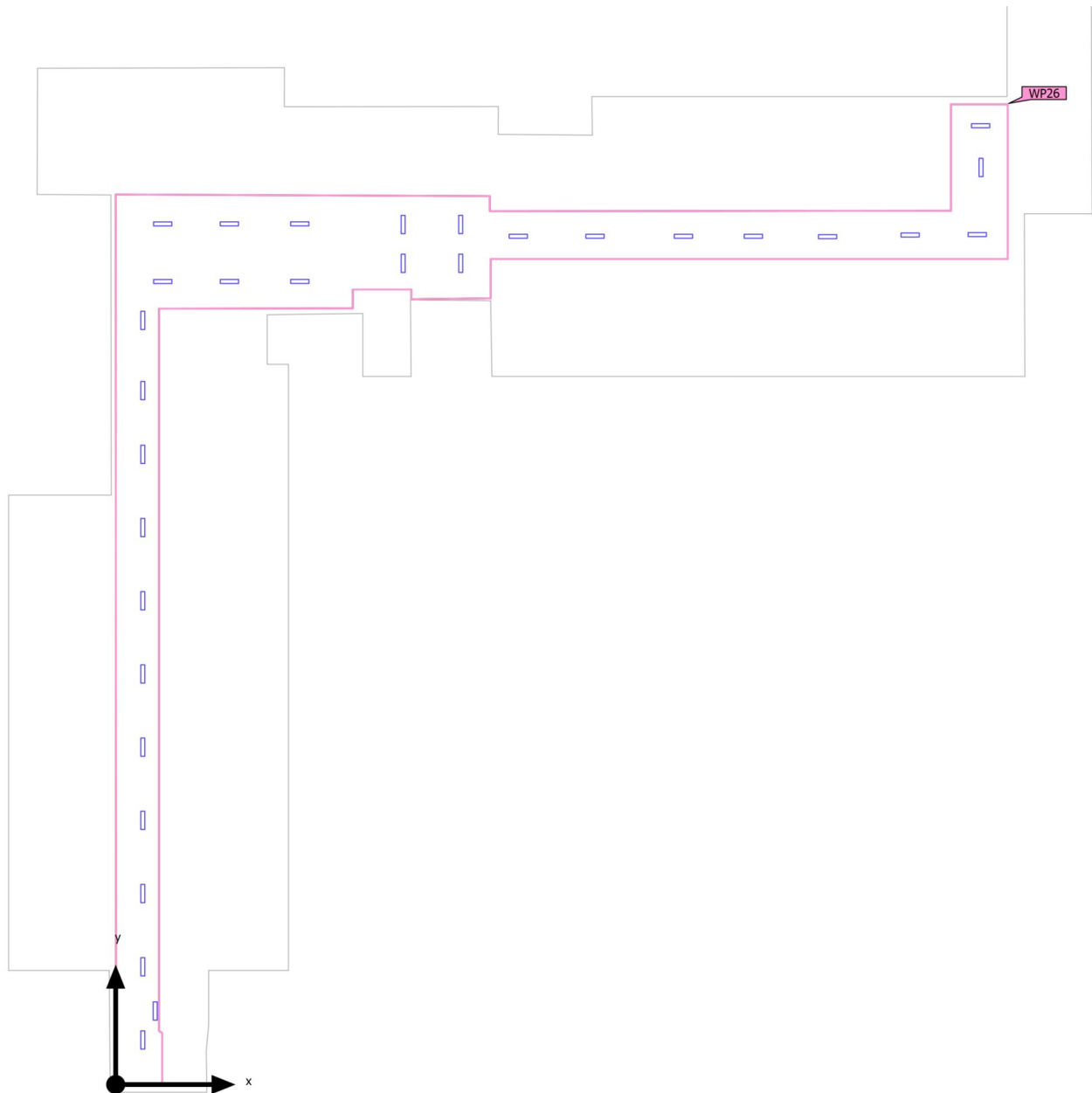
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
31	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

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

## Calculation objects





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

**Calculation objects**

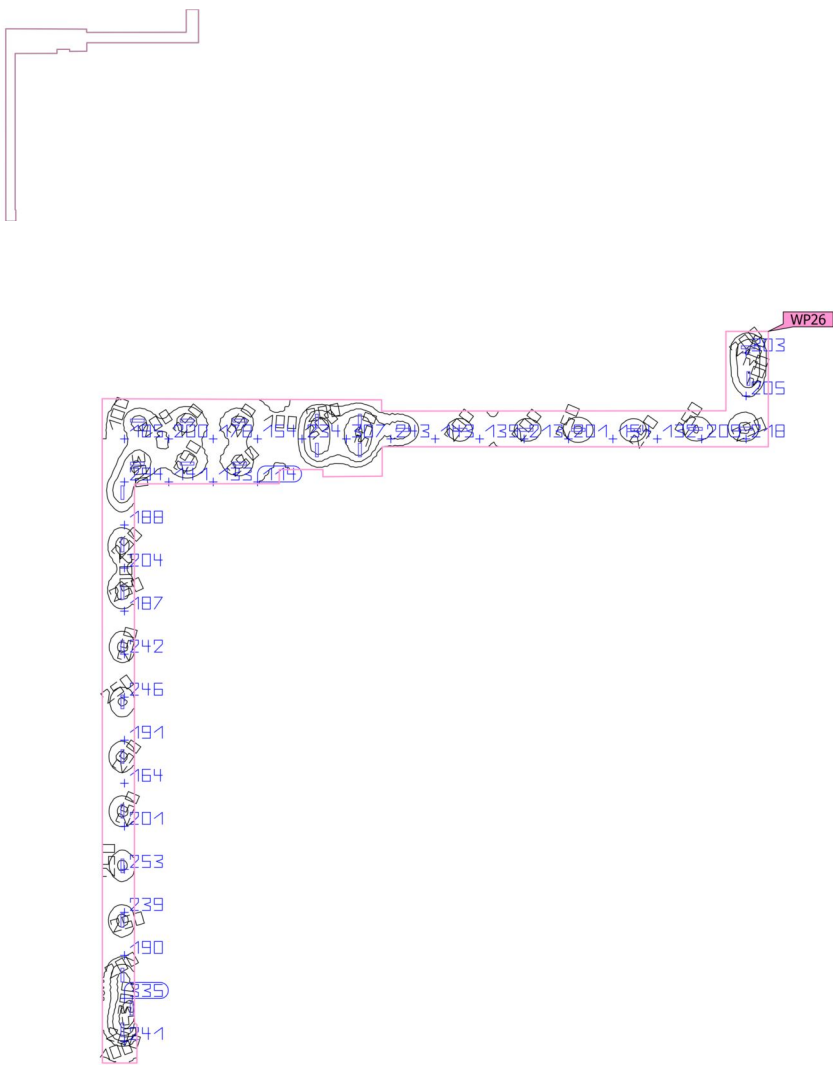
## Working planes

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	199 lx ( $\geq 100$ lx) ✓	59.8 lx	384 lx	0.30 ( $\geq 0.20$ ) ✓	0.16	WP26

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

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

Working plane (Koridori)

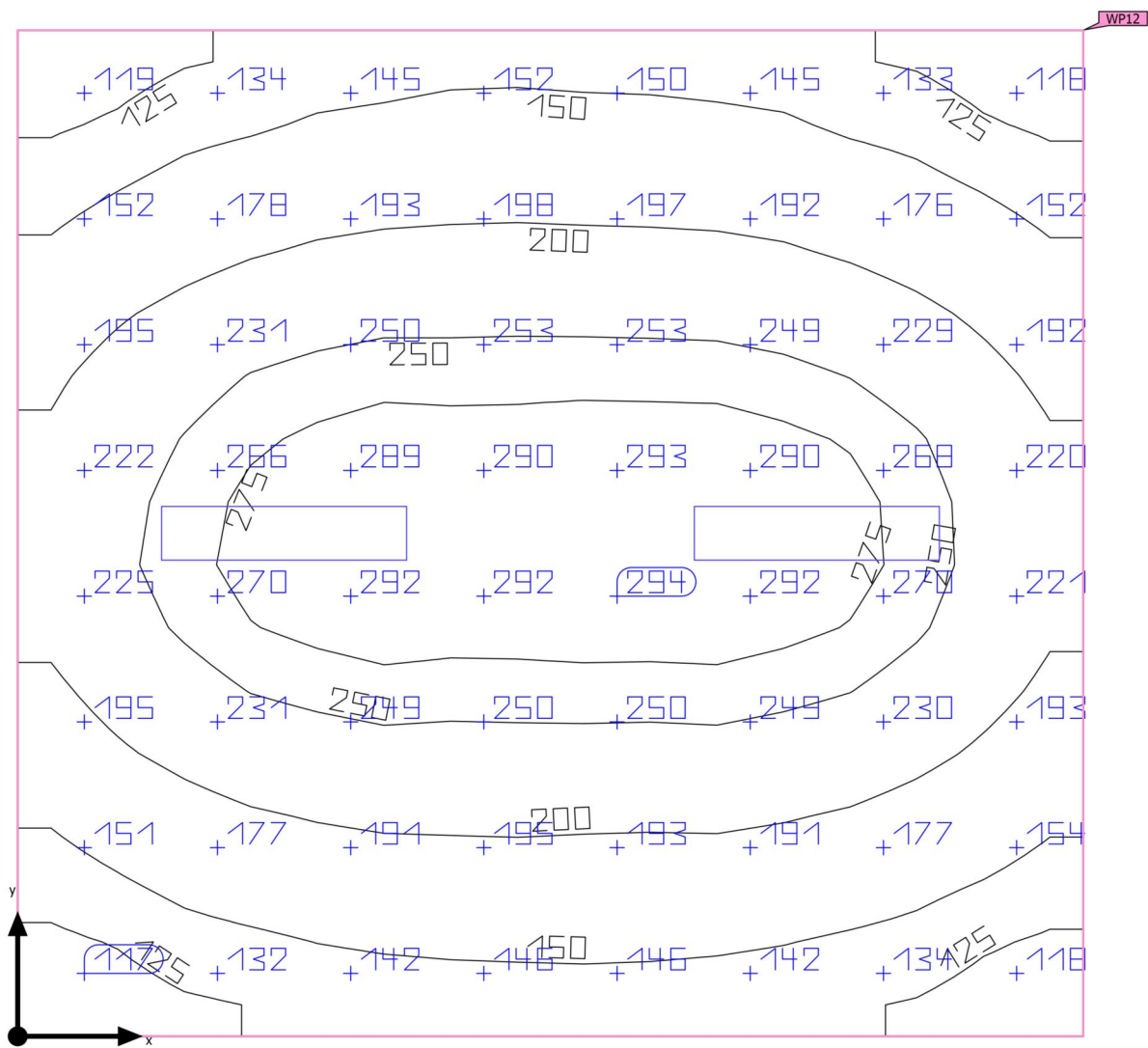


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Koridori)	199 lx	59.8 lx	384 lx	0.30	0.16	WP26
Perpendicular illuminance (adaptive)	$\geq 100$ lx			$\geq 0.20$		
Height: 0.000 m, Wall zone: 0.000 m	✓			✓		

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

Building 1 · Story 1 · Room 12 (Light scene 1)

Summary



Ground area	23.19 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.000 m
Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Room 12 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	204 lx	$\geq 100$ lx	✓	WP12
	$g_1$	0.53	$\geq 0.40$	✓	WP12
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	18	$\leq 22$	✓	
Consumption values <sup>(2)</sup>	Consumption	68.2 kWh/a	max. 850 kWh/a	✓	
Room	Lighting power density	2.67 W/m <sup>2</sup>	–		
		1.31 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 4.956 m x 4.679 m and SHR of 0.25.

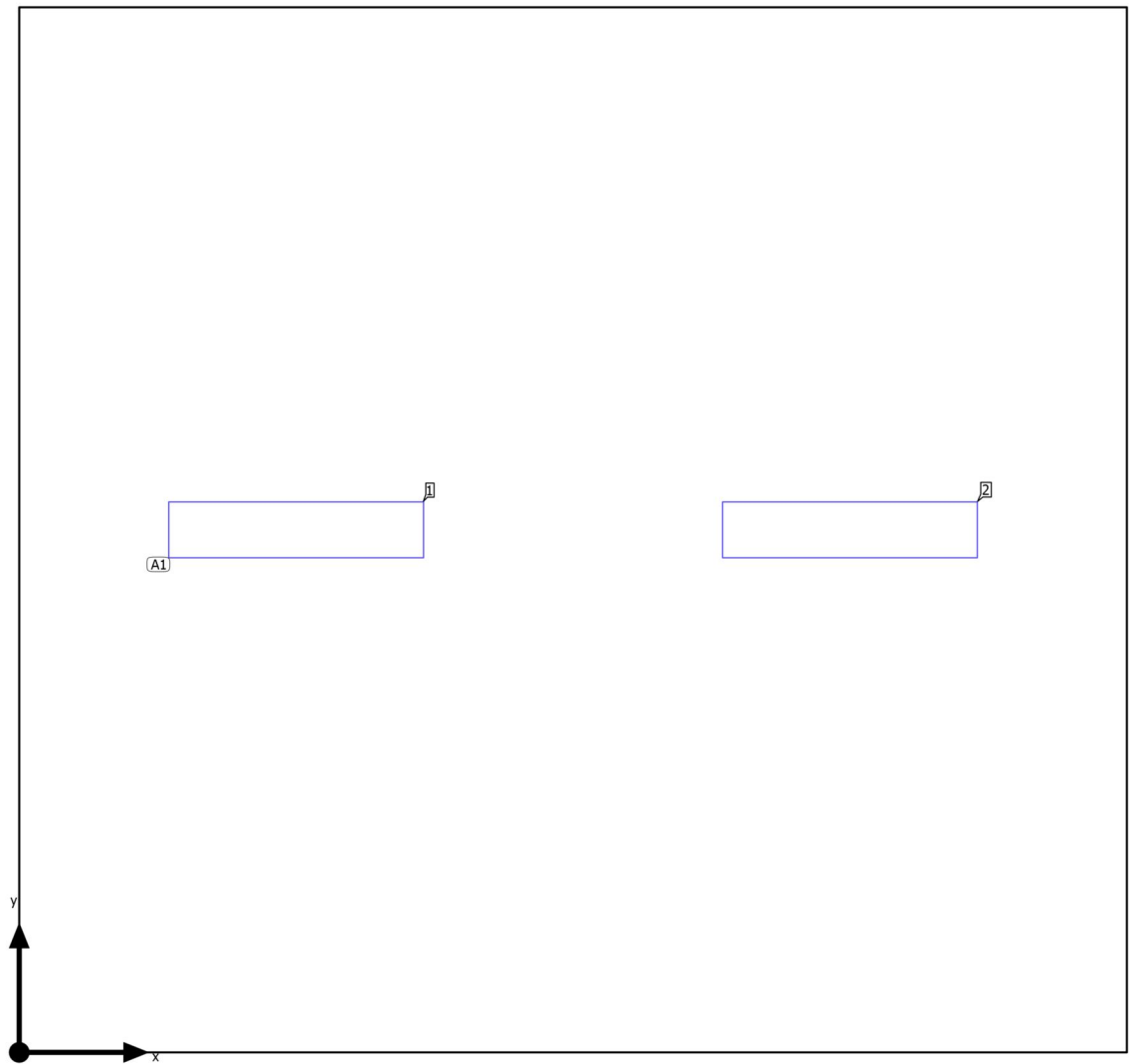
(2) Calculated using DIN:18599-4.

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

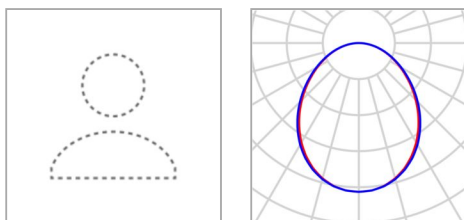
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
2	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	18	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 12

**Luminaire layout plan**

Building 1 · Story 1 · Room 12

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

2 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.239 m / 2.339 m / 2.800 m	1.239 m	2.339 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.478 m	3.717 m	2.339 m	2.800 m	2
Y-direction	1 pcs., Center - center, 4.679 m				
Arrangement	A1				

Building 1 · Story 1 · Room 12

**Luminaire list** $\Phi_{\text{total}}$ 

8698 lm

 $P_{\text{total}}$ 

62.0 W

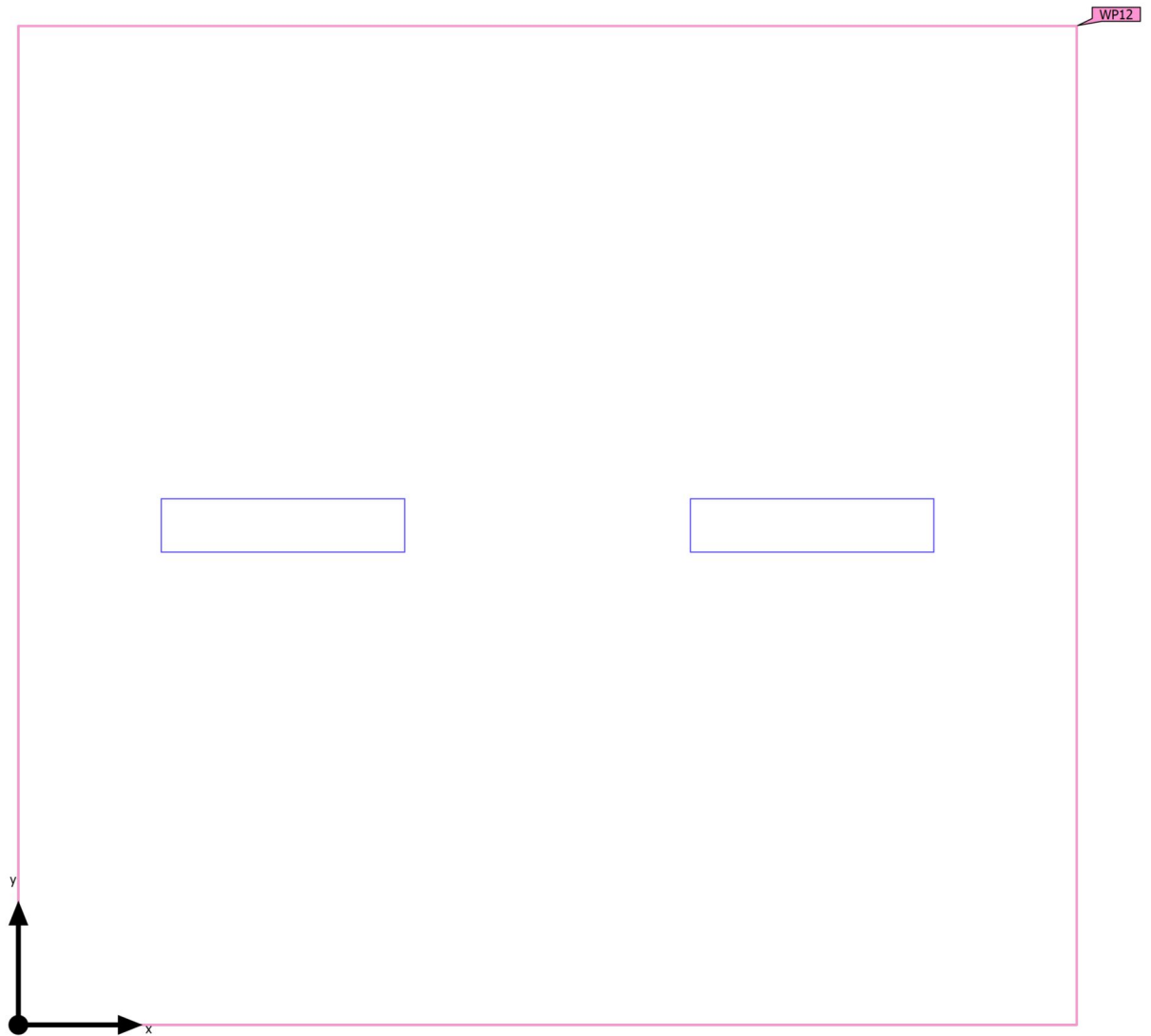
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
2	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 12 (Light scene 1)

## Calculation objects





Building 1 · Story 1 · Room 12 (Light scene 1)

**Calculation objects**

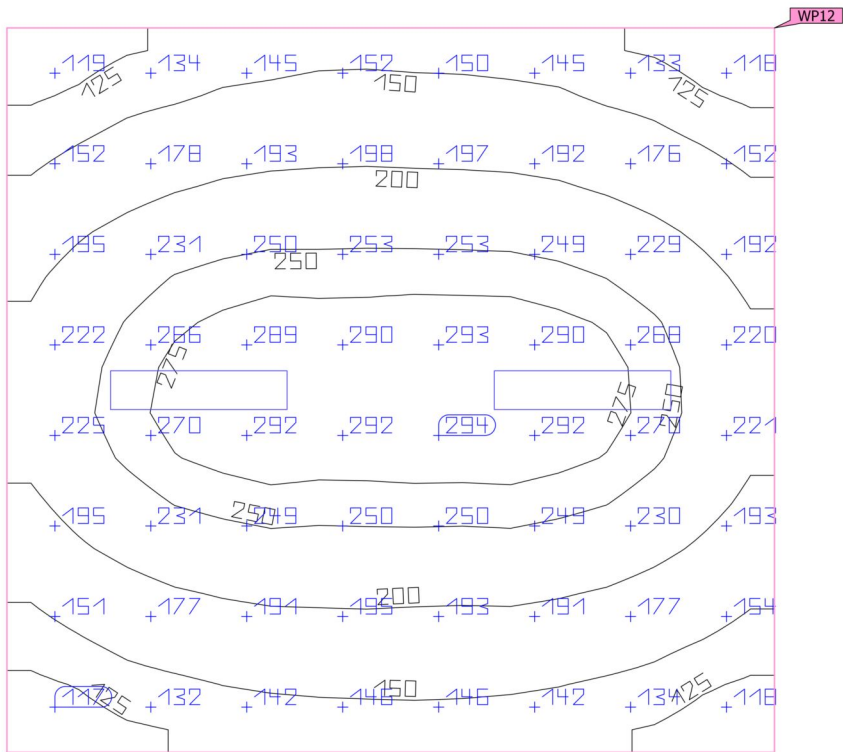
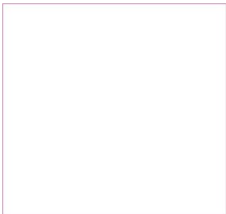
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 12) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	204 lx ( $\geq 100$ lx) ✓	108 lx	300 lx	0.53 ( $\geq 0.40$ ) ✓	0.36	WP12

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

Building 1 · Story 1 · Room 12 (Light scene 1)

Working plane (Room 12)

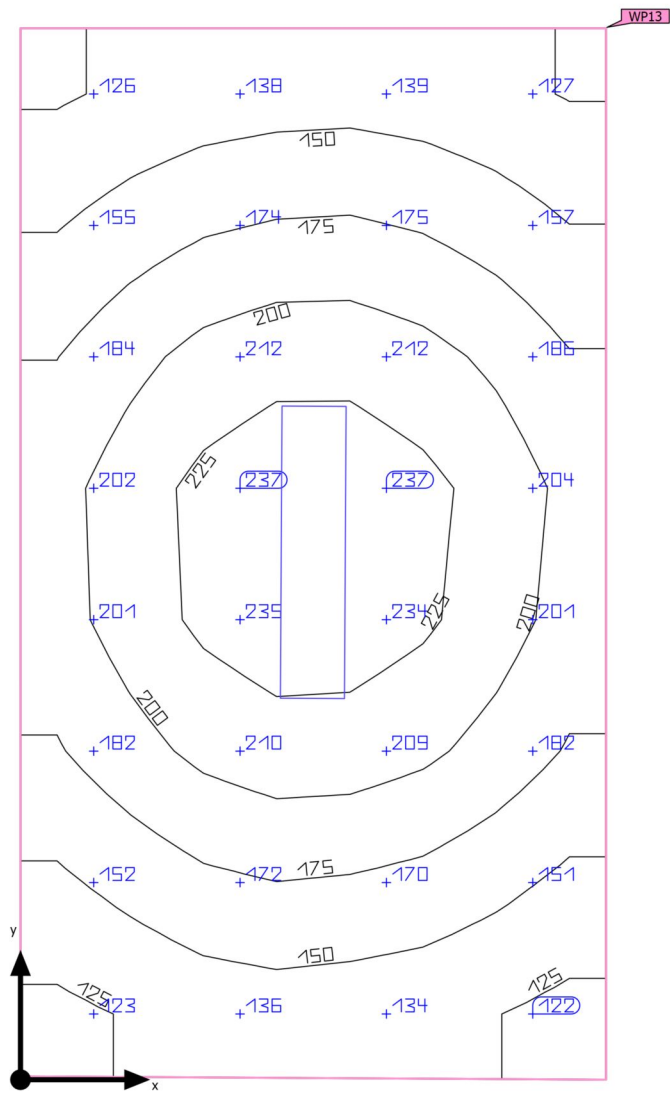


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 12)	204 lx	108 lx	300 lx	0.53	0.36	WP12
Perpendicular illuminance (adaptive)	(≥ 100 lx)			(≥ 0.40)		
Height: 0.000 m, Wall zone: 0.000 m	✓			✓		

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

Building 1 · Story 1 · Room 13 (Light scene 1)

Summary



Ground area	9.36 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.000 m
Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Room 13 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	177 lx	$\geq 100$ lx	✓	WP13
	$g_1$	0.67	$\geq 0.20$	✓	WP13
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	18	$\leq 22$	✓	
Consumption values <sup>(2)</sup>	Consumption	34.1 kWh/a	max. 350 kWh/a	✓	
Room	Lighting power density	3.31 W/m <sup>2</sup>	–		
		1.87 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 4.103 m x 2.285 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

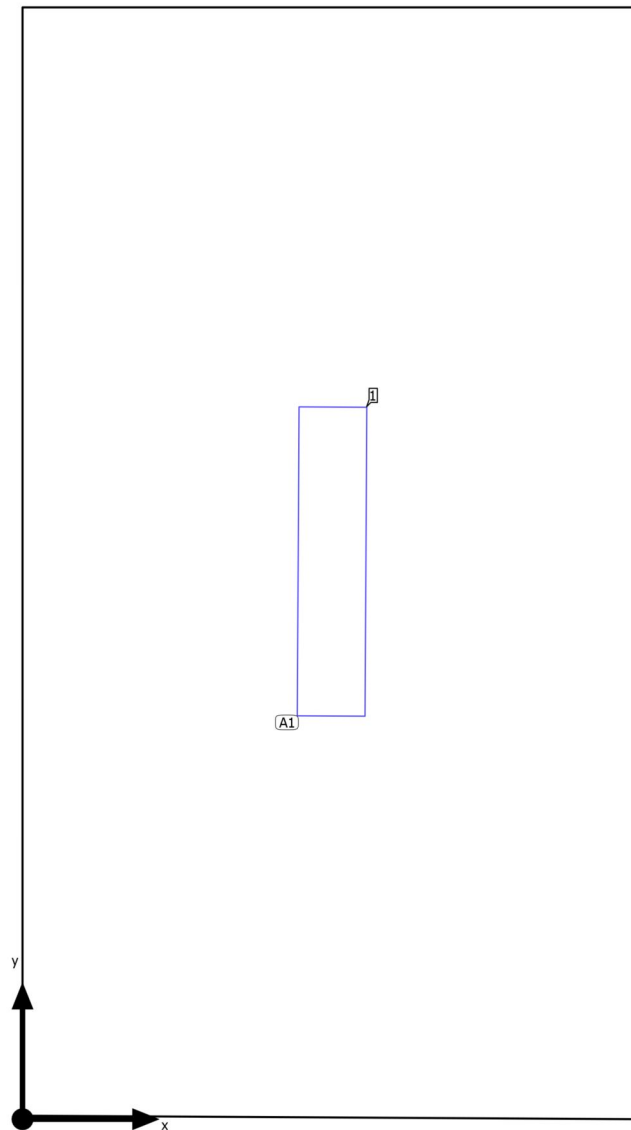
Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

### Luminaire list

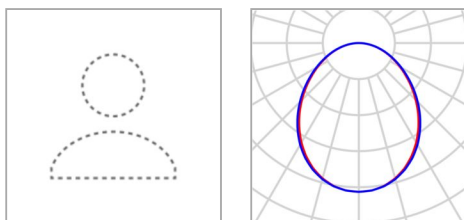
pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
1	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	18	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 13

## Luminaire layout plan



Building 1 · Story 1 · Room 13

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

1 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.142 m / 2.058 m / 2.800 m	1.142 m	2.058 m	2.800 m	1
X-direction	1 pcs., Center - center, 2.308 m				
Y-direction	1 pcs., Center - center, 4.103 m				
Arrangement	A1				

Building 1 · Story 1 · Room 13

**Luminaire list** $\Phi_{\text{total}}$ 

4349 lm

 $P_{\text{total}}$ 

31.0 W

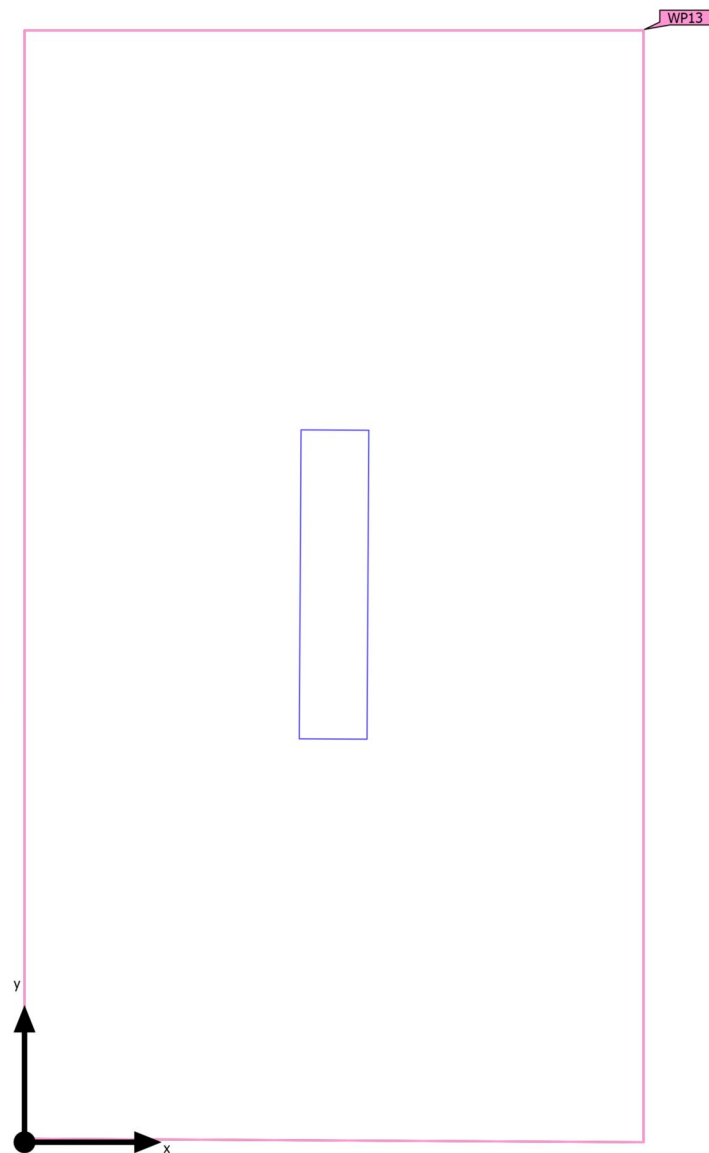
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
1	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 13 (Light scene 1)

## Calculation objects





Building 1 · Story 1 · Room 13 (Light scene 1)

**Calculation objects**

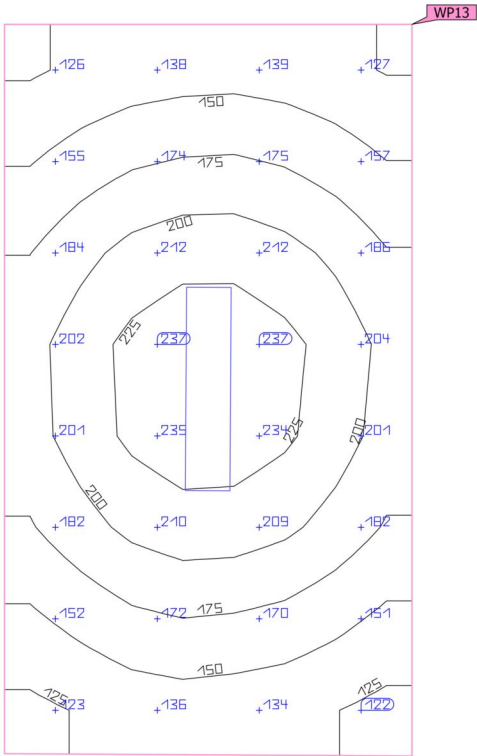
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 13) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	177 lx ( $\geq 100$ lx) ✓	118 lx	241 lx	0.67 ( $\geq 0.20$ ) ✓	0.49	WP13

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

Building 1 · Story 1 · Room 13 (Light scene 1)

Working plane (Room 13)

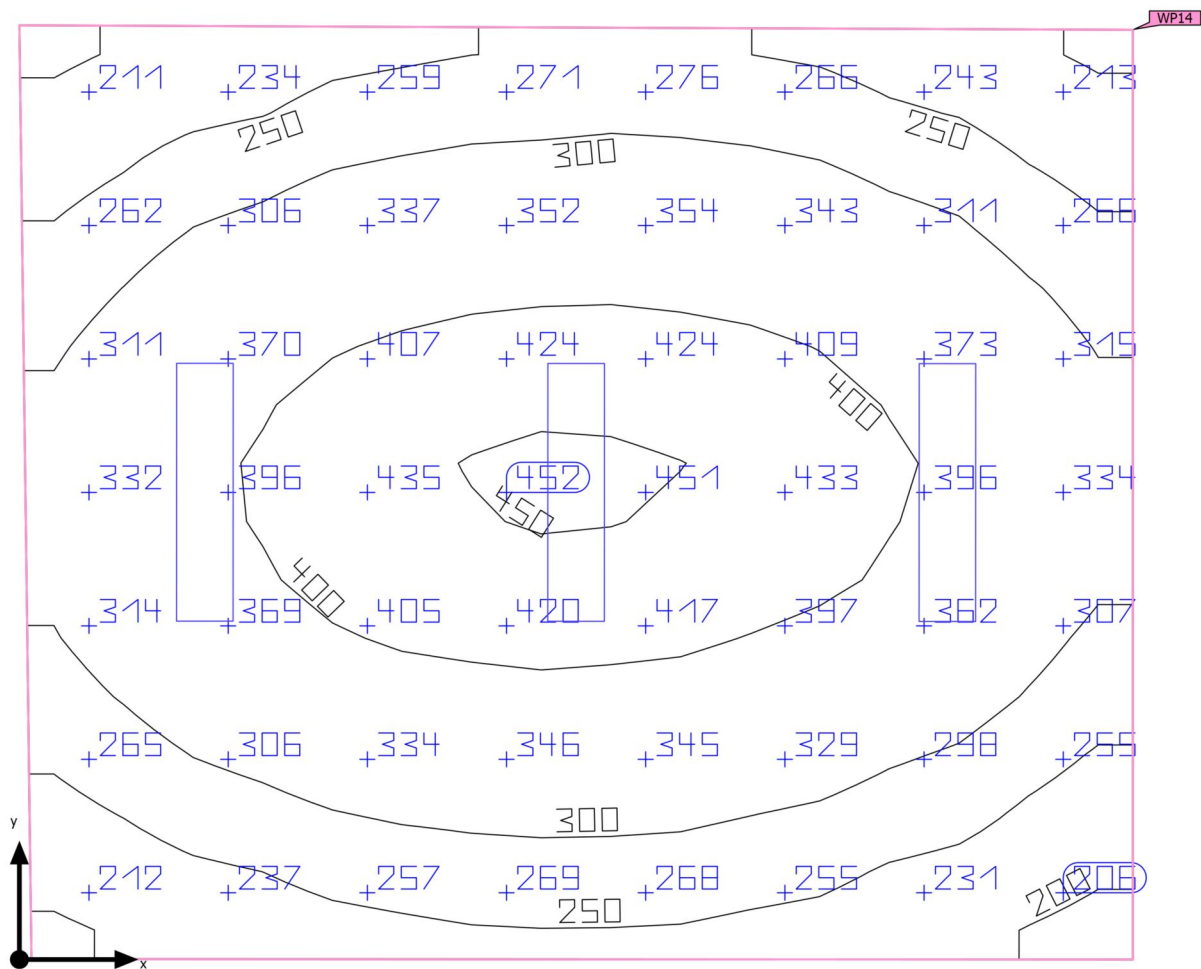


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 13) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	177 lx ( $\geq 100$ lx) ✓	118 lx	241 lx	0.67 ( $\geq 0.20$ ) ✓	0.49	WP13

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

Building 1 · Story 1 · Room 14 (Light scene 1)

Summary



Ground area	20.17 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.000 m
Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Room 14 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	324 lx	$\geq 200$ lx	✓	WP14
	$g_1$	0.58	$\geq 0.40$	✓	WP14
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	18	$\leq 22$	✓	
Consumption values <sup>(2)</sup>	Consumption	102 kWh/a	max. 750 kWh/a	✓	
Room	Lighting power density	4.61 W/m <sup>2</sup>	–		
		1.42 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 4.924 m x 4.129 m and SHR of 0.25.

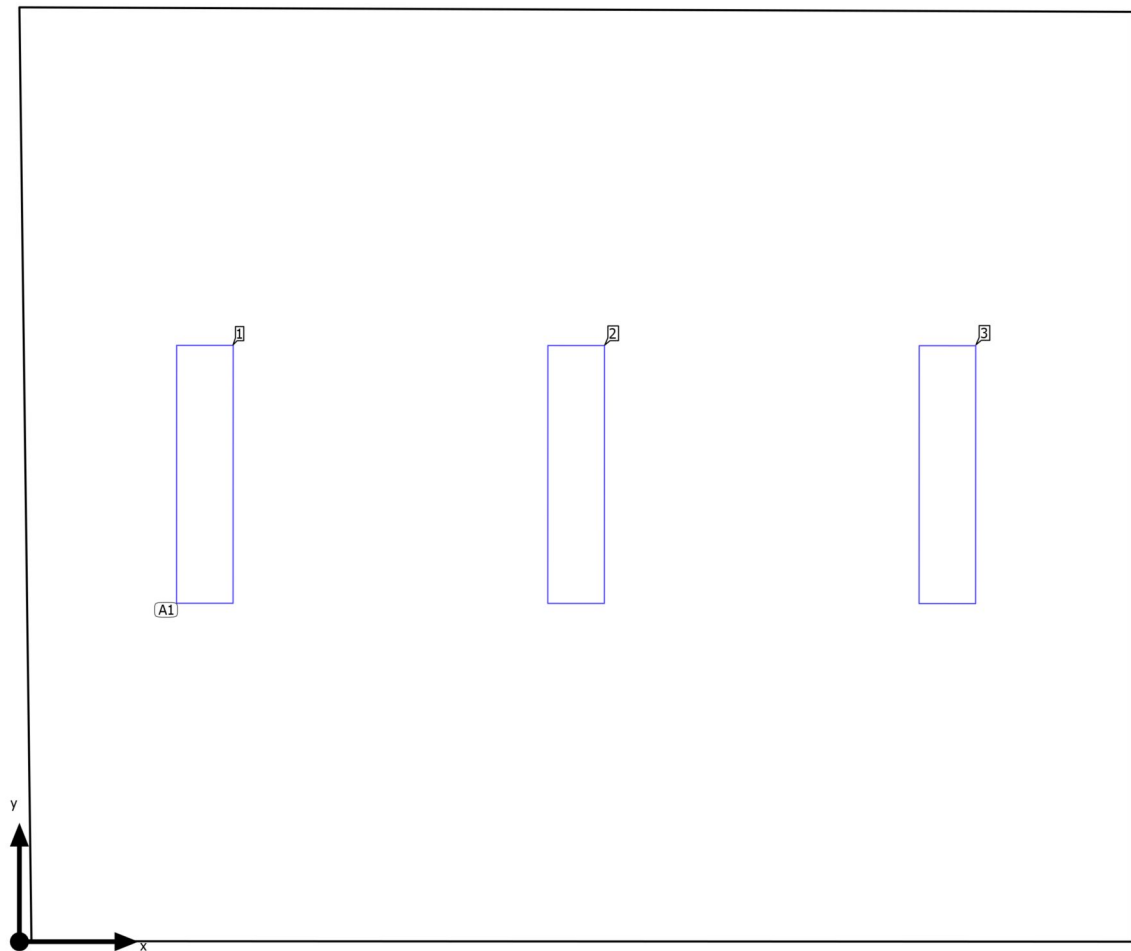
(2) Calculated using DIN:18599-4.

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

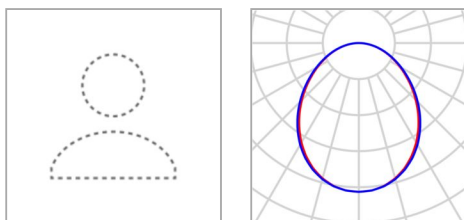
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	18	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 14

**Luminaire layout plan**

Building 1 · Story 1 · Room 14

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

3 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	0.820 m / 2.066 m / 2.800 m	0.820 m	2.066 m	2.800 m	1
X-direction	3 pcs., Center - center, 1.641 m	2.461 m	2.066 m	2.800 m	2
Y-direction	1 pcs., Center - center, 4.129 m	4.102 m	2.065 m	2.800 m	3
Arrangement	A1				

Building 1 · Story 1 · Room 14

**Luminaire list** $\Phi_{\text{total}}$ 

13047 lm

 $P_{\text{total}}$ 

93.0 W

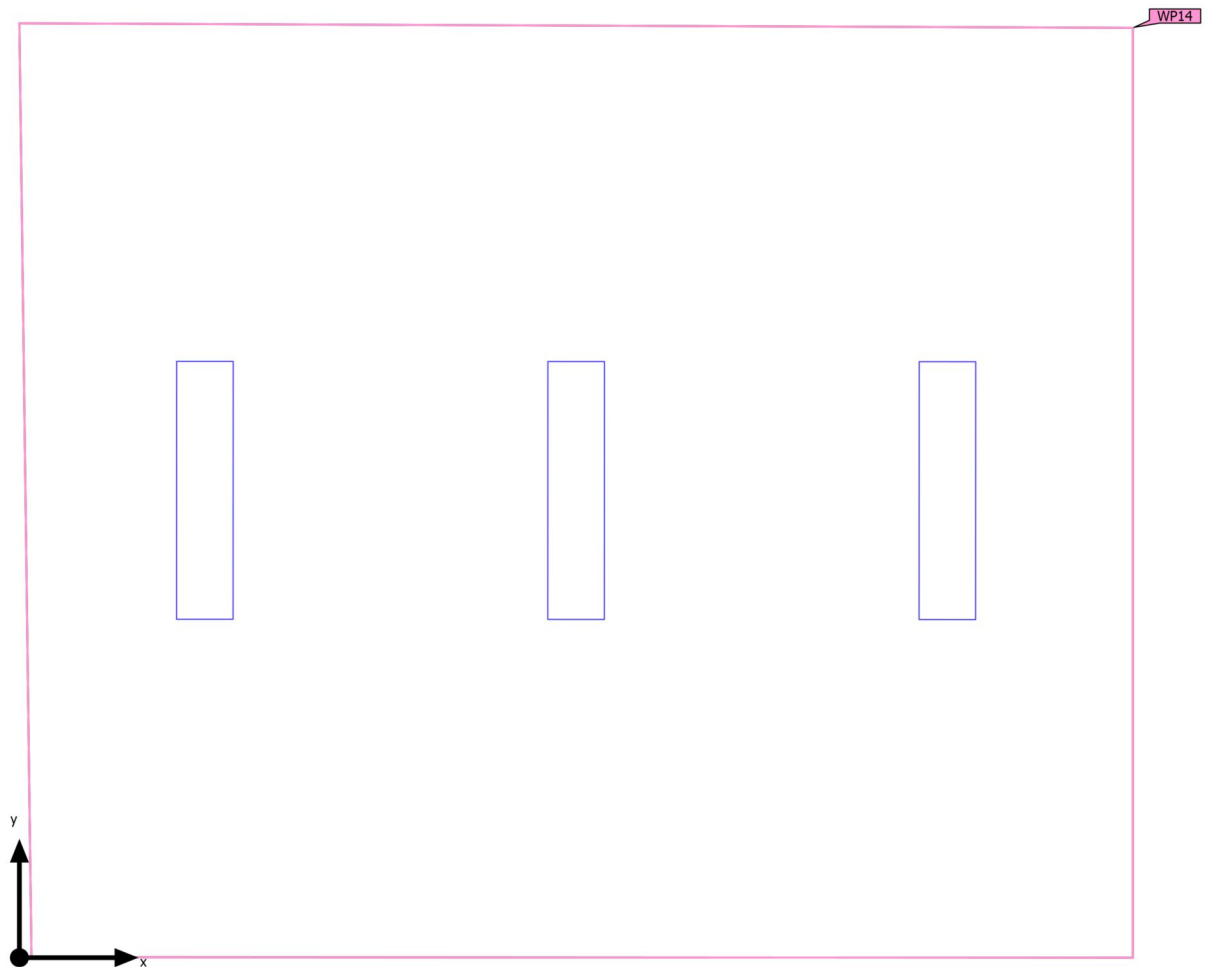
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 14 (Light scene 1)

## Calculation objects





Building 1 · Story 1 · Room 14 (Light scene 1)

**Calculation objects**

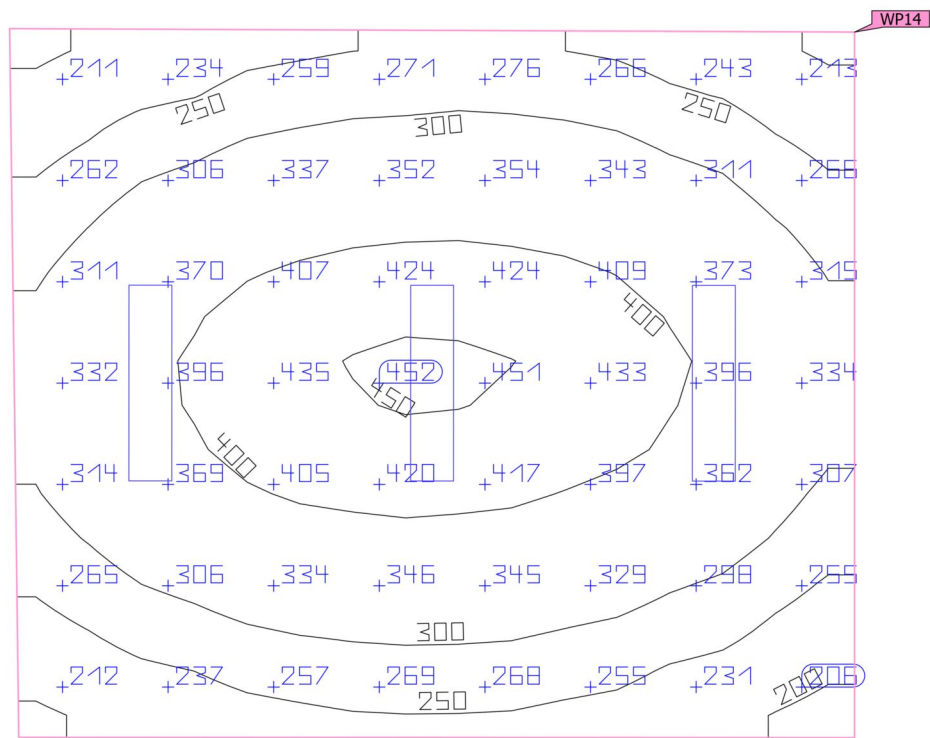
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 14) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	324 lx ( $\geq 200$ lx) ✓	187 lx	455 lx	0.58 ( $\geq 0.40$ ) ✓	0.41	WP14

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

Building 1 · Story 1 · Room 14 (Light scene 1)

Working plane (Room 14)

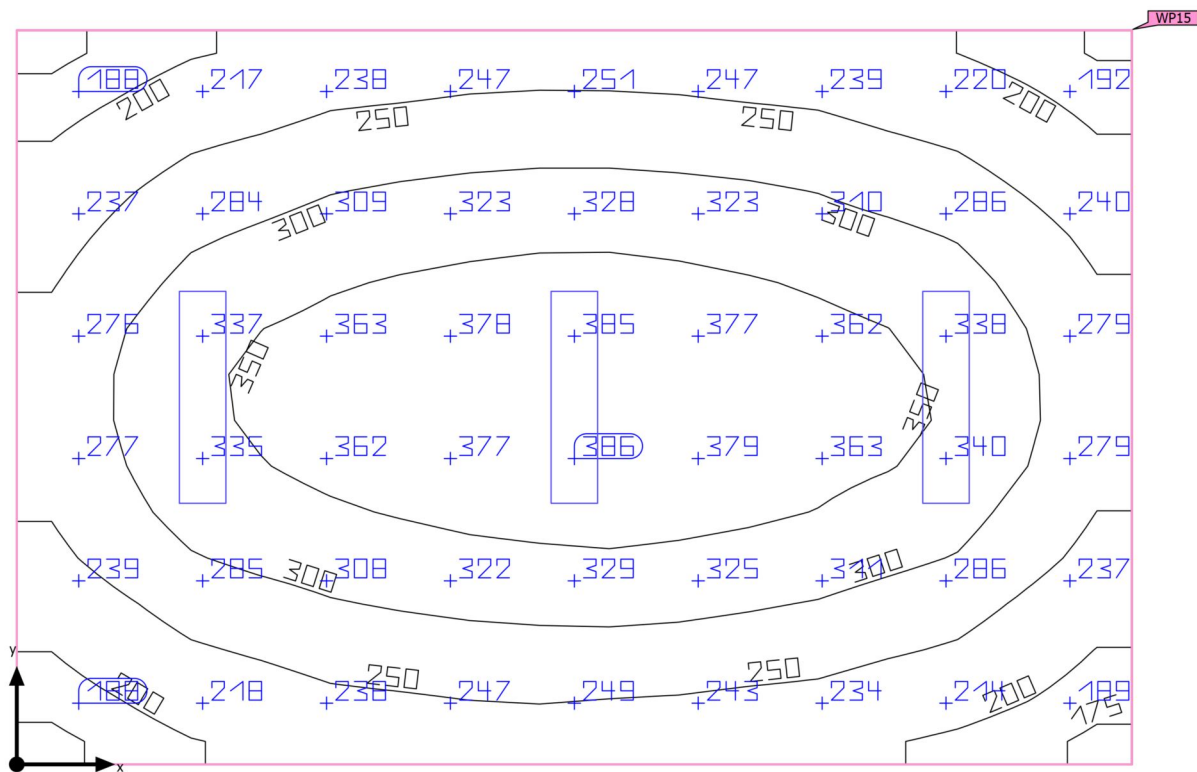


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 14)	324 lx	187 lx	455 lx	0.58	0.41	WP14
Perpendicular illuminance (adaptive)	(≥ 200 lx)			(≥ 0.40)		
Height: 0.000 m, Wall zone: 0.000 m	✓			✓		

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

Building 1 · Story 1 · Room 15 (Light scene 1)

Summary



Ground area	23.68 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.000 m
Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Room 15 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	287 lx	$\geq 100 \text{ lx}$	✓	WP15
	$g_1$	0.59	$\geq 0.40$	✓	WP15
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	19	$\leq 22$	✓	
Consumption values <sup>(2)</sup>	Consumption	102 kWh/a	max. 850 kWh/a	✓	
Room	Lighting power density	3.93 W/m <sup>2</sup>	–		
		1.37 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 5.995 m x 3.949 m and SHR of 0.25.

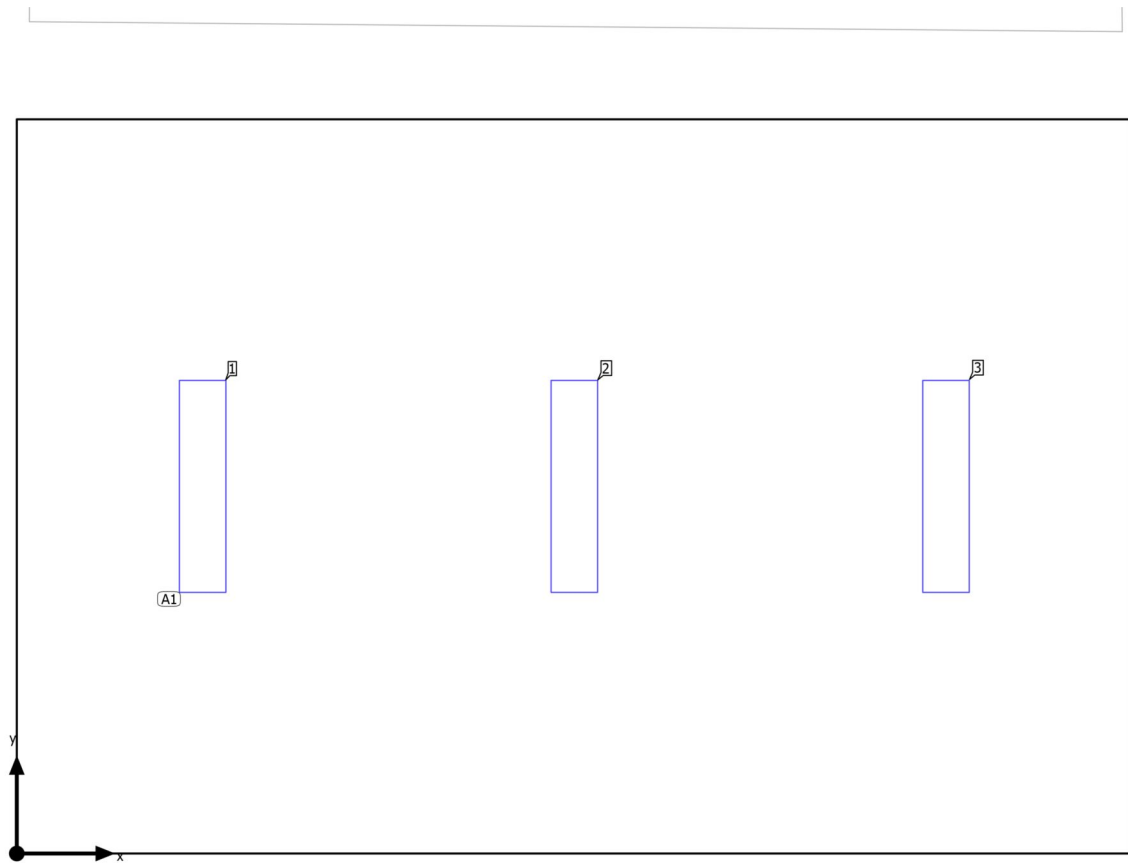
(2) Calculated using DIN:18599-4.

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

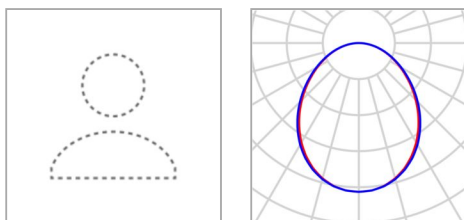
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	19	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 15

**Luminaire layout plan**

Building 1 · Story 1 · Room 15

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

3 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	0.999 m / 1.975 m / 2.800 m	0.999 m	1.975 m	2.800 m	1
X-direction	3 pcs., Center - center, 1.998 m	2.998 m	1.975 m	2.800 m	2
Y-direction	1 pcs., Center - center, 3.949 m	4.996 m	1.975 m	2.800 m	3
Arrangement	A1				

Building 1 · Story 1 · Room 15

**Luminaire list** $\Phi_{\text{total}}$ 

13047 lm

 $P_{\text{total}}$ 

93.0 W

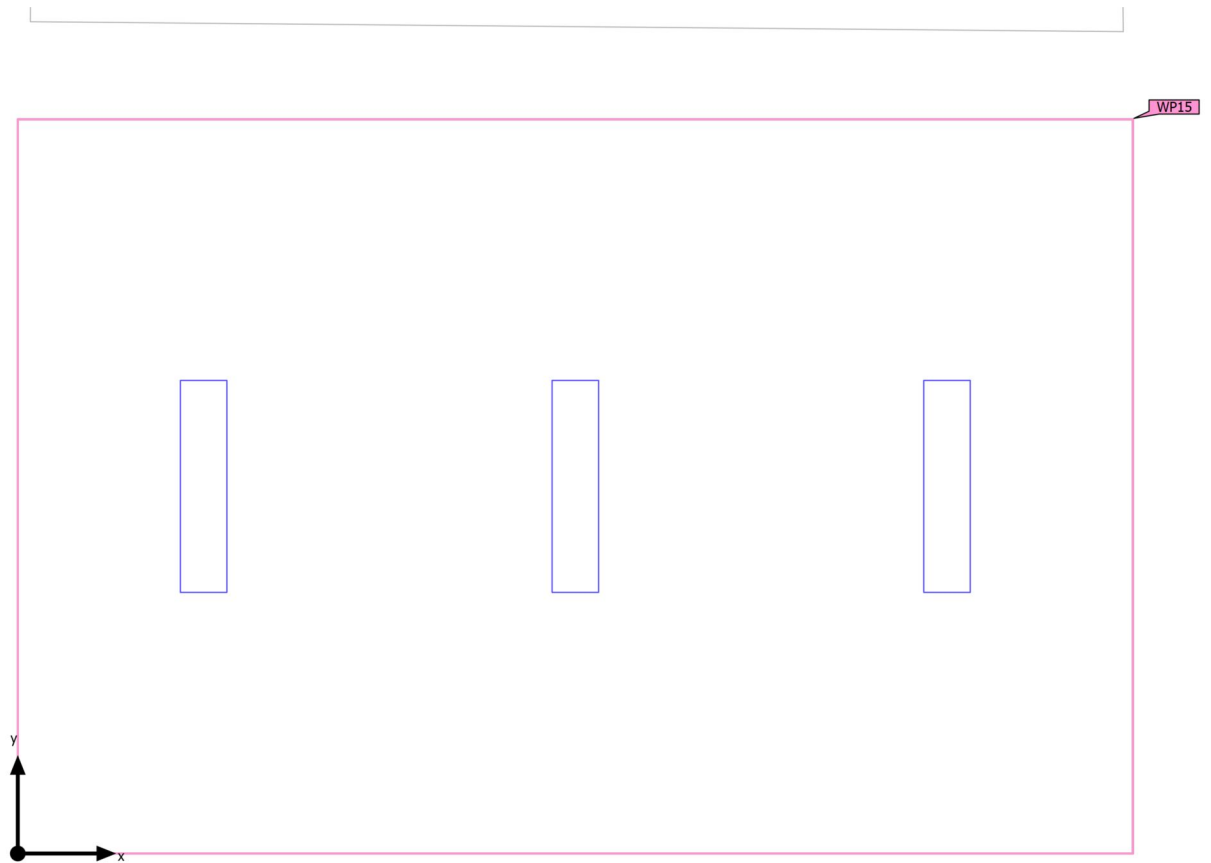
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 15 (Light scene 1)

## Calculation objects





Building 1 · Story 1 · Room 15 (Light scene 1)

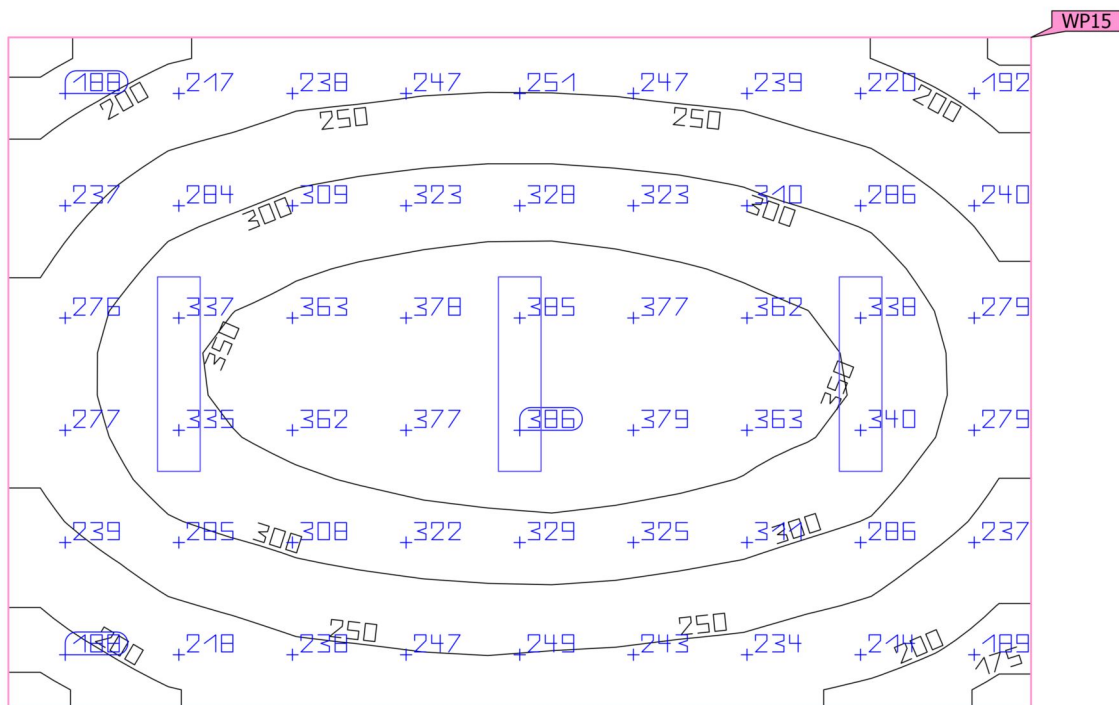
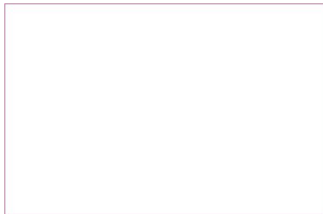
Calculation objects

Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 15) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	287 lx (≥ 100 lx) ✓	168 lx	394 lx	0.59 (≥ 0.40) ✓	0.43	WP15

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

Building 1 · Story 1 · Room 15 (Light scene 1)

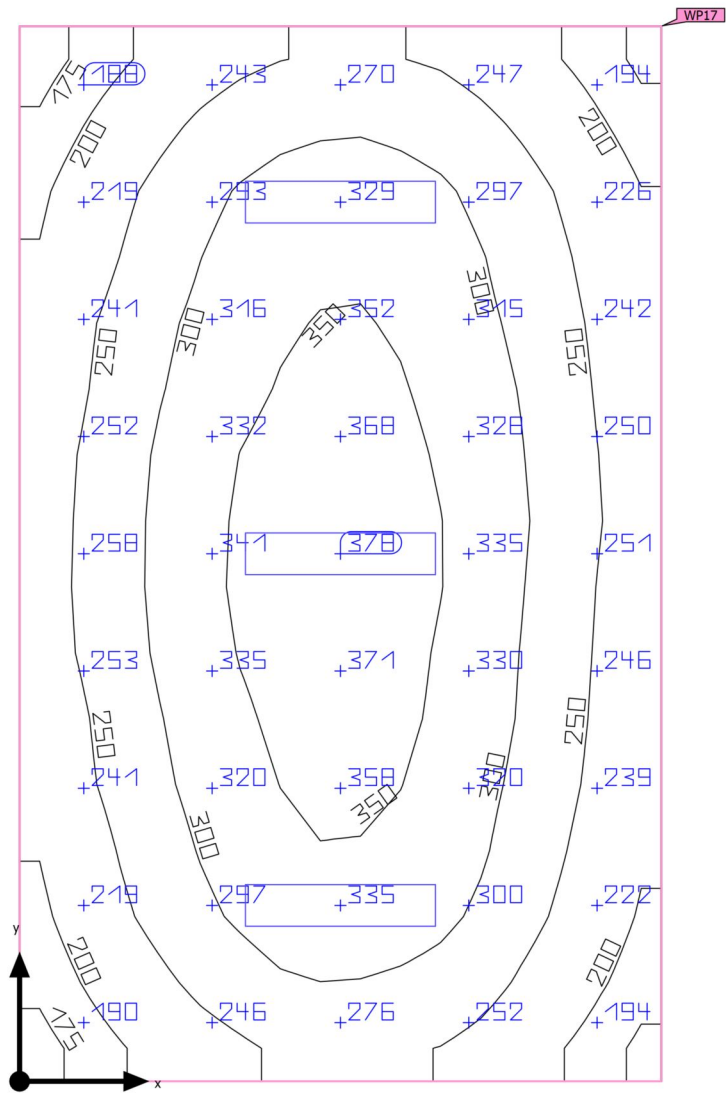
**Working plane (Room 15)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 15)	287 lx	168 lx	394 lx	0.59	0.43	WP15
Perpendicular illuminance (adaptive)	$\geq 100$ lx			$\geq 0.40$		
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 · Story 1 · Room 17 (Light scene 1)

Summary



Ground area	24.36 m <sup>2</sup>	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height <sub>Working plane</sub>	0.000 m
		Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Room 17 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	279 lx	$\geq 100 \text{ lx}$	✓	WP17
	$g_1$	0.59	$\geq 0.40$	✓	WP17
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	19	$\leq 22$	✓	
Consumption values <sup>(2)</sup>	Consumption	102 kWh/a	max. 900 kWh/a	✓	
Room	Lighting power density	3.82 W/m <sup>2</sup>	–		
		1.37 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 3.849 m x 6.328 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

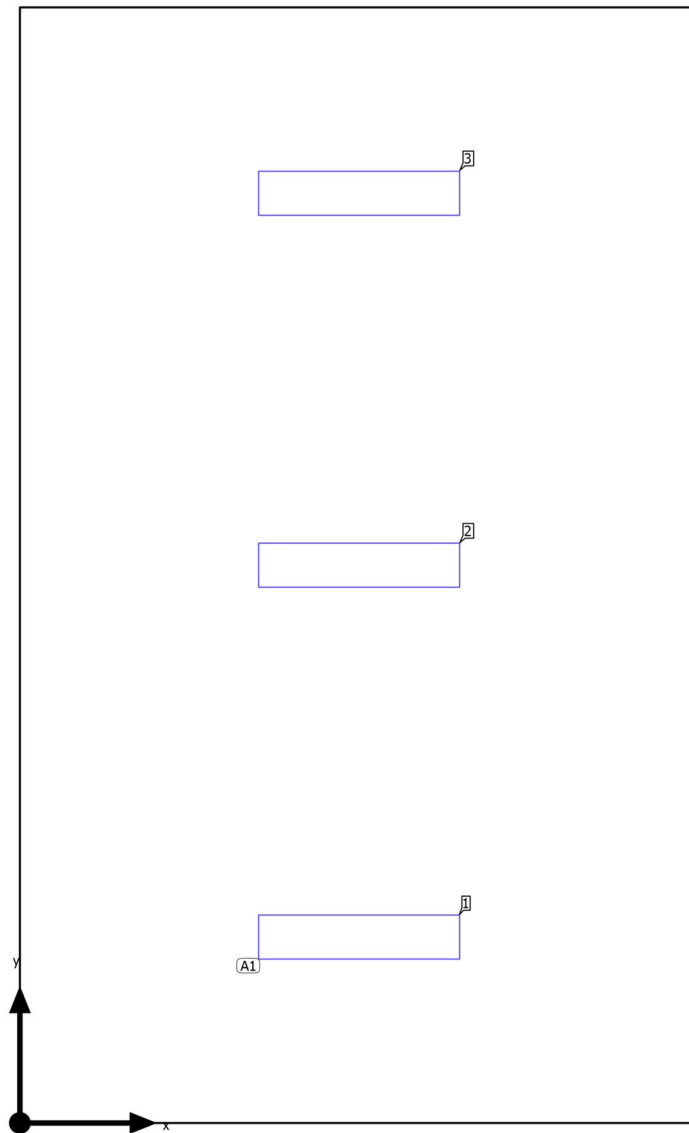
Utilization profile: Health care premises - Rooms for general use (5.37.2 Corridors: During the day)

### Luminaire list

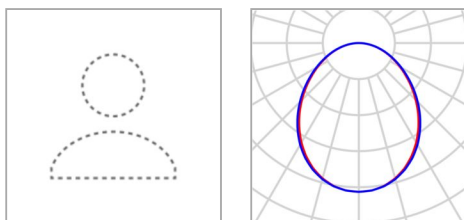
pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	19	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 17

## Luminaire layout plan



Building 1 · Story 1 · Room 17

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

3 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.925 m / 1.055 m / 2.800 m	1.925 m	1.055 m	2.800 m	1
X-direction	1 pcs., Center - center, 3.849 m	1.925 m	3.164 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.109 m	1.925 m	5.274 m	2.800 m	3
Arrangement	A1				

Building 1 · Story 1 · Room 17

**Luminaire list** $\Phi_{\text{total}}$ 

13047 lm

 $P_{\text{total}}$ 

93.0 W

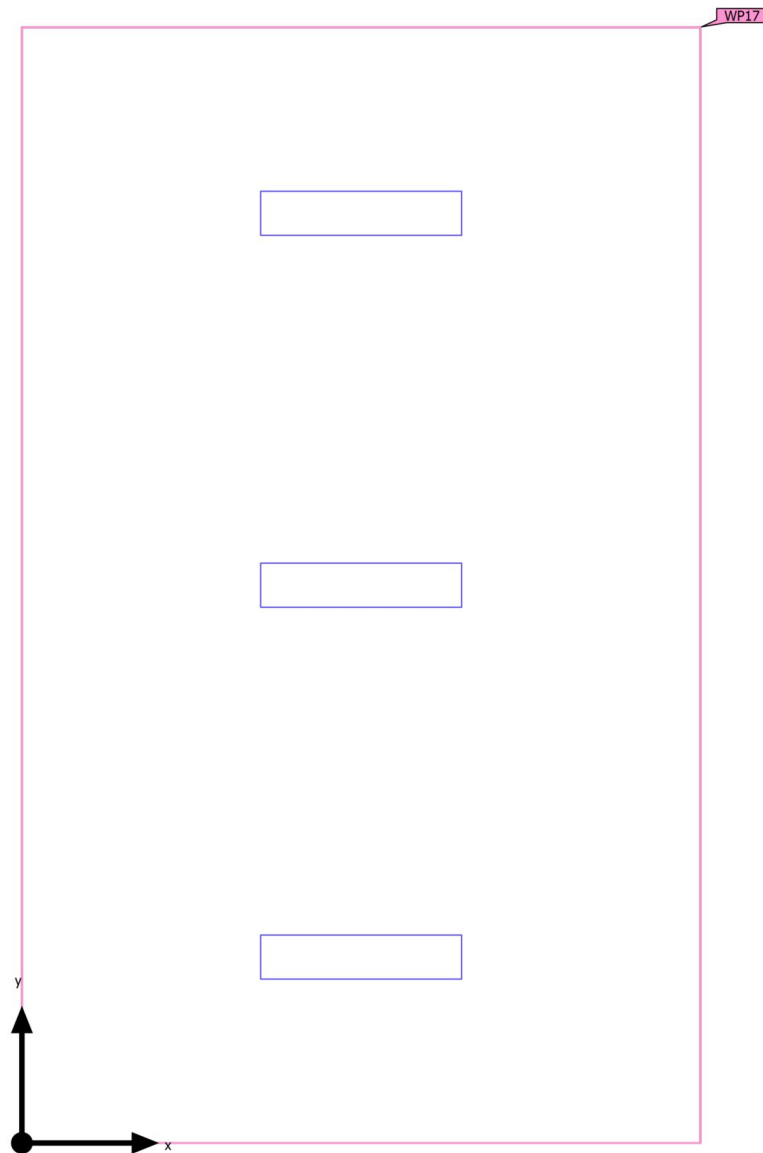
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 17 (Light scene 1)

## Calculation objects





Building 1 · Story 1 · Room 17 (Light scene 1)

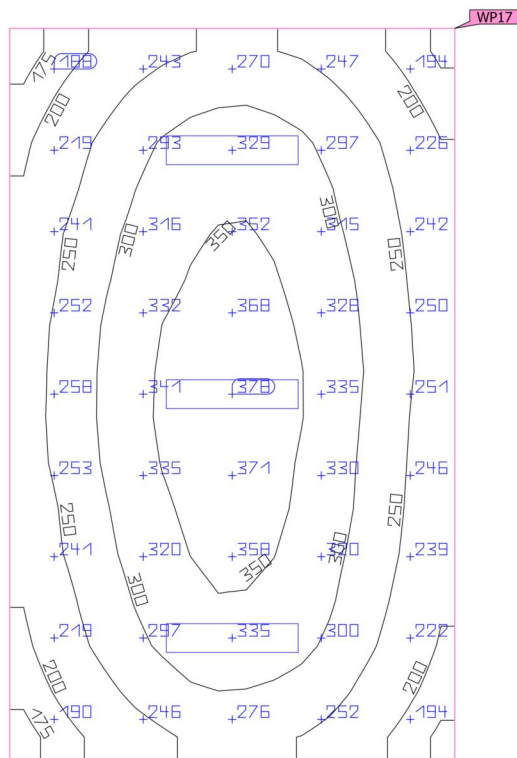
Calculation objects

Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 17) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	279 lx ( $\geq 100$ lx) ✓	164 lx	379 lx	0.59 ( $\geq 0.40$ ) ✓	0.43	WP17

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

Building 1 · Story 1 · Room 17 (Light scene 1)

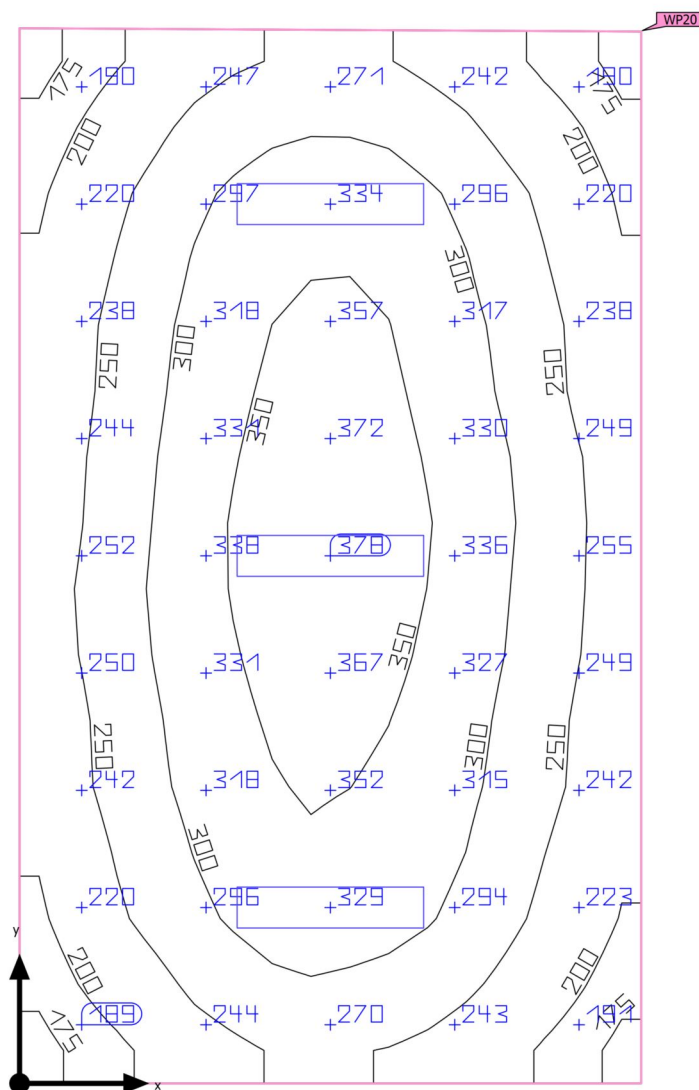
**Working plane (Room 17)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 17)	279 lx	164 lx	379 lx	0.59	0.43	WP17
Perpendicular illuminance (adaptive)	( $\geq 100$ lx)			( $\geq 0.40$ )		
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 · Story 1 · Room 20 (Light scene 1)

## Summary



Ground area	24.46 m²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height <sub>Working plane</sub>	0.000 m
		Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Room 20 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	278 lx	$\geq 200$ lx	✓	WP20
	$g_1$	0.59	$\geq 0.40$	✓	WP20
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	19	$\leq 22$	✓	
Consumption values <sup>(2)</sup>	Consumption	102 kWh/a	max. 900 kWh/a	✓	
Room	Lighting power density	3.80 W/m <sup>2</sup>	–		
		1.37 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 3.799 m x 6.448 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

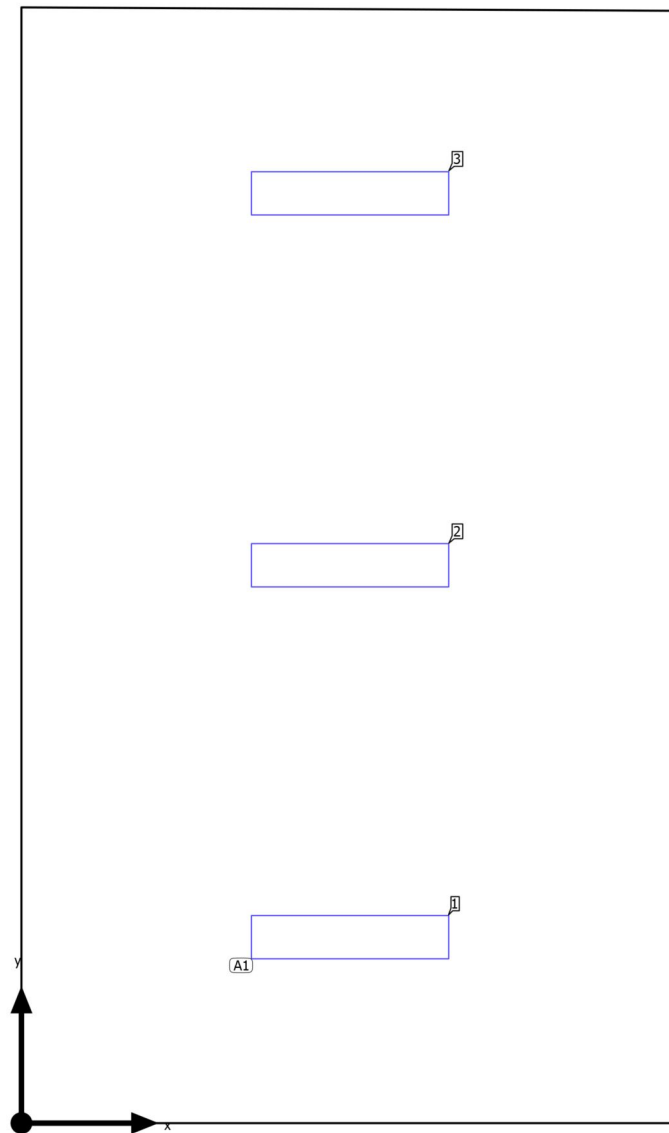
Utilization profile: Health care premises - Rooms for general use (5.37.5 Multipurpose corridors)

### Luminaire list

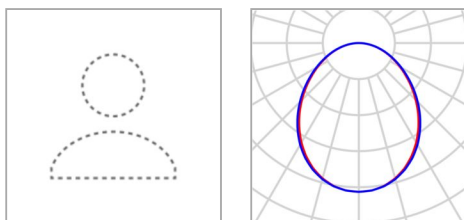
pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	19	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 20

## Luminaire layout plan



Building 1 · Story 1 · Room 20

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

3 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.900 m / 1.075 m / 2.800 m	1.900 m	1.075 m	2.800 m	1
X-direction	1 pcs., Center - center, 3.799 m	1.900 m	3.224 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.149 m	1.900 m	5.374 m	2.800 m	3
Arrangement	A1				

Building 1 · Story 1 · Room 20

**Luminaire list** $\Phi_{\text{total}}$ 

13047 lm

 $P_{\text{total}}$ 

93.0 W

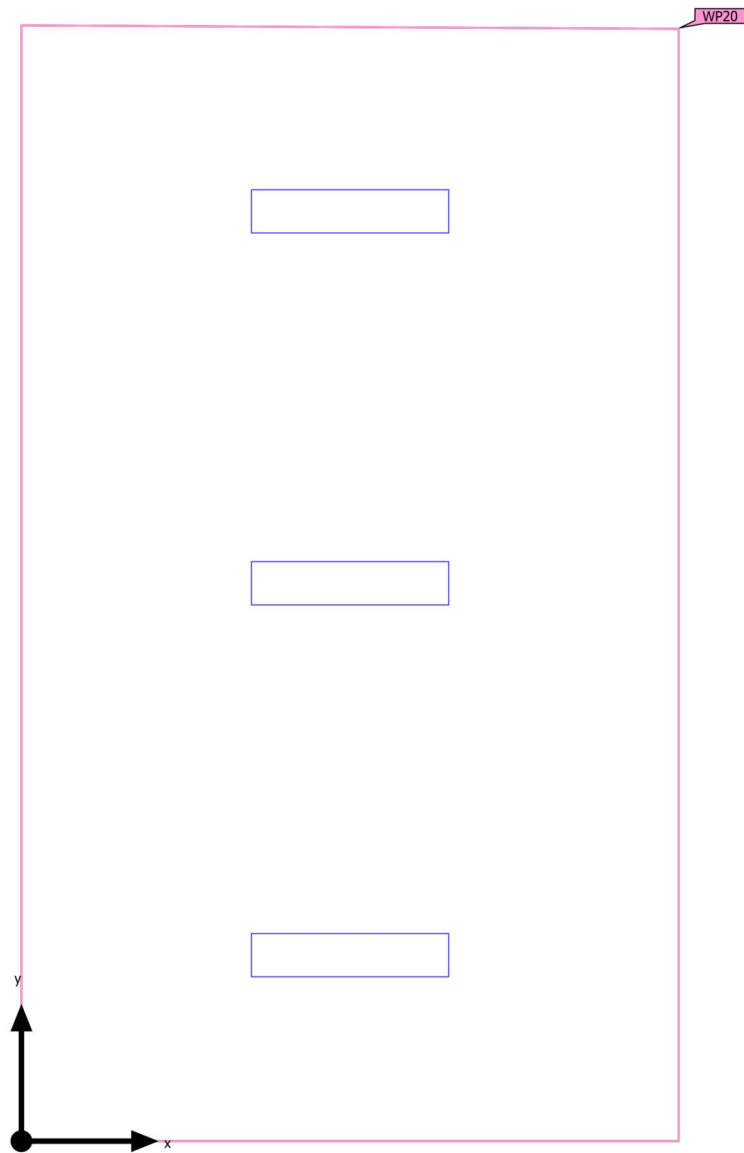
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 20 (Light scene 1)

## Calculation objects





Building 1 · Story 1 · Room 20 (Light scene 1)

Calculation objects

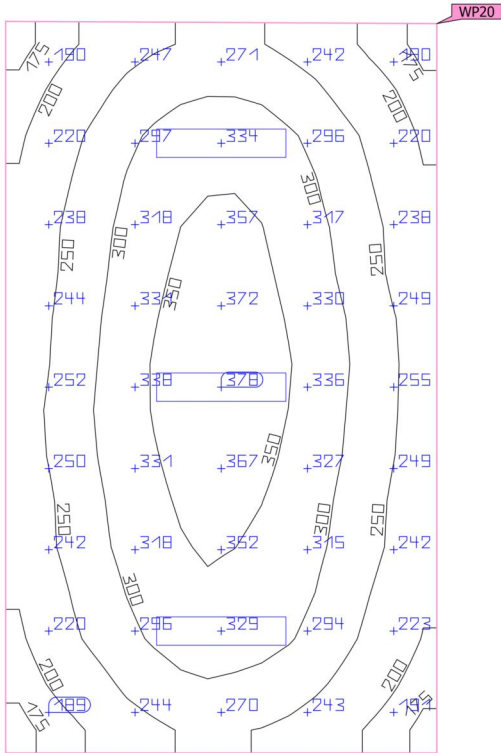
Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 20) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	278 lx (≥ 200 lx) ✓	165 lx	378 lx	0.59 (≥ 0.40) ✓	0.44	WP20

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

Building 1 · Story 1 · Room 20 (Light scene 1)

Working plane (Room 20)

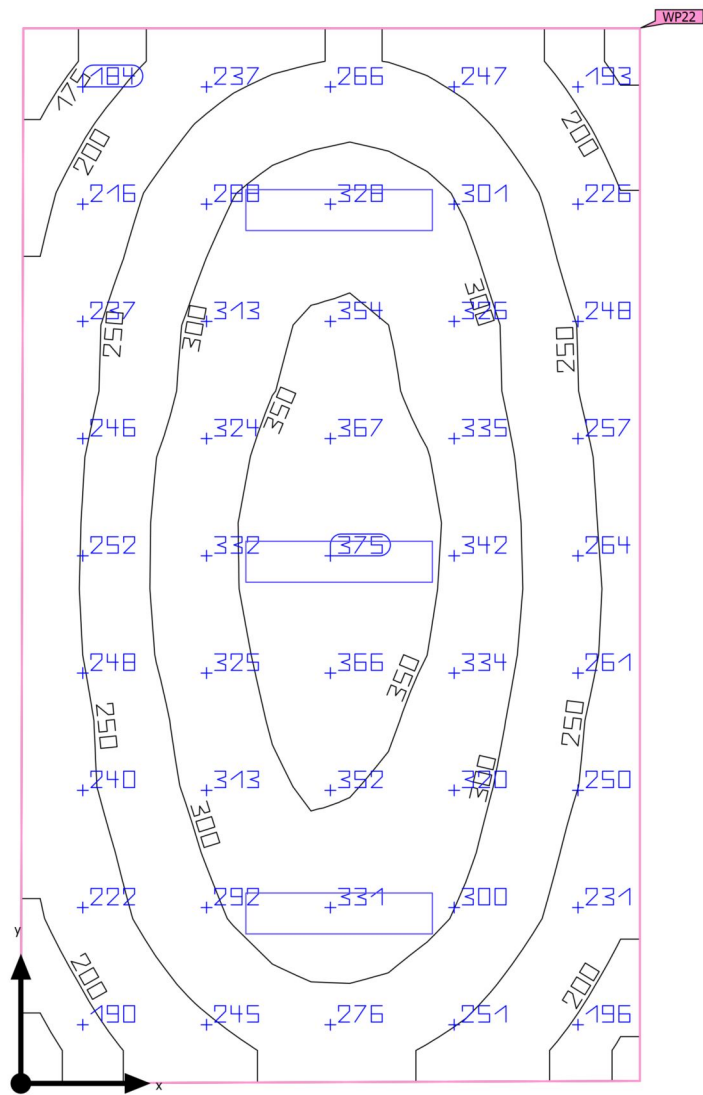


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 20)	278 lx	165 lx	378 lx	0.59	0.44	WP20
Perpendicular illuminance (adaptive)	(≥ 200 lx)			(≥ 0.40)		
Height: 0.000 m, Wall zone: 0.000 m	✓			✓		

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

Building 1 · Story 1 · Room 22 (Light scene 1)

Summary



Ground area	24.32 m <sup>2</sup>	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height <sub>Working plane</sub>	0.000 m
		Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Room 22 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	279 lx	$\geq 200$ lx	✓	WP22
	$g_1$	0.58	$\geq 0.40$	✓	WP22
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	19	$\leq 22$	✓	
Consumption values <sup>(2)</sup>	Consumption	102 kWh/a	max. 900 kWh/a	✓	
Room	Lighting power density	3.82 W/m <sup>2</sup>	–		
		1.37 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 6.448 m x 3.783 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

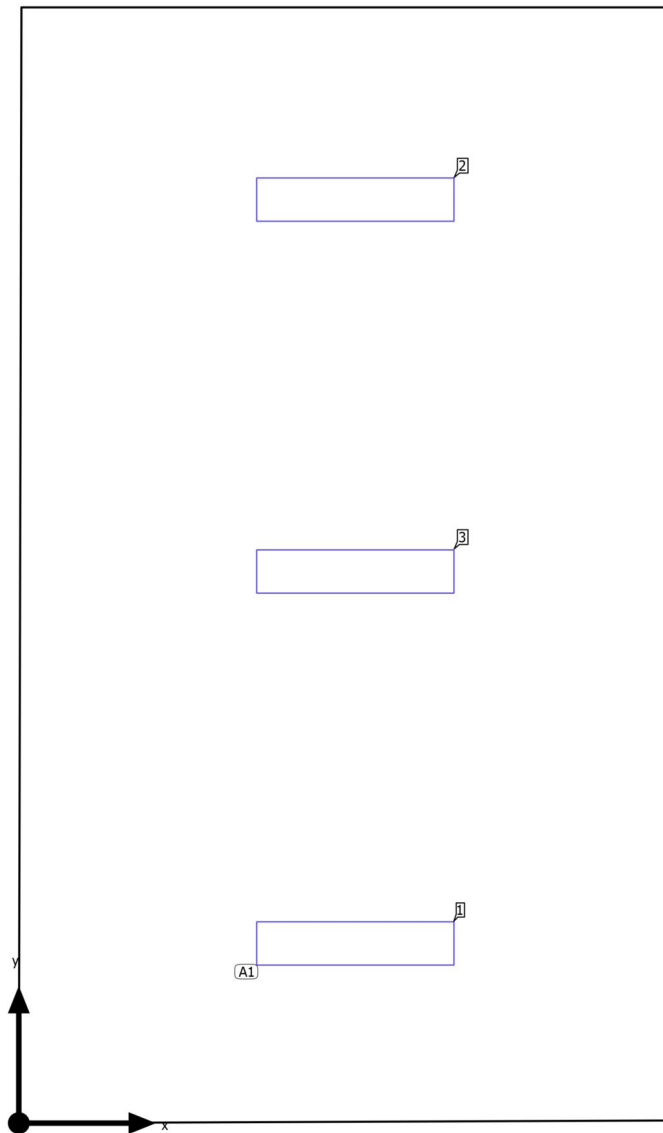
Utilization profile: Health care premises - Rooms for general use (5.37.5 Multipurpose corridors)

### Luminaire list

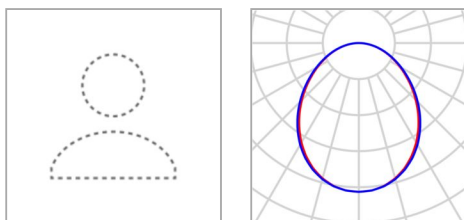
pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	19	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 22

## Luminaire layout plan



Building 1 · Story 1 · Room 22

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

3 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.945 m / 1.038 m / 2.800 m	1.945 m	1.038 m	2.800 m	1
X-direction	1 pcs., Center - center, 3.799 m	1.945 m	5.337 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.149 m	1.945 m	3.188 m	2.800 m	3
Arrangement	A1				

Building 1 · Story 1 · Room 22

**Luminaire list** $\Phi_{\text{total}}$ 

13047 lm

 $P_{\text{total}}$ 

93.0 W

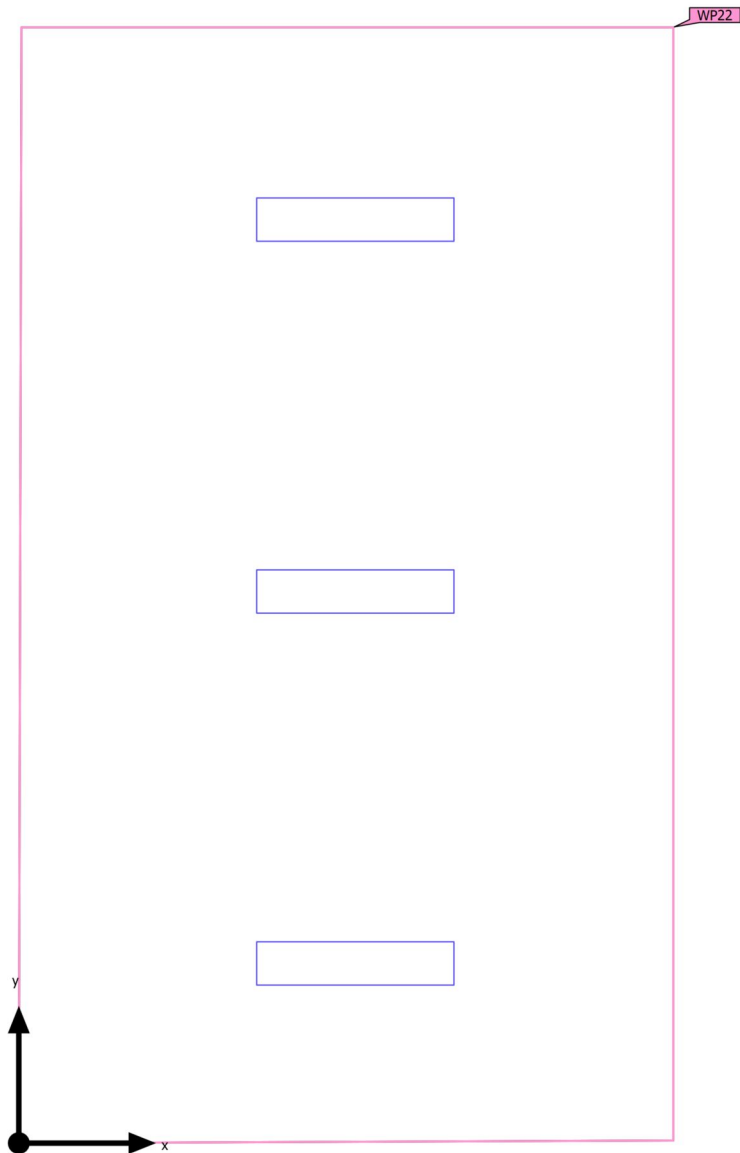
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 22 (Light scene 1)

## Calculation objects





Building 1 · Story 1 · Room 22 (Light scene 1)

Calculation objects

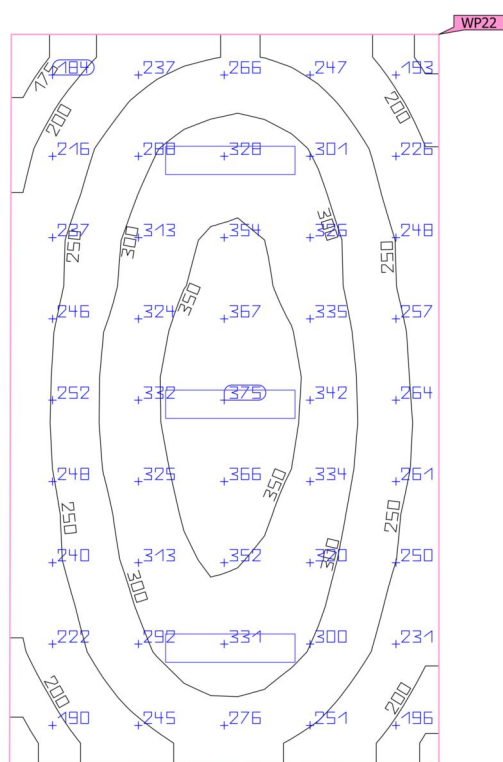
Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 22) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	279 lx ( $\geq 200$ lx) ✓	161 lx	376 lx	0.58 ( $\geq 0.40$ ) ✓	0.43	WP22

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

Building 1 · Story 1 · Room 22 (Light scene 1)

## Working plane (Room 22)

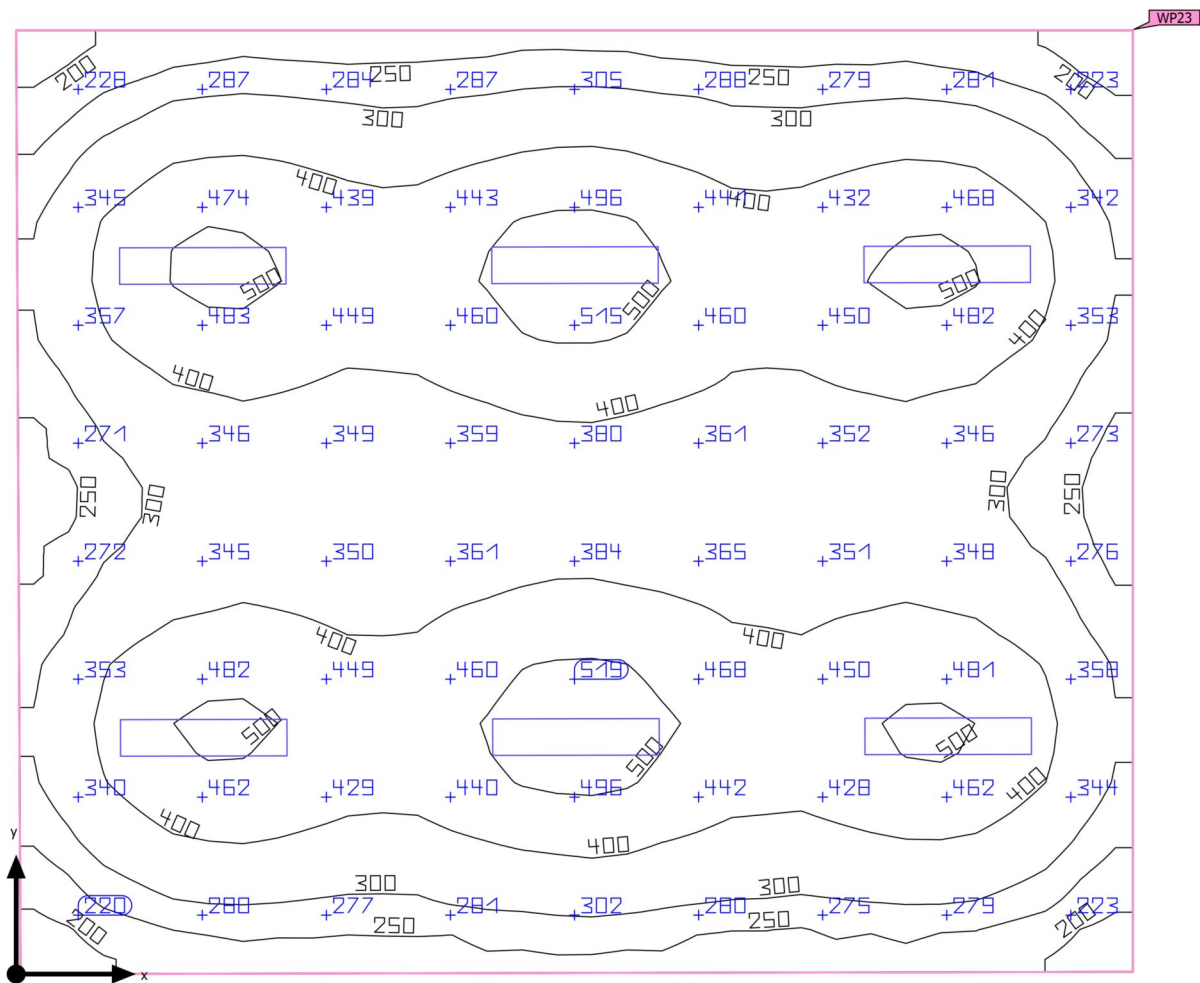


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 22) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	279 lx (≥ 200 lx) ✓	161 lx	376 lx	0.58 (≥ 0.40) ✓	0.43	WP22

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

Building 1 · Story 1 · Room 23 (Light scene 1)

Summary



Ground area	49.28 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.800 m
Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Room 23 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	370 lx	$\geq 300 \text{ lx}$	✓	WP23
	$g_1$	0.45	$\geq 0.40$	✓	WP23
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	21	$\leq 19$	✗	
Consumption values <sup>(2)</sup>	Consumption	247 kWh/a	max. 1750 kWh/a	✓	
Room	Lighting power density	3.77 W/m <sup>2</sup>	–		
		1.02 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 6.464 m x 7.648 m and SHR of 0.25.

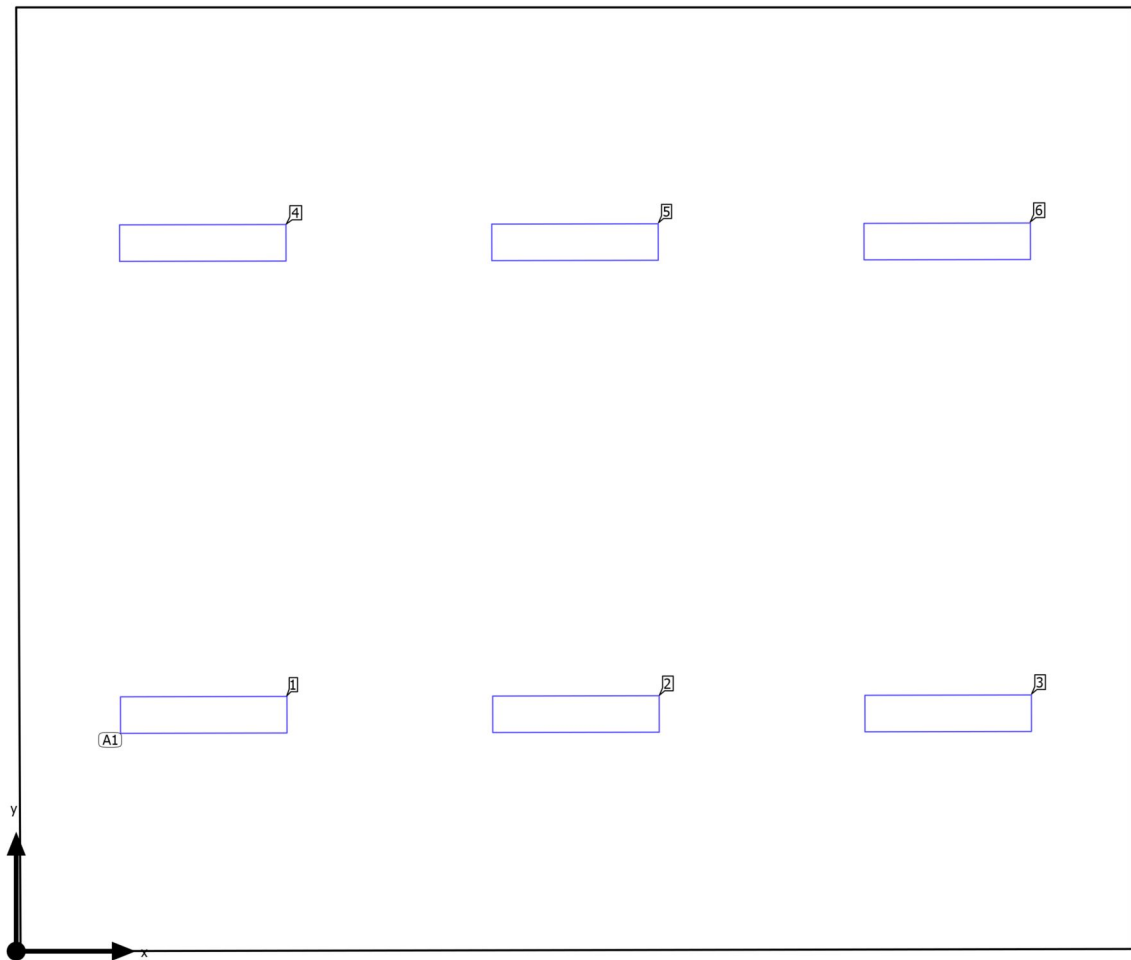
(2) Calculated using DIN:18599-4.

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

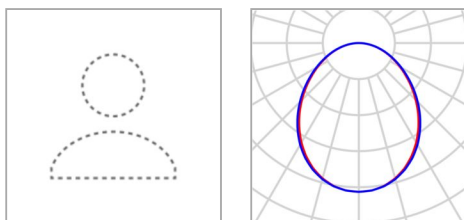
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	21	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 23

**Luminaire layout plan**

Building 1 · Story 1 · Room 23

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member
Article No.	2059438
Article name	LYTEPANEL II 1200 4K DALI SM
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm

P	31.0 W
$\Phi_{\text{Luminaire}}$	4349 lm

6 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.285 m / 1.619 m / 2.800 m	1.285 m	1.619 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.549 m	3.834 m	1.624 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.232 m	6.383 m	1.629 m	2.800 m	3
Arrangement	A1	1.278 m	4.851 m	2.800 m	4
		3.827 m	4.856 m	2.800 m	5
		6.377 m	4.861 m	2.800 m	6

Building 1 · Story 1 · Room 23

**Luminaire list** $\Phi_{\text{total}}$ 

26094 lm

 $P_{\text{total}}$ 

186.0 W

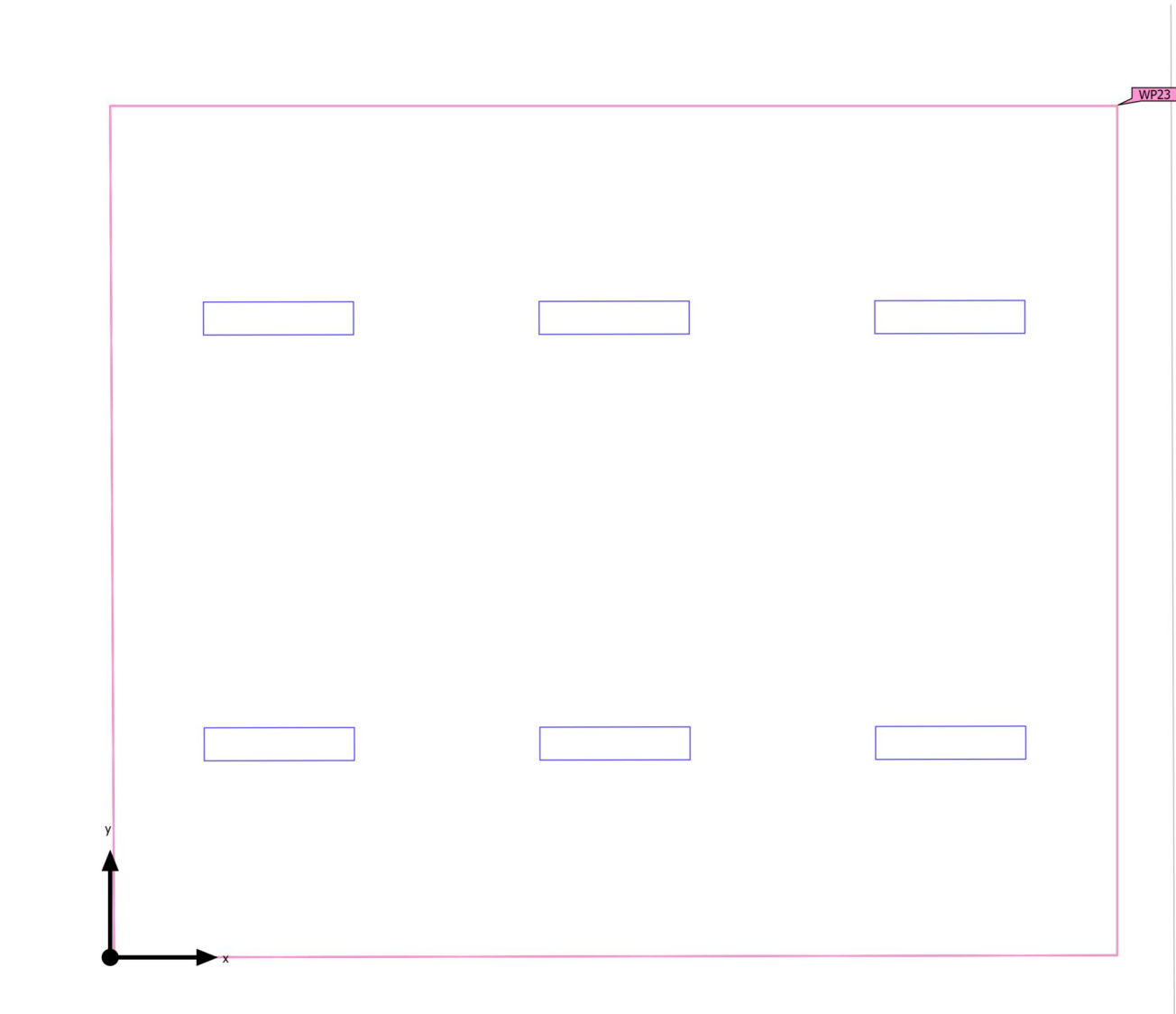
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 23 (Light scene 1)

## Calculation objects





Building 1 · Story 1 · Room 23 (Light scene 1)

**Calculation objects**

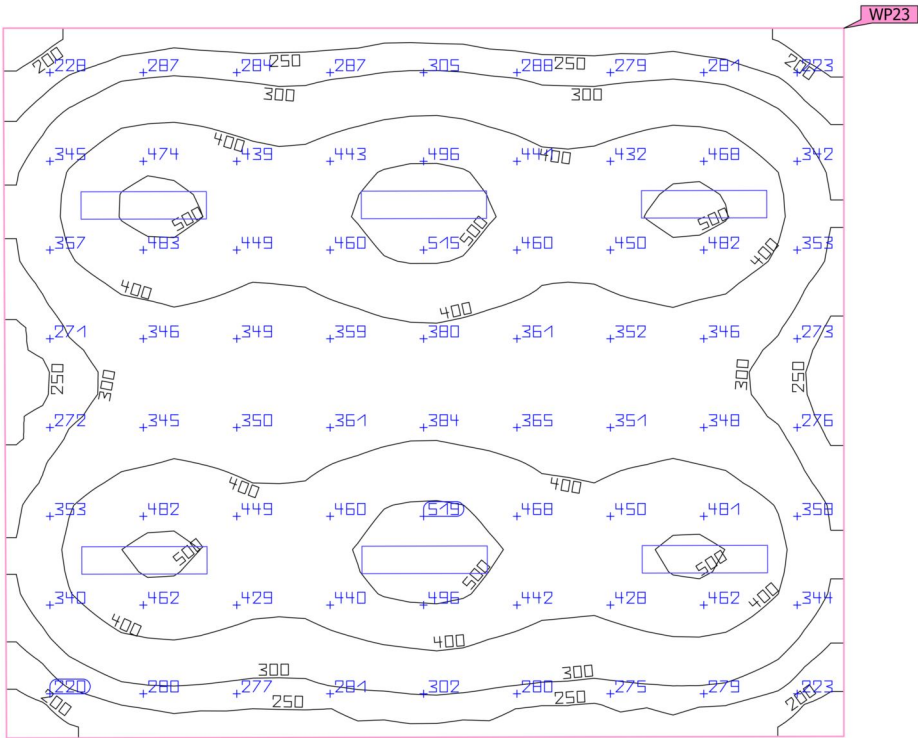
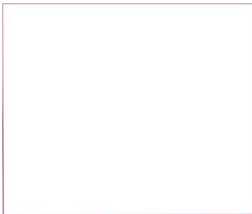
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 23) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	370 lx ( $\geq 300$ lx) ✓	167 lx	548 lx	0.45 ( $\geq 0.40$ ) ✓	0.30	WP23

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

Building 1 · Story 1 · Room 23 (Light scene 1)

Working plane (Room 23)

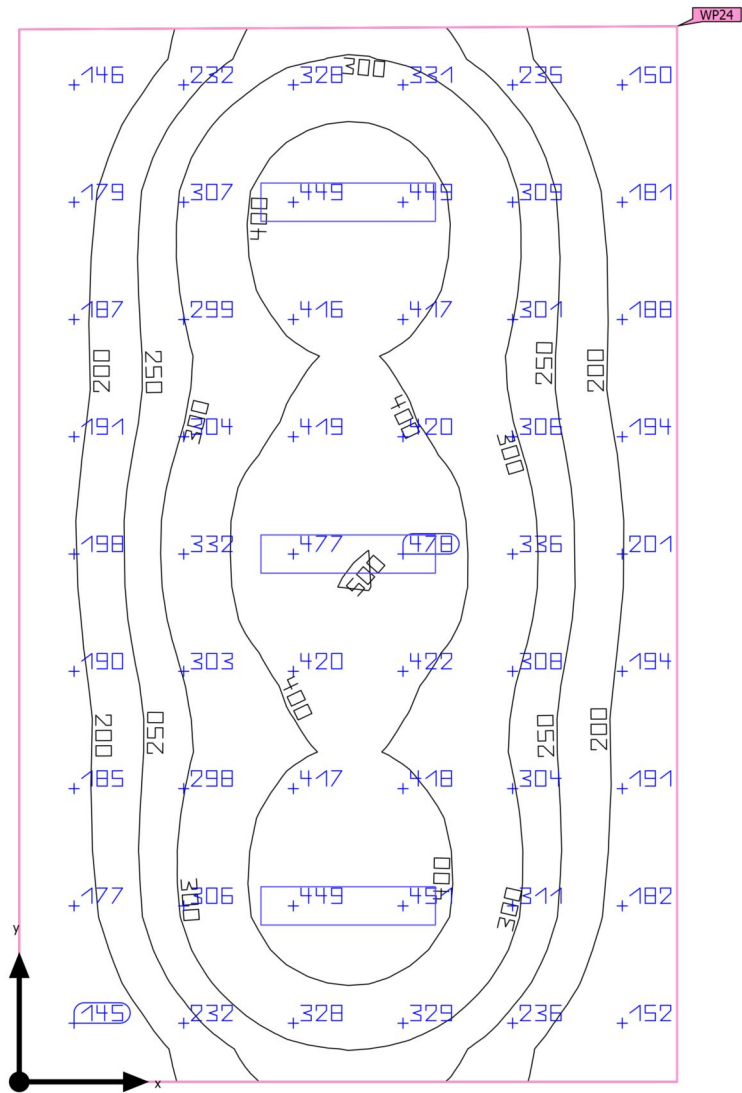


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 23)	370 lx	167 lx	548 lx	0.45	0.30	WP23
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

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

Building 1 · Story 1 · Room 24 (Light scene 1)

Summary



Ground area	29.61 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.800 m
Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Room 24 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	294 lx	$\geq 200$ lx	✓	WP24
	$g_1$	0.41	$\geq 0.40$	✓	WP24
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	19	$\leq 22$	✓	
Consumption values <sup>(2)</sup>	Consumption	179 kWh/a	max. 1050 kWh/a	✓	
Room	Lighting power density	3.14 W/m <sup>2</sup>	–		
		1.07 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 4.299 m x 6.898 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

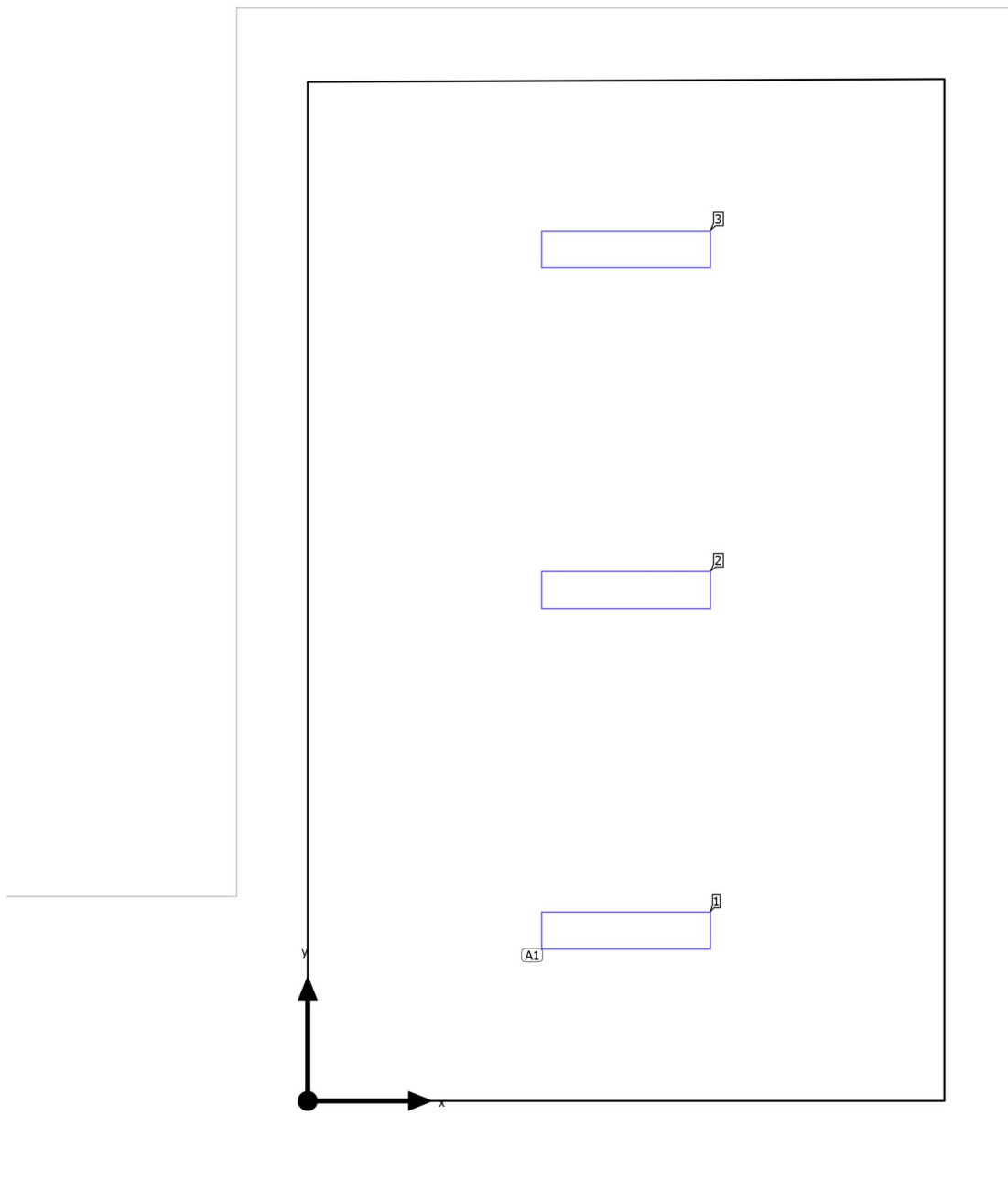
Utilization profile: Health care premises - Rooms for general use (5.37.6 Day rooms)

### Luminaire list

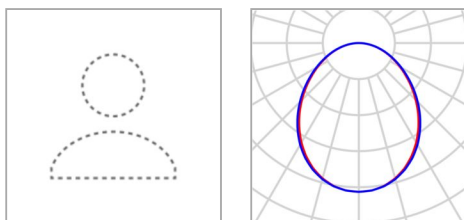
pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	19	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 24

## Luminaire layout plan



Building 1 · Story 1 · Room 24

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

3 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	2.149 m / 1.150 m / 2.800 m	2.149 m	1.150 m	2.800 m	1
X-direction	1 pcs., Center - center, 4.299 m	2.149 m	3.449 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.299 m	2.149 m	5.748 m	2.800 m	3
Arrangement	A1				

Building 1 · Story 1 · Room 24

**Luminaire list** $\Phi_{\text{total}}$ 

13047 lm

 $P_{\text{total}}$ 

93.0 W

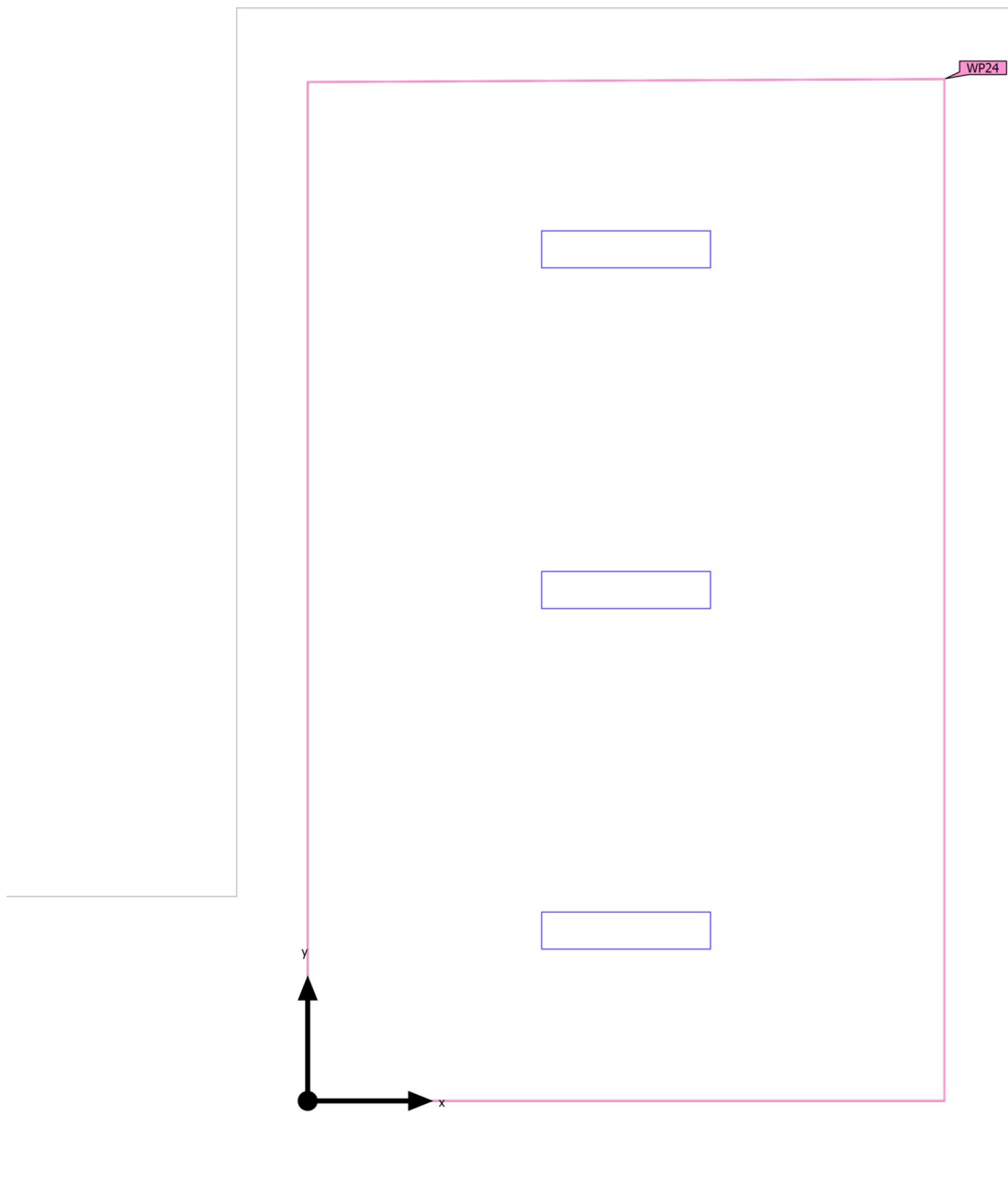
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 24 (Light scene 1)

## Calculation objects





Building 1 · Story 1 · Room 24 (Light scene 1)

Calculation objects

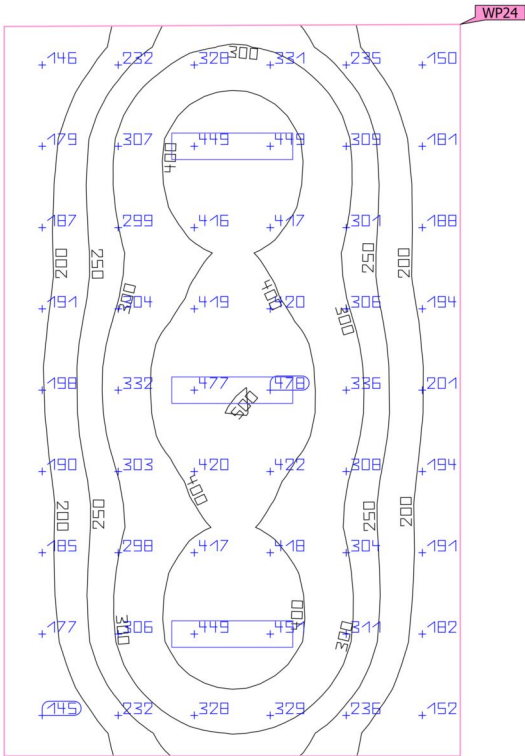
Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 24) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	294 lx (≥ 200 lx) ✓	120 lx	500 lx	0.41 (≥ 0.40) ✓	0.24	WP24

Utilization profile: Health care premises - Rooms for general use (5.37.6 Day rooms)

Building 1 · Story 1 · Room 24 (Light scene 1)

Working plane (Room 24)

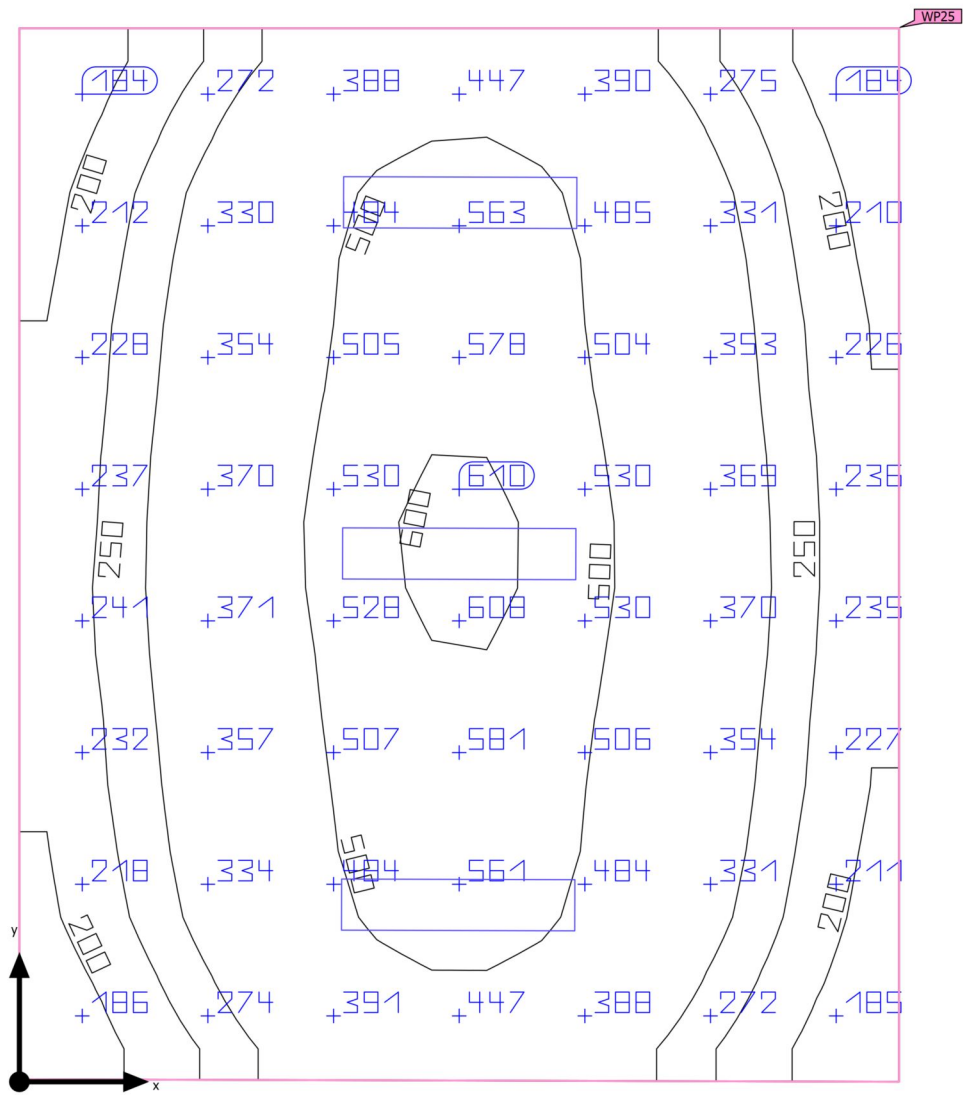


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 24)	294 lx	120 lx	500 lx	0.41	0.24	WP24
Perpendicular illuminance (adaptive)	(≥ 200 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

Utilization profile: Health care premises - Rooms for general use (5.37.6 Day rooms)

Building 1 · Story 1 · Room 25 (Light scene 1)

Summary



Ground area	22.11 m <sup>2</sup>
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height <sub>Working plane</sub>	0.800 m
Wall zone <sub>Working plane</sub>	0.000 m

Building 1 · Story 1 · Room 25 (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	372 lx	$\geq 200$ lx	✓	WP25
	$g_1$	0.43	$\geq 0.40$	✓	WP25
Glare valuation <sup>(1)</sup>	$R_{UG, \text{max}}$	19	$\leq 22$	✓	
Consumption values <sup>(2)</sup>	Consumption	179 kWh/a	max. 800 kWh/a	✓	
Room	Lighting power density	4.21 W/m <sup>2</sup>	–		
		1.13 W/m <sup>2</sup> /100 lx	–		

(1) Based on a rectangular space of 5.149 m x 4.299 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

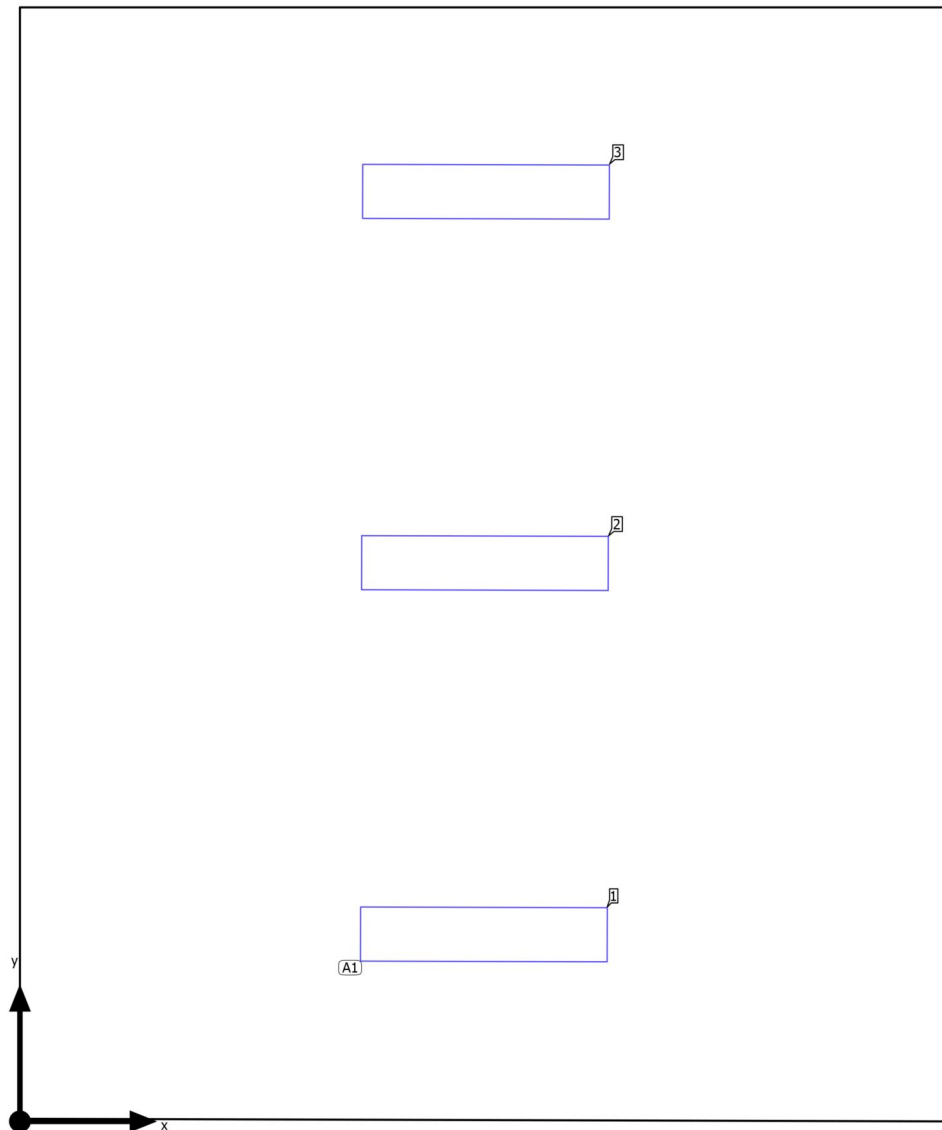
Utilization profile: Health care premises - Rooms for general use (5.37.6 Day rooms)

### Luminaire list

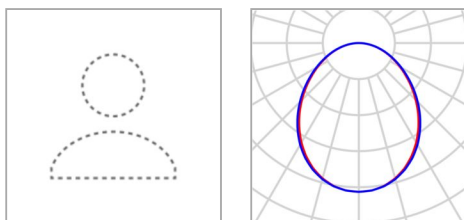
pcs.	Manufacturer	Article No.	Article name	$R_{UG}$	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	19	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 25

## Luminaire layout plan



Building 1 · Story 1 · Room 25

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	31.0 W
Article No.	2059438	$\Phi_{\text{Luminaire}}$	4349 lm
Article name	LYTEPANEL II 1200 4K DALI SM		
Fitting	1x LYTEPANEL II 1200 4K DALI 32W 4349lm		

3 x Not yet a DIALux member LYTEPANEL II 1200 4K DALI SM

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	2.145 m / 0.864 m / 2.800 m	2.145 m	0.864 m	2.800 m	1
X-direction	1 pcs., Center - center, 4.314 m	2.149 m	2.580 m	2.800 m	2
Y-direction	3 pcs., Center - center, 1.716 m	2.154 m	4.297 m	2.800 m	3
Arrangement	A1				

Building 1 · Story 1 · Room 25

**Luminaire list** $\Phi_{\text{total}}$ 

13047 lm

 $P_{\text{total}}$ 

93.0 W

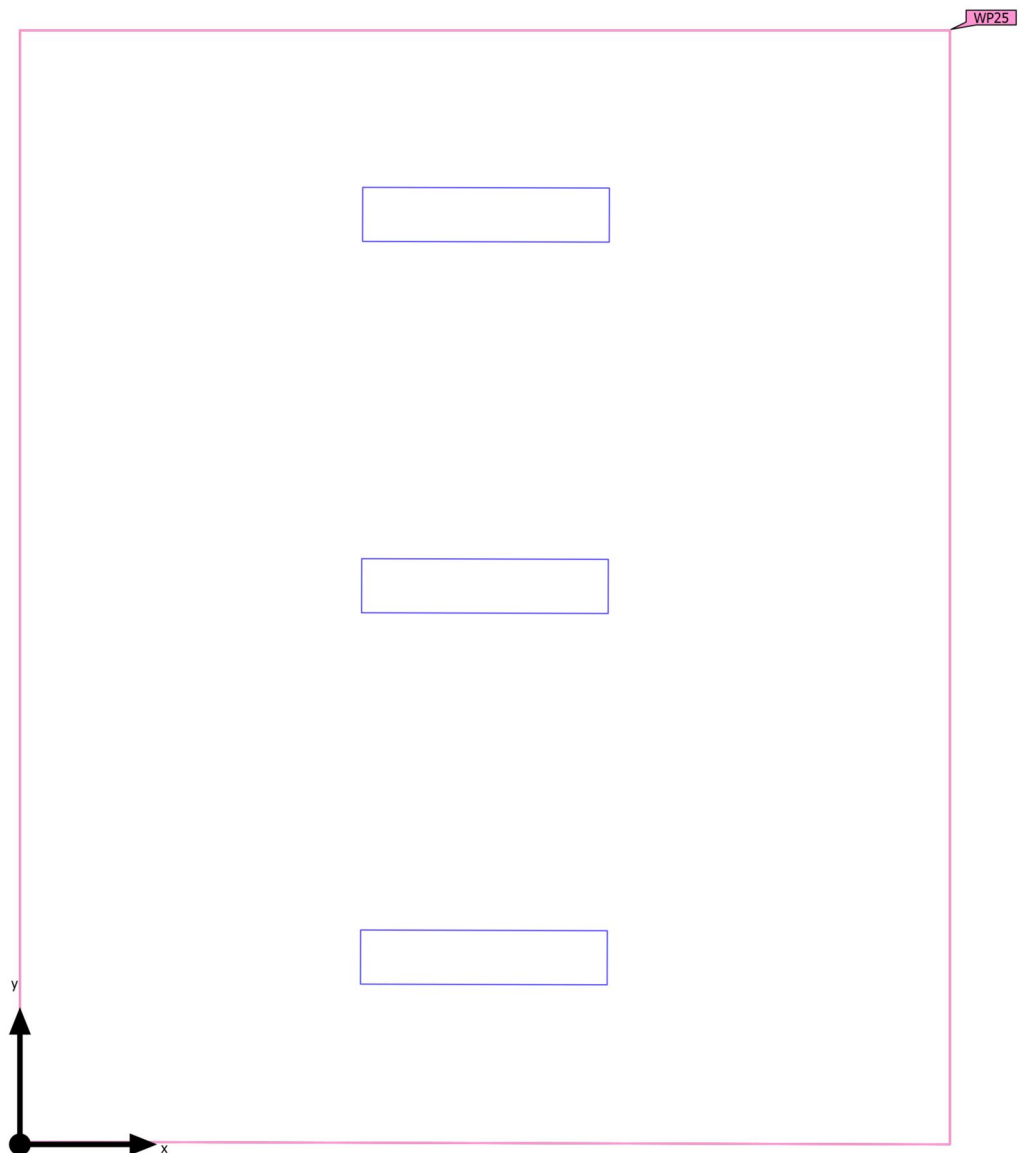
Luminous efficacy

140.3 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	2059438	LYTEPANEL II 1200 4K DALI SM	31.0 W	4349 lm	140.3 lm/W

Building 1 · Story 1 · Room 25 (Light scene 1)

## Calculation objects





Building 1 · Story 1 · Room 25 (Light scene 1)

Calculation objects

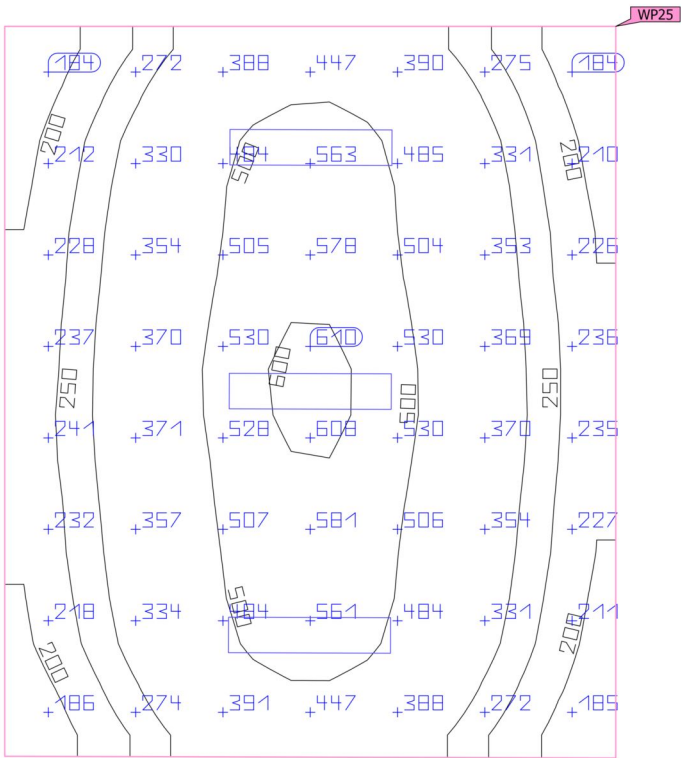
Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 25) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	372 lx ( $\geq 200$ lx) ✓	159 lx	620 lx	0.43 ( $\geq 0.40$ ) ✓	0.26	WP25

Utilization profile: Health care premises - Rooms for general use (5.37.6 Day rooms)

Building 1 · Story 1 · Room 25 (Light scene 1)

Working plane (Room 25)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$ (Target)	$g_2$	Index
Working plane (Room 25)	372 lx	159 lx	620 lx	0.43	0.26	WP25
Perpendicular illuminance (adaptive)	( $\geq 200$ lx)			( $\geq 0.40$ )		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

Utilization profile: Health care premises - Rooms for general use (5.37.6 Day 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) &lt; 3,300 K  neutral white (nw) ≥ 3,300 – 5,300 K  daylight white (dw) &gt; 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 ( $\eta$ )	<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

<b>Illuminance</b>	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
<b>Illuminance, adaptive</b>	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.
<b>Illuminance, horizontal</b>	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 $E_h$ .
<b>Illuminance, perpendicular</b>	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.
<b>Illuminance, vertical</b>	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

<b>LENI</b>	(lighting energy numeric indicator) Lighting energy numeric indicator acc. to EN 15193  Unit: kWh/m <sup>2</sup> year
<b>Light loss factor</b>	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: <math>\text{cd/m}^2</math> Formula symbol: L</p>
Luminous efficacy	<p>Ratio of the emitted luminous flux <math>\Phi</math> [lm] to the absorbed electrical power P [W] Unit: <math>\text{lm/W}</math>.</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: <math>\Phi</math></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 <math>\Phi</math> that is emitted in a certain spherical angle <math>\Omega</math>. 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.