

## Llogaritjet Fotometrike\_Shkolla Shkendija

## Preliminary remarks

Notes on planning:

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

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Site 1 - Building 1 - Story 1

### Zhveshtore

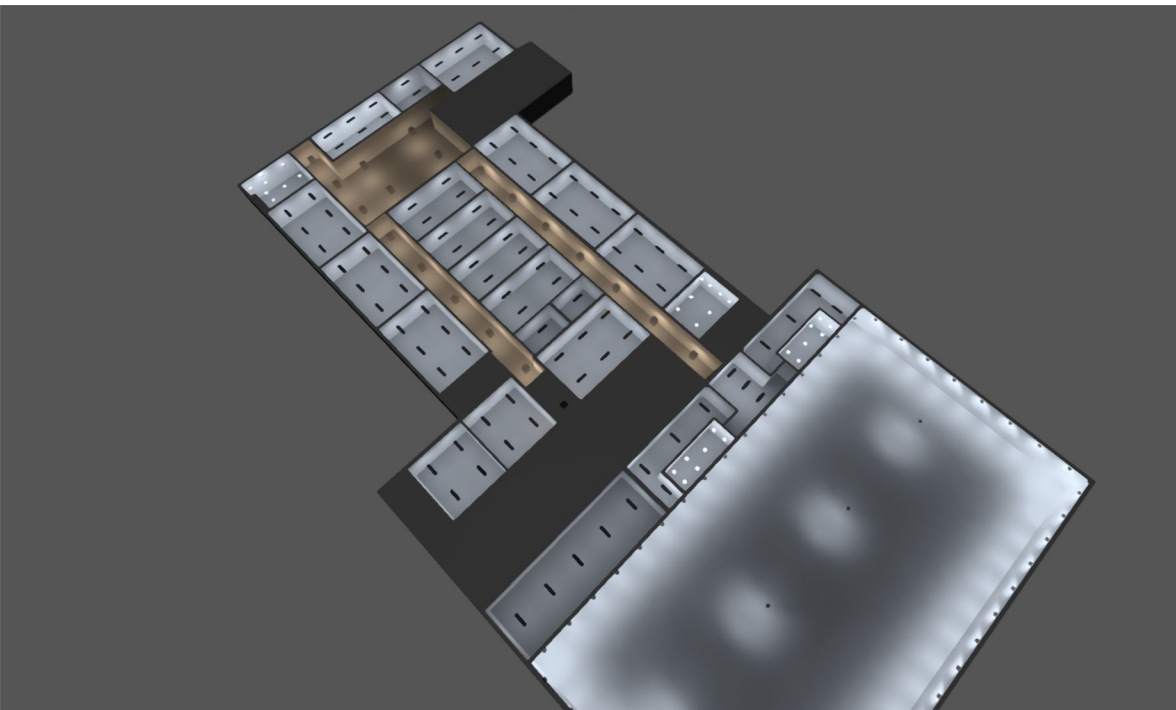
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## Description

## Luminaire list

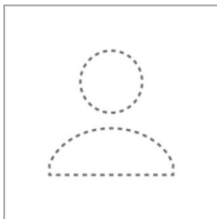
$\Phi_{\text{total}}$ 972760 lm	$P_{\text{total}}$ 8210.0 W	Luminous efficacy 118.5 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
20	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm	119.4 lm/W
98	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W
30	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W
52	Not yet a DIALux member	2824062	RAIDEN IP66 8KLM 840 ASYM	67.0 W	8700 lm	129.9 lm/W

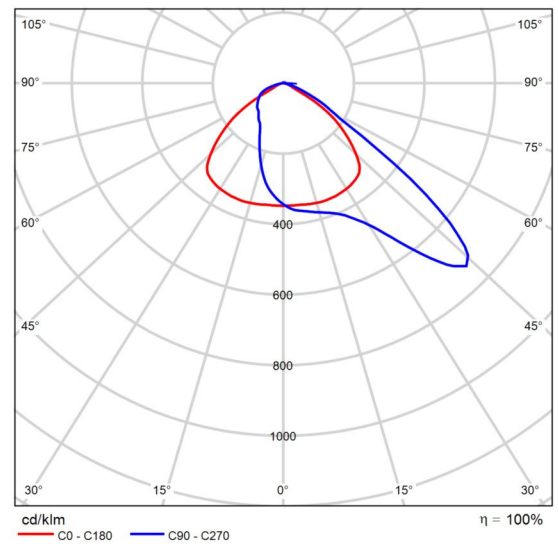


## Product data sheet

Not yet a DIALux member - RAIDEN IP66 8KLM 840 ASYM



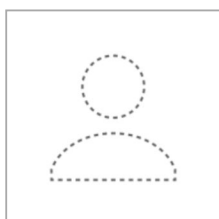
Article No.	2824062
P	67.0 W
$\Phi_{\text{Lamp}}$	8700 lm
$\Phi_{\text{Luminaire}}$	8700 lm
$\eta$	100.00 %
Luminous efficacy	129.9 lm/W
CCT	4000 K
CRI	80



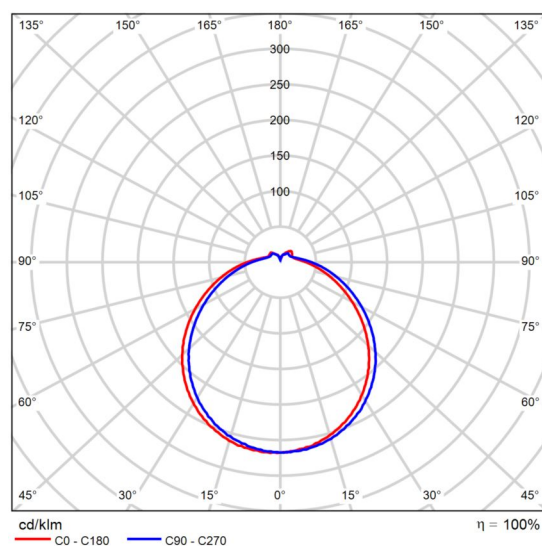
Polar LDC

## Product data sheet

Not yet a DIALux member - Start eco Surface IP44 PIR 1900lm 840 DualTone



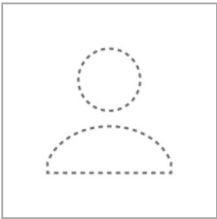
Article No.	0043438
P	23.8 W
$\Phi_{\text{Lamp}}$	1800 lm
$\Phi_{\text{Luminaire}}$	1800 lm
$\eta$	100.00 %
Luminous efficacy	75.6 lm/W
CCT	4000 K
CRI	80



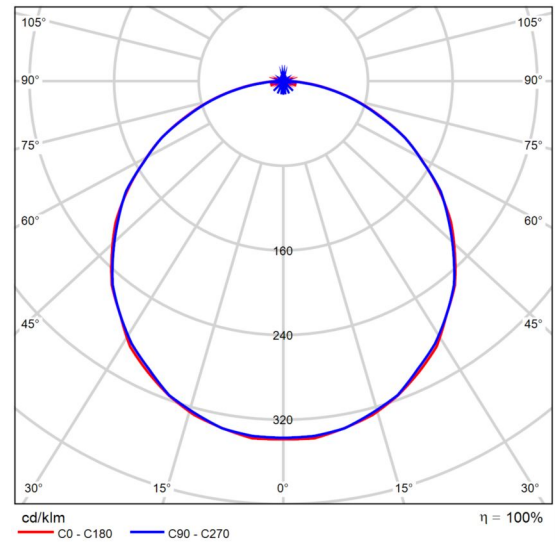
Polar LDC

Product data sheet

Not yet a DIALux member - START Panel 600x600 HE 4100Lm 830 LILO



Article No.	0042872
P	34.0 W
$\Phi_{Lamp}$	4051 lm
$\Phi_{Luminaire}$	4061 lm
$\eta$	100.25 %
Luminous efficacy	119.4 lm/W
CCT	3000 K
CRI	80



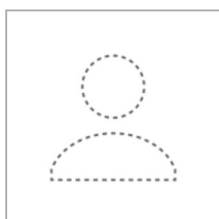
Polar LDC

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	18.7	17.7	19.0	19.2	17.3	18.7	17.6	18.9	19.2	
	3H	19.0	20.2	19.3	20.5	20.8	18.9	20.1	19.2	20.4	20.7	
	4H	19.7	20.8	20.0	21.1	21.5	19.6	20.8	19.9	21.1	21.4	
	6H	20.2	21.3	20.6	21.6	22.0	20.1	21.2	20.5	21.5	21.9	
	8H	20.4	21.5	20.8	21.8	22.1	20.3	21.3	20.7	21.7	22.0	
	12H	20.5	21.6	20.9	21.9	22.3	20.4	21.4	20.8	21.7	22.1	
4H	2H	18.0	19.2	18.4	19.5	19.8	18.0	19.2	18.3	19.5	19.8	
	3H	19.9	20.9	20.3	21.2	21.6	19.8	20.8	20.2	21.2	21.5	
	4H	20.7	21.6	21.1	22.0	22.4	20.6	21.5	21.1	21.9	22.3	
	6H	21.4	22.2	21.8	22.6	23.0	21.3	22.1	21.7	22.5	22.9	
	8H	21.6	22.4	22.1	22.8	23.2	21.5	22.2	22.0	22.7	23.1	
	12H	21.8	22.5	22.3	23.0	23.4	21.7	22.3	22.1	22.8	23.2	
8H	4H	21.0	21.8	21.5	22.2	22.6	21.0	21.7	21.4	22.1	22.6	
	6H	21.9	22.5	22.4	22.9	23.4	21.8	22.4	22.3	22.8	23.3	
	8H	22.2	22.8	22.7	23.3	23.7	22.1	22.6	22.6	23.1	23.6	
	12H	22.5	23.0	23.1	23.5	24.0	22.3	22.8	22.8	23.3	23.8	
12H	4H	21.1	21.7	21.5	22.2	22.6	21.0	21.7	21.5	22.1	22.6	
	6H	22.0	22.5	22.5	23.0	23.5	21.9	22.4	22.4	22.9	23.4	
	8H	22.4	22.8	22.9	23.3	23.8	22.2	22.7	22.7	23.2	23.7	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1					
S = 1.5H		+0.2 / -0.3					+0.2 / -0.3					
S = 2.0H		+0.3 / -0.6					+0.3 / -0.6					
Standard table		BK06					BK06					
Correction Summand		5.0					4.9					
Corrected glare indices referring to 4051lm Total luminous flux												

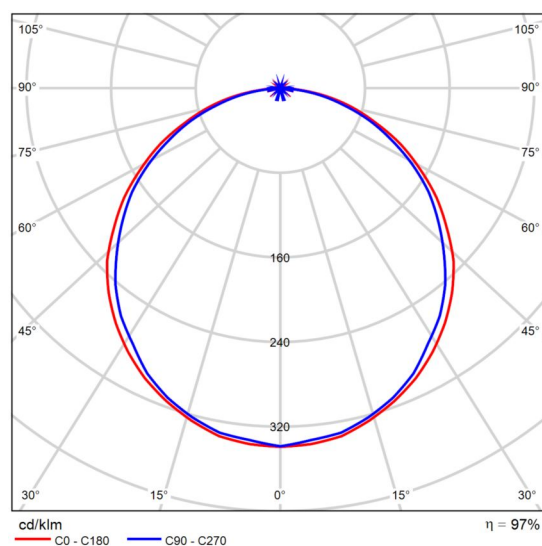
UGR diagram (SHR: 0.25)

## Product data sheet

Not yet a DIALux member - START Panel 1200x300 HE 4100lm 840 LILO



Article No.	0042879
P	34.0 W
$\Phi_{\text{Lamp}}$	4053 lm
$\Phi_{\text{Luminaire}}$	3930 lm
$\eta$	96.96 %
Luminous efficacy	115.6 lm/W
CCT	4000 K
CRI	80



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	17.0	18.4	17.3	18.6	18.9	17.1	18.5	17.4	18.7	19.0	
	3H	18.5	19.7	18.8	20.0	20.3	18.6	19.8	18.9	20.1	20.4	
	4H	19.1	20.2	19.4	20.5	20.9	19.2	20.3	19.5	20.6	20.9	
	6H	19.5	20.6	19.9	20.9	21.2	19.6	20.7	19.9	21.0	21.3	
	8H	19.6	20.6	20.0	21.0	21.3	19.7	20.7	20.1	21.1	21.4	
	12H	19.6	20.6	20.0	21.0	21.3	19.7	20.7	20.1	21.1	21.4	
4H	2H	17.7	18.8	18.0	19.1	19.4	17.7	18.9	18.1	19.2	19.5	
	3H	19.3	20.3	19.7	20.7	21.0	19.4	20.4	19.8	20.7	21.1	
	4H	20.0	20.9	20.4	21.3	21.7	20.1	21.0	20.5	21.3	21.7	
	6H	20.5	21.3	21.0	21.7	22.1	20.6	21.4	21.0	21.8	22.2	
	8H	20.7	21.4	21.1	21.8	22.3	20.7	21.5	21.2	21.9	22.3	
	12H	20.8	21.4	21.2	21.9	22.3	20.8	21.5	21.3	21.9	22.4	
8H	4H	20.3	21.0	20.7	21.4	21.8	20.3	21.0	20.8	21.4	21.9	
	6H	20.9	21.5	21.4	21.9	22.4	20.9	21.5	21.4	22.0	22.4	
	8H	21.1	21.6	21.6	22.1	22.6	21.1	21.7	21.6	22.1	22.6	
	12H	21.2	21.7	21.8	22.2	22.7	21.3	21.7	21.8	22.2	22.7	
	4H	20.3	20.9	20.7	21.4	21.8	20.3	21.0	20.8	21.4	21.9	
	6H	20.9	21.5	21.4	21.9	22.4	21.0	21.5	21.5	22.0	22.5	
12H	8H	21.2	21.6	21.7	22.1	22.6	21.2	21.7	21.7	22.1	22.7	
	8H	21.2	21.6	21.7	22.1	22.6	21.2	21.7	21.7	22.1	22.7	
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 / -0.3					
S = 2.0H		+0.5 / -0.7					+0.5 / -0.6					
Standard table		BK05					BK05					
Correction Summand		3.6					3.6					
Corrected glare indices referring to 4053lm Total luminous flux												

UGR diagram (SHR: 0.25)

Building 1

**Luminaire list**

$\Phi_{\text{total}}$ 972760 lm	$P_{\text{total}}$ 8210.0 W	Luminous efficacy 118.5 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
20	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm	119.4 lm/W
98	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W
30	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W
52	Not yet a DIALux member	2824062	RAIDEN IP66 8KLM 840 ASYM	67.0 W	8700 lm	129.9 lm/W

Building 1 · Story 1 (Light scene 1)

## Room List



Building 1 · Story 1 (Light scene 1)

**Room List**

Depo

<b>P<sub>total</sub></b> 34.0 W	<b>A<sub>Room</sub></b> 12.46 m <sup>2</sup>	<b>Lighting power density</b> 2.73 W/m <sup>2</sup> = 1.30 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 210 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
1	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Depo

<b>P<sub>total</sub></b> 34.0 W	<b>A<sub>Room</sub></b> 11.87 m <sup>2</sup>	<b>Lighting power density</b> 2.86 W/m <sup>2</sup> = 1.31 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 218 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
1	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Depo

<b>P<sub>total</sub></b> 68.0 W	<b>A<sub>Room</sub></b> 22.67 m <sup>2</sup>	<b>Lighting power density</b> 3.00 W/m <sup>2</sup> = 1.18 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 255 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
2	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

Hyrje

$P_{\text{total}}$ 204.0 W	$A_{\text{Room}}$ 37.47 m <sup>2</sup>	Lighting power density 5.44 W/m <sup>2</sup> = 1.16 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 469 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Klase/Classroom

$P_{\text{total}}$ 204.0 W	$A_{\text{Room}}$ 54.18 m <sup>2</sup>	Lighting power density 3.77 W/m <sup>2</sup> = 1.06 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 355 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Klase/Classroom

$P_{\text{total}}$ 204.0 W	$A_{\text{Room}}$ 53.53 m <sup>2</sup>	Lighting power density 3.81 W/m <sup>2</sup> = 1.07 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	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm



Building 1 · Story 1 (Light scene 1)

**Room List**

Klase/Classroom

$P_{total}$ 204.0 W	$A_{Room}$ 54.08 m <sup>2</sup>	Lighting power density 3.77 W/m <sup>2</sup> = 1.06 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 355 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Klase/Classroom

$P_{total}$ 136.0 W	$A_{Room}$ 42.14 m <sup>2</sup>	Lighting power density 3.23 W/m <sup>2</sup> = 1.10 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 292 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Klase/Classroom

$P_{total}$ 136.0 W	$A_{Room}$ 39.60 m <sup>2</sup>	Lighting power density 3.43 W/m <sup>2</sup> = 1.12 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 307 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

Klase/Classroom

<b>P<sub>total</sub></b> 136.0 W	<b>A<sub>Room</sub></b> 39.60 m <sup>2</sup>	<b>Lighting power density</b> 3.43 W/m <sup>2</sup> = 1.13 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 305 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Klase/Classroom

<b>P<sub>total</sub></b> 136.0 W	<b>A<sub>Room</sub></b> 41.31 m <sup>2</sup>	<b>Lighting power density</b> 3.29 W/m <sup>2</sup> = 1.11 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 297 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Klase/Classroom

<b>P<sub>total</sub></b> 204.0 W	<b>A<sub>Room</sub></b> 53.42 m <sup>2</sup>	<b>Lighting power density</b> 3.82 W/m <sup>2</sup> = 1.05 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 363 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

Klase/Classroom

<b>P<sub>total</sub></b> 204.0 W	<b>A<sub>Room</sub></b> 52.49 m <sup>2</sup>	<b>Lighting power density</b> 3.89 W/m <sup>2</sup> = 1.07 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 362 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Klase/Classroom

<b>P<sub>total</sub></b> 204.0 W	<b>A<sub>Room</sub></b> 52.40 m <sup>2</sup>	<b>Lighting power density</b> 3.89 W/m <sup>2</sup> = 1.07 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 363 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Klase/Classroom

<b>P<sub>total</sub></b> 204.0 W	<b>A<sub>Room</sub></b> 52.63 m <sup>2</sup>	<b>Lighting power density</b> 3.88 W/m <sup>2</sup> = 1.07 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 362 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

Klase/Classroom

<b>P<sub>total</sub></b> 136.0 W	<b>A<sub>Room</sub></b> 35.39 m <sup>2</sup>	<b>Lighting power density</b> 3.84 W/m <sup>2</sup> = 1.09 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 352 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Klase/Classroom

<b>P<sub>total</sub></b> 136.0 W	<b>A<sub>Room</sub></b> 35.81 m <sup>2</sup>	<b>Lighting power density</b> 3.80 W/m <sup>2</sup> = 1.12 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 341 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Klase/Classroom

<b>P<sub>total</sub></b> 204.0 W	<b>A<sub>Room</sub></b> 54.29 m <sup>2</sup>	<b>Lighting power density</b> 3.76 W/m <sup>2</sup> = 1.07 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 352 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

Koridor

<b>P<sub>total</sub></b> 102.0 W	<b>A<sub>Room</sub></b> 27.88 m <sup>2</sup>	<b>Lighting power density</b> 3.66 W/m <sup>2</sup> = 1.18 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 311 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
3	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Koridor

<b>P<sub>total</sub></b> 170.0 W	<b>A<sub>Room</sub></b> 78.49 m <sup>2</sup>	<b>Lighting power density</b> 2.17 W/m <sup>2</sup> = 1.01 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 214 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
5	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Koridor

<b>P<sub>total</sub></b> 238.0 W	<b>A<sub>Room</sub></b> 82.05 m <sup>2</sup>	<b>Lighting power density</b> 2.90 W/m <sup>2</sup> = 1.31 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 221 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
7	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

Koridor

<b>P<sub>total</sub></b> 170.0 W	<b>A<sub>Room</sub></b> 57.24 m <sup>2</sup>	<b>Lighting power density</b> 2.97 W/m <sup>2</sup> = 1.32 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 224 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
5	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Koridor

<b>P<sub>total</sub></b> 238.0 W	<b>A<sub>Room</sub></b> 140.30 m <sup>2</sup>	<b>Lighting power density</b> 1.70 W/m <sup>2</sup> = 1.02 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 167 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
7	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Salla Sportive

<b>P<sub>total</sub></b> 3484.0 W	<b>A<sub>Room</sub></b> 1007.60 m <sup>2</sup>	<b>Lighting power density</b> 3.46 W/m <sup>2</sup> = 0.97 W/m <sup>2</sup> /100 lx (Room)	<b>E<sub>perpendicular</sub> (Working plane)</b> 357 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ <sub>Luminaire</sub>
52	Not yet a DIALux member	2824062	RAIDEN IP66 8KLM 840 ASYM	67.0 W	8700 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

Tualet

$P_{\text{total}}$ 190.4 W	$A_{\text{Room}}$ 25.59 m <sup>2</sup>	Lighting power density 7.44 W/m <sup>2</sup> = 2.14 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 348 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
8	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm

Tualet

$P_{\text{total}}$ 166.6 W	$A_{\text{Room}}$ 15.19 m <sup>2</sup>	Lighting power density 10.96 W/m <sup>2</sup> = 2.54 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 432 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
7	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm

Tualet

$P_{\text{total}}$ 166.6 W	$A_{\text{Room}}$ 15.60 m <sup>2</sup>	Lighting power density 10.68 W/m <sup>2</sup> = 2.55 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 419 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
7	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm

Building 1 · Story 1 (Light scene 1)

**Room List**

Tualet

$P_{total}$ 190.4 W	$A_{Room}$ 25.87 m <sup>2</sup>	Lighting power density 7.36 W/m <sup>2</sup> = 2.13 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 346 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
8	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm

Zhveshtore

$P_{total}$ 136.0 W	$A_{Room}$ 37.00 m <sup>2</sup>	Lighting power density 3.68 W/m <sup>2</sup> = 1.26 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 292 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Zhveshtore

$P_{total}$ 136.0 W	$A_{Room}$ 31.23 m <sup>2</sup>	Lighting power density 4.36 W/m <sup>2</sup> = 1.36 W/m <sup>2</sup> /100 lx (Room)	$\bar{E}_{perpendicular}$ (Working plane) 320 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{Luminaire}$
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm



Building 1 · Story 1

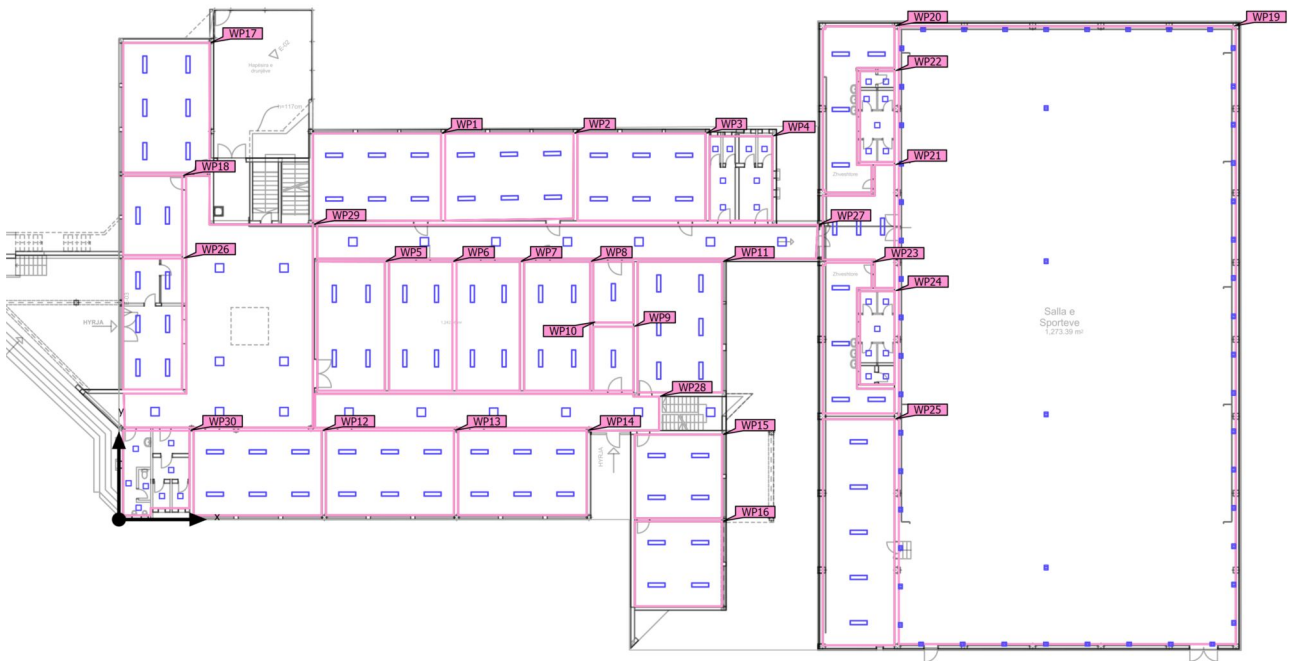
**Luminaire list**

$\Phi_{\text{total}}$ 972760 lm	$P_{\text{total}}$ 8210.0 W	Luminous efficacy 118.5 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
20	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm	119.4 lm/W
98	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W
30	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W
52	Not yet a DIALux member	2824062	RAIDEN IP66 8KLM 840 ASYM	67.0 W	8700 lm	129.9 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)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	355 lx ( $\geq 300$ lx) ✓	213 lx	457 lx	0.60	0.47	WP1
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	356 lx ( $\geq 300$ lx) ✓	212 lx	462 lx	0.60	0.46	WP2
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	355 lx ( $\geq 300$ lx) ✓	213 lx	458 lx	0.60	0.47	WP3
Working plane (Tualet) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	348 lx ( $\geq 200$ lx) ✓	226 lx	457 lx	0.65	0.49	WP4
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	292 lx ( $\geq 290$ lx) ✓	158 lx	426 lx	0.54	0.37	WP5
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	307 lx ( $\geq 300$ lx) ✓	167 lx	446 lx	0.54	0.37	WP6
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	305 lx ( $\geq 300$ lx) ✓	165 lx	442 lx	0.54	0.37	WP7
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	297 lx ( $\geq 290$ lx) ✓	163 lx	433 lx	0.55	0.38	WP8
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	210 lx ( $\geq 200$ lx) ✓	122 lx	340 lx	0.58	0.36	WP9
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	218 lx ( $\geq 200$ lx) ✓	129 lx	348 lx	0.59	0.37	WP10
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	363 lx ( $\geq 300$ lx) ✓	215 lx	461 lx	0.59	0.47	WP11

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

## Calculation objects

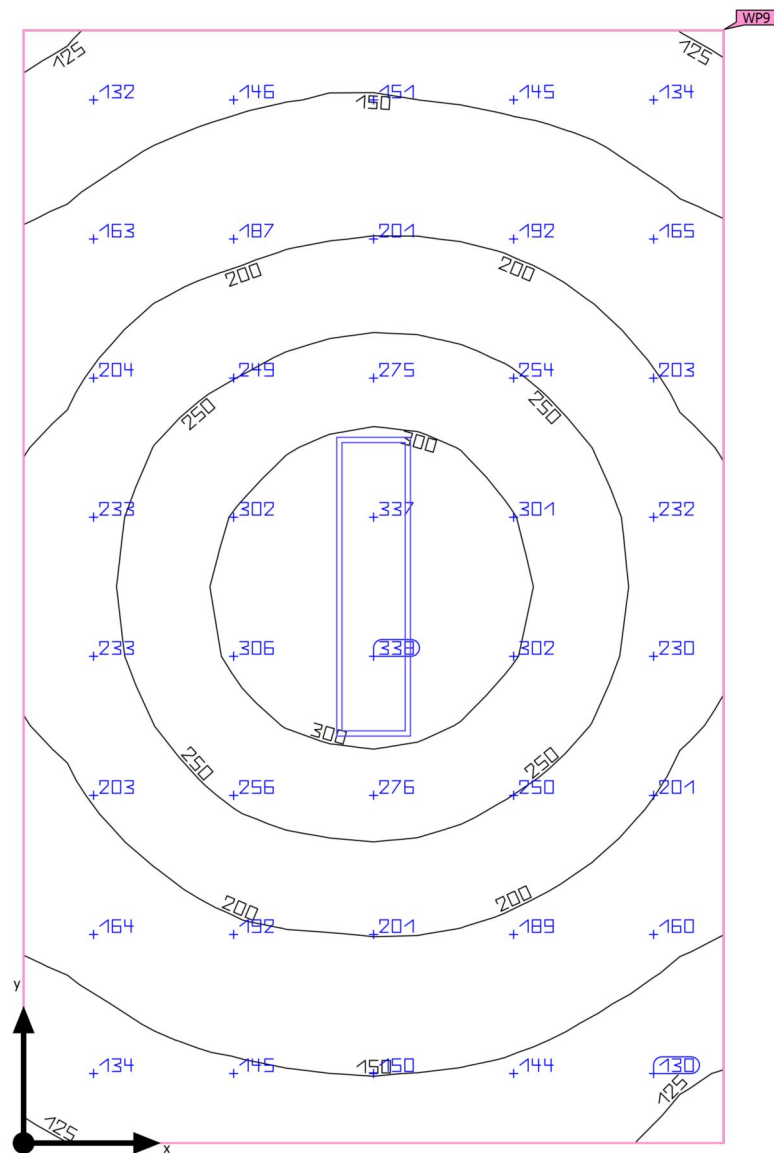
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	362 lx ( $\geq 300$ lx) ✓	218 lx	465 lx	0.60	0.47	WP12
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	363 lx ( $\geq 300$ lx) ✓	214 lx	467 lx	0.59	0.46	WP13
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	362 lx ( $\geq 300$ lx) ✓	212 lx	468 lx	0.59	0.45	WP14
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	352 lx ( $\geq 300$ lx) ✓	214 lx	447 lx	0.61	0.48	WP15
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	341 lx ( $\geq 300$ lx) ✓	208 lx	442 lx	0.61	0.47	WP16
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	352 lx ( $\geq 300$ lx) ✓	212 lx	461 lx	0.60	0.46	WP17
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	255 lx ( $\geq 200$ lx) ✓	125 lx	423 lx	0.49	0.30	WP18
Working plane (Salla Sportive) Perpendicular illuminance (adaptive) Height: 1.000 m, Wall zone: 0.000 m	357 lx ( $\geq 300$ lx) ✓	51.6 lx	2012 lx	0.14	0.026	WP19
Working plane (Zhveshtore) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	292 lx ( $\geq 200$ lx) ✓	121 lx	446 lx	0.41	0.27	WP20
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	311 lx ( $\geq 200$ lx) ✓	59.8 lx	548 lx	0.19	0.11	WP21
Working plane (Tualet) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	432 lx ( $\geq 200$ lx) ✓	304 lx	555 lx	0.70	0.55	WP22
Working plane (Zhveshtore) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	320 lx ( $\geq 200$ lx) ✓	127 lx	519 lx	0.40	0.24	WP23

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

## Calculation objects

Working plane (Tualet) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	419 lx (≥ 200 lx) ✓	305 lx	509 lx	0.73	0.60	WP24
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	214 lx (≥ 200 lx) ✓	101 lx	367 lx	0.47	0.28	WP25
Working plane (Hyrje) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	469 lx (≥ 200 lx) ✓	298 lx	573 lx	0.64	0.52	WP26
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	221 lx (≥ 100 lx) ✓	114 lx	341 lx	0.52	0.33	WP27
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	224 lx (≥ 100 lx) ✓	114 lx	353 lx	0.51	0.32	WP28
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	167 lx (≥ 100 lx) ✓	9.90 lx	345 lx	0.059	0.029	WP29
Working plane (Tualet) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	346 lx (≥ 200 lx) ✓	204 lx	462 lx	0.59	0.44	WP30

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

**Summary**

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

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	210 lx	$\geq 200$ lx	✓	WP9
	$g_1$	0.58	-	-	WP9
Consumption values	Consumption	65 kWh/a	max. 450 kWh/a	✓	
Room	Lighting power density	2.73 W/m <sup>2</sup>	-	-	
		1.30 W/m <sup>2</sup> /100 lx	-	-	

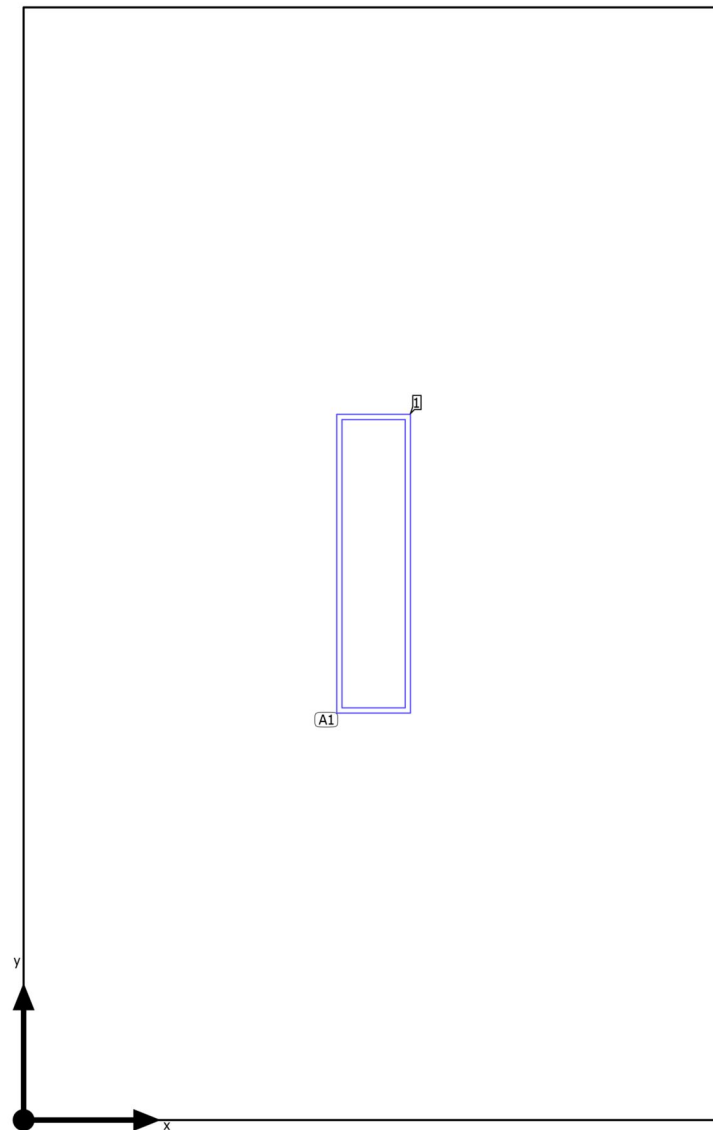
Utilization profile: Health care premises - Rooms for general use, Day rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
1	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Depo

## Luminaire layout plan





Building 1 · Story 1 · Depo

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

1 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.400 m / 2.225 m / 2.800 m	1.400 m	2.225 m	2.800 m	1
X-direction	1 pcs., Center - center, 2.800 m				
Y-direction	1 pcs., Center - center, 4.450 m				
Arrangement	A1				

Building 1 · Story 1 · Depo

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

3930 lm

 $P_{\text{total}}$ 

34.0 W

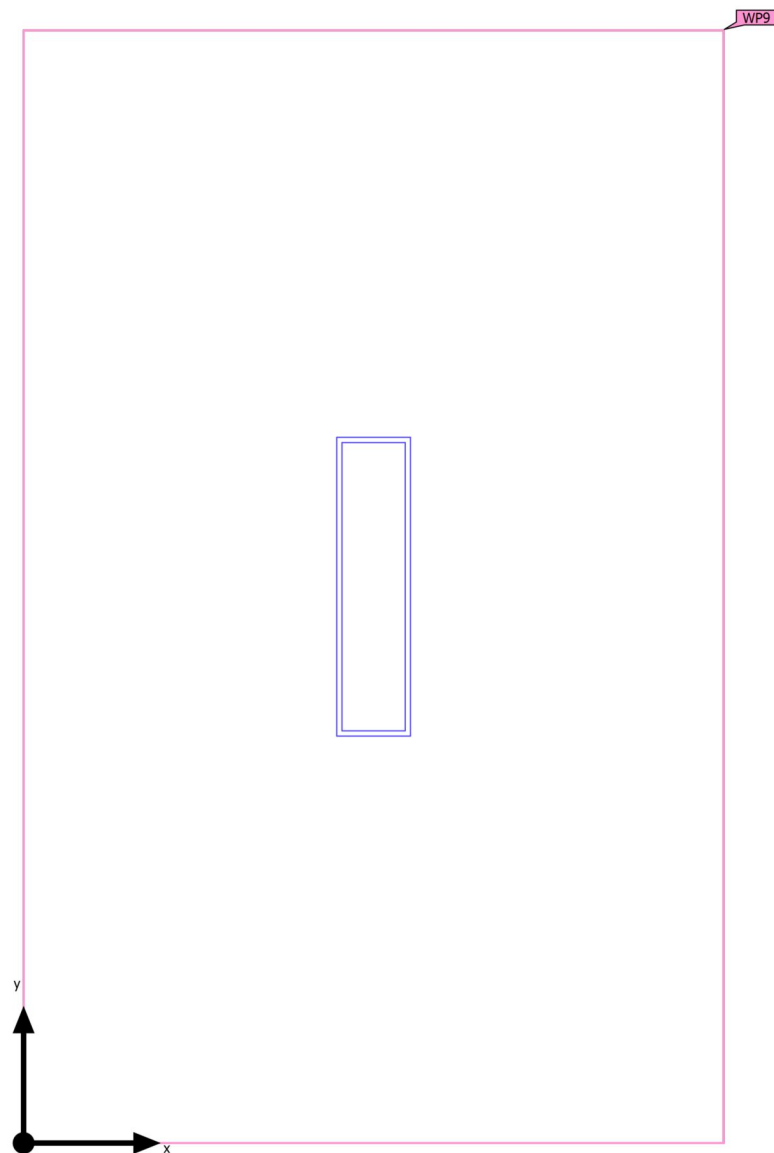
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
1	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

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

## Calculation objects



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

**Calculation objects**

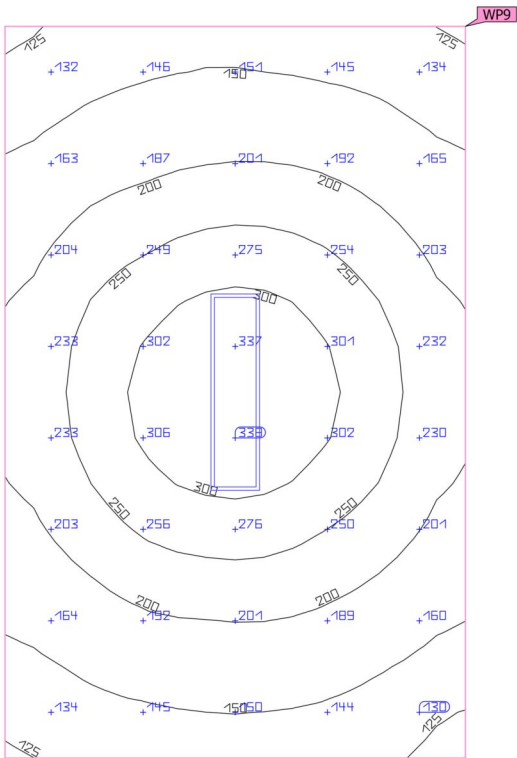
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	210 lx ( $\geq 200$ lx) ✓	122 lx	340 lx	0.58	0.36	WP9

Utilization profile: Health care premises - Rooms for general use, Day rooms

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

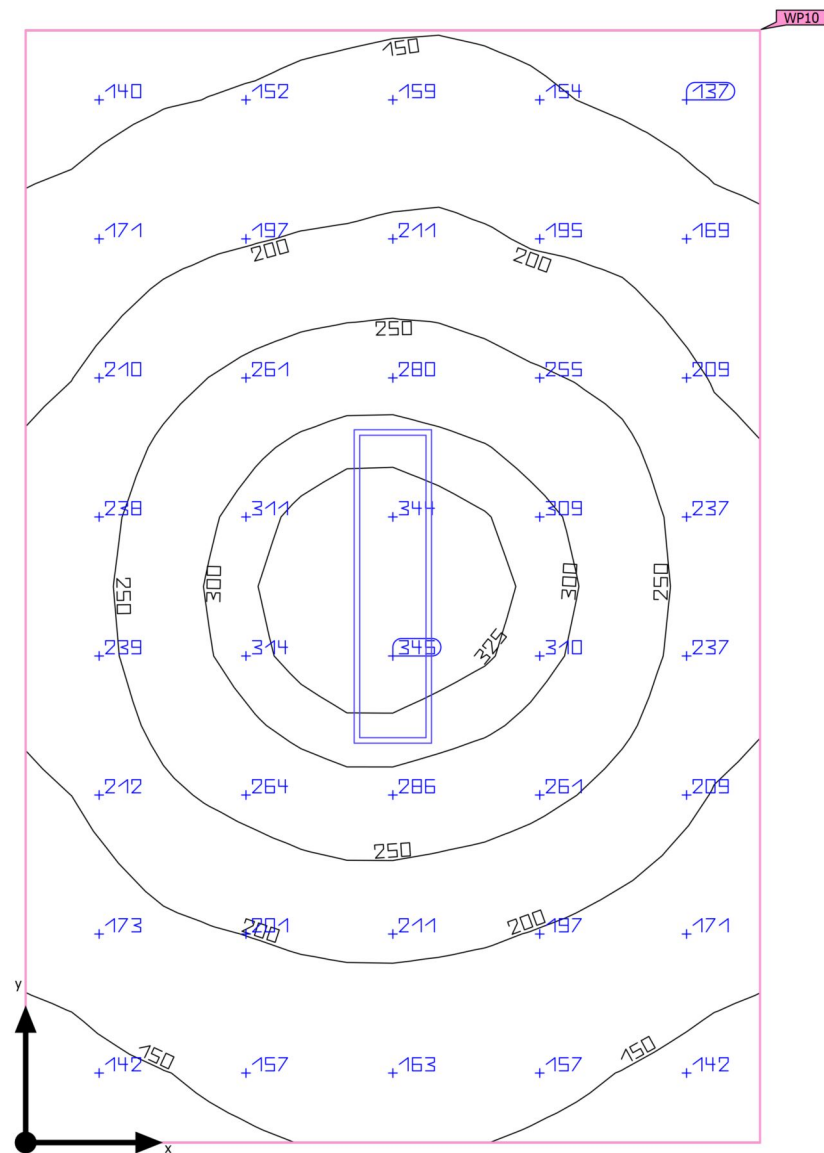
Working plane (Depo)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	210 lx (≥ 200 lx) ✓	122 lx	340 lx	0.58	0.36	WP9

Utilization profile: Health care premises - Rooms for general use, Day rooms

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

**Summary**

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

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	218 lx	$\geq 200$ lx	✓	WP10
	$g_1$	0.59	-	-	WP10
Consumption values	Consumption	65 kWh/a	max. 450 kWh/a	✓	
Room	Lighting power density	2.86 W/m <sup>2</sup>	-	-	
		1.31 W/m <sup>2</sup> /100 lx	-	-	

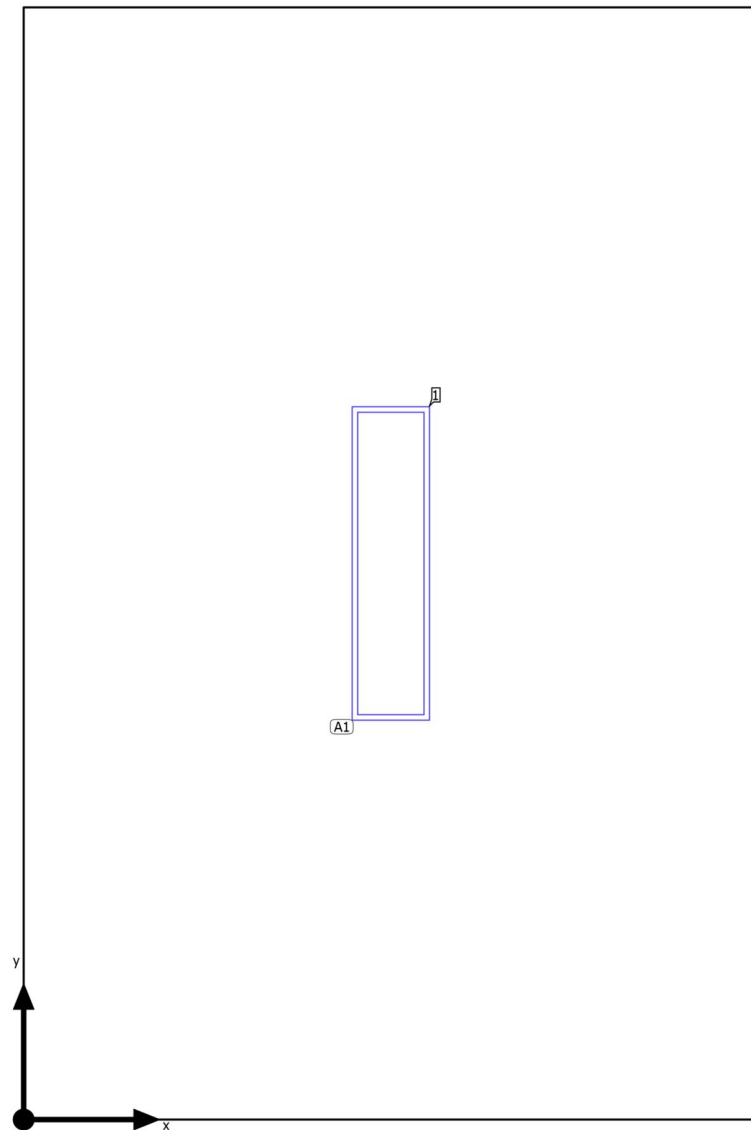
Utilization profile: Health care premises - Rooms for general use, Day rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
1	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Depo

## Luminaire layout plan





Building 1 · Story 1 · Depo

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

1 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.400 m / 2.120 m / 2.800 m	1.400 m	2.120 m	2.800 m	1
X-direction	1 pcs., Center - center, 2.800 m				
Y-direction	1 pcs., Center - center, 4.240 m				
Arrangement	A1				

Building 1 · Story 1 · Depo

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

3930 lm

 $P_{\text{total}}$ 

34.0 W

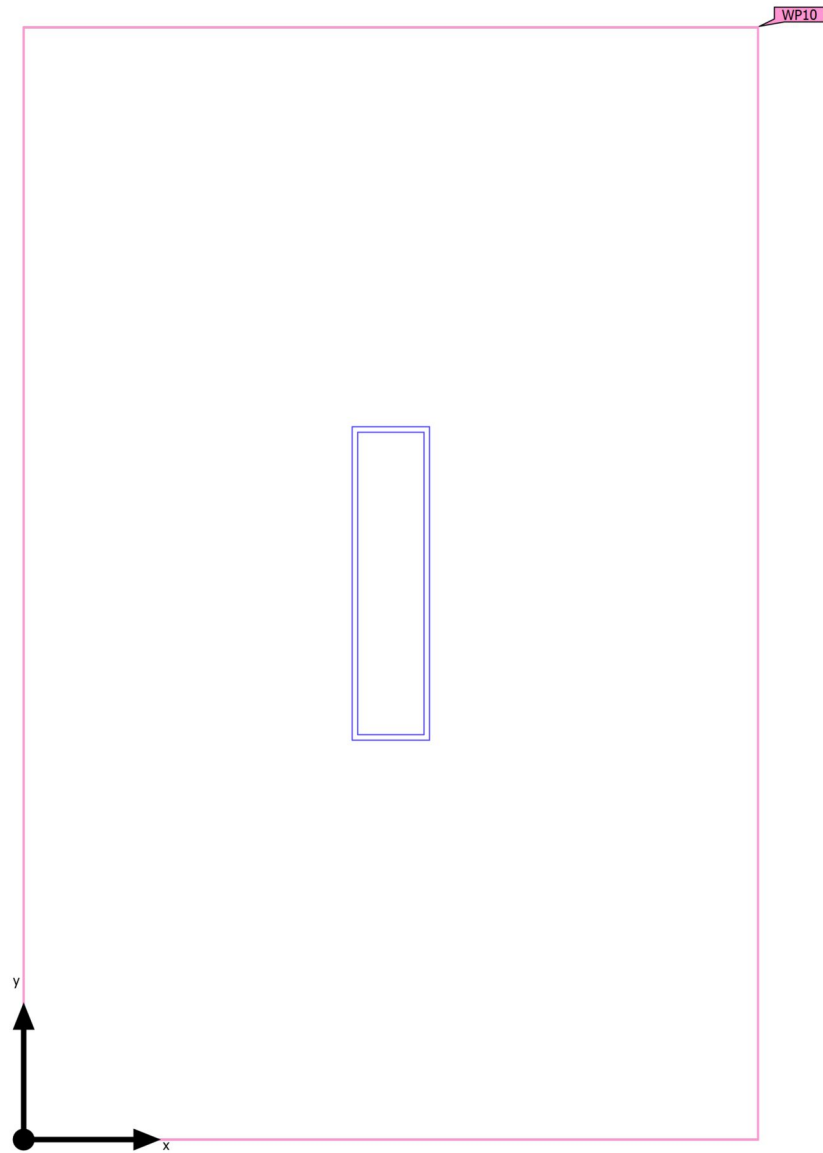
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
1	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

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

## Calculation objects



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

**Calculation objects**

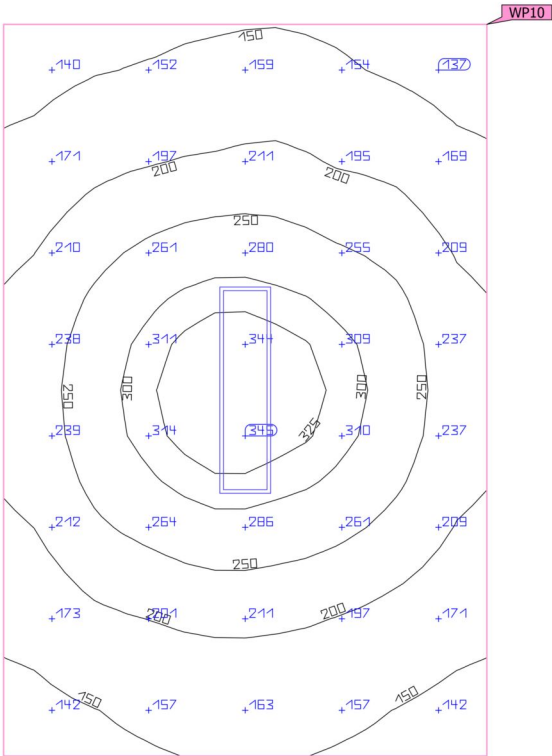
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	218 lx ( $\geq 200$ lx) ✓	129 lx	348 lx	0.59	0.37	WP10

Utilization profile: Health care premises - Rooms for general use, Day rooms

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

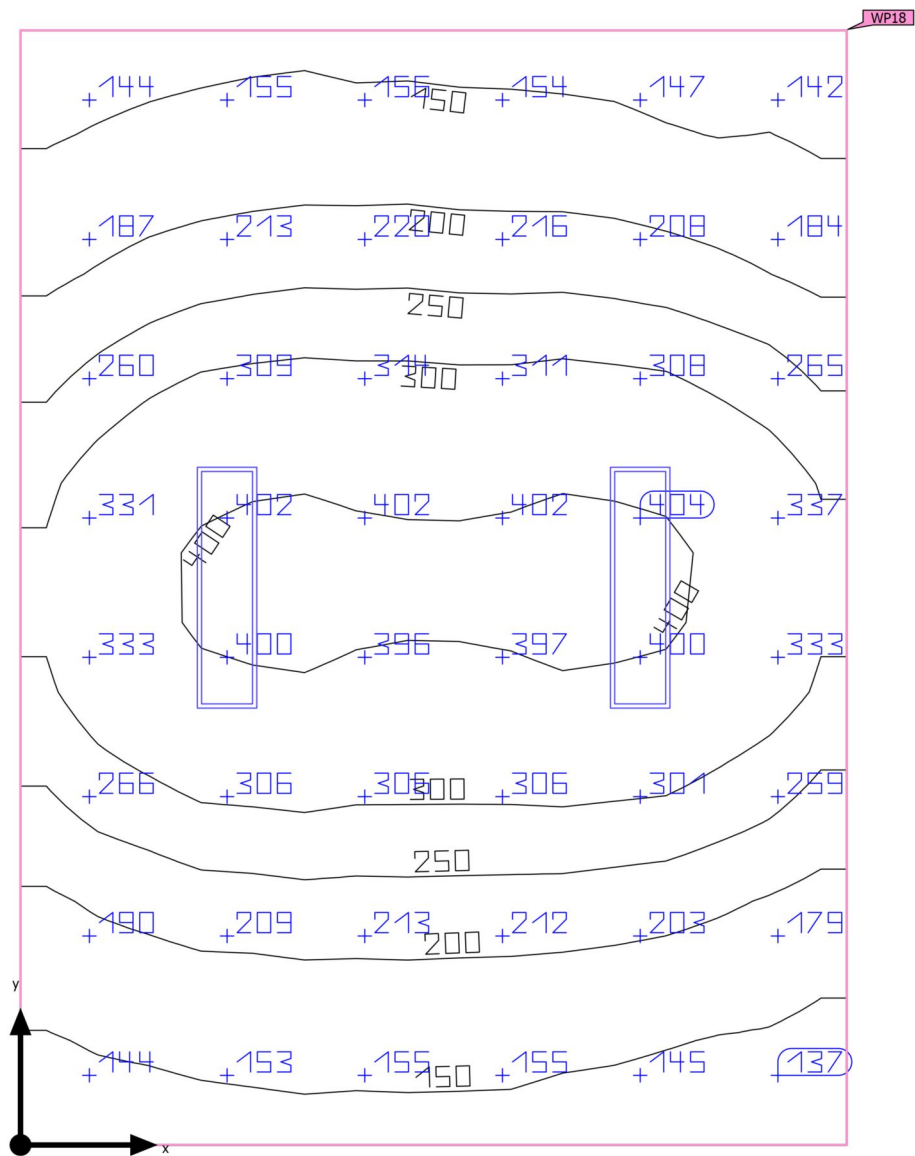
Working plane (Depo)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Depo)	218 lx	129 lx	348 lx	0.59	0.37	WP10
Perpendicular illuminance (adaptive)	(≥ 200 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Health care premises - Rooms for general use, Day rooms

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

**Summary**

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

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	255 lx	$\geq 200$ lx	✓	WP18
	$g_1$	0.49	-	-	WP18
Consumption values	Consumption	130 kWh/a	max. 800 kWh/a	✓	
Room	Lighting power density	3.00 W/m <sup>2</sup>	-	-	
		1.18 W/m <sup>2</sup> /100 lx	-	-	

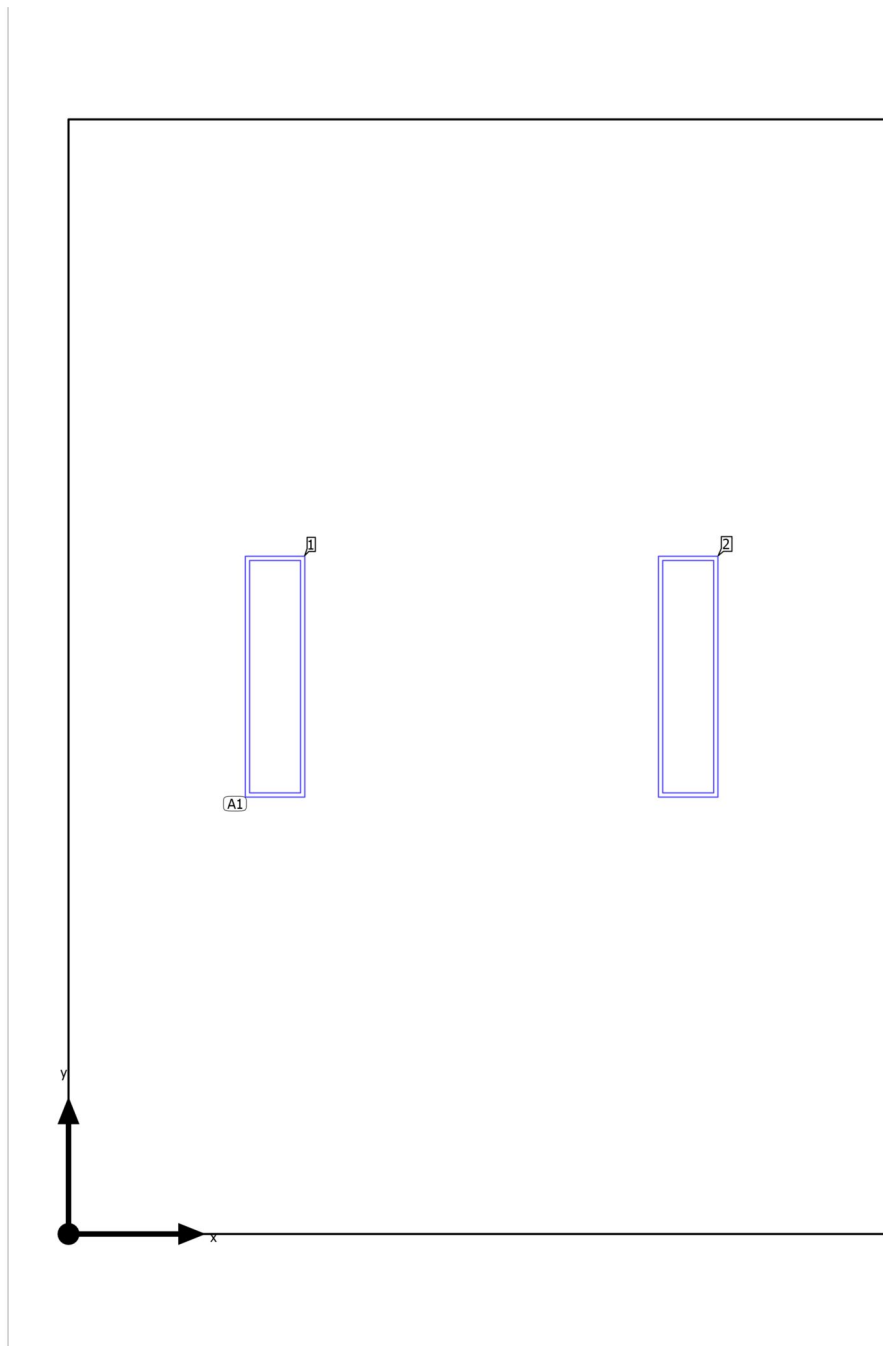
Utilization profile: Health care premises - Rooms for general use, Day rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
2	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Depo

## Luminaire layout plan





Building 1 · Story 1 · Depo

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

2 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.025 m / 2.765 m / 2.800 m	1.025 m	2.765 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.050 m	3.075 m	2.765 m	2.800 m	2
Y-direction	1 pcs., Center - center, 5.530 m				
Arrangement	A1				

Building 1 · Story 1 · Depo

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

7860 lm

 $P_{\text{total}}$ 

68.0 W

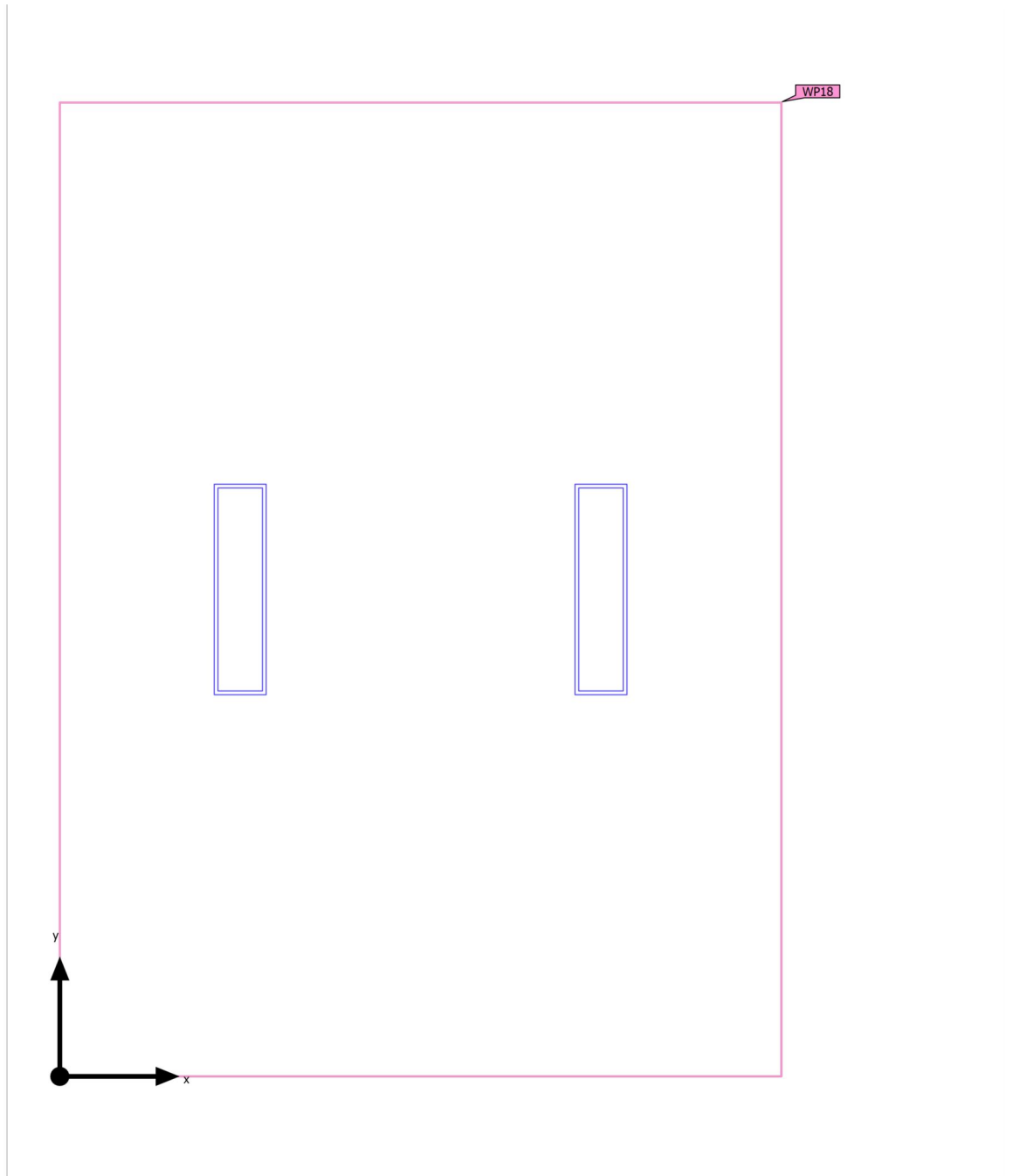
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
2	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

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

## Calculation objects



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

**Calculation objects**

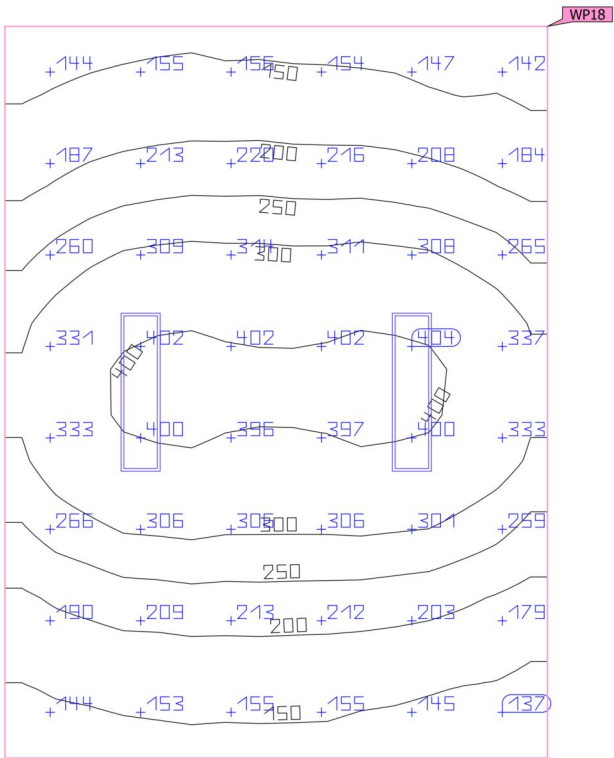
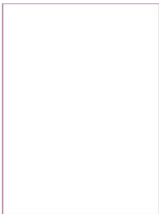
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	255 lx ( $\geq 200$ lx) ✓	125 lx	423 lx	0.49	0.30	WP18

Utilization profile: Health care premises - Rooms for general use, Day rooms

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

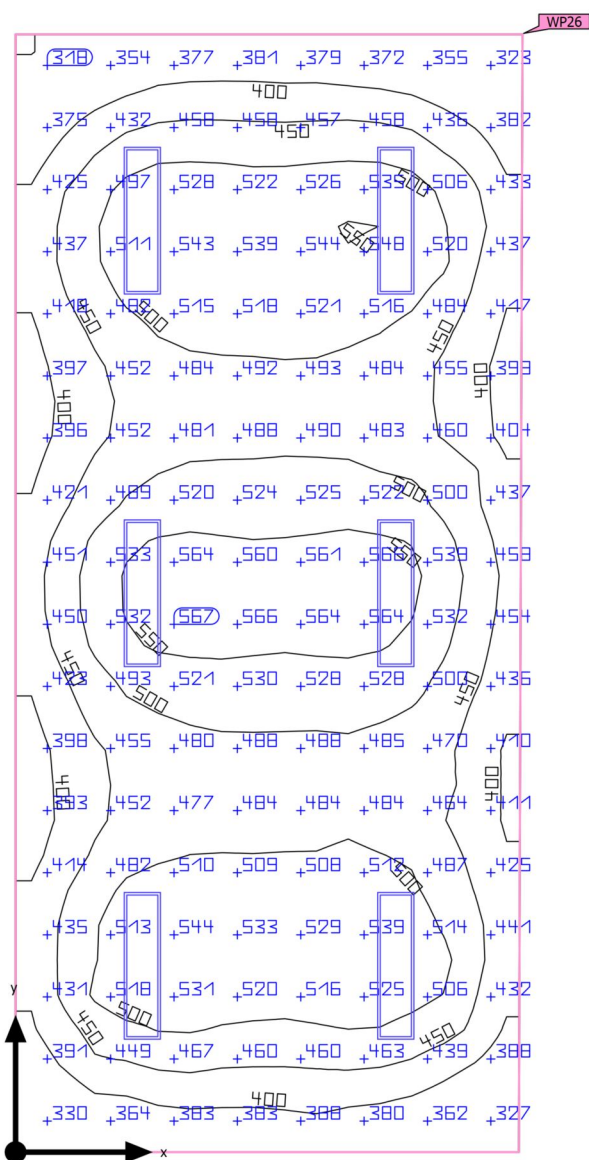
Working plane (Depo)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	255 lx (≥ 200 lx) ✓	125 lx	423 lx	0.49	0.30	WP18

Utilization profile: Health care premises - Rooms for general use, Day rooms

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

**Summary**

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

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	469 lx	$\geq 200$ lx	✓	WP26
	$g_1$	0.64	-	-	WP26
Consumption values	Consumption	390 kWh/a	max. 1350 kWh/a	✓	
Room	Lighting power density	5.44 W/m <sup>2</sup>	-	-	
		1.16 W/m <sup>2</sup> /100 lx	-	-	

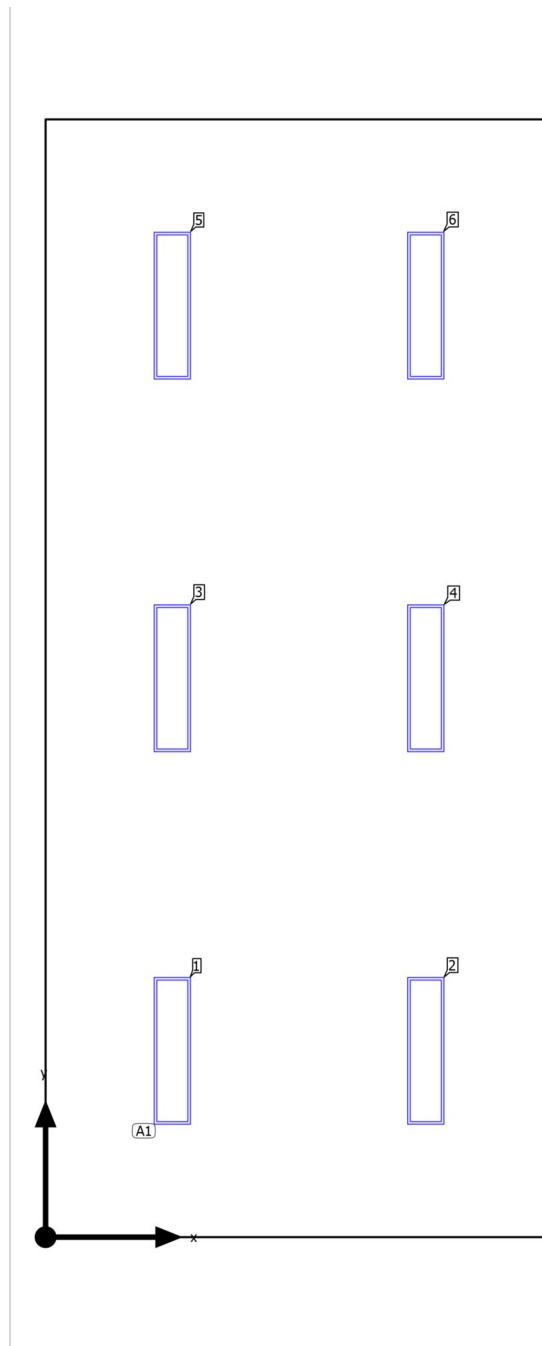
Utilization profile: Educational premises - Educational buildings, Entrance halls

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Hyrje

## Luminaire layout plan





Building 1 · Story 1 · Hyrje

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

6 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.032 m / 1.518 m / 2.800 m	1.032 m	1.518 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.065 m	3.098 m	1.518 m	2.800 m	2
Y-direction	3 pcs., Center - center, 3.035 m	1.032 m	4.552 m	2.800 m	3
		3.098 m	4.552 m	2.800 m	4
Arrangement	A1	1.032 m	7.588 m	2.800 m	5
		3.098 m	7.588 m	2.800 m	6

Building 1 · Story 1 · Hyrje

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

23580 lm

 $P_{\text{total}}$ 

204.0 W

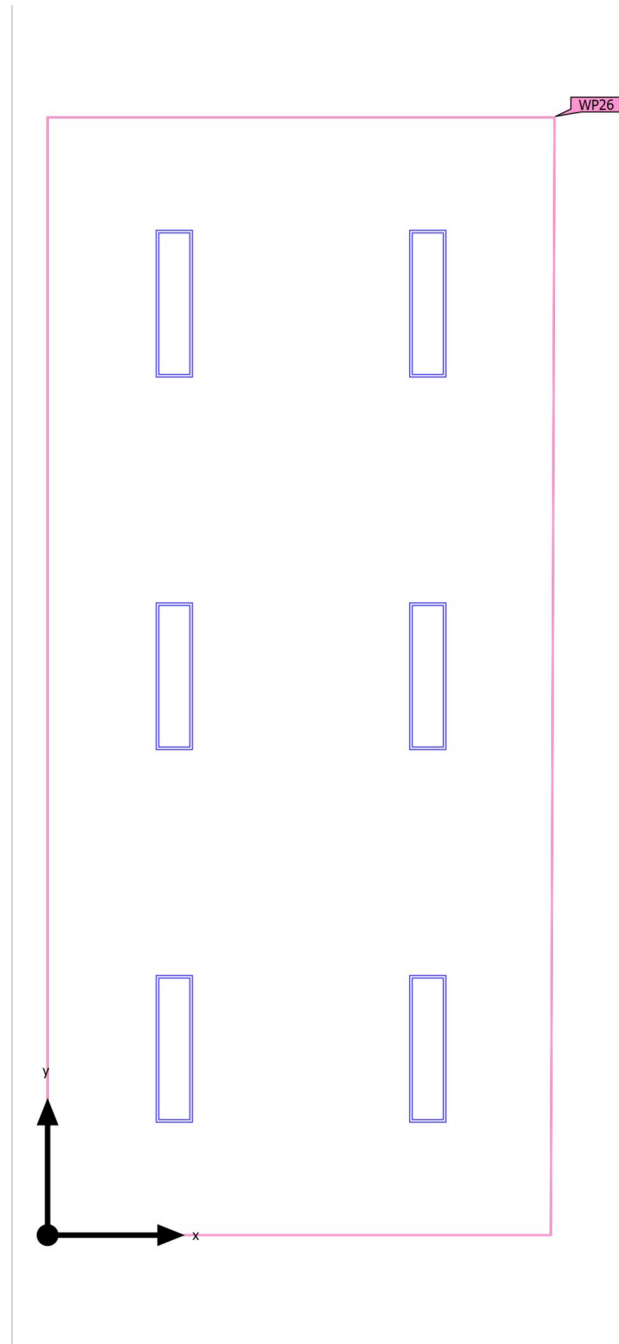
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

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

## Calculation objects



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

**Calculation objects**

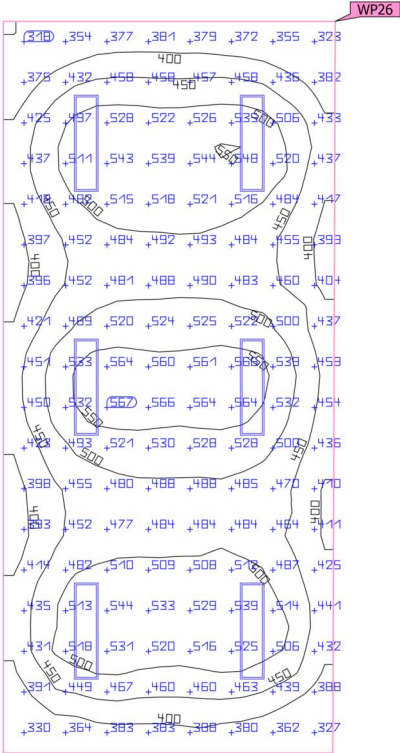
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Hyrje) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	469 lx ( $\geq 200$ lx) ✓	298 lx	573 lx	0.64	0.52	WP26

Utilization profile: Educational premises - Educational buildings, Entrance halls

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

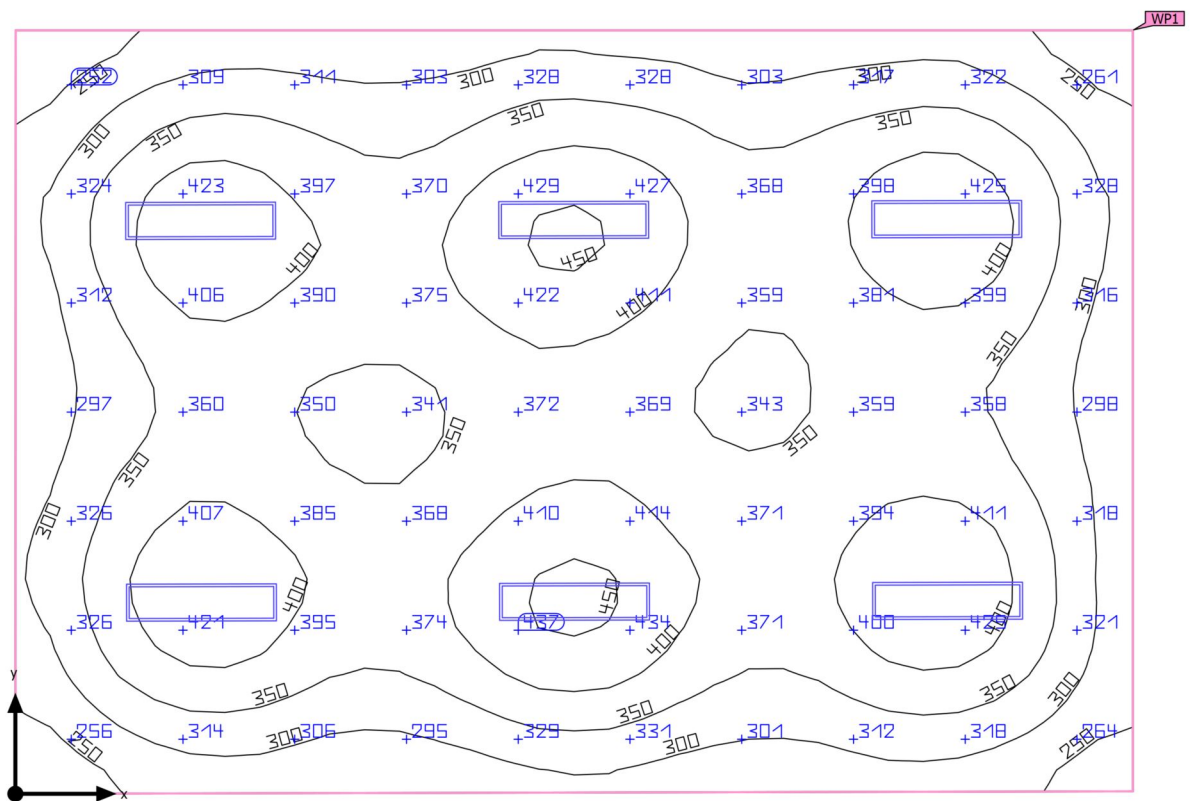
Working plane (Hyrje)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Hyrje)	469 lx	298 lx	573 lx	0.64	0.52	WP26
Perpendicular illuminance (adaptive)	(≥ 200 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Entrance halls

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Summary**

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	355 lx	$\geq 300$ lx	✓	WP1
	$g_1$	0.60	-	-	WP1
Consumption values	Consumption	270 kWh/a	max. 1900 kWh/a	✓	
Room	Lighting power density	3.77 W/m <sup>2</sup>	-	-	
		1.06 W/m <sup>2</sup> /100 lx	-	-	

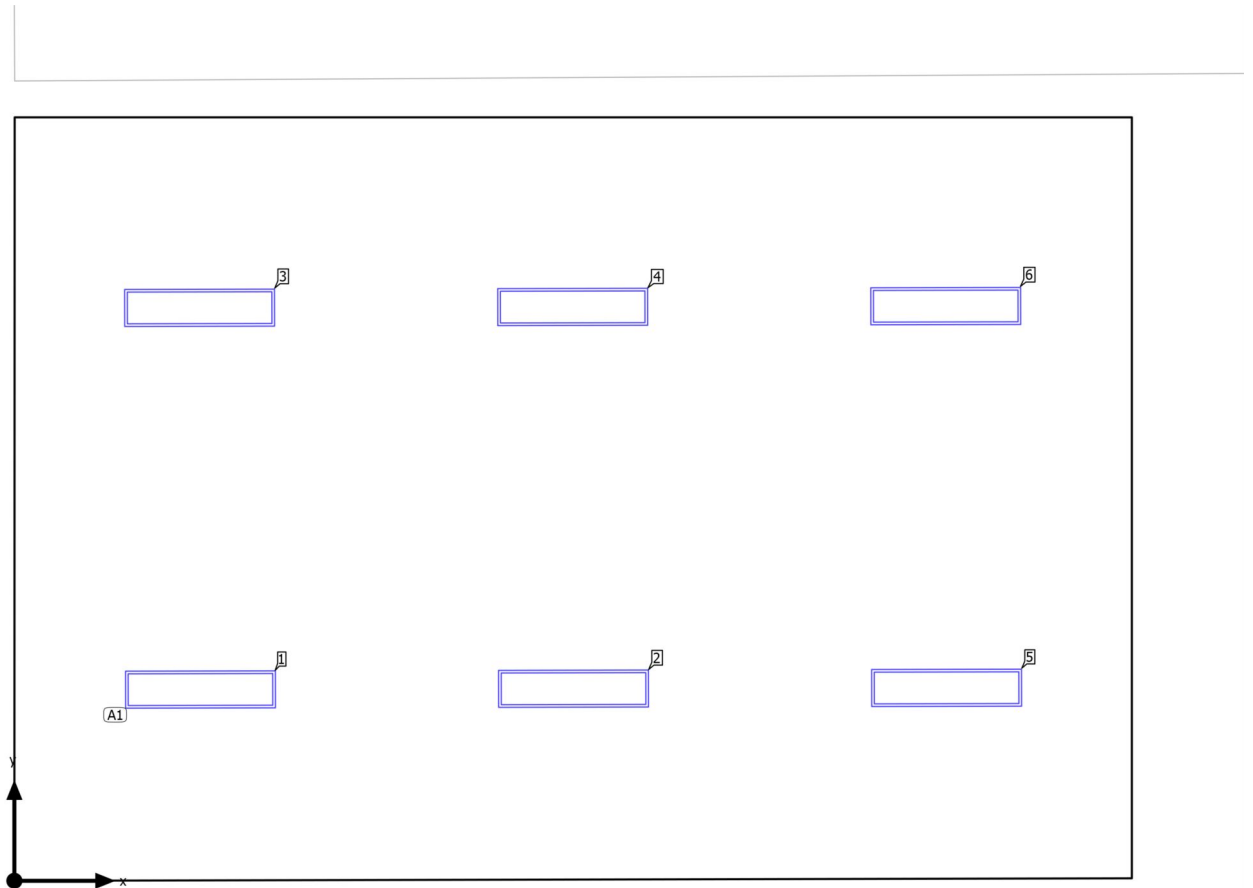
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

6 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.484 m / 1.526 m / 2.800 m	1.484 m	1.526 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.975 m	4.460 m	1.533 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.045 m	1.477 m	4.571 m	2.800 m	3
		4.453 m	4.577 m	2.800 m	4
Arrangement	A1	7.435 m	1.539 m	2.800 m	5
		7.428 m	4.584 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

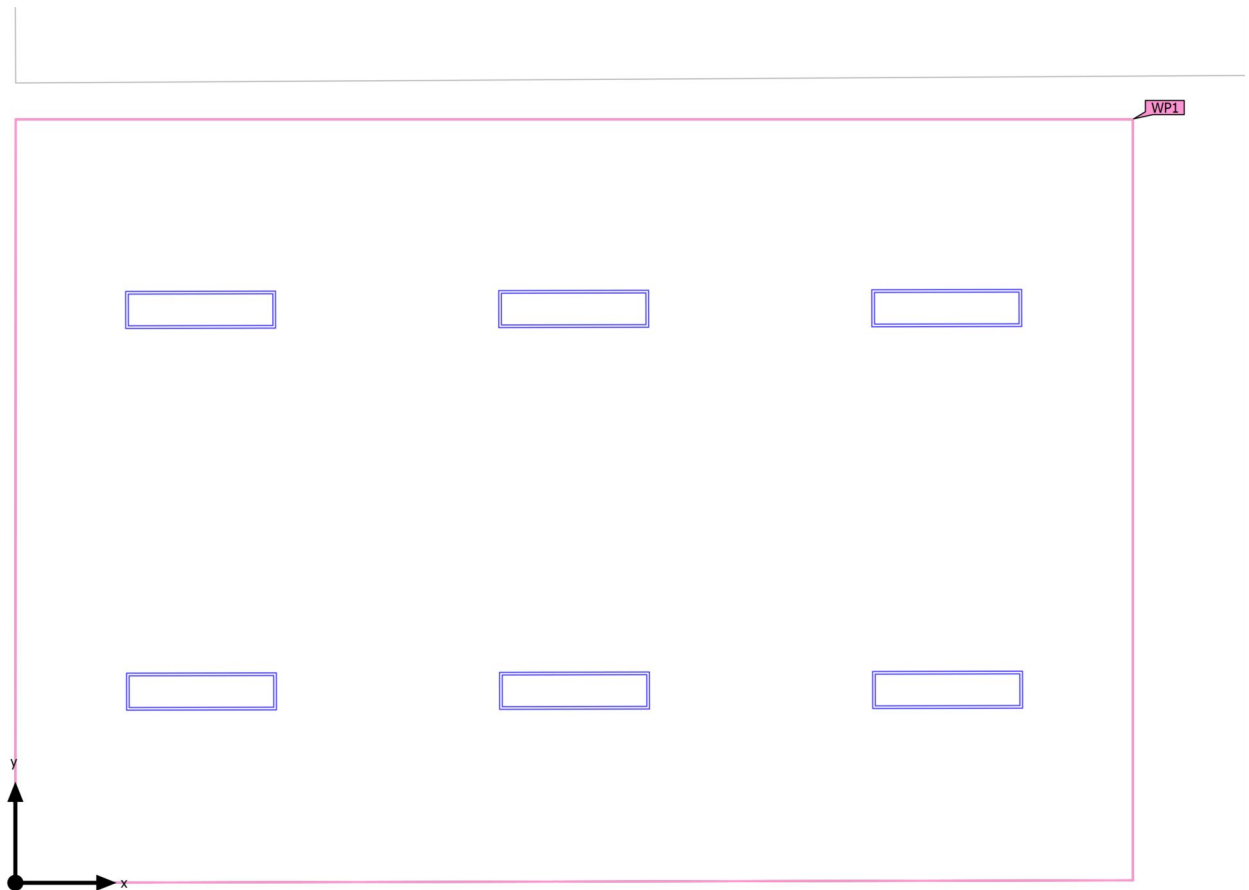
**Luminaire list**

$\Phi_{\text{total}}$ 23580 lm	$P_{\text{total}}$ 204.0 W	Luminous efficacy 115.6 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

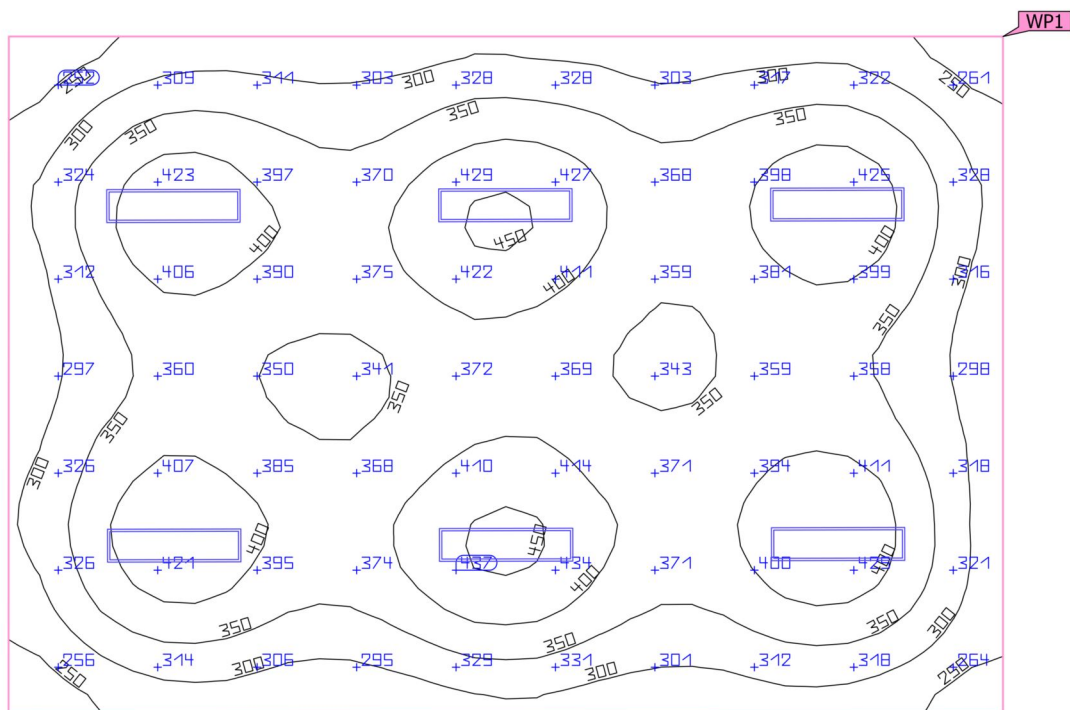
**Calculation objects**

## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	355 lx ( $\geq 300$ lx) ✓	213 lx	457 lx	0.60	0.47	WP1

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

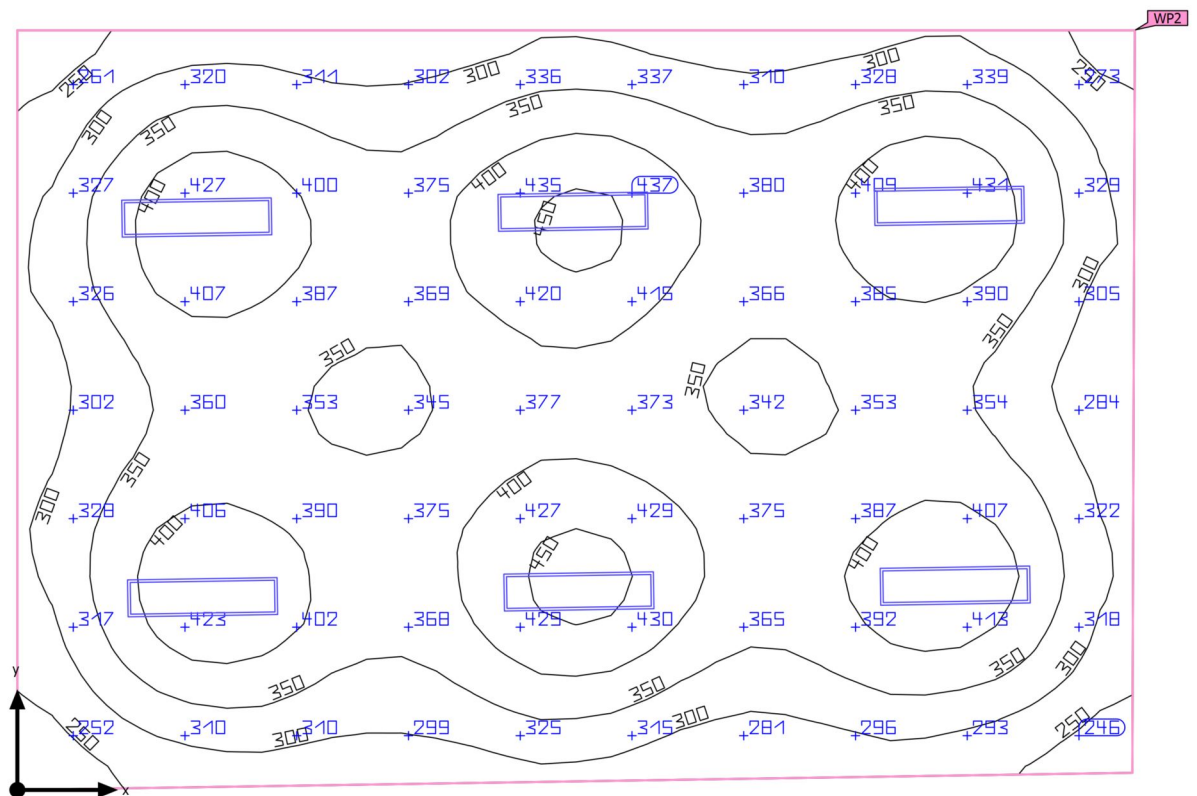
Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Working plane (Klase/Classroom)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom)	355 lx	213 lx	457 lx	0.60	0.47	WP1
Perpendicular illuminance (adaptive)	(≥ 300 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Summary**

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	356 lx	$\geq 300$ lx	✓	WP2
	$g_1$	0.60	-	-	WP2
Consumption values	Consumption	270 kWh/a	max. 1900 kWh/a	✓	
Room	Lighting power density	3.81 W/m <sup>2</sup>	-	-	
		1.07 W/m <sup>2</sup> /100 lx	-	-	

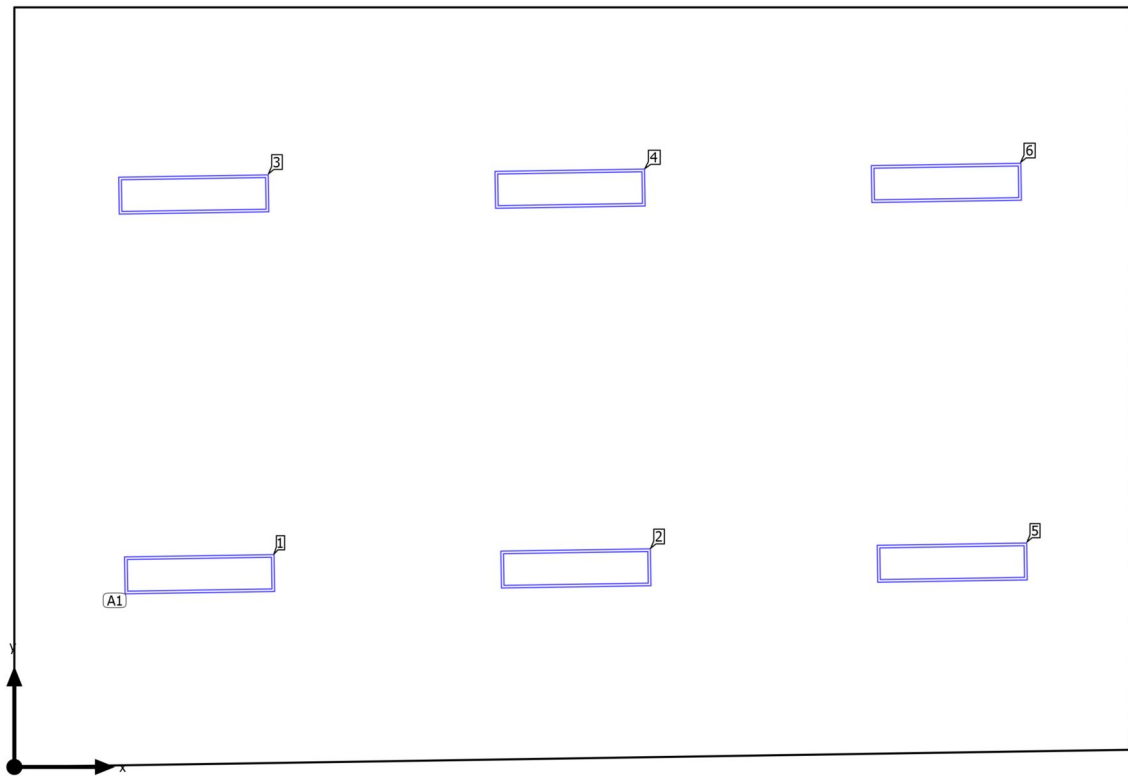
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

6 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.480 m / 1.540 m / 2.800 m	1.480 m	1.540 m	2.800 m	1
X-direction	3 pcs., Center - center, 3.007 m	4.487 m	1.587 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.035 m	1.433 m	4.575 m	2.800 m	3
		4.441 m	4.621 m	2.800 m	4
Arrangement	A1	7.494 m	1.633 m	2.800 m	5
		7.448 m	4.667 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

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

23580 lm

 $P_{\text{total}}$ 

204.0 W

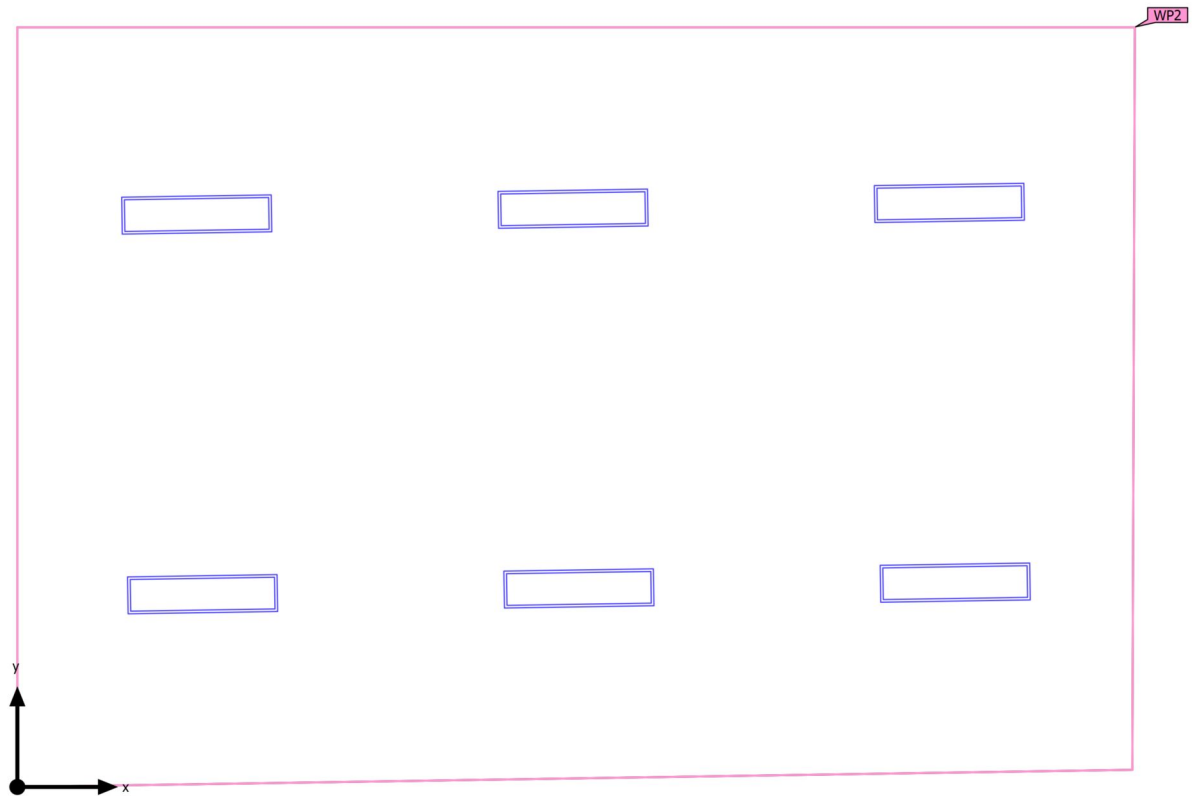
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

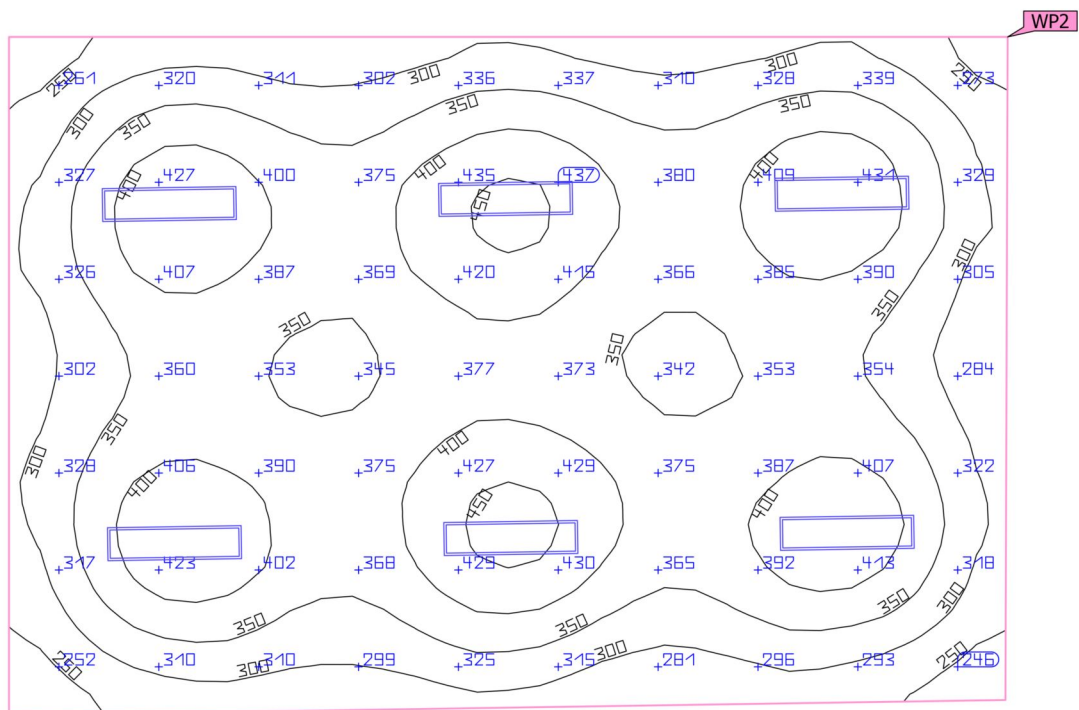
**Calculation objects**

Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	356 lx ( $\geq 300$ lx) ✓	212 lx	462 lx	0.60	0.46	WP2

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

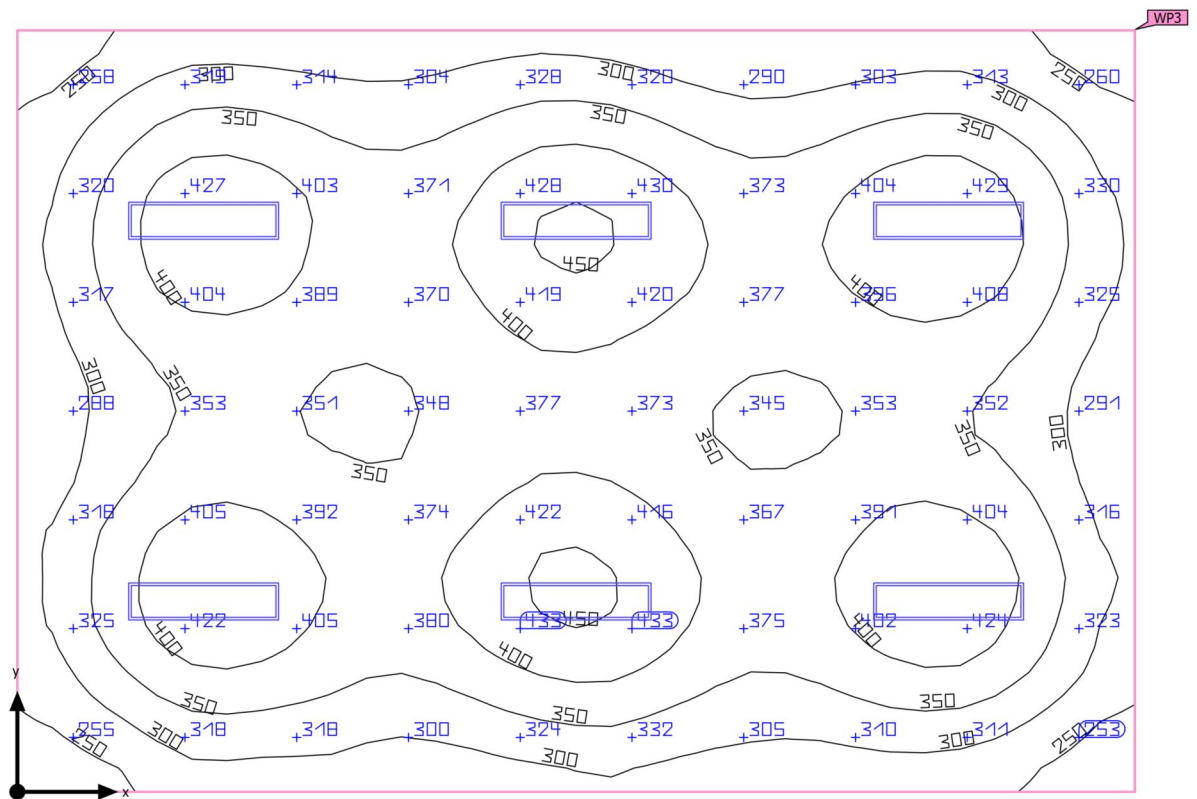
**Working plane (Klase/Classroom)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom)	356 lx	212 lx	462 lx	0.60	0.46	WP2
Perpendicular illuminance (adaptive)	(≥ 300 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	355 lx	$\geq 300$ lx	✓	WP3
	$g_1$	0.60	-	-	WP3
Consumption values	Consumption	270 kWh/a	max. 1900 kWh/a	✓	
Room	Lighting power density	3.77 W/m <sup>2</sup>	-	-	
		1.06 W/m <sup>2</sup> /100 lx	-	-	

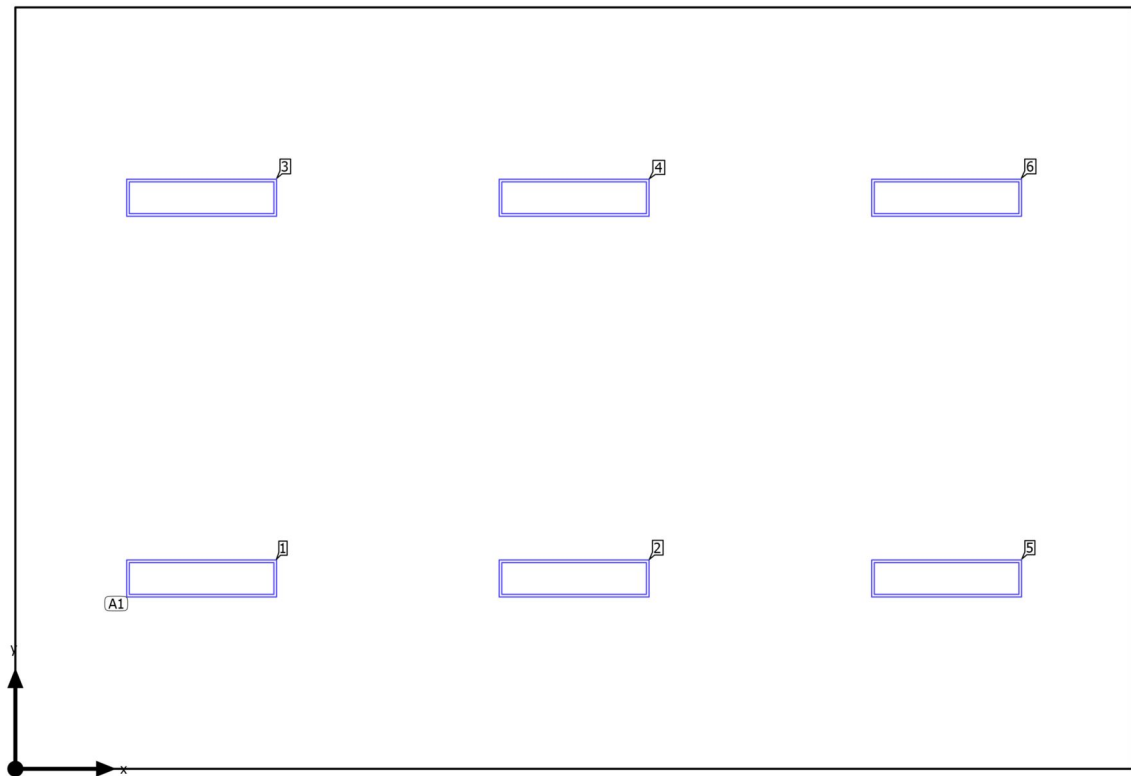
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

6 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.485 m / 1.518 m / 2.800 m	1.485 m	1.518 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.970 m	4.455 m	1.518 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.035 m	1.485 m	4.553 m	2.800 m	3
		4.455 m	4.553 m	2.800 m	4
Arrangement	A1	7.425 m	1.518 m	2.800 m	5
		7.425 m	4.553 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

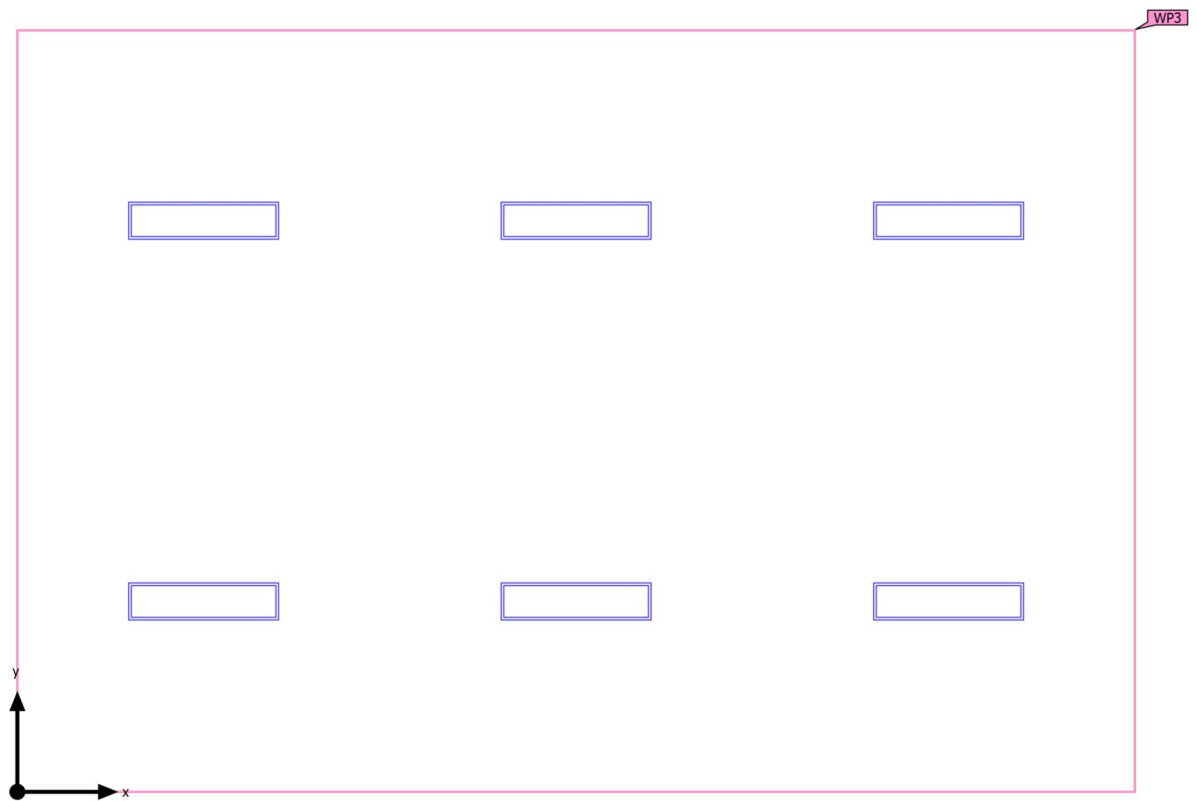
**Luminaire list**

$\Phi_{\text{total}}$ 23580 lm	$P_{\text{total}}$ 204.0 W	Luminous efficacy 115.6 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

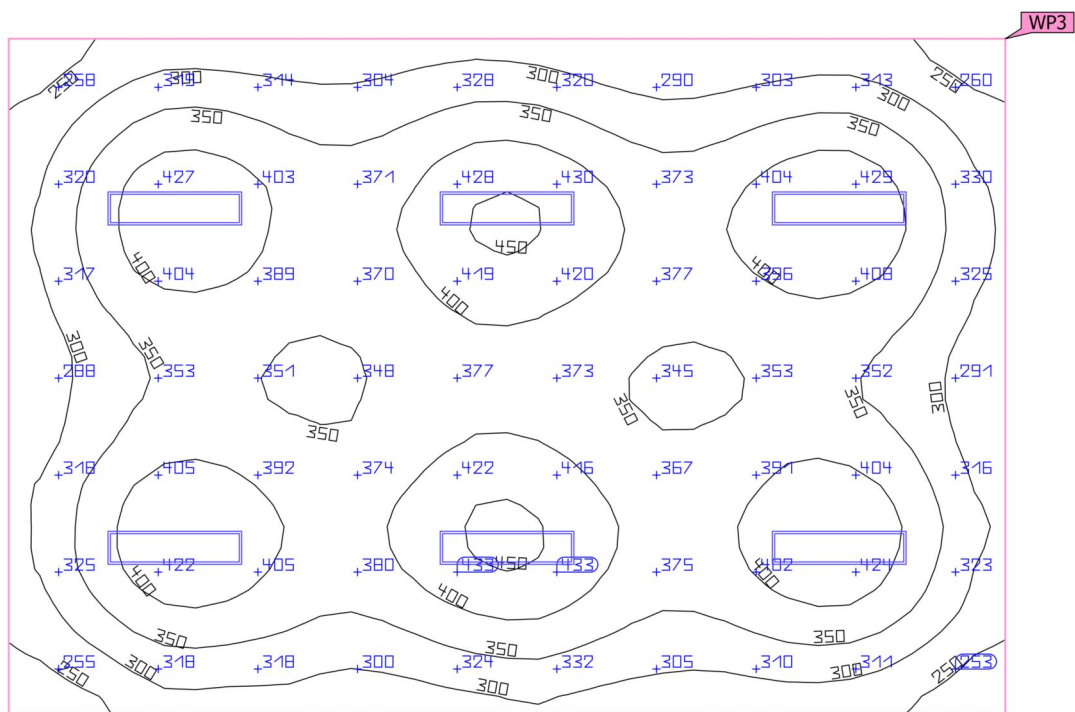
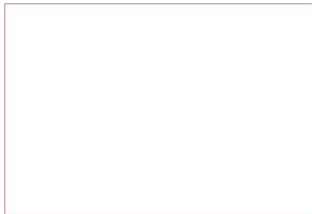
**Calculation objects**

Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	355 lx ( $\geq 300$ lx) ✓	213 lx	458 lx	0.60	0.47	WP3

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

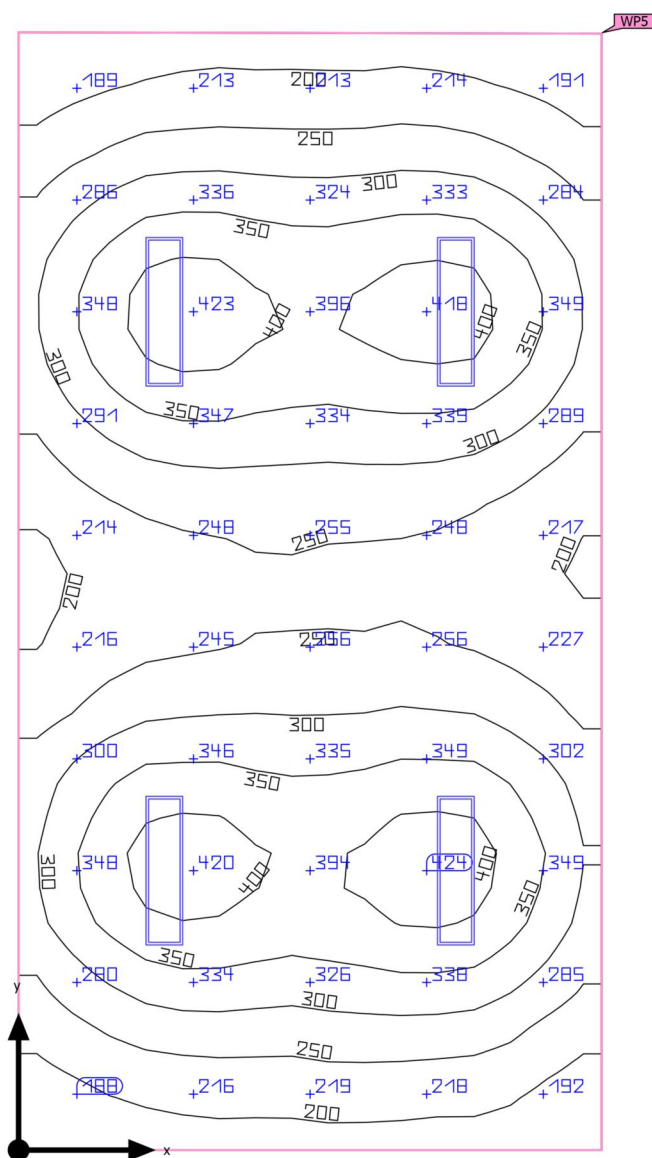
Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Working plane (Klase/Classroom)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom)	355 lx	213 lx	458 lx	0.60	0.47	WP3
Perpendicular illuminance (adaptive)	(≥ 300 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Summary**

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	292 lx	$\geq 290$ lx	✓	WP5
	$g_1$	0.54	-	-	WP5
Consumption values	Consumption	180 kWh/a	max. 1500 kWh/a	✓	
Room	Lighting power density	3.23 W/m <sup>2</sup>	-	-	
		1.10 W/m <sup>2</sup> /100 lx	-	-	

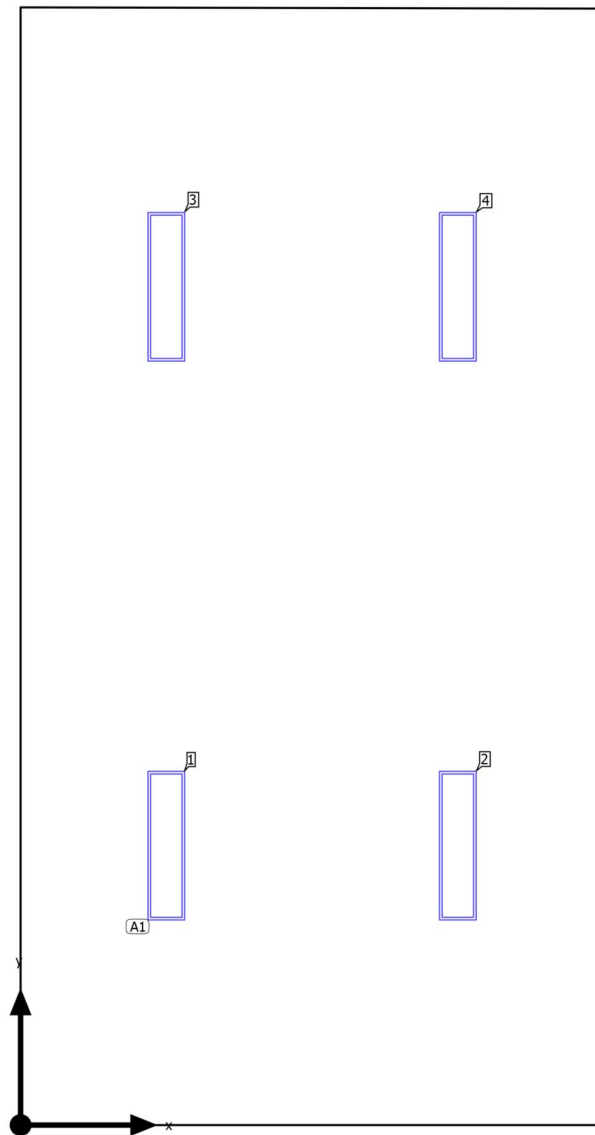
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

4 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.172 m / 2.248 m / 2.800 m	1.172 m	2.248 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.345 m	3.517 m	2.248 m	2.800 m	2
Y-direction	2 pcs., Center - center, 4.495 m	1.172 m	6.743 m	2.800 m	3
		3.517 m	6.743 m	2.800 m	4
Arrangement	A1				

Building 1 · Story 1 · Klase/Classroom

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

15720 lm

 $P_{\text{total}}$ 

136.0 W

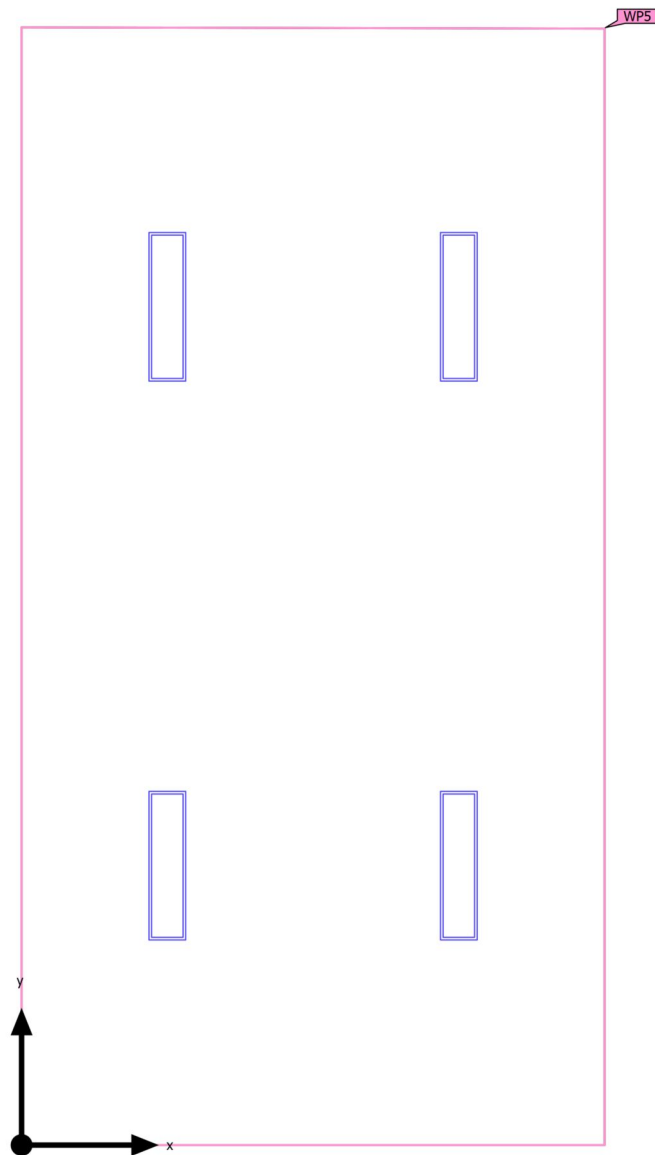
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Calculation objects**

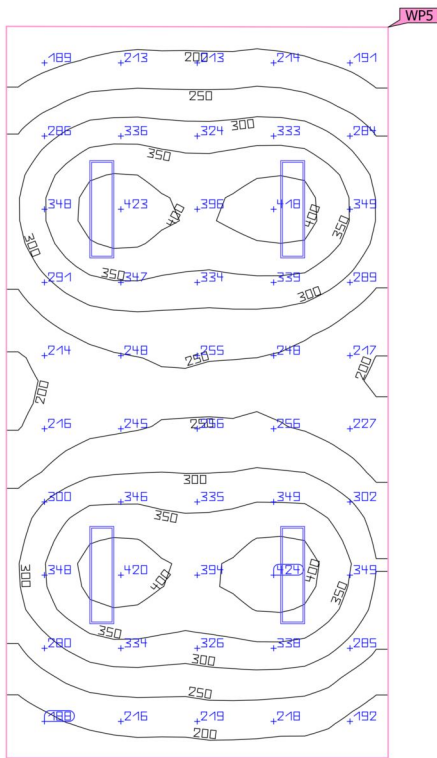
Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	292 lx ( $\geq 290$ lx) ✓	158 lx	426 lx	0.54	0.37	WP5

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

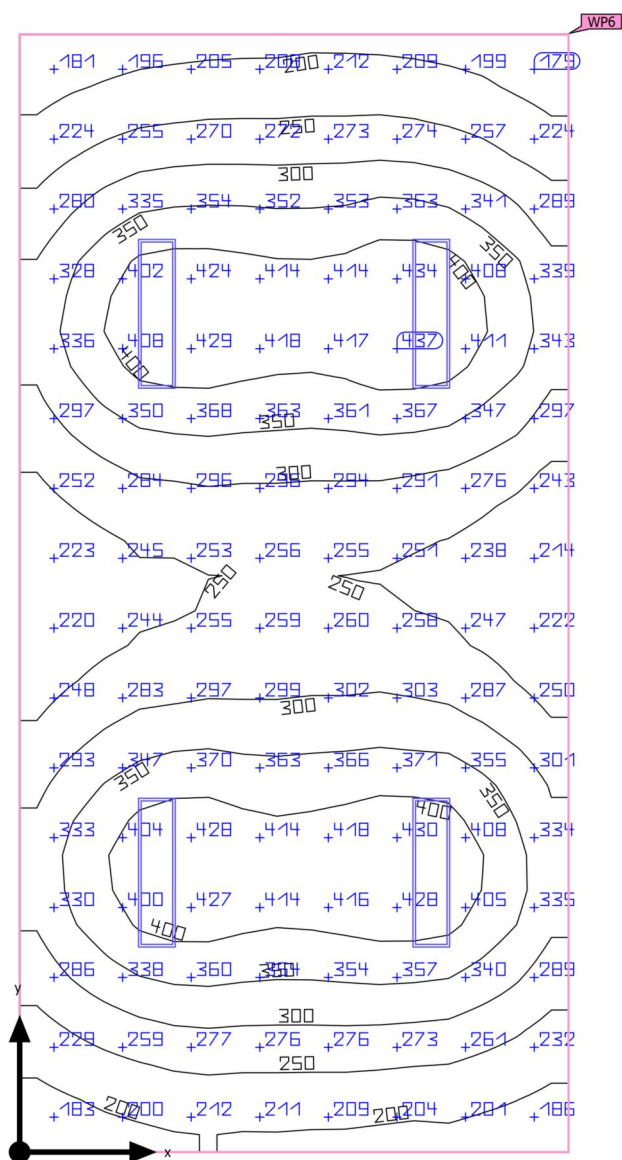
Working plane (Klase/Classroom)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom)	292 lx	158 lx	426 lx	0.54	0.37	WP5
Perpendicular illuminance (adaptive)	(≥ 290 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Summary**

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	307 lx	$\geq 300$ lx	✓	WP6
	$g_1$	0.54	-	-	WP6
Consumption values	Consumption	180 kWh/a	max. 1400 kWh/a	✓	
Room	Lighting power density	3.43 W/m <sup>2</sup>	-	-	
		1.12 W/m <sup>2</sup> /100 lx	-	-	

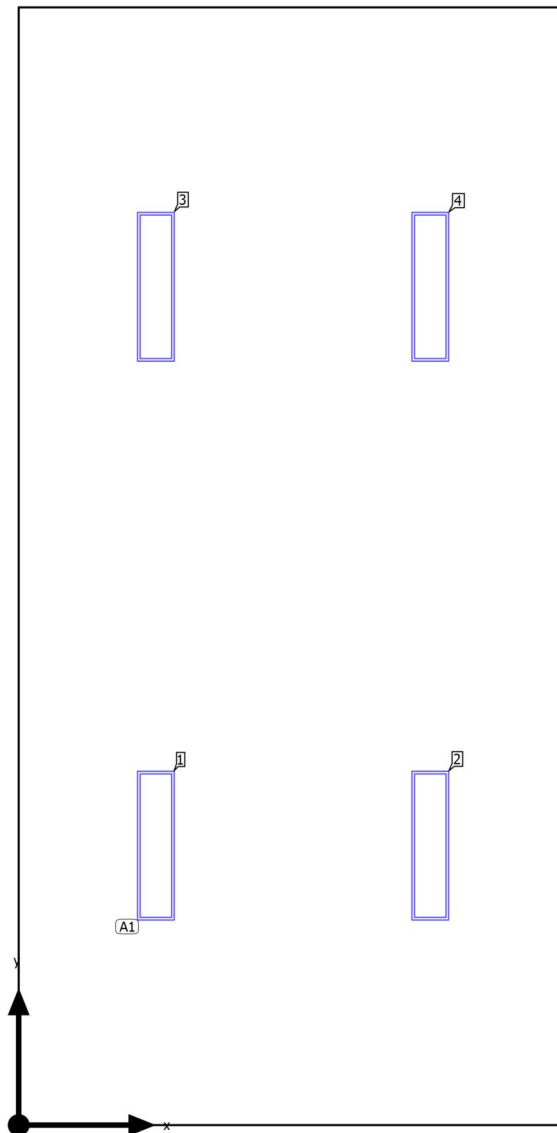
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

4 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.103 m / 2.245 m / 2.800 m	1.103 m	2.245 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.205 m	3.308 m	2.245 m	2.800 m	2
Y-direction	2 pcs., Center - center, 4.490 m	1.103 m	6.735 m	2.800 m	3
		3.308 m	6.735 m	2.800 m	4
Arrangement	A1				

Building 1 · Story 1 · Klase/Classroom

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

15720 lm

 $P_{\text{total}}$ 

136.0 W

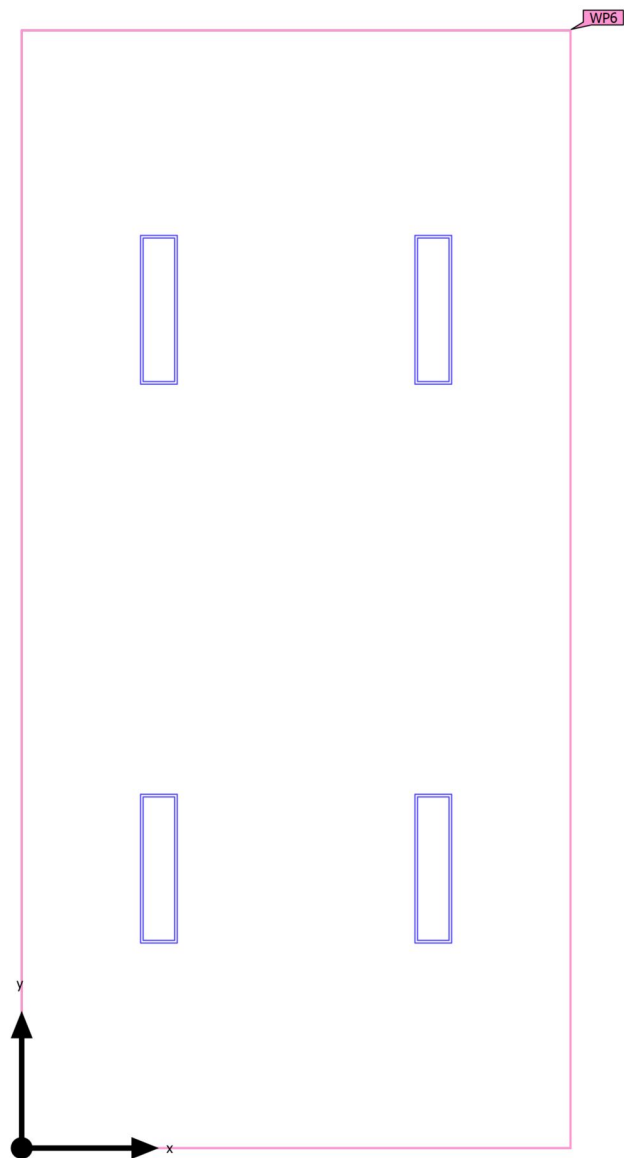
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

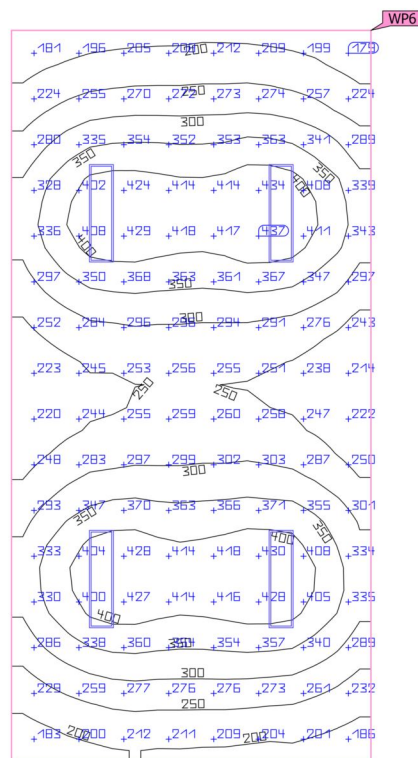
**Calculation objects**

Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	307 lx ( $\geq 300$ lx) ✓	167 lx	446 lx	0.54	0.37	WP6

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

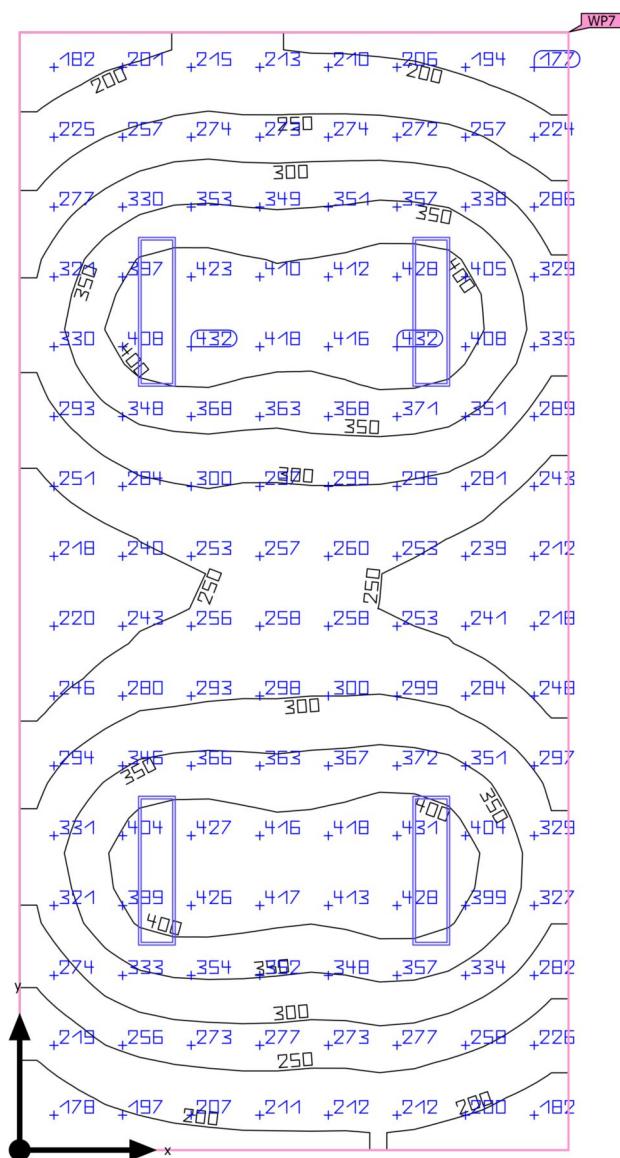
Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Working plane (Klase/Classroom)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom)	307 lx	167 lx	446 lx	0.54	0.37	WP6
Perpendicular illuminance (adaptive)	$\geq 300$ lx					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Summary**

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	305 lx	$\geq 300$ lx	✓	WP7
	$g_1$	0.54	-	-	WP7
Consumption values	Consumption	180 kWh/a	max. 1400 kWh/a	✓	
Room	Lighting power density	3.43 W/m <sup>2</sup>	-	-	
		1.13 W/m <sup>2</sup> /100 lx	-	-	

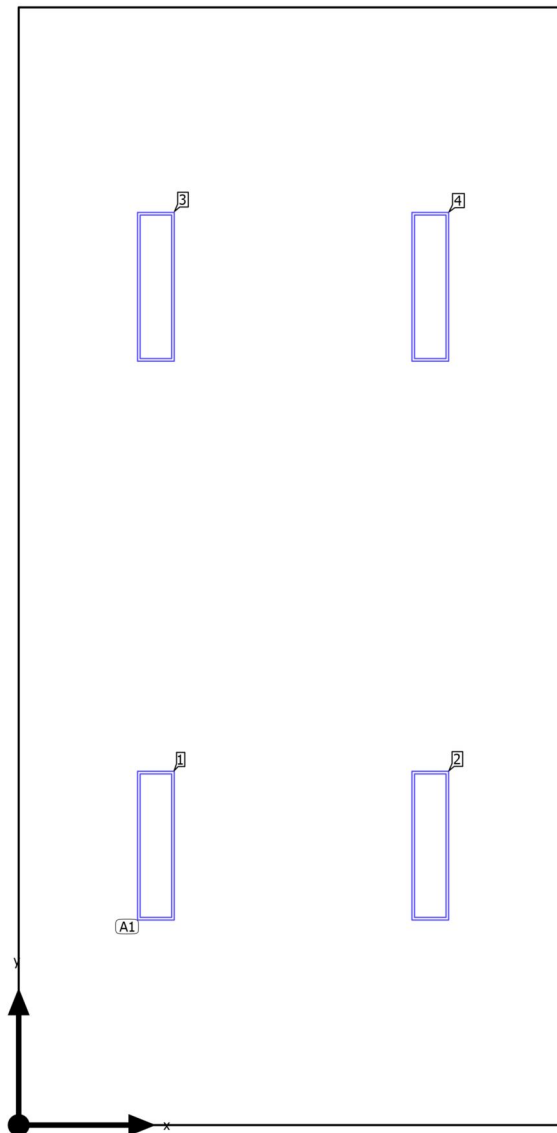
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

4 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.102 m / 2.245 m / 2.800 m	1.102 m	2.245 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.205 m	3.307 m	2.245 m	2.800 m	2
Y-direction	2 pcs., Center - center, 4.490 m	1.102 m	6.735 m	2.800 m	3
		3.307 m	6.735 m	2.800 m	4
Arrangement	A1				

Building 1 · Story 1 · Klase/Classroom

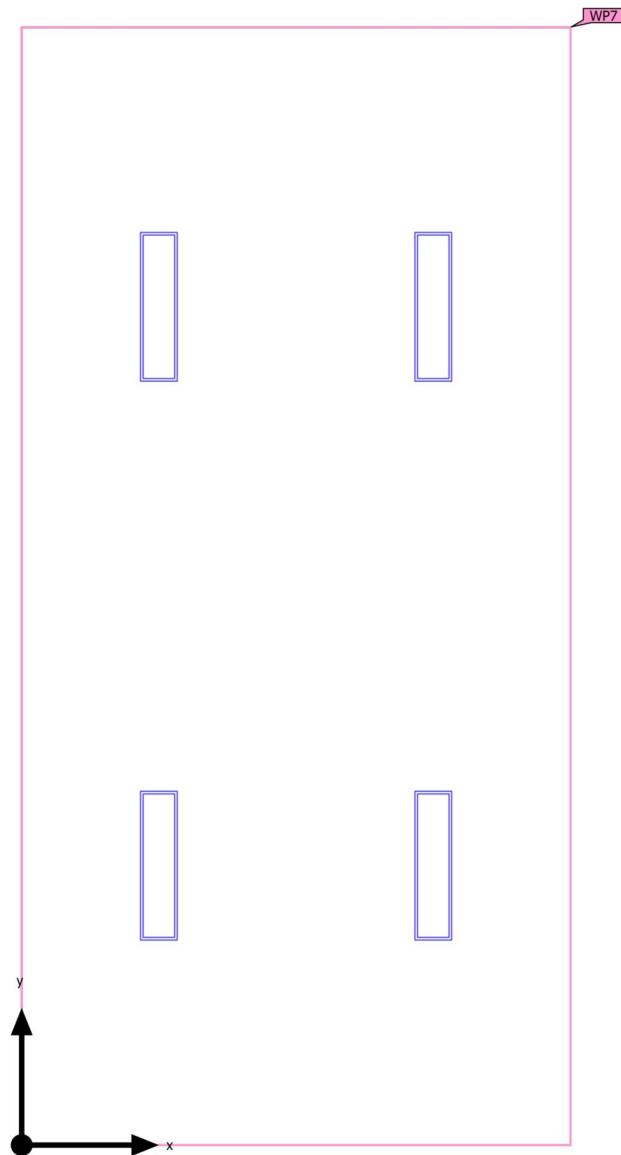
**Luminaire list**

$\Phi_{\text{total}}$ 15720 lm	$P_{\text{total}}$ 136.0 W	Luminous efficacy 115.6 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

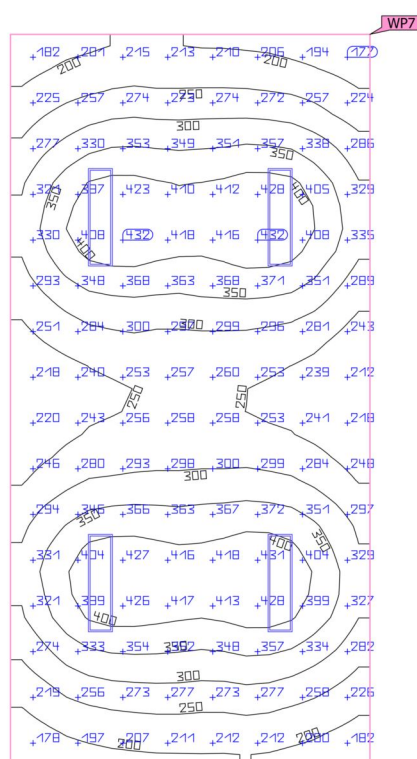
**Calculation objects**

Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	305 lx ( $\geq 300$ lx) ✓	165 lx	442 lx	0.54	0.37	WP7

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

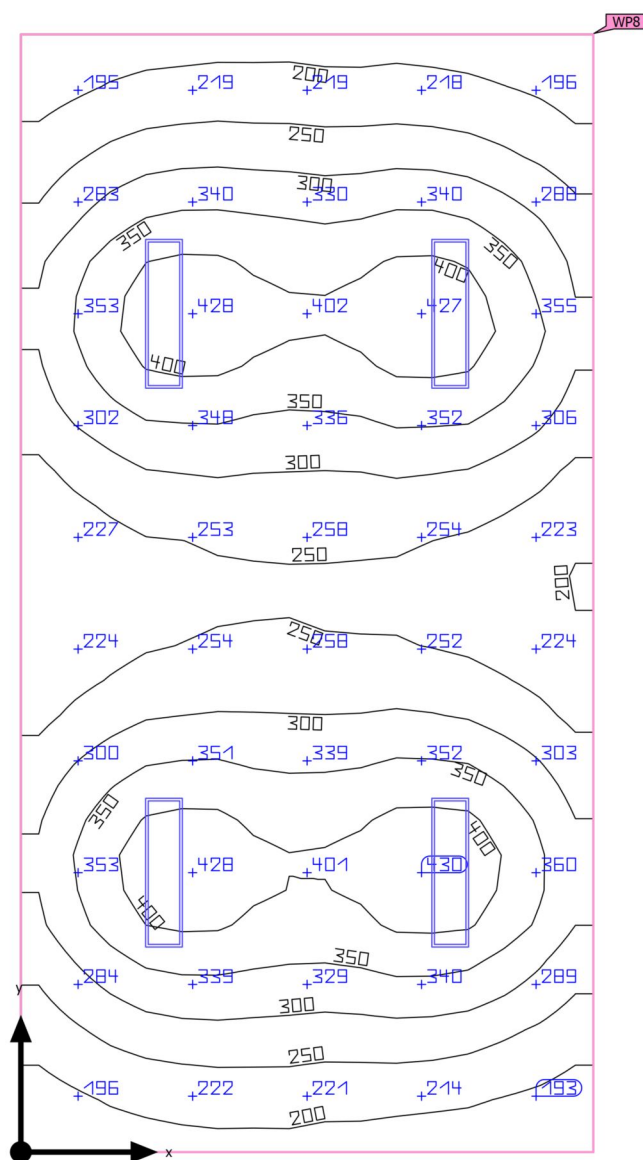
Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Working plane (Klase/Classroom)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom)	305 lx	165 lx	442 lx	0.54	0.37	WP7
Perpendicular illuminance (adaptive)	( $\geq 300$ lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Summary**

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	297 lx	$\geq 290$ lx	✓	WP8
	$g_1$	0.55	-	-	WP8
Consumption values	Consumption	180 kWh/a	max. 1450 kWh/a	✓	
Room	Lighting power density	3.29 W/m <sup>2</sup>	-	-	
		1.11 W/m <sup>2</sup> /100 lx	-	-	

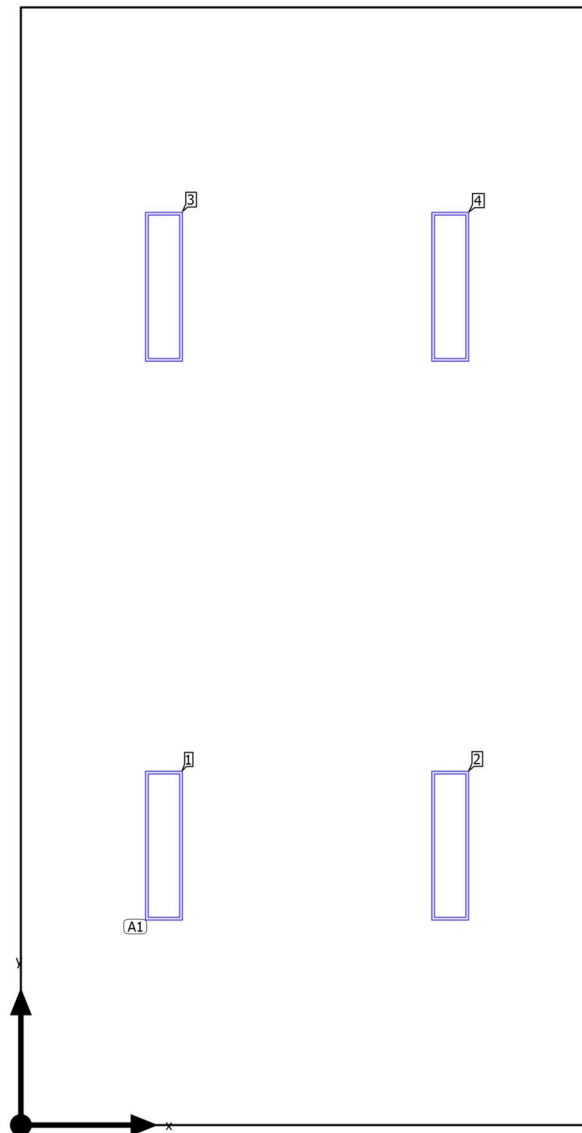
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

4 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.150 m / 2.245 m / 2.800 m	1.150 m	2.245 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.300 m	3.450 m	2.245 m	2.800 m	2
Y-direction	2 pcs., Center - center, 4.490 m	1.150 m	6.735 m	2.800 m	3
		3.450 m	6.735 m	2.800 m	4
Arrangement	A1				

Building 1 · Story 1 · Klase/Classroom

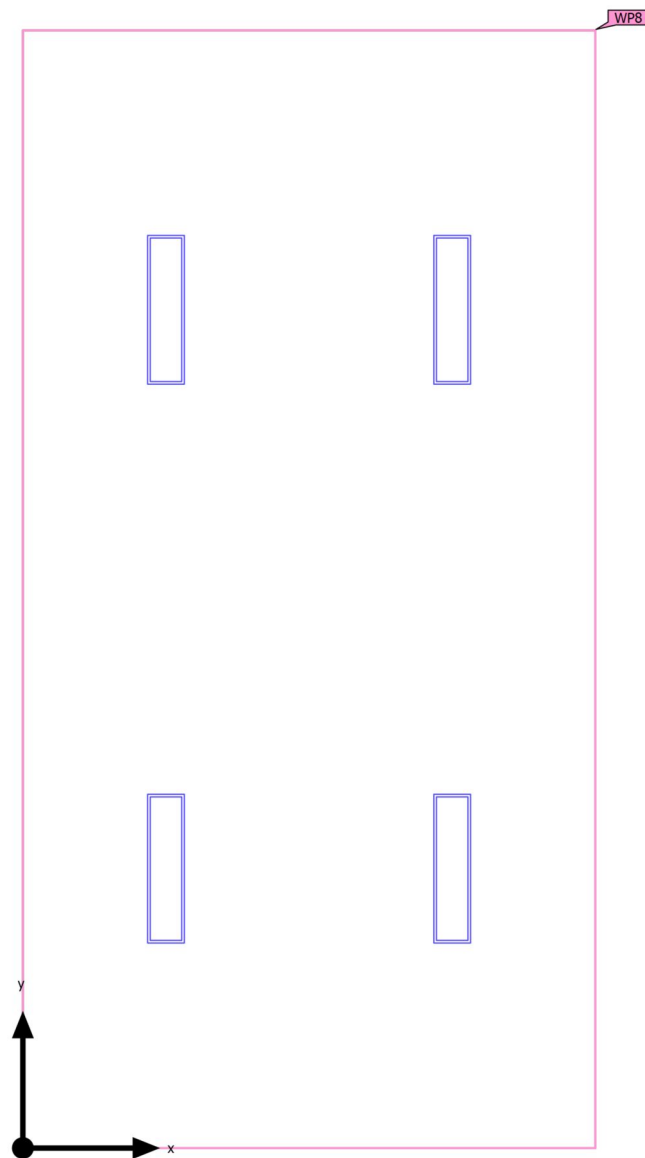
**Luminaire list**

$\Phi_{\text{total}}$ 15720 lm	$P_{\text{total}}$ 136.0 W	Luminous efficacy 115.6 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

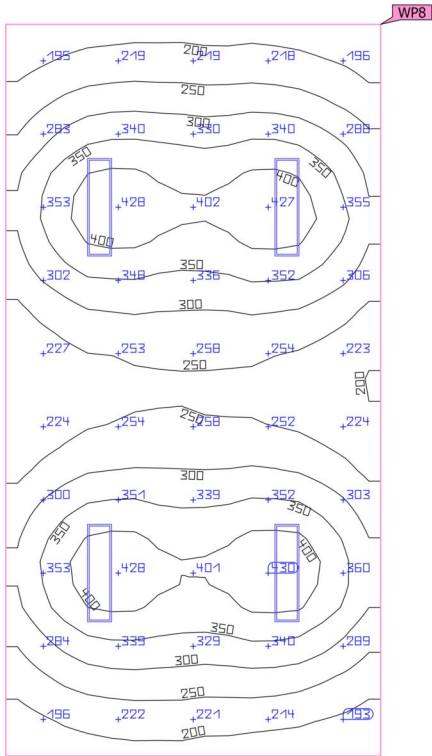
**Calculation objects**

Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	297 lx ( $\geq 290$ lx) ✓	163 lx	433 lx	0.55	0.38	WP8

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)  
**Working plane (Klase/Classroom)**

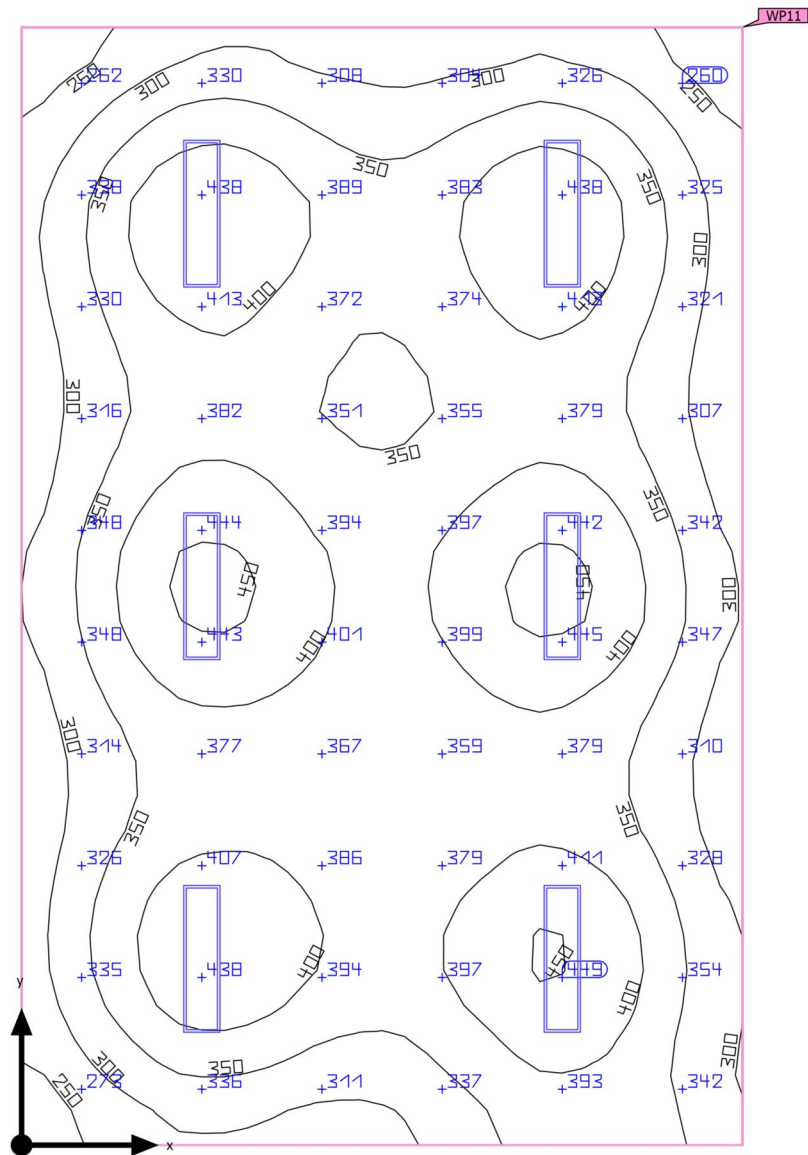


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	297 lx (≥ 290 lx) ✓	163 lx	433 lx	0.55	0.38	WP8

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary



Ground area: 53.42 m<sup>2</sup> | Reflection factors: Ceiling: 80.0 %, Walls: 70.0 %, Floor: 30.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 2.800 m | Mounting height: 2.800 m

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	363 lx	$\geq 300$ lx	✓	WP11
	$g_1$	0.59	-	-	WP11
Consumption values	Consumption	270 kWh/a	max. 1900 kWh/a	✓	
Room	Lighting power density	3.82 W/m <sup>2</sup>	-	-	
		1.05 W/m <sup>2</sup> /100 lx	-	-	

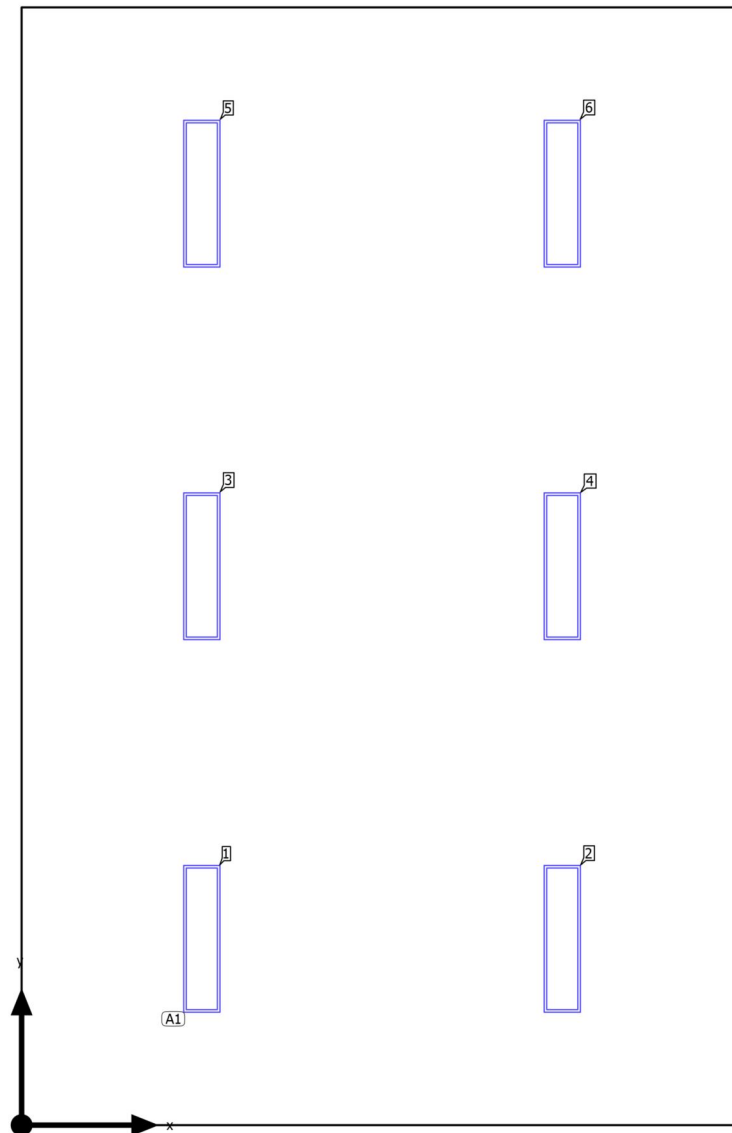
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

6 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.468 m / 1.517 m / 2.800 m	1.468 m	1.517 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.935 m	4.403 m	1.517 m	2.800 m	2
Y-direction	3 pcs., Center - center, 3.033 m	1.468 m	4.550 m	2.800 m	3
		4.403 m	4.550 m	2.800 m	4
Arrangement	A1	1.468 m	7.583 m	2.800 m	5
		4.403 m	7.583 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

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

23580 lm

 $P_{\text{total}}$ 

204.0 W

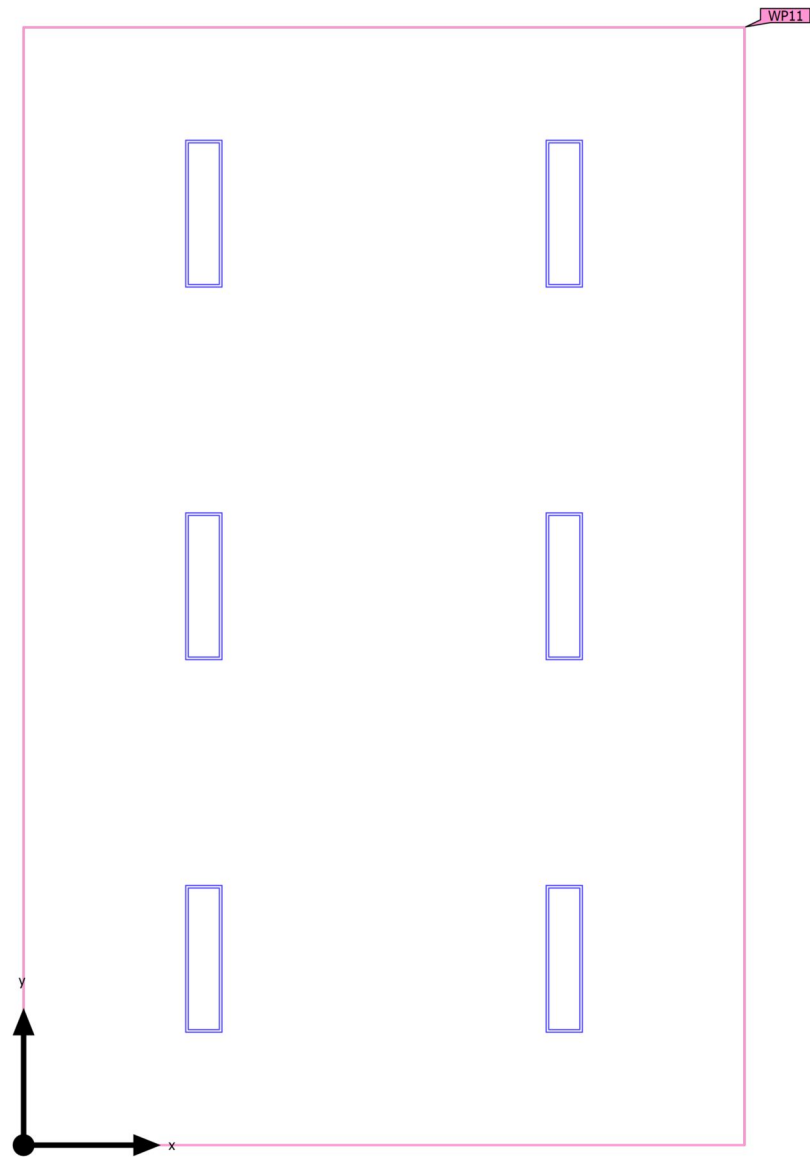
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Calculation objects**

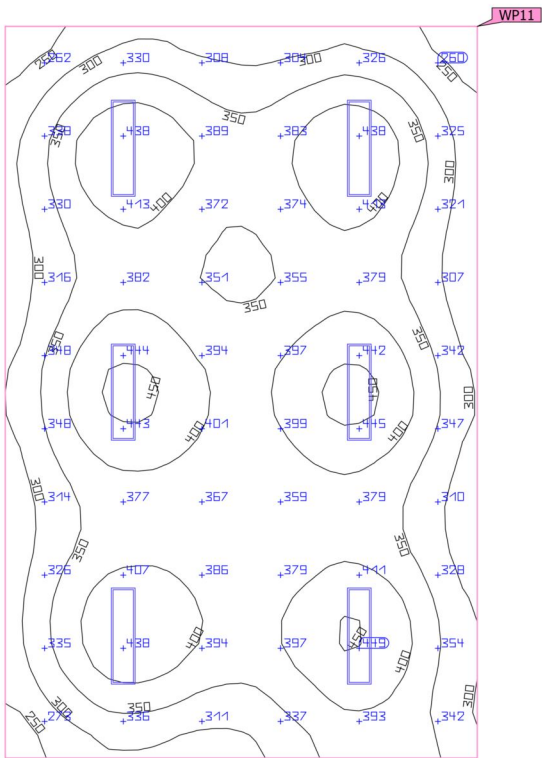
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	363 lx ( $\geq 300$ lx) ✓	215 lx	461 lx	0.59	0.47	WP11

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

Working plane (Klase/Classroom)

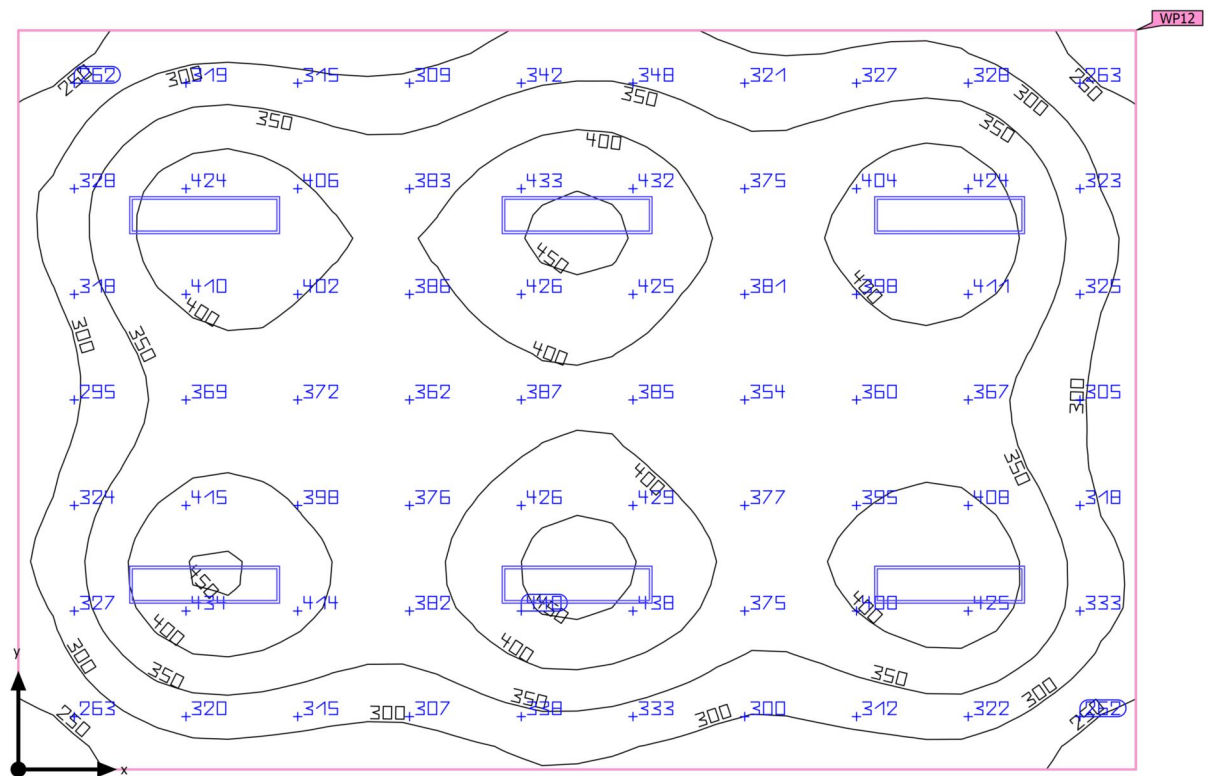


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom)	363 lx	215 lx	461 lx	0.59	0.47	WP11
Perpendicular illuminance (adaptive)	(≥ 300 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	362 lx	$\geq 300$ lx	✓	WP12
	$g_1$	0.60	-	-	WP12
Consumption values	Consumption	270 kWh/a	max. 1850 kWh/a	✓	
Room	Lighting power density	3.89 W/m <sup>2</sup>	-	-	
		1.07 W/m <sup>2</sup> /100 lx	-	-	

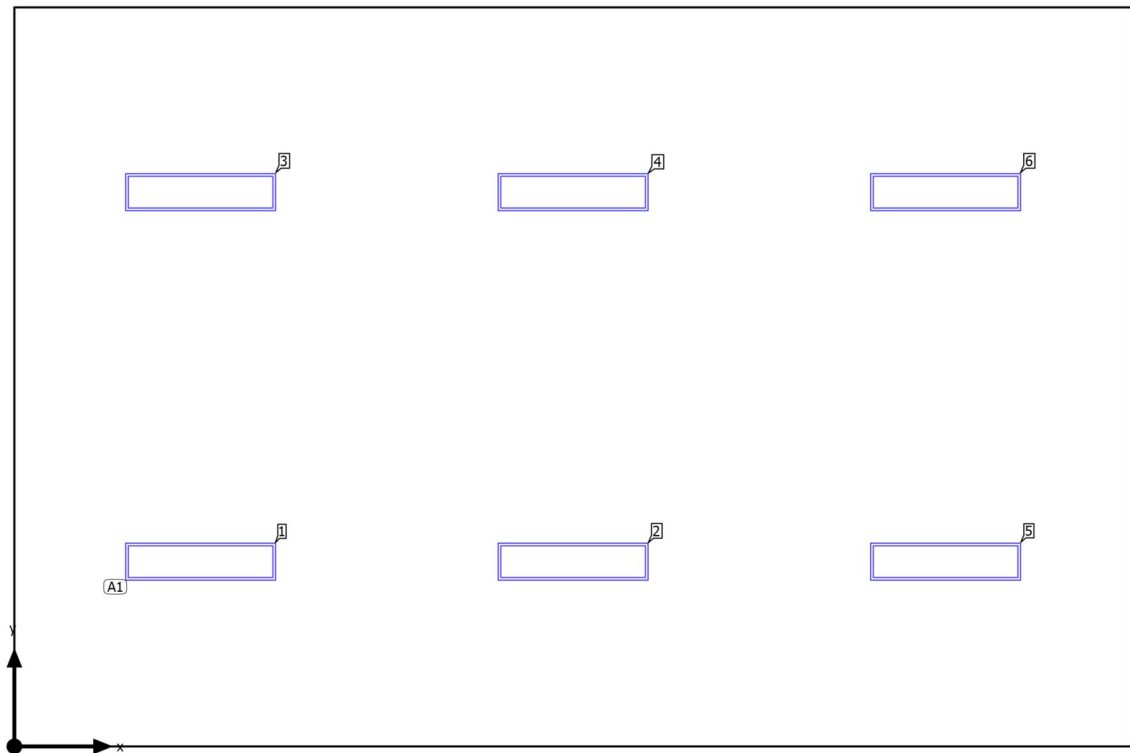
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

6 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.485 m / 1.473 m / 2.800 m	1.485 m	1.473 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.970 m	4.455 m	1.473 m	2.800 m	2
Y-direction	2 pcs., Center - center, 2.945 m	1.485 m	4.418 m	2.800 m	3
		4.455 m	4.418 m	2.800 m	4
Arrangement	A1	7.425 m	1.473 m	2.800 m	5
		7.425 m	4.418 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

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

23580 lm

 $P_{\text{total}}$ 

204.0 W

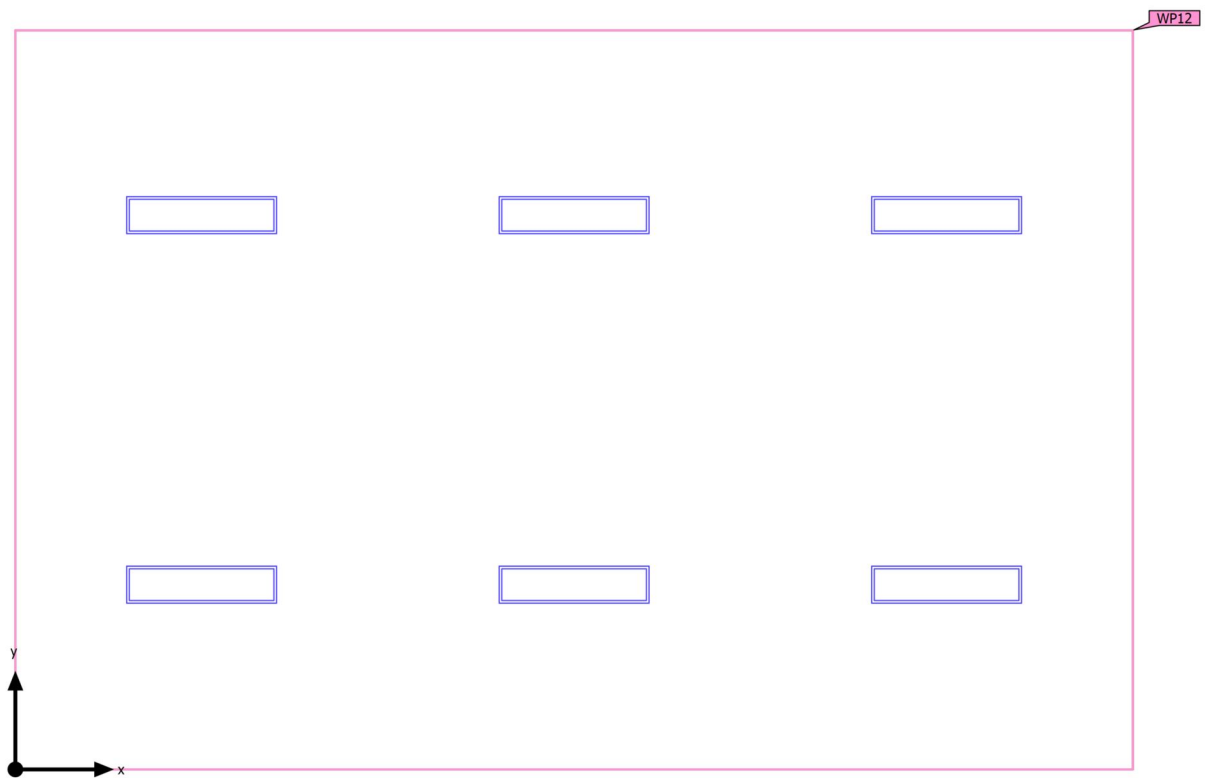
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

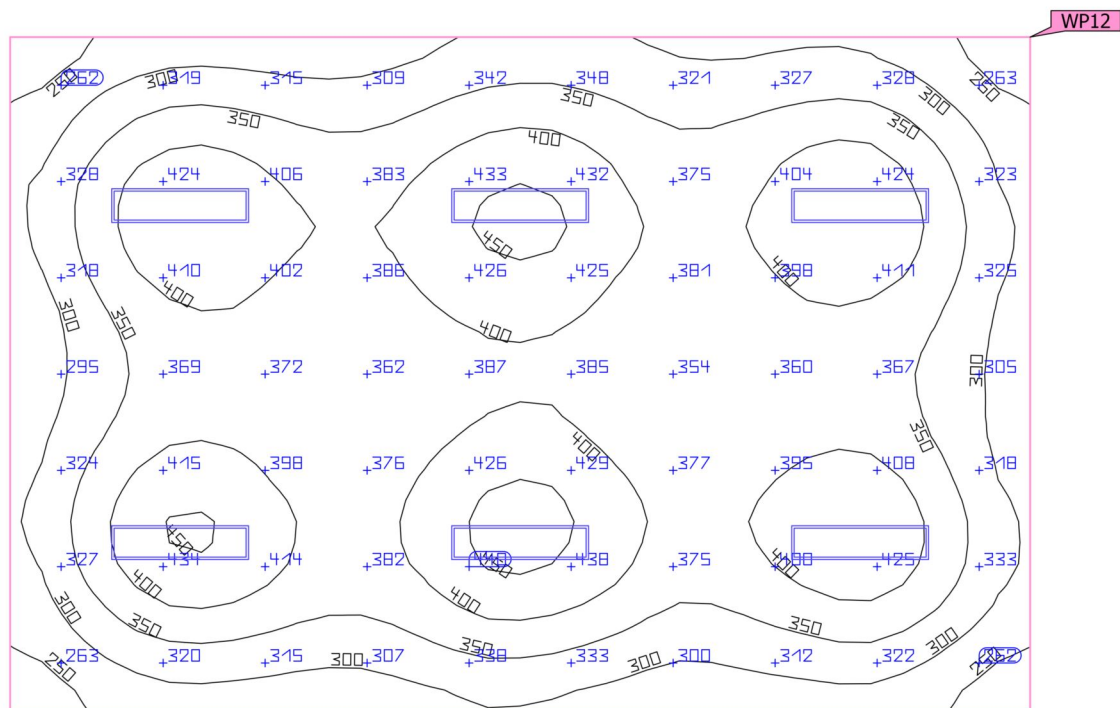
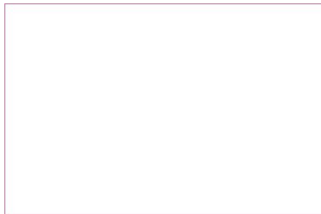
**Calculation objects**

Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	362 lx ( $\geq 300$ lx) ✓	218 lx	465 lx	0.60	0.47	WP12

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

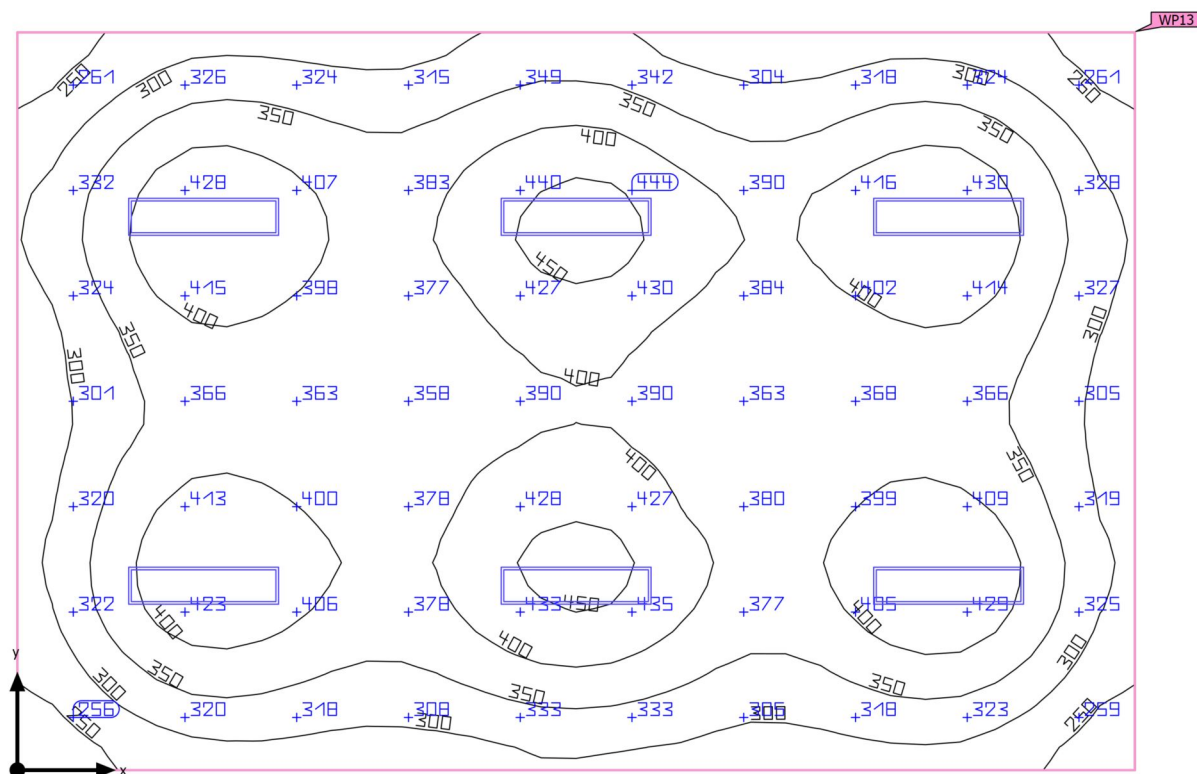
Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Working plane (Klase/Classroom)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom)	362 lx	218 lx	465 lx	0.60	0.47	WP12
Perpendicular illuminance (adaptive)	(≥ 300 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Summary**

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	363 lx	$\geq 300$ lx	✓	WP13
	$g_1$	0.59	-	-	WP13
Consumption values	Consumption	270 kWh/a	max. 1850 kWh/a	✓	
Room	Lighting power density	3.89 W/m <sup>2</sup>	-	-	
		1.07 W/m <sup>2</sup> /100 lx	-	-	

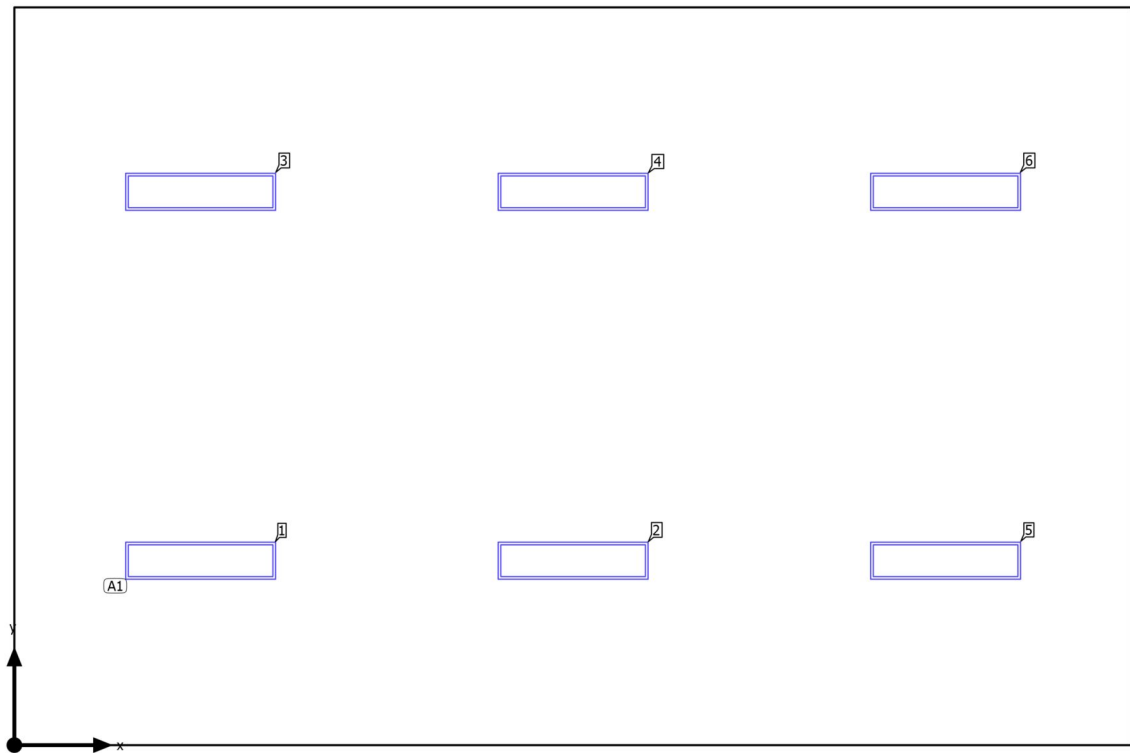
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

6 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.485 m / 1.470 m / 2.800 m	1.485 m	1.470 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.970 m	4.455 m	1.470 m	2.800 m	2
Y-direction	2 pcs., Center - center, 2.940 m	1.485 m	4.411 m	2.800 m	3
		4.455 m	4.411 m	2.800 m	4
Arrangement	A1	7.425 m	1.470 m	2.800 m	5
		7.425 m	4.411 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

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

23580 lm

 $P_{\text{total}}$ 

204.0 W

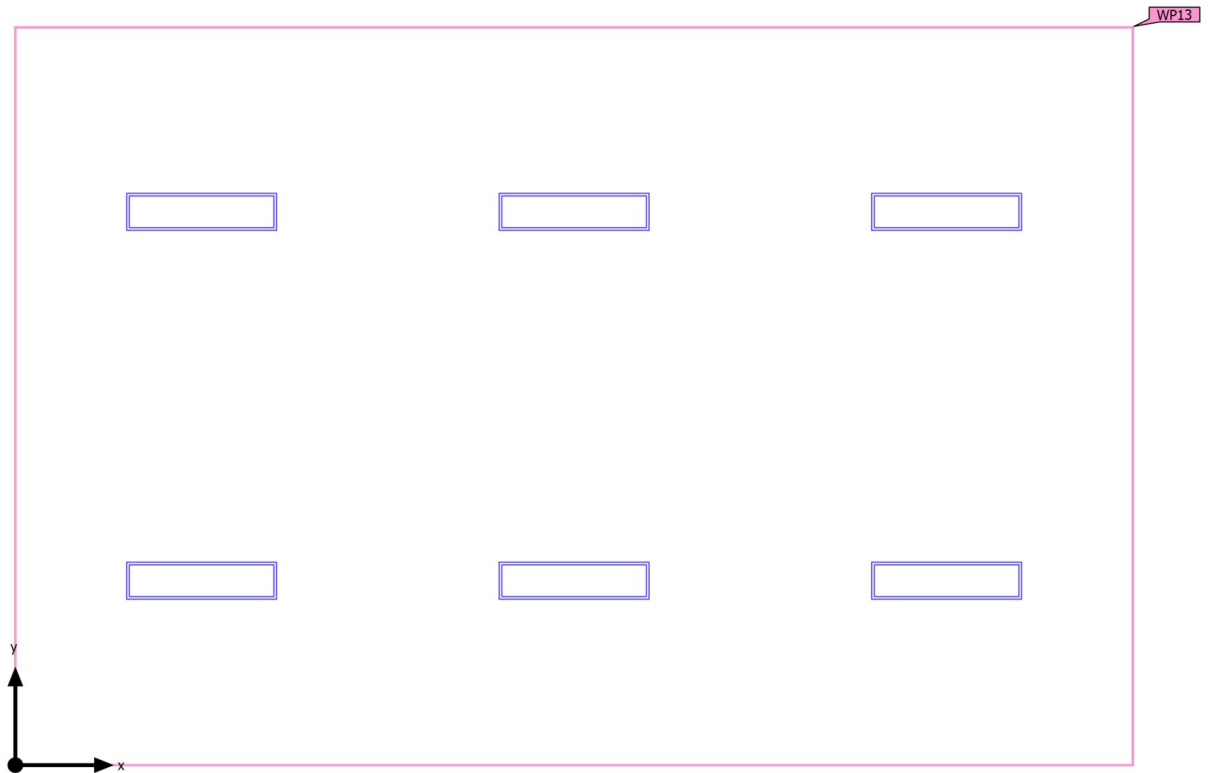
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Calculation objects**

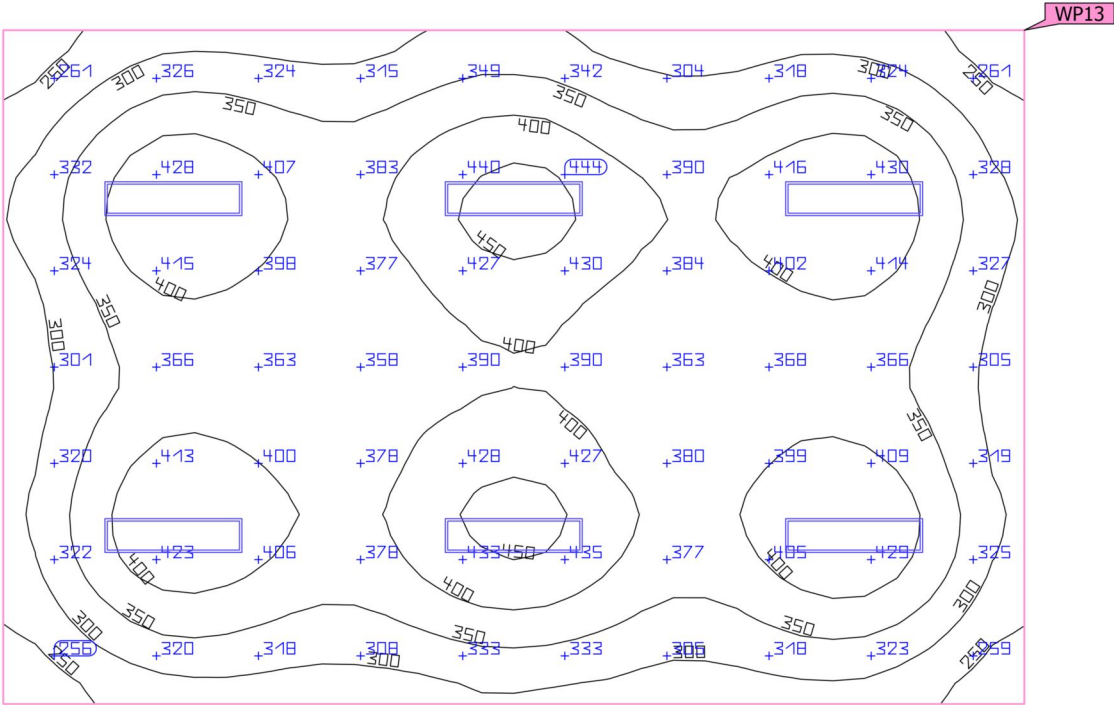
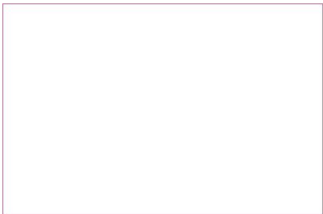
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	363 lx ( $\geq 300$ lx) ✓	214 lx	467 lx	0.59	0.46	WP13

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Working plane (Klase/Classroom)**

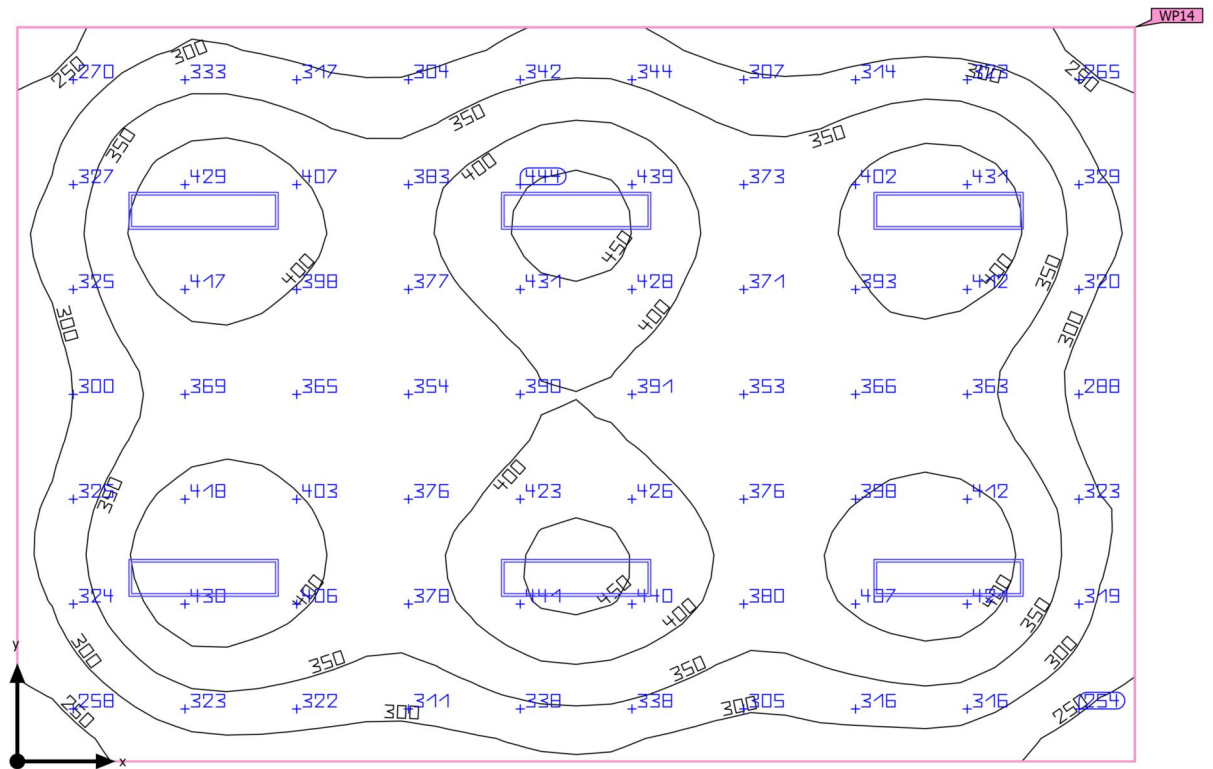


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom)	363 lx	214 lx	467 lx	0.59	0.46	WP13
Perpendicular illuminance (adaptive)	(≥ 300 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	362 lx	$\geq 300$ lx	✓	WP14
	$g_1$	0.59	-	-	WP14
Consumption values	Consumption	270 kWh/a	max. 1850 kWh/a	✓	
Room	Lighting power density	3.88 W/m <sup>2</sup>	-	-	
		1.07 W/m <sup>2</sup> /100 lx	-	-	

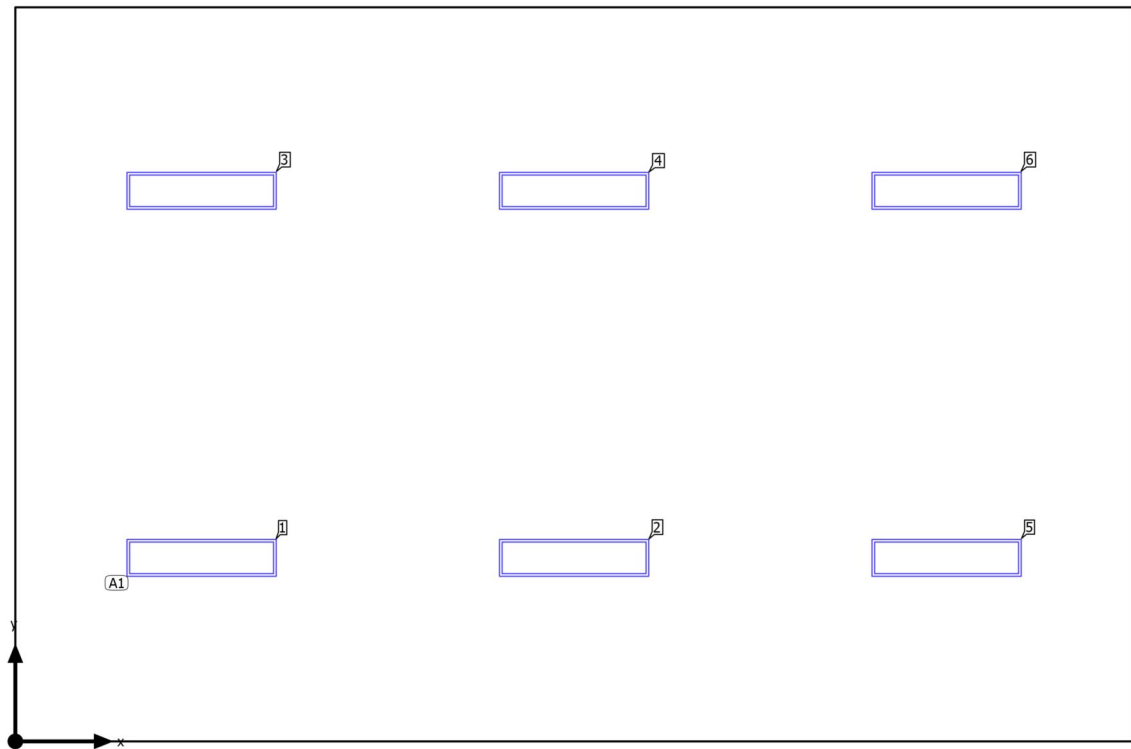
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

6 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.492 m / 1.470 m / 2.800 m	1.492 m	1.470 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.983 m	4.475 m	1.470 m	2.800 m	2
Y-direction	2 pcs., Center - center, 2.940 m	1.492 m	4.411 m	2.800 m	3
		4.475 m	4.411 m	2.800 m	4
Arrangement	A1	7.458 m	1.470 m	2.800 m	5
		7.458 m	4.411 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

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

23580 lm

 $P_{\text{total}}$ 

204.0 W

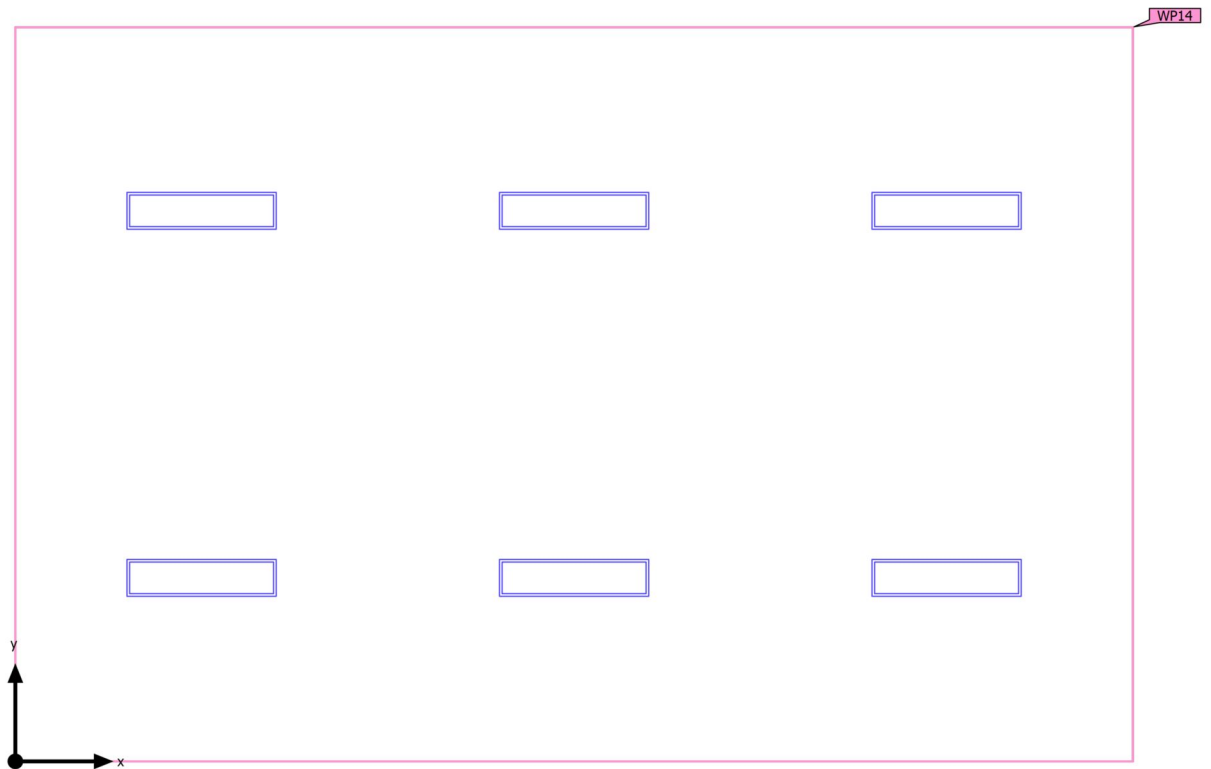
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Calculation objects**

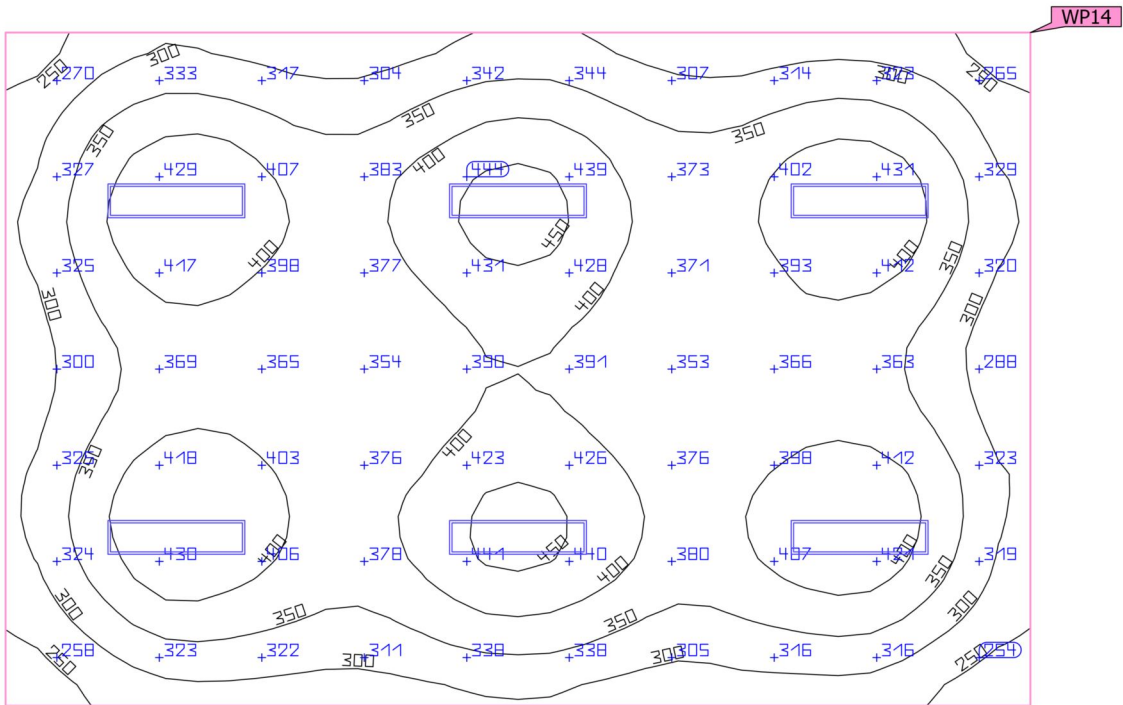
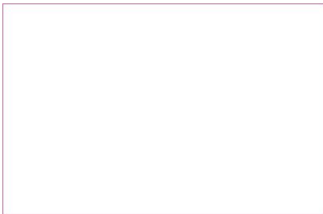
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	362 lx ( $\geq 300$ lx) ✓	212 lx	468 lx	0.59	0.45	WP14

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

Working plane (Klase/Classroom)

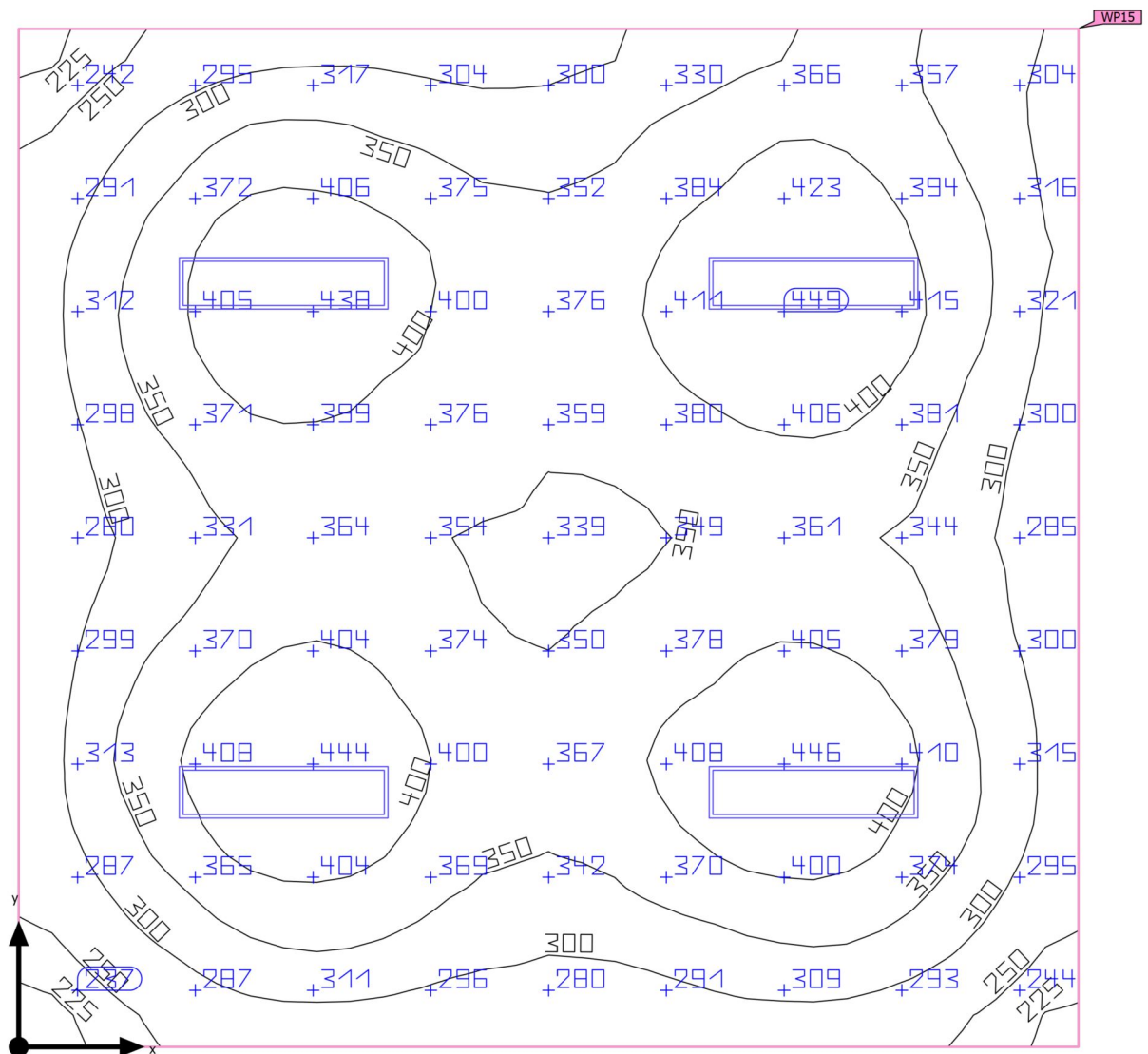


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom)	362 lx	212 lx	468 lx	0.59	0.45	WP14
Perpendicular illuminance (adaptive)	(≥ 300 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	352 lx	$\geq 300$ lx	✓	WP15
	$g_1$	0.61	-	-	WP15
Consumption values	Consumption	180 kWh/a	max. 1250 kWh/a	✓	
Room	Lighting power density	3.84 W/m <sup>2</sup>	-	-	
		1.09 W/m <sup>2</sup> /100 lx	-	-	

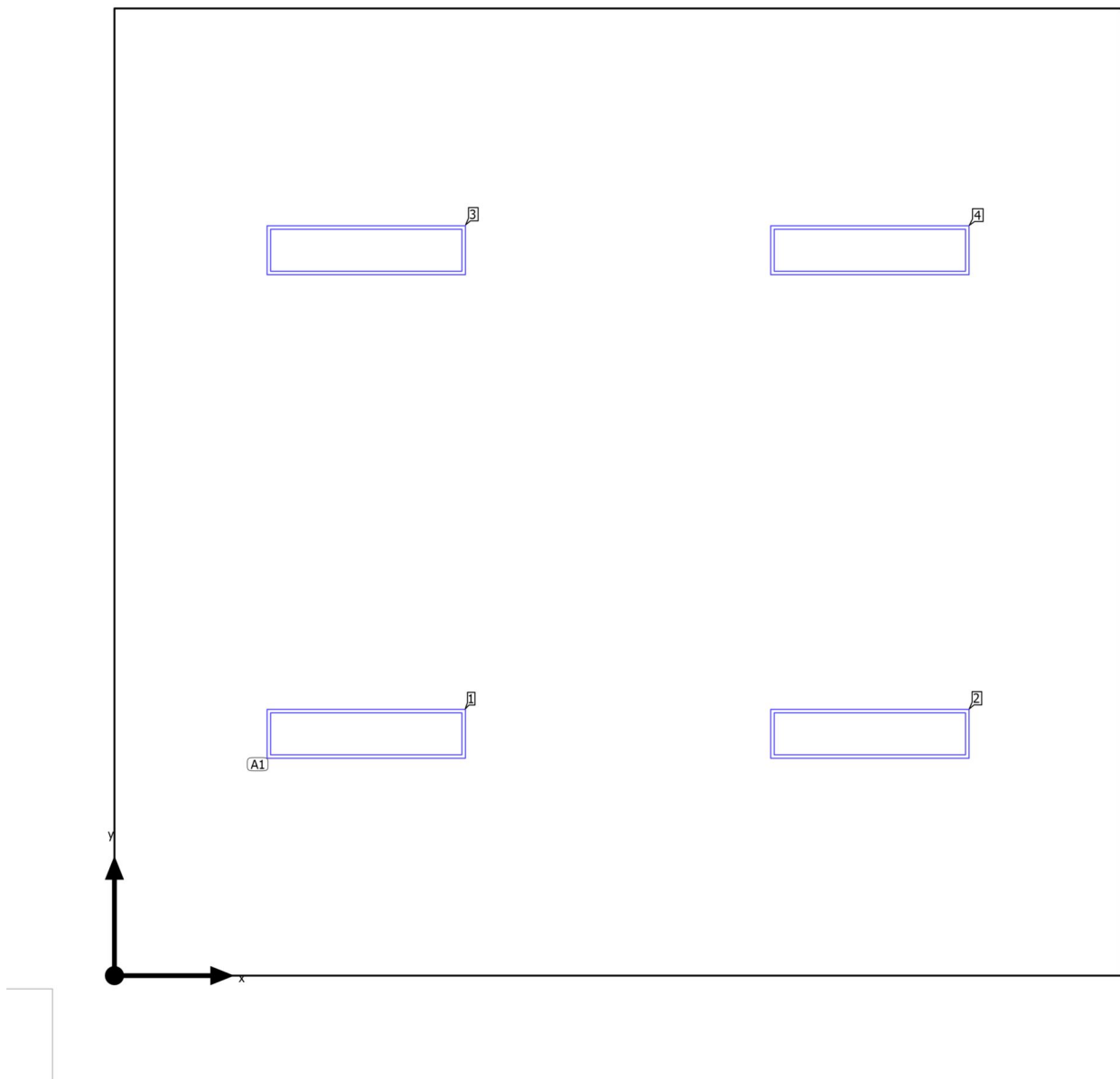
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

4 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.517 m / 1.457 m / 2.800 m	1.517 m	1.457 m	2.800 m	1
X-direction	2 pcs., Center - center, 3.035 m	4.552 m	1.457 m	2.800 m	2
Y-direction	2 pcs., Center - center, 2.915 m	1.517 m	4.373 m	2.800 m	3
		4.552 m	4.373 m	2.800 m	4
Arrangement	A1				

Building 1 · Story 1 · Klase/Classroom

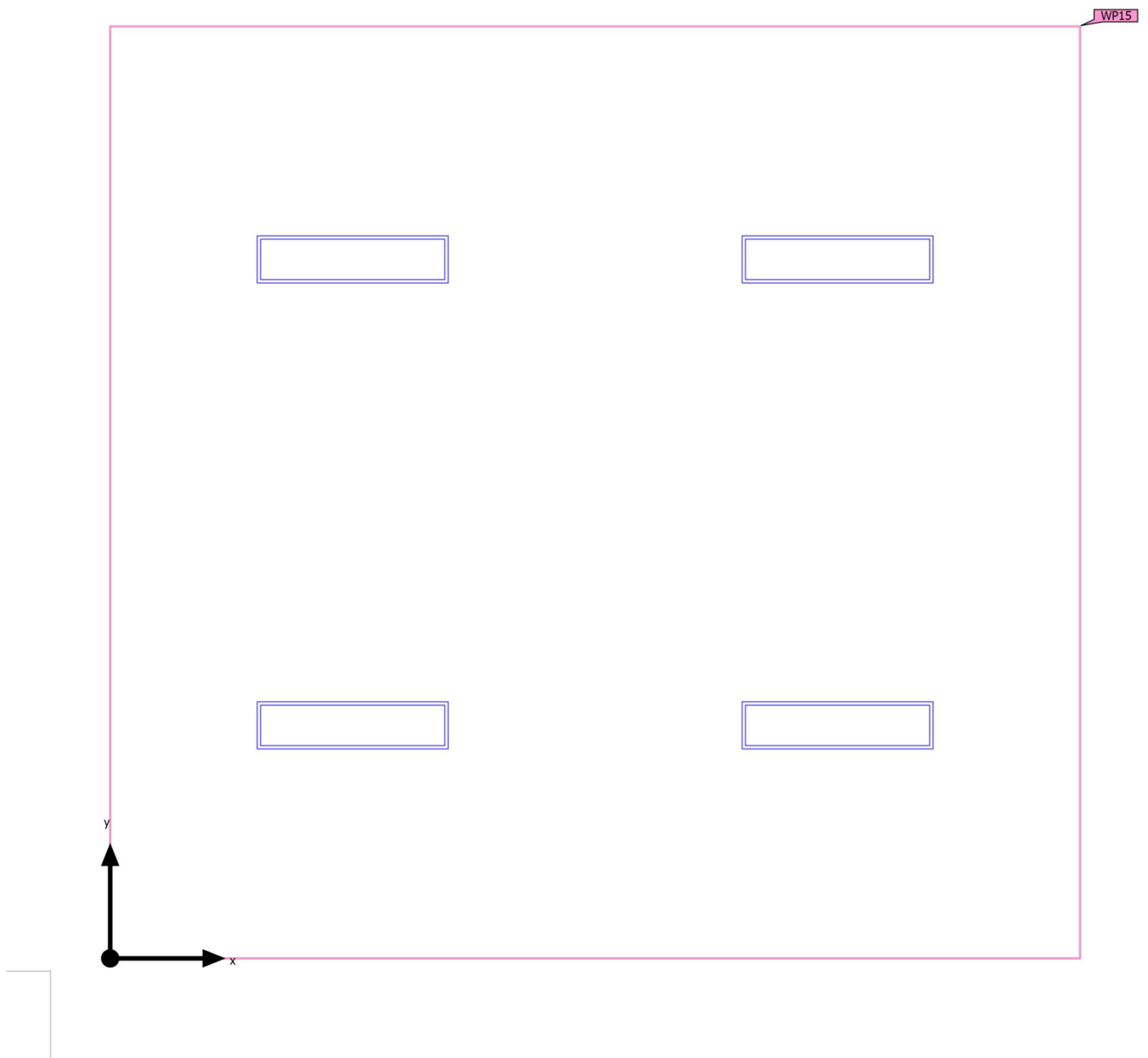
**Luminaire list**

$\Phi_{\text{total}}$ 15720 lm	$P_{\text{total}}$ 136.0 W	Luminous efficacy 115.6 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

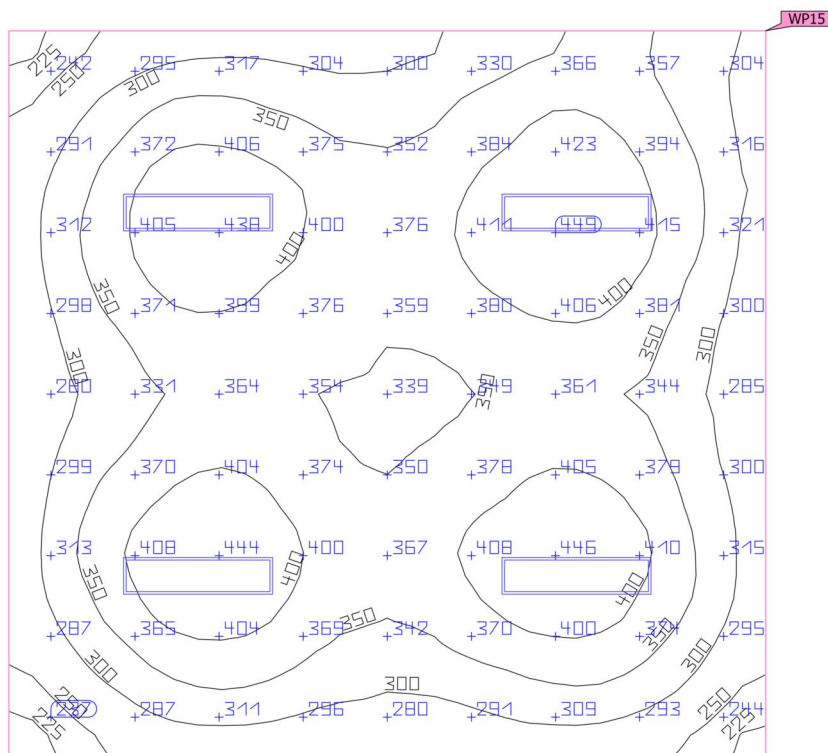
**Calculation objects**

## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	352 lx ( $\geq 300$ lx) ✓	214 lx	447 lx	0.61	0.48	WP15

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

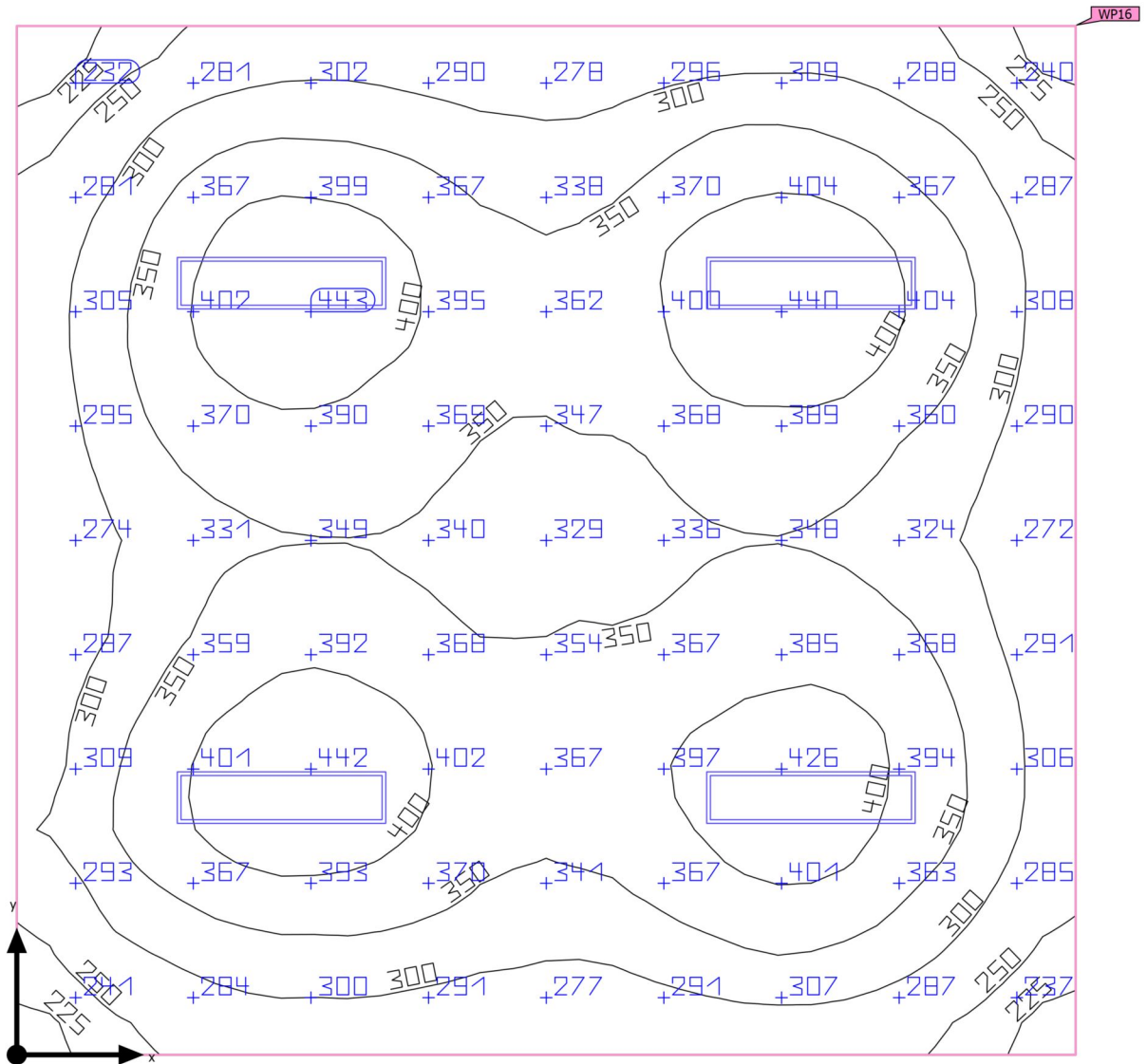
Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Working plane (Klase/Classroom)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom)	352 lx	214 lx	447 lx	0.61	0.48	WP15
Perpendicular illuminance (adaptive)	( $\geq 300$ lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Summary**

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	341 lx	$\geq 300$ lx	✓	WP16
	$g_1$	0.61	-	-	WP16
Consumption values	Consumption	180 kWh/a	max. 1300 kWh/a	✓	
Room	Lighting power density	3.80 W/m <sup>2</sup>	-	-	
		1.12 W/m <sup>2</sup> /100 lx	-	-	

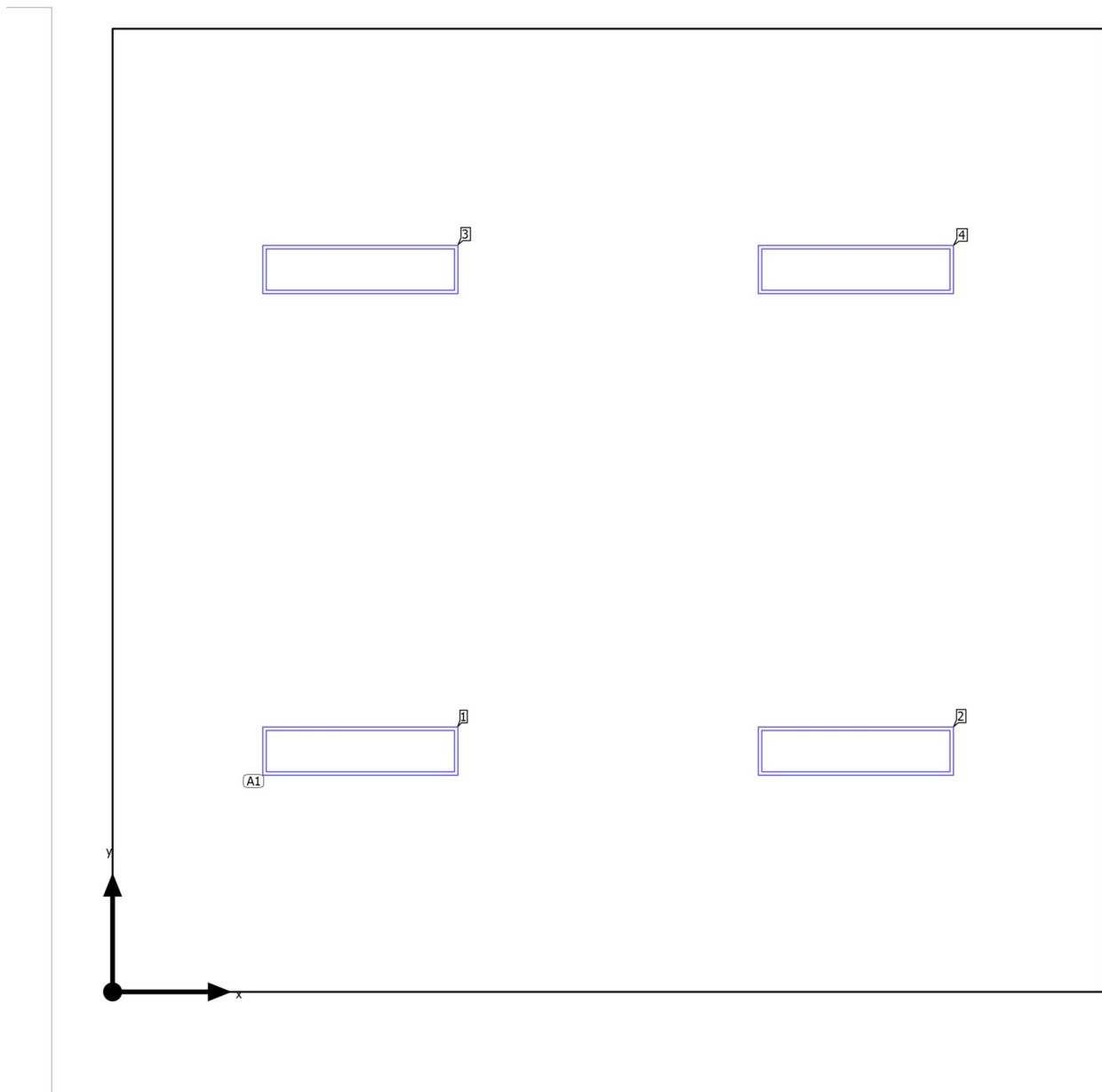
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

4 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.517 m / 1.475 m / 2.800 m	1.517 m	1.475 m	2.800 m	1
X-direction	2 pcs., Center - center, 3.035 m	4.552 m	1.475 m	2.800 m	2
Y-direction	2 pcs., Center - center, 2.950 m	1.517 m	4.425 m	2.800 m	3
		4.552 m	4.425 m	2.800 m	4
Arrangement	A1				

Building 1 · Story 1 · Klase/Classroom

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

15720 lm

 $P_{\text{total}}$ 

136.0 W

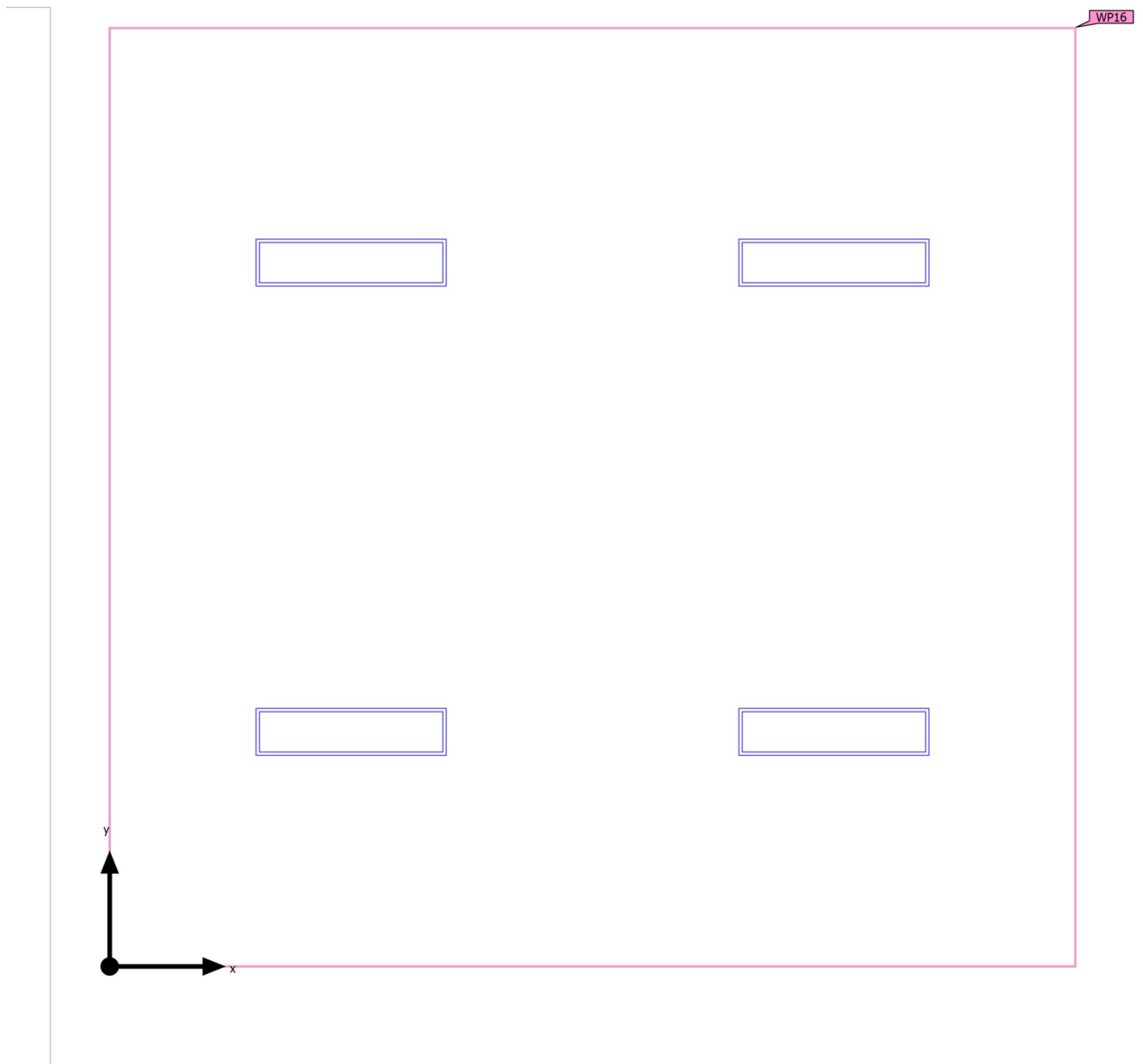
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

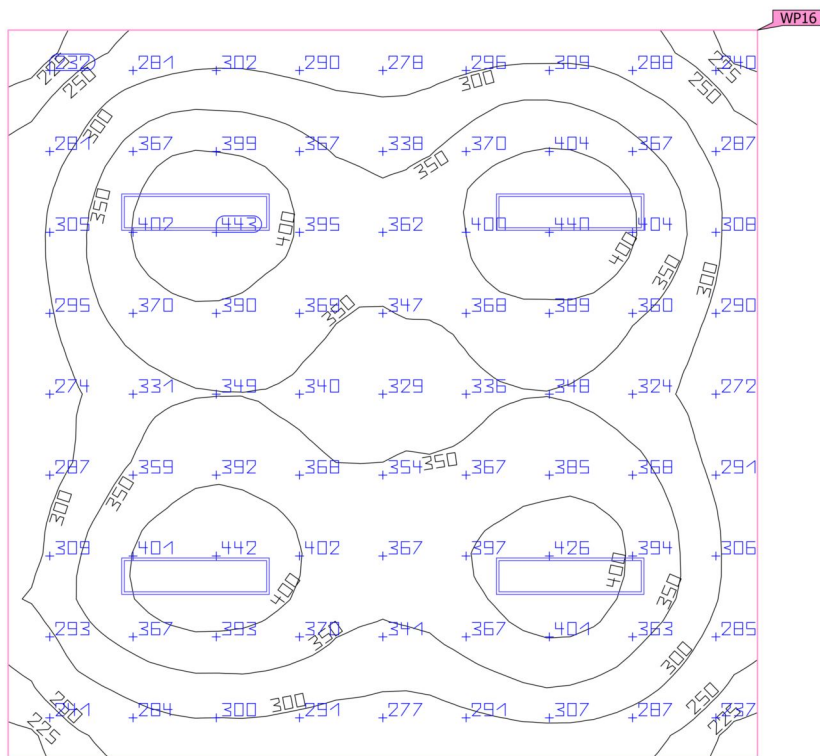
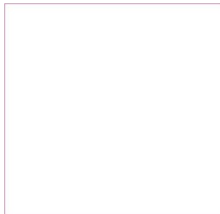
**Calculation objects**

## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	341 lx ( $\geq 300$ lx) ✓	208 lx	442 lx	0.61	0.47	WP16

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

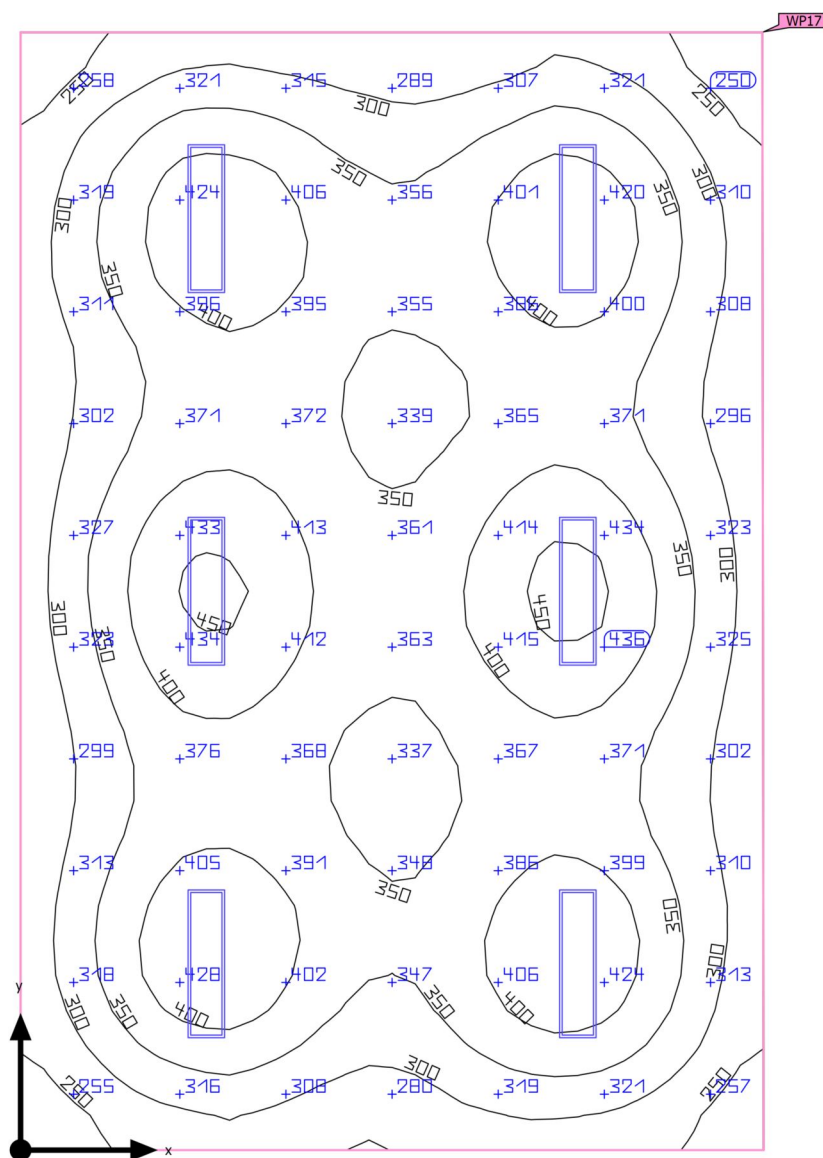
Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Working plane (Klase/Classroom)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom)	341 lx	208 lx	442 lx	0.61	0.47	WP16
Perpendicular illuminance (adaptive)	(≥ 300 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Summary**

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	352 lx	$\geq 300$ lx	✓	WP17
	$g_1$	0.60	-	-	WP17
Consumption values	Consumption	270 kWh/a	max. 1950 kWh/a	✓	
Room	Lighting power density	3.76 W/m <sup>2</sup>	-	-	
		1.07 W/m <sup>2</sup> /100 lx	-	-	

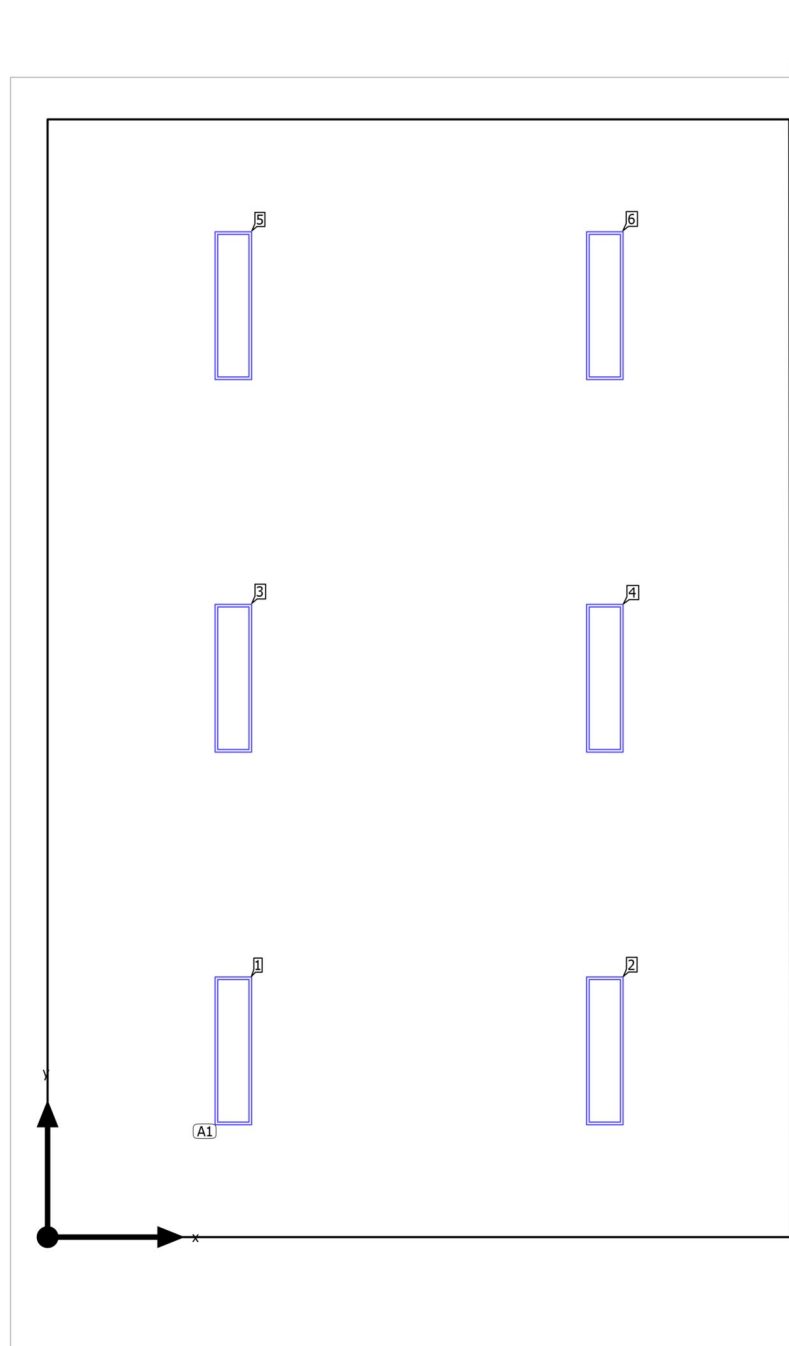
Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom

## Luminaire layout plan





Building 1 · Story 1 · Klase/Classroom

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

6 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.503 m / 1.507 m / 2.800 m	1.503 m	1.507 m	2.800 m	1
X-direction	2 pcs., Center - center, 3.005 m	4.508 m	1.507 m	2.800 m	2
Y-direction	3 pcs., Center - center, 3.013 m	1.503 m	4.520 m	2.800 m	3
		4.508 m	4.520 m	2.800 m	4
Arrangement	A1	1.503 m	7.533 m	2.800 m	5
		4.508 m	7.533 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

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

23580 lm

 $P_{\text{total}}$ 

204.0 W

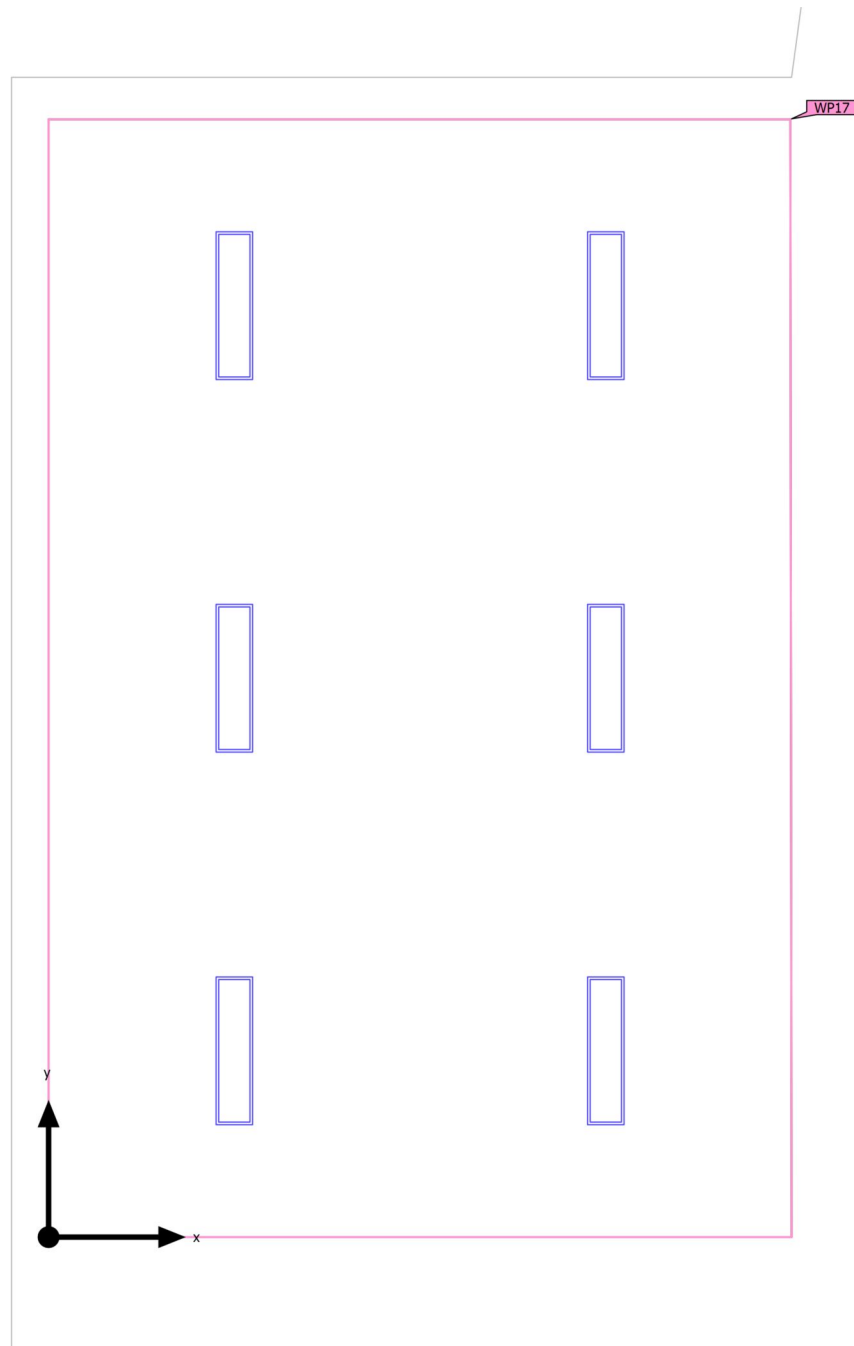
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
6	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Klase/Classroom (Light scene 1)

**Calculation objects**

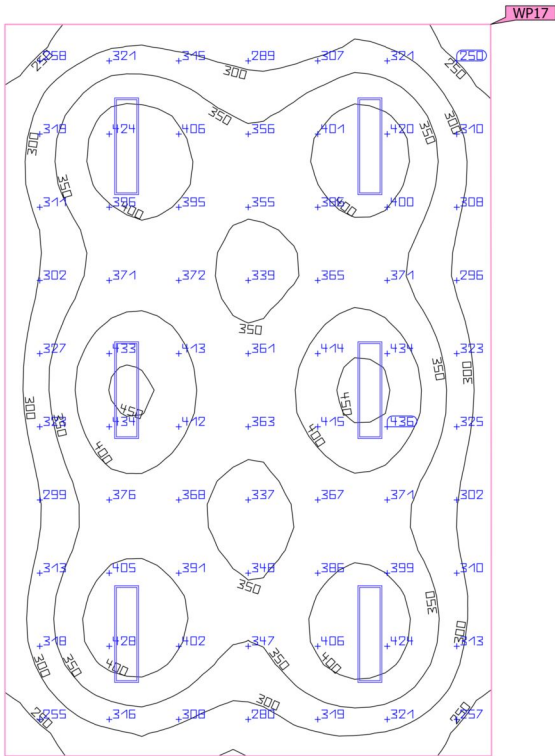
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	352 lx ( $\geq 300$ lx) ✓	212 lx	461 lx	0.60	0.46	WP17

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

Building 1 · Story 1 · Klase/Classroom (Light scene 1)

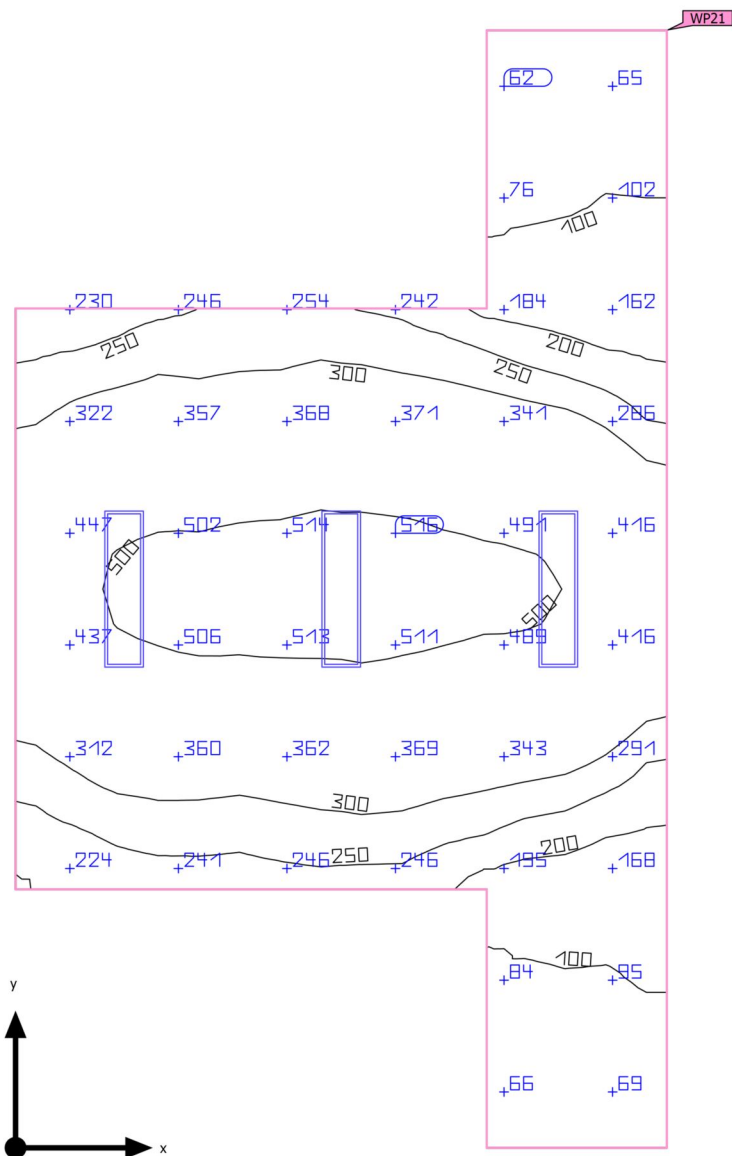
Working plane (Klase/Classroom)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Klase/Classroom)	352 lx	212 lx	461 lx	0.60	0.46	WP17
Perpendicular illuminance (adaptive)	(≥ 300 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Classrooms, tutorial rooms

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

**Summary**

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

## Summary

### Results

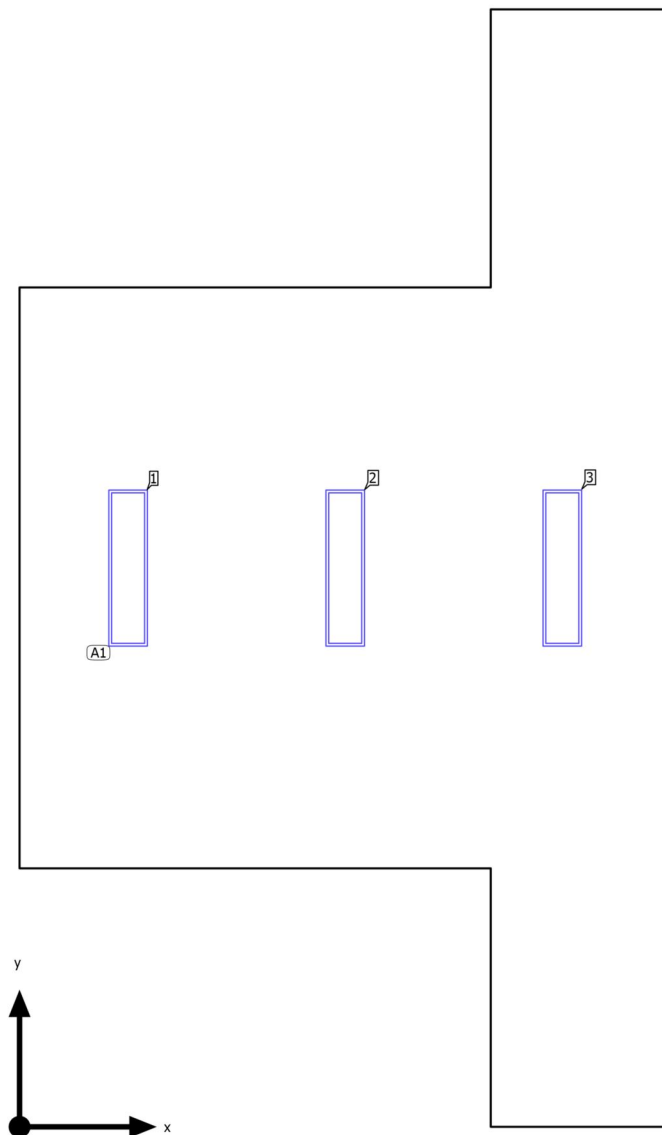
	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	311 lx	$\geq 200$ lx	✓	WP21
	$g_1$	0.19	-	-	WP21
Consumption values	Consumption	200 kWh/a	max. 1000 kWh/a	✓	
Room	Lighting power density	3.66 W/m <sup>2</sup>	-	-	
		1.18 W/m <sup>2</sup> /100 lx	-	-	

Utilization profile: Educational premises - Educational buildings, Entrance halls

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Koridor  
**Luminaire layout plan**





Building 1 · Story 1 · Koridor

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

3 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	0.832 m / 4.280 m / 2.800 m	0.832 m	4.280 m	2.800 m	1
X-direction	3 pcs., Center - center, 1.663 m	2.495 m	4.280 m	2.800 m	2
Y-direction	1 pcs., Center - center, 8.560 m	4.158 m	4.280 m	2.800 m	3
Arrangement	A1				

Building 1 · Story 1 · Koridor

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

11790 lm

 $P_{\text{total}}$ 

102.0 W

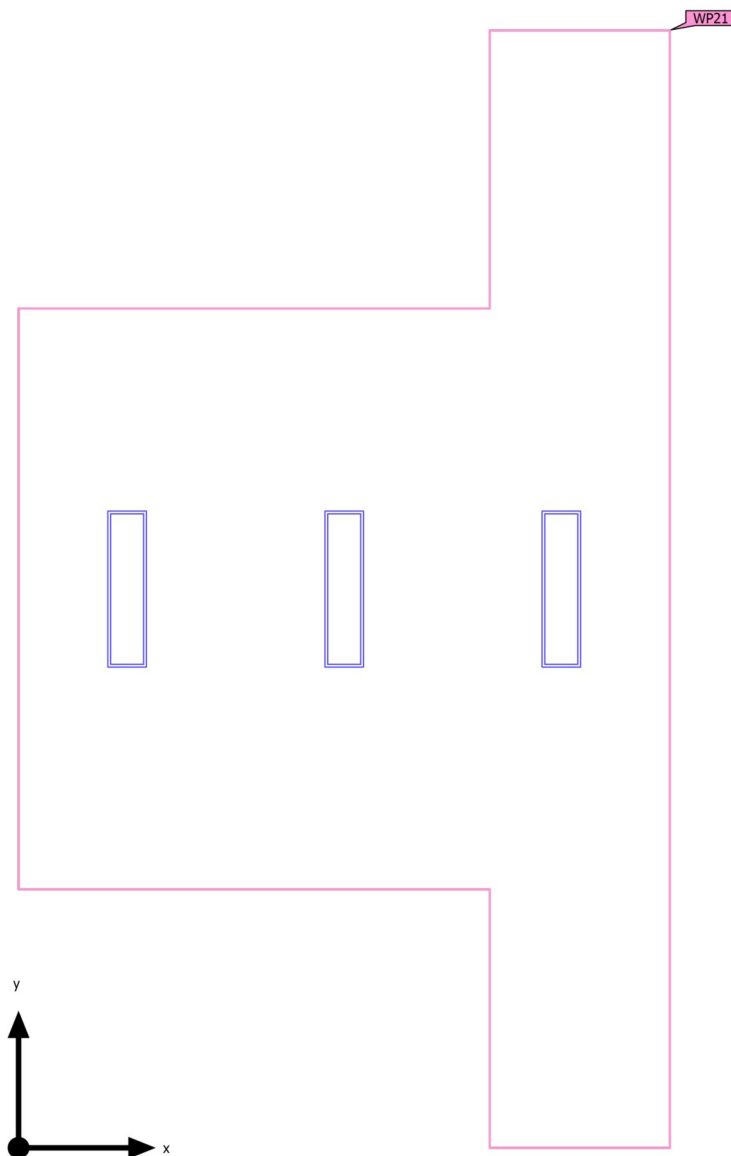
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
3	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

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

## Calculation objects



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

**Calculation objects**

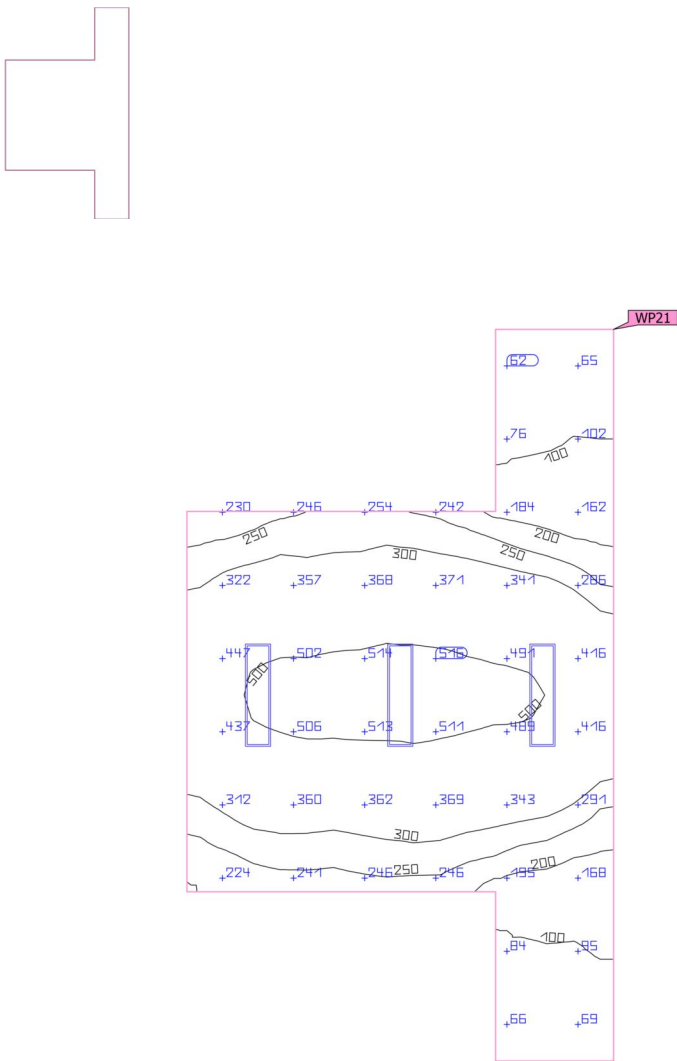
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	311 lx ( $\geq 200$ lx) ✓	59.8 lx	548 lx	0.19	0.11	WP21

Utilization profile: Educational premises - Educational buildings, Entrance halls

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

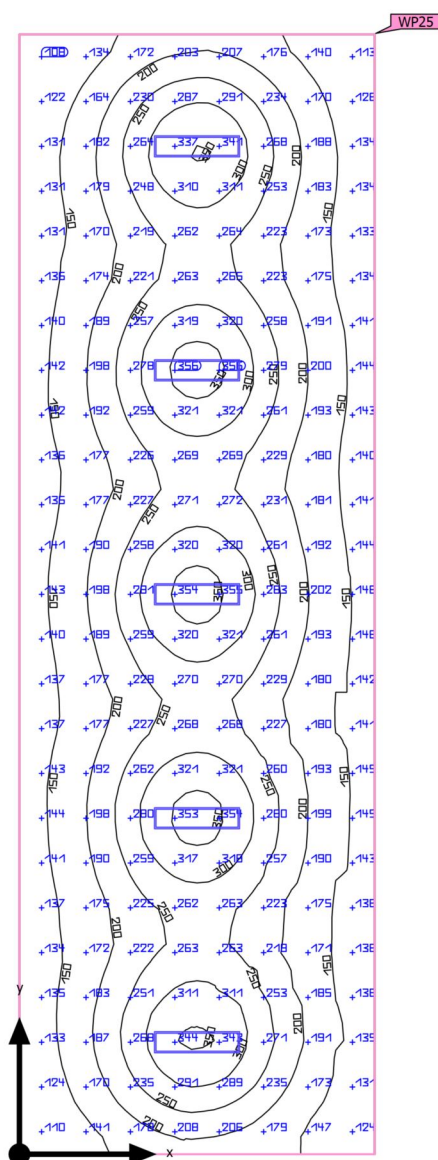
Working plane (Koridor)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	311 lx (≥ 200 lx) ✓	59.8 lx	548 lx	0.19	0.11	WP21

Utilization profile: Educational premises - Educational buildings, Entrance halls

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

**Summary**

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

## Summary

### Results

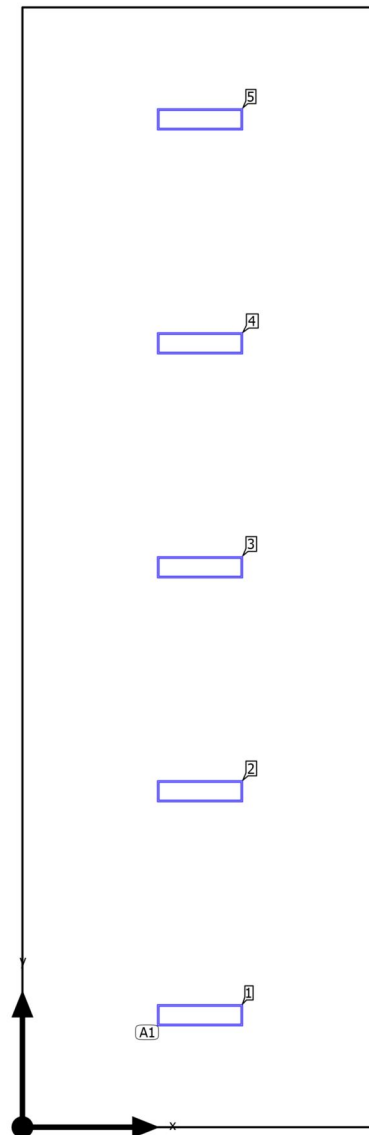
	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	214 lx	$\geq 200$ lx	✓	WP25
	$g_1$	0.47	-	-	WP25
Consumption values	Consumption	330 kWh/a	max. 2750 kWh/a	✓	
Room	Lighting power density	2.17 W/m <sup>2</sup>	-	-	
		1.01 W/m <sup>2</sup> /100 lx	-	-	

Utilization profile: Educational premises - Educational buildings, Entrance halls

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
5	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Koridor  
**Luminaire layout plan**





Building 1 · Story 1 · Koridor

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

5 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	2.495 m / 1.573 m / 2.800 m	2.495 m	1.573 m	2.800 m	1
X-direction	1 pcs., Center - center, 4.990 m	2.495 m	4.719 m	2.800 m	2
Y-direction	5 pcs., Center - center, 3.146 m	2.495 m	7.865 m	2.800 m	3
		2.495 m	11.011 m	2.800 m	4
Arrangement	A1	2.495 m	14.157 m	2.800 m	5

Building 1 · Story 1 · Koridor

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

19650 lm

 $P_{\text{total}}$ 

170.0 W

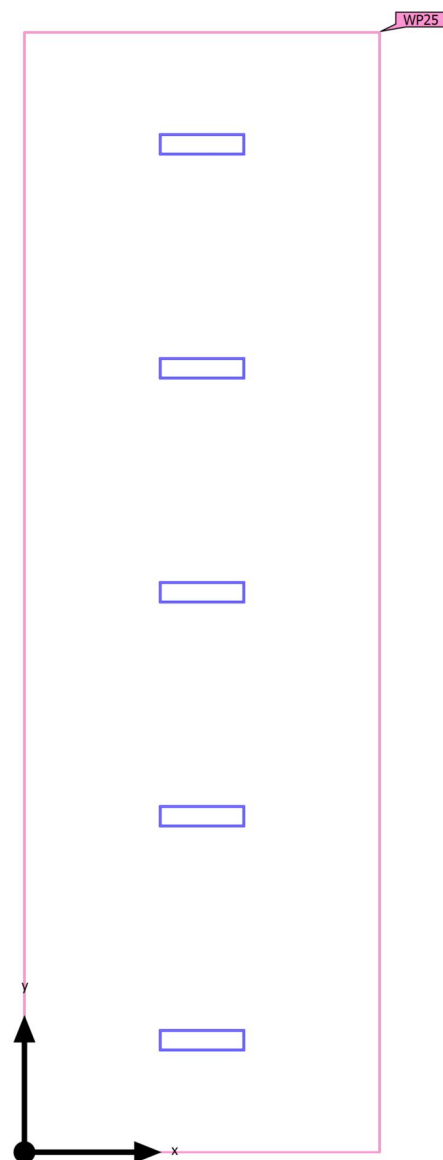
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
5	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

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

## Calculation objects



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

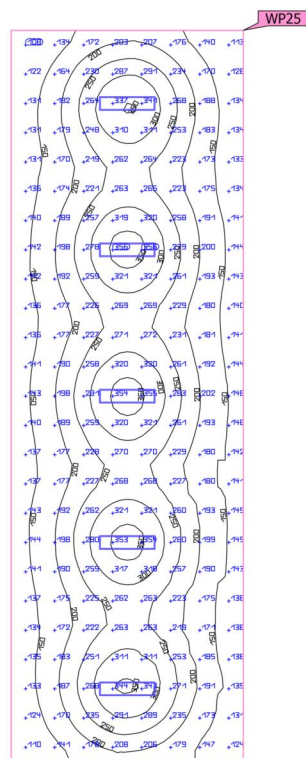
**Calculation objects**

## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	214 lx ( $\geq 200$ lx) ✓	101 lx	367 lx	0.47	0.28	WP25

Utilization profile: Educational premises - Educational buildings, Entrance halls

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

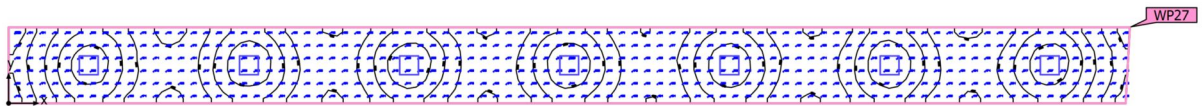
**Working plane (Koridor)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Koridor)	214 lx	101 lx	367 lx	0.47	0.28	WP25
Perpendicular illuminance (adaptive)	$\geq 200$ lx					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Entrance halls

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

## Summary



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

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	221 lx	$\geq 100$ lx	✓	WP27
	$g_1$	0.52	-	-	WP27
Consumption values	Consumption	260 kWh/a	max. 2900 kWh/a	✓	
Room	Lighting power density	2.90 W/m <sup>2</sup>	-	-	
		1.31 W/m <sup>2</sup> /100 lx	-	-	

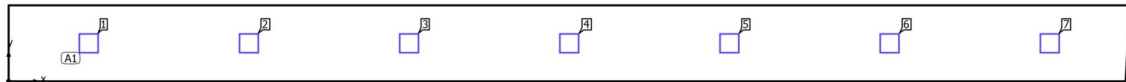
Utilization profile: Health care premises - Rooms for general use, Corridors: Cleaning

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
7	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm	119.4 lm/W

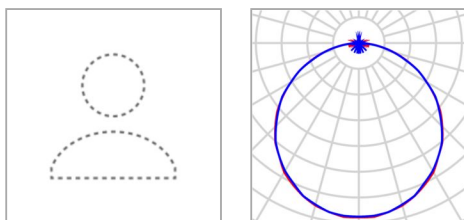
Building 1 · Story 1 · Koridor

## Luminaire layout plan





Building 1 · Story 1 · Koridor

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member
Article No.	0042872
Article name	START Panel 600x600 HE 4100Lm 830 LILO
Fitting	1x LED

P	34.0 W
$\Phi_{\text{Luminaire}}$	4061 lm

7 x Not yet a DIALux member START Panel 600x600 HE 4100Lm 830 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	2.488 m / 1.180 m / 2.800 m	2.488 m	1.180 m	2.800 m	1
X-direction	7 pcs., Center - center, 4.976 m	7.464 m	1.180 m	2.800 m	2
Y-direction	1 pcs., Center - center, 2.360 m	12.440 m	1.180 m	2.800 m	3
Arrangement	A1	17.415 m	1.180 m	2.800 m	4
		22.391 m	1.180 m	2.800 m	5
		27.367 m	1.180 m	2.800 m	6
		32.343 m	1.180 m	2.800 m	7

Building 1 · Story 1 · Koridor

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

28427 lm

 $P_{\text{total}}$ 

238.0 W

Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
7	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm	119.4 lm/W

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

## Calculation objects



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

**Calculation objects**

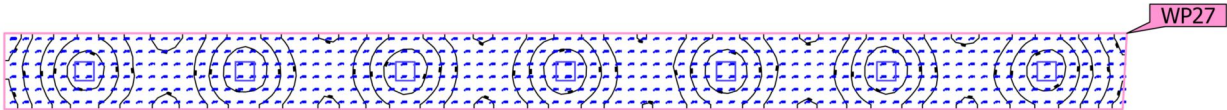
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	221 lx ( $\geq 100$ lx) ✓	114 lx	341 lx	0.52	0.33	WP27

Utilization profile: Health care premises - Rooms for general use, Corridors: Cleaning

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

Working plane (Koridor)

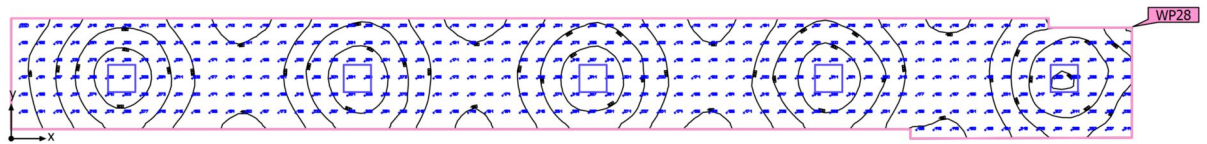


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	221 lx (≥ 100 lx) ✓	114 lx	341 lx	0.52	0.33	WP27

Utilization profile: Health care premises - Rooms for general use, Corridors: Cleaning

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

## Summary



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

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	224 lx	$\geq 100$ lx	✓	WP28
	$g_1$	0.51	-	-	WP28
Consumption values	Consumption	190 kWh/a	max. 2050 kWh/a	✓	
Room	Lighting power density	2.97 W/m <sup>2</sup>	-	-	
		1.32 W/m <sup>2</sup> /100 lx	-	-	

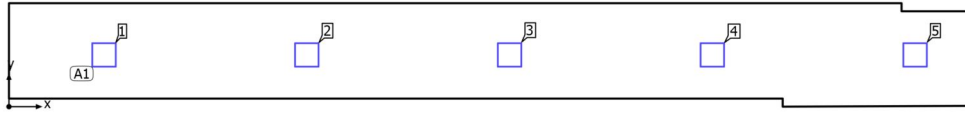
Utilization profile: Health care premises - Rooms for general use, Corridors: Cleaning

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
5	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm	119.4 lm/W

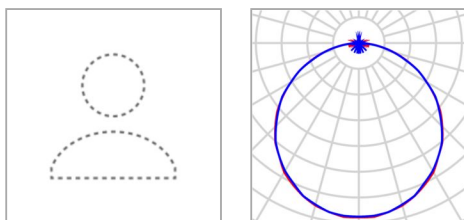
Building 1 · Story 1 · Koridor

## Luminaire layout plan





Building 1 · Story 1 · Koridor

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042872	$\Phi_{\text{Luminaire}}$	4061 lm
Article name	START Panel 600x600 HE 4100Lm 830 LILO		
Fitting	1x LED		

6 x Not yet a DIALux member START Panel 600x600 HE 4100Lm 830 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	2.359 m / 1.285 m / 2.800 m	2.359 m	1.285 m	2.800 m	1
X-direction	6 pcs., Center - center, Distances not equal	7.391 m	1.285 m	2.800 m	2
		12.423 m	1.285 m	2.800 m	3
Y-direction	1 pcs., Center - center, Distances not equal	17.454 m	1.285 m	2.800 m	4
		22.486 m	1.285 m	2.800 m	5
Arrangement	A1				

Building 1 · Story 1 · Koridor

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

20305 lm

 $P_{\text{total}}$ 

170.0 W

Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
5	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm	119.4 lm/W

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

## Calculation objects



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

**Calculation objects**

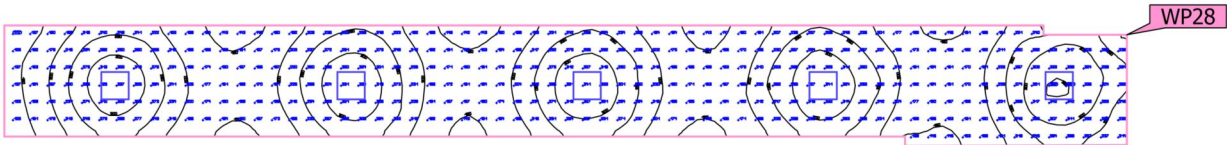
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	224 lx ( $\geq 100$ lx) ✓	114 lx	353 lx	0.51	0.32	WP28

Utilization profile: Health care premises - Rooms for general use, Corridors: Cleaning

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

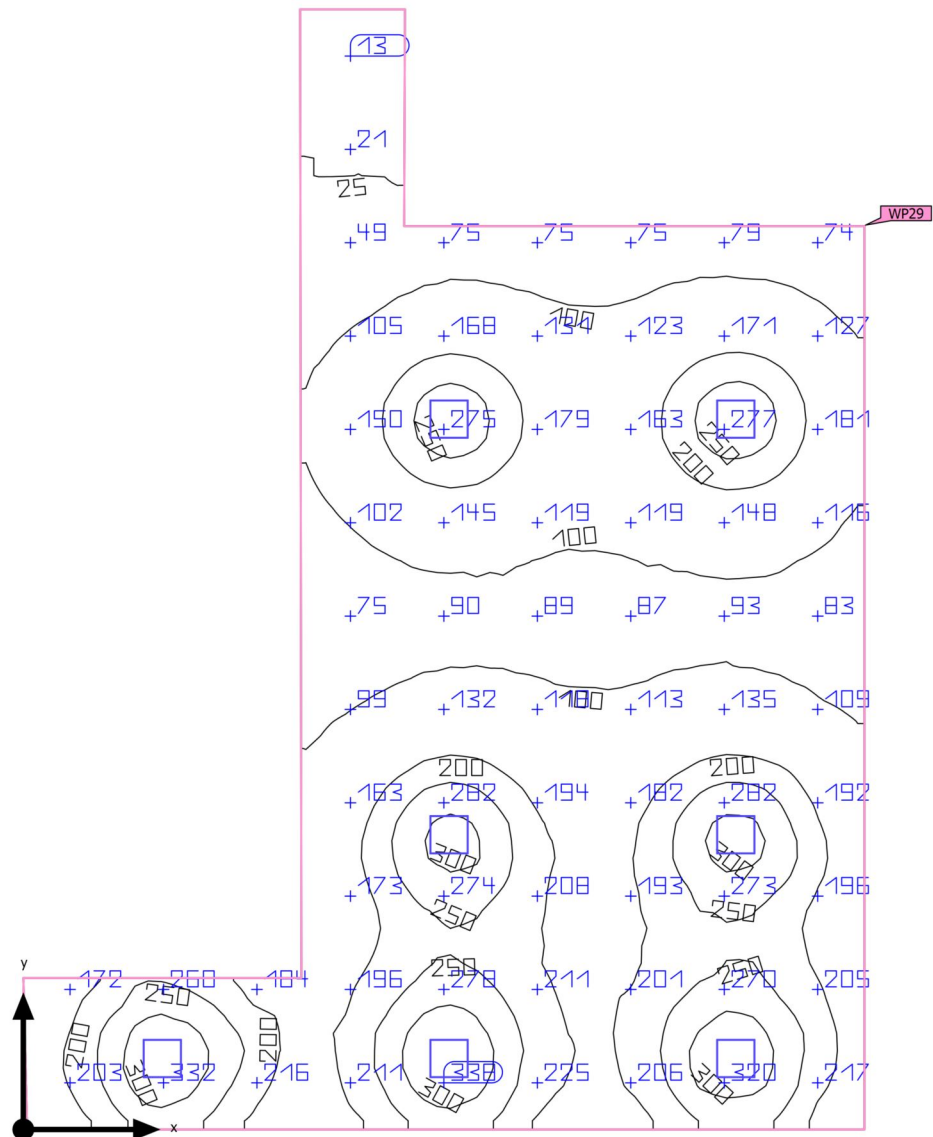
Working plane (Koridor)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	224 lx (≥ 100 lx) ✓	114 lx	353 lx	0.51	0.32	WP28

Utilization profile: Health care premises - Rooms for general use, Corridors: Cleaning

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

**Summary**

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

## Summary

### Results

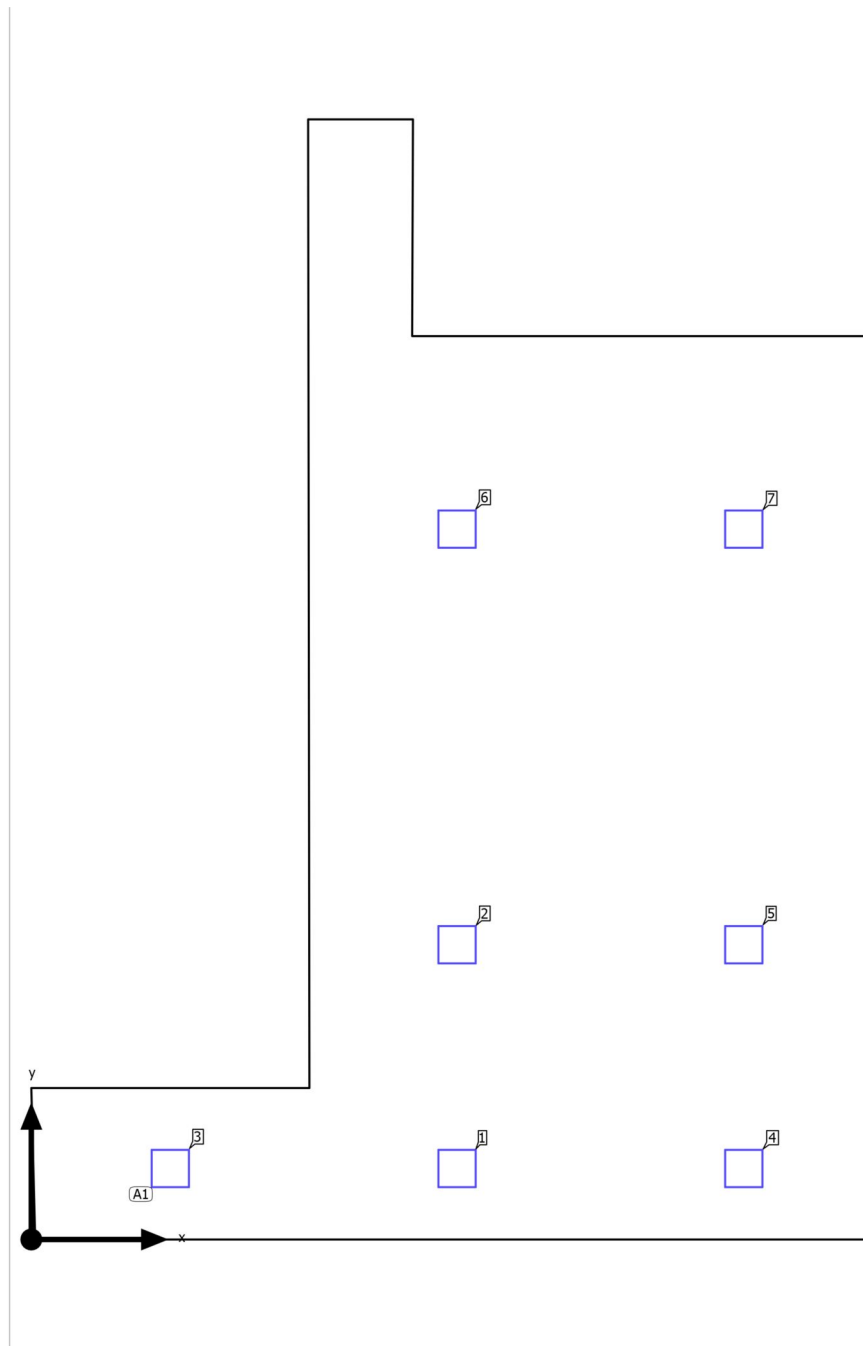
	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	167 lx	$\geq 100$ lx	✓	WP29
	$g_1$	0.059	-	-	WP29
Consumption values	Consumption	260 kWh/a	max. 4950 kWh/a	✓	
Room	Lighting power density	1.70 W/m <sup>2</sup>	-	-	
		1.02 W/m <sup>2</sup> /100 lx	-	-	

Utilization profile: Health care premises - Rooms for general use, Corridors: Cleaning

### Luminaire list

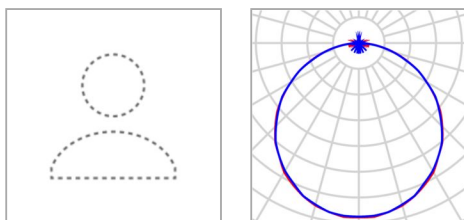
pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
7	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm	119.4 lm/W

Building 1 · Story 1 · Koridor  
**Luminaire layout plan**





Building 1 · Story 1 · Koridor

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member
Article No.	0042872
Article name	START Panel 600x600 HE 4100Lm 830 LILO
Fitting	1x LED

P	34.0 W
$\Phi_{\text{Luminaire}}$	4061 lm

7 x Not yet a DIALux member START Panel 600x600 HE 4100Lm 830 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	6.660 m / 1.110 m / 2.800 m	6.660 m	1.110 m	2.800 m	1
X-direction	3 pcs., Center - center, Distances not equal	6.660 m	4.610 m	2.800 m	2
		2.174 m	1.110 m	2.800 m	3
Y-direction	3 pcs., Center - center, Distances not equal	11.145 m	1.110 m	2.800 m	4
		11.145 m	4.610 m	2.800 m	5
Arrangement	A1	6.660 m	11.110 m	2.800 m	6
		11.145 m	11.110 m	2.800 m	7

Building 1 · Story 1 · Koridor

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

28427 lm

 $P_{\text{total}}$ 

238.0 W

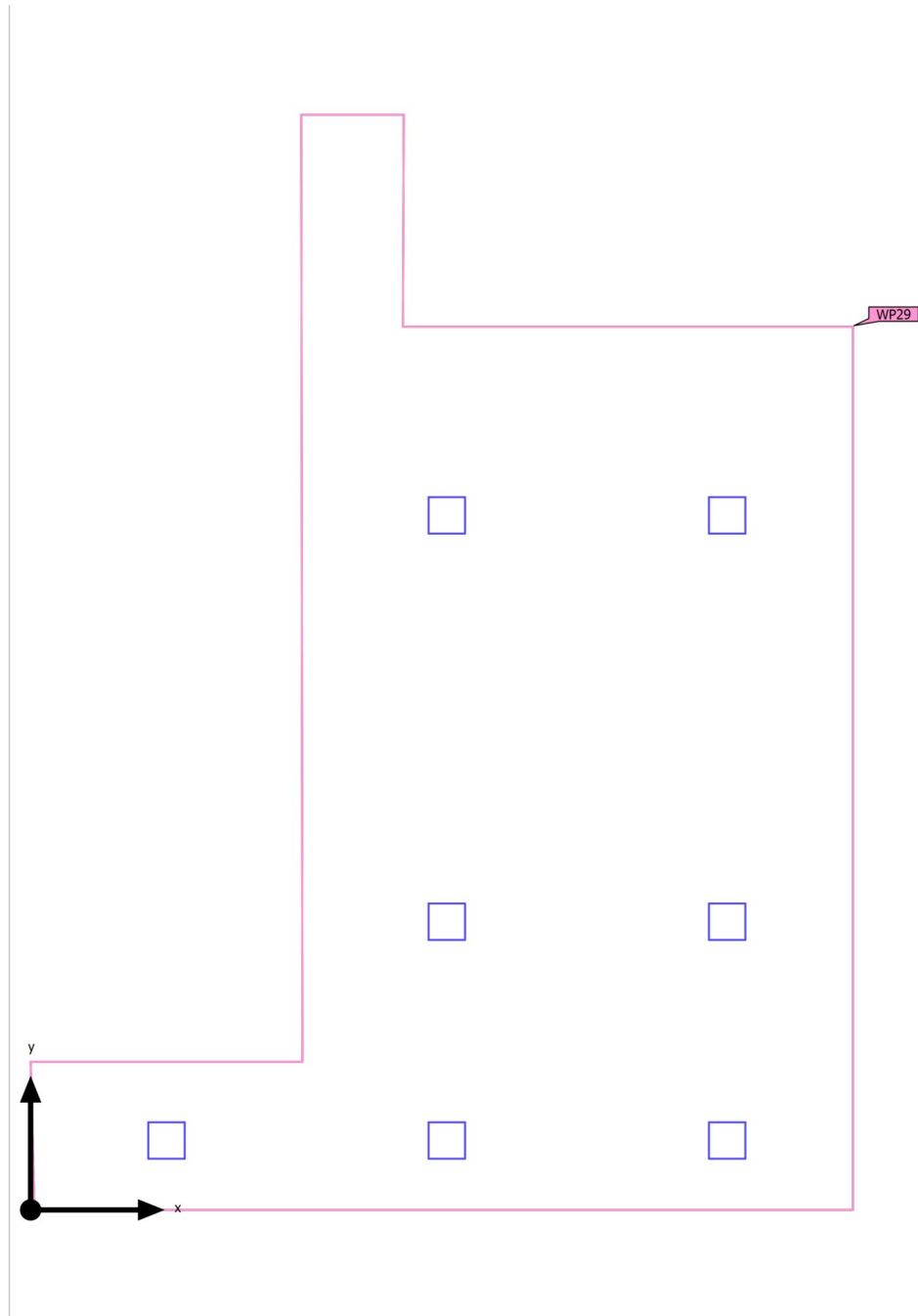
Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
7	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm	119.4 lm/W

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

## Calculation objects



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

**Calculation objects**

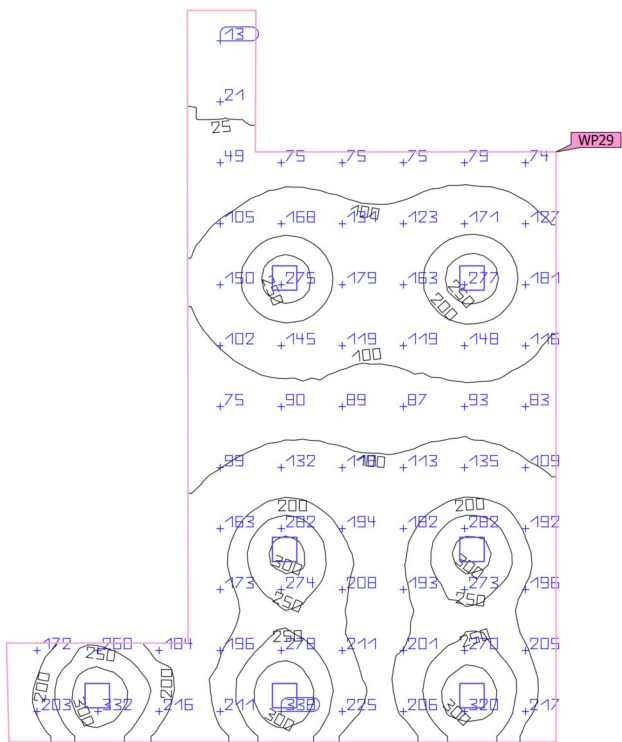
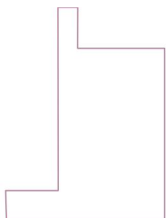
Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	167 lx ( $\geq 100$ lx) ✓	9.90 lx	345 lx	0.059	0.029	WP29

Utilization profile: Health care premises - Rooms for general use, Corridors: Cleaning

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

Working plane (Koridor)

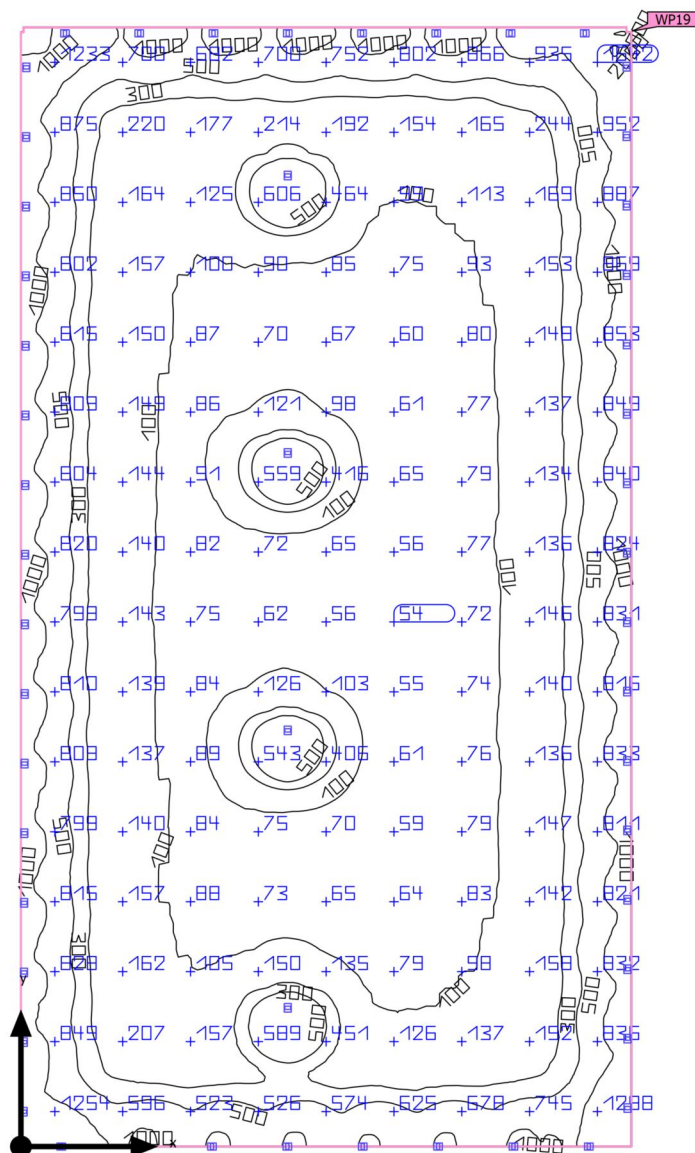


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	167 lx (≥ 100 lx) ✓	9.90 lx	345 lx	0.059	0.029	WP29

Utilization profile: Health care premises - Rooms for general use, Corridors: Cleaning

Building 1 · Story 1 · Salla Sportive (Light scene 1)

## Summary



Ground area: 1007.60 m<sup>2</sup> | Reflection factors: Ceiling: 80.0 %, Walls: 70.0 %, Floor: 30.0 % | Light loss factor: 0.80 (fixed) | Clearance height: 2.800 m | Mounting height: 2.800 m

Building 1 · Story 1 · Salla Sportive (Light scene 1)

## Summary

### Results

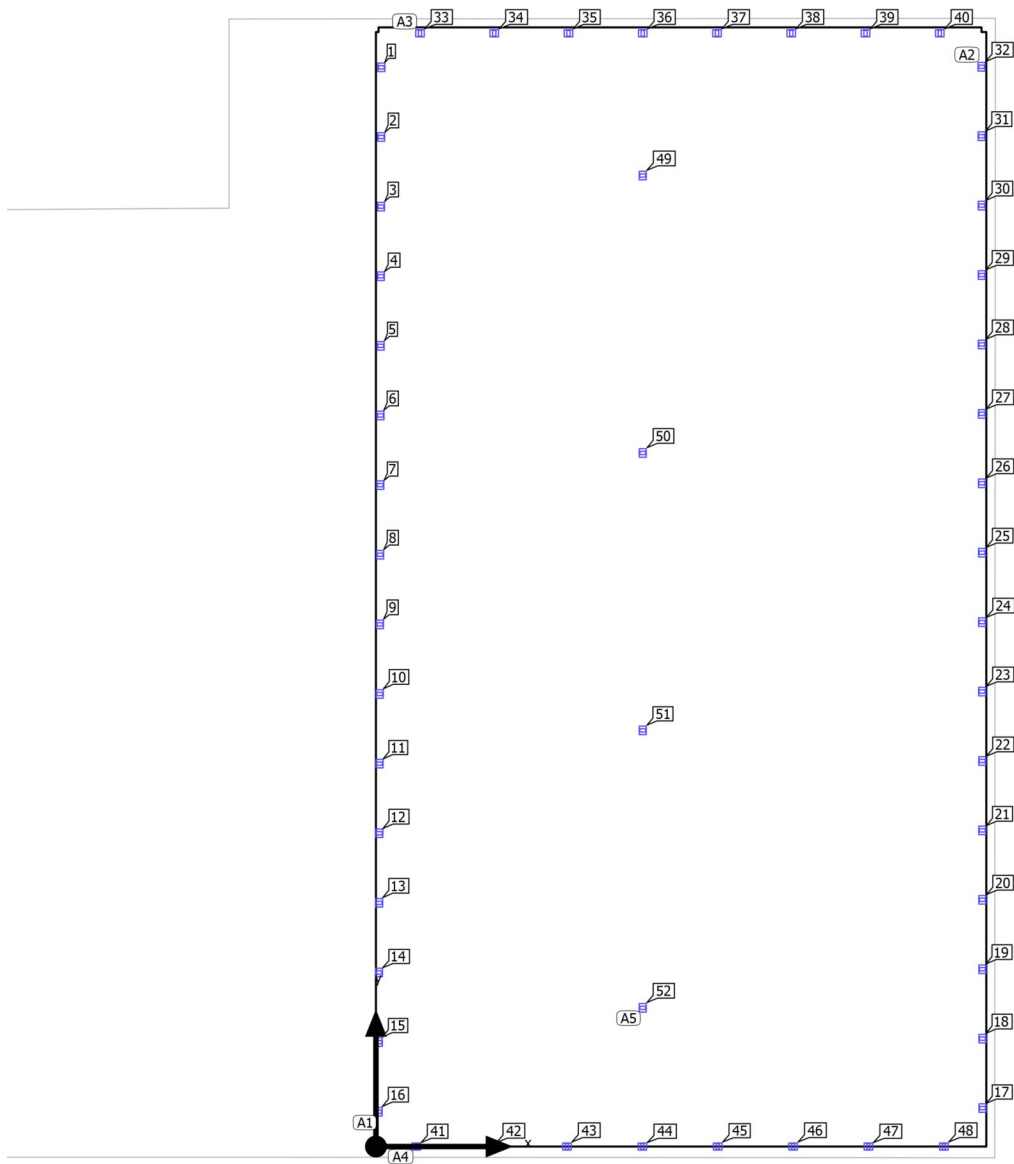
	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	357 lx	$\geq 300$ lx	✓	WP19
	$g_1$	0.14	-	-	WP19
Consumption values	Consumption	14100 kWh/a	max. 35300 kWh/a	✓	
Room	Lighting power density	3.46 W/m <sup>2</sup>	-	-	
		0.97 W/m <sup>2</sup> /100 lx	-	-	

Utilization profile: Educational premises - Educational buildings, Sports halls, gymnasiums, swimming pools

### Luminaire list

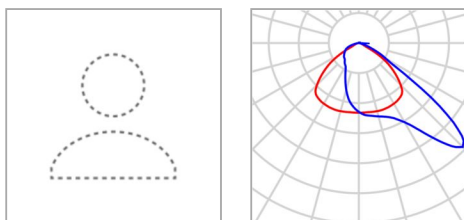
pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
52	Not yet a DIALux member	2824062	RAIDEN IP66 8KLM 840 ASYM	67.0 W	8700 lm	129.9 lm/W

Building 1 · Story 1 · Salla Sportive

**Luminaire layout plan**



Building 1 · Story 1 · Salla Sportive

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member
Article No.	2824062
Article name	RAIDEN IP66 8KLM 840 ASYM
Fitting	1x 2824062 RAIDEN IP66 8KLM 840 ASYM

P	67.0 W
$\Phi_{\text{Luminaire}}$	8700 lm

16 x Not yet a DIALux member RAIDEN IP66 8KLM 840 ASYM

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	0.208 m / 41.445 m / 2.800 m	0.208 m	41.445 m	2.800 m	1
X-direction	16 pcs., Center - center, 2.674 m	0.201 m	38.771 m	2.800 m	2
Arrangement	A1	0.194 m	36.097 m	2.800 m	3
		0.187 m	33.423 m	2.800 m	4
		0.180 m	30.749 m	2.800 m	5
		0.173 m	28.075 m	2.800 m	6
		0.166 m	25.402 m	2.800 m	7
		0.159 m	22.728 m	2.800 m	8
		0.152 m	20.054 m	2.800 m	9
		0.145 m	17.380 m	2.800 m	10
		0.138 m	14.706 m	2.800 m	11
		0.131 m	12.032 m	2.800 m	12

Building 1 · Story 1 · Salla Sportive

**Luminaire layout plan**

X	Y	Mounting height	Luminaire
0.124 m	9.358 m	2.800 m	13
0.117 m	6.685 m	2.800 m	14
0.110 m	4.011 m	2.800 m	15
0.103 m	1.337 m	2.800 m	16

16 x Not yet a DIALux member RAIDEN IP66 8KLM 840 ASYM

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	23.300 m / 1.478 m / 2.800 m	23.300 m	1.478 m	2.800 m	17
X-direction	16 pcs., Center - center, 2.666 m	23.297 m	4.144 m	2.800 m	18
		23.295 m	6.810 m	2.800 m	19
Arrangement	A2	23.292 m	9.476 m	2.800 m	20
		23.290 m	12.142 m	2.800 m	21
		23.287 m	14.808 m	2.800 m	22
		23.284 m	17.474 m	2.800 m	23
		23.282 m	20.140 m	2.800 m	24
		23.279 m	22.805 m	2.800 m	25
		23.277 m	25.471 m	2.800 m	26
		23.274 m	28.137 m	2.800 m	27
		23.272 m	30.803 m	2.800 m	28
		23.269 m	33.469 m	2.800 m	29
		23.266 m	36.135 m	2.800 m	30
		23.264 m	38.801 m	2.800 m	31
		23.261 m	41.467 m	2.800 m	32

Building 1 · Story 1 · Salla Sportive

**Luminaire layout plan**

8 x Not yet a DIALux member RAIDEN IP66 8KLM 840 ASYM

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.692 m / 42.752 m / 2.800 m	1.692 m	42.752 m	2.800 m	33
X-direction	8 pcs., Center - center, 2.852 m	4.544 m	42.752 m	2.800 m	34
Arrangement	A3	7.396 m	42.752 m	2.800 m	35
		10.248 m	42.752 m	2.800 m	36
		13.100 m	42.752 m	2.800 m	37
		15.953 m	42.752 m	2.800 m	38
		18.805 m	42.752 m	2.800 m	39
		21.657 m	42.752 m	2.800 m	40

8 x Not yet a DIALux member RAIDEN IP66 8KLM 840 ASYM

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.547 m / 0.000 m / 2.800 m	1.547 m	0.000 m	2.800 m	41
X-direction	8 pcs., Center - center, 2.895 m	4.442 m	0.000 m	2.800 m	42
Arrangement	A4	7.337 m	0.000 m	2.800 m	43
		10.232 m	0.000 m	2.800 m	44
		13.127 m	0.000 m	2.800 m	45
		16.022 m	0.000 m	2.800 m	46
		18.917 m	0.000 m	2.800 m	47
		21.812 m	0.000 m	2.800 m	48

4 x Not yet a DIALux member RAIDEN IP66 8KLM 840 ASYM

Type	Line arrangement
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Building 1 · Story 1 · Salla Sportive

**Luminaire layout plan**

1st luminaire (X/Y/Z)	10.248 m / 37.290 m / 2.800 m	X	Y	Mounting height	Luminaire
X-direction	4 pcs., Center - center, 10.654 m	10.248 m	37.290 m	2.800 m	49
Arrangement	A5	10.248 m	26.636 m	2.800 m	50
		10.248 m	15.982 m	2.800 m	51
		10.248 m	5.327 m	2.800 m	52

Building 1 · Story 1 · Salla Sportive

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

452400 lm

 $P_{\text{total}}$ 

3484.0 W

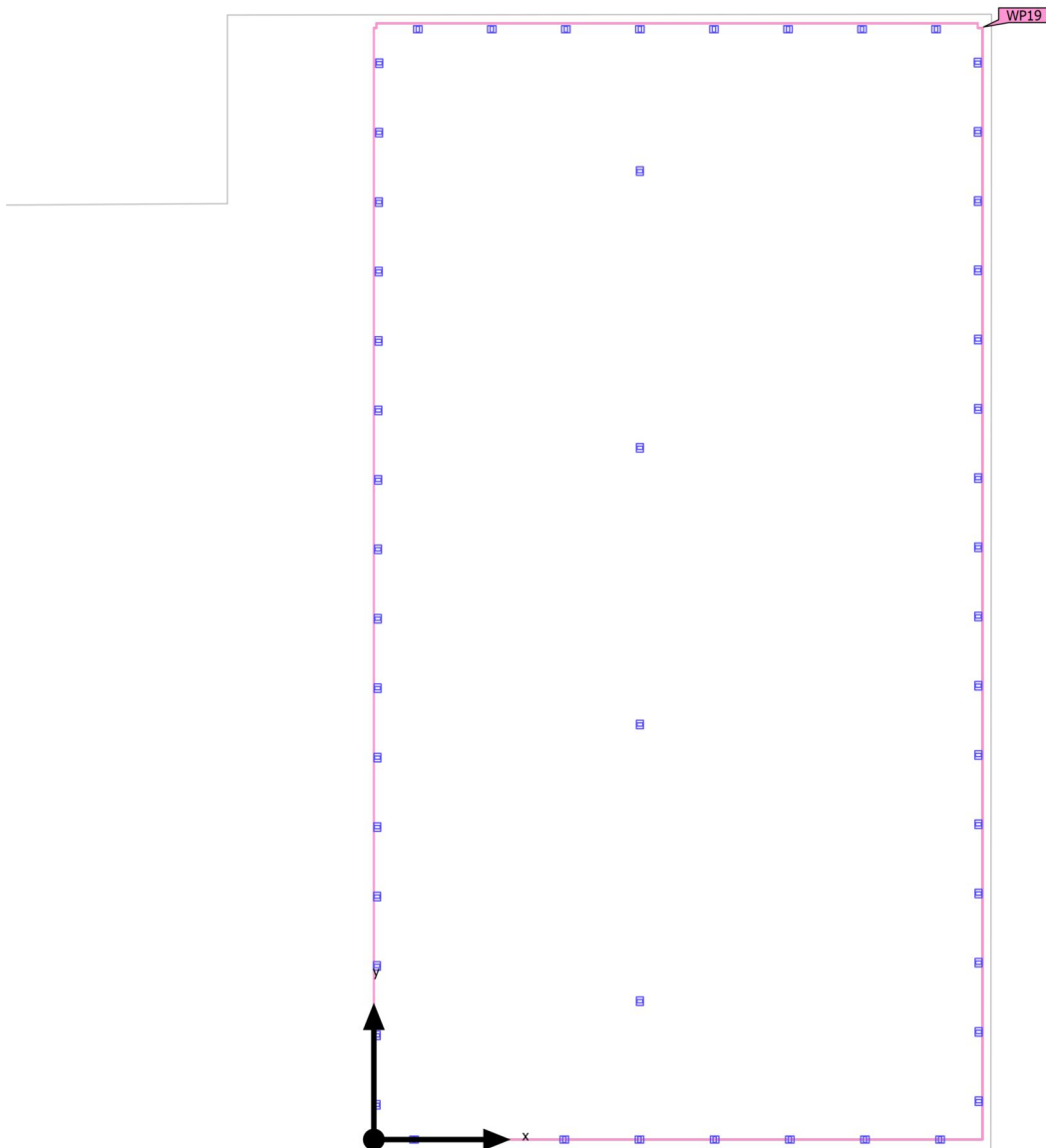
Luminous efficacy

129.9 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
52	Not yet a DIALux member	2824062	RAIDEN IP66 8KLM 840 ASYM	67.0 W	8700 lm	129.9 lm/W

Building 1 · Story 1 · Salla Sportive (Light scene 1)

## Calculation objects



Building 1 · Story 1 · Salla Sportive (Light scene 1)

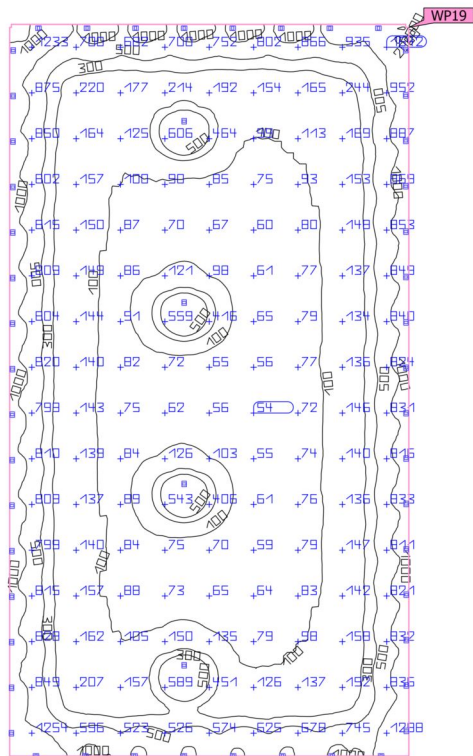
**Calculation objects**

## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Salla Sportive) Perpendicular illuminance (adaptive) Height: 1.000 m, Wall zone: 0.000 m	357 lx ( $\geq 300$ lx) ✓	51.6 lx	2012 lx	0.14	0.026	WP19

Utilization profile: Educational premises - Educational buildings, Sports halls, gymnasiums, swimming pools

Building 1 · Story 1 · Salla Sportive (Light scene 1)  
**Working plane (Salla Sportive)**

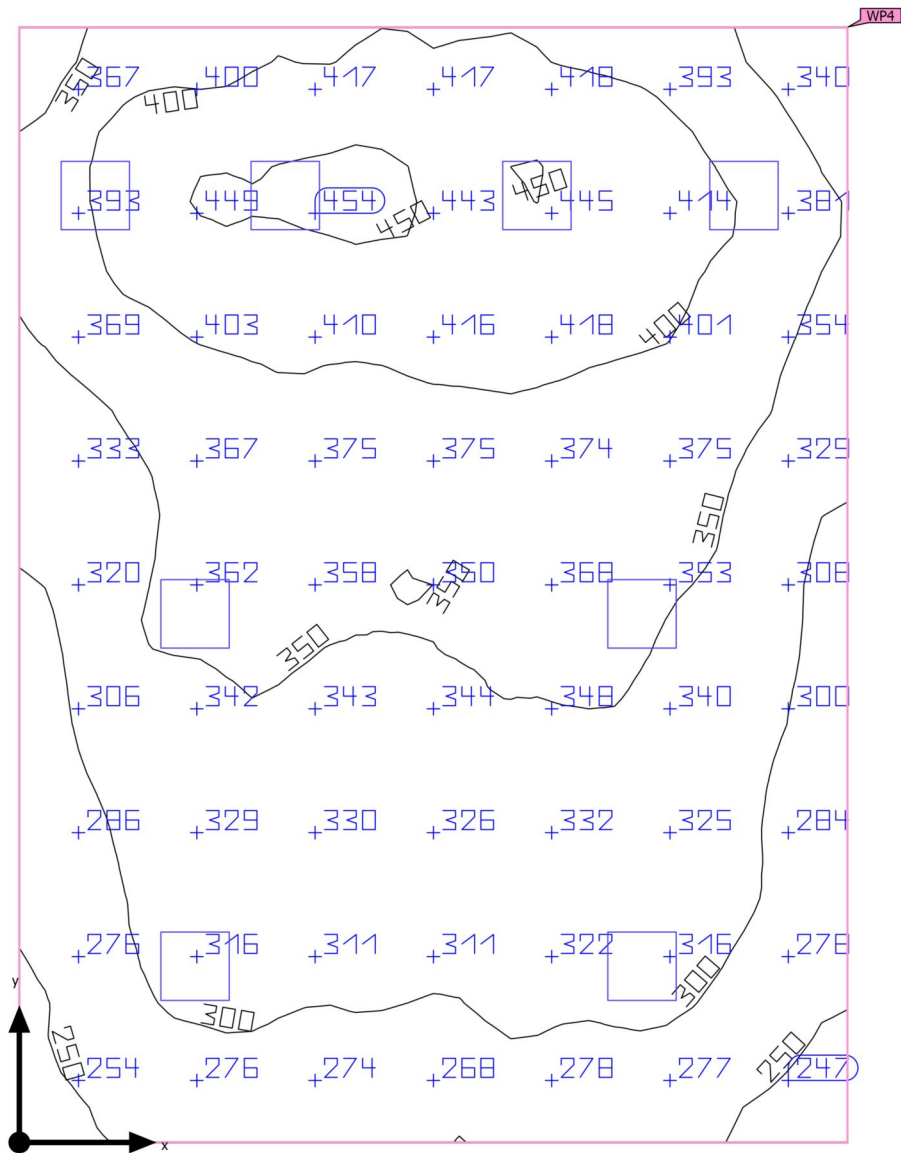


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Salla Sportive)	357 lx	51.6 lx	2012 lx	0.14	0.026	WP19
Perpendicular illuminance (adaptive)	(≥ 300 lx)					
Height: 1.000 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Sports halls, gymnasiums, swimming pools



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

**Summary**

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

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	348 lx	$\geq 200$ lx	✓	WP4
	$g_1$	0.65	-	-	WP4
Consumption values	Consumption	160 kWh/a	max. 900 kWh/a	✓	
Room	Lighting power density	7.44 W/m <sup>2</sup>	-	-	
		2.14 W/m <sup>2</sup> /100 lx	-	-	

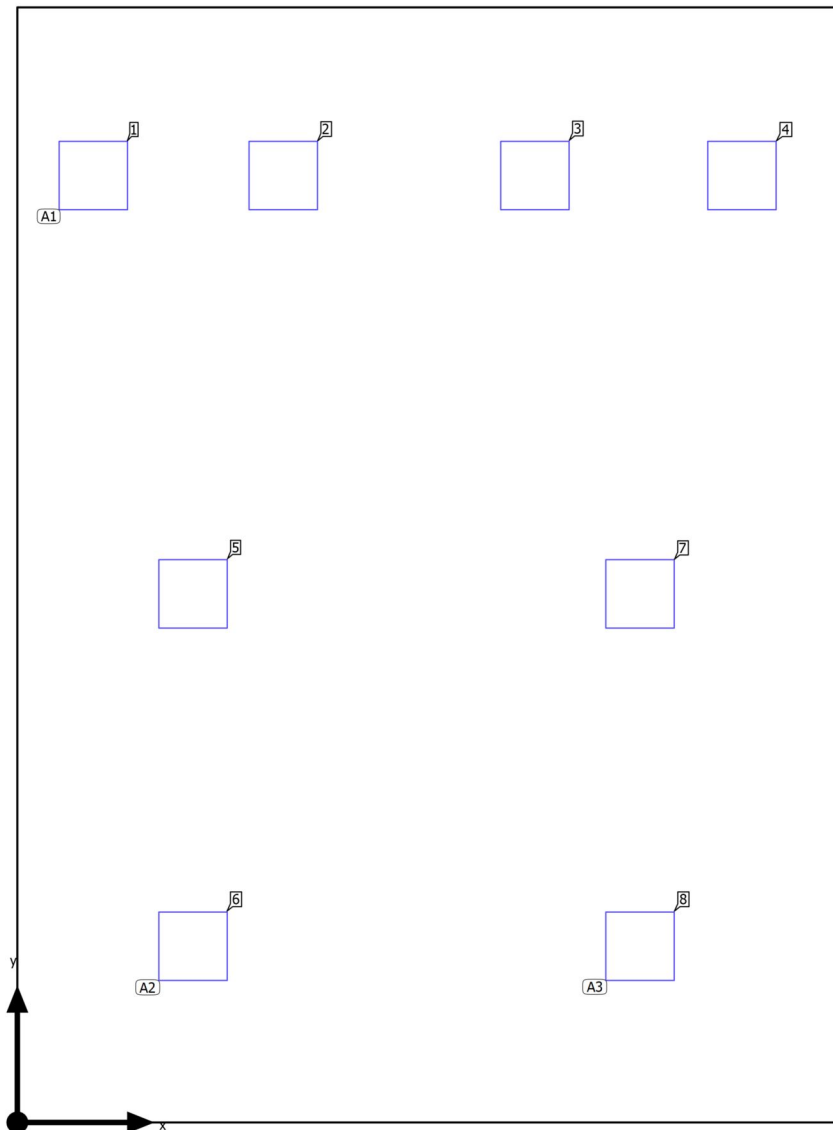
Utilization profile: Health care premises - Wards, maternity wards, Bathrooms and toilets for patients

### Luminaire list

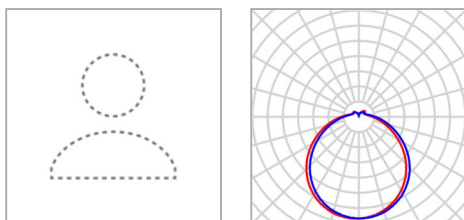
pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
8	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W

Building 1 · Story 1 · Tualet

## Luminaire layout plan



Building 1 · Story 1 · Tualet

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member
Article No.	0043438
Article name	Start eco Surface IP44 PIR 1900lm 840 DualTone
Fitting	1x 0043438

P	23.8 W
$\Phi_{\text{Luminaire}}$	1800 lm

4 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	0.400 m / 4.985 m / 2.800 m	0.400 m	4.985 m	2.800 m	1
X-direction	4 pcs., Center - center, Distances not equal	1.400 m	4.985 m	2.800 m	2
		2.725 m	4.985 m	2.800 m	3
Arrangement	A1	3.815 m	4.985 m	2.800 m	4

2 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	0.925 m / 2.783 m / 2.800 m	0.925 m	2.783 m	2.800 m	5
X-direction	2 pcs., Center - center, 1.855 m	0.925 m	0.928 m	2.800 m	6
Arrangement	A2				

2 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Building 1 · Story 1 · Tualet

**Luminaire layout plan**

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	3.278 m / 2.783 m / 2.800 m	3.278 m	2.783 m	2.800 m	7
X-direction	2 pcs., Center - center, 1.855 m	3.278 m	0.928 m	2.800 m	8
Arrangement	A3				

Building 1 · Story 1 · Tualet

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

14400 lm

 $P_{\text{total}}$ 

190.4 W

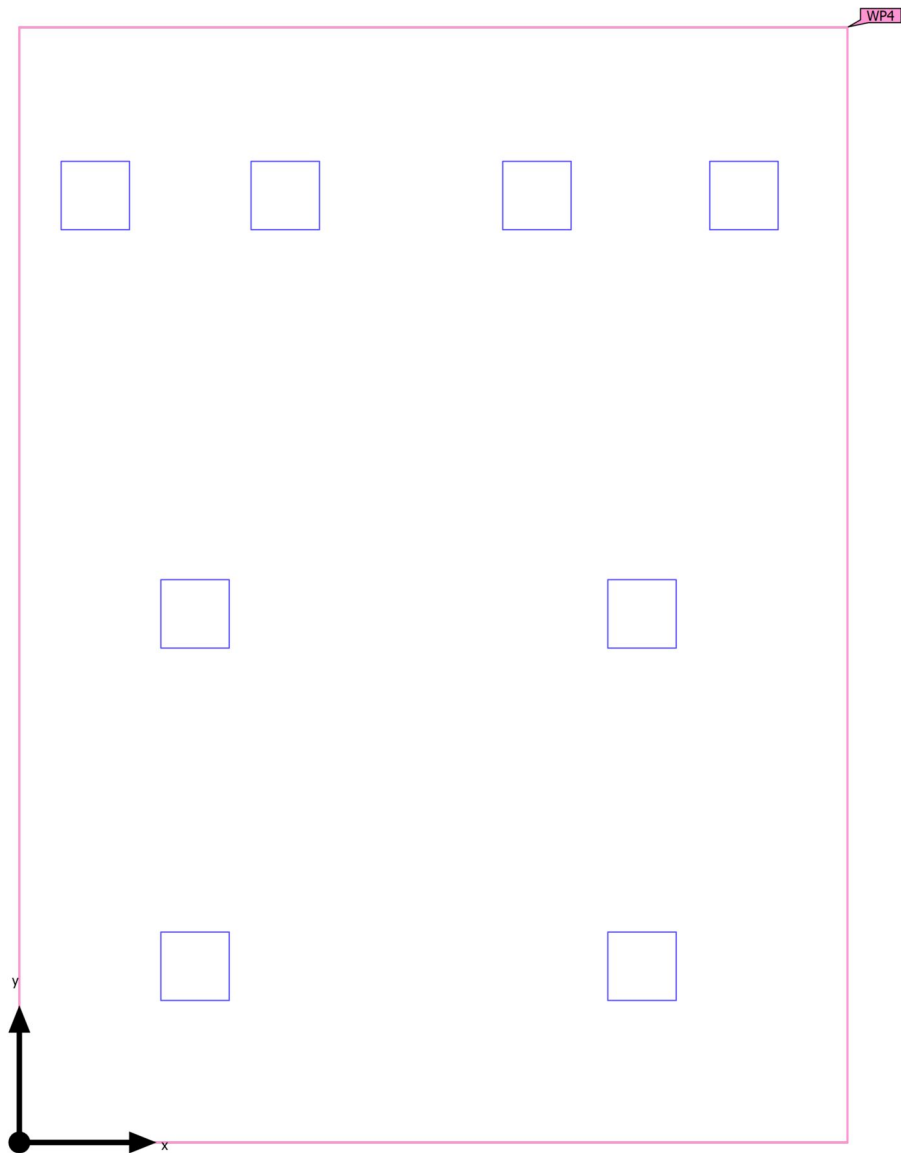
Luminous efficacy

75.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
8	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W

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

## Calculation objects



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

**Calculation objects**

## Working planes

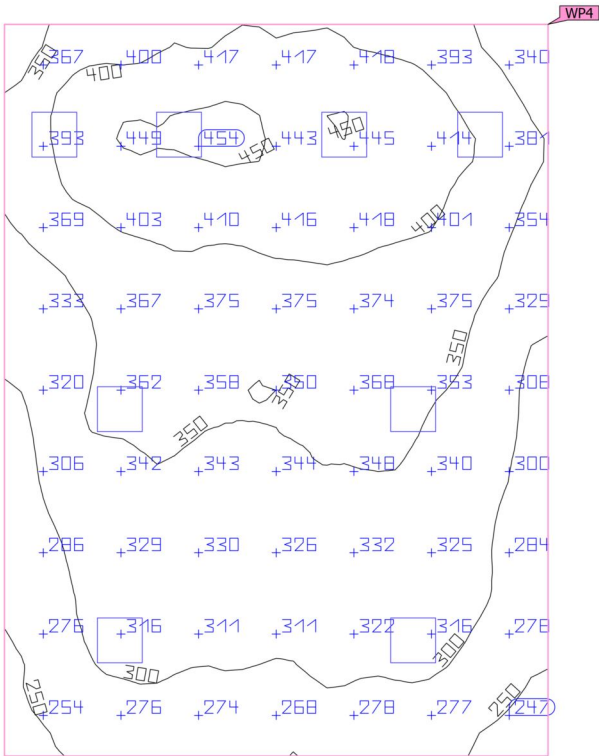
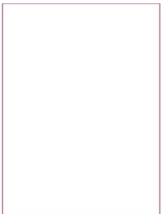
Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Tualet) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	348 lx ( $\geq 200$ lx) ✓	226 lx	457 lx	0.65	0.49	WP4

Utilization profile: Health care premises - Wards, maternity wards, Bathrooms and toilets for patients



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

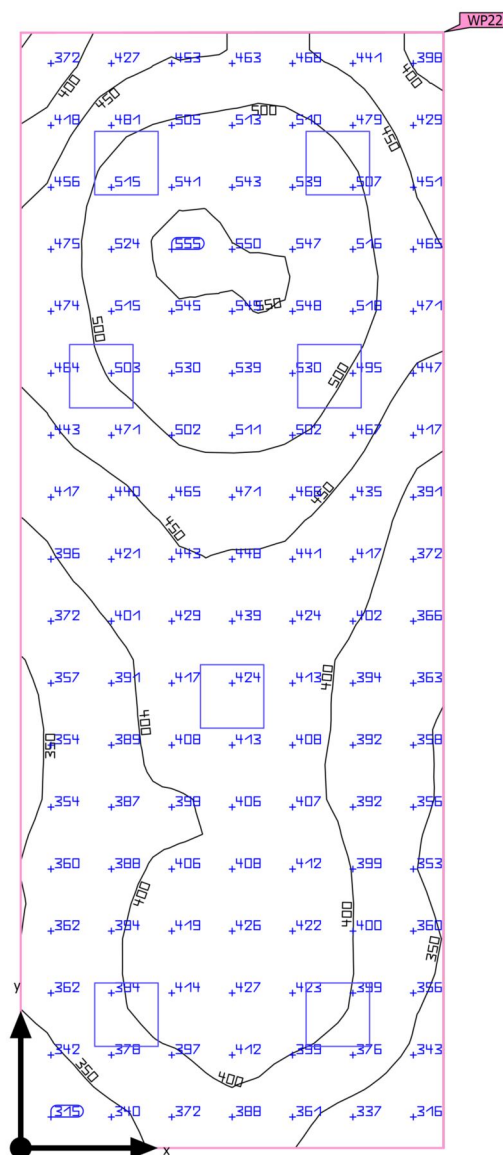
Working plane (Tualet)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Tualet)	348 lx	226 lx	457 lx	0.65	0.49	WP4
Perpendicular illuminance (adaptive)	(≥ 200 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Health care premises - Wards, maternity wards, Bathrooms and toilets for patients

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

**Summary**

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

## Summary

### Results

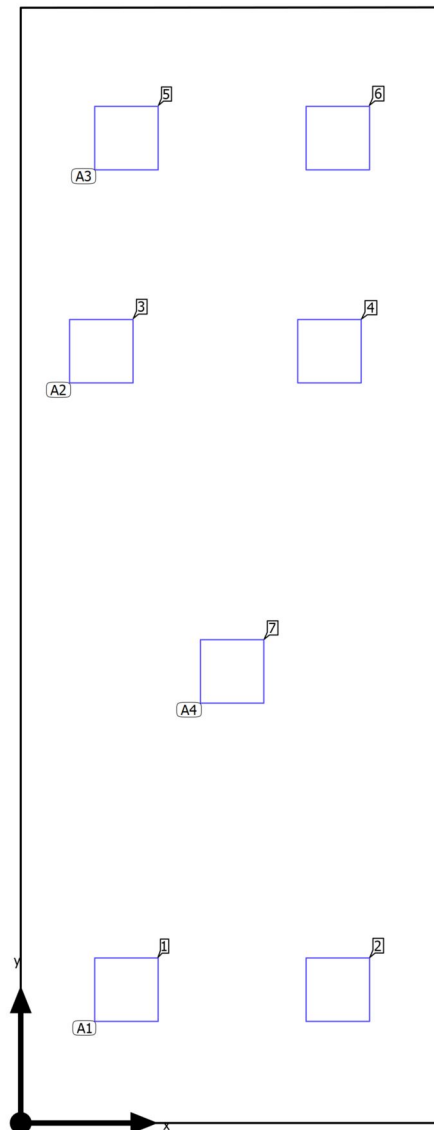
	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	432 lx	$\geq 200$ lx	✓	WP22
	$g_1$	0.70	-	-	WP22
Consumption values	Consumption	140 kWh/a	max. 550 kWh/a	✓	
Room	Lighting power density	10.96 W/m <sup>2</sup>	-	-	
		2.54 W/m <sup>2</sup> /100 lx	-	-	

Utilization profile: Health care premises - Wards, maternity wards, Bathrooms and toilets for patients

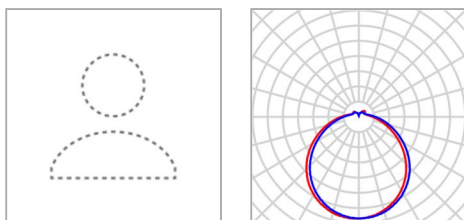
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
7	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W

Building 1 · Story 1 · Tualet  
**Luminaire layout plan**



Building 1 · Story 1 · Tualet

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	23.8 W
Article No.	0043438	$\Phi_{\text{Luminaire}}$	1800 lm
Article name	Start eco Surface IP44 PIR 1900lm 840 DualTone		
Fitting	1x 0043438		

2 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	0.600 m / 0.757 m / 2.800 m	0.600 m	0.757 m	2.800 m	1
X-direction	2 pcs., Center - center, 1.200 m	1.800 m	0.757 m	2.800 m	2
Arrangement	A1				

2 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	0.458 m / 4.380 m / 2.800 m	0.458 m	4.380 m	2.800 m	3
X-direction	2 pcs., Center - center, 1.295 m	1.753 m	4.380 m	2.800 m	4
Arrangement	A2				

2 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Building 1 · Story 1 · Tualet

**Luminaire layout plan**

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	0.600 m / 5.590 m / 2.800 m	0.600 m	5.590 m	2.800 m	5
X-direction	2 pcs., Center - center, 1.200 m	1.800 m	5.590 m	2.800 m	6
Arrangement	A3				

1 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.200 m / 2.563 m / 2.800 m	1.200 m	2.563 m	2.800 m	7
X-direction	1 pcs., Center - center, 2.400 m				
Arrangement	A4				

Building 1 · Story 1 · Tualet

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

12600 lm

 $P_{\text{total}}$ 

166.6 W

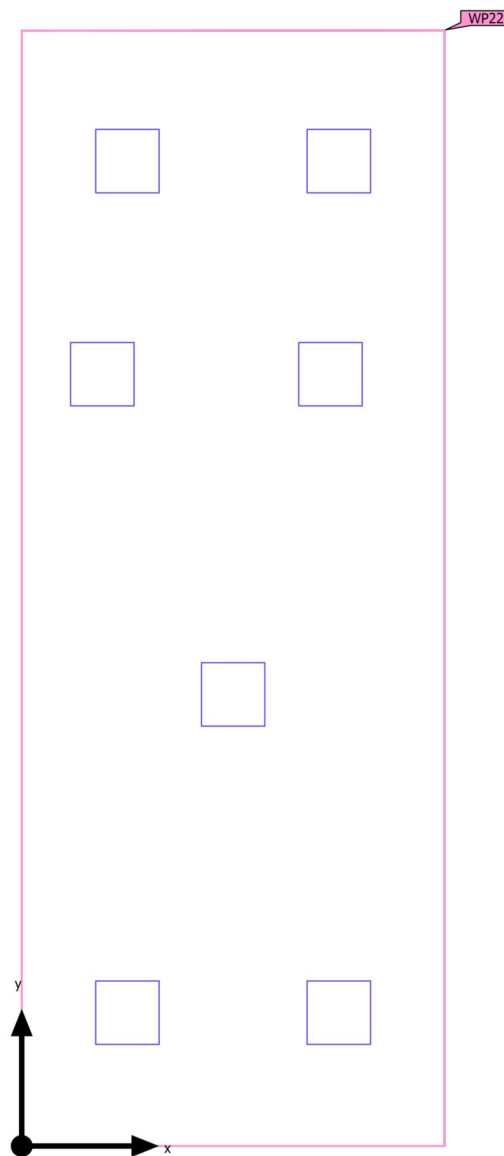
Luminous efficacy

75.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
7	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W

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

## Calculation objects





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

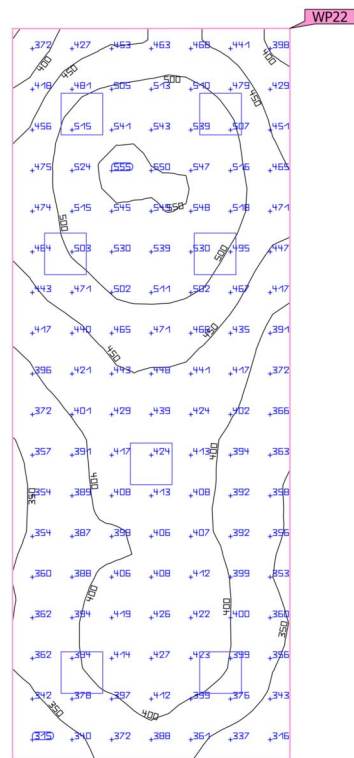
**Calculation objects**

## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Tualet) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	432 lx ( $\geq 200$ lx) ✓	304 lx	555 lx	0.70	0.55	WP22

Utilization profile: Health care premises - Wards, maternity wards, Bathrooms and toilets for patients

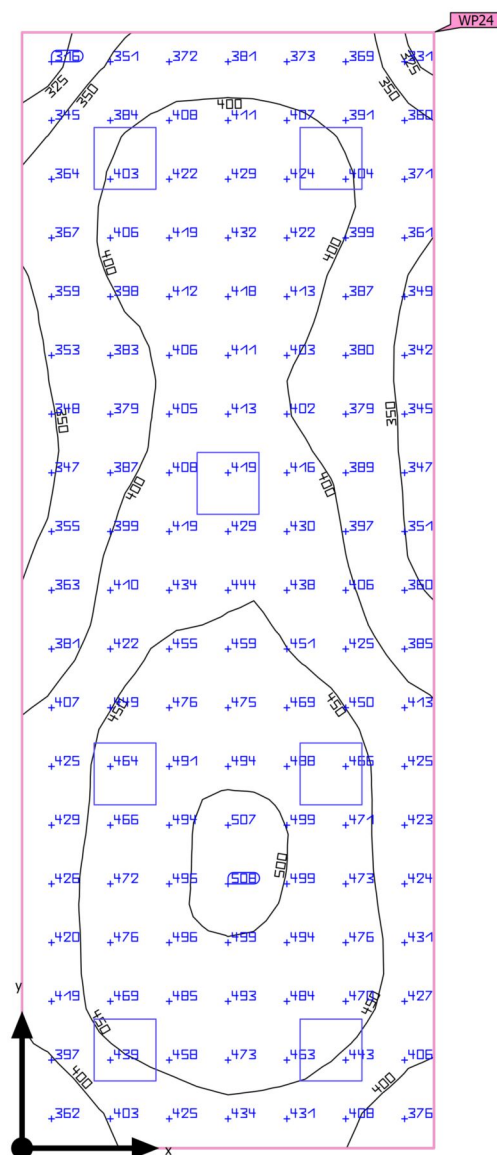
Building 1 · Story 1 · Tualet (Light scene 1)

**Working plane (Tualet)**

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Tualet)	432 lx	304 lx	555 lx	0.70	0.55	WP22
Perpendicular illuminance (adaptive)	( $\geq 200$ lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Health care premises - Wards, maternity wards, Bathrooms and toilets for patients

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

**Summary**

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

## Summary

### Results

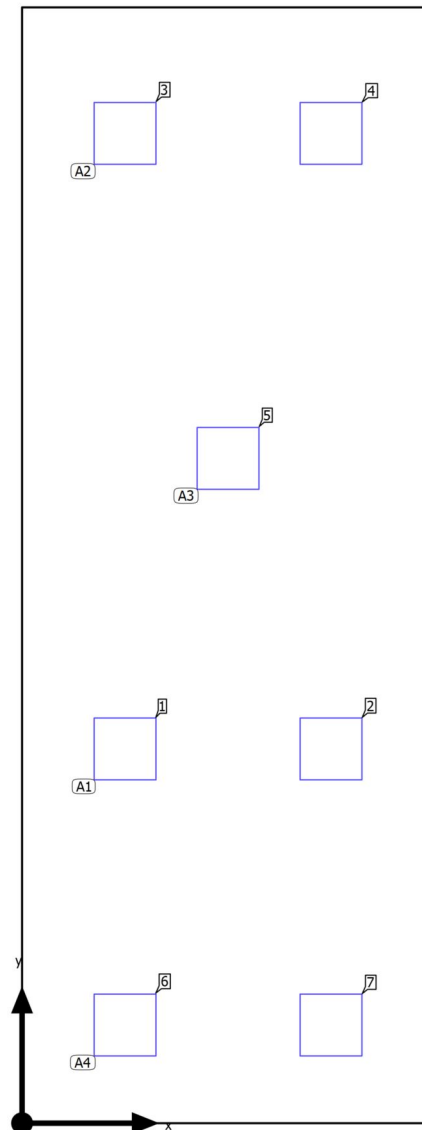
	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	419 lx	$\geq 200$ lx	✓	WP24
	$g_1$	0.73	-	-	WP24
Consumption values	Consumption	140 kWh/a	max. 550 kWh/a	✓	
Room	Lighting power density	10.68 W/m <sup>2</sup>	-	-	
		2.55 W/m <sup>2</sup> /100 lx	-	-	

Utilization profile: Health care premises - Wards, maternity wards, Bathrooms and toilets for patients

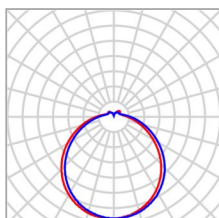
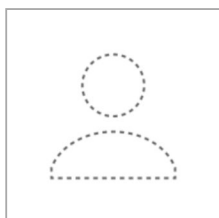
### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
7	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W

Building 1 · Story 1 · Tualet  
**Luminaire layout plan**



Building 1 · Story 1 · Tualet

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member
Article No.	0043438
Article name	Start eco Surface IP44 PIR 1900lm 840 DualTone
Fitting	1x 0043438

P	23.8 W
$\Phi_{\text{Luminaire}}$	1800 lm

2 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	0.600 m / 2.180 m / 2.800 m	0.600 m	2.180 m	2.800 m	1
X-direction	2 pcs., Center - center, 1.200 m	1.800 m	2.180 m	2.800 m	2
Arrangement	A1				

2 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	0.600 m / 5.766 m / 2.800 m	0.600 m	5.766 m	2.800 m	3
X-direction	2 pcs., Center - center, 1.200 m	1.800 m	5.766 m	2.800 m	4
Arrangement	A2				

1 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Building 1 · Story 1 · Tualet

**Luminaire layout plan**

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.200 m / 3.873 m / 2.800 m	1.200 m	3.873 m	2.800 m	5
X-direction	1 pcs., Center - center, 2.400 m				
Arrangement	A3				

2 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	0.600 m / 0.572 m / 2.800 m	0.600 m	0.572 m	2.800 m	6
X-direction	2 pcs., Center - center, 1.200 m	1.800 m	0.572 m	2.800 m	7
Arrangement	A4				

Building 1 · Story 1 · Tualet

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

12600 lm

 $P_{\text{total}}$ 

166.6 W

Luminous efficacy

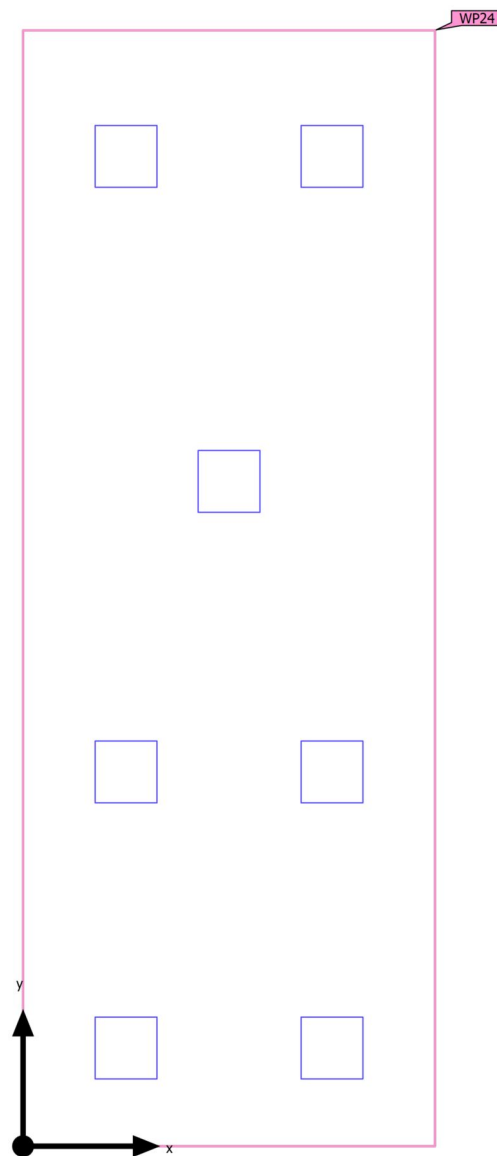
75.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
7	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W



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

## Calculation objects



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

**Calculation objects**

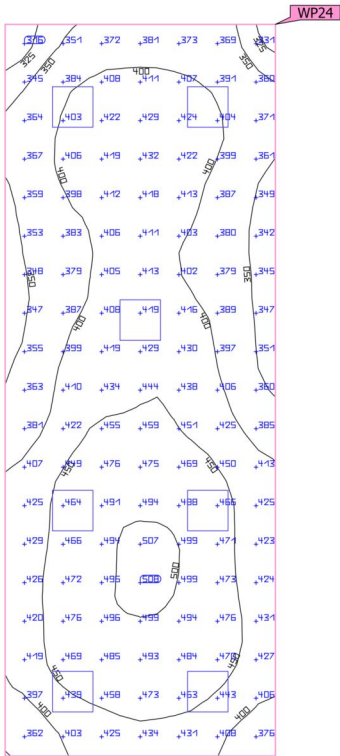
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Tualet) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	419 lx ( $\geq 200$ lx) ✓	305 lx	509 lx	0.73	0.60	WP24

Utilization profile: Health care premises - Wards, maternity wards, Bathrooms and toilets for patients

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

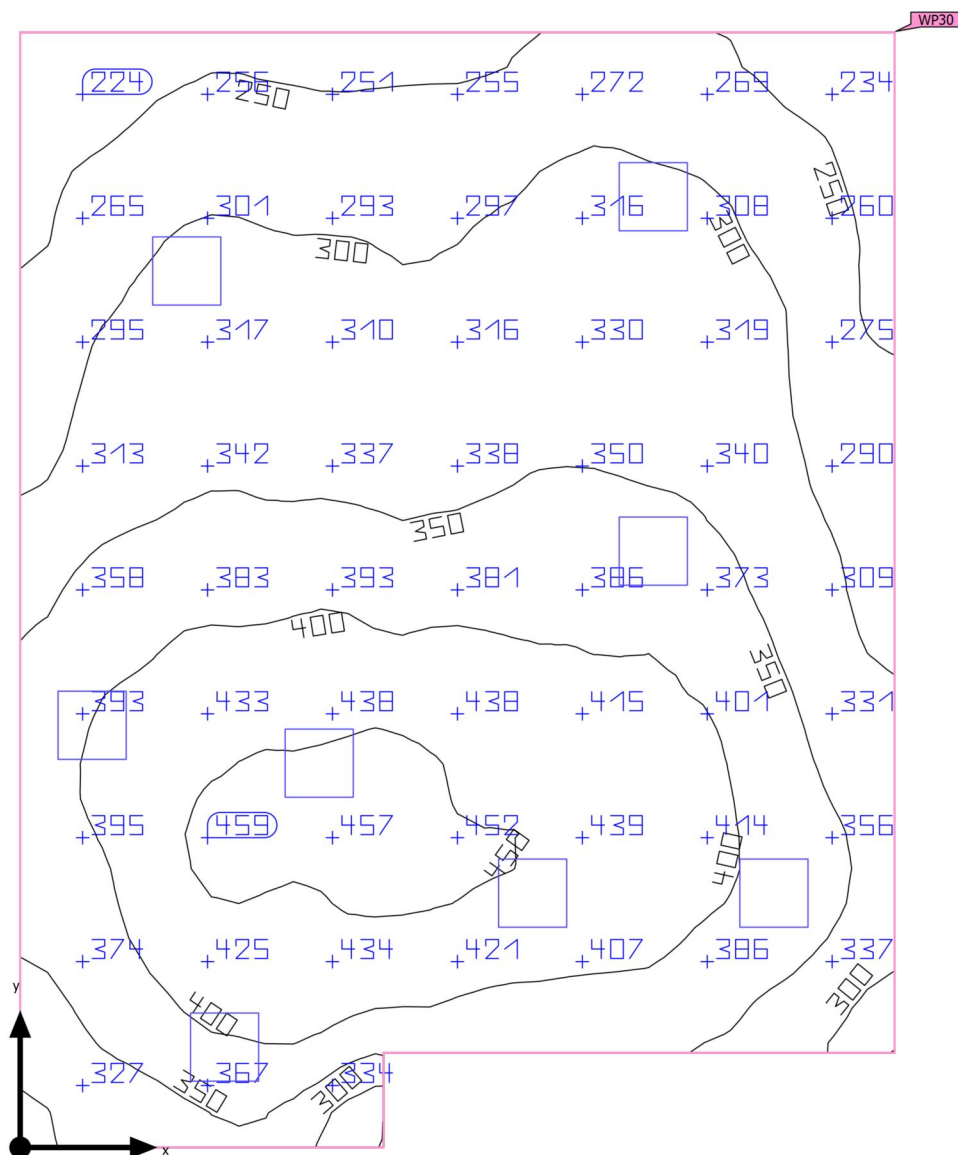
Working plane (Tualet)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Tualet)	419 lx	305 lx	509 lx	0.73	0.60	WP24
Perpendicular illuminance (adaptive)	(≥ 200 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Health care premises - Wards, maternity wards, Bathrooms and toilets for patients

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

**Summary**

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

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	346 lx	$\geq 200$ lx	✓	WP30
	$g_1$	0.59	-	-	WP30
Consumption values	Consumption	160 kWh/a	max. 950 kWh/a	✓	
Room	Lighting power density	7.36 W/m <sup>2</sup>	-	-	
		2.13 W/m <sup>2</sup> /100 lx	-	-	

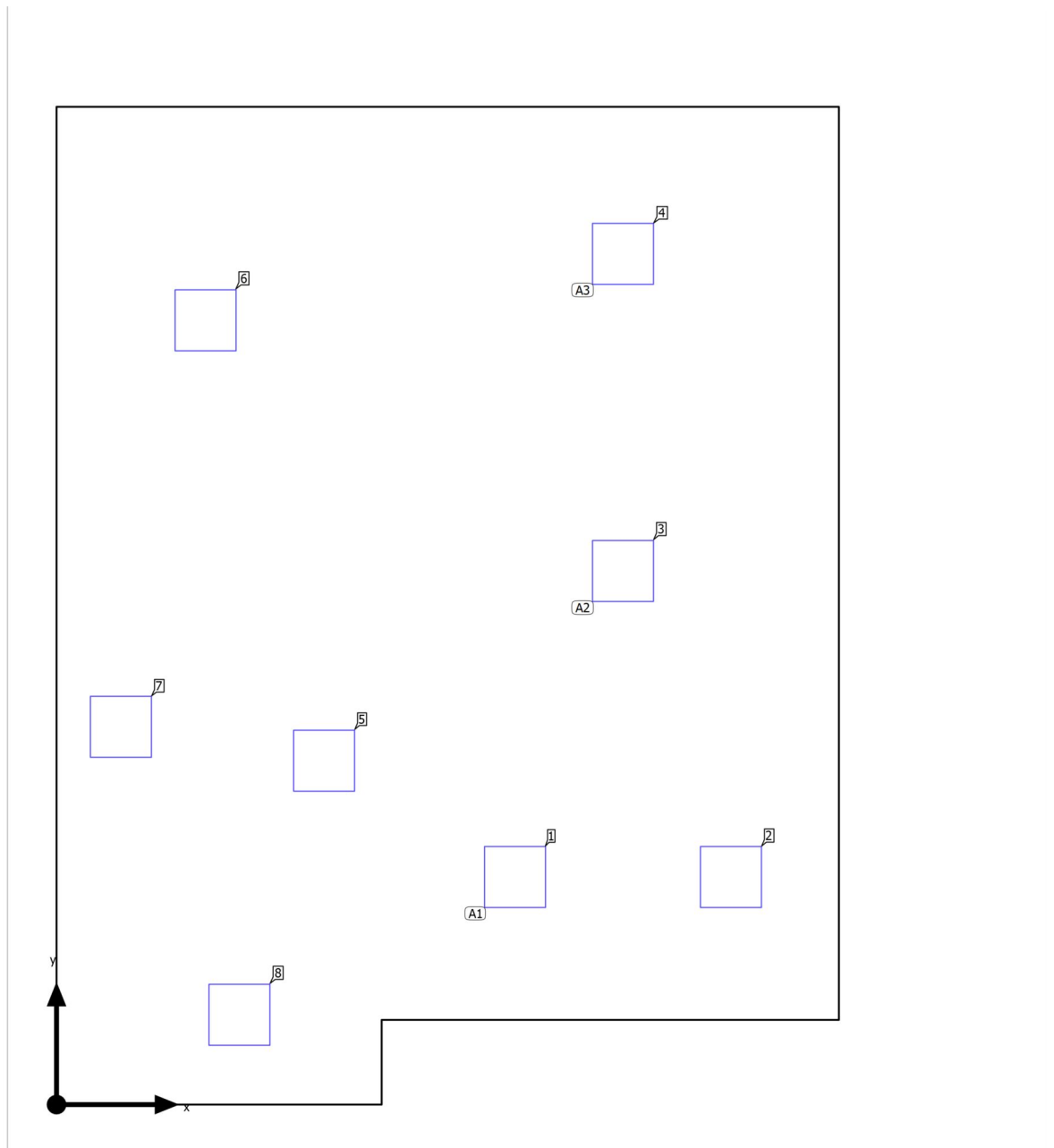
Utilization profile: Health care premises - Wards, maternity wards, Bathrooms and toilets for patients

### Luminaire list

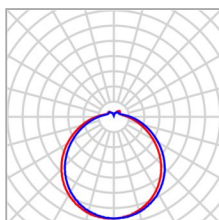
pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
8	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W

Building 1 · Story 1 · Tualet

## Luminaire layout plan



Building 1 · Story 1 · Tualet

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member
Article No.	0043438
Article name	Start eco Surface IP44 PIR 1900lm 840 DualTone
Fitting	1x 0043438

P	23.8 W
$\Phi_{\text{Luminaire}}$	1800 lm

2 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	2.707 m / 1.344 m / 2.800 m	2.707 m	1.344 m	2.800 m	1
X-direction	2 pcs., Center - center, 1.275 m	3.982 m	1.344 m	2.800 m	2
Arrangement	A1				

1 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	3.345 m / 3.150 m / 2.800 m	3.345 m	3.150 m	2.800 m	3
X-direction	1 pcs., Center - center, 2.550 m				
Arrangement	A2				

1 x Not yet a DIALux member Start eco Surface IP44 PIR 1900lm 840 DualTone

Building 1 · Story 1 · Tualet

**Luminaire layout plan**

Type	Line arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	3.345 m / 5.023 m / 2.800 m	3.345 m	5.023 m	2.800 m	4
X-direction	1 pcs., Center - center, 2.550 m				
Arrangement	A3				

## Individual luminaires

X	Y	Mounting height	Luminaire
1.580 m	2.030 m	2.800 m	5
0.880 m	4.630 m	2.800 m	6
0.380 m	2.230 m	2.800 m	7
1.080 m	0.530 m	2.800 m	8



Building 1 · Story 1 · Tualet

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

14400 lm

 $P_{\text{total}}$ 

190.4 W

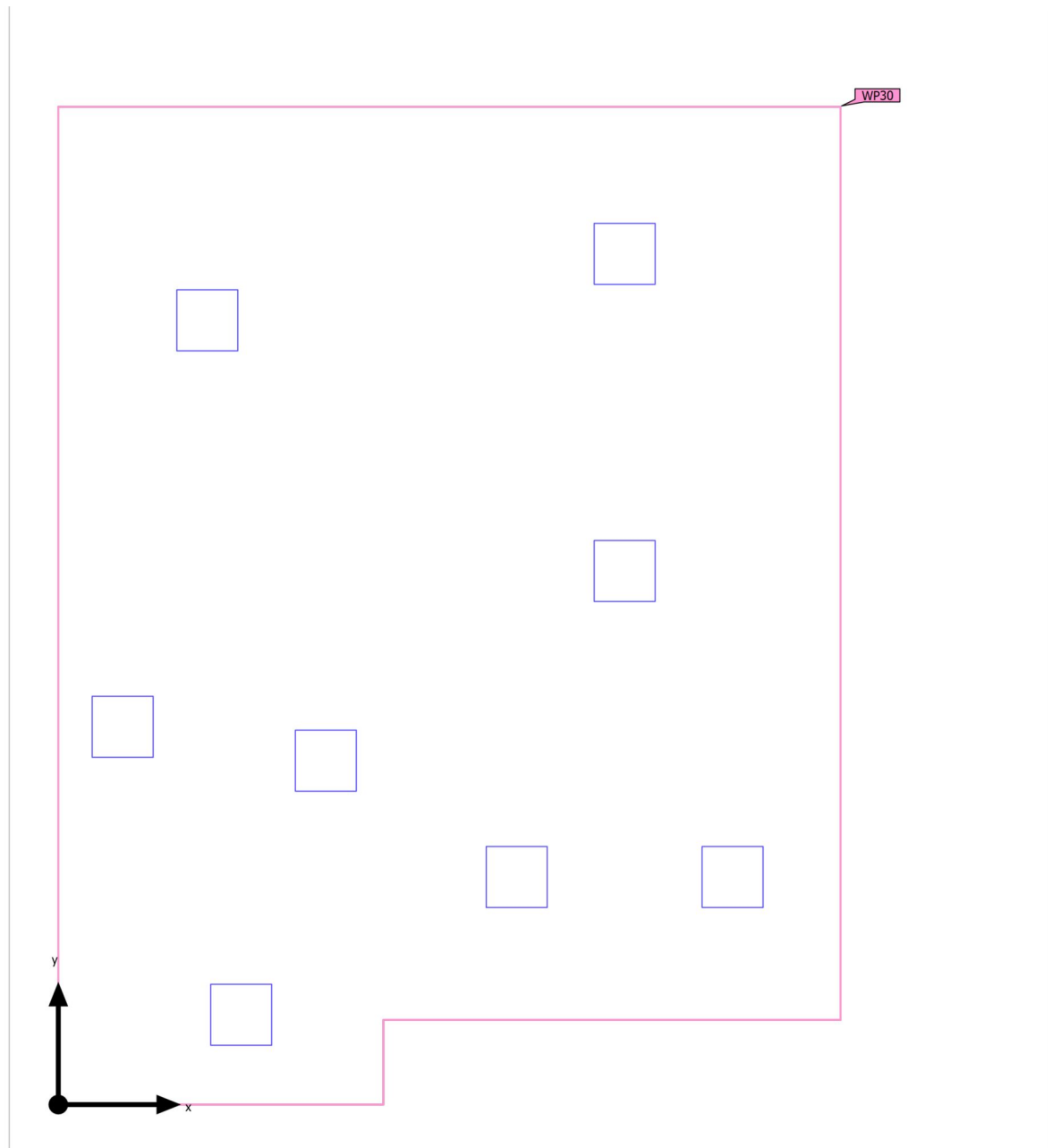
Luminous efficacy

75.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
8	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W

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

## Calculation objects



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

**Calculation objects**

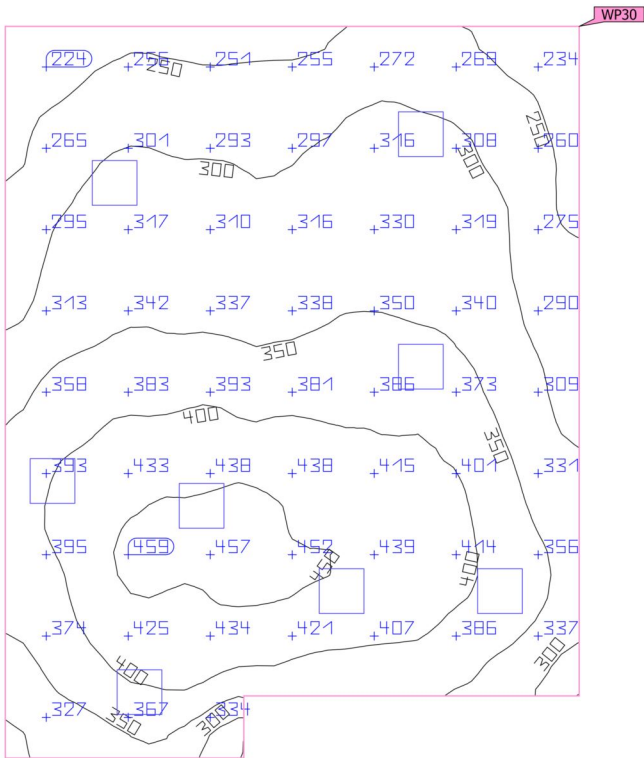
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Tualet) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	346 lx ( $\geq 200$ lx) ✓	204 lx	462 lx	0.59	0.44	WP30

Utilization profile: Health care premises - Wards, maternity wards, Bathrooms and toilets for patients

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

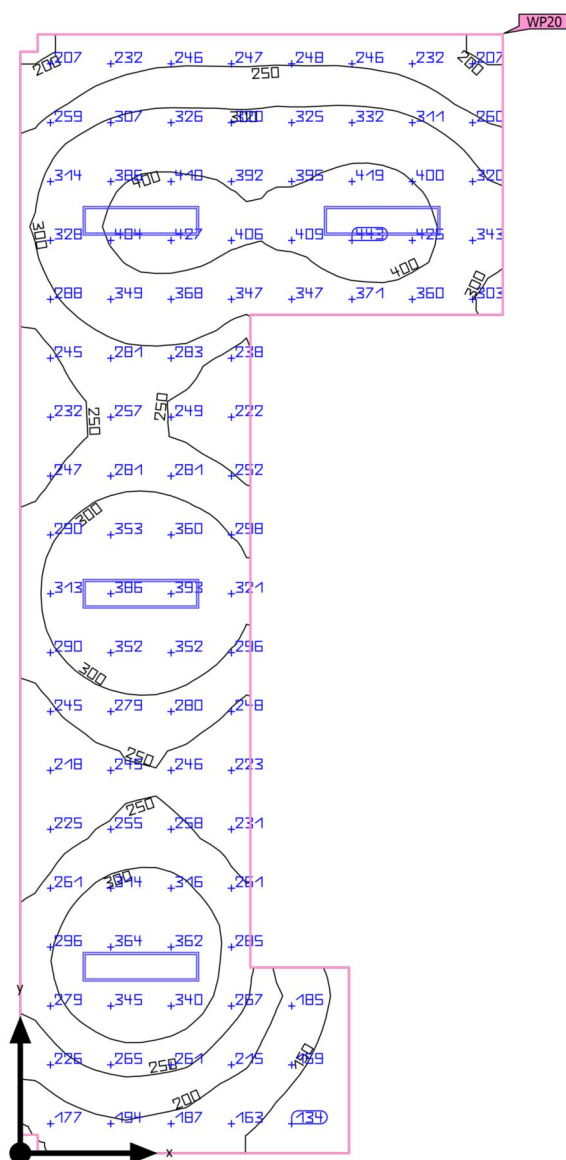
Working plane (Tualet)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Tualet)	346 lx	204 lx	462 lx	0.59	0.44	WP30
Perpendicular illuminance (adaptive)	( $\geq 200$ lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Health care premises - Wards, maternity wards, Bathrooms and toilets for patients

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

**Summary**

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

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	292 lx	$\geq 200$ lx	✓	WP20
	$g_1$	0.41	-	-	WP20
Consumption values	Consumption	260 kWh/a	max. 1300 kWh/a	✓	
Room	Lighting power density	3.68 W/m <sup>2</sup>	-	-	
		1.26 W/m <sup>2</sup> /100 lx	-	-	

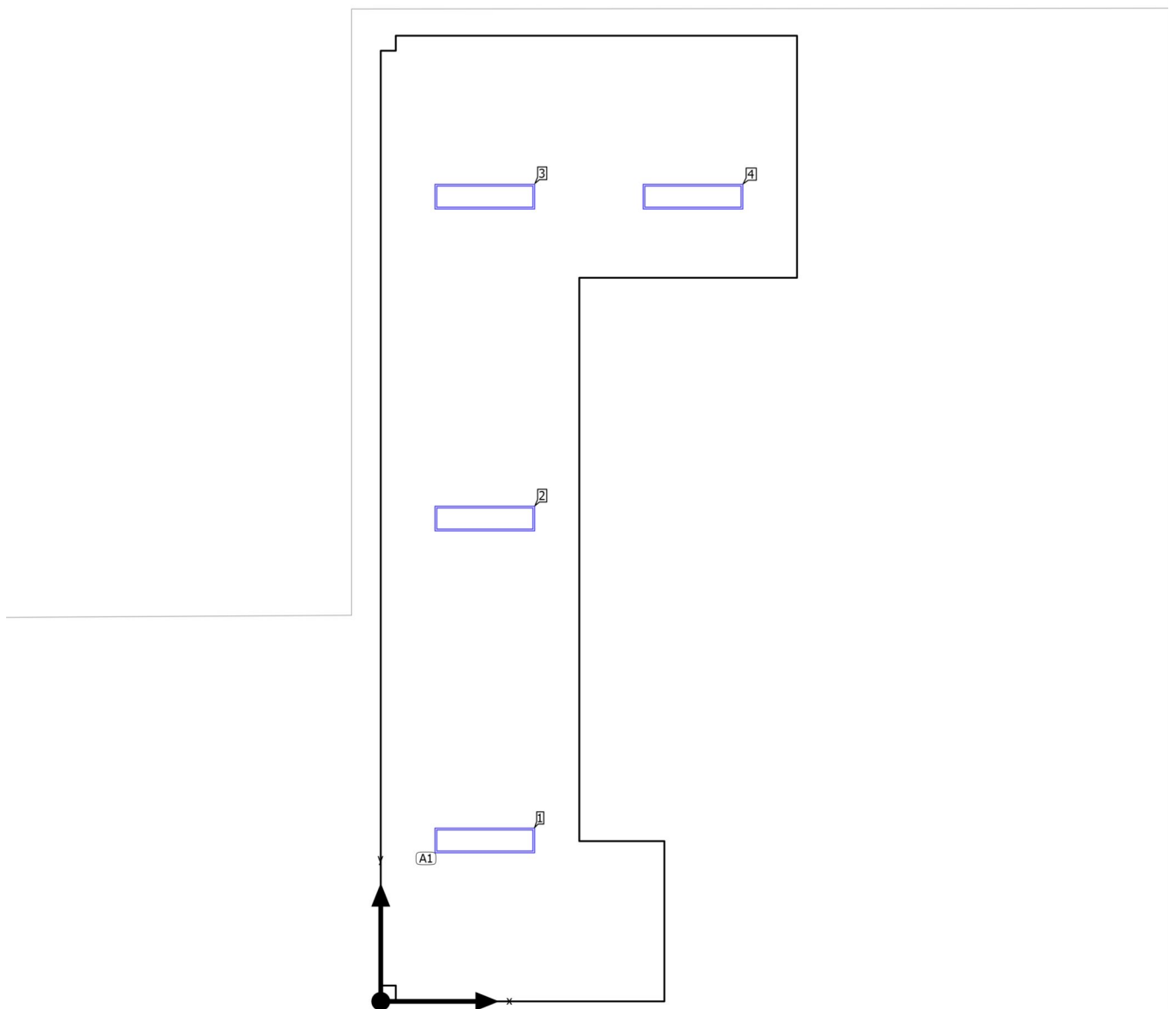
Utilization profile: Educational premises - Educational buildings, Student common rooms and assembly halls

### Luminaire list

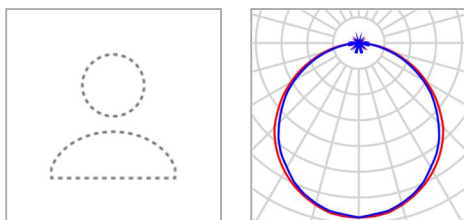
pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Zhveshtore

## Luminaire layout plan



Building 1 · Story 1 · Zhveshtore

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

4 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.248 m / 1.928 m / 2.800 m	1.248 m	1.928 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.495 m	1.248 m	5.785 m	2.800 m	2
Y-direction	3 pcs., Center - center, 3.857 m	1.248 m	9.642 m	2.800 m	3
		3.743 m	9.642 m	2.800 m	4
Arrangement	A1				



Building 1 · Story 1 · Zhveshtore

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

15720 lm

 $P_{\text{total}}$ 

136.0 W

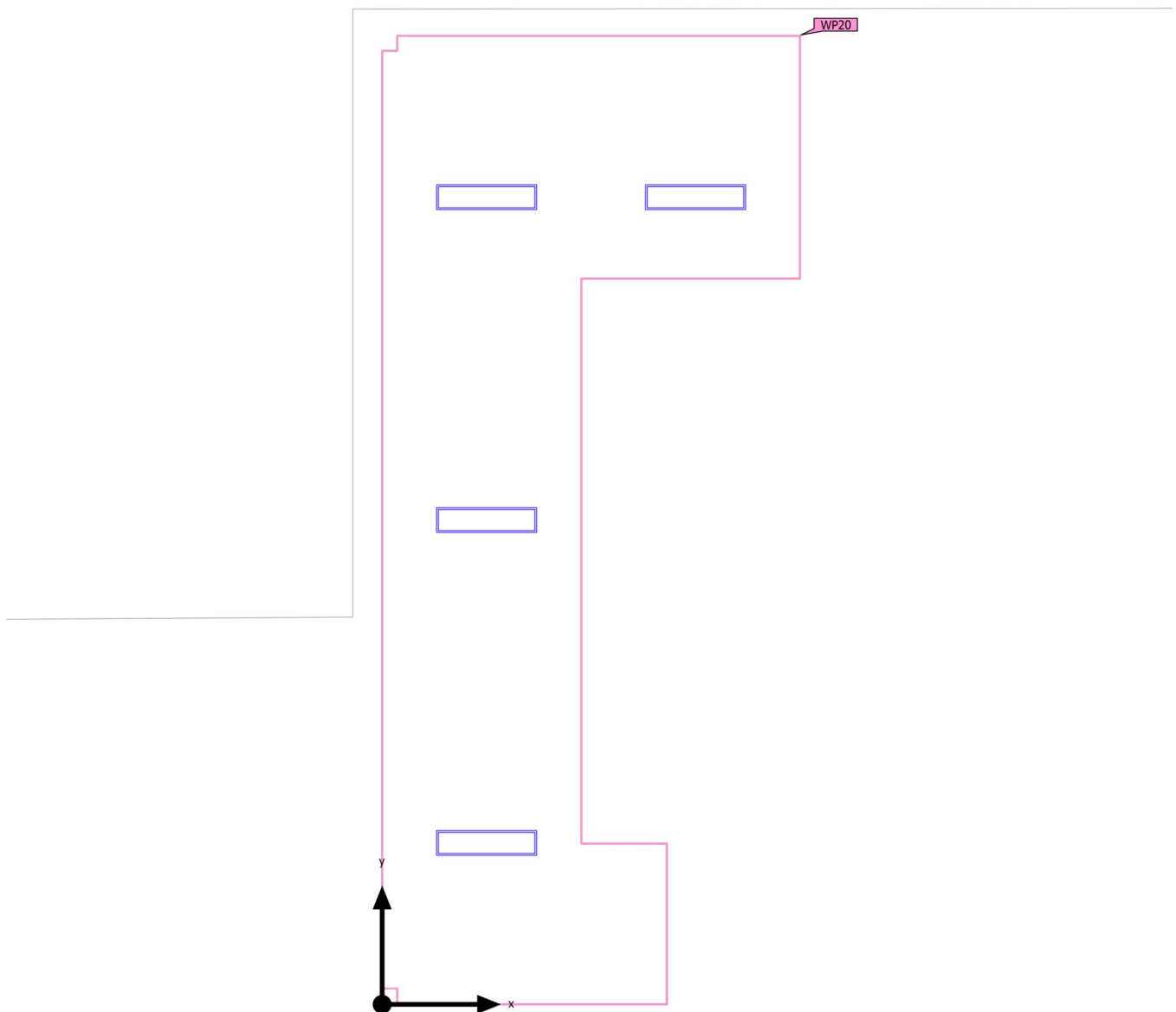
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

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

## Calculation objects



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

**Calculation objects**

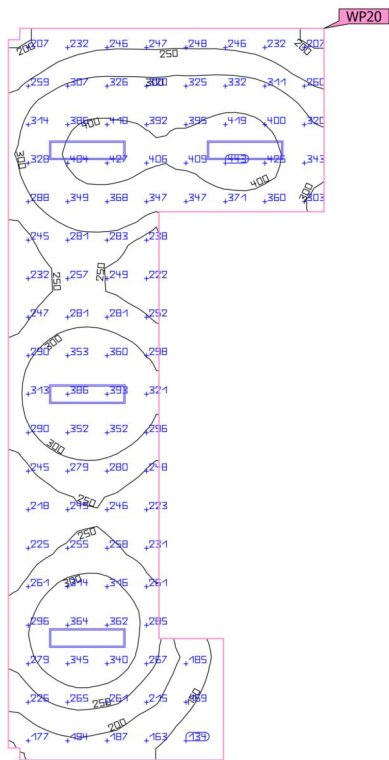
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Zhveshtore) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	292 lx ( $\geq 200$ lx) ✓	121 lx	446 lx	0.41	0.27	WP20

Utilization profile: Educational premises - Educational buildings, Student common rooms and assembly halls

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

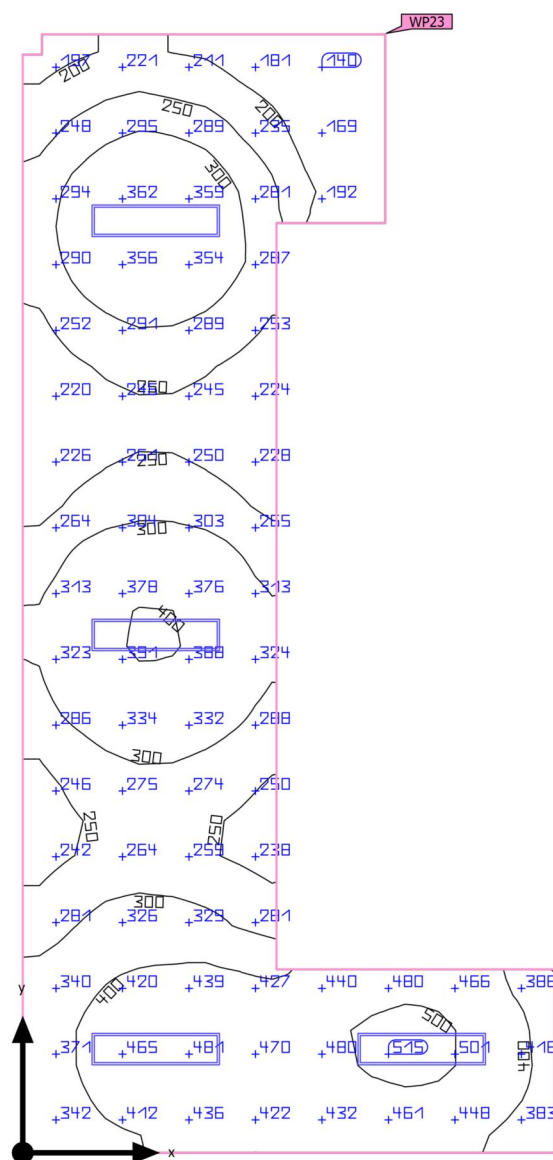
Working plane (Zhveshtore)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Zhveshtore)	292 lx	121 lx	446 lx	0.41	0.27	WP20
Perpendicular illuminance (adaptive)	(≥ 200 lx)					
Height: 0.800 m, Wall zone: 0.000 m	✓					

Utilization profile: Educational premises - Educational buildings, Student common rooms and assembly halls

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

**Summary**

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

## Summary

### Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	320 lx	$\geq 200$ lx	✓	WP23
	$g_1$	0.40	-	-	WP23
Consumption values	Consumption	260 kWh/a	max. 1100 kWh/a	✓	
Room	Lighting power density	4.36 W/m <sup>2</sup>	-	-	
		1.36 W/m <sup>2</sup> /100 lx	-	-	

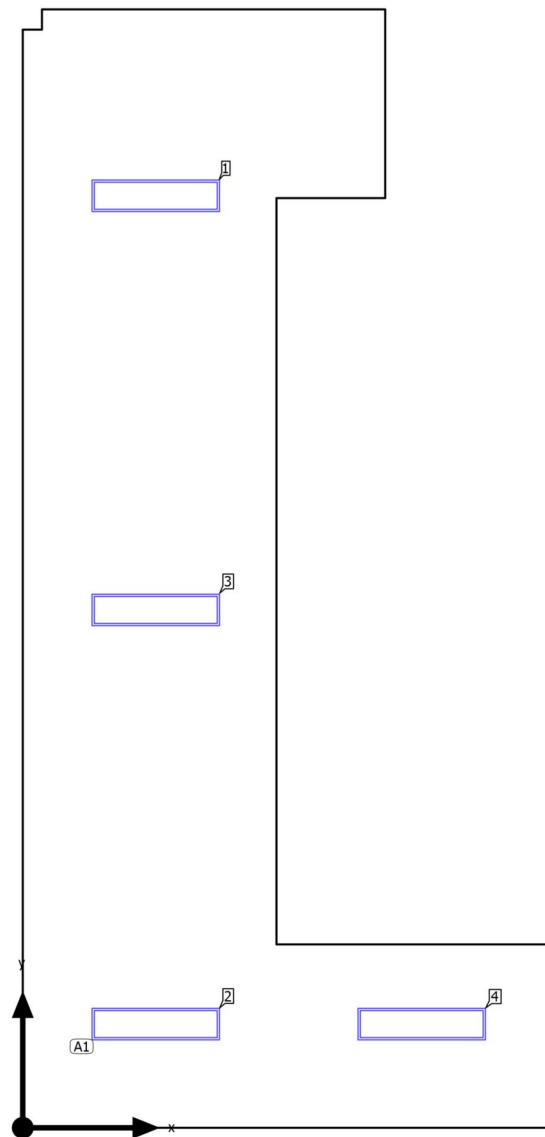
Utilization profile: Educational premises - Educational buildings, Student common rooms and assembly halls

### Luminaire list

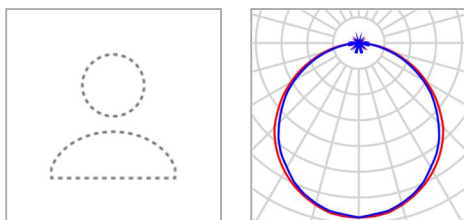
pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

Building 1 · Story 1 · Zhveshtore

## Luminaire layout plan



Building 1 · Story 1 · Zhveshtore

**Luminaire layout plan**

Manufacturer	Not yet a DIALux member	P	34.0 W
Article No.	0042879	$\Phi_{\text{Luminaire}}$	3930 lm
Article name	START Panel 1200x300 HE 4100Lm 840 LILO		
Fitting	1x LED		

4 x Not yet a DIALux member START Panel 1200x300 HE 4100Lm 840 LILO

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.248 m / 8.742 m / 2.800 m	1.248 m	8.742 m	2.800 m	1
X-direction	2 pcs., Center - center, Distances not equal	1.248 m	0.972 m	2.800 m	2
		1.248 m	4.857 m	2.800 m	3
Y-direction	3 pcs., Center - center, Distances not equal	3.743 m	0.972 m	2.800 m	4
Arrangement	A1				



Building 1 · Story 1 · Zhveshtore

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

15720 lm

 $P_{\text{total}}$ 

136.0 W

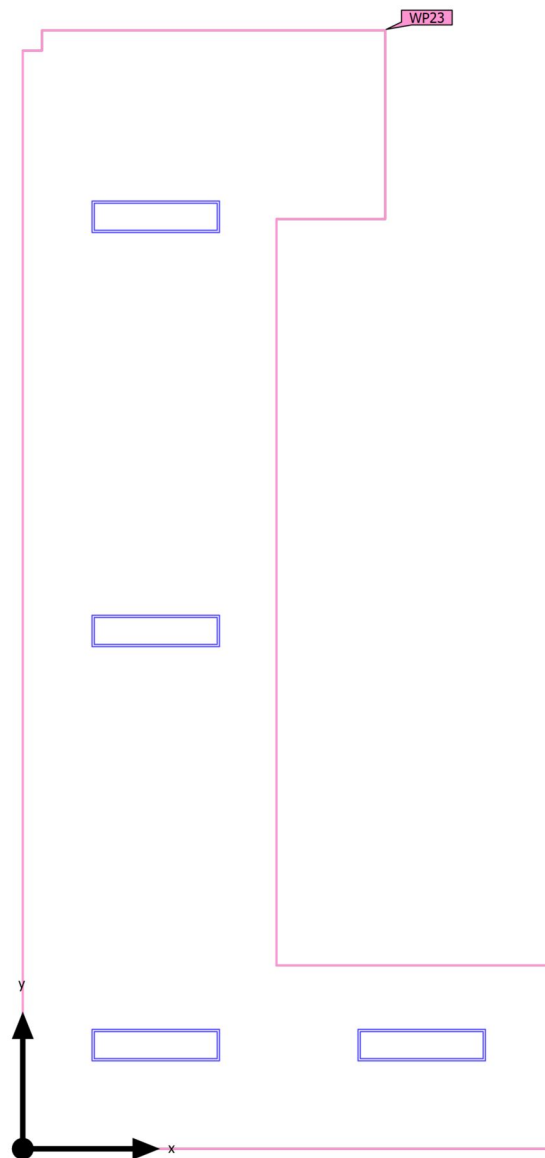
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	$\Phi$	Luminous efficacy
4	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W

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

## Calculation objects



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

**Calculation objects**

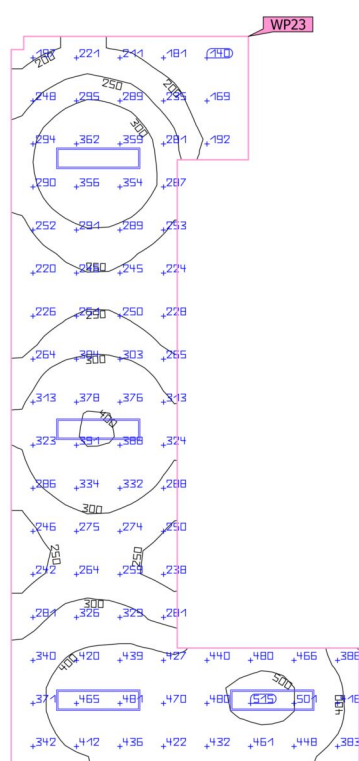
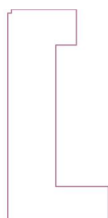
## Working planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Zhveshtore) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	320 lx ( $\geq 200$ lx) ✓	127 lx	519 lx	0.40	0.24	WP23

Utilization profile: Educational premises - Educational buildings, Student common rooms and assembly halls

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

### Working plane (Zhveshtore)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Working plane (Zhveshtore) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	320 lx (≥ 200 lx) ✓	127 lx	519 lx	0.40	0.24	WP23

Utilization profile: Educational premises - Educational buildings, Student common rooms and assembly halls

## 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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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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### D

Daylight factor	<p>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.</p> <p>Formula symbol: D (daylight factor)  Unit: %</p>
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## Glossary

Daylight quotient effective area	A calculation surface within which the daylight quotient is calculated.
<b>E</b>	
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>
<b>G</b>	
$g_1$	<p>Often also <math>U_o</math> (overall uniformity)</p> <p>Designates the overall uniformity of the illuminance on a surface. It is the quotient from <math>E_{min}</math> to <math>\bar{E}</math> and is required, for instance, in standards for illumination of workstations.</p>
$g_2$	<p>Actually it designates the "non-uniformity" of the illuminance on a surface. It is the quotient of <math>E_{min}</math> to <math>E_{max}</math> and is generally only relevant for certifying the emergency lighting acc. to EN 1838.</p>
<b>I</b>	
Illuminance	<p>Describes the ratio of the luminous flux that strikes a certain surface to the size of this surface (<math>lm/m^2 = lx</math>). 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.</p> <p>Unit: Lux</p> <p>Abbreviation: lx</p> <p>Formula symbol: E</p>
Illuminance, adaptive	For the determining of the middle adaptive illuminance on a surface, this is rastered "adaptively". In the area of large illuminance differences within the surface, the raster is subdivided finer; within lesser differences, a rougher classification is made.
Illuminance, horizontal	Illuminance that is calculated or measured on a horizontal (level) surface (this can be for example a table top or the floor). The horizontal illuminance is usually identified by the formula letter $E_h$ .
Illuminance, perpendicular	Illuminance that is calculated or measured plumb-vertical to a surface. This needs to be taken into account for tilted surfaces. If the surface is horizontal or vertical, then there is no difference between the perpendicular and the horizontal or vertical illuminance.

## Glossary

Illuminance, vertical	<p>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 <math>E_v</math>.</p>
<hr/>	
L	
LENI	<p>(lighting energy numeric indicator) Lighting energy numeric indicator acc. to EN 15193</p> <p>Unit: kWh/m<sup>2</sup> year</p>
Light loss factor	See MF
LLMF	<p>(lamp lumen maintenance factor)/acc. to CIE 97: 2005 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 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 Lamp survival factor that takes the total failure into account of a luminaire in the course of the operating time. The lamp survival factor is specified as a decimal digit and can have a maximum value of 1 (no failures existing within the time concerned or prompt replacement after the failure).</p>
Luminance	<p>Dimension for the "brightness impression" that the human eye has of a surface. The surface itself can emit light thereby or light striking it can be reflected (emitter value). It is the only photometric value that the human eye can perceive.</p> <p>Unit: Candela per square meter Abbreviation: cd/m<sup>2</sup> 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: lm/W.</p> <p>This ratio can be formed for the lamp or LED module (lamp or module light output), the lamp or module with control gear (system light output) and the complete luminaire (luminaire light output).</p>

## Glossary

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>
M	
MF	<p>(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 <math>RMF \times LMF \times LLMF \times LSF</math>.</p>
P	
P	<p>(power) Electric power consumption</p> <p>Unit: watt Abbreviation: W</p>
R	
Reflection factor	<p>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.</p>



## Glossary

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.
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.
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.