

Llogaritjet Fotometrike_Shkolla Isa Boletini

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

Zyre

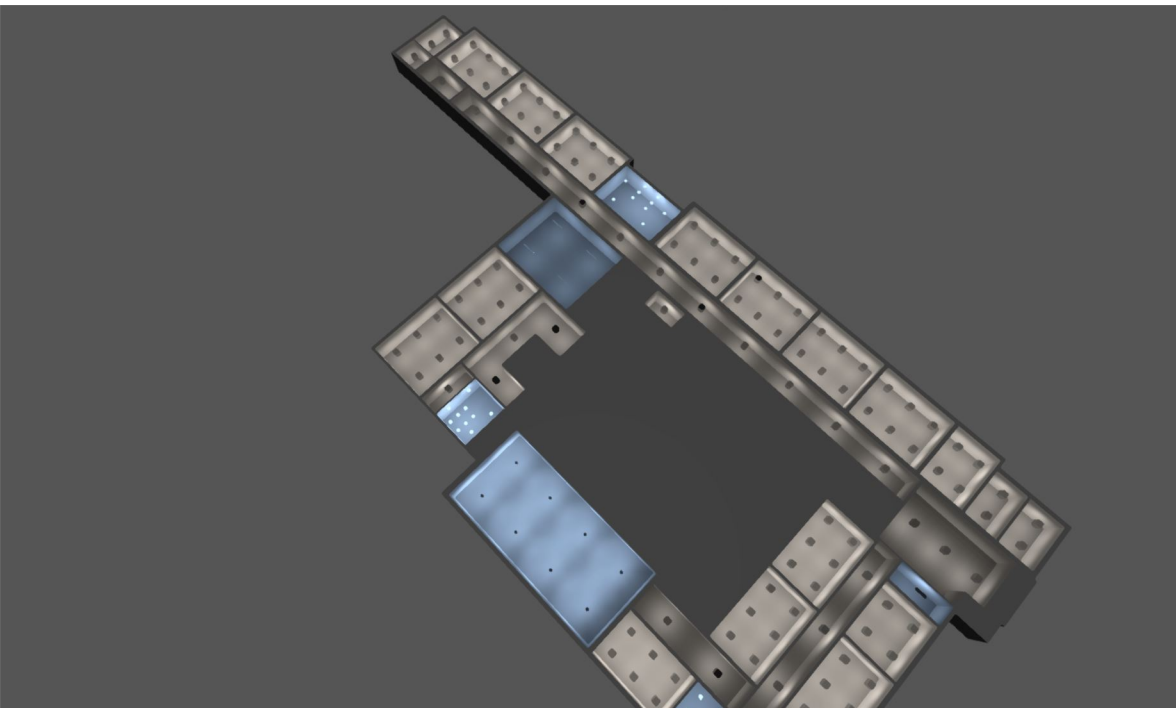
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Description

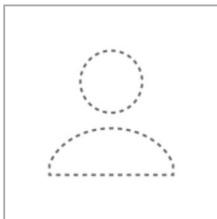
Luminaire list

Φ_{total} 644955 lm	P_{total} 5574.6 W	Luminous efficacy 115.7 lm/W
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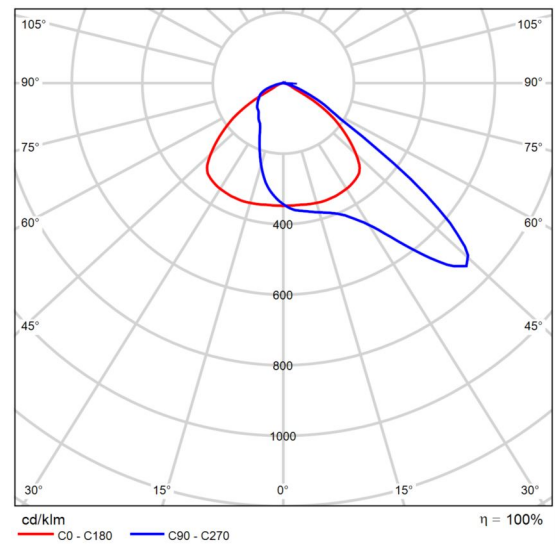
pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
125	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm	119.4 lm/W
1	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W
27	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W
4	Not yet a DIALux member	0046371	START Waterproof Slim 1500 IP65 3800lm 840	28.0 W	3800 lm	135.7 lm/W
8	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



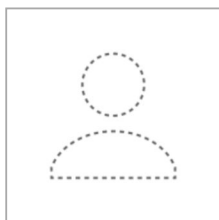
Article No.	2824062
P	67.0 W
Φ_{Lamp}	8700 lm
$\Phi_{\text{Luminaire}}$	8700 lm
η	100.00 %
Luminous efficacy	129.9 lm/W
CCT	4000 K
CRI	80



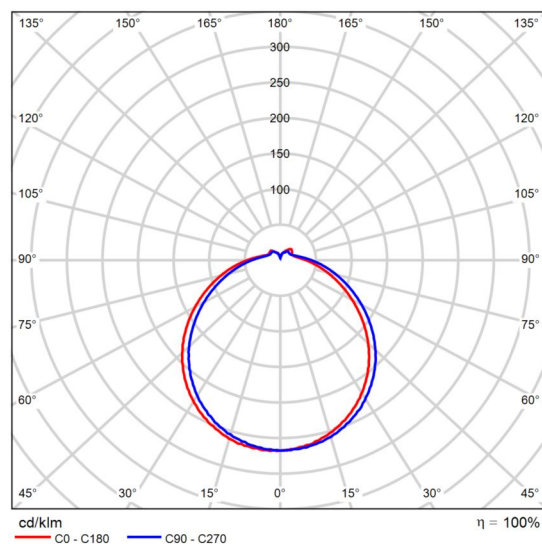
Polar LDC

Product data sheet

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



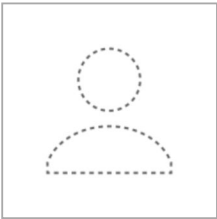
Article No.	0043438
P	23.8 W
Φ_{Lamp}	1800 lm
$\Phi_{\text{Luminaire}}$	1800 lm
η	100.00 %
Luminous efficacy	75.6 lm/W
CCT	4000 K
CRI	80



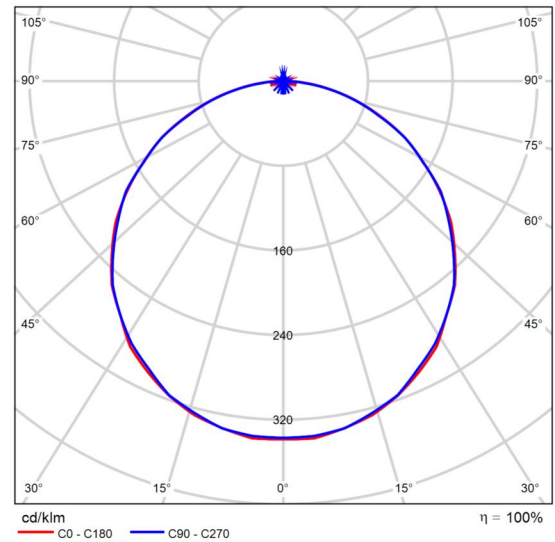
Polar LDC

Product data sheet

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



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



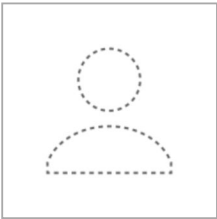
Polar LDC

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												

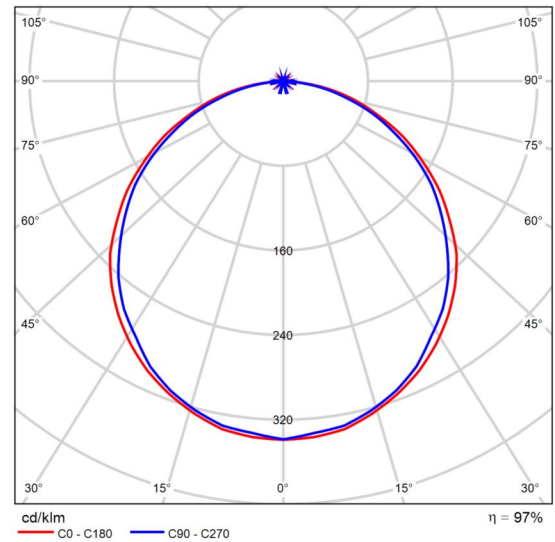
UGR diagram (SHR: 0.25)

Product data sheet

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



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



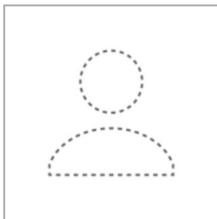
Polar LDC

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	
12H	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	
	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												

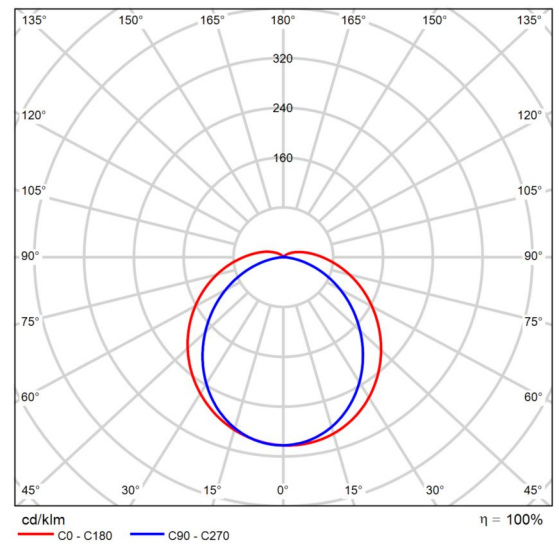
UGR diagram (SHR: 0.25)

Product data sheet

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



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



Polar LDC

Building 1

Luminaire list

Φ_{total} 644955 lm	P_{total} 5574.6 W	Luminous efficacy 115.7 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
125	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm	119.4 lm/W
1	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W
27	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W
4	Not yet a DIALux member	0046371	START Waterproof Slim 1500 IP65 3800lm 840	28.0 W	3800 lm	135.7 lm/W
8	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

P_{total} 68.0 W	A_{Room} 16.85 m ²	Lighting power density 4.04 W/m ² = 1.27 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 318 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
2	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Depo

P_{total} 34.0 W	A_{Room} 9.90 m ²	Lighting power density 3.43 W/m ² = 1.36 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 252 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
1	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Depo

P_{total} 34.0 W	A_{Room} 16.50 m ²	Lighting power density 2.06 W/m ² = 1.26 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 164 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
1	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

Depo

P_{total} 34.0 W	A_{Room} 11.57 m ²	Lighting power density 2.94 W/m ² = 1.79 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 164 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
1	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm

Depo

P_{total} 34.0 W	A_{Room} 10.51 m ²	Lighting power density 3.24 W/m ² = 1.44 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 225 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
1	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Depo

P_{total} 34.0 W	A_{Room} 7.97 m ²	Lighting power density 4.26 W/m ² = 1.49 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 286 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
1	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

Klase/Classroom

P_{total} 204.0 W	A_{Room} 51.00 m ²	Lighting power density 4.00 W/m ² = 1.13 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 354 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Klase/Classroom

P_{total} 204.0 W	A_{Room} 50.40 m ²	Lighting power density 4.05 W/m ² = 1.13 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 357 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Klase/Classroom

P_{total} 204.0 W	A_{Room} 50.70 m ²	Lighting power density 4.02 W/m ² = 1.13 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 355 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	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

Klase/Classroom

P_{total} 204.0 W	A_{Room} 56.44 m ²	Lighting power density 3.61 W/m ² = 1.12 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 324 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Klase/Classroom

P_{total} 204.0 W	A_{Room} 51.60 m ²	Lighting power density 3.95 W/m ² = 1.13 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 351 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Klase/Classroom

P_{total} 204.0 W	A_{Room} 51.60 m ²	Lighting power density 3.95 W/m ² = 1.13 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 351 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	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

Klase/Classroom

P_{total} 204.0 W	A_{Room} 51.60 m ²	Lighting power density 3.95 W/m ² = 1.13 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 351 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Klase/Classroom

P_{total} 204.0 W	A_{Room} 44.14 m ²	Lighting power density 4.62 W/m ² = 1.16 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 399 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Klase/Classroom

P_{total} 204.0 W	A_{Room} 44.69 m ²	Lighting power density 4.56 W/m ² = 1.16 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 394 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	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

Klase/Classroom

P_{total} 204.0 W	A_{Room} 44.42 m ²	Lighting power density 4.59 W/m ² = 1.16 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 396 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Klase/Classroom

P_{total} 204.0 W	A_{Room} 44.15 m ²	Lighting power density 4.62 W/m ² = 1.16 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 399 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Klase/Classroom

P_{total} 204.0 W	A_{Room} 37.83 m ²	Lighting power density 5.39 W/m ² = 1.19 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 452 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
6	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

Klase/Classroom

P_{total} 136.0 W	A_{Room} 33.25 m ²	Lighting power density 4.09 W/m ² = 1.18 W/m ² /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 347 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
4	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Klase/Classroom

P_{total} 204.0 W	A_{Room} 56.00 m ²	Lighting power density 3.64 W/m ² = 1.11 W/m ² /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 327 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Klase/Classroom

P_{total} 204.0 W	A_{Room} 56.00 m ²	Lighting power density 3.64 W/m ² = 1.11 W/m ² /100 lx (Room)	$\bar{E}_{\text{perpendicular (Working plane)}}$ 327 lx
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pcs.	Manufacturer	Article No.	Article name	P	$\Phi_{\text{Luminaire}}$
6	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

P_{total} 102.0 W	A_{Room} 54.78 m ²	Lighting power density 1.86 W/m ² = 0.88 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 212 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
3	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Koridor

P_{total} 102.0 W	A_{Room} 67.74 m ²	Lighting power density 1.51 W/m ² = 1.18 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 127 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
3	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Koridor

P_{total} 374.0 W	A_{Room} 176.69 m ²	Lighting power density 2.12 W/m ² = 1.48 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 143 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
11	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

P_{total} 68.0 W	A_{Room} 32.31 m ²	Lighting power density 2.10 W/m ² = 1.54 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 137 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
2	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Koridor

P_{total} 136.0 W	A_{Room} 57.96 m ²	Lighting power density 2.35 W/m ² = 1.65 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 142 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
4	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Koridor

P_{total} 112.0 W	A_{Room} 87.82 m ²	Lighting power density 1.28 W/m ² = 1.17 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 109 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
4	Not yet a DIALux member	0046371	START Waterproof Slim 1500 IP65 3800lm 840	28.0 W	3800 lm

Building 1 · Story 1 (Light scene 1)

Room List

Salle Sportive

P_{total} 536.0 W	A_{Room} 160.98 m ²	Lighting power density 3.33 W/m ² = 0.90 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 369 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
8	Not yet a DIALux member	2824062	RAIDEN IP66 8KLM 840 ASYM	67.0 W	8700 lm

Tualet

P_{total} 238.0 W	A_{Room} 42.33 m ²	Lighting power density 5.62 W/m ² = 2.29 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 245 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
10	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm

Tualet

P_{total} 166.6 W	A_{Room} 18.19 m ²	Lighting power density 9.16 W/m ² = 2.94 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 312 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{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} 238.0 W	A_{Room} 21.88 m ²	Lighting power density 10.88 W/m ² = 2.75 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 395 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
10	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm

Zyre

P_{total} 136.0 W	A_{Room} 30.64 m ²	Lighting power density 4.44 W/m ² = 1.20 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 369 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
4	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm

Zyre

P_{total} 68.0 W	A_{Room} 18.36 m ²	Lighting power density 3.70 W/m ² = 1.26 W/m ² /100 lx (Room)	E_{perpendicular} (Working plane) 294 lx
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pcs.	Manufacturer	Article No.	Article name	P	Φ _{Luminaire}
2	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

Zyre

 P_{total}
68.0 W A_{Room}
19.71 m²**Lighting power density**
 $3.45 \text{ W/m}^2 = 1.23 \text{ W/m}^2/100 \text{ lx (Room)}$ $\bar{E}_{\text{perpendicular (Working plane)}}$
279 lx

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

Building 1 · Story 1

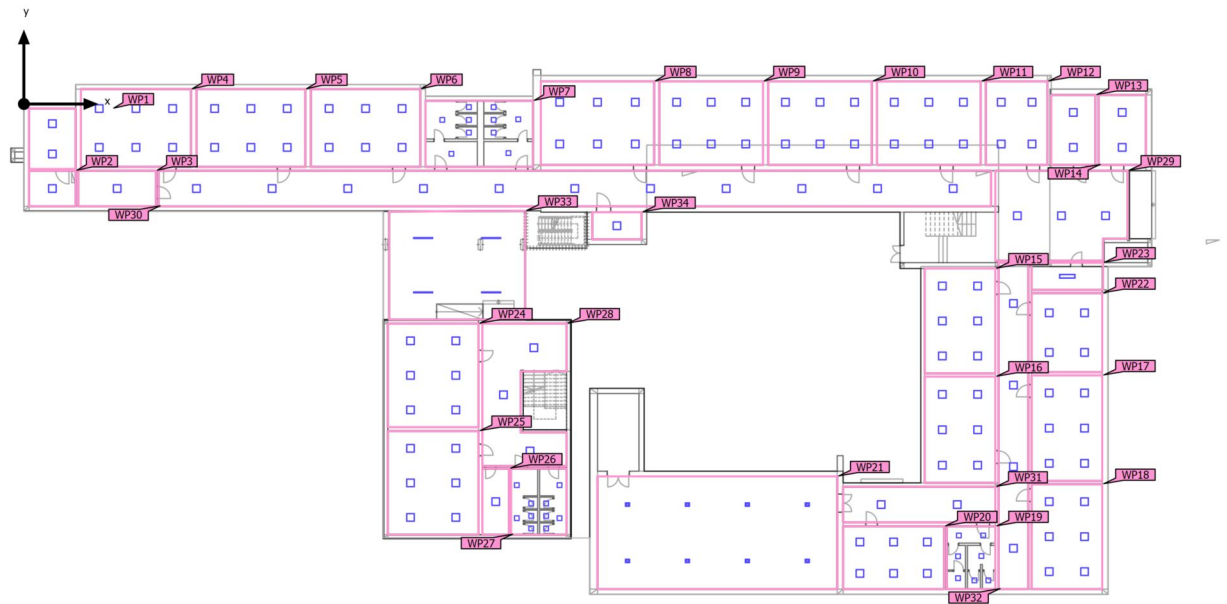
Luminaire list

Φ_{total} 644955 lm	P_{total} 5574.6 W	Luminous efficacy 115.7 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
125	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	34.0 W	4061 lm	119.4 lm/W
1	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	34.0 W	3930 lm	115.6 lm/W
27	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	23.8 W	1800 lm	75.6 lm/W
4	Not yet a DIALux member	0046371	START Waterproof Slim 1500 IP65 3800lm 840	28.0 W	3800 lm	135.7 lm/W
8	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 (Target)	g_2	Index
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	318 lx (≥ 100 lx) ✓	115 lx	647 lx	0.36 (≥ 0.40) ✗	0.18	WP1
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	252 lx (≥ 100 lx) ✓	92.1 lx	587 lx	0.37 (≥ 0.40) ✗	0.16	WP2
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	164 lx (≥ 100 lx) ✓	32.2 lx	583 lx	0.20 (≥ 0.40) ✗	0.055	WP3
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	354 lx (≥ 300 lx) ✓	135 lx	654 lx	0.38 (≥ 0.60) ✗	0.21	WP4
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	357 lx (≥ 300 lx) ✓	140 lx	657 lx	0.39 (≥ 0.60) ✗	0.21	WP5
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	355 lx (≥ 300 lx) ✓	138 lx	655 lx	0.39 (≥ 0.60) ✗	0.21	WP6
Working plane (Tualet) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	245 lx (≥ 200 lx) ✓	89.2 lx	425 lx	0.36 (≥ 0.40) ✗	0.21	WP7
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	324 lx (≥ 300 lx) ✓	115 lx	665 lx	0.35 (≥ 0.60) ✗	0.17	WP8
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	351 lx (≥ 300 lx) ✓	129 lx	687 lx	0.37 (≥ 0.60) ✗	0.19	WP9
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	351 lx (≥ 300 lx) ✓	127 lx	684 lx	0.36 (≥ 0.60) ✗	0.19	WP10
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	351 lx (≥ 300 lx) ✓	127 lx	686 lx	0.36 (≥ 0.60) ✗	0.19	WP11

Building 1 · Story 1 (Light scene 1)

Calculation objects

Working plane (Zyre) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	369 lx (≥ 300 lx) ✓	149 lx	668 lx	0.40 (≥ 0.60) ✗	0.22	WP12
Working plane (Zyre) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	294 lx (≥ 250 lx) ✓	108 lx	623 lx	0.37 (≥ 0.60) ✗	0.17	WP13
Working plane (Zyre) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	279 lx (≥ 250 lx) ✓	96.3 lx	628 lx	0.35 (≥ 0.60) ✗	0.15	WP14
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	399 lx (≥ 300 lx) ✓	163 lx	681 lx	0.41 (≥ 0.60) ✗	0.24	WP15
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	394 lx (≥ 300 lx) ✓	164 lx	676 lx	0.42 (≥ 0.60) ✗	0.24	WP16
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	396 lx (≥ 300 lx) ✓	163 lx	678 lx	0.41 (≥ 0.60) ✗	0.24	WP17
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	399 lx (≥ 300 lx) ✓	165 lx	682 lx	0.41 (≥ 0.60) ✗	0.24	WP18
Working plane (Tualet) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	312 lx (≥ 200 lx) ✓	192 lx	390 lx	0.62 (≥ 0.40) ✓	0.49	WP19
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	452 lx (≥ 300 lx) ✓	193 lx	727 lx	0.43 (≥ 0.60) ✗	0.27	WP20
Working plane (Salle Sportive) Perpendicular illuminance (adaptive) Height: 1.000 m, Wall zone: 0.000 m	369 lx (≥ 300 lx) ✓	47.3 lx	895 lx	0.13 (≥ 0.60) ✗	0.053	WP21
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	347 lx (≥ 300 lx) ✓	135 lx	659 lx	0.39 (≥ 0.60) ✗	0.20	WP22
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	164 lx (≥ 150 lx) ✓	55.6 lx	322 lx	0.34 (≥ 0.40) ✗	0.17	WP23

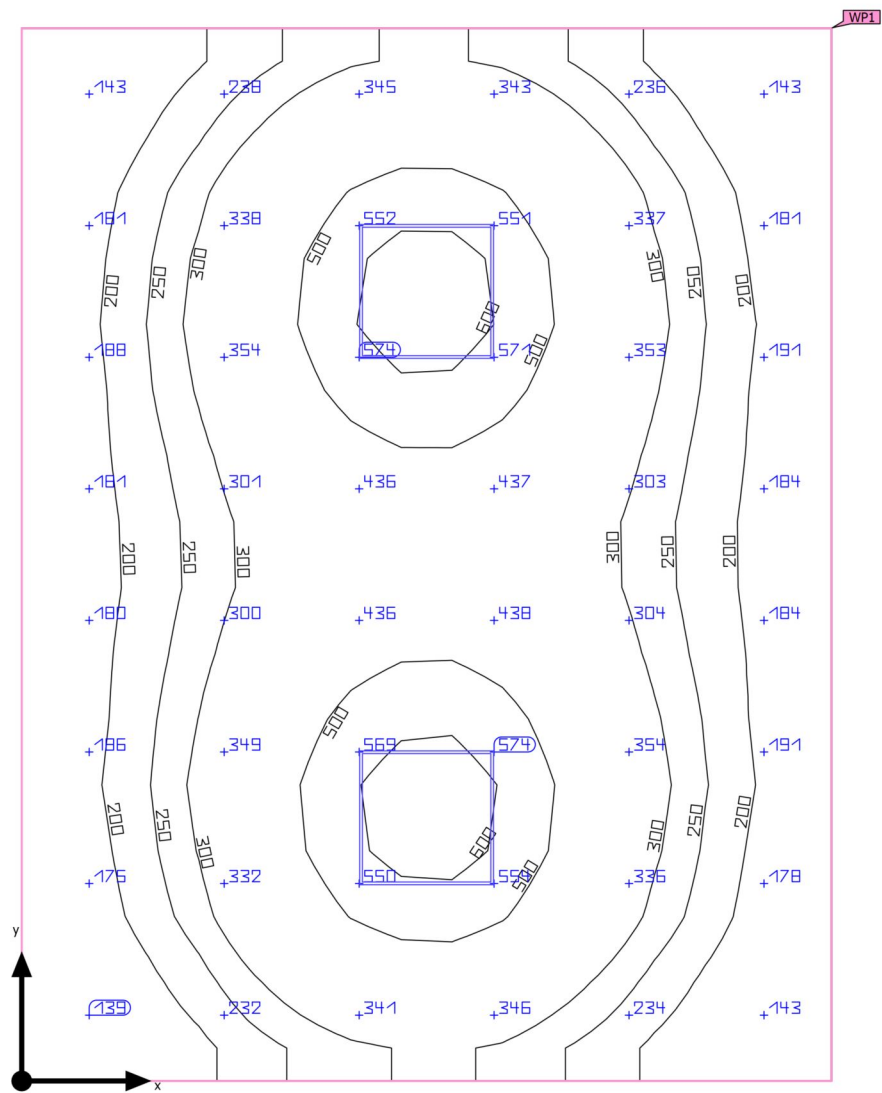
Building 1 · Story 1 (Light scene 1)

Calculation objects

Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	327 lx (≥ 300 lx) ✓	113 lx	674 lx	0.35 (≥ 0.60) ✗	0.17	WP24
Working plane (Klase/Classroom) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	327 lx (≥ 300 lx) ✓	112 lx	674 lx	0.34 (≥ 0.60) ✗	0.17	WP25
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	225 lx (≥ 200 lx) ✓	56.5 lx	615 lx	0.25 (≥ 0.60) ✗	0.092	WP26
Working plane (Tualet) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	395 lx (≥ 200 lx) ✓	173 lx	624 lx	0.44 (≥ 0.40) ✓	0.28	WP27
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	212 lx (≥ 100 lx) ✓	99.8 lx	315 lx	0.47 (≥ 0.40) ✓	0.32	WP28
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	127 lx (≥ 100 lx) ✓	38.8 lx	286 lx	0.31 (≥ 0.40) ✗	0.14	WP29
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	143 lx (≥ 100 lx) ✓	60.7 lx	271 lx	0.42 (≥ 0.40) ✓	0.22	WP30
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	137 lx (≥ 100 lx) ✓	49.2 lx	268 lx	0.36 (≥ 0.40) ✗	0.18	WP31
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	142 lx (≥ 100 lx) ✓	48.1 lx	278 lx	0.34 (≥ 0.40) ✗	0.17	WP32
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	109 lx (≥ 100 lx) ✓	47.5 lx	162 lx	0.44 (≥ 0.40) ✓	0.29	WP33
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	286 lx (≥ 100 lx) ✓	110 lx	618 lx	0.38 (≥ 0.40) ✗	0.18	WP34

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

Summary



Ground area	16.85 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	318 lx	$\geq 100 \text{ lx}$	✓	WP1
	g_1	0.36	≥ 0.40	✗	WP1
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	17	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	596 kWh/a	max. 600 kWh/a	✓	
Room	Lighting power density	4.04 W/m ²	–		
		1.27 W/m ² /100 lx	–		

(1) Based on a rectangular space of 3.600 m x 4.680 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

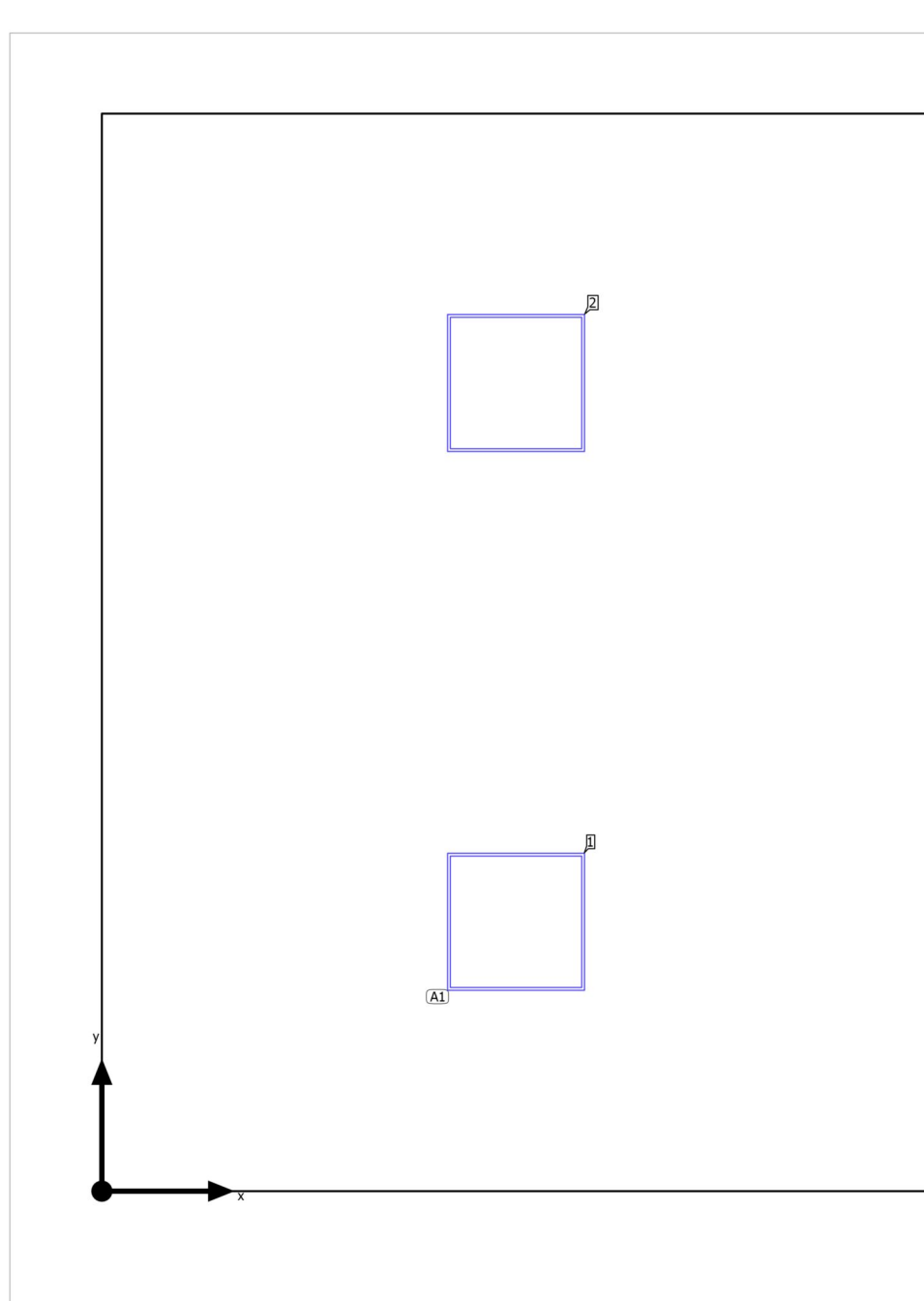
Utilization profile: Health care premises - Wards, maternity wards (5.39.1 General lighting)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
2	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	17	34.0 W	4061 lm	119.4 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.	0042872	$\Phi_{\text{Luminaire}}$	4061 lm
Article name	START Panel 600x600 HE 4100Lm 830 LILO		
Fitting	1x LED		

2 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)	1.800 m / 1.170 m / 2.800 m	1.800 m	1.170 m	2.800 m	1
X-direction	1 pcs., Center - center, 3.600 m	1.800 m	3.510 m	2.800 m	2
Y-direction	2 pcs., Center - center, 2.340 m				
Arrangement	A1				

Building 1 · Story 1 · Depo

Luminaire list Φ_{total}

8122 lm

 P_{total}

68.0 W

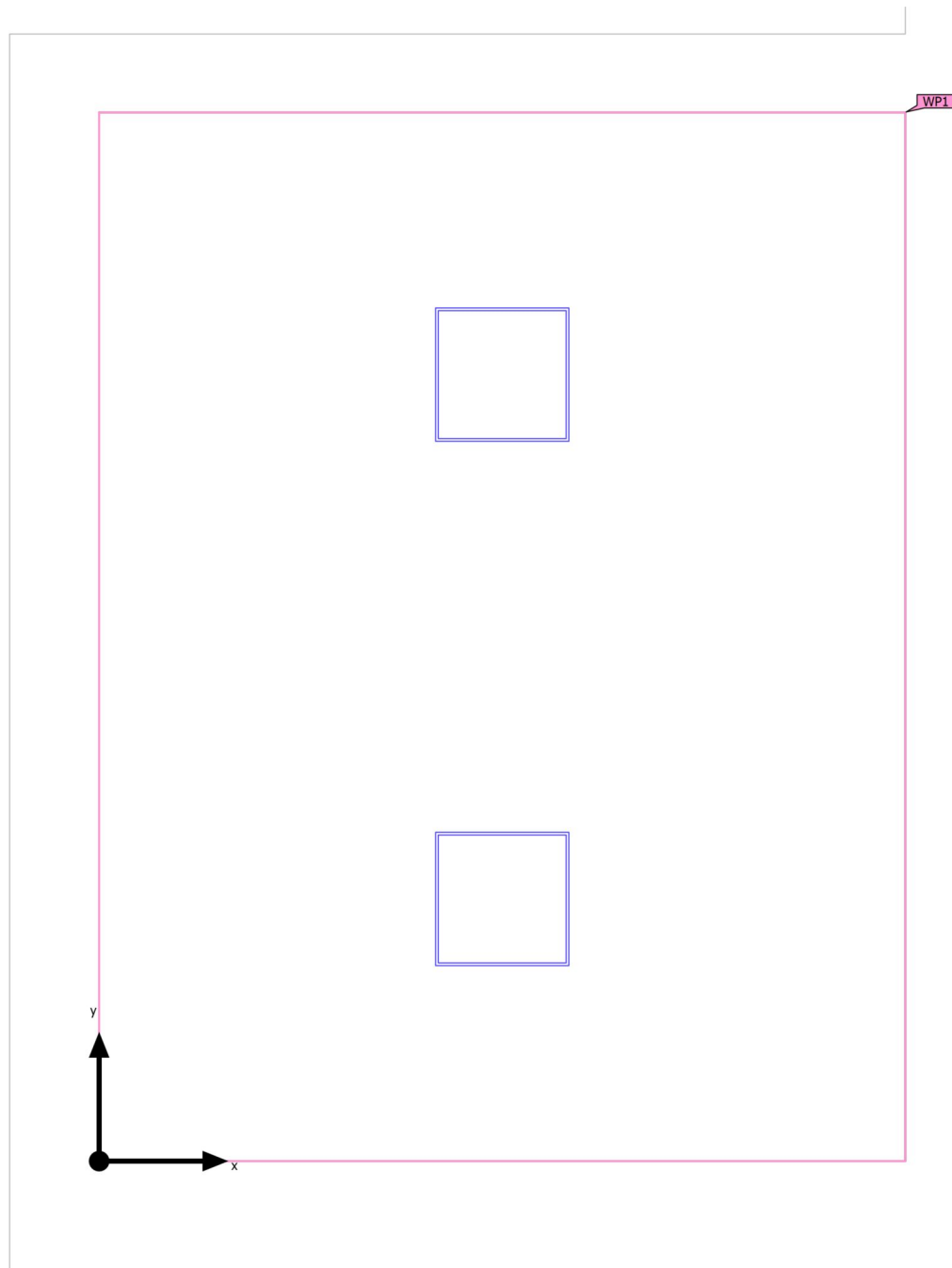
Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	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 · Depo (Light scene 1)

Calculation objects



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

Calculation objects

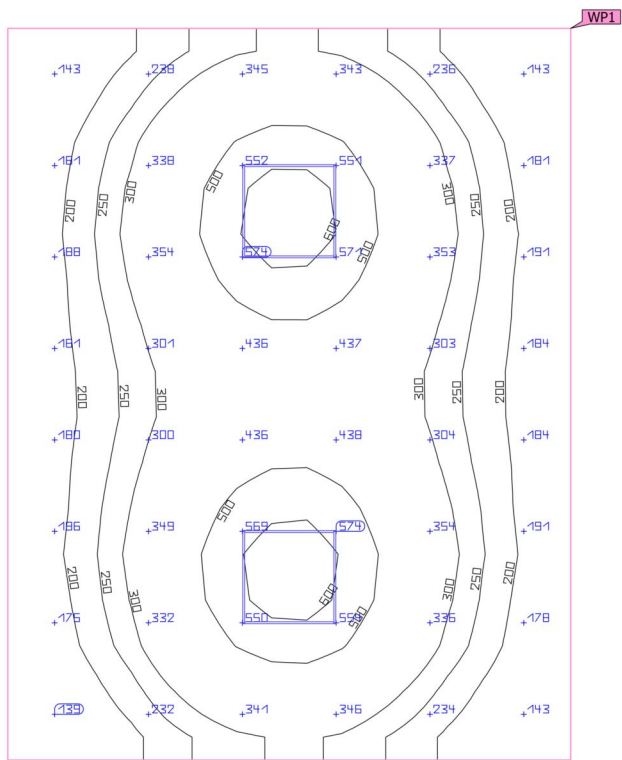
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Depo)	318 lx	115 lx	647 lx	0.36	0.18	WP1
Perpendicular illuminance (adaptive)	(≥ 100 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Wards, maternity wards (5.39.1 General lighting)

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

Working plane (Depo)

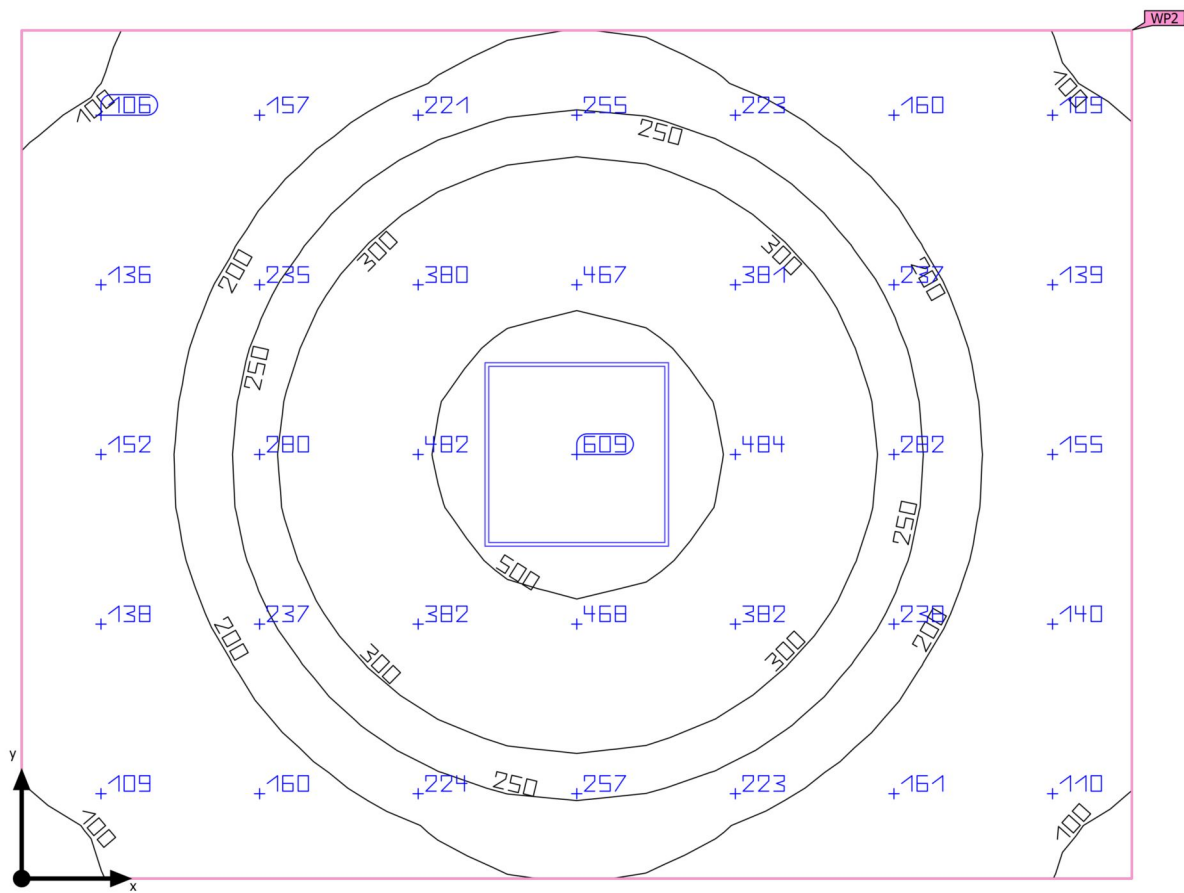


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Depo)	318 lx	115 lx	647 lx	0.36	0.18	WP1
Perpendicular illuminance (adaptive)	≥ 100 lx			≥ 0.40		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Wards, maternity wards (5.39.1 General lighting)

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

Summary



Ground area	9.90 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	252 lx	$\geq 100 \text{ lx}$	✓	WP2
	g_1	0.37	≥ 0.40	✗	WP2
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	17	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	298 kWh/a	max. 350 kWh/a	✓	
Room	Lighting power density	3.43 W/m ²	–		
		1.36 W/m ² /100 lx	–		

(1) Based on a rectangular space of 3.600 m x 2.750 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

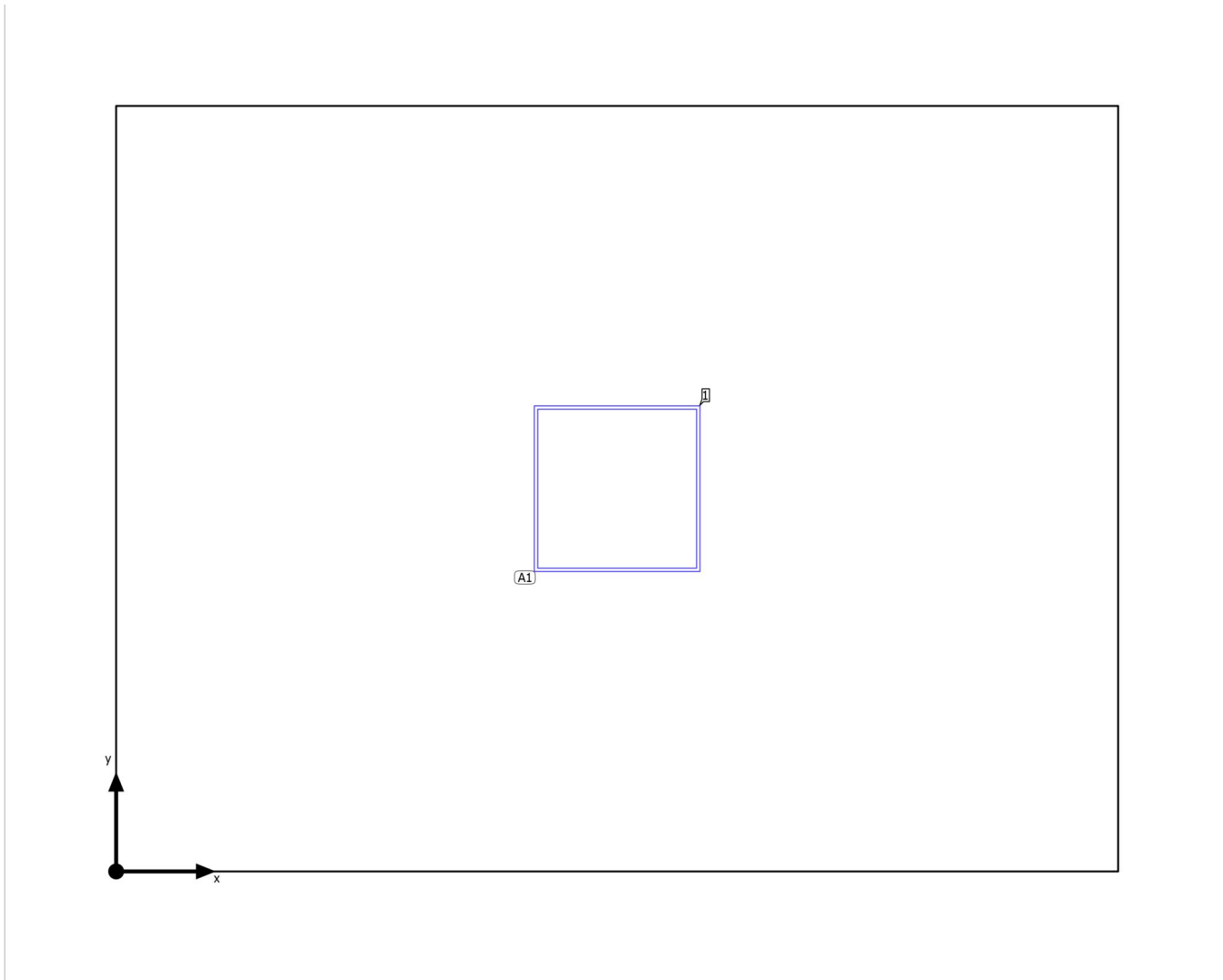
Utilization profile: Health care premises - Wards, maternity wards (5.39.1 General lighting)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
1	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	17	34.0 W	4061 lm	119.4 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.	0042872	$\Phi_{\text{Luminaire}}$	4061 lm
Article name	START Panel 600x600 HE 4100Lm 830 LILO		
Fitting	1x LED		

1 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)	1.800 m / 1.375 m / 2.800 m	1.800 m	1.375 m	2.800 m	1
X-direction	1 pcs., Center - center, 3.600 m				
Y-direction	1 pcs., Center - center, 2.750 m				
Arrangement	A1				

Building 1 · Story 1 · Depo

Luminaire list Φ_{total}

4061 lm

 P_{total}

34.0 W

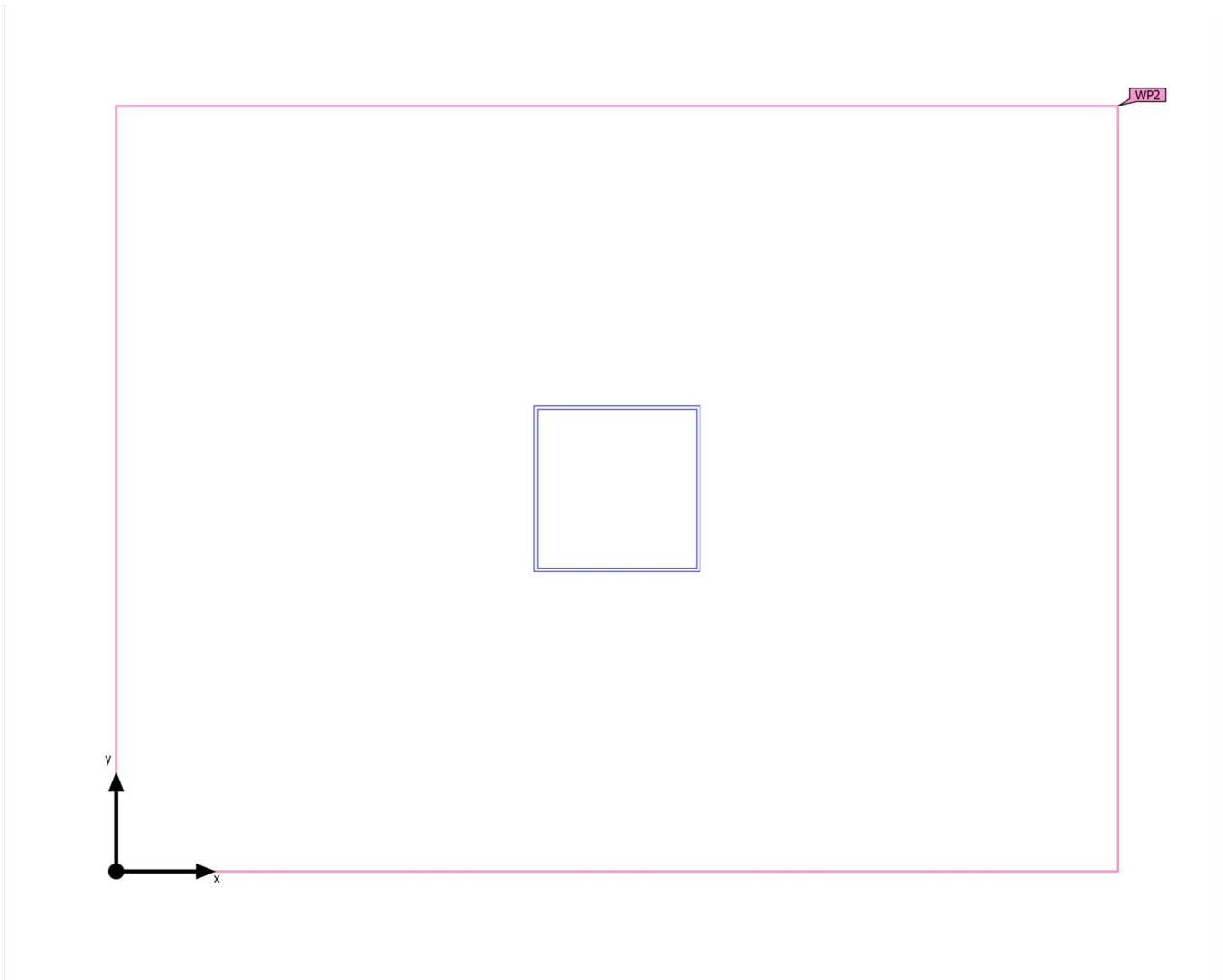
Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	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 · Depo (Light scene 1)

Calculation objects



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

Calculation objects

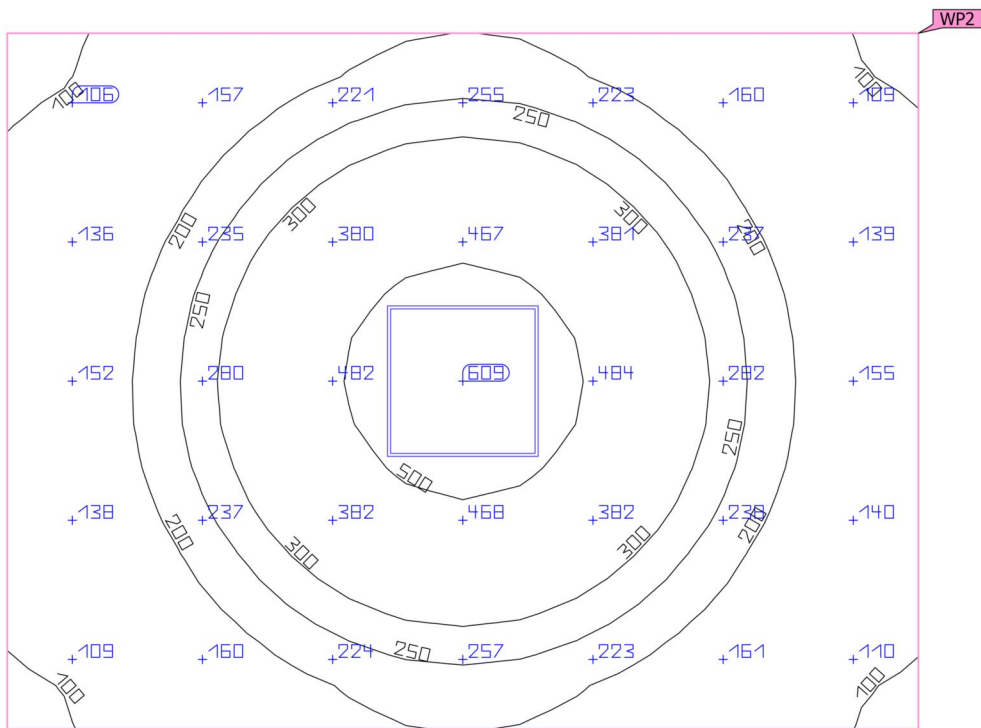
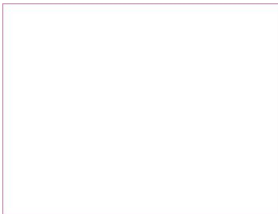
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Depo)	252 lx	92.1 lx	587 lx	0.37	0.16	WP2
Perpendicular illuminance (adaptive)	(≥ 100 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Wards, maternity wards (5.39.1 General lighting)

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

Working plane (Depo)

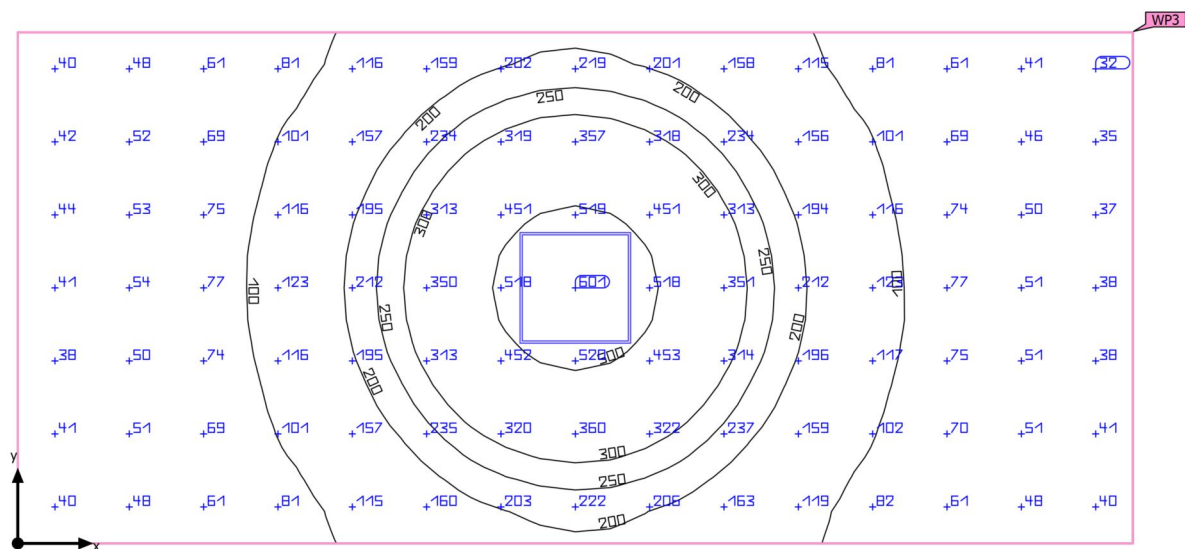


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Depo) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	252 lx (≥ 100 lx) ✓	92.1 lx	587 lx	0.37 (≥ 0.40) ✗	0.16	WP2

Utilization profile: Health care premises - Wards, maternity wards (5.39.1 General lighting)

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

Summary



Ground area	16.50 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	164 lx	≥ 100 lx	✓	WP3
	g_1	0.20	≥ 0.40	✗	WP3
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	19	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	298 kWh/a	max. 600 kWh/a	✓	
Room	Lighting power density	2.06 W/m ²	–		
		1.26 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.000 m x 2.750 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

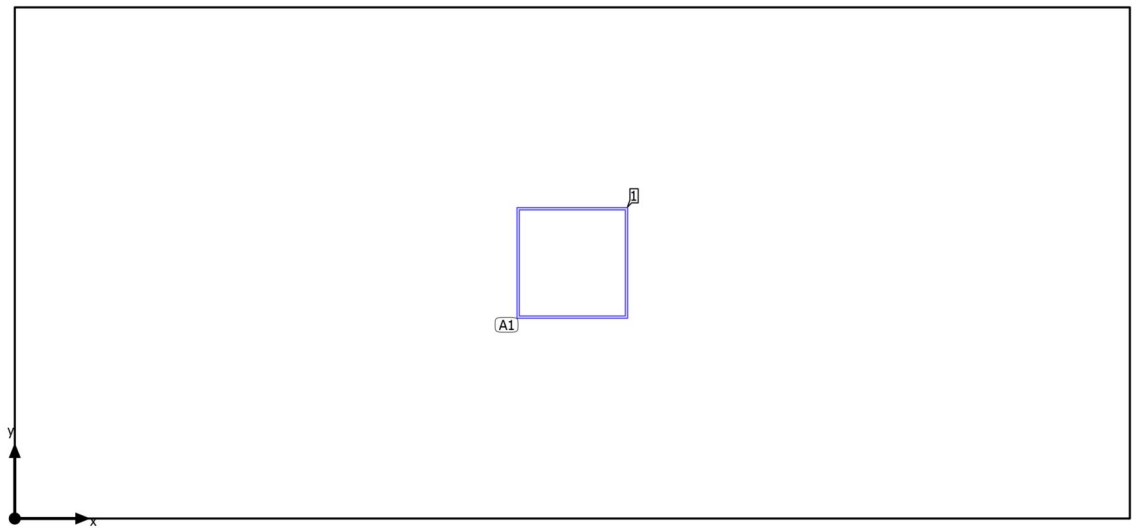
Utilization profile: Health care premises - Wards, maternity wards (5.39.1 General lighting)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
1	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	19	34.0 W	4061 lm	119.4 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.	0042872	$\Phi_{\text{Luminaire}}$	4061 lm
Article name	START Panel 600x600 HE 4100Lm 830 LILO		
Fitting	1x LED		

1 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)	3.000 m / 1.375 m / 2.800 m	3.000 m	1.375 m	2.800 m	1
X-direction	1 pcs., Center - center, 6.000 m				
Y-direction	1 pcs., Center - center, 2.750 m				
Arrangement	A1				

Building 1 · Story 1 · Depo

Luminaire list Φ_{total}

4061 lm

 P_{total}

34.0 W

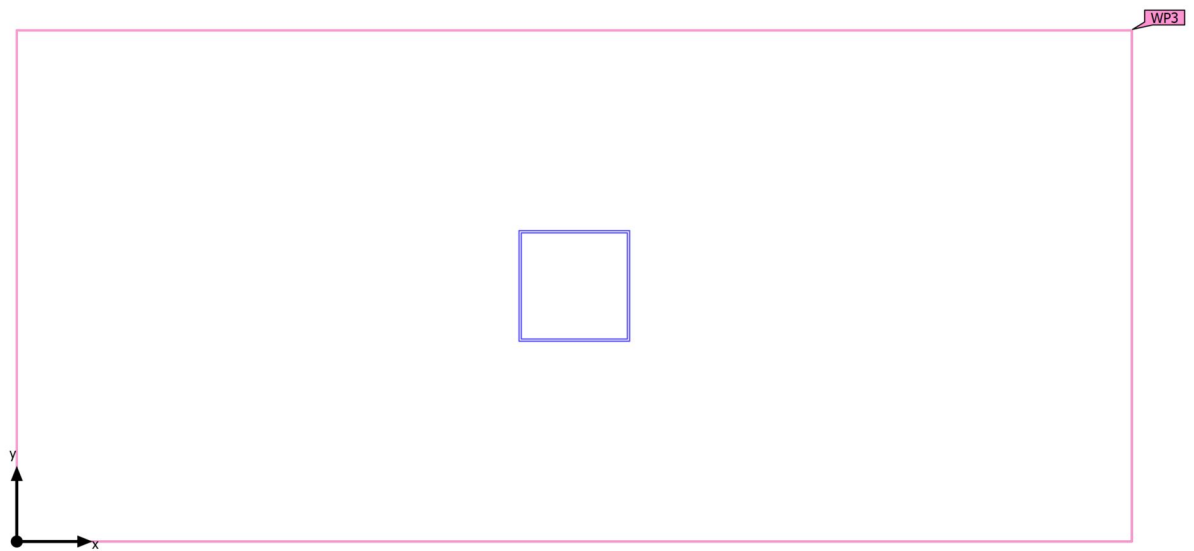
Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	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 · Depo (Light scene 1)

Calculation objects



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

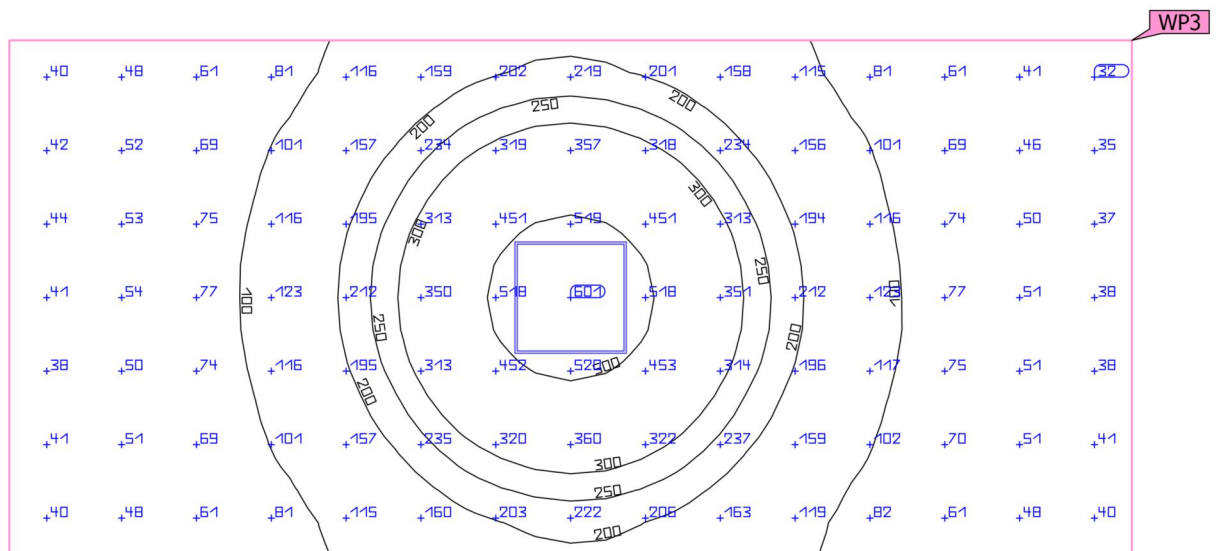
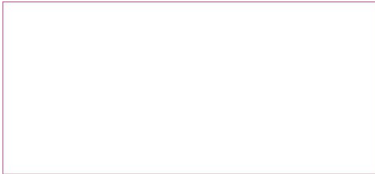
Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Depo)	164 lx	32.2 lx	583 lx	0.20	0.055	WP3
Perpendicular illuminance (adaptive)	(≥ 100 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Wards, maternity wards (5.39.1 General lighting)

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

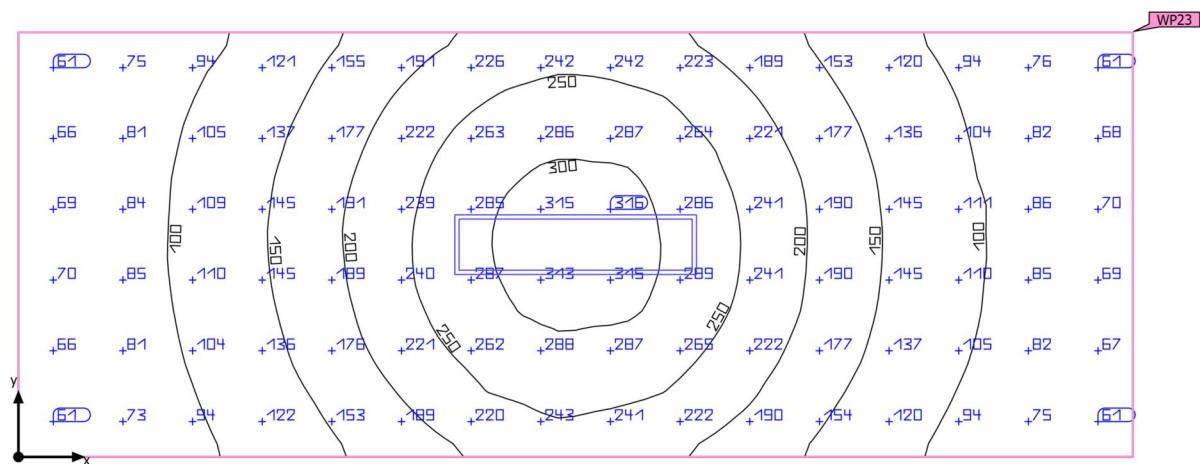
Working plane (Depo)

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Depo)	164 lx	32.2 lx	583 lx	0.20	0.055	WP3
Perpendicular illuminance (adaptive)	(≥ 100 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Wards, maternity wards (5.39.1 General lighting)

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

Summary



Ground area	11.57 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	164 lx	≥ 150 lx	✓	WP23
	g_1	0.34	≥ 0.40	✗	WP23
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	19	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	65.5 kWh/a	max. 450 kWh/a	✓	
Room	Lighting power density	2.94 W/m ²	–		
		1.79 W/m ² /100 lx	–		

(1) Based on a rectangular space of 2.100 m x 5.512 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

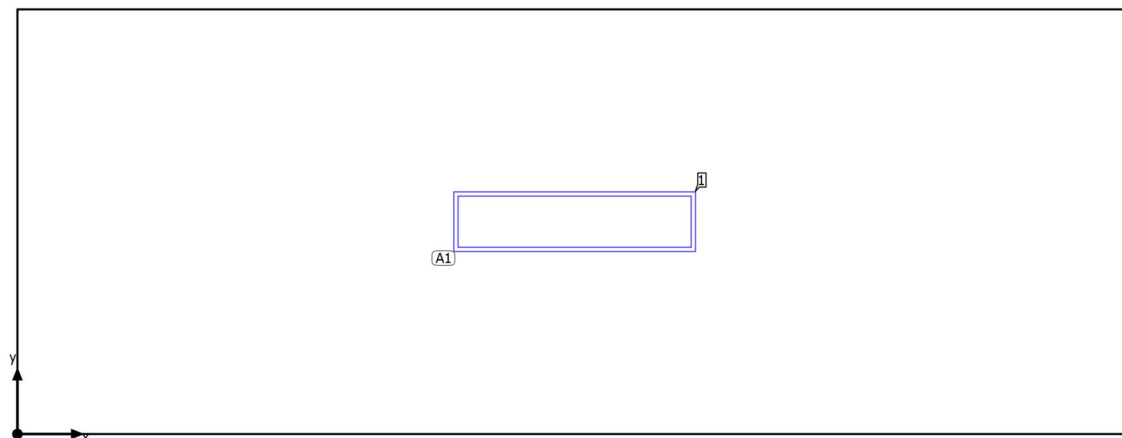
Utilization profile: Health care premises - Rooms for general use (5.37.1 Waiting rooms)

Luminaire list

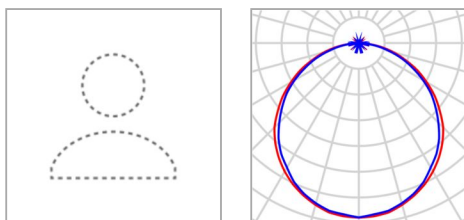
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
1	Not yet a DIALux member	0042879	START Panel 1200x300 HE 4100Lm 840 LILO	19	34.0 W	3930 lm	115.6 lm/W

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)	2.756 m / 1.050 m / 2.800 m	2.756 m	1.050 m	2.800 m	1
X-direction	1 pcs., Center - center, 5.512 m				
Y-direction	1 pcs., Center - center, 2.100 m				
Arrangement	A1				

Building 1 · Story 1 · Depo

Luminaire list Φ_{total}

3930 lm

 P_{total}

34.0 W

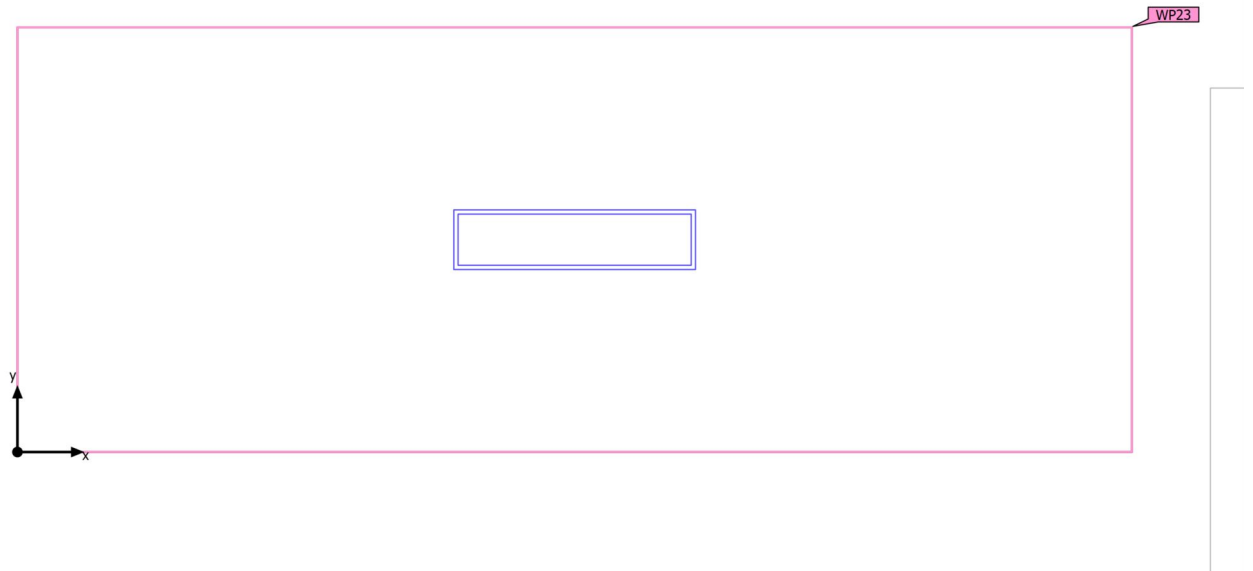
Luminous efficacy

115.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	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)

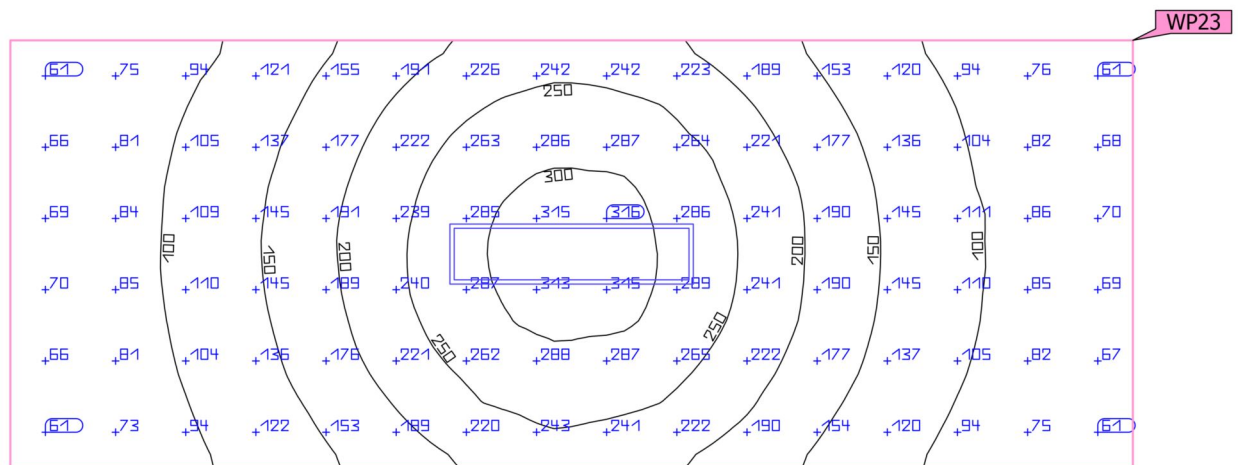
Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Depo)	164 lx	55.6 lx	322 lx	0.34	0.17	WP23
Perpendicular illuminance (adaptive)	(≥ 150 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

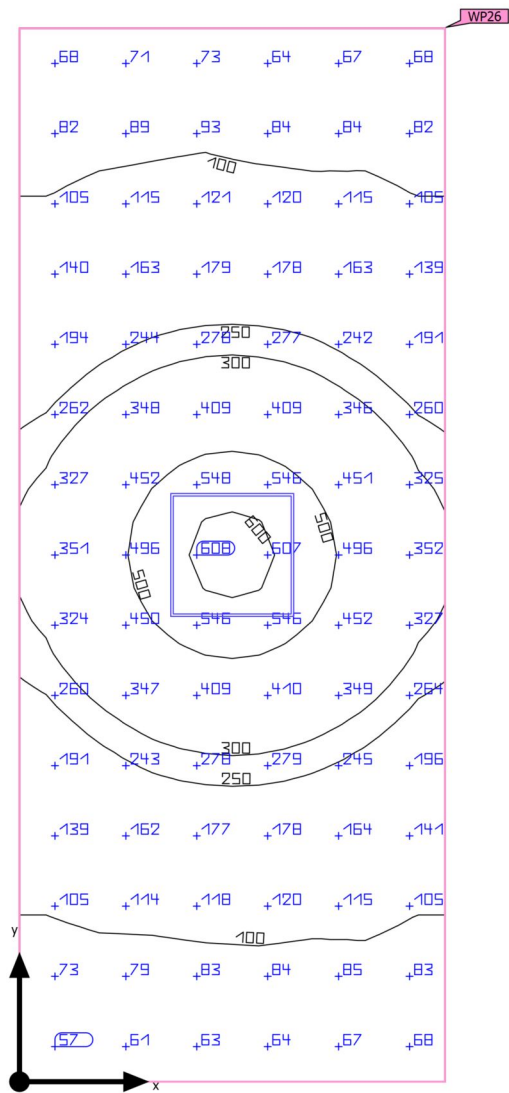
Working plane (Depo)

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Depo)	164 lx	55.6 lx	322 lx	0.34	0.17	WP23
Perpendicular illuminance (adaptive)	(≥ 150 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	10.51 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	225 lx	≥ 200 lx	✓	WP26
	g_1	0.25	≥ 0.60	✗	WP26
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	19	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	65.5 kWh/a	max. 400 kWh/a	✓	
Room	Lighting power density	3.24 W/m ²	–		
		1.44 W/m ² /100 lx	–		

(1) Based on a rectangular space of 2.060 m x 5.100 m and SHR of 0.25.

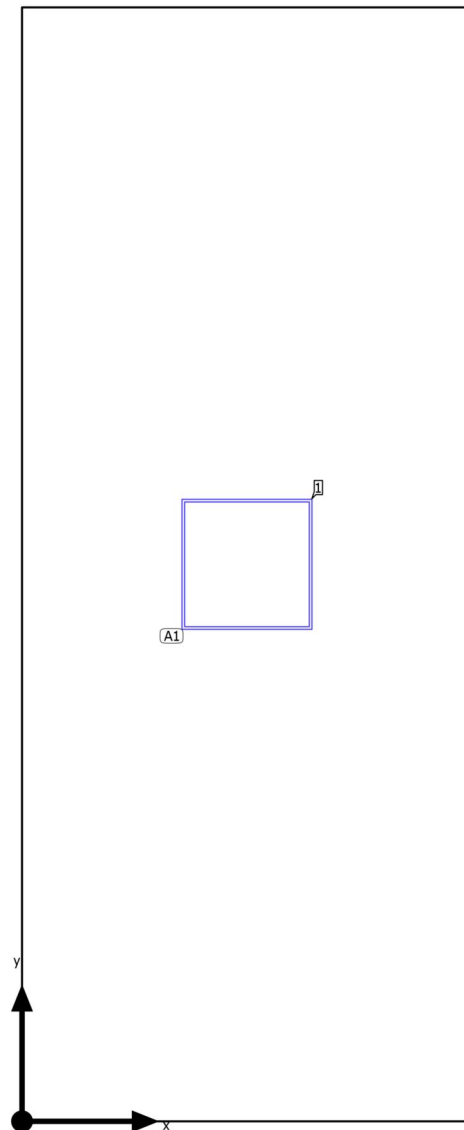
(2) Calculated using DIN:18599-4.

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

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
1	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	19	34.0 W	4061 lm	119.4 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.	0042872	$\Phi_{\text{Luminaire}}$	4061 lm
Article name	START Panel 600x600 HE 4100Lm 830 LILO		
Fitting	1x LED		

1 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)	1.030 m / 2.550 m / 2.800 m	1.030 m	2.550 m	2.800 m	1
X-direction	1 pcs., Center - center, 2.060 m				
Y-direction	1 pcs., Center - center, 5.100 m				
Arrangement	A1				

Building 1 · Story 1 · Depo

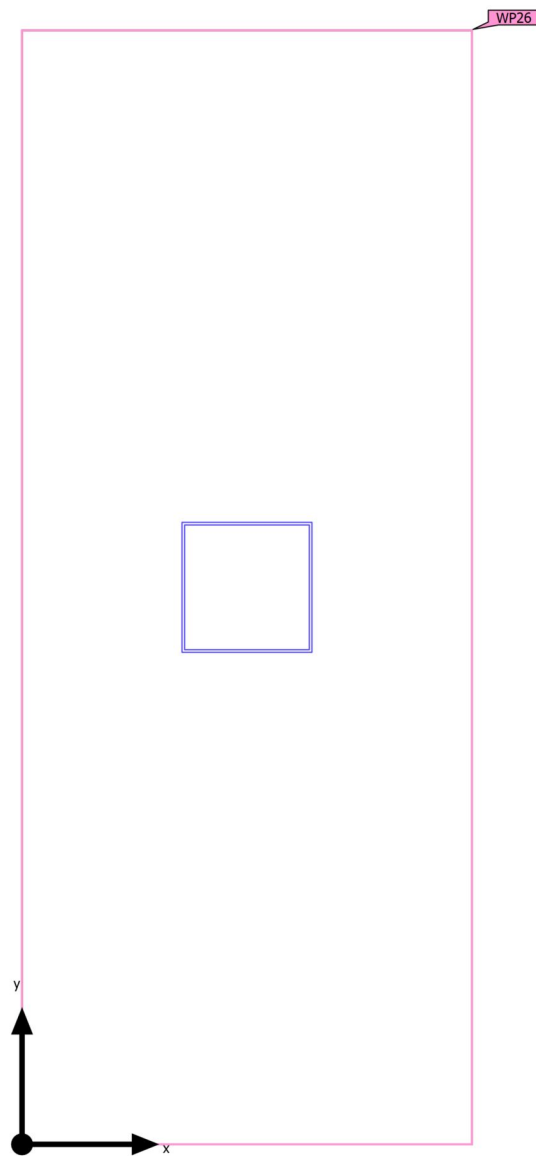
Luminaire list

Φ_{total} 4061 lm	P_{total} 34.0 W	Luminous efficacy 119.4 lm/W
----------------------------------	------------------------------	---------------------------------

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	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 · Depo (Light scene 1)

Calculation objects



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

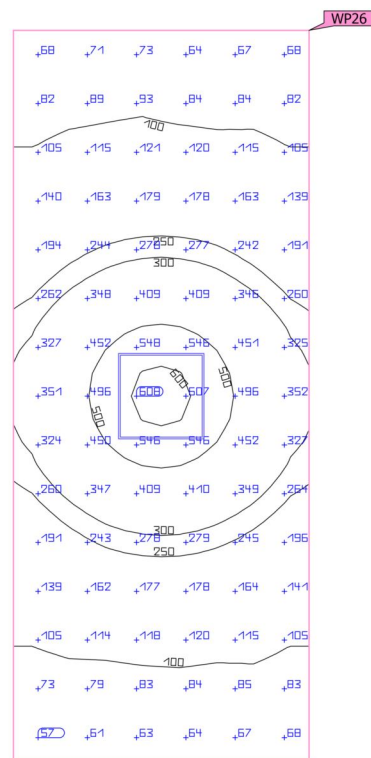
Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Depo)	225 lx	56.5 lx	615 lx	0.25	0.092	WP26
Perpendicular illuminance (adaptive)	(≥ 200 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

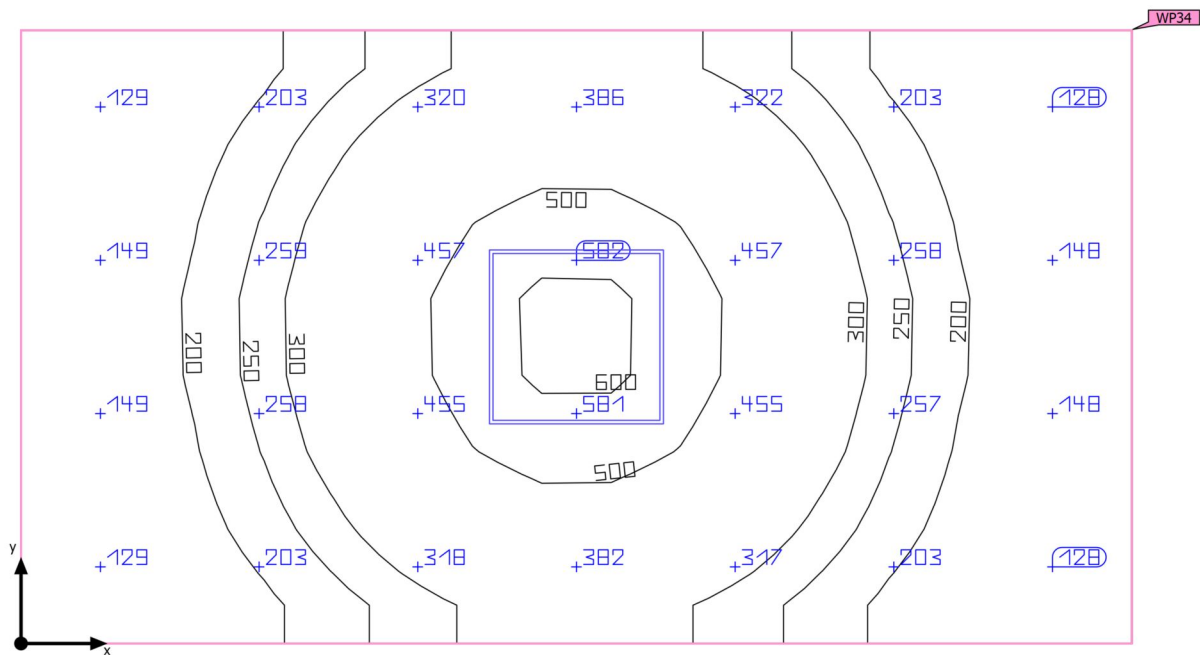
Working plane (Depo)

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Depo)	225 lx	56.5 lx	615 lx	0.25	0.092	WP26
Perpendicular illuminance (adaptive)	≥ 200 lx			≥ 0.60		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	7.97 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	286 lx	$\geq 100 \text{ lx}$	✓	WP34
	g_1	0.38	≥ 0.40	✗	WP34
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	17	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	298 kWh/a	max. 300 kWh/a	✓	
Room	Lighting power density	4.26 W/m ²	–		
		1.49 W/m ² /100 lx	–		

(1) Based on a rectangular space of 2.098 m x 3.800 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

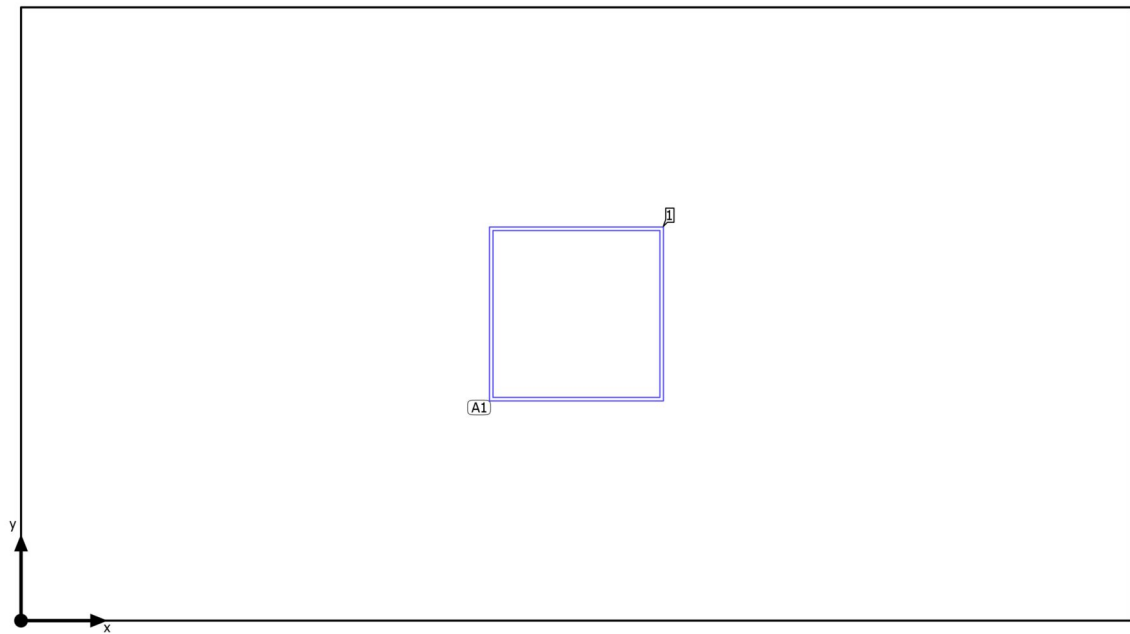
Utilization profile: Health care premises - Wards, maternity wards (5.39.1 General lighting)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
1	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	17	34.0 W	4061 lm	119.4 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.	0042872	$\Phi_{\text{Luminaire}}$	4061 lm
Article name	START Panel 600x600 HE 4100Lm 830 LILO		
Fitting	1x LED		

1 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)	1.900 m / 1.049 m / 2.800 m	1.900 m	1.049 m	2.800 m	1
X-direction	1 pcs., Center - center, 3.800 m				
Y-direction	1 pcs., Center - center, 2.098 m				
Arrangement	A1				

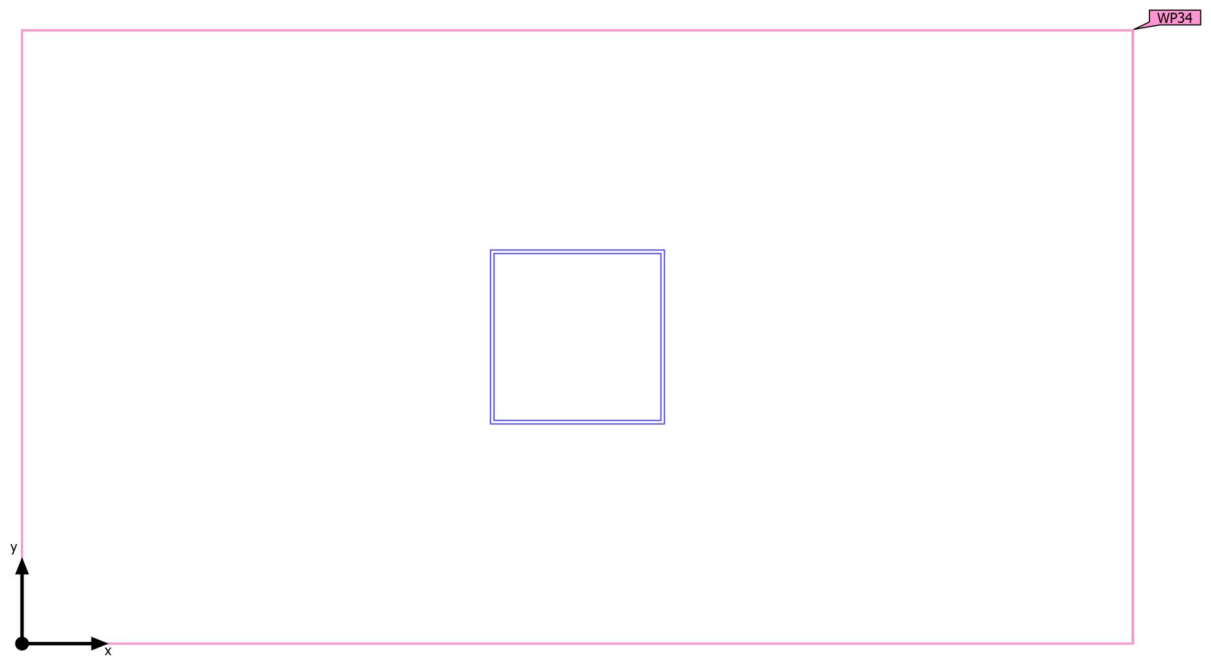
Building 1 · Story 1 · Depo

Luminaire list

Φ_{total} 4061 lm		P_{total} 34.0 W		Luminous efficacy 119.4 lm/W		
pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
1	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 · Depo (Light scene 1)

Calculation objects



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

Calculation objects

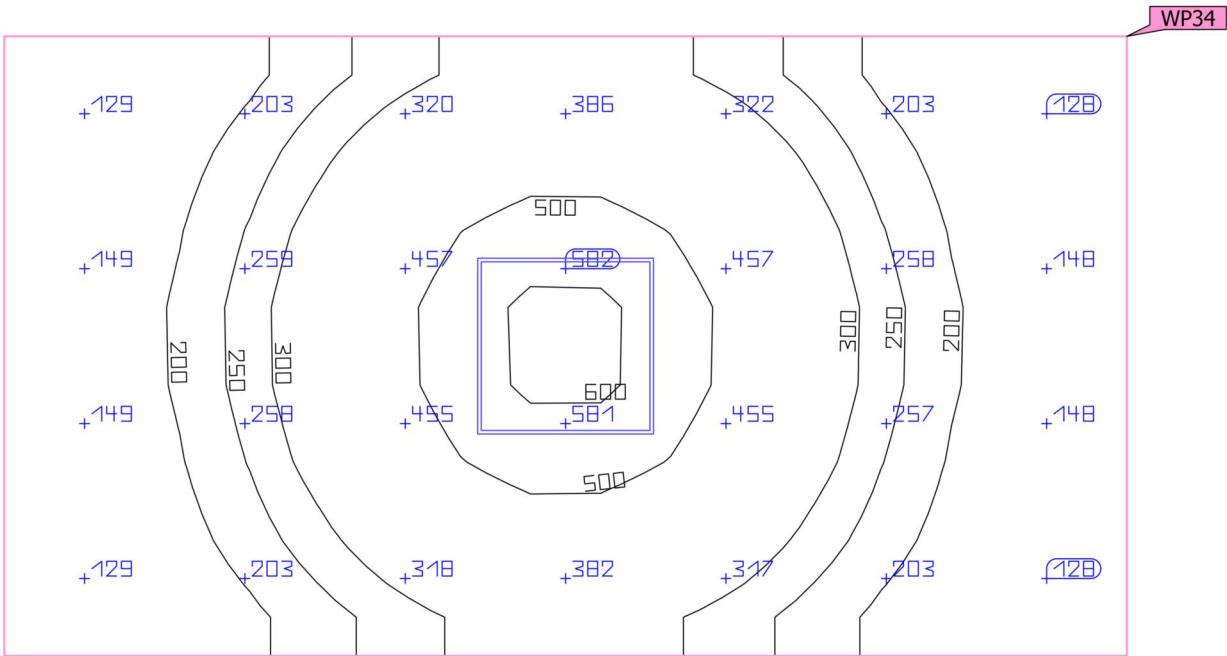
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Depo)	286 lx	110 lx	618 lx	0.38	0.18	WP34
Perpendicular illuminance (adaptive)	(≥ 100 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Wards, maternity wards (5.39.1 General lighting)

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

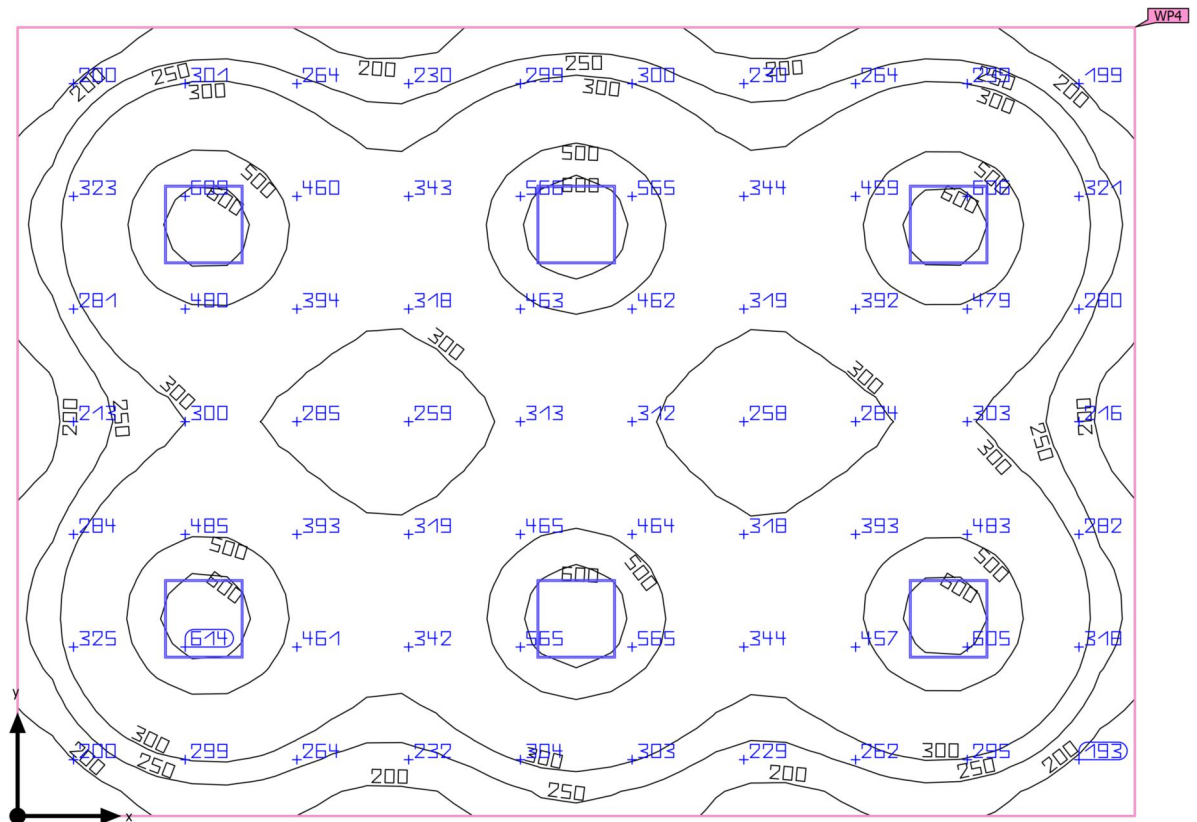
Working plane (Depo)



Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Depo)	286 lx	110 lx	618 lx	0.38	0.18	WP34
Perpendicular illuminance (adaptive)	(≥ 100 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Wards, maternity wards (5.39.1 General lighting)

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

Summary

Ground area	51.00 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	354 lx	$\geq 300 \text{ lx}$	✓	WP4
	g_1	0.38	≥ 0.60	✗	WP4
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	20	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 1800 kWh/a	✓	
Room	Lighting power density	4.00 W/m ²	–		
		1.13 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.000 m x 8.500 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

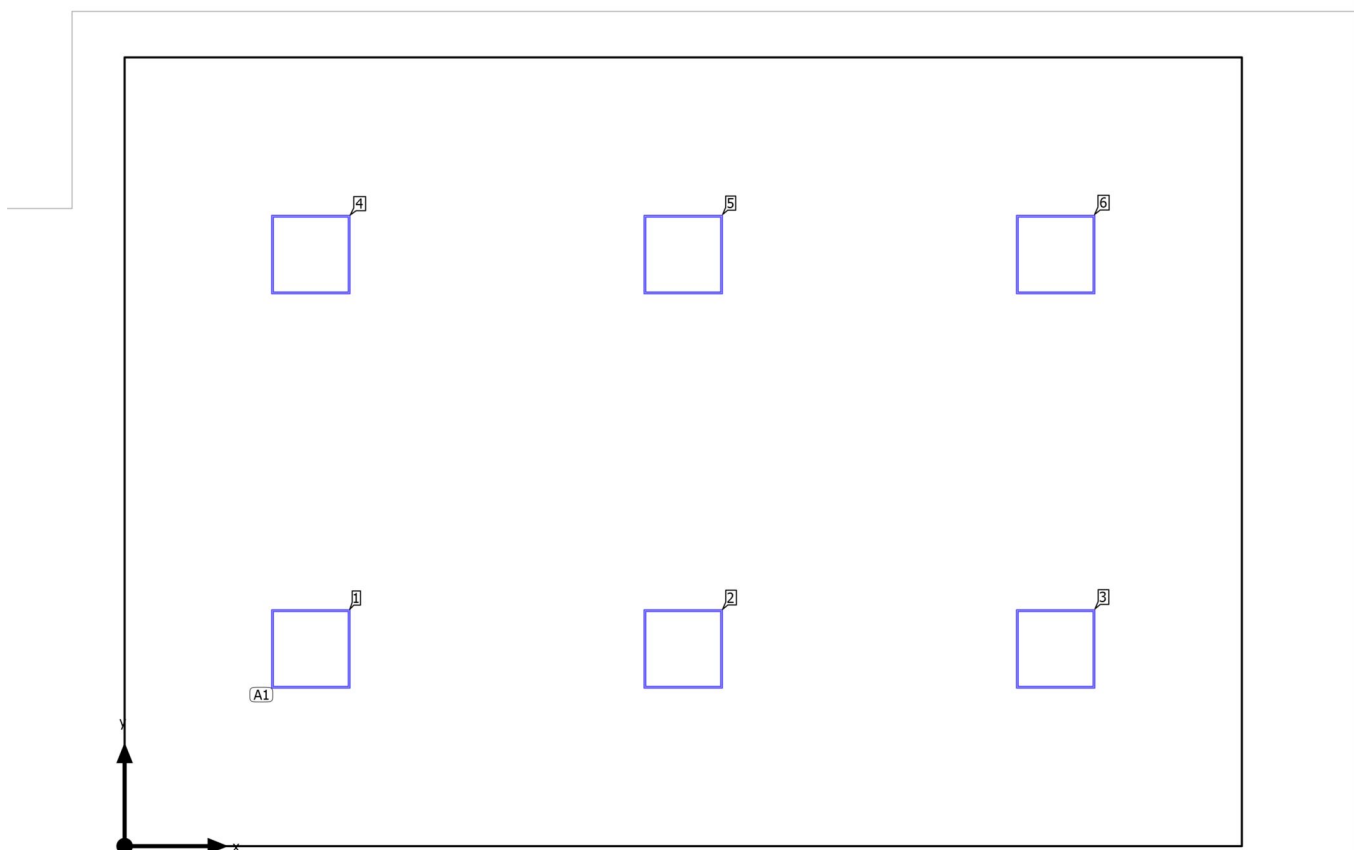
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	20	34.0 W	4061 lm	119.4 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.	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)	1.417 m / 1.500 m / 2.800 m	1.417 m	1.500 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.833 m	4.250 m	1.500 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.000 m	7.083 m	1.500 m	2.800 m	3
		1.417 m	4.500 m	2.800 m	4
Arrangement	A1	4.250 m	4.500 m	2.800 m	5
		7.083 m	4.500 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

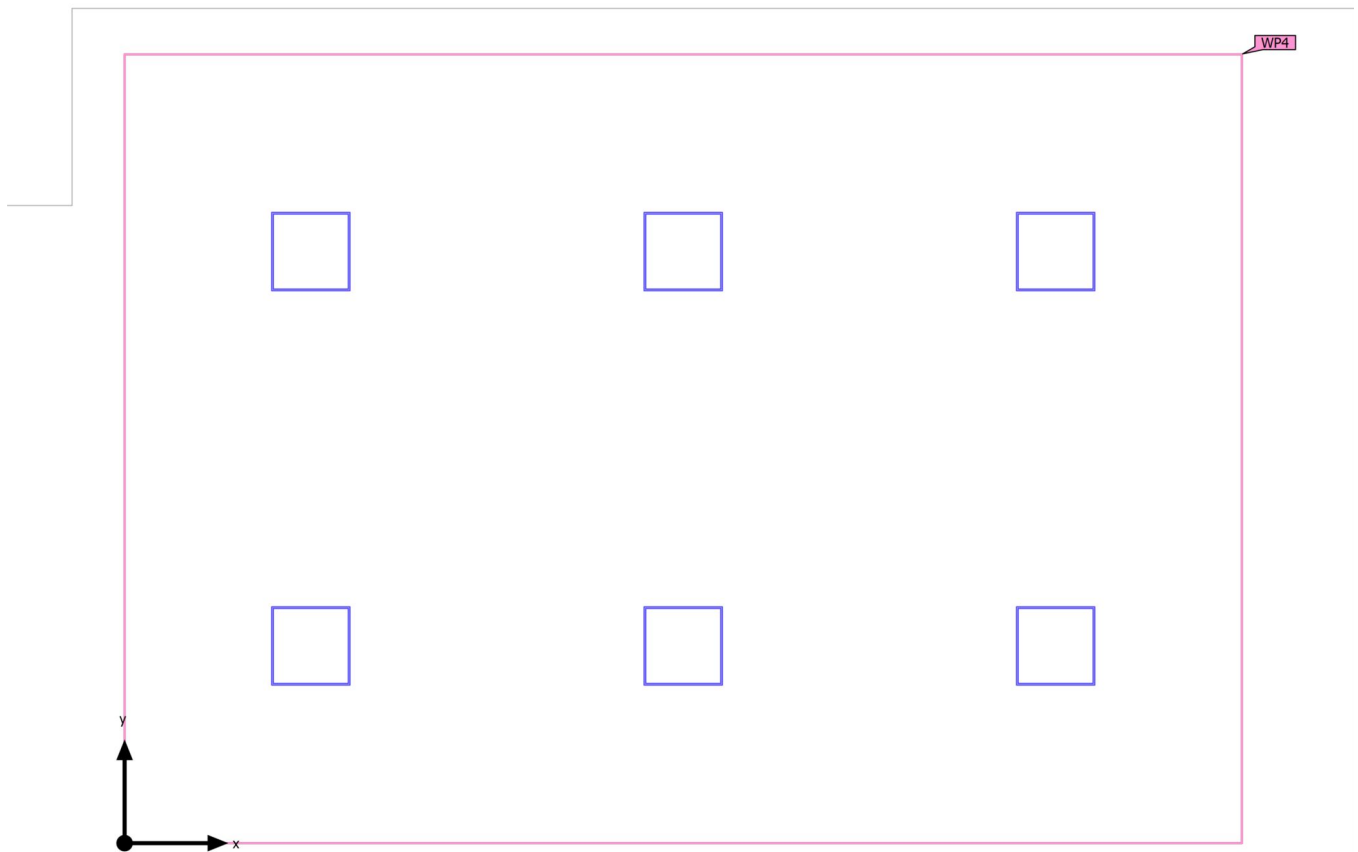
Luminaire list

Φ_{total} 24366 lm	P_{total} 204.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

Calculation objects

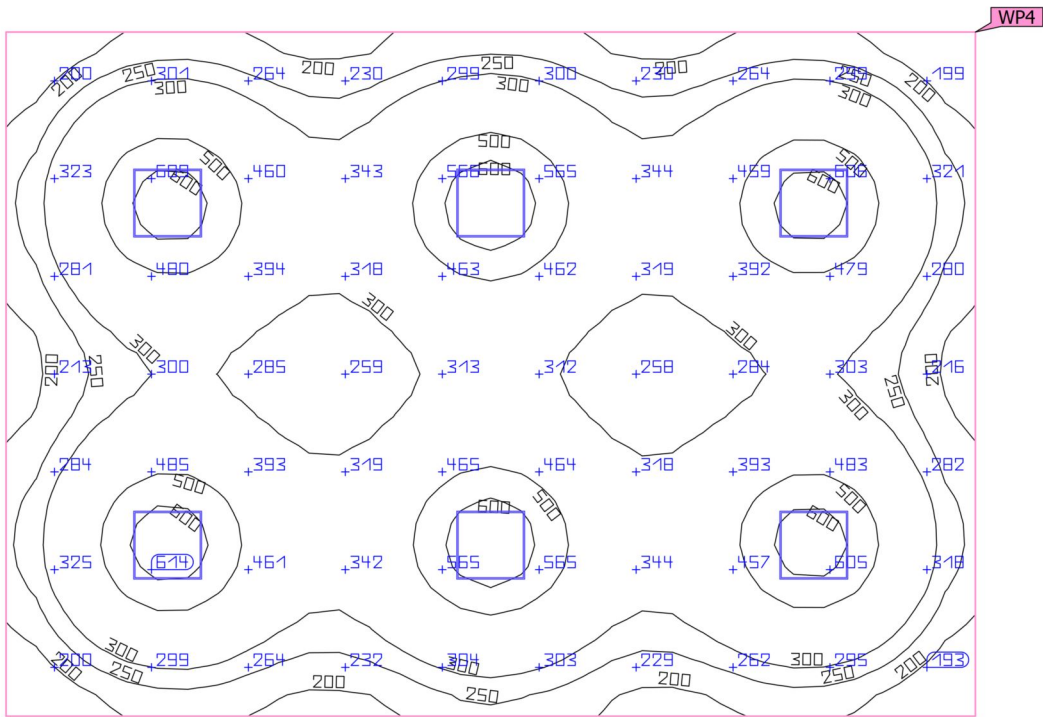
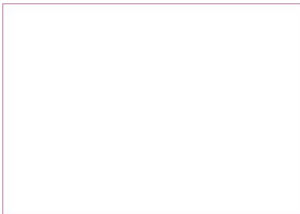
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	354 lx	135 lx	654 lx	0.38	0.21	WP4
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Klase/Classroom)

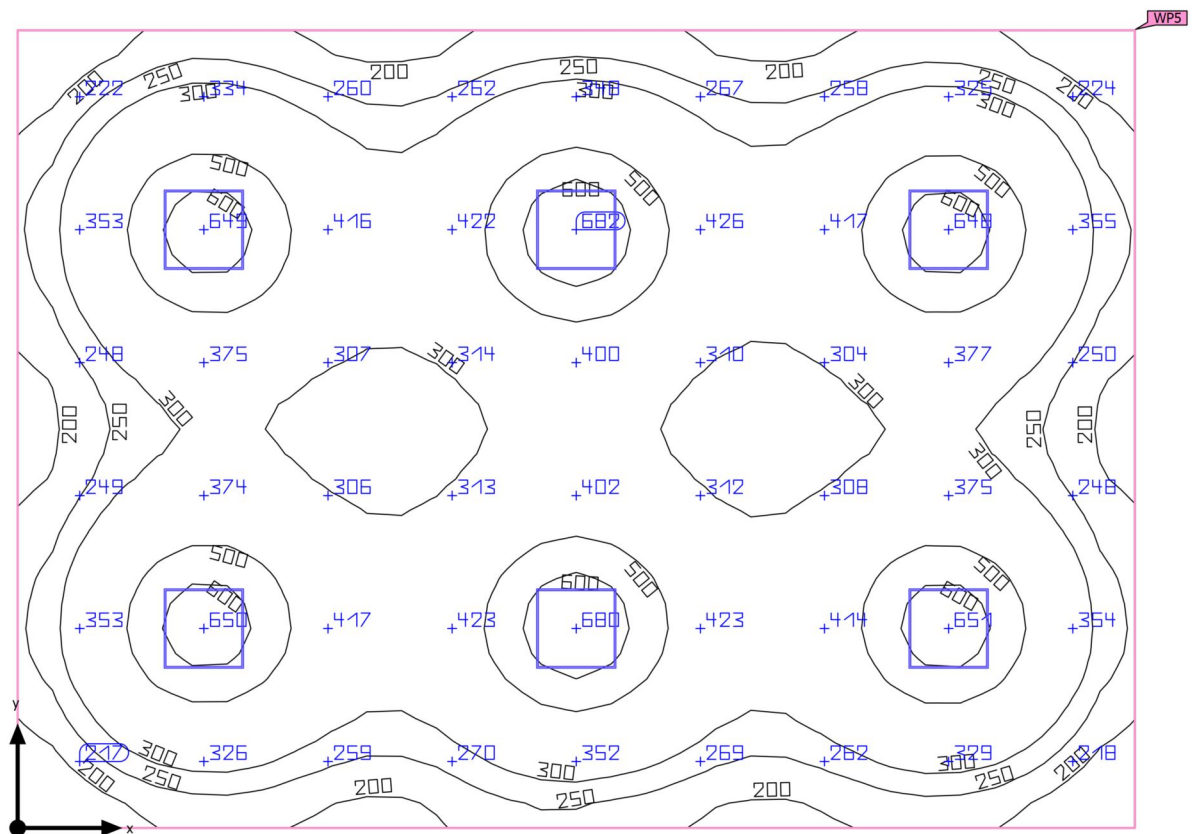


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	354 lx	135 lx	654 lx	0.38	0.21	WP4
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	50.40 m²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height _{working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	357 lx	$\geq 300 \text{ lx}$	✓	WP5
	g_1	0.39	≥ 0.60	✗	WP5
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	20	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 1800 kWh/a	✓	
Room	Lighting power density	4.05 W/m ²	–		
		1.13 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.000 m x 8.400 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

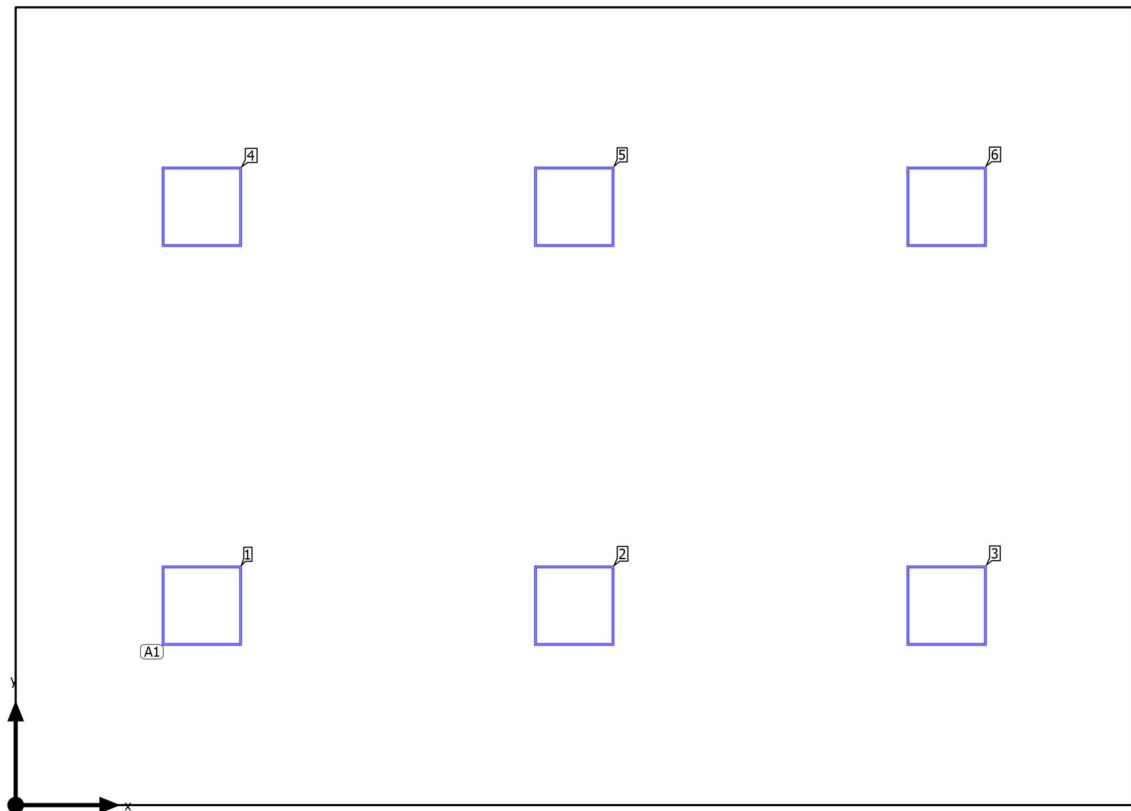
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	20	34.0 W	4061 lm	119.4 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.	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)	1.400 m / 1.500 m / 2.800 m	1.400 m	1.500 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.800 m	4.200 m	1.500 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.000 m	7.000 m	1.500 m	2.800 m	3
		1.400 m	4.500 m	2.800 m	4
Arrangement	A1	4.200 m	4.500 m	2.800 m	5
		7.000 m	4.500 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

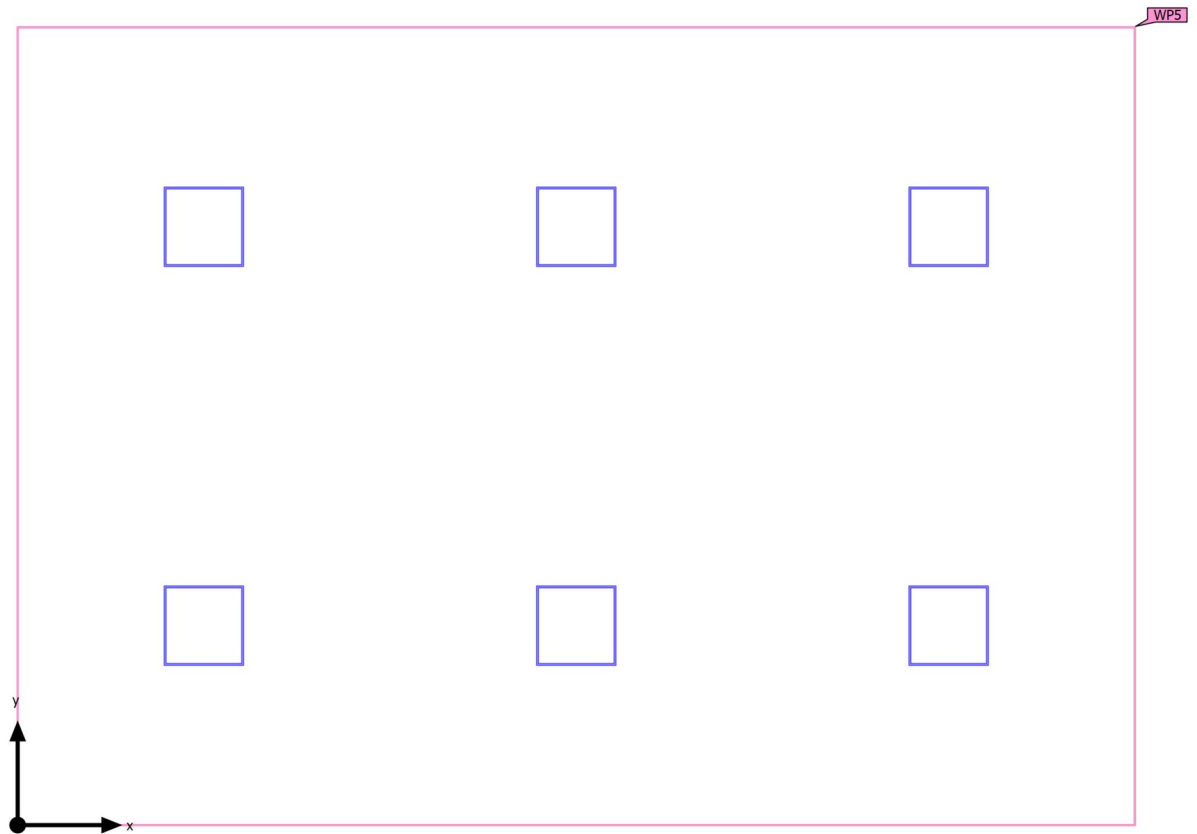
Luminaire list

Φ_{total} 24366 lm	P_{total} 204.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

Calculation objects

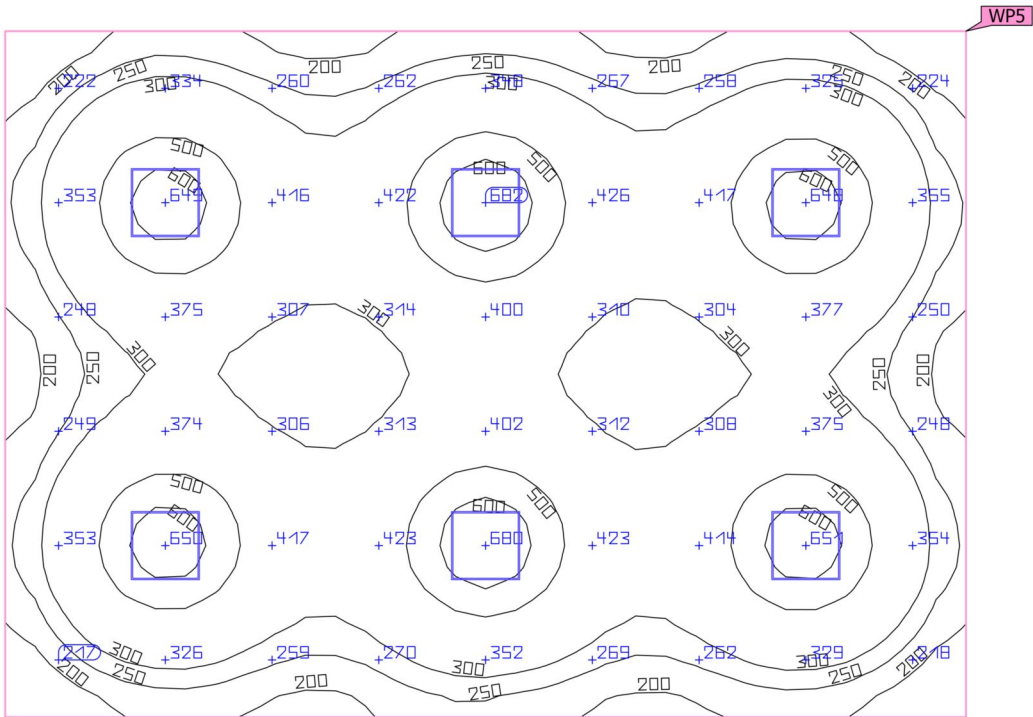
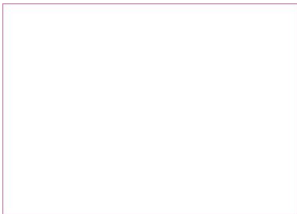
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	357 lx	140 lx	657 lx	0.39	0.21	WP5
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Klase/Classroom)

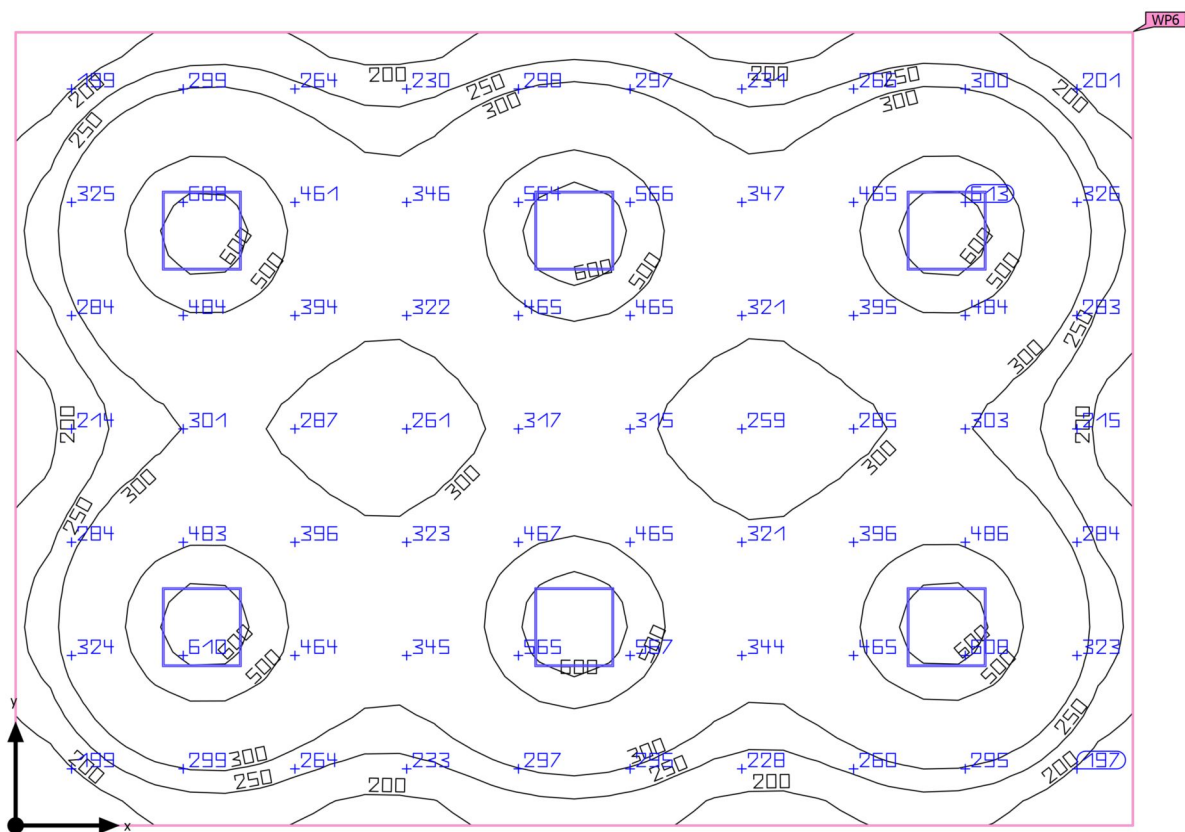


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	357 lx	140 lx	657 lx	0.39	0.21	WP5
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	50.70 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	355 lx	≥ 300 lx	✓	WP6
	g_1	0.39	≥ 0.60	✗	WP6
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	20	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 1800 kWh/a	✓	
Room	Lighting power density	4.02 W/m ²	–		
		1.13 W/m ² /100 lx	–		

(1) Based on a rectangular space of 8.450 m x 6.000 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

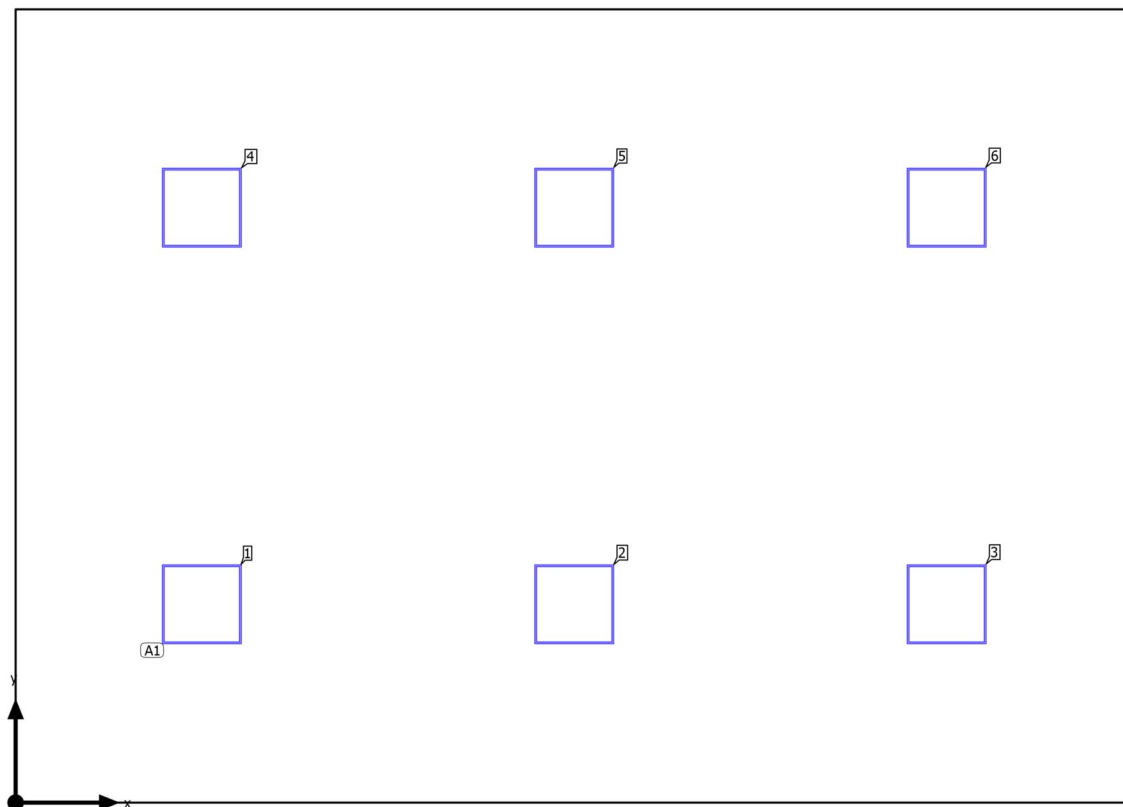
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	20	34.0 W	4061 lm	119.4 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.	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)	1.408 m / 1.500 m / 2.800 m	1.408 m	1.500 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.817 m	4.225 m	1.500 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.000 m	7.042 m	1.500 m	2.800 m	3
Arrangement	A1	1.408 m	4.500 m	2.800 m	4
		4.225 m	4.500 m	2.800 m	5
		7.042 m	4.500 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

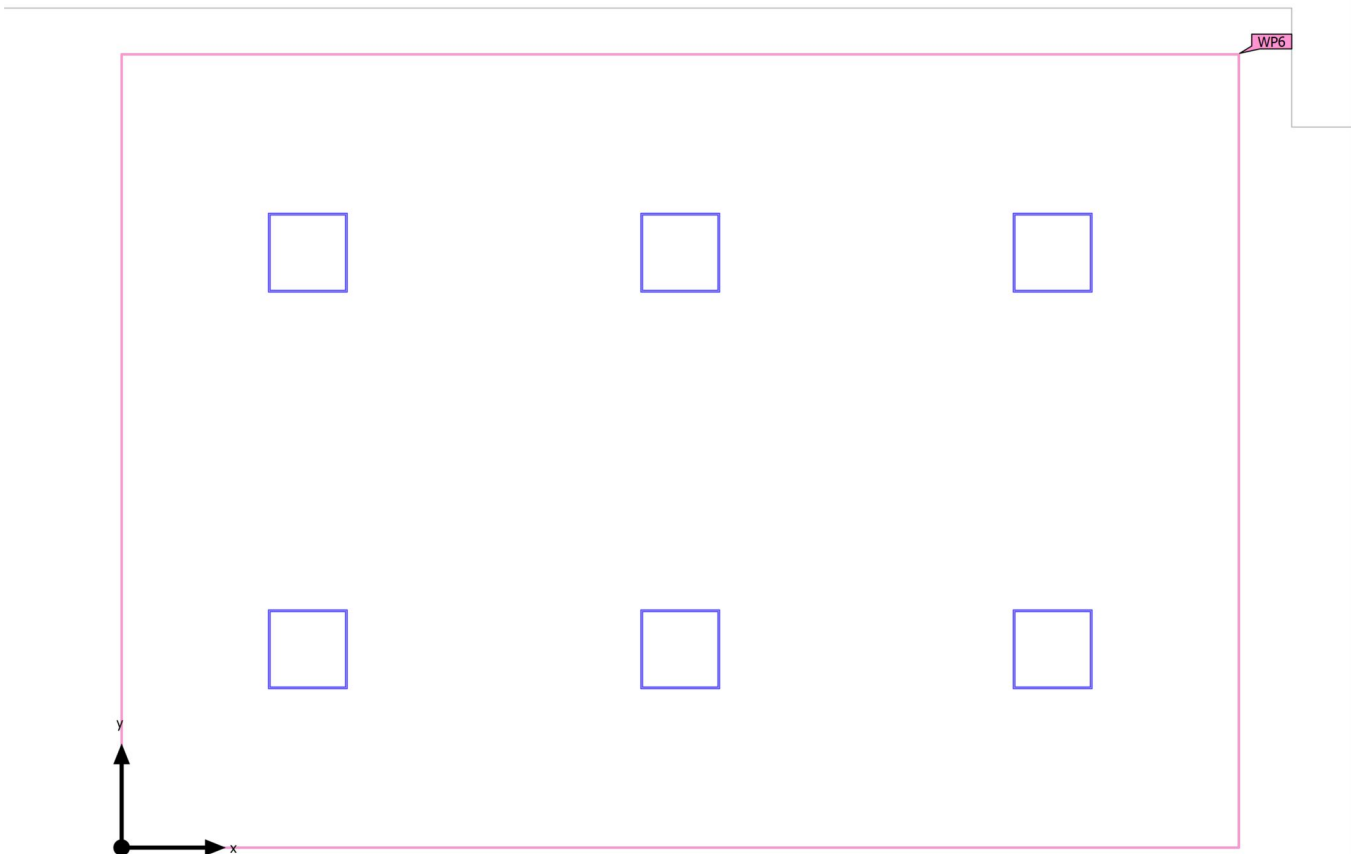
Luminaire list

Φ_{total} 24366 lm	P_{total} 204.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

Calculation objects

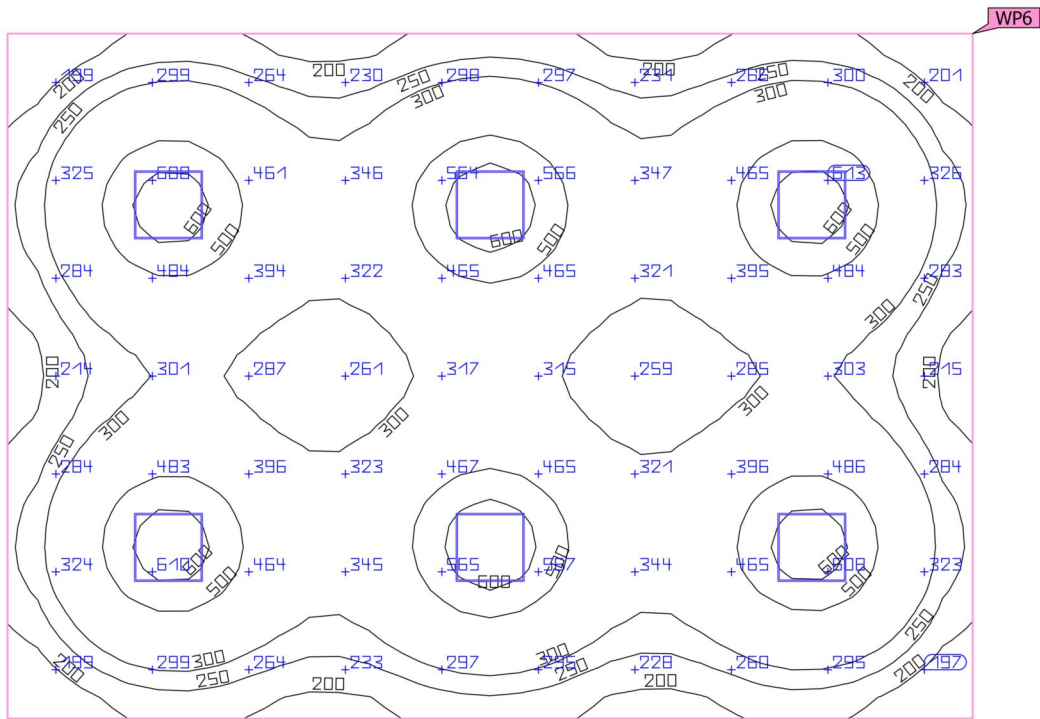
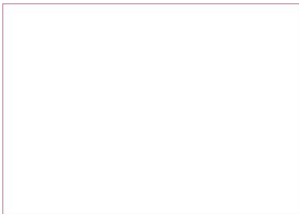
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	355 lx	138 lx	655 lx	0.39	0.21	WP6
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Klase/Classroom)

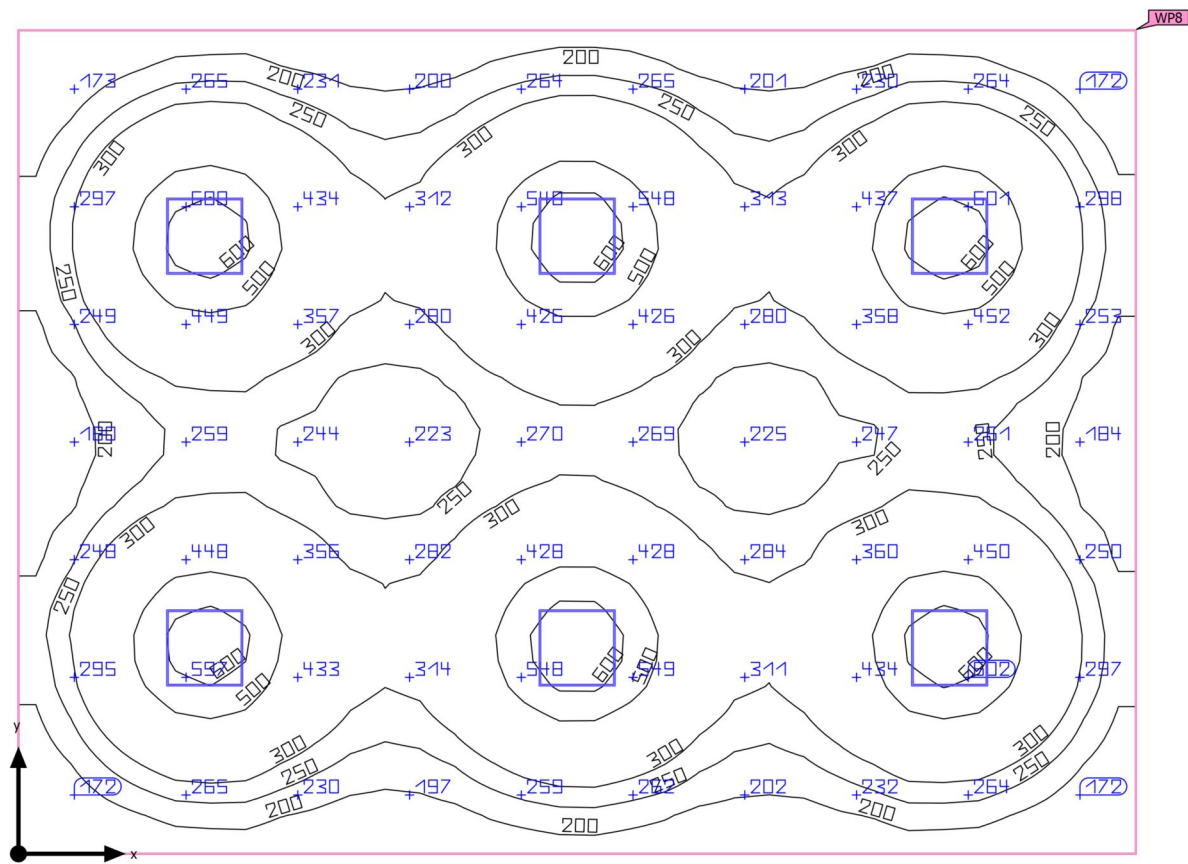


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	355 lx	138 lx	655 lx	0.39	0.21	WP6
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	56.44 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	324 lx	$\geq 300 \text{ lx}$	✓	WP8
	g_1	0.35	≥ 0.60	✗	WP8
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	21	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 2000 kWh/a	✓	
Room	Lighting power density	3.61 W/m ²	–		
		1.12 W/m ² /100 lx	–		

(1) Based on a rectangular space of 8.750 m x 6.450 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

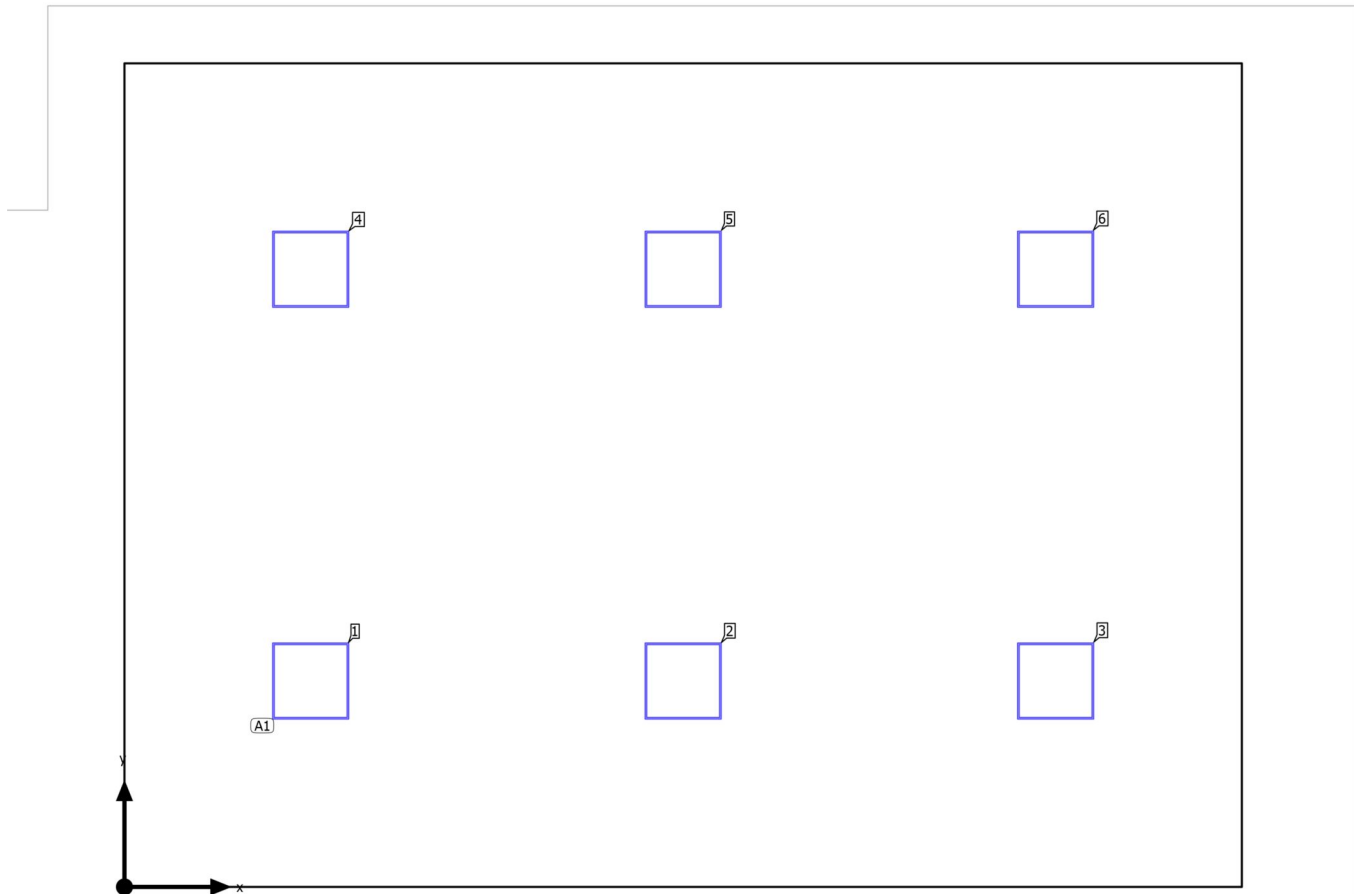
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	21	34.0 W	4061 lm	119.4 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.	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)	1.458 m / 1.613 m / 2.800 m	1.458 m	1.613 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.917 m	4.375 m	1.613 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.225 m	7.292 m	1.613 m	2.800 m	3
Arrangement	A1	1.458 m	4.837 m	2.800 m	4
		4.375 m	4.837 m	2.800 m	5
		7.292 m	4.837 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

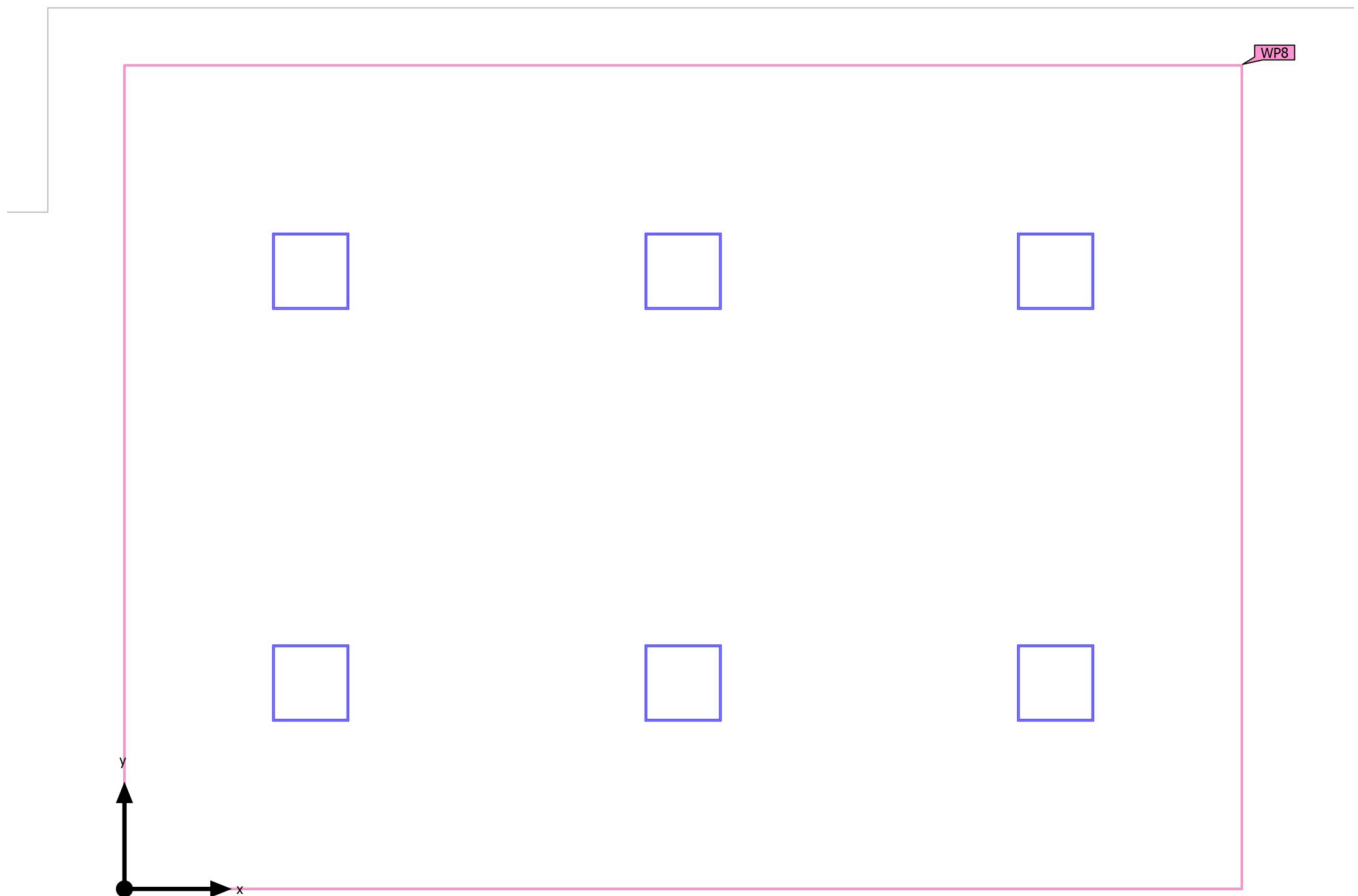
Luminaire list

Φ_{total} 24366 lm	P_{total} 204.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

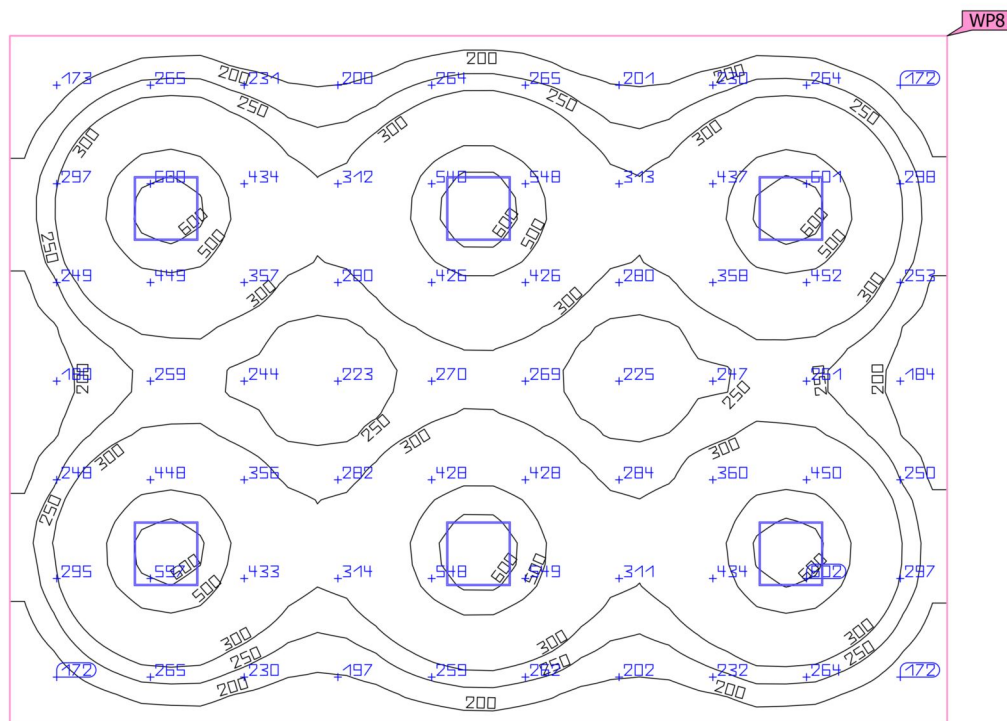
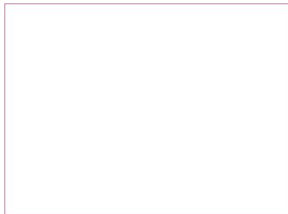
Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	324 lx	115 lx	665 lx	0.35	0.17	WP8
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

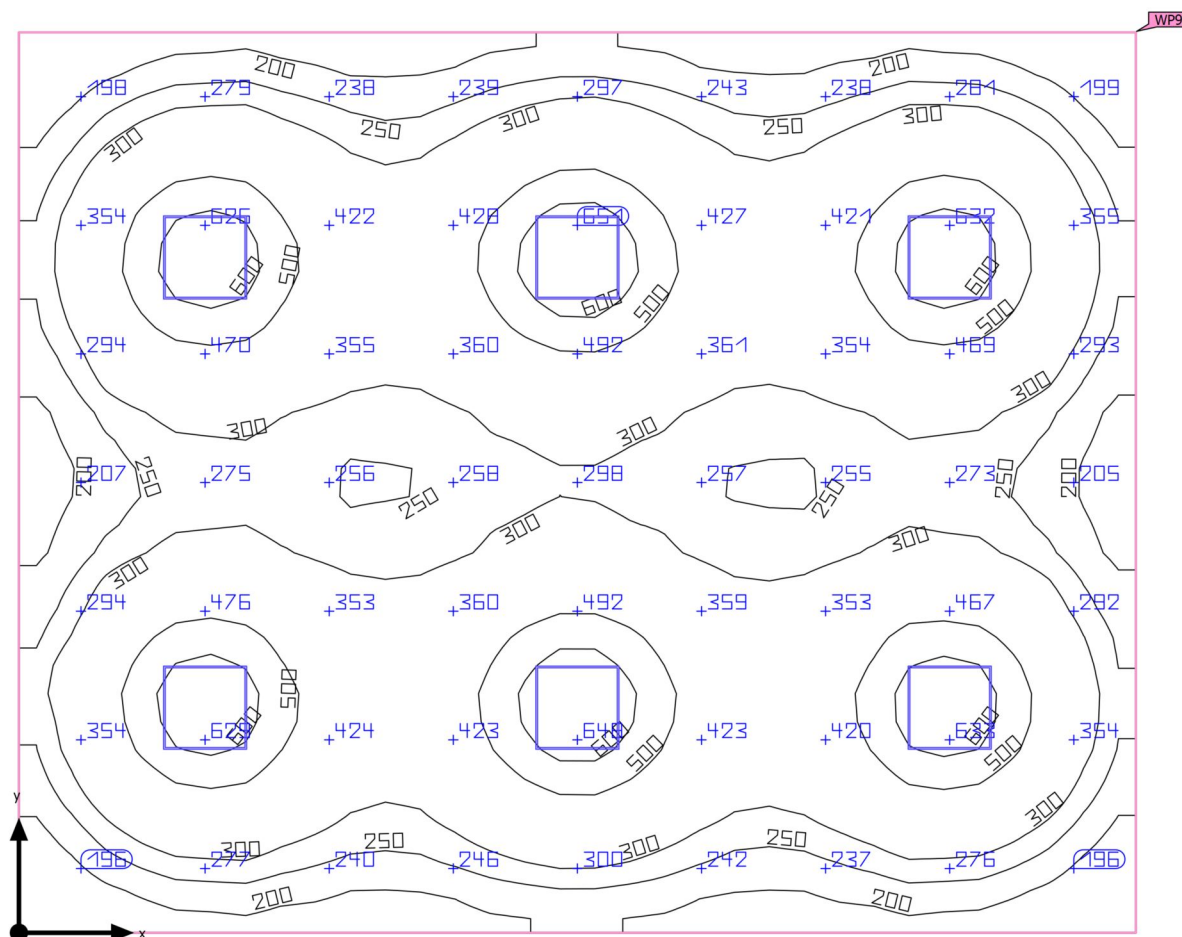
Building 1 · Story 1 · Klase/Classroom (Light scene 1)

Working plane (Klase/Classroom)

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	324 lx	115 lx	665 lx	0.35	0.17	WP8
Perpendicular illuminance (adaptive)	≥ 300 lx			≥ 0.60		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary

Ground area	51.60 m ²
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Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
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Light loss factor	0.80 (fixed)
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Clearance height	2.800 m
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Mounting height	2.800 m
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Height _{Working plane}	0.800 m
---------------------------------	---------

Wall zone _{Working plane}	0.000 m
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Building 1 · Story 1 · Klase/Classroom (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	351 lx	≥ 300 lx	✓	WP9
	g_1	0.37	≥ 0.60	✗	WP9
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	21	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 1850 kWh/a	✓	
Room	Lighting power density	3.95 W/m ²	–		
		1.13 W/m ² /100 lx	–		

(1) Based on a rectangular space of 8.000 m x 6.450 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

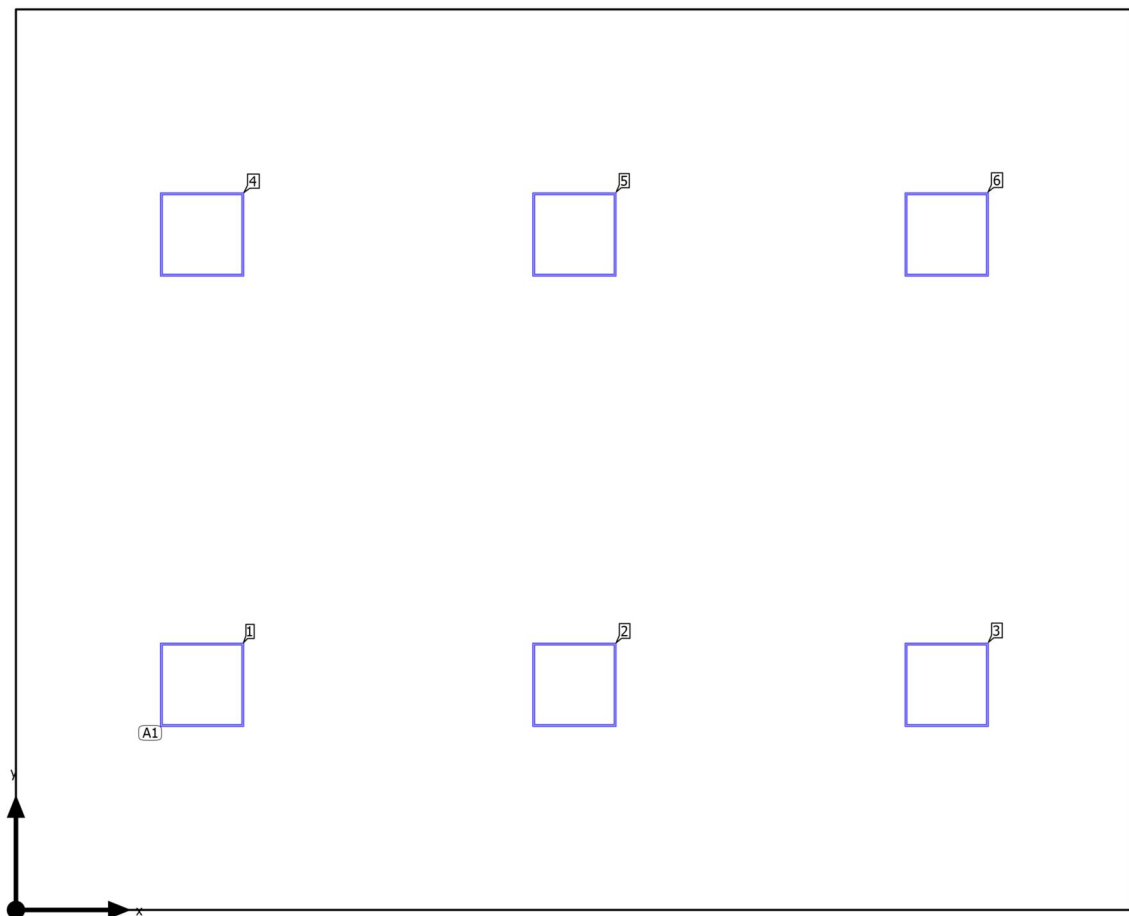
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	21	34.0 W	4061 lm	119.4 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.	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)	1.333 m / 1.613 m / 2.800 m	1.333 m	1.613 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.667 m	4.000 m	1.613 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.225 m	6.667 m	1.613 m	2.800 m	3
Arrangement	A1	1.333 m	4.837 m	2.800 m	4
		4.000 m	4.837 m	2.800 m	5
		6.667 m	4.837 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

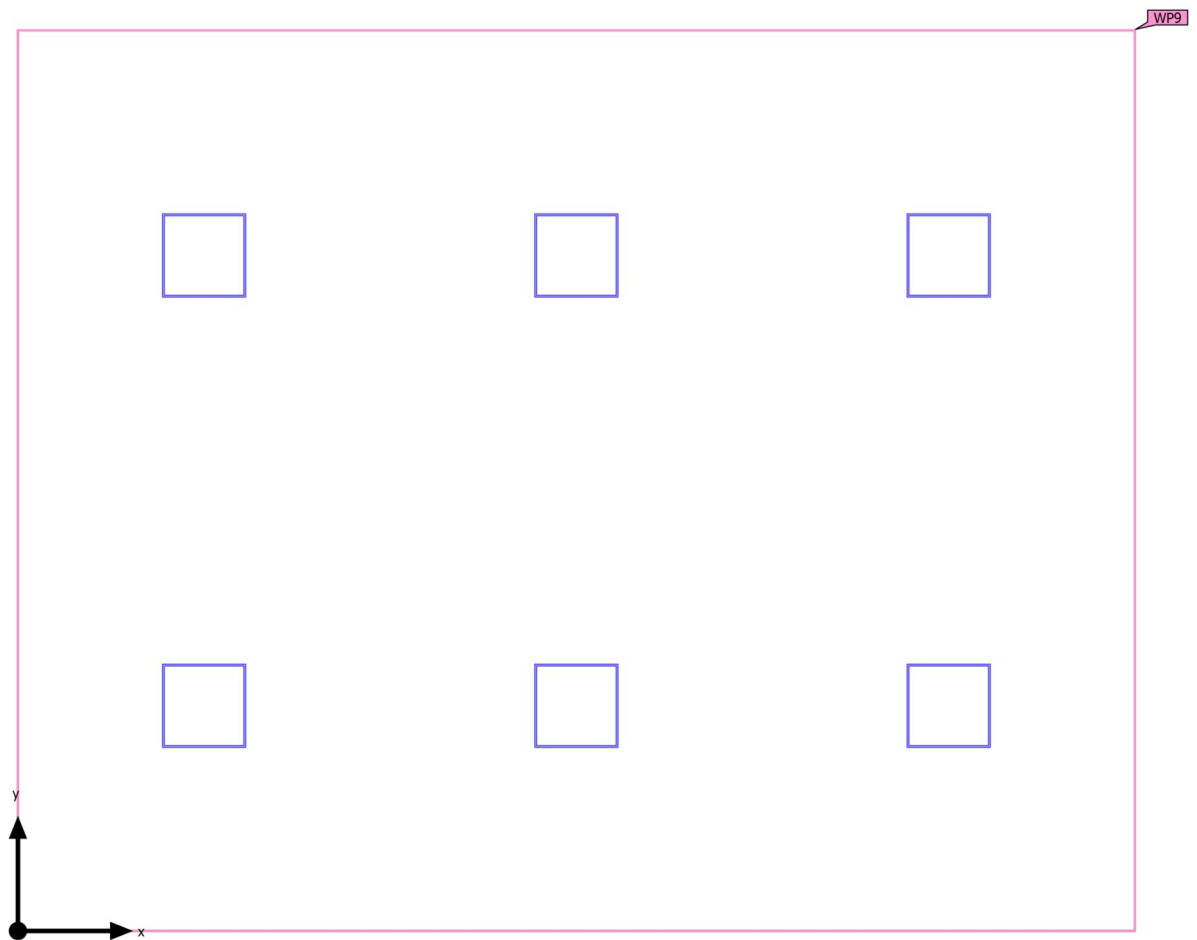
Luminaire list

Φ_{total} 24366 lm	P_{total} 204.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

Calculation objects

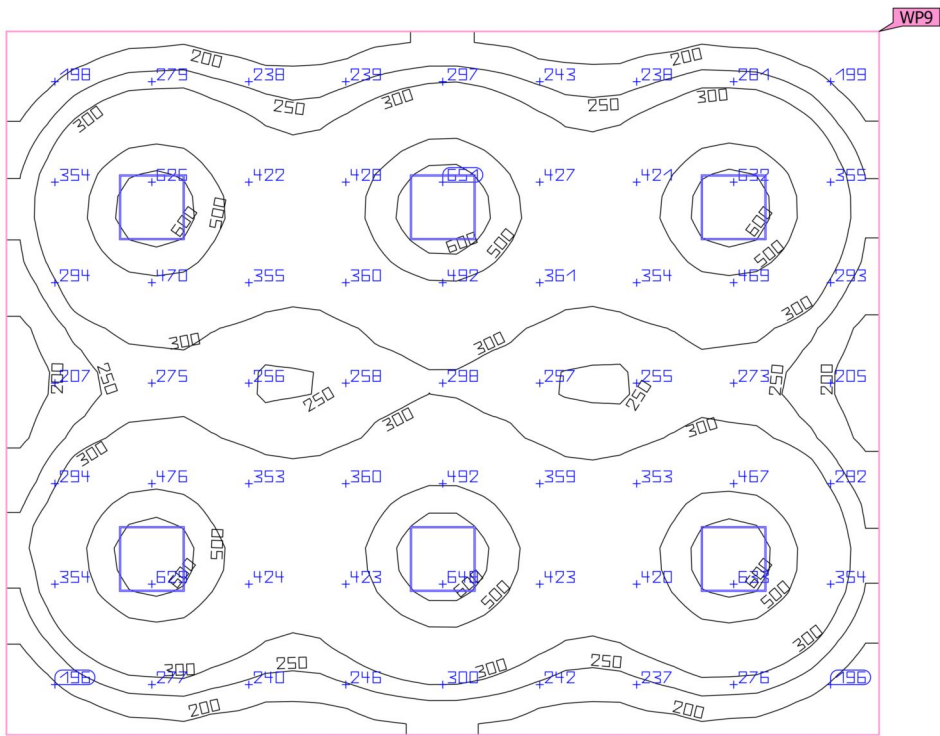
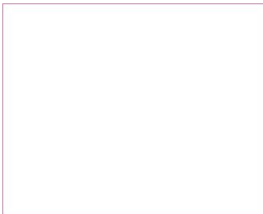
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	351 lx	129 lx	687 lx	0.37	0.19	WP9
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Klase/Classroom)

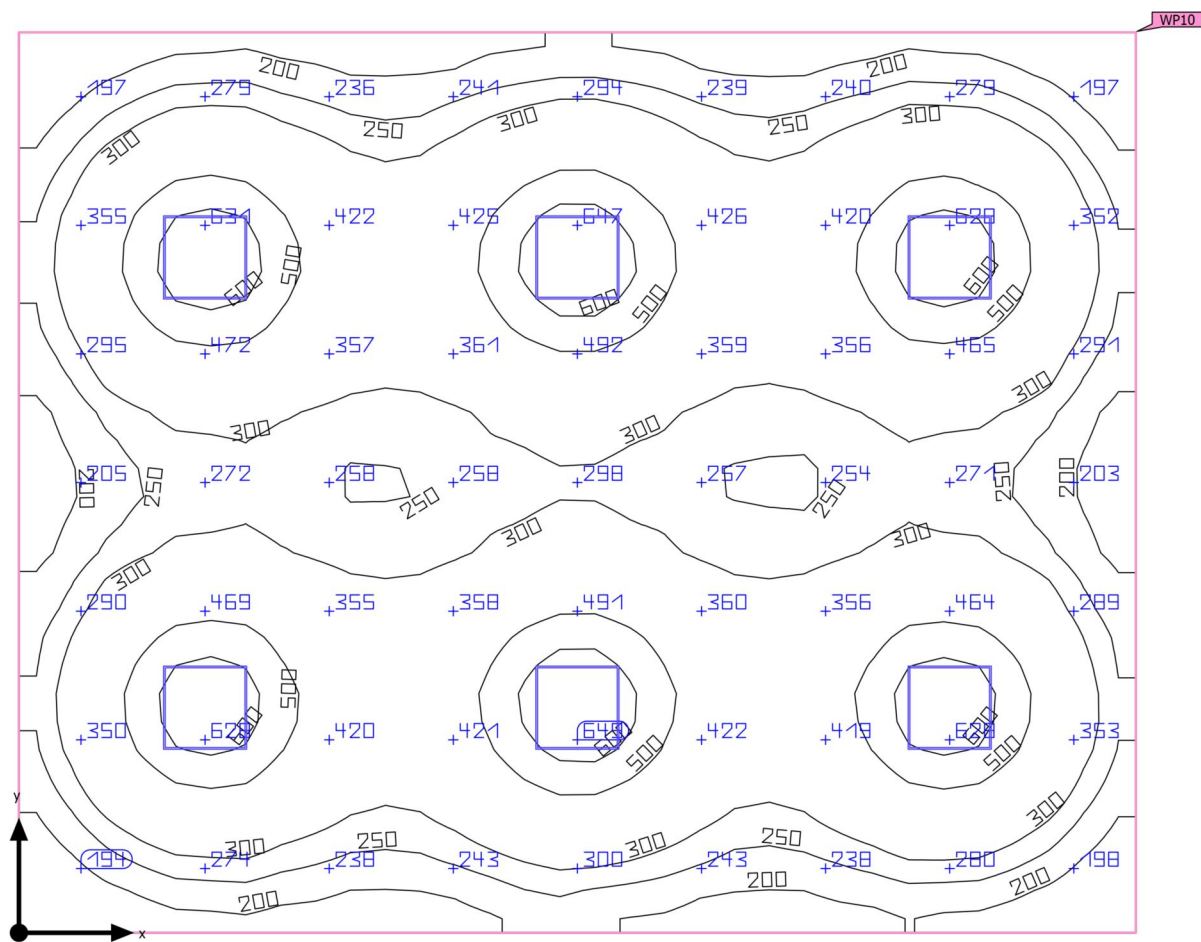


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	351 lx	129 lx	687 lx	0.37	0.19	WP9
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	51.60 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	351 lx	≥ 300 lx	✓	WP10
	g_1	0.36	≥ 0.60	✗	WP10
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	21	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 1850 kWh/a	✓	
Room	Lighting power density	3.95 W/m ²	–		
		1.13 W/m ² /100 lx	–		

(1) Based on a rectangular space of 8.000 m x 6.450 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

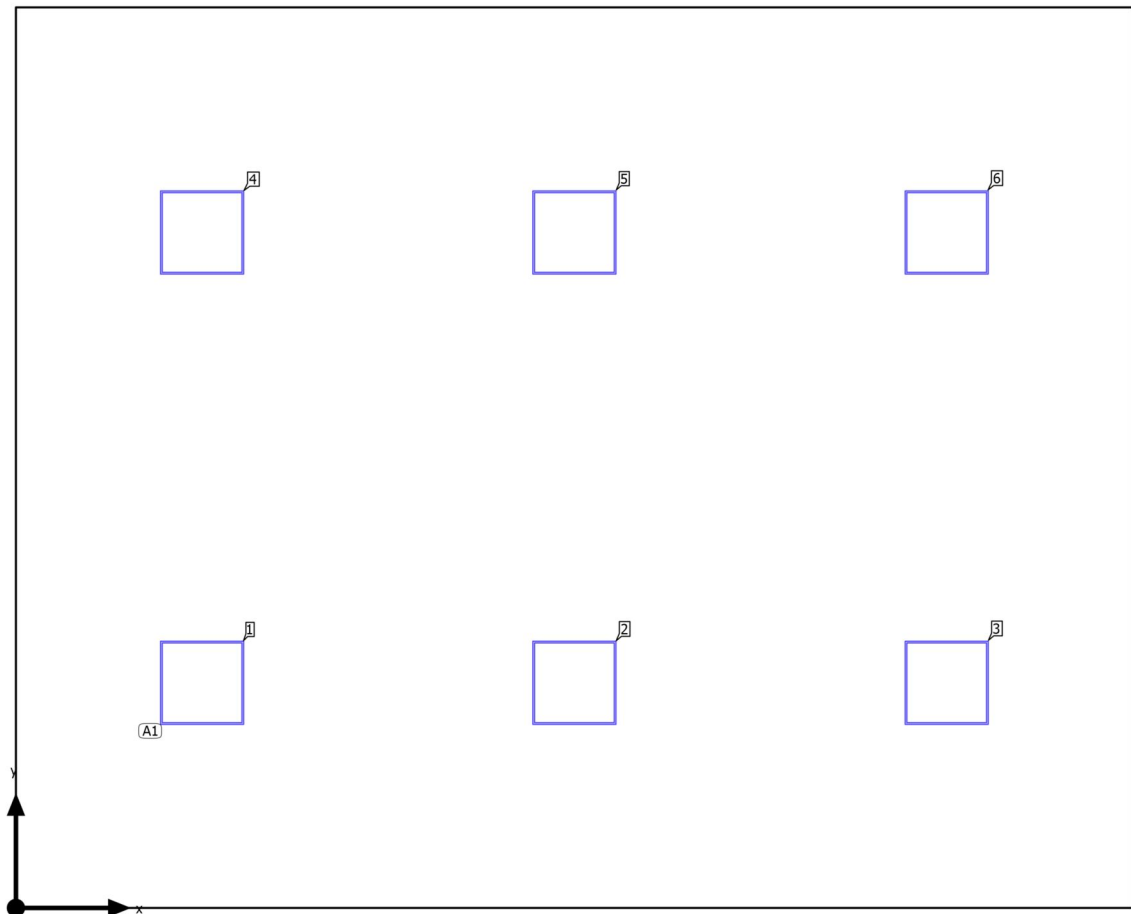
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	21	34.0 W	4061 lm	119.4 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.	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)	1.333 m / 1.613 m / 2.800 m	1.333 m	1.613 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.667 m	4.000 m	1.613 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.225 m	6.667 m	1.613 m	2.800 m	3
Arrangement	A1	1.333 m	4.837 m	2.800 m	4
		4.000 m	4.837 m	2.800 m	5
		6.667 m	4.837 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

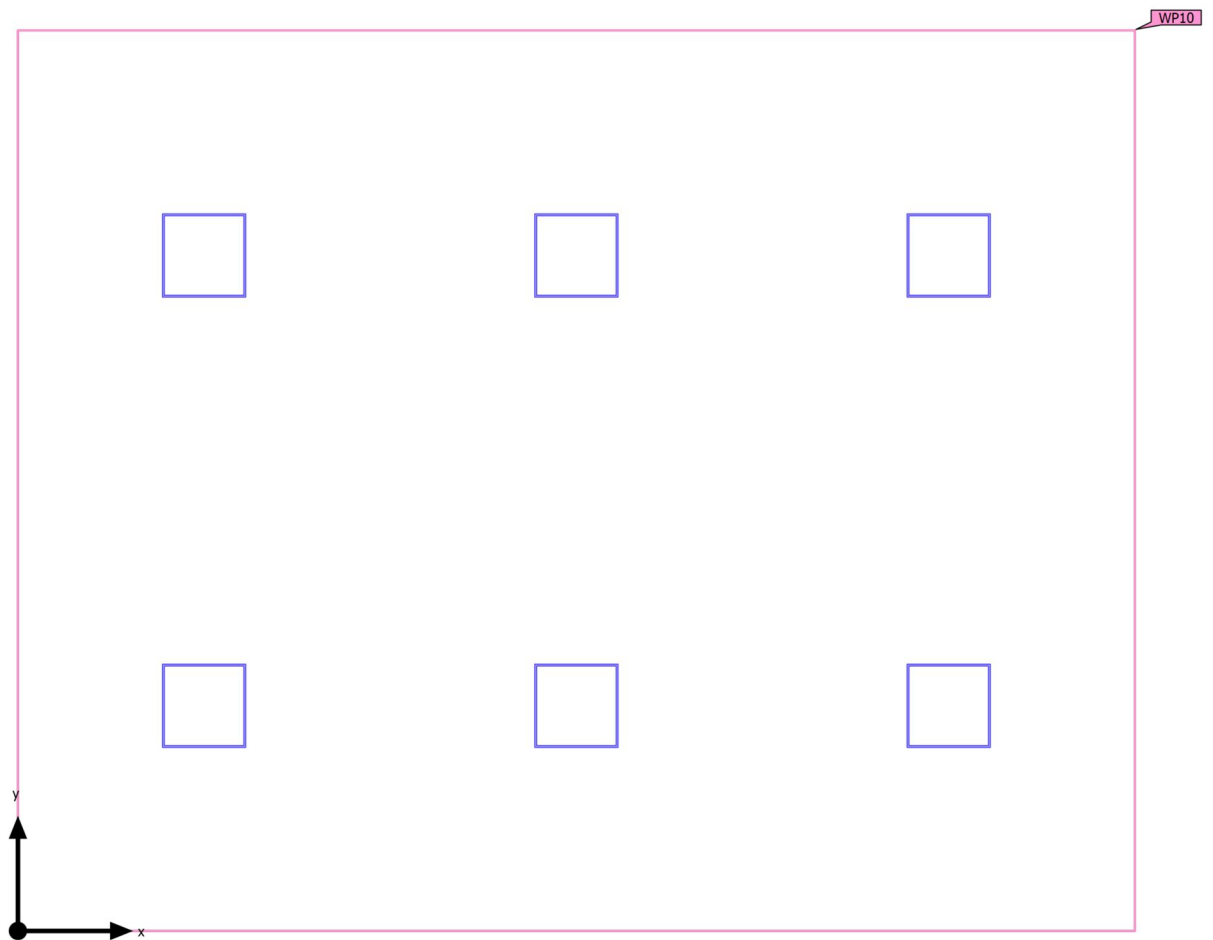
Luminaire list

Φ_{total} 24366 lm	P_{total} 204.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

Calculation objects

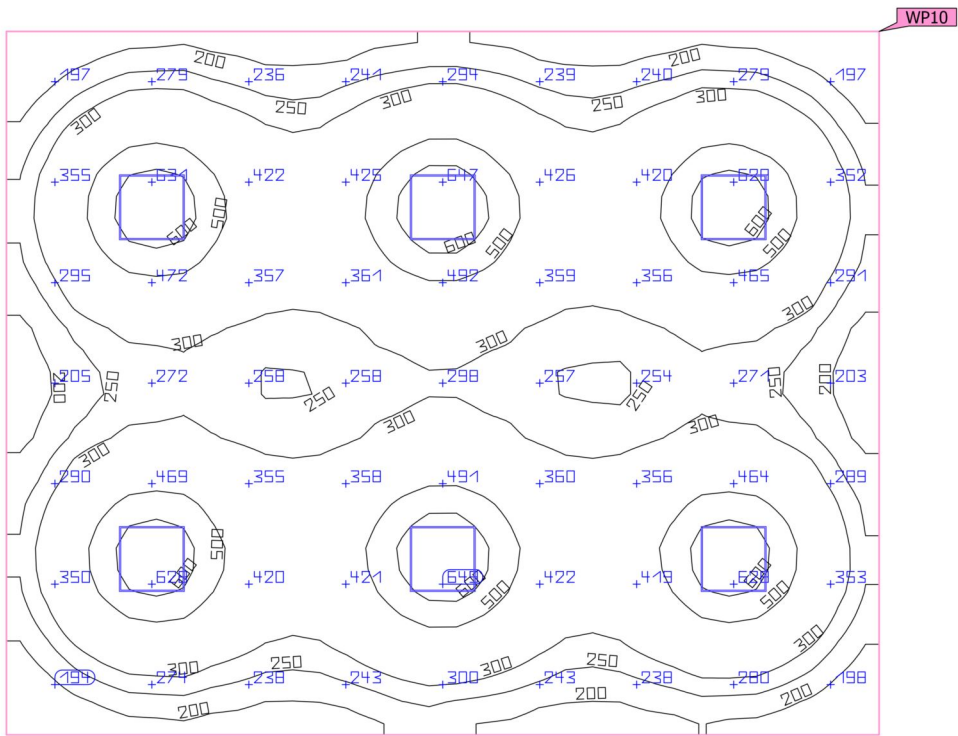
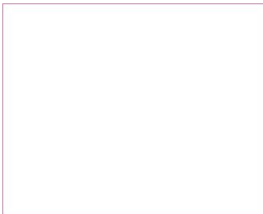
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	351 lx	127 lx	684 lx	0.36	0.19	WP10
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

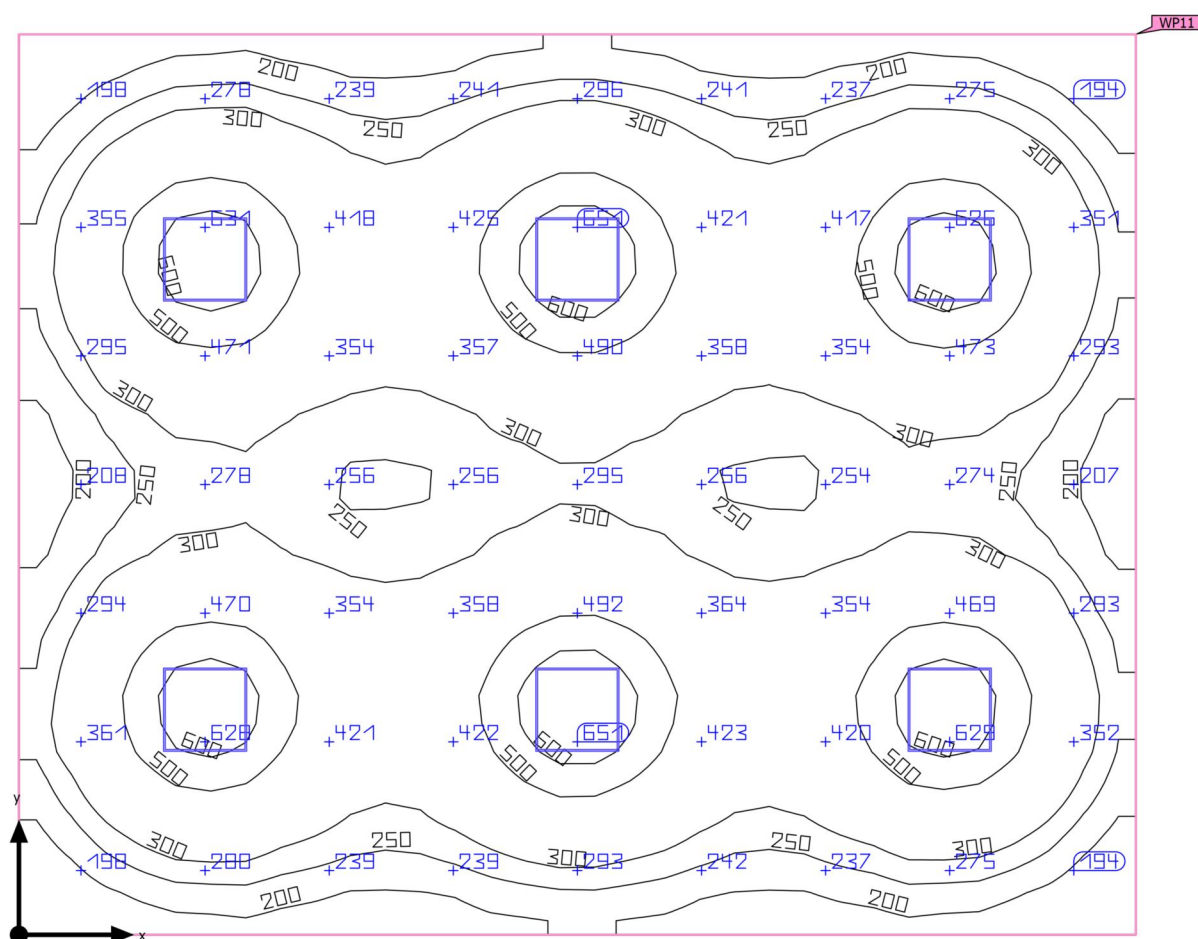
Working plane (Klase/Classroom)



Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	351 lx	127 lx	684 lx	0.36	0.19	WP10
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary

Ground area	51.60 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	351 lx	≥ 300 lx	✓	WP11
	g_1	0.36	≥ 0.60	✗	WP11
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	21	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 1850 kWh/a	✓	
Room	Lighting power density	3.95 W/m ²	–		
		1.13 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.450 m x 8.000 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

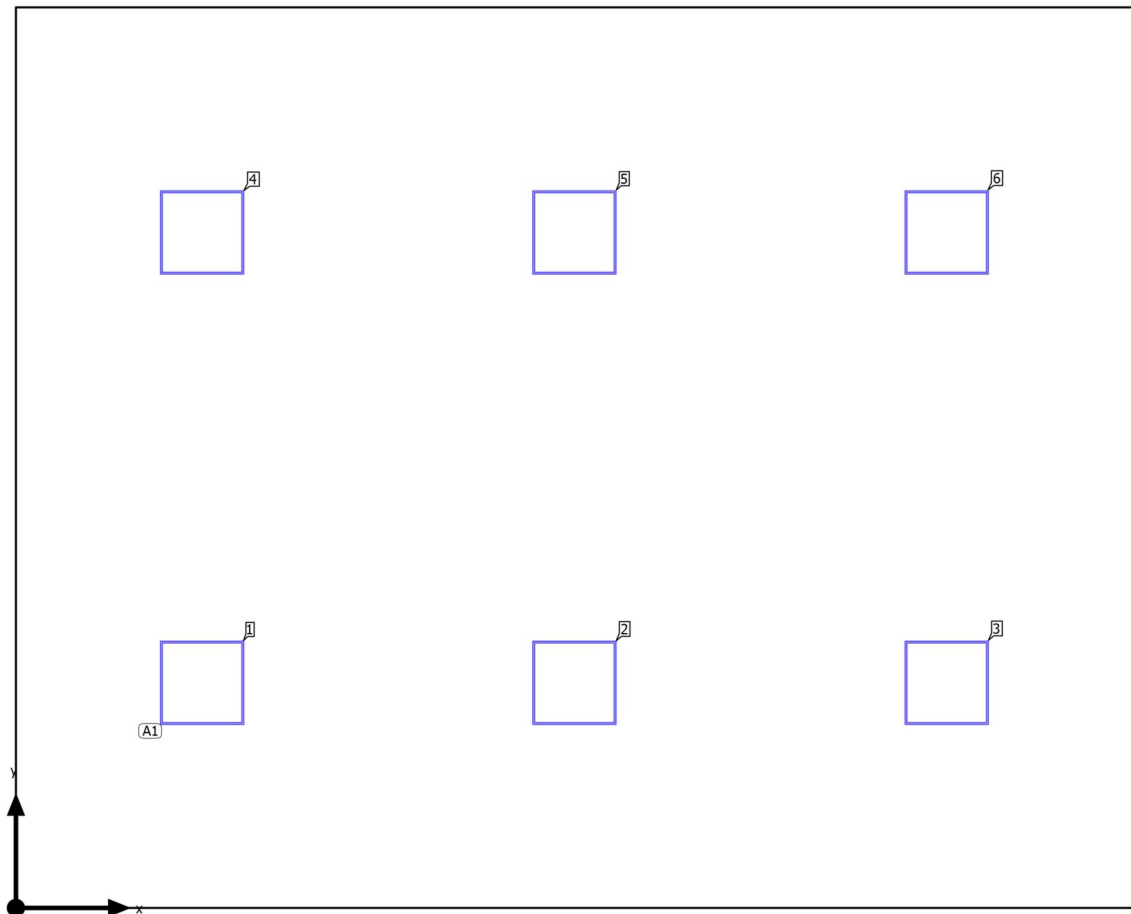
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	21	34.0 W	4061 lm	119.4 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.	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)	1.333 m / 1.613 m / 2.800 m	1.333 m	1.613 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.667 m	4.000 m	1.613 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.225 m	6.667 m	1.613 m	2.800 m	3
Arrangement	A1	1.333 m	4.837 m	2.800 m	4
		4.000 m	4.837 m	2.800 m	5
		6.667 m	4.837 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

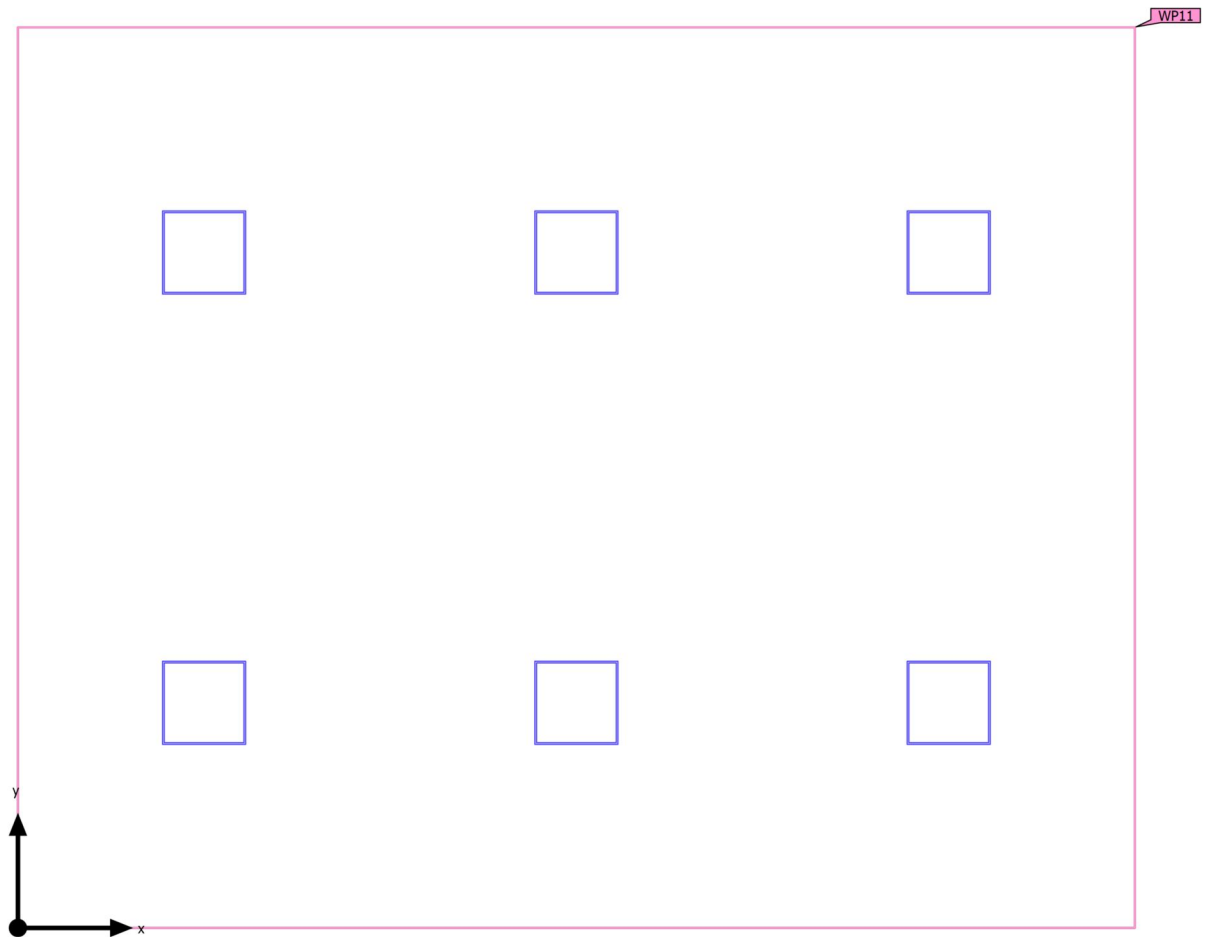
Luminaire list

Φ_{total} 24366 lm	P_{total} 204.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

Calculation objects

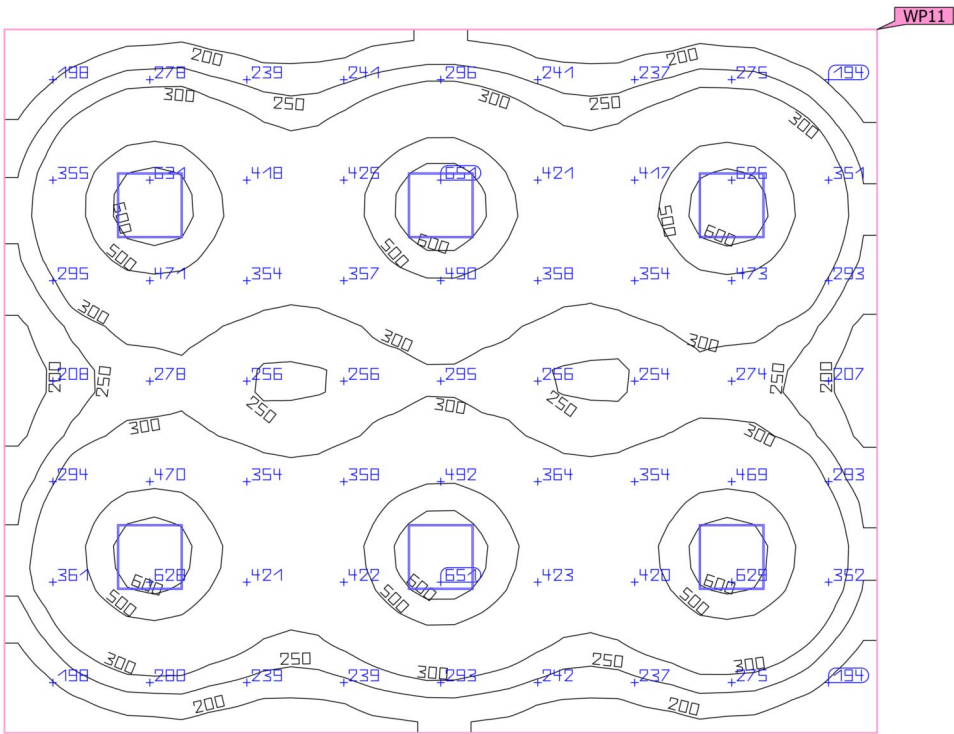
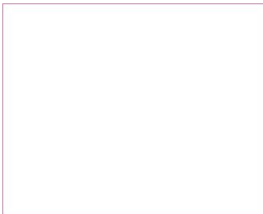
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	351 lx	127 lx	686 lx	0.36	0.19	WP11
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Klase/Classroom)

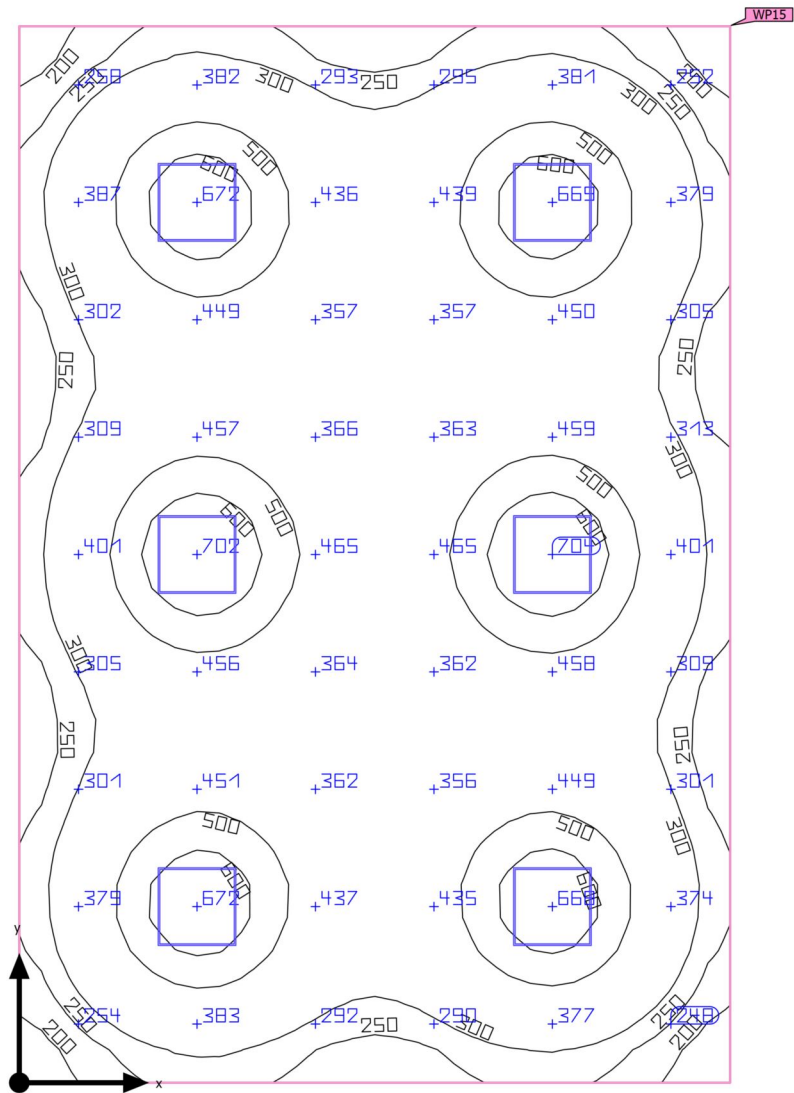


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	351 lx	127 lx	686 lx	0.36	0.19	WP11
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	44.14 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	399 lx	$\geq 300 \text{ lx}$	✓	WP15
	g_1	0.41	≥ 0.60	✗	WP15
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	20	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 1550 kWh/a	✓	
Room	Lighting power density	4.62 W/m ²	–		
		1.16 W/m ² /100 lx	–		

(1) Based on a rectangular space of 8.100 m x 5.450 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

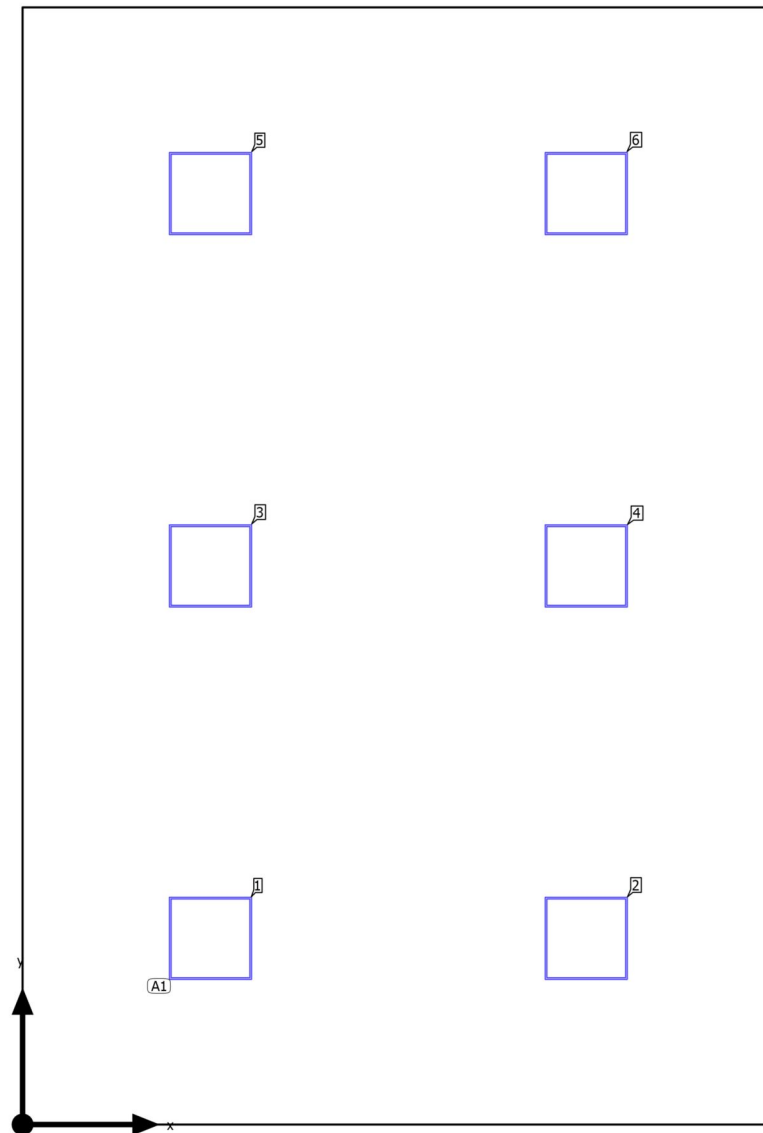
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	20	34.0 W	4061 lm	119.4 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.	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)	1.362 m / 1.350 m / 2.800 m	1.362 m	1.350 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.725 m	4.087 m	1.350 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.700 m	1.362 m	4.050 m	2.800 m	3
		4.087 m	4.050 m	2.800 m	4
Arrangement	A1	1.362 m	6.750 m	2.800 m	5
		4.087 m	6.750 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

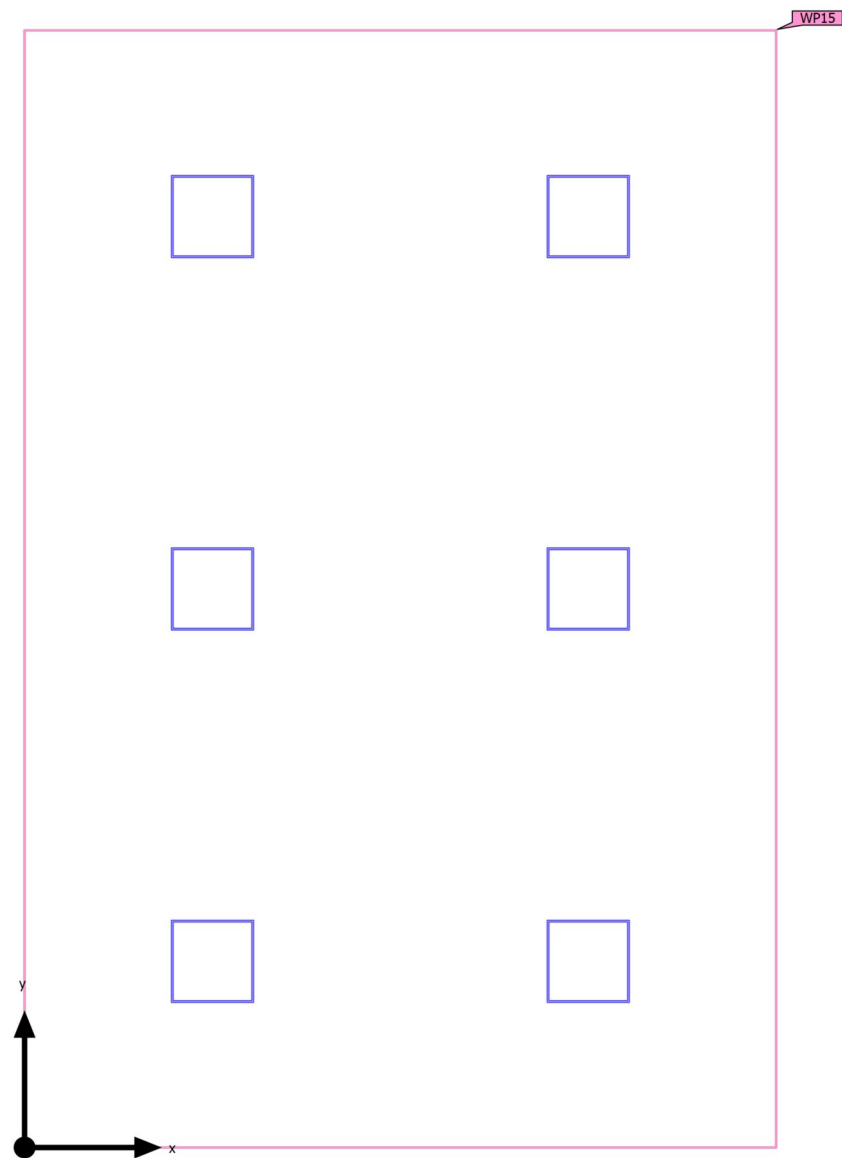
Luminaire list

Φ_{total} 24366 lm	P_{total} 204.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

Calculation objects

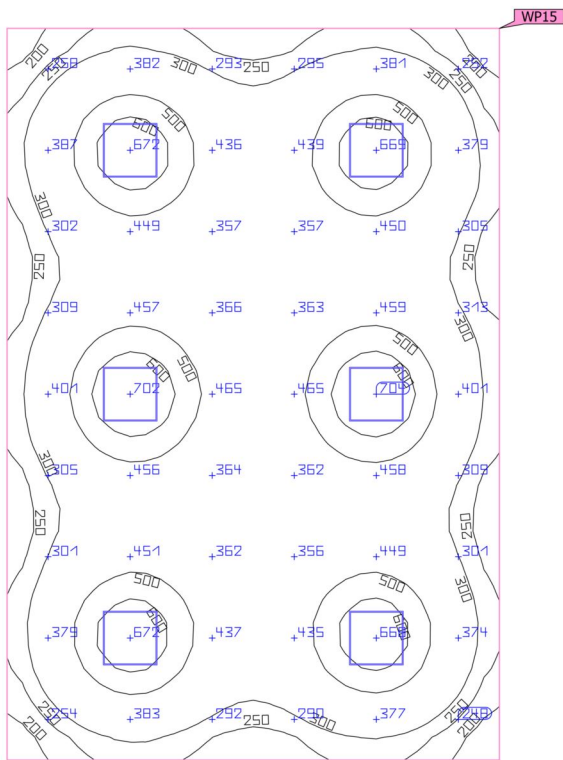
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	399 lx	163 lx	681 lx	0.41	0.24	WP15
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Klase/Classroom)

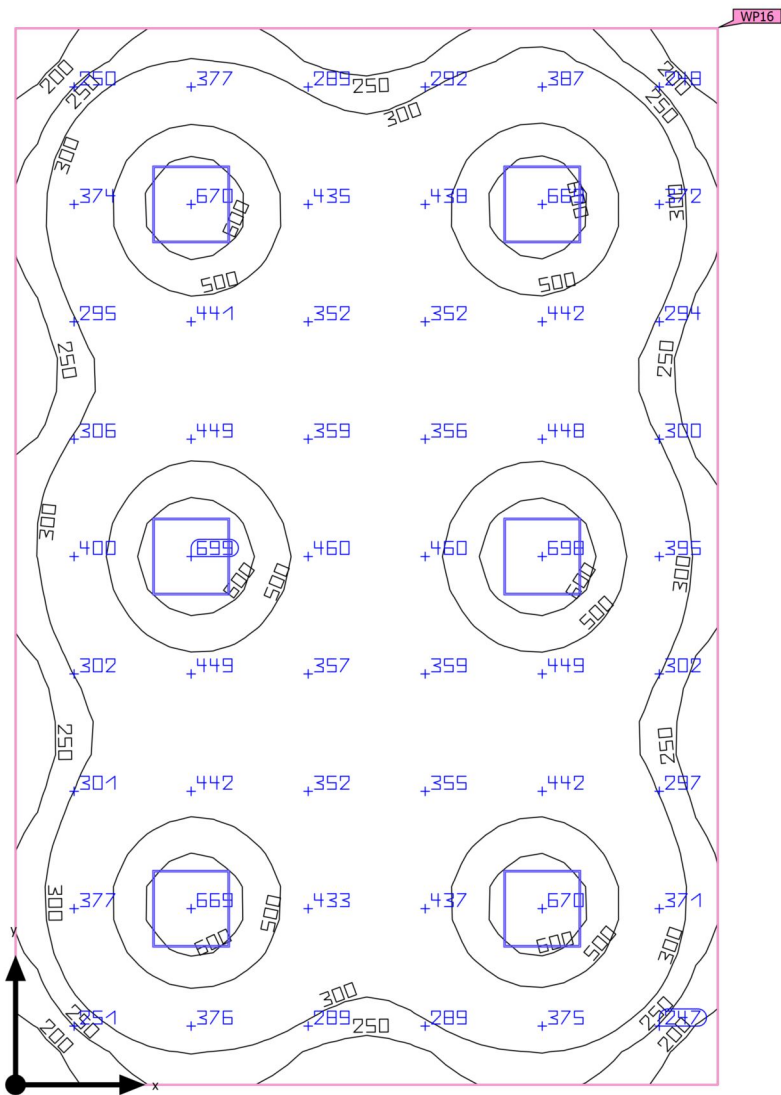


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	399 lx	163 lx	681 lx	0.41	0.24	WP15
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	44.69 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	394 lx	$\geq 300 \text{ lx}$	✓	WP16
	g_1	0.42	≥ 0.60	✗	WP16
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	20	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 1600 kWh/a	✓	
Room	Lighting power density	4.56 W/m ²	–		
		1.16 W/m ² /100 lx	–		

(1) Based on a rectangular space of 5.450 m x 8.200 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

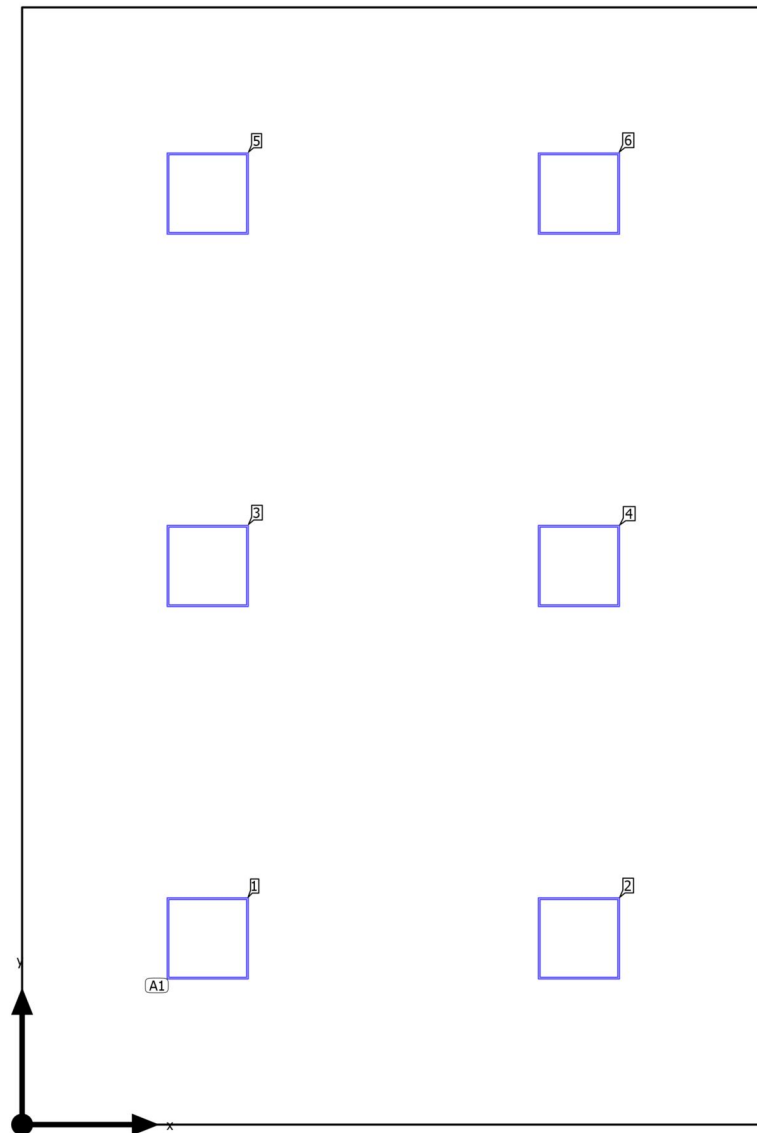
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	20	34.0 W	4061 lm	119.4 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.	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)	1.362 m / 1.367 m / 2.800 m	1.362 m	1.367 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.725 m	4.087 m	1.367 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.733 m	1.362 m	4.100 m	2.800 m	3
		4.087 m	4.100 m	2.800 m	4
Arrangement	A1	1.362 m	6.833 m	2.800 m	5
		4.087 m	6.833 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

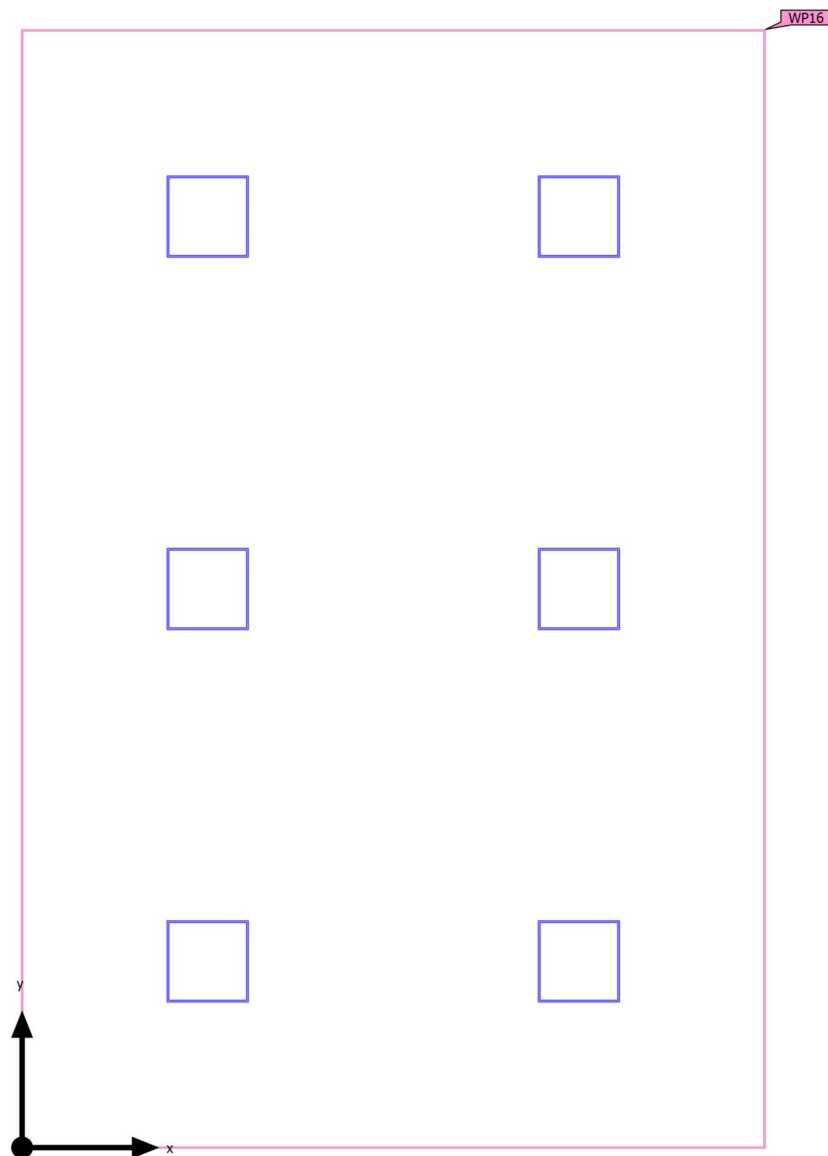
Luminaire list

Φ_{total} 24366 lm	P_{total} 204.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

Calculation objects

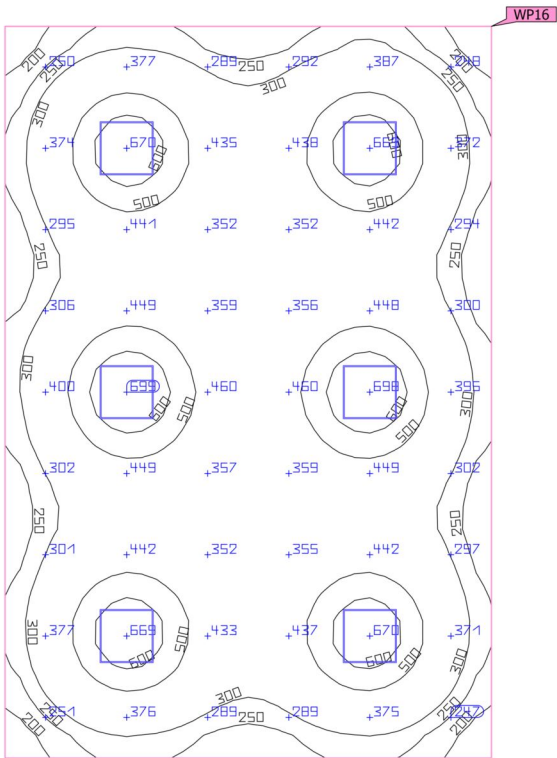
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	394 lx	164 lx	676 lx	0.42	0.24	WP16
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Klase/Classroom)

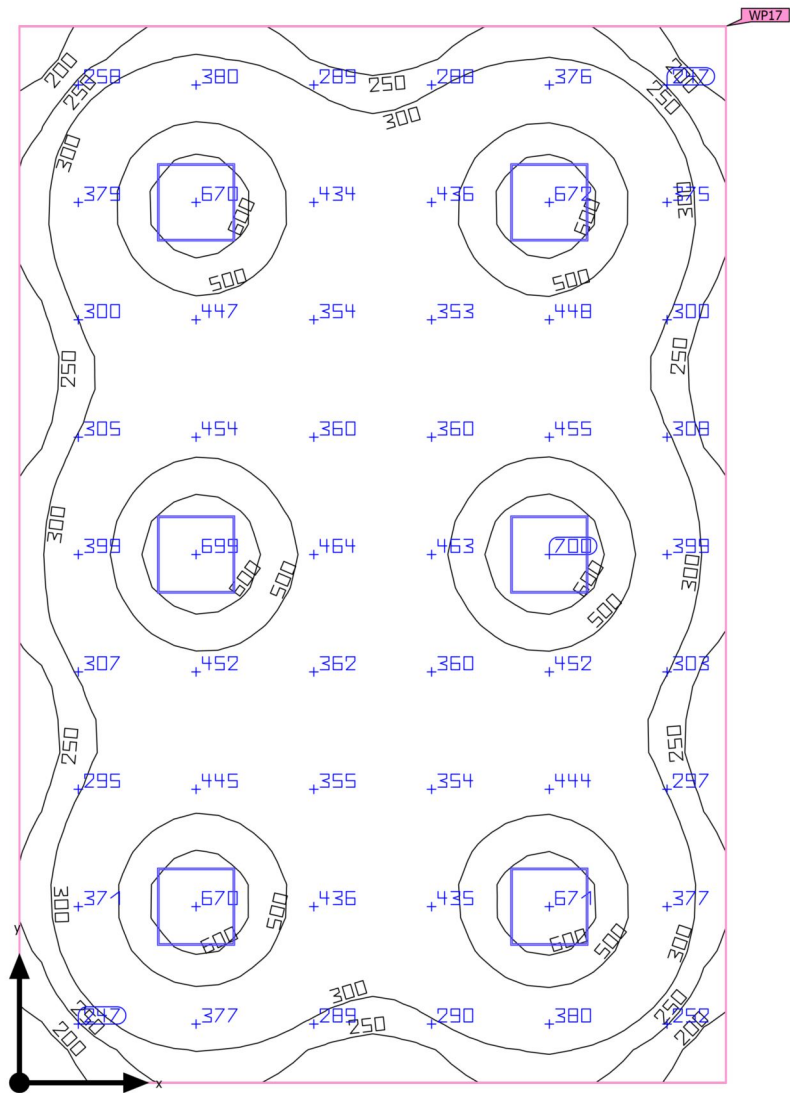


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	394 lx	164 lx	676 lx	0.42	0.24	WP16
Perpendicular illuminance (adaptive)	≥ 300 lx			≥ 0.60		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	44.42 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	396 lx	≥ 300 lx	✓	WP17
	g_1	0.41	≥ 0.60	✗	WP17
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	20	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 1600 kWh/a	✓	
Room	Lighting power density	4.59 W/m ²	–		
		1.16 W/m ² /100 lx	–		

(1) Based on a rectangular space of 5.450 m x 8.150 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

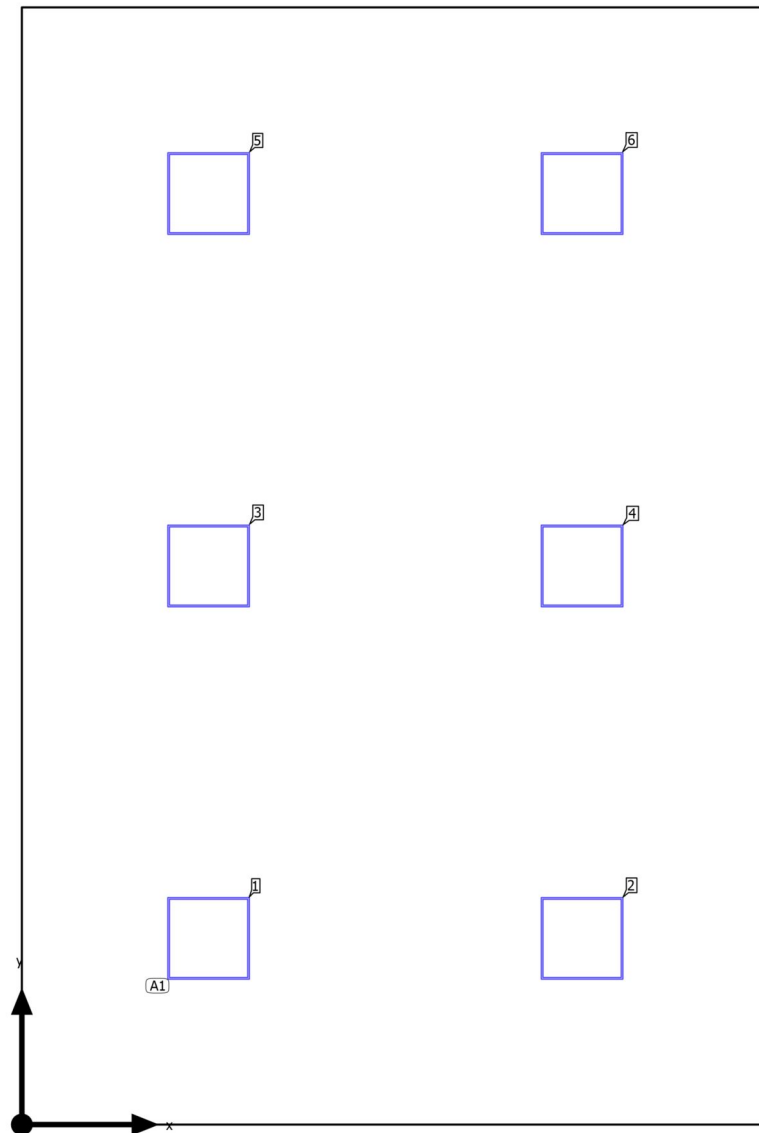
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	20	34.0 W	4061 lm	119.4 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.	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)	1.362 m / 1.358 m / 2.800 m	1.362 m	1.358 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.725 m	4.087 m	1.358 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.717 m	1.362 m	4.075 m	2.800 m	3
		4.087 m	4.075 m	2.800 m	4
Arrangement	A1	1.362 m	6.792 m	2.800 m	5
		4.087 m	6.792 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

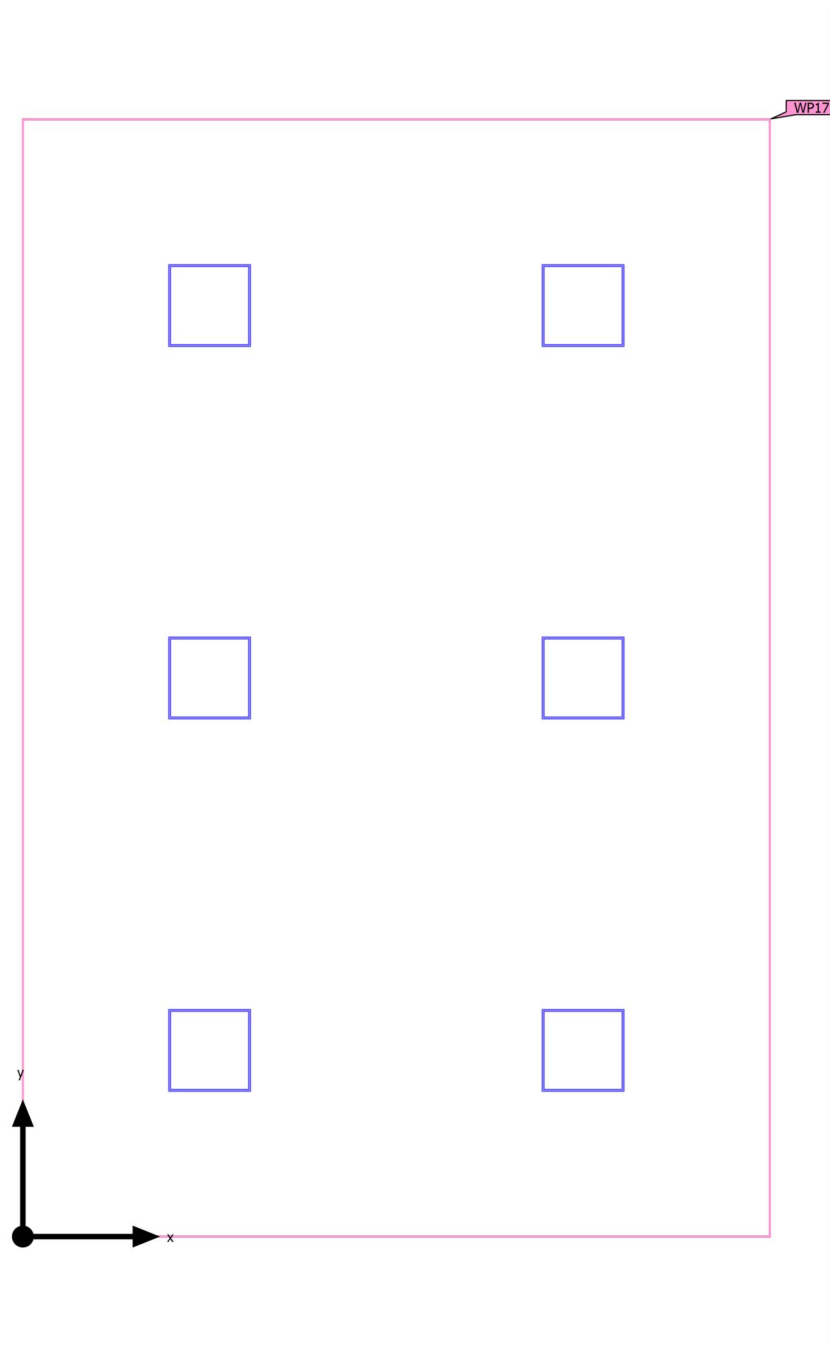
Luminaire list

Φ_{total} 24366 lm	P_{total} 204.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

Calculation objects

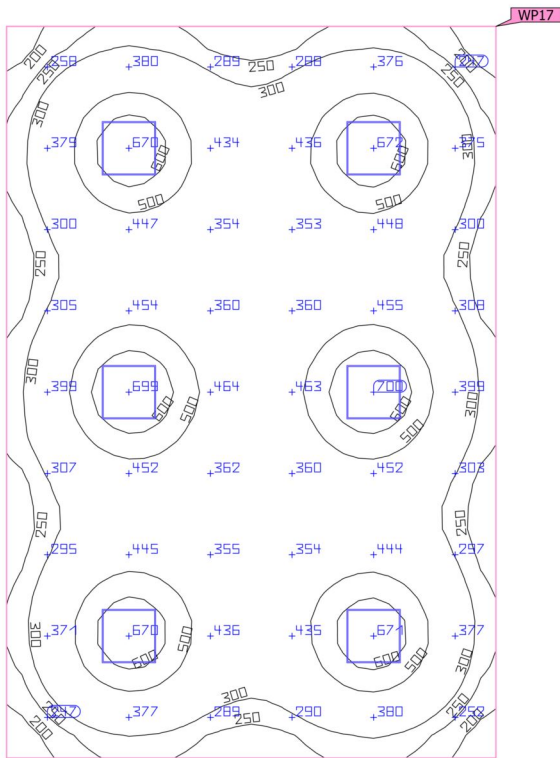
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	396 lx	163 lx	678 lx	0.41	0.24	WP17
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Klase/Classroom)

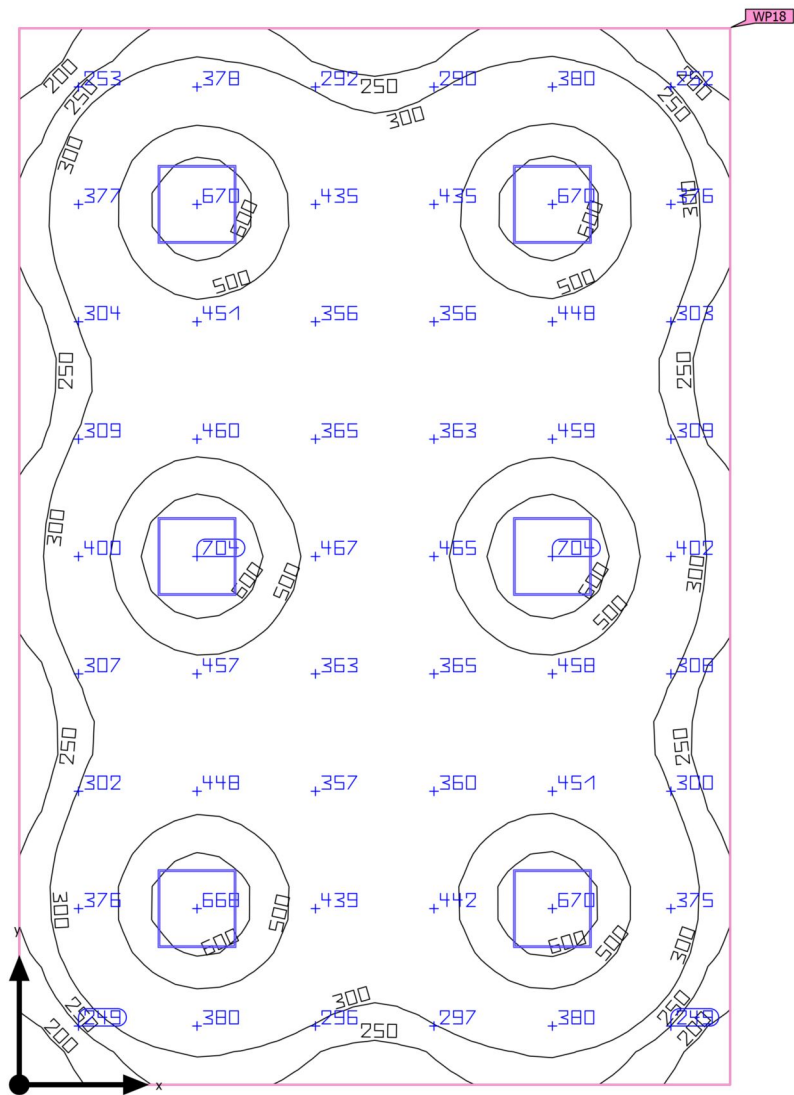


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	396 lx	163 lx	678 lx	0.41	0.24	WP17
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	44.15 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	399 lx	$\geq 300 \text{ lx}$	✓	WP18
	g_1	0.41	≥ 0.60	✗	WP18
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	20	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 1550 kWh/a	✓	
Room	Lighting power density	4.62 W/m ²	–		
		1.16 W/m ² /100 lx	–		

(1) Based on a rectangular space of 5.450 m x 8.100 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

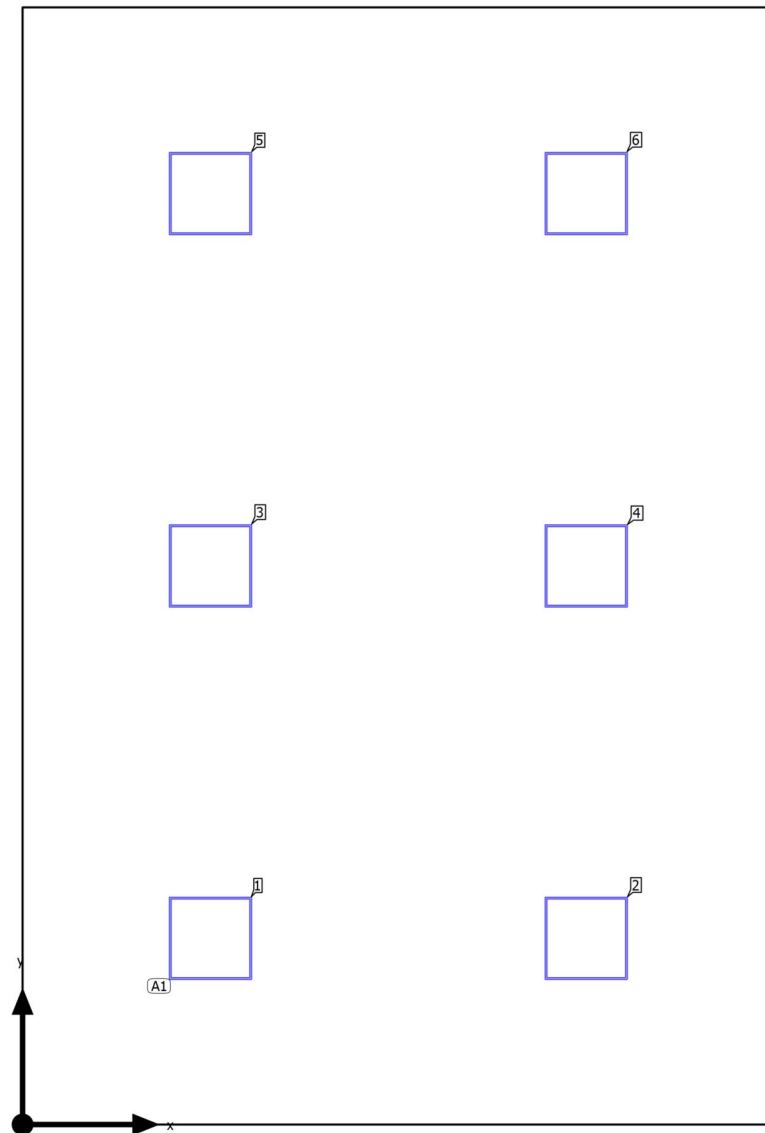
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	20	34.0 W	4061 lm	119.4 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.	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)	1.362 m / 1.350 m / 2.800 m	1.362 m	1.350 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.725 m	4.087 m	1.350 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.700 m	1.362 m	4.050 m	2.800 m	3
		4.087 m	4.050 m	2.800 m	4
Arrangement	A1	1.362 m	6.750 m	2.800 m	5
		4.087 m	6.750 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

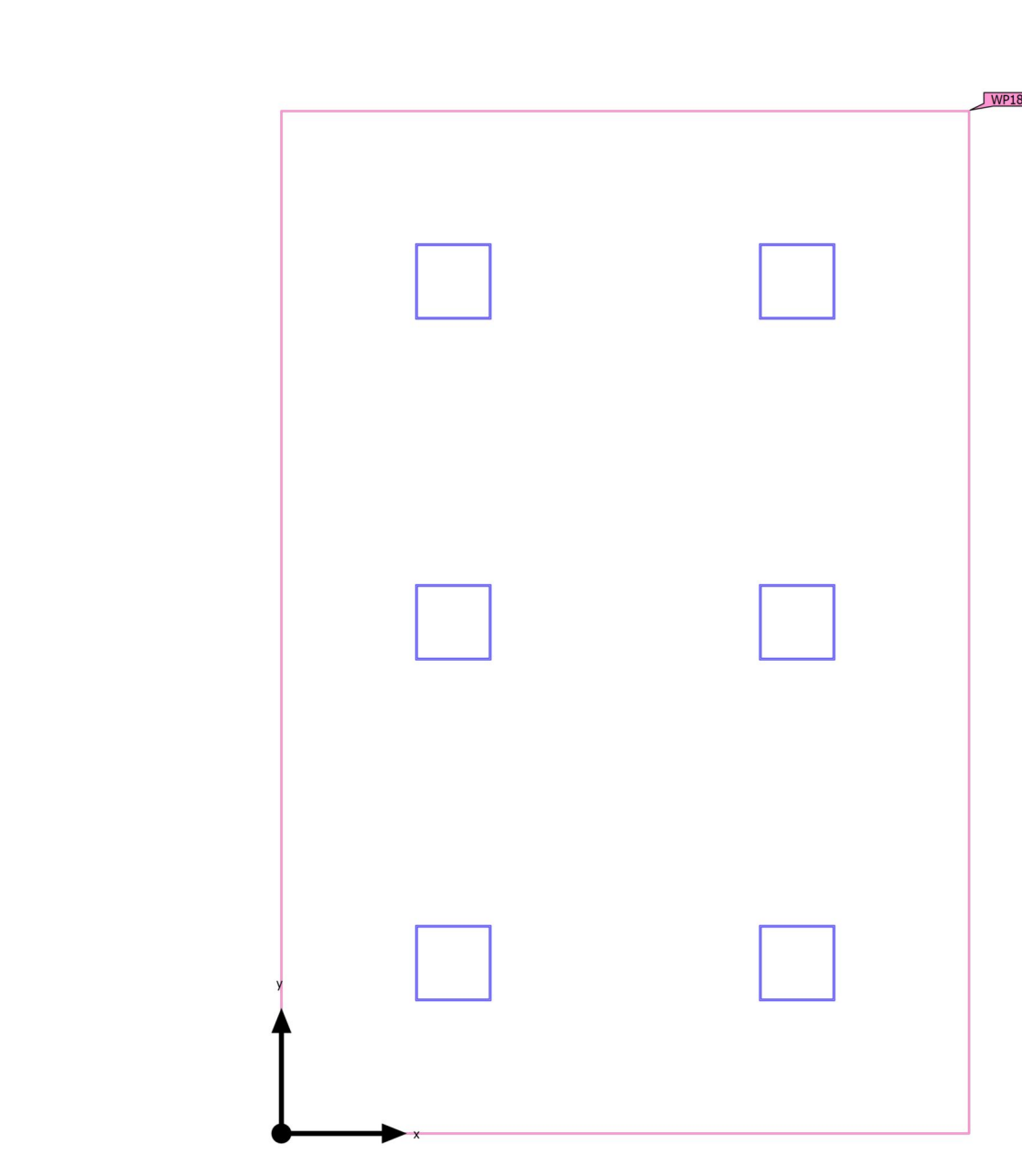
Luminaire list

Φ_{total} 24366 lm	P_{total} 204.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

Calculation objects

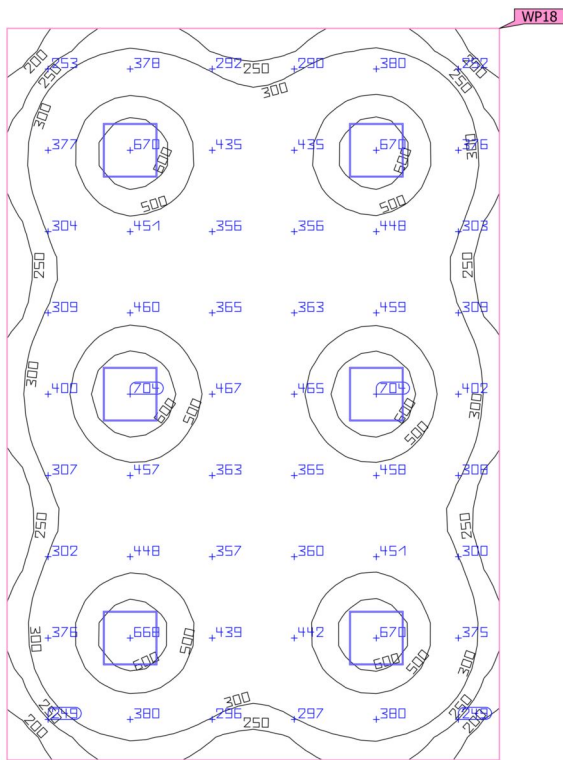
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	399 lx	165 lx	682 lx	0.41	0.24	WP18
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Klase/Classroom)

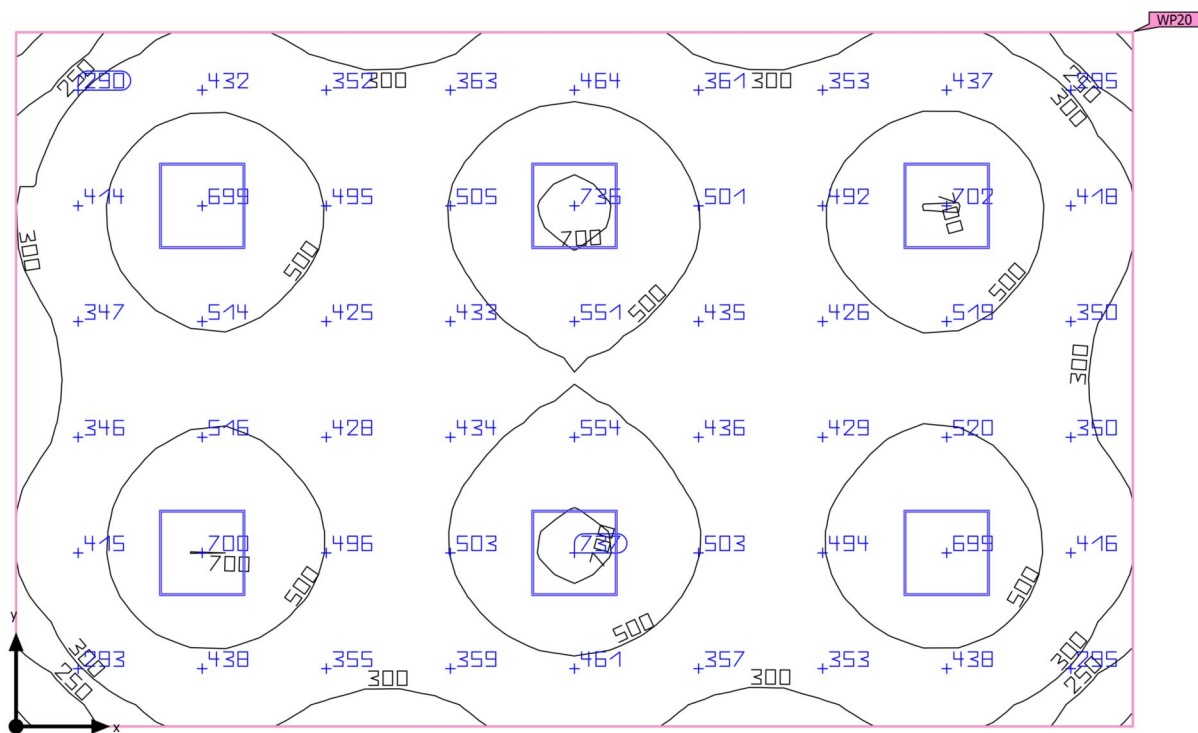


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	399 lx	165 lx	682 lx	0.41	0.24	WP18
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	37.83 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	452 lx	≥ 300 lx	✓	WP20
	g_1	0.43	≥ 0.60	✗	WP20
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	20	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 1350 kWh/a	✓	
Room	Lighting power density	5.39 W/m ²	–		
		1.19 W/m ² /100 lx	–		

(1) Based on a rectangular space of 7.800 m x 4.850 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

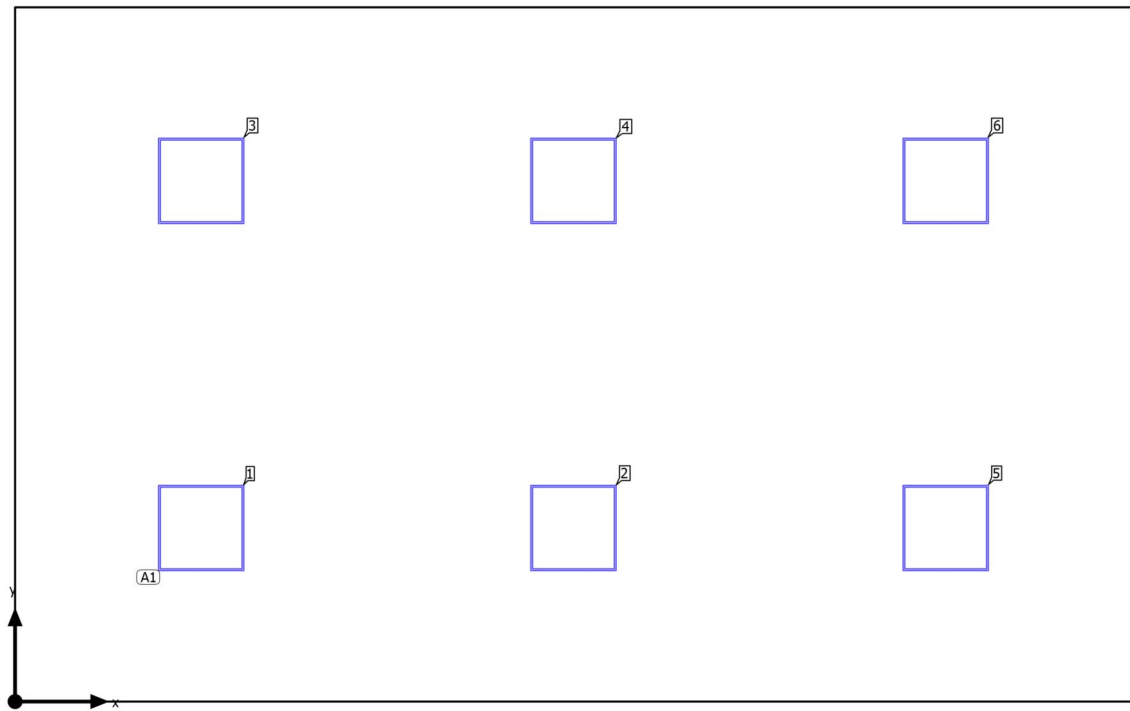
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	20	34.0 W	4061 lm	119.4 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.	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)	1.300 m / 1.212 m / 2.800 m	1.300 m	1.212 m	2.800 m	1
X-direction	3 pcs., Center - center, 2.600 m	3.900 m	1.212 m	2.800 m	2
Y-direction	2 pcs., Center - center, 2.425 m	1.300 m	3.637 m	2.800 m	3
		3.900 m	3.637 m	2.800 m	4
Arrangement	A1	6.500 m	1.212 m	2.800 m	5
		6.500 m	3.637 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

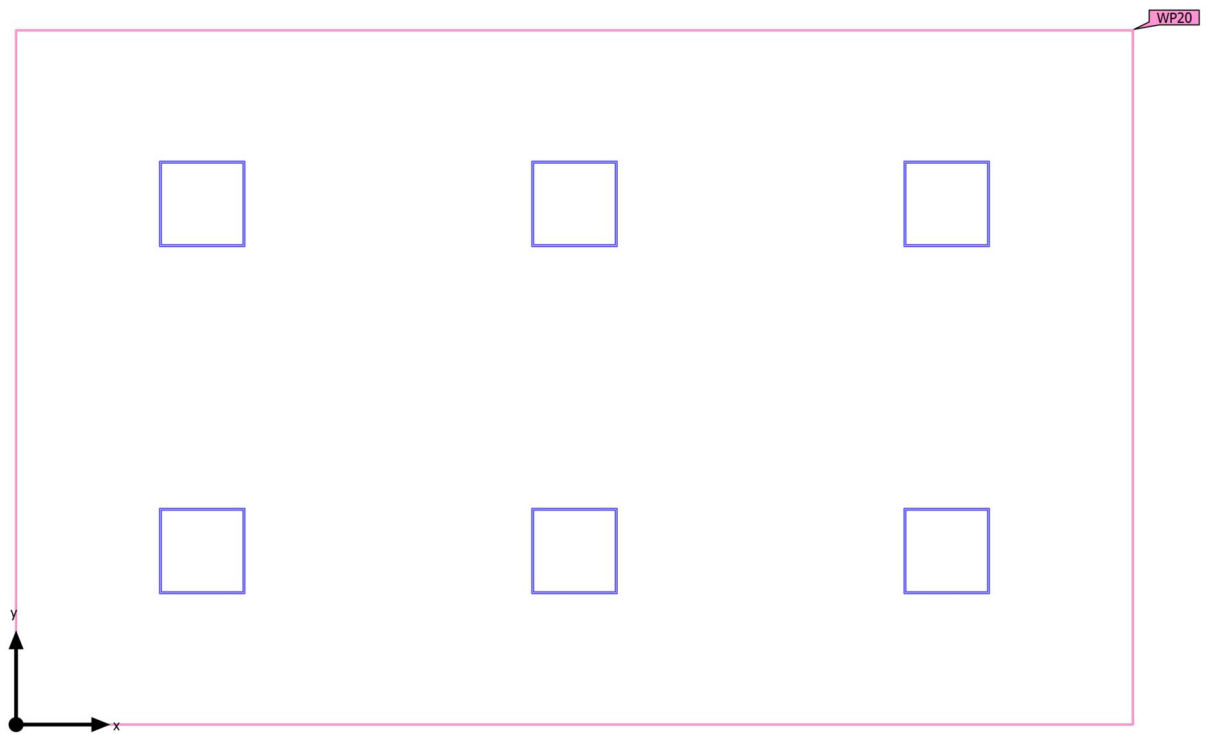
Luminaire list

Φ_{total} 24366 lm	P_{total} 204.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

Calculation objects

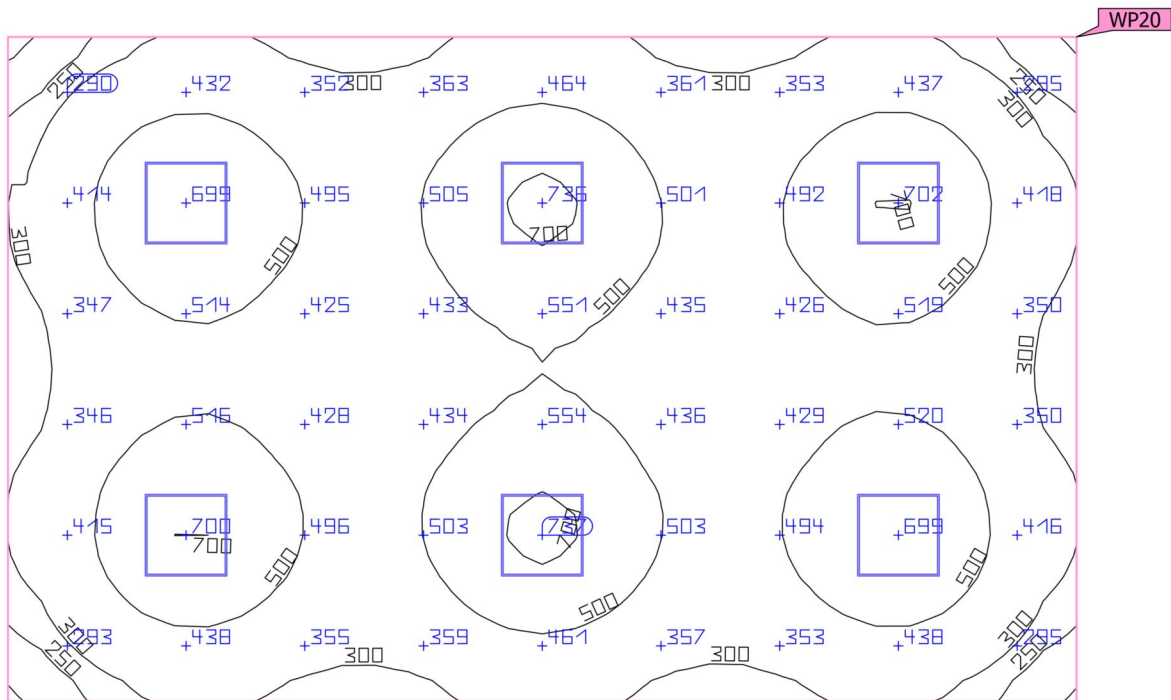
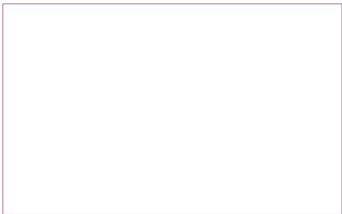
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	452 lx	193 lx	727 lx	0.43	0.27	WP20
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Klase/Classroom)

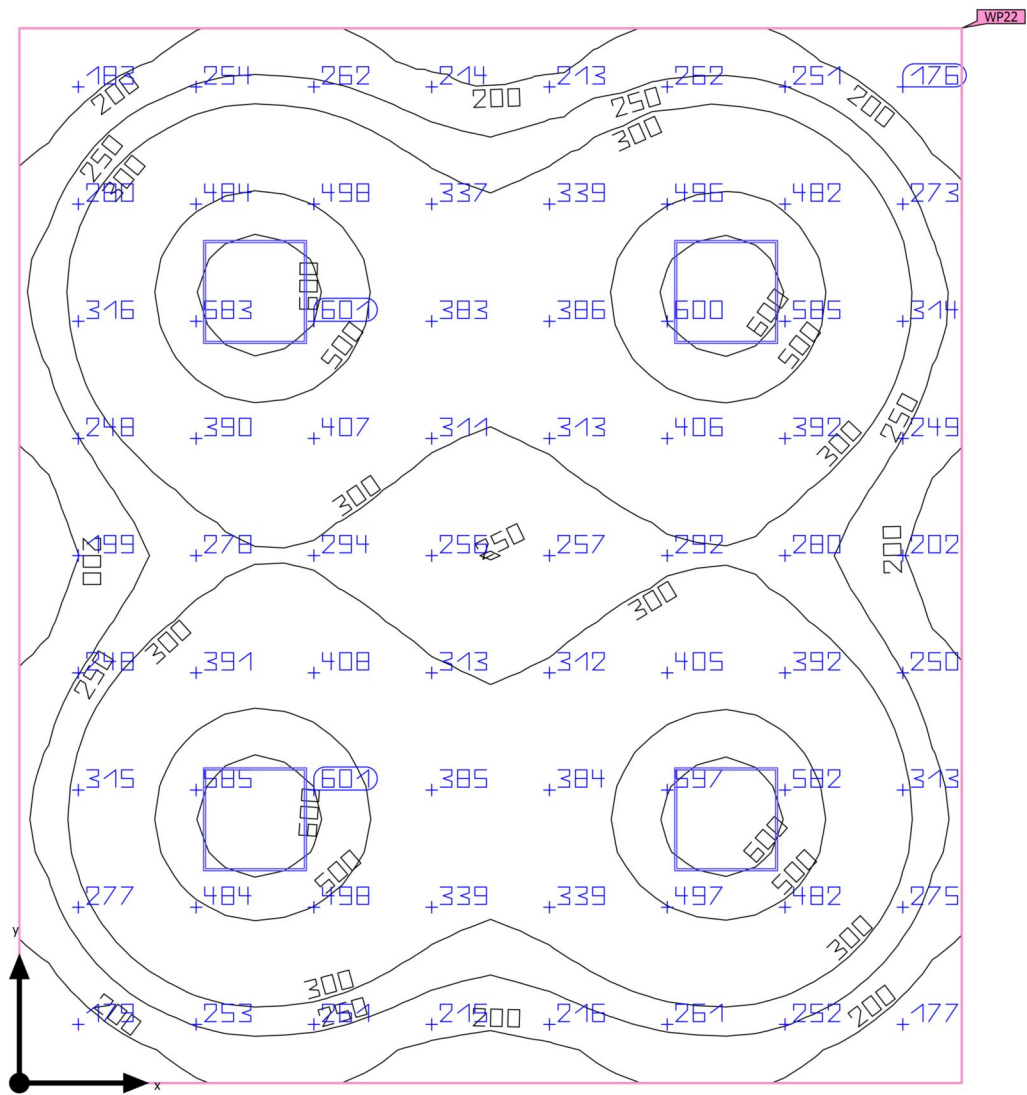


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	452 lx	193 lx	727 lx	0.43	0.27	WP20
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	33.25 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	347 lx	≥ 300 lx	✓	WP22
	g_1	0.39	≥ 0.60	✗	WP22
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	20	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	181 kWh/a	max. 1200 kWh/a	✓	
Room	Lighting power density	4.09 W/m ²	–		
		1.18 W/m ² /100 lx	–		

(1) Based on a rectangular space of 5.450 m x 6.100 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

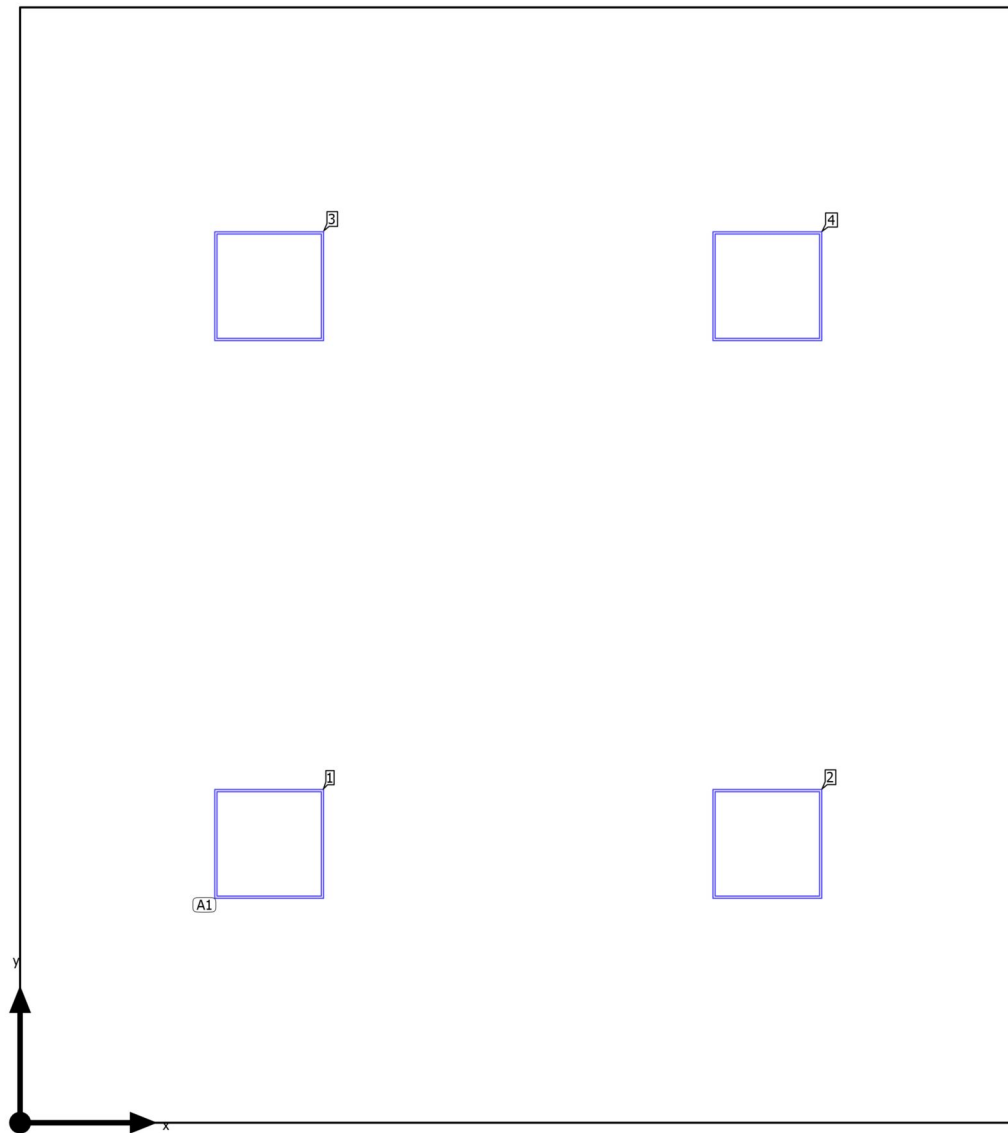
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	20	34.0 W	4061 lm	119.4 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.	0042872	$\Phi_{\text{Luminaire}}$	4061 lm
Article name	START Panel 600x600 HE 4100Lm 830 LILO		
Fitting	1x LED		

4 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)	1.362 m / 1.525 m / 2.800 m	1.362 m	1.525 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.725 m	4.087 m	1.525 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.050 m	1.362 m	4.575 m	2.800 m	3
		4.087 m	4.575 m	2.800 m	4
Arrangement	A1				

Building 1 · Story 1 · Klase/Classroom

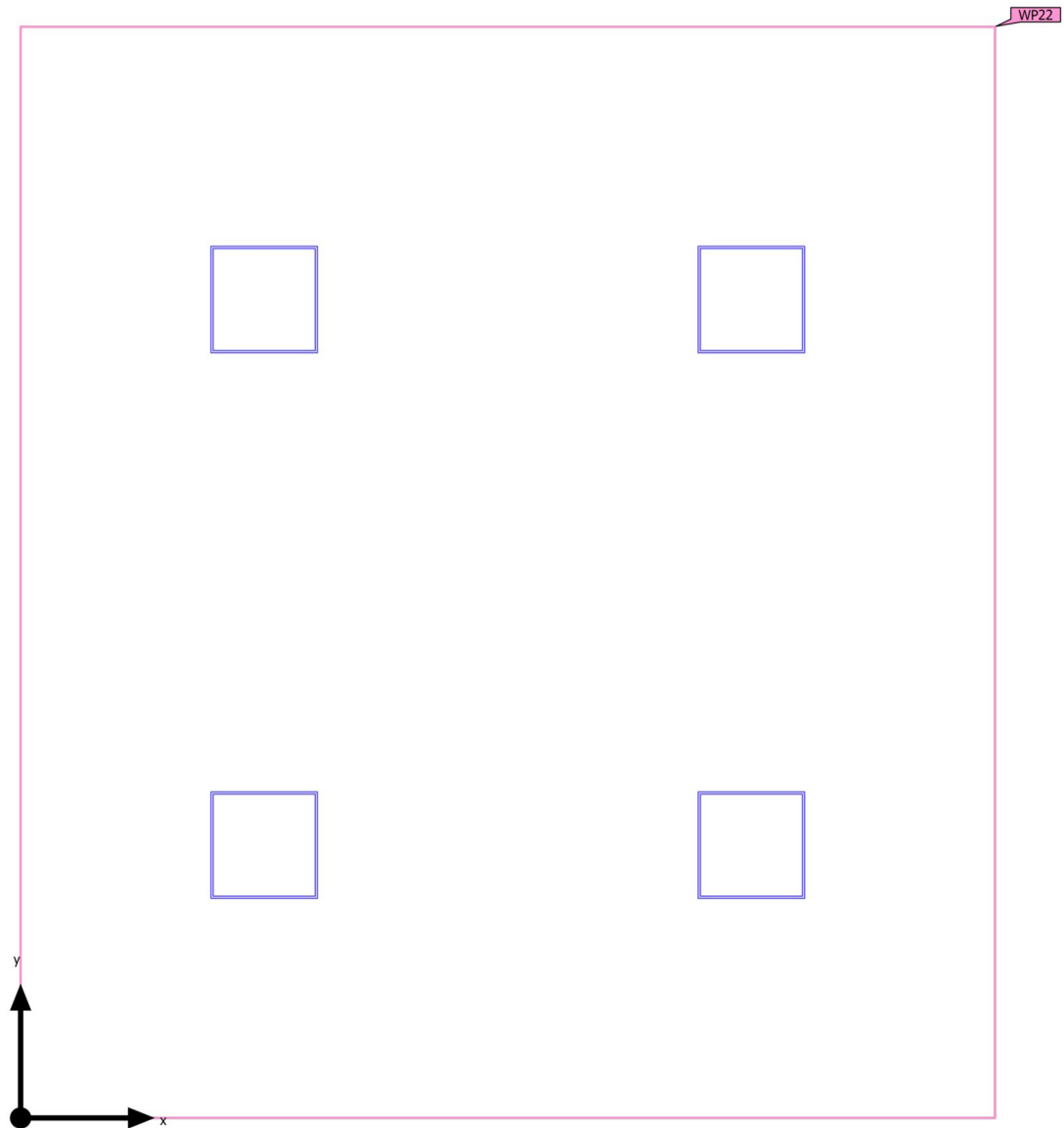
Luminaire list

Φ_{total} 16244 lm	P_{total} 136.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

Calculation objects

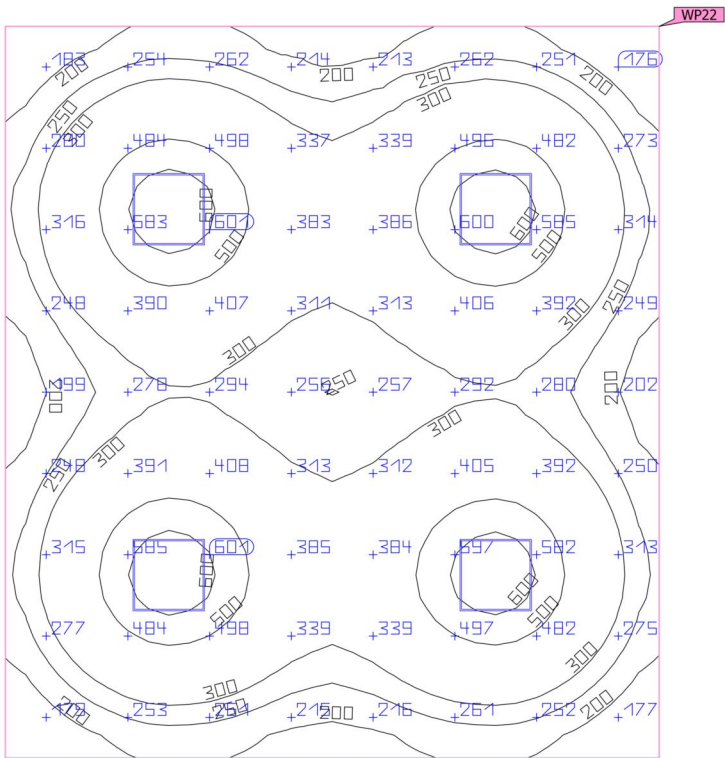
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	347 lx	135 lx	659 lx	0.39	0.20	WP22
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Klase/Classroom)

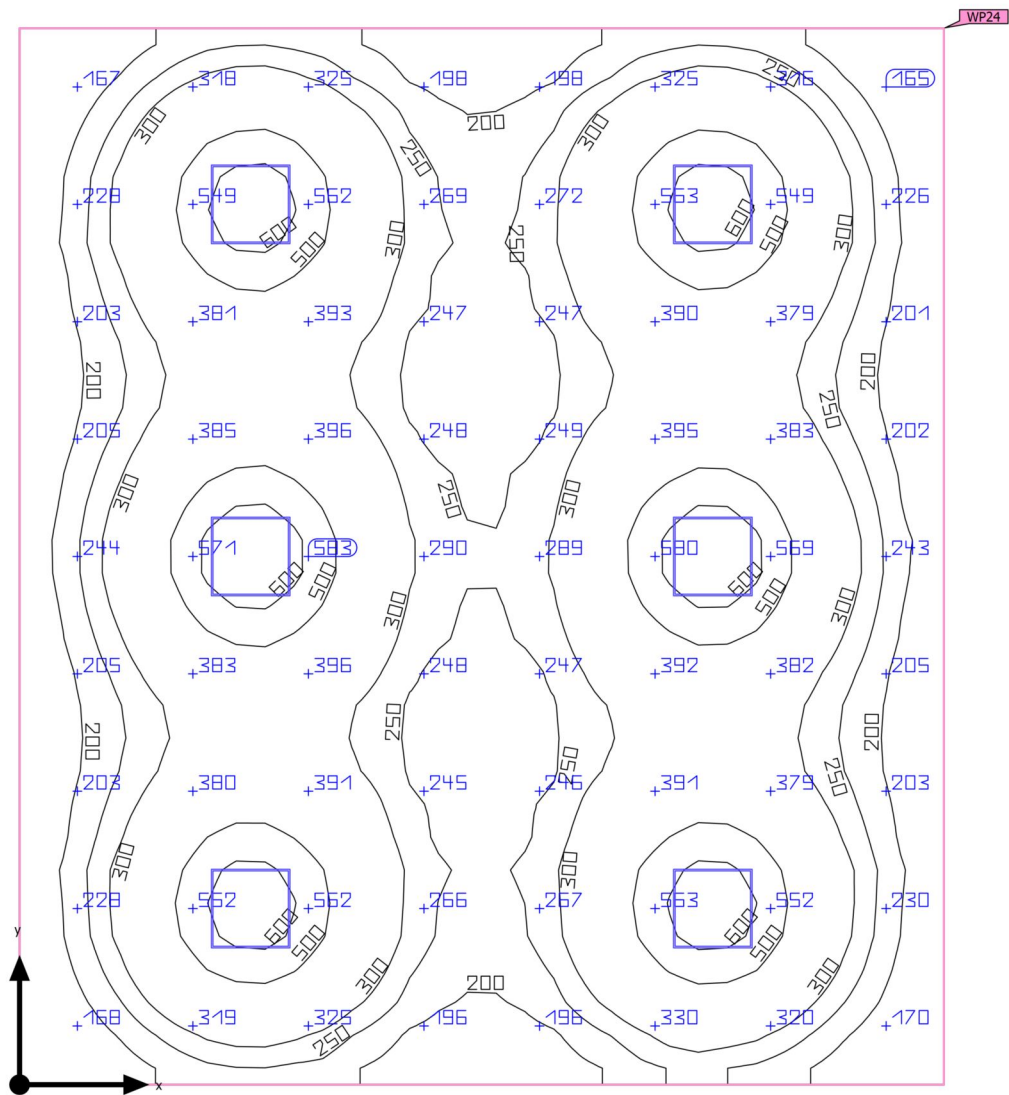


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	347 lx	135 lx	659 lx	0.39	0.20	WP22
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	56.00 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	327 lx	$\geq 300 \text{ lx}$	✓	WP24
	g_1	0.35	≥ 0.60	✗	WP24
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	21	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 2000 kWh/a	✓	
Room	Lighting power density	3.64 W/m ²	–		
		1.11 W/m ² /100 lx	–		

(1) Based on a rectangular space of 7.000 m x 8.000 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

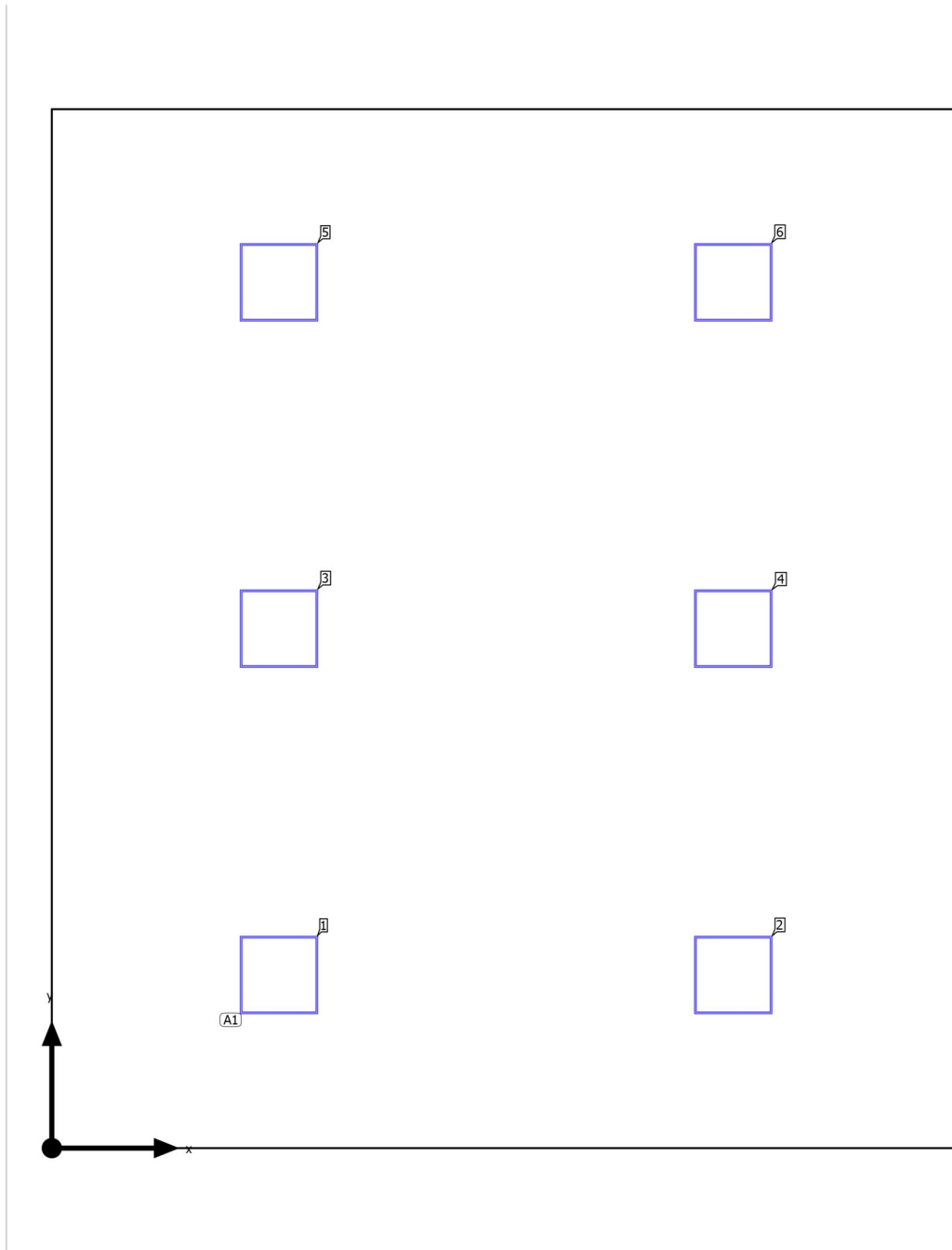
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	21	34.0 W	4061 lm	119.4 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.	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)	1.750 m / 1.333 m / 2.800 m	1.750 m	1.333 m	2.800 m	1
X-direction	2 pcs., Center - center, 3.500 m	5.250 m	1.333 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.667 m	1.750 m	4.000 m	2.800 m	3
		5.250 m	4.000 m	2.800 m	4
Arrangement	A1	1.750 m	6.667 m	2.800 m	5
		5.250 m	6.667 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

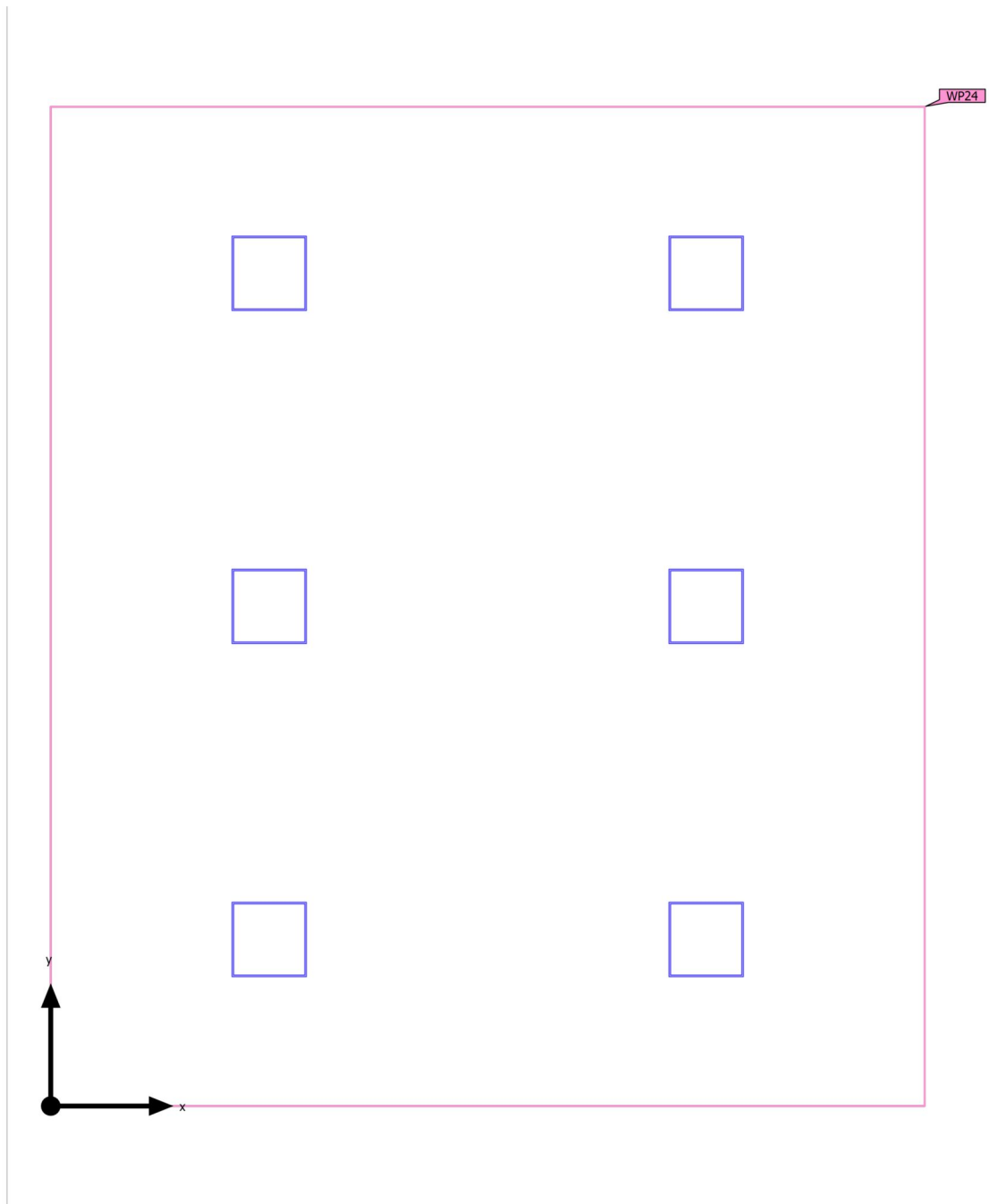
Luminaire list

Φ_{total} 24366 lm	P_{total} 204.0 W	Luminous efficacy 119.4 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

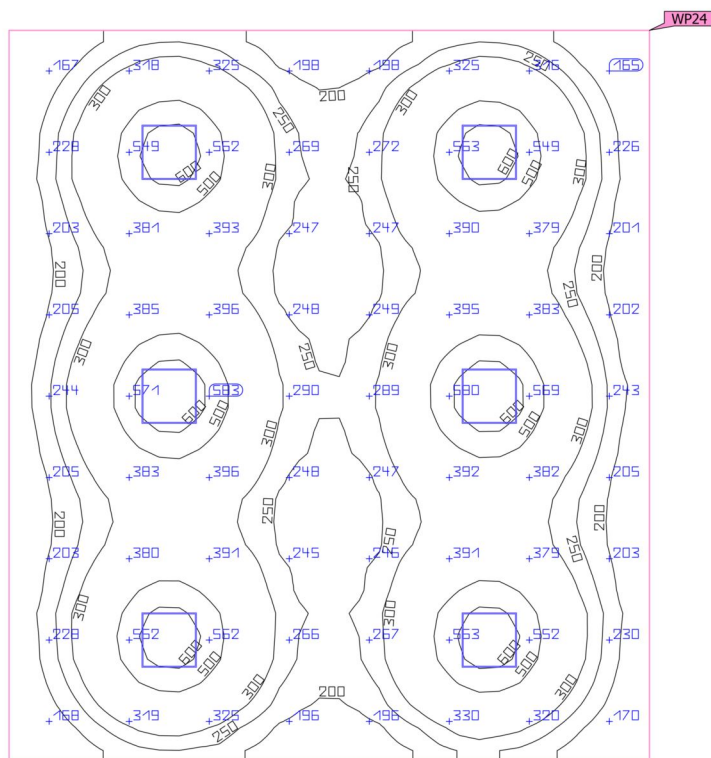
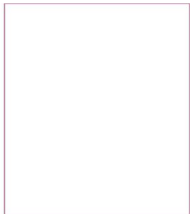
Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	327 lx	113 lx	674 lx	0.35	0.17	WP24
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

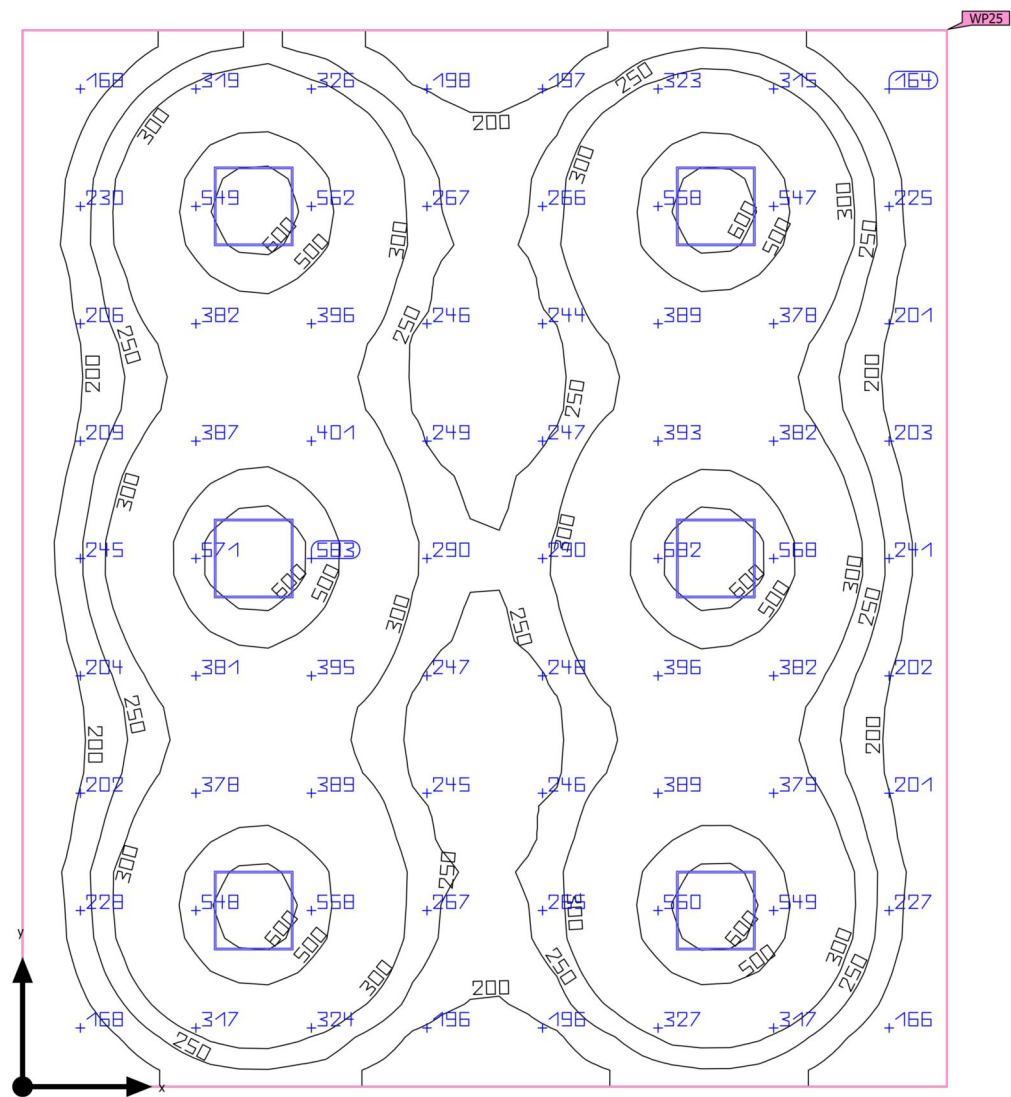
Working plane (Klase/Classroom)

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	327 lx	113 lx	674 lx	0.35	0.17	WP24
Perpendicular illuminance (adaptive)	≥ 300 lx			≥ 0.60		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	56.00 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	327 lx	$\geq 300 \text{ lx}$	✓	WP25
	g_1	0.34	≥ 0.60	✗	WP25
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	21	≤ 19	✗	
Consumption values ⁽²⁾	Consumption	271 kWh/a	max. 2000 kWh/a	✓	
Room	Lighting power density	3.64 W/m ²	–		
		1.11 W/m ² /100 lx	–		

(1) Based on a rectangular space of 7.000 m x 8.000 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

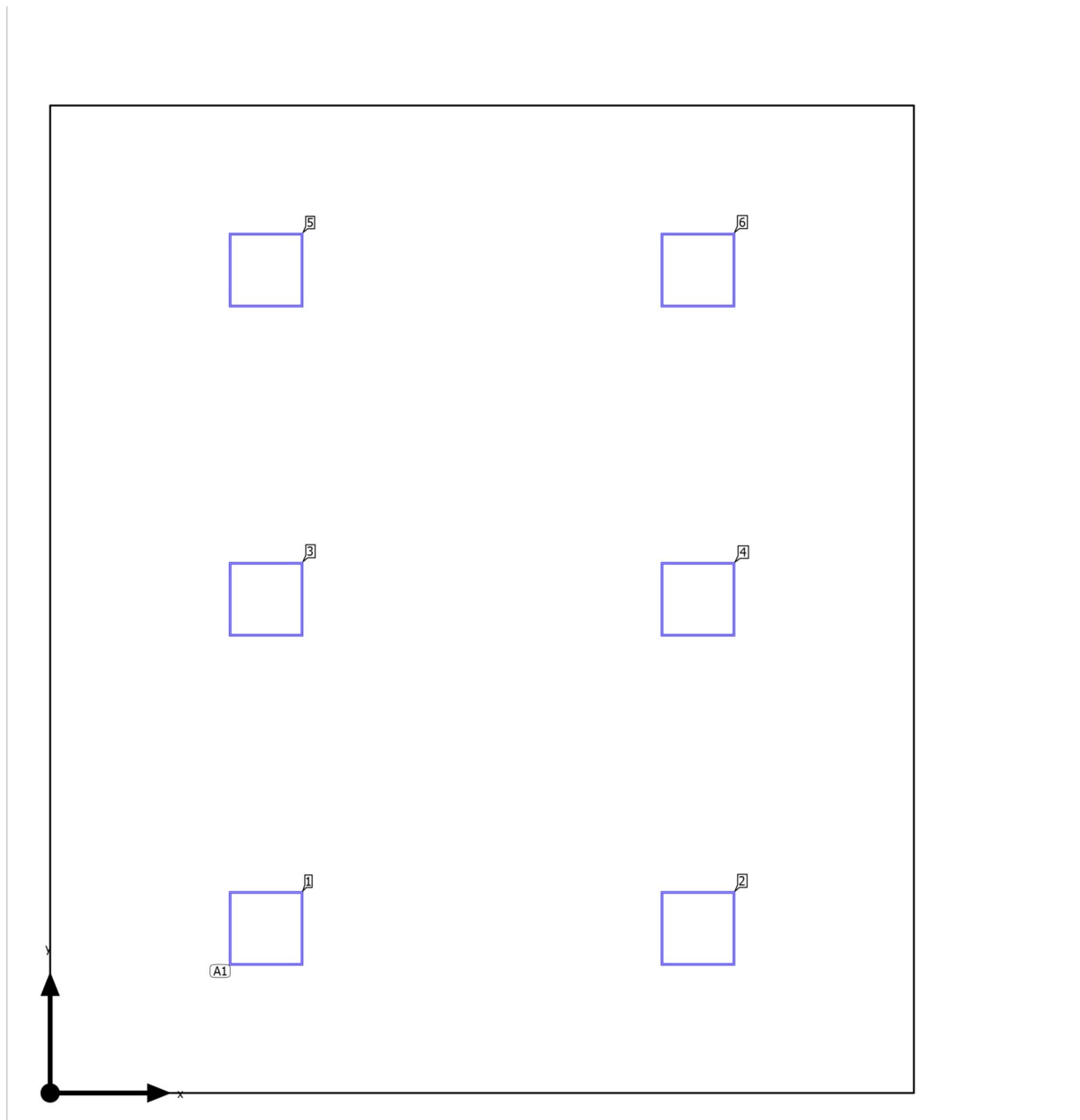
Utilization profile: Educational premises - Educational buildings (5.36.1 Classrooms, tutorial rooms)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	21	34.0 W	4061 lm	119.4 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.	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)	1.750 m / 1.333 m / 2.800 m	1.750 m	1.333 m	2.800 m	1
X-direction	2 pcs., Center - center, 3.500 m	5.250 m	1.333 m	2.800 m	2
Y-direction	3 pcs., Center - center, 2.667 m	1.750 m	4.000 m	2.800 m	3
		5.250 m	4.000 m	2.800 m	4
Arrangement	A1	1.750 m	6.667 m	2.800 m	5
		5.250 m	6.667 m	2.800 m	6

Building 1 · Story 1 · Klase/Classroom

Luminaire list Φ_{total}

24366 lm

 P_{total}

204.0 W

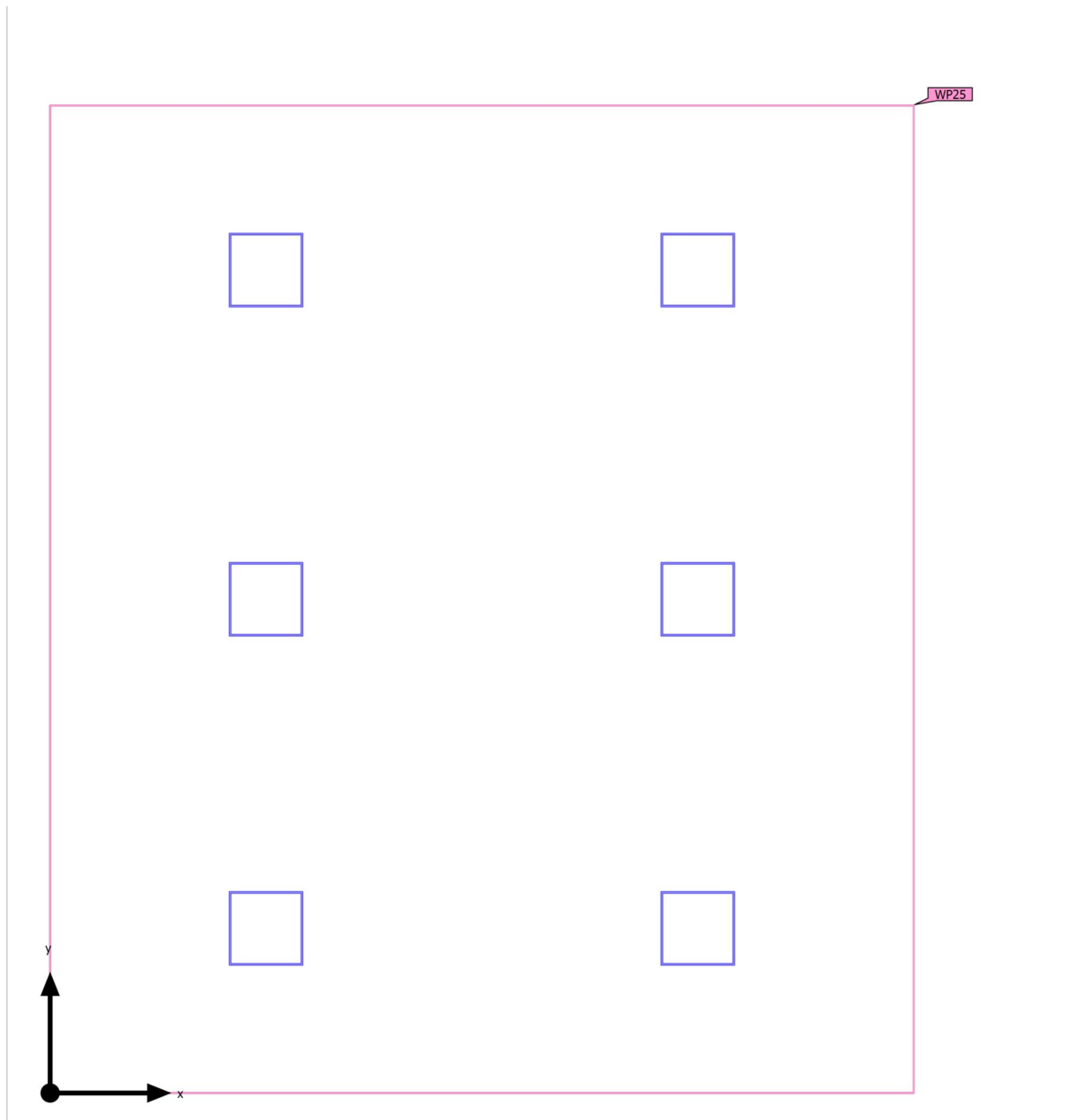
Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	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 · Klase/Classroom (Light scene 1)

Calculation objects



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

Calculation objects

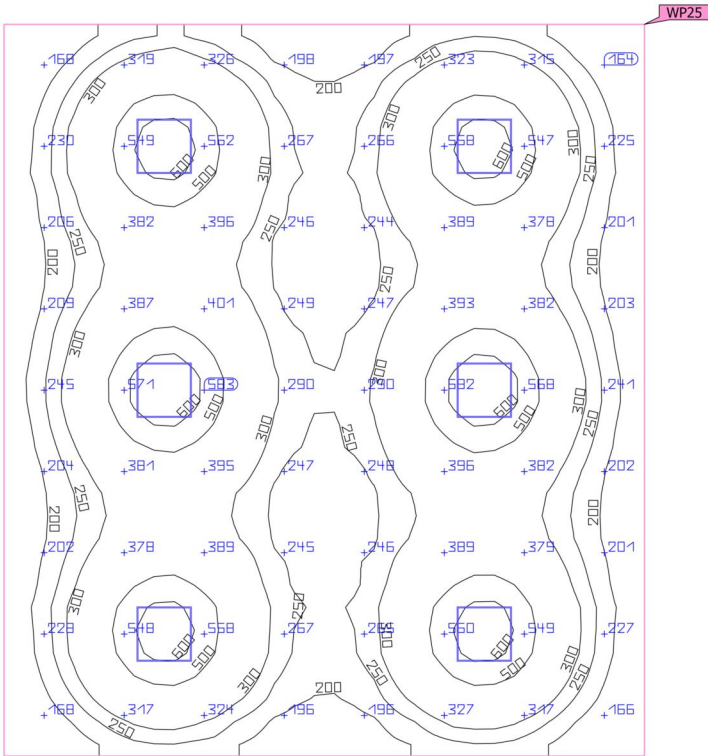
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	327 lx	112 lx	674 lx	0.34	0.17	WP25
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Klase/Classroom)

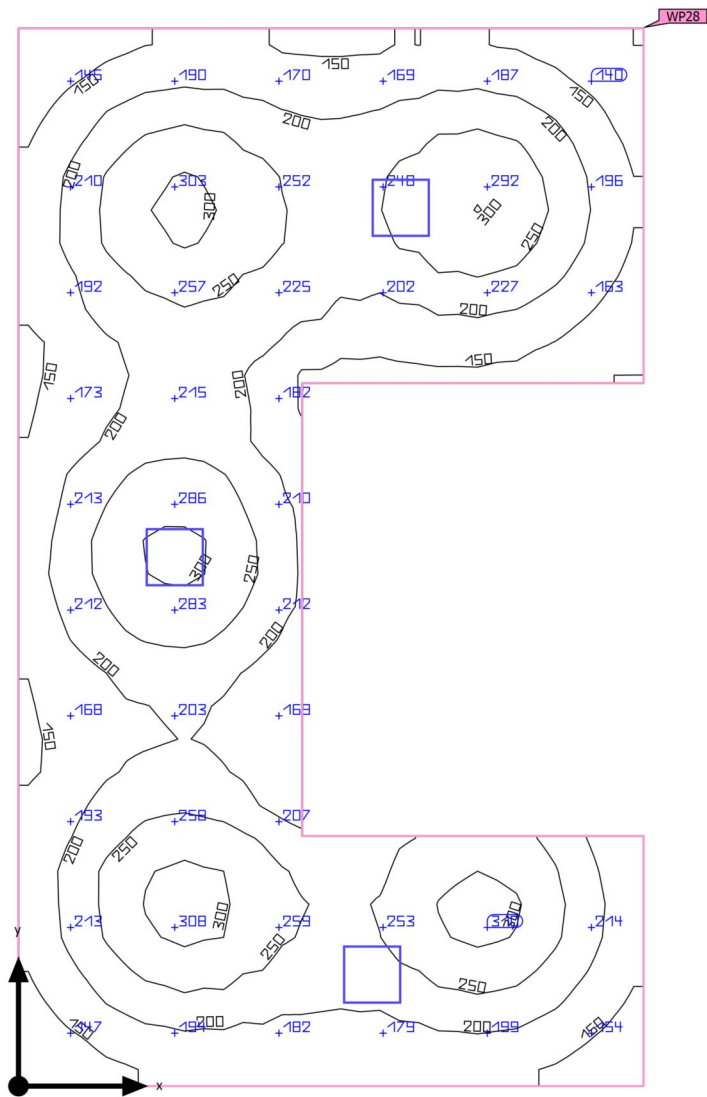


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Klase/Classroom)	327 lx	112 lx	674 lx	0.34	0.17	WP25
Perpendicular illuminance (adaptive)	≥ 300 lx			≥ 0.60		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	54.78 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.000 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	212 lx	$\geq 100 \text{ lx}$	✓	WP28
	g_1	0.47	≥ 0.40	✓	WP28
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	21	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	112 kWh/a	max. 1950 kWh/a	✓	
Room	Lighting power density	1.86 W/m ²	–		
		0.88 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.500 m x 11.000 m and SHR of 0.25.

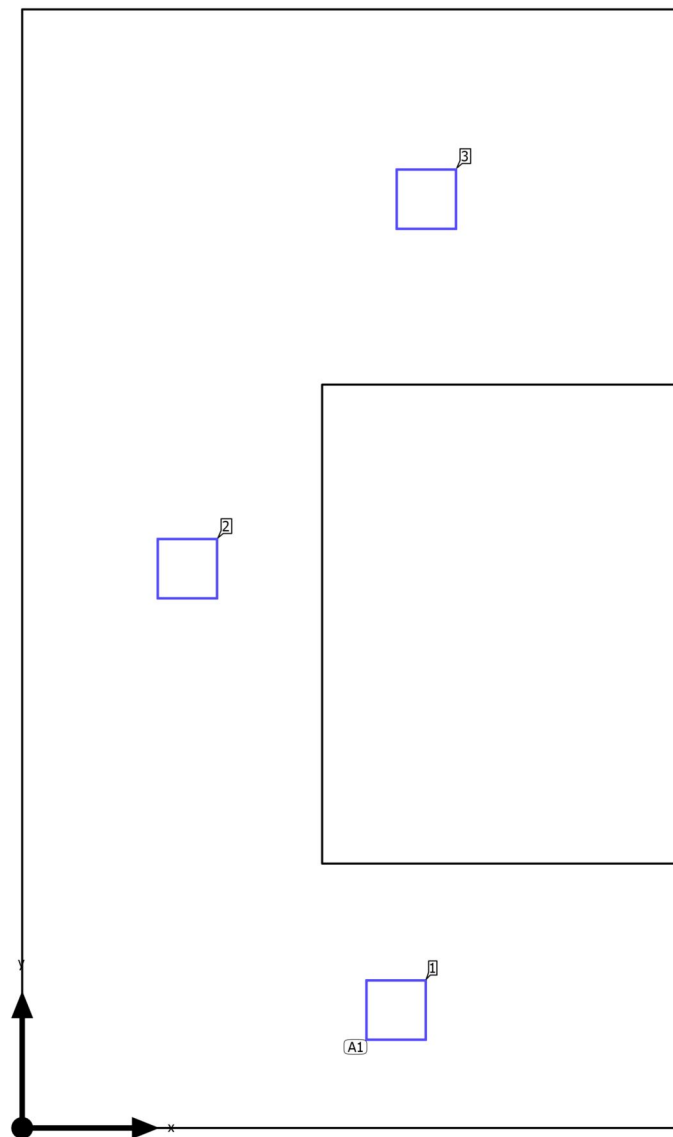
(2) Calculated using DIN:18599-4.

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

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
3	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	21	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		

3 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)	3.677 m / 1.160 m / 2.800 m	3.677 m	1.160 m	2.800 m	1
X-direction	2 pcs., Center - center, Distances not equal	1.625 m	5.500 m	2.800 m	2
		3.975 m	9.133 m	2.800 m	3
Y-direction	3 pcs., Center - center, Distances not equal				
Arrangement	A1				

Building 1 · Story 1 · Koridor

Luminaire list Φ_{total}

12183 lm

 P_{total}

102.0 W

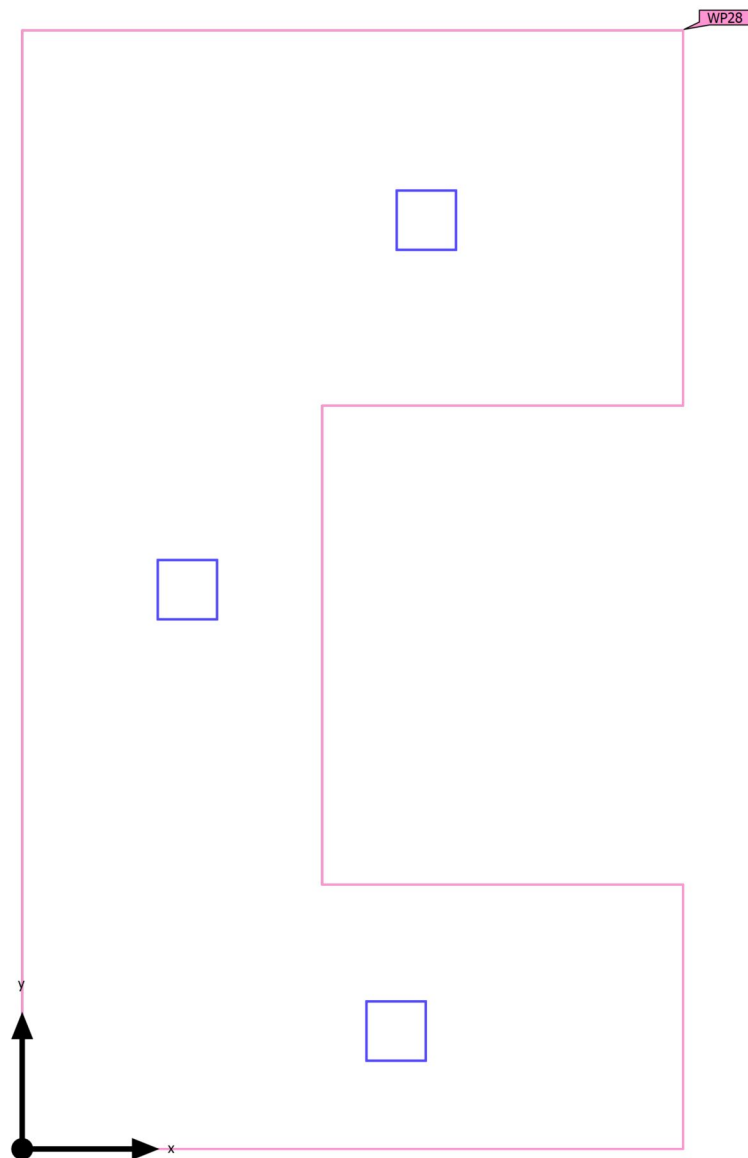
Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	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

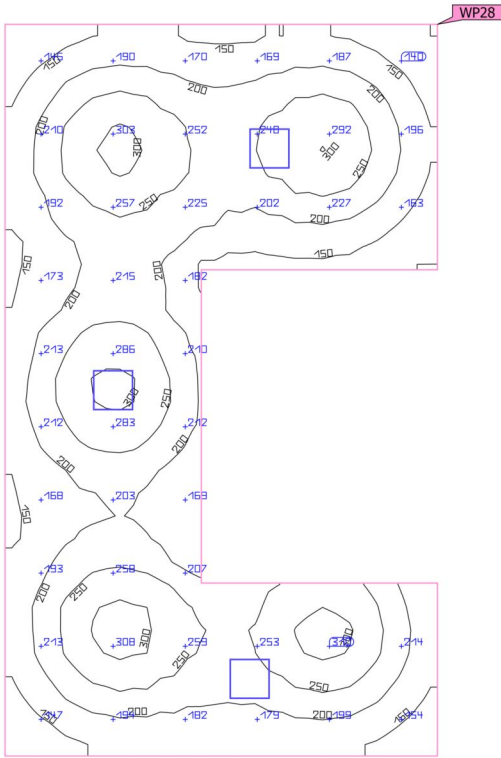
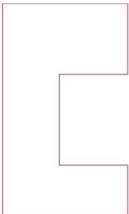
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridor)	212 lx	99.8 lx	315 lx	0.47	0.32	WP28
Perpendicular illuminance (adaptive)	(≥ 100 lx)			(≥ 0.40)		
Height: 0.000 m, Wall zone: 0.000 m	✓			✓		

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

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

Working plane (Koridor)

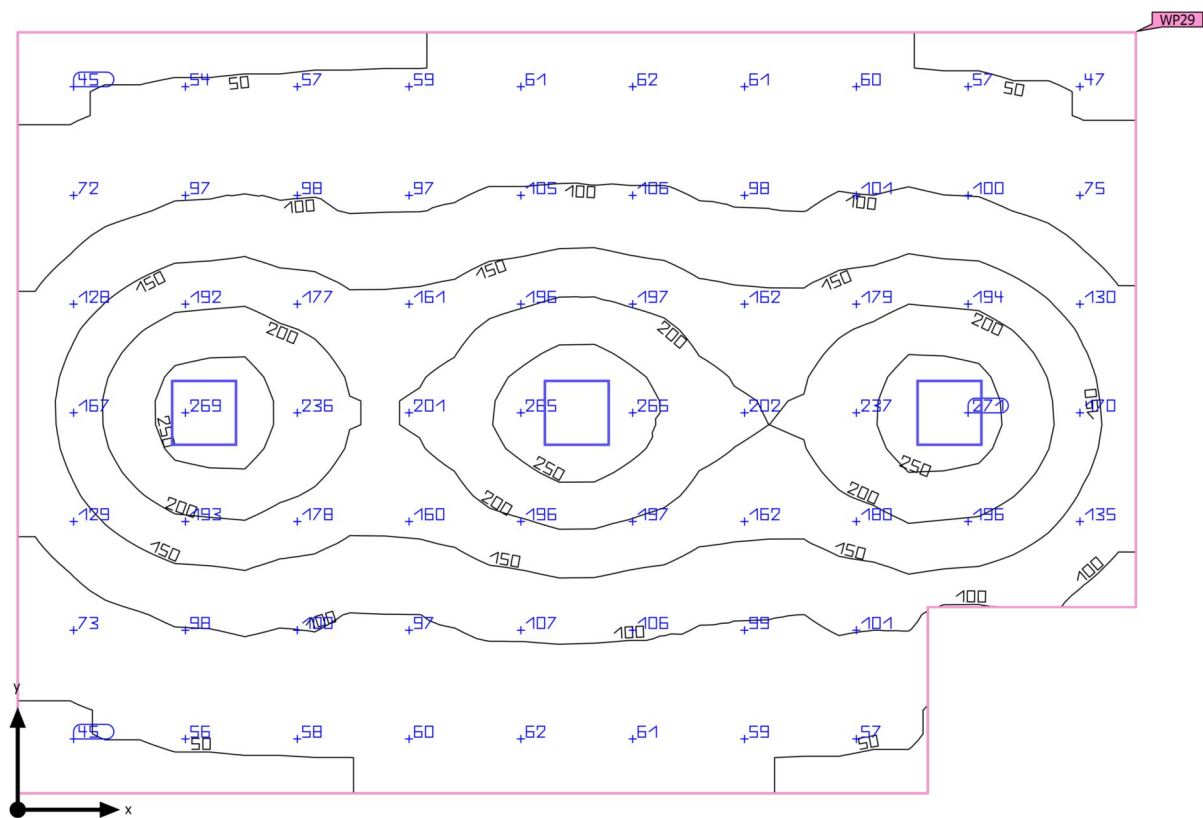


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridor)	212 lx	99.8 lx	315 lx	0.47	0.32	WP28
Perpendicular illuminance (adaptive)	≥ 100 lx			≥ 0.40		
Height: 0.000 m, Wall zone: 0.000 m	✓			✓		

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

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

Summary



Ground area	67.74 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.000 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	127 lx	≥ 100 lx	✓	WP29
	g_1	0.31	≥ 0.40	✗	WP29
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	21	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	112 kWh/a	max. 2400 kWh/a	✓	
Room	Lighting power density	1.51 W/m ²	–		
		1.18 W/m ² /100 lx	–		

(1) Based on a rectangular space of 6.950 m x 10.212 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

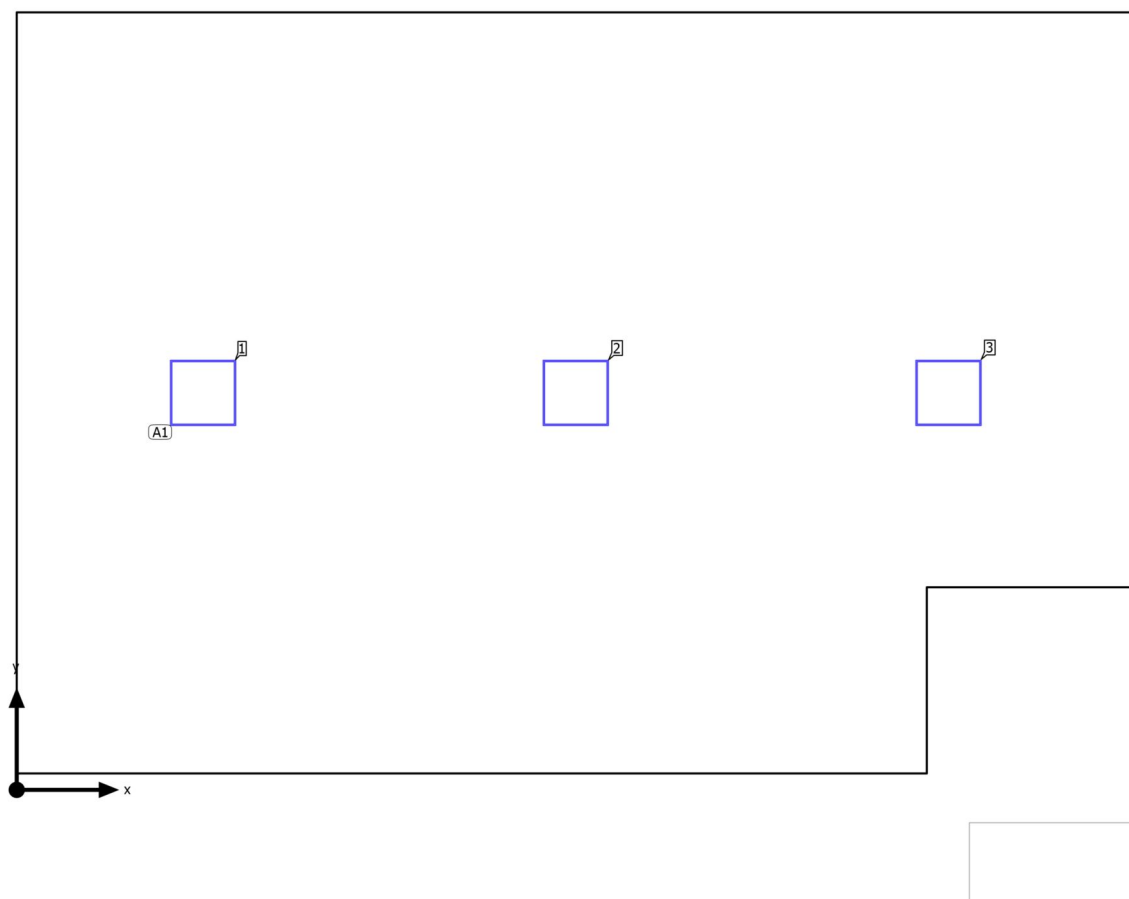
Utilization profile: Health care premises - Rooms for general use (5.37.3 Corridors: Cleaning)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
3	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	21	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		

3 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)	1.702 m / 3.625 m / 2.800 m	1.702 m	3.625 m	2.800 m	1
X-direction	3 pcs., Center - center, 3.404 m	5.106 m	3.625 m	2.800 m	2
Y-direction	1 pcs., Center - center, 6.950 m	8.510 m	3.625 m	2.800 m	3
Arrangement	A1				

Building 1 · Story 1 · Koridor

Luminaire list Φ_{total}

12183 lm

 P_{total}

102.0 W

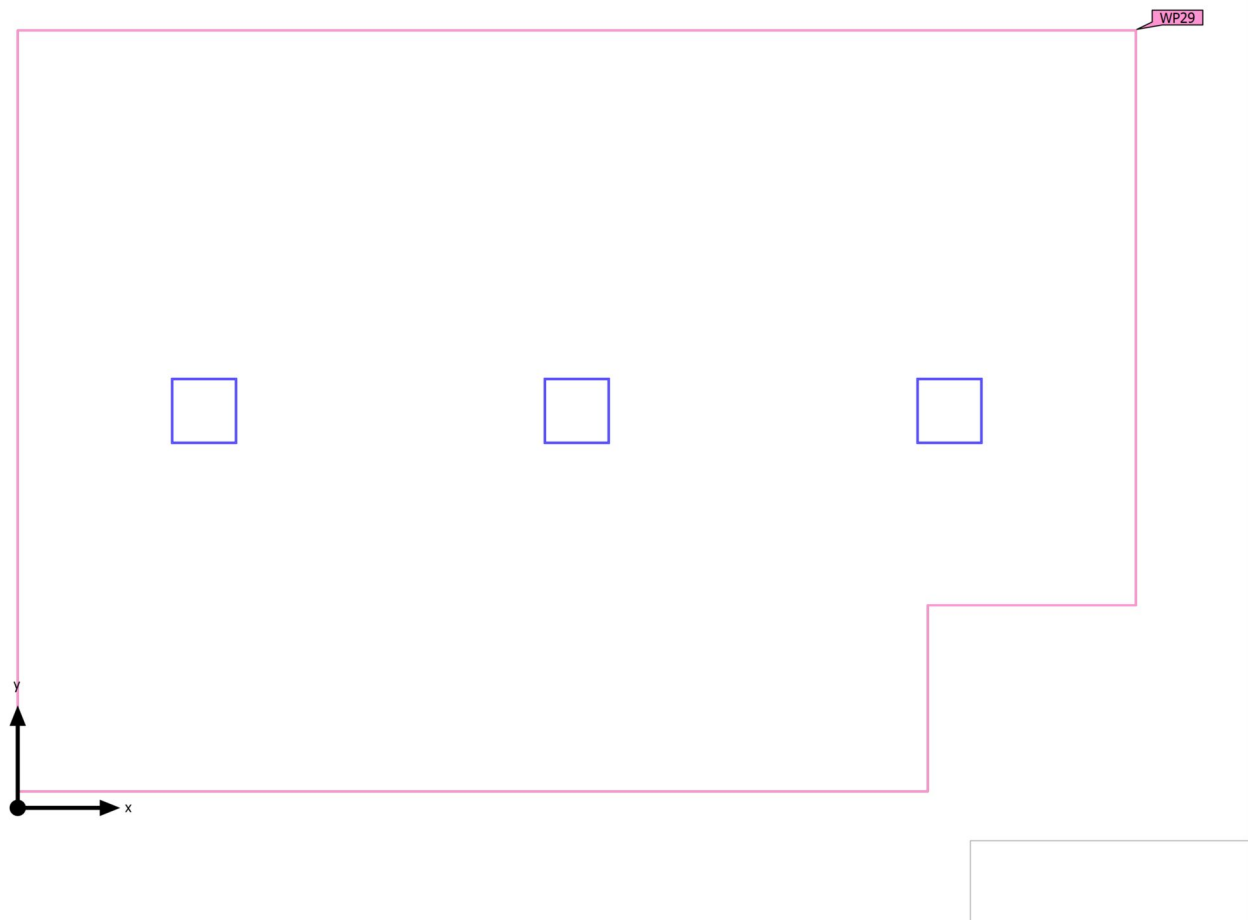
Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	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

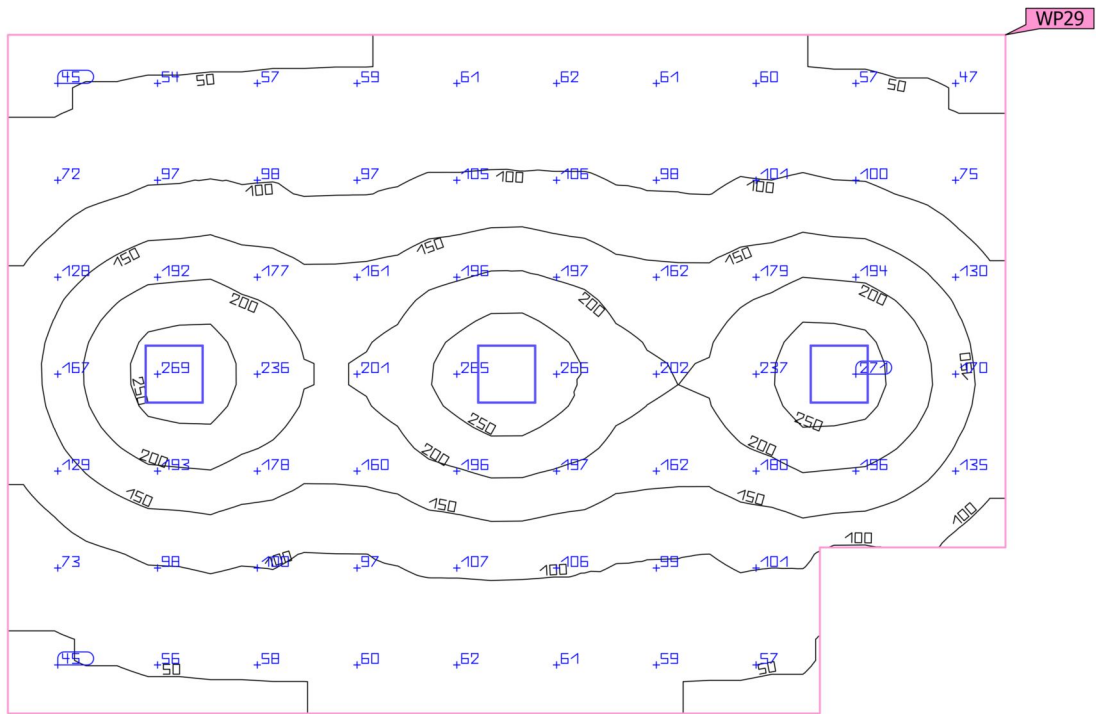
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridor)	127 lx	38.8 lx	286 lx	0.31	0.14	WP29
Perpendicular illuminance (adaptive)	(≥ 100 lx)			(≥ 0.40)		
Height: 0.000 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Rooms for general use (5.37.3 Corridors: Cleaning)

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

Working plane (Koridor)

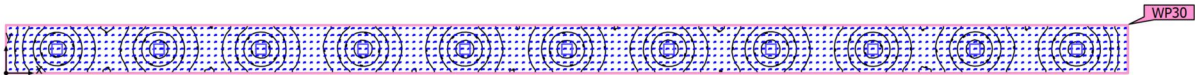


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridor)	127 lx	38.8 lx	286 lx	0.31	0.14	WP29
Perpendicular illuminance (adaptive)	(≥ 100 lx)			(≥ 0.40)		
Height: 0.000 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Rooms for general use (5.37.3 Corridors: Cleaning)

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

Summary



Ground area	176.69 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.000 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	143 lx	≥ 100 lx	✓	WP30
	g_1	0.42	≥ 0.40	✓	WP30
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	21	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	411 kWh/a	max. 6200 kWh/a	✓	
Room	Lighting power density	2.12 W/m ²	–		
		1.48 W/m ² /100 lx	–		

(1) Based on a rectangular space of 2.750 m x 64.250 m and SHR of 0.25.

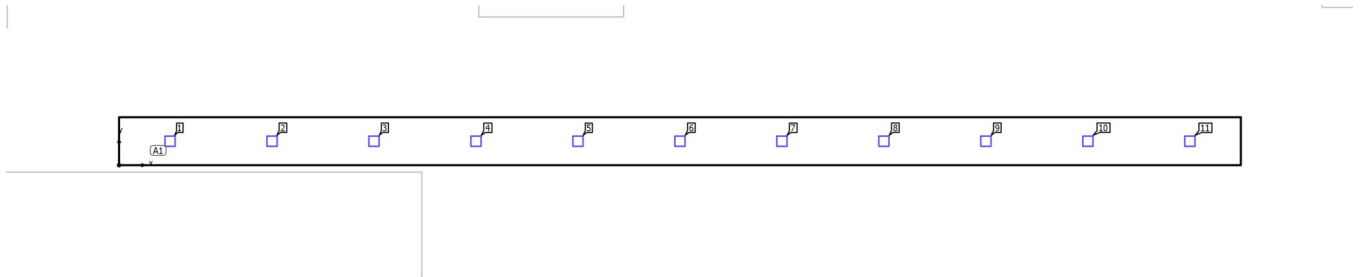
(2) Calculated using DIN:18599-4.

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

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
11	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	21	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

11 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)	2.920 m / 1.375 m / 2.800 m	2.920 m	1.375 m	2.800 m	1
X-direction	11 pcs., Center - center, 5.841 m	8.761 m	1.375 m	2.800 m	2
		14.602 m	1.375 m	2.800 m	3
Y-direction	1 pcs., Center - center, 2.750 m	20.443 m	1.375 m	2.800 m	4
		26.284 m	1.375 m	2.800 m	5
		32.125 m	1.375 m	2.800 m	6
		37.966 m	1.375 m	2.800 m	7
		43.807 m	1.375 m	2.800 m	8
		49.648 m	1.375 m	2.800 m	9
		55.489 m	1.375 m	2.800 m	10
		61.330 m	1.375 m	2.800 m	11

Building 1 · Story 1 · Koridor

Luminaire list Φ_{total}

44671 lm

 P_{total}

374.0 W

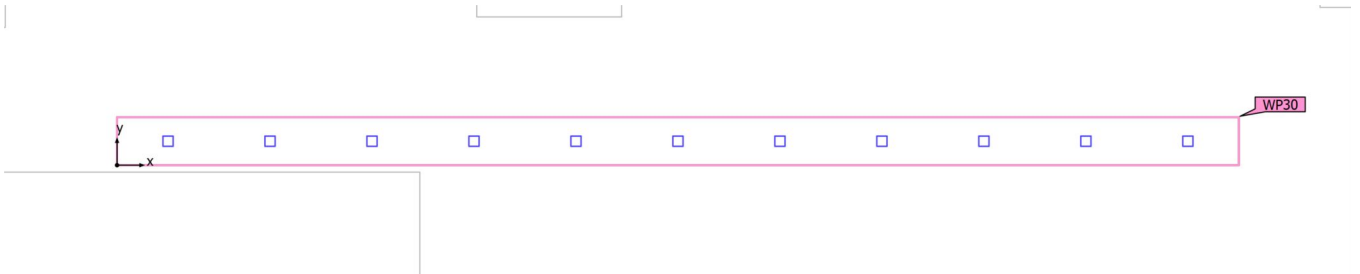
Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
11	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 (Target)	g_2	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	143 lx (≥ 100 lx) ✓	60.7 lx	271 lx	0.42 (≥ 0.40) ✓	0.22	WP30

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

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

Working plane (Koridor)

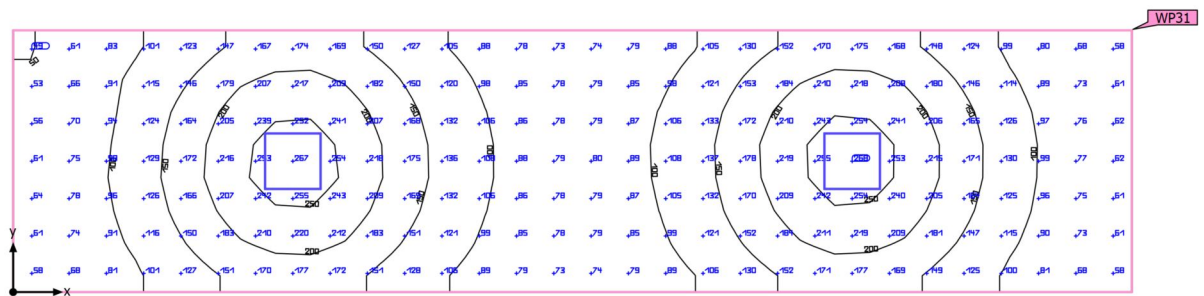


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	143 lx (≥ 100 lx) ✓	60.7 lx	271 lx	0.42 (≥ 0.40) ✓	0.22	WP30

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

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

Summary



Ground area	32.31 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	0.000 m
		Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	137 lx	≥ 100 lx	✓	WP31
	g_1	0.36	≥ 0.40	✗	WP31
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	20	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	74.8 kWh/a	max. 1150 kWh/a	✓	
Room	Lighting power density	2.10 W/m ²	–		
		1.54 W/m ² /100 lx	–		

(1) Based on a rectangular space of 2.750 m x 11.750 m and SHR of 0.25.

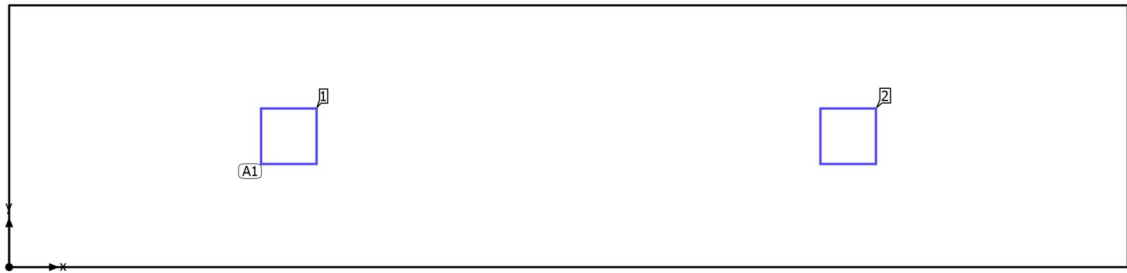
(2) Calculated using DIN:18599-4.

Utilization profile: Health care premises - Rooms for general use (5.37.3 Corridors: Cleaning)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
2	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	20	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		

2 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)	2.938 m / 1.375 m / 2.800 m	2.938 m	1.375 m	2.800 m	1
X-direction	2 pcs., Center - center, 5.875 m	8.813 m	1.375 m	2.800 m	2
Y-direction	1 pcs., Center - center, 2.750 m				
Arrangement	A1				

Building 1 · Story 1 · Koridor

Luminaire list Φ_{total}

8122 lm

 P_{total}

68.0 W

Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	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)

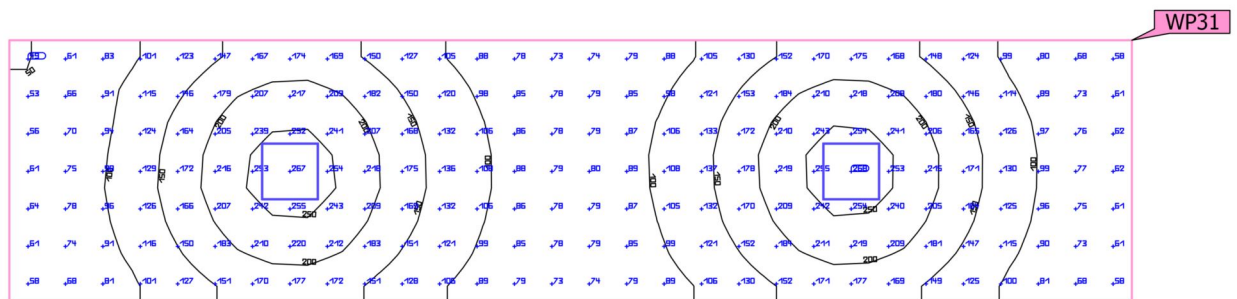
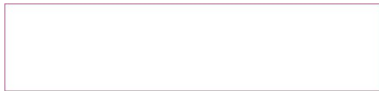
Calculation objects

Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridor)	137 lx	49.2 lx	268 lx	0.36	0.18	WP31
Perpendicular illuminance (adaptive)	(≥ 100 lx)			(≥ 0.40)		
Height: 0.000 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Rooms for general use (5.37.3 Corridors: Cleaning)

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

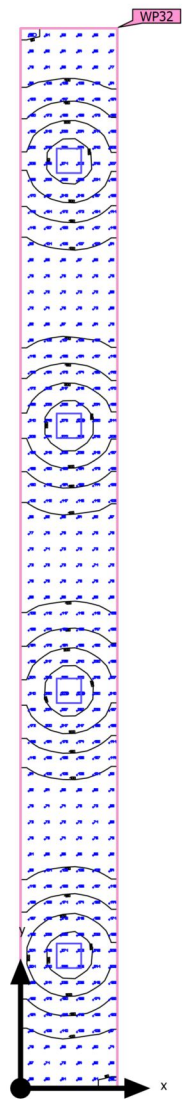
Working plane (Koridor)

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridor)	137 lx	49.2 lx	268 lx	0.36	0.18	WP31
Perpendicular illuminance (adaptive)	≥ 100 lx			≥ 0.40		
Height: 0.000 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Rooms for general use (5.37.3 Corridors: Cleaning)

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

Summary



Ground area	57.96 m²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.000 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	142 lx	$\geq 100 \text{ lx}$	✓	WP32
	g_1	0.34	≥ 0.40	✗	WP32
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	21	≤ 22	✓	
Consumption values ⁽²⁾	Consumption	150 kWh/a	max. 2050 kWh/a	✓	
Room	Lighting power density	2.35 W/m ²	–		
		1.65 W/m ² /100 lx	–		

(1) Based on a rectangular space of 2.300 m x 25.200 m and SHR of 0.25.

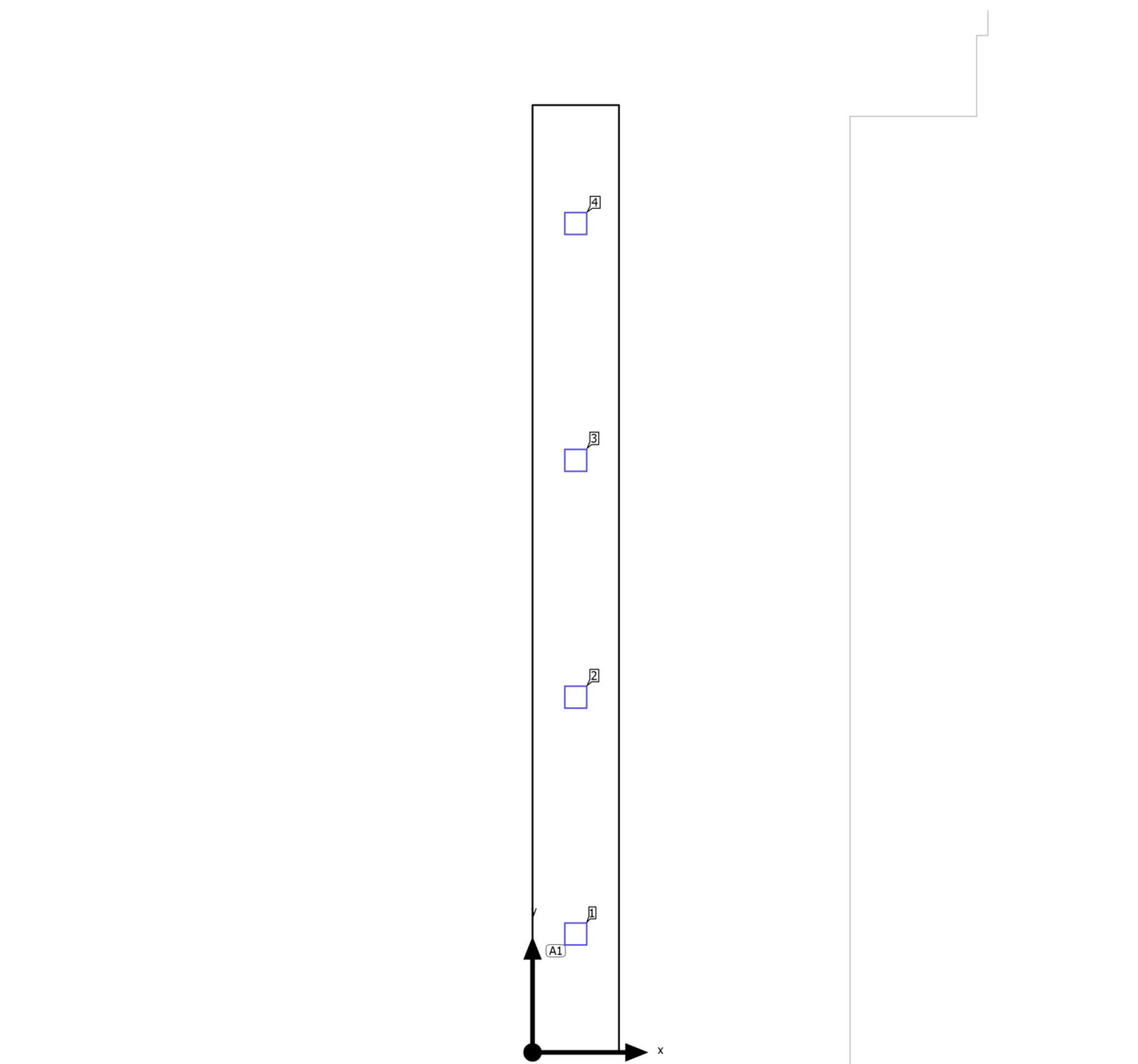
(2) Calculated using DIN:18599-4.

Utilization profile: Health care premises - Rooms for general use (5.37.3 Corridors: Cleaning)

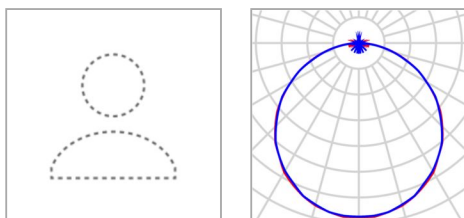
Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	21	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		

4 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)	1.150 m / 3.150 m / 2.800 m	1.150 m	3.150 m	2.800 m	1
X-direction	1 pcs., Center - center, 2.300 m	1.150 m	9.450 m	2.800 m	2
Y-direction	4 pcs., Center - center, 6.300 m	1.150 m	15.750 m	2.800 m	3
		1.150 m	22.050 m	2.800 m	4
Arrangement	A1				

Building 1 · Story 1 · Koridor

Luminaire list Φ_{total}

16244 lm

 P_{total}

136.0 W

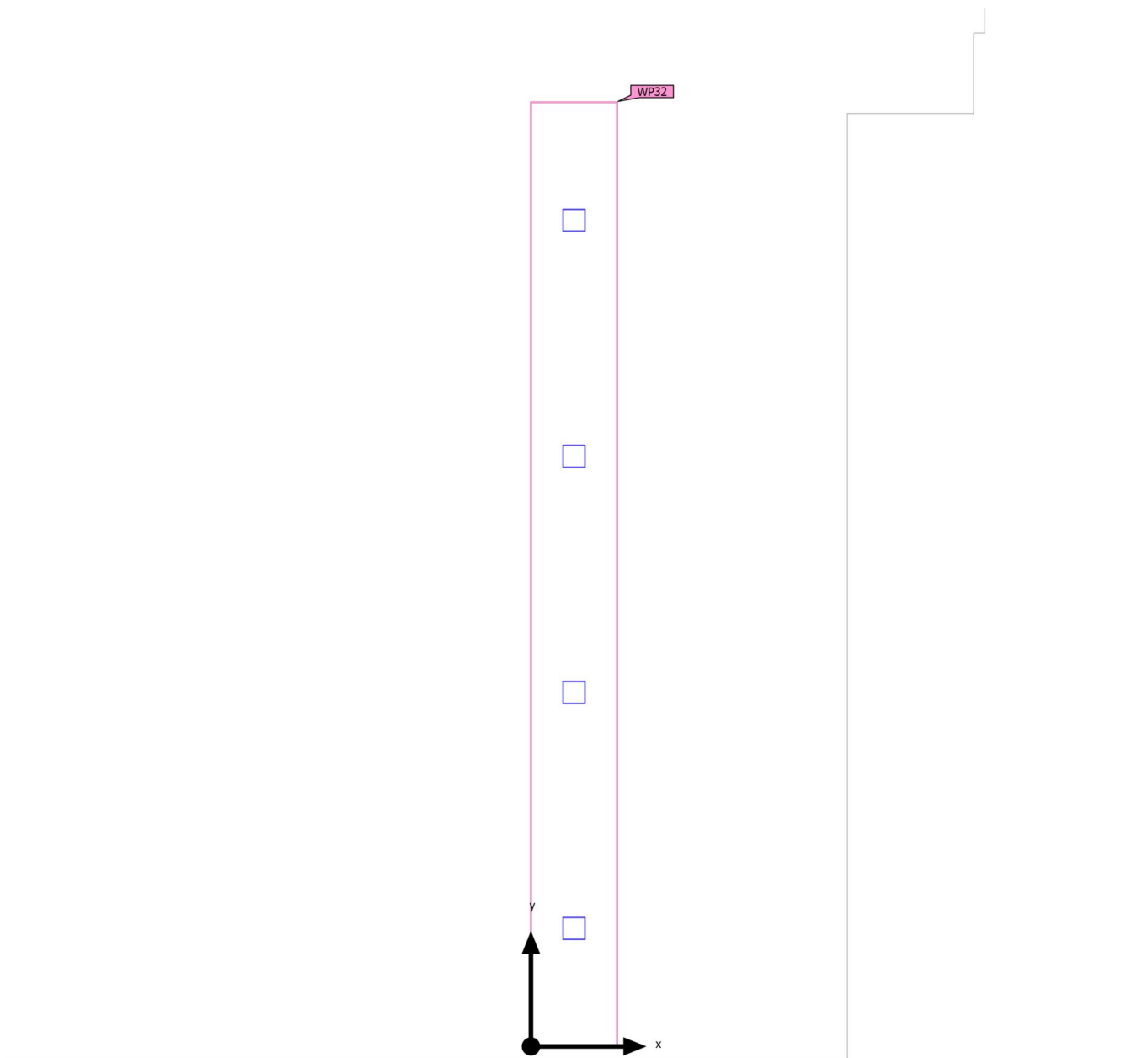
Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	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

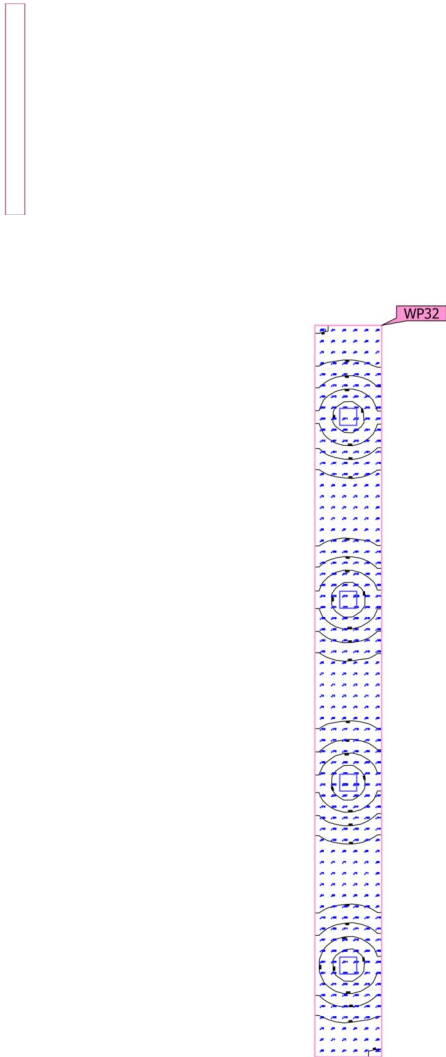
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridor)	142 lx	48.1 lx	278 lx	0.34	0.17	WP32
Perpendicular illuminance (adaptive)	(≥ 100 lx)			(≥ 0.40)		
Height: 0.000 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Rooms for general use (5.37.3 Corridors: Cleaning)

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

Working plane (Koridor)

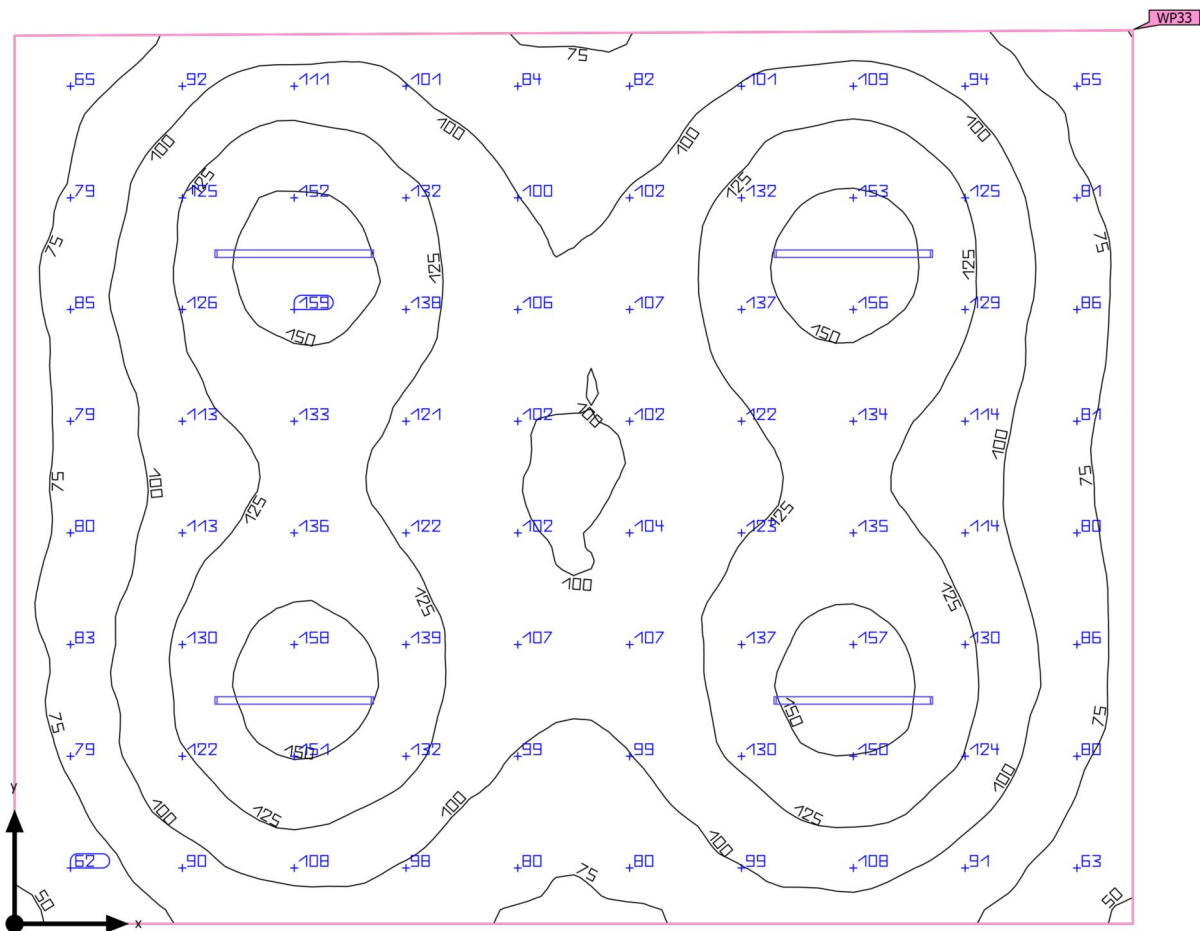


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	142 lx (≥ 100 lx) ✓	48.1 lx	278 lx	0.34 (≥ 0.40) ✗	0.17	WP32

Utilization profile: Health care premises - Rooms for general use (5.37.3 Corridors: Cleaning)

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

Summary



Ground area	87.82 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.000 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	109 lx	≥ 100 lx	✓	WP33
	g_1	0.44	≥ 0.40	✓	WP33
Consumption values ⁽²⁾	Consumption	123 kWh/a	max. 3100 kWh/a	✓	
Room	Lighting power density	1.28 W/m ²	–		
		1.17 W/m ² /100 lx	–		

(1) Based on a rectangular space of 8.390 m x 10.498 m and SHR of 0.25.

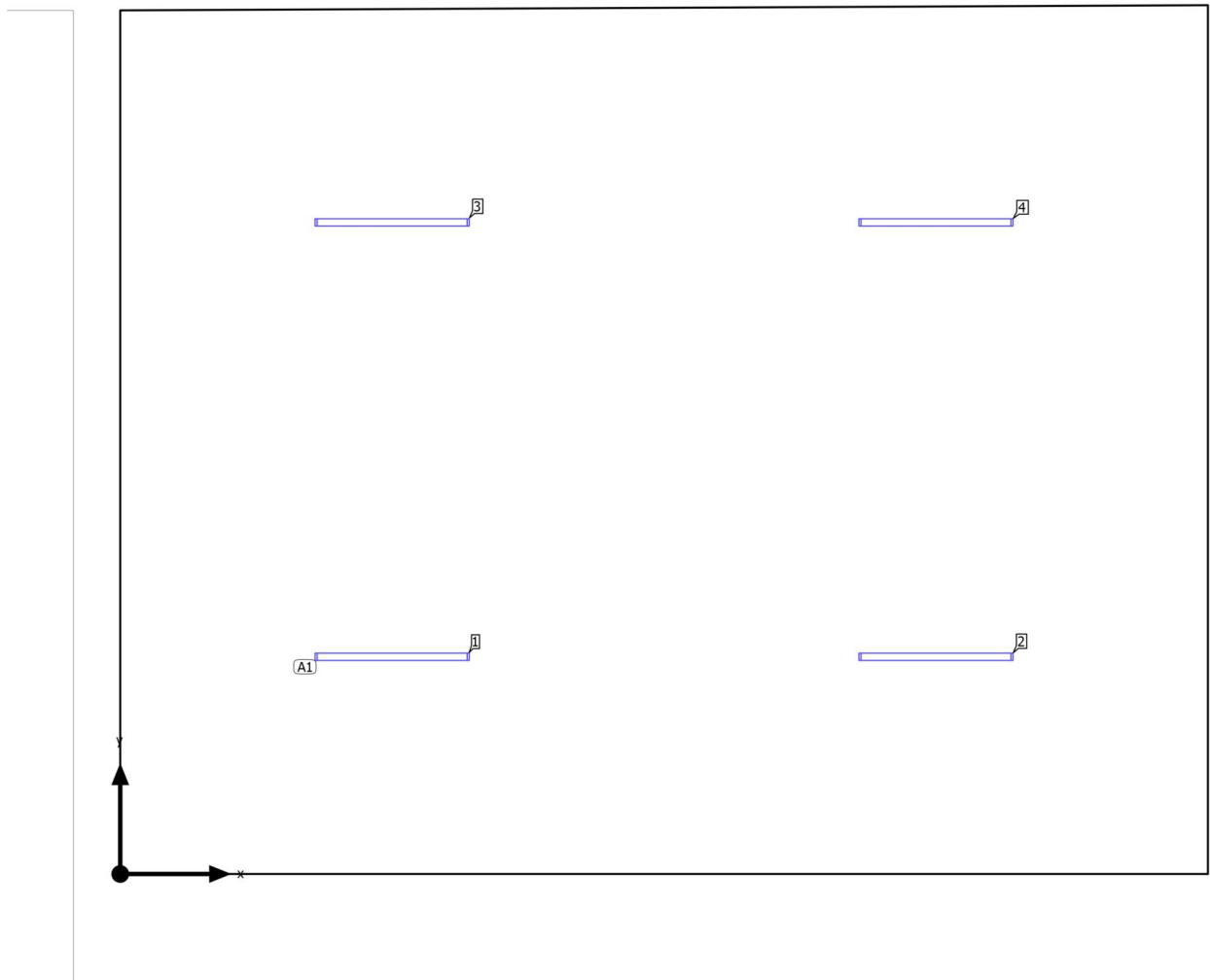
(2) Calculated using DIN:18599-4.

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

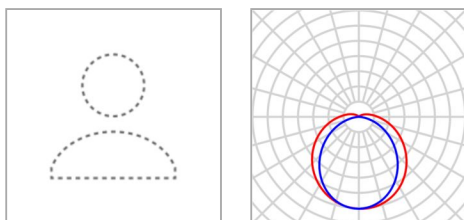
Luminaire list

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

Building 1 · Story 1 · Koridor
Luminaire layout plan



Building 1 · Story 1 · Koridor

Luminaire layout plan

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

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

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	2.625 m / 2.098 m / 2.800 m	2.625 m	2.098 m	2.800 m	1
X-direction	2 pcs., Center - center, 5.249 m	7.874 m	2.098 m	2.800 m	2
Y-direction	2 pcs., Center - center, 4.195 m	2.625 m	6.293 m	2.800 m	3
		7.874 m	6.293 m	2.800 m	4
Arrangement	A1				

Building 1 · Story 1 · Koridor

Luminaire list Φ_{total}

15200 lm

 P_{total}

112.0 W

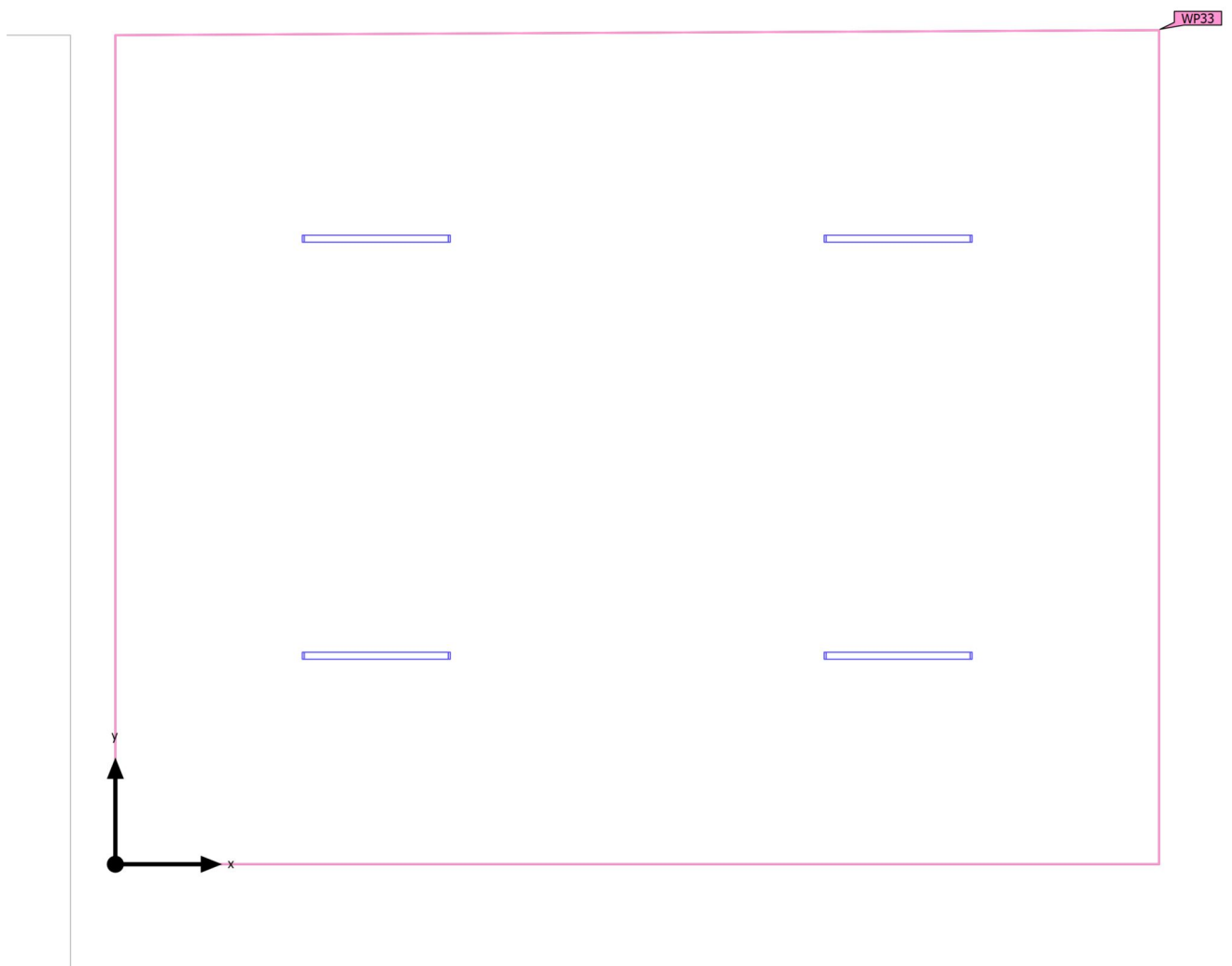
Luminous efficacy

135.7 lm/W

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

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

Calculation objects



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

Calculation objects

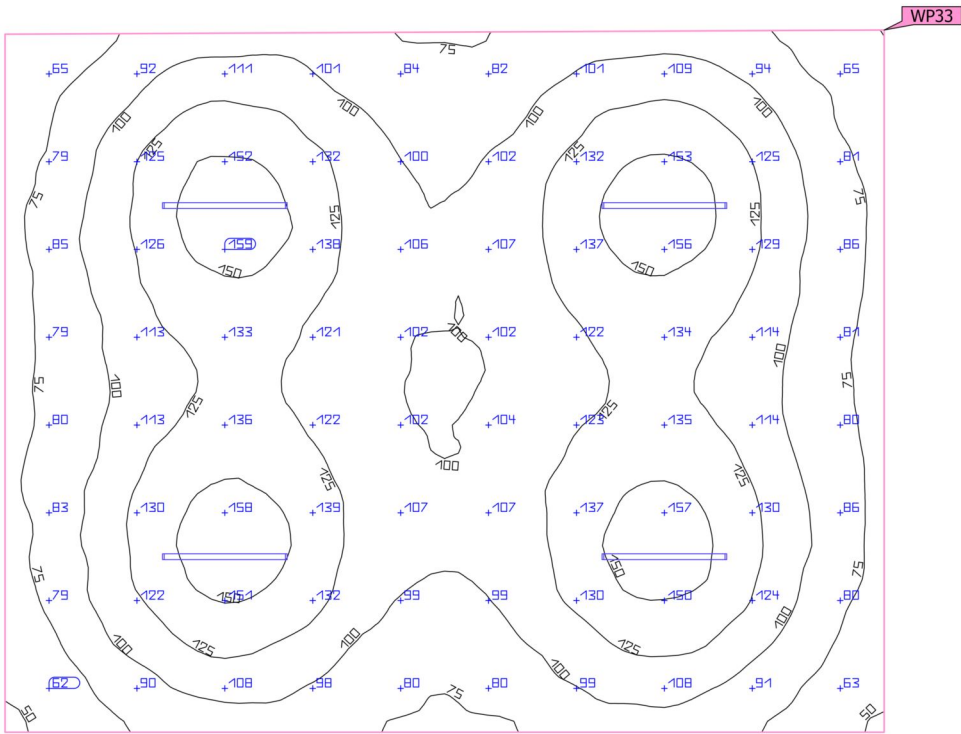
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	109 lx (≥ 100 lx) ✓	47.5 lx	162 lx	0.44 (≥ 0.40) ✓	0.29	WP33

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

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

Working plane (Koridor)

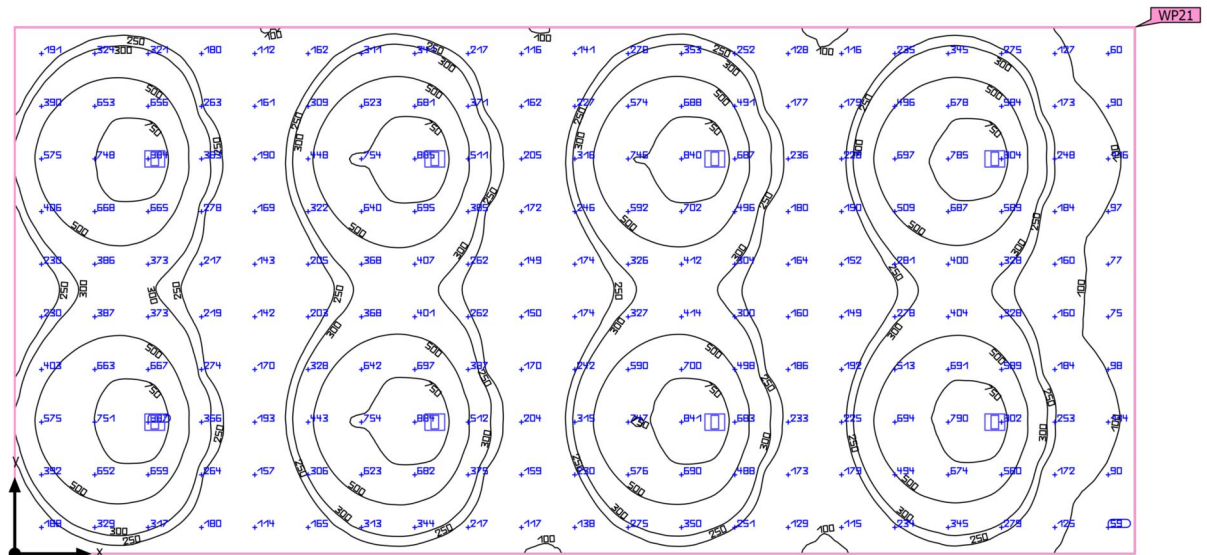


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Koridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	109 lx (≥ 100 lx) ✓	47.5 lx	162 lx	0.44 (≥ 0.40) ✓	0.29	WP33

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

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

Summary



Ground area	160.98 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	1.000 m
		Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	369 lx	≥ 300 lx	✓	WP21
	g_1	0.13	≥ 0.60	✗	WP21
Consumption values ⁽²⁾	Consumption	2171 kWh/a	max. 5650 kWh/a	✓	
Room	Lighting power density	3.33 W/m ²	–		
		0.90 W/m ² /100 lx	–		

(1) Based on a rectangular space of 8.700 m x 18.503 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

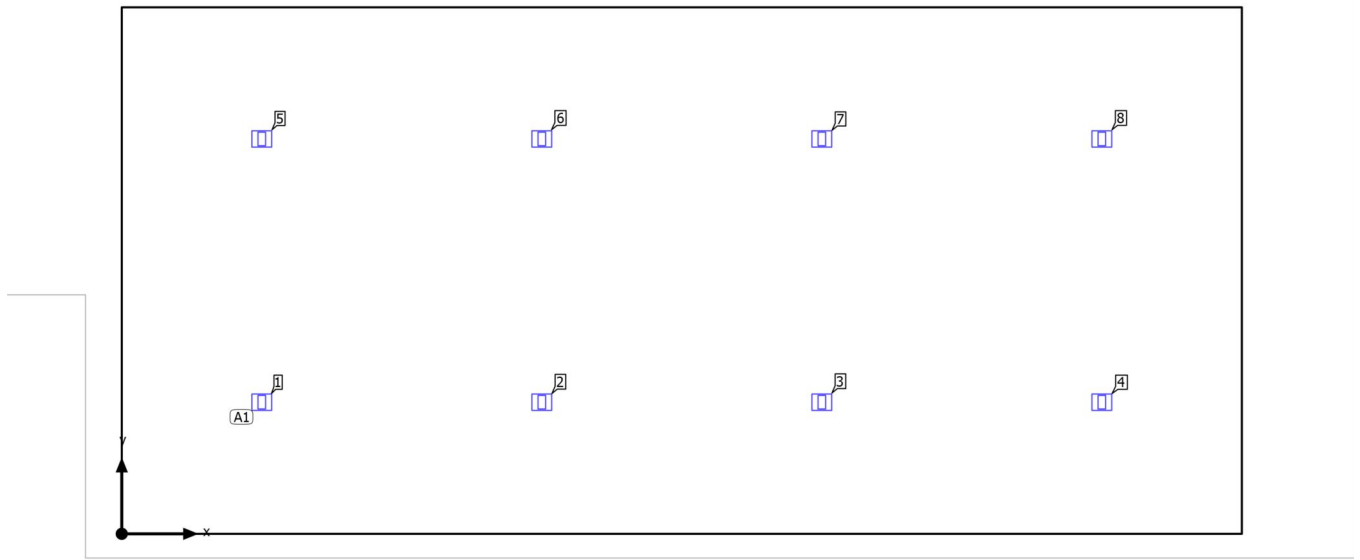
Utilization profile: Educational premises - Educational buildings (5.36.24 Sports halls, gymnasiums, swimming pools)

Luminaire list

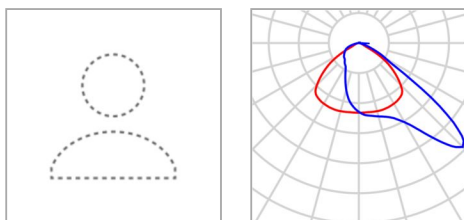
pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Φ	Luminous efficacy
8	Not yet a DIALux member	2824062	RAIDEN IP66 8KLM 840 ASYM	–	67.0 W	8700 lm	129.9 lm/W

Building 1 · Story 1 · Salle Sportive

Luminaire layout plan



Building 1 · Story 1 · Salle 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

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

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	2.313 m / 2.175 m / 2.800 m	2.313 m	2.175 m	2.800 m	1
X-direction	4 pcs., Center - center, 4.626 m	6.939 m	2.175 m	2.800 m	2
		11.564 m	2.175 m	2.800 m	3
Y-direction	2 pcs., Center - center, 4.350 m	16.190 m	2.175 m	2.800 m	4
Arrangement	A1	2.313 m	6.525 m	2.800 m	5
		6.939 m	6.525 m	2.800 m	6
		11.564 m	6.525 m	2.800 m	7
		16.190 m	6.525 m	2.800 m	8

Building 1 · Story 1 · Salle Sportive

Luminaire list Φ_{total}

69600 lm

 P_{total}

536.0 W

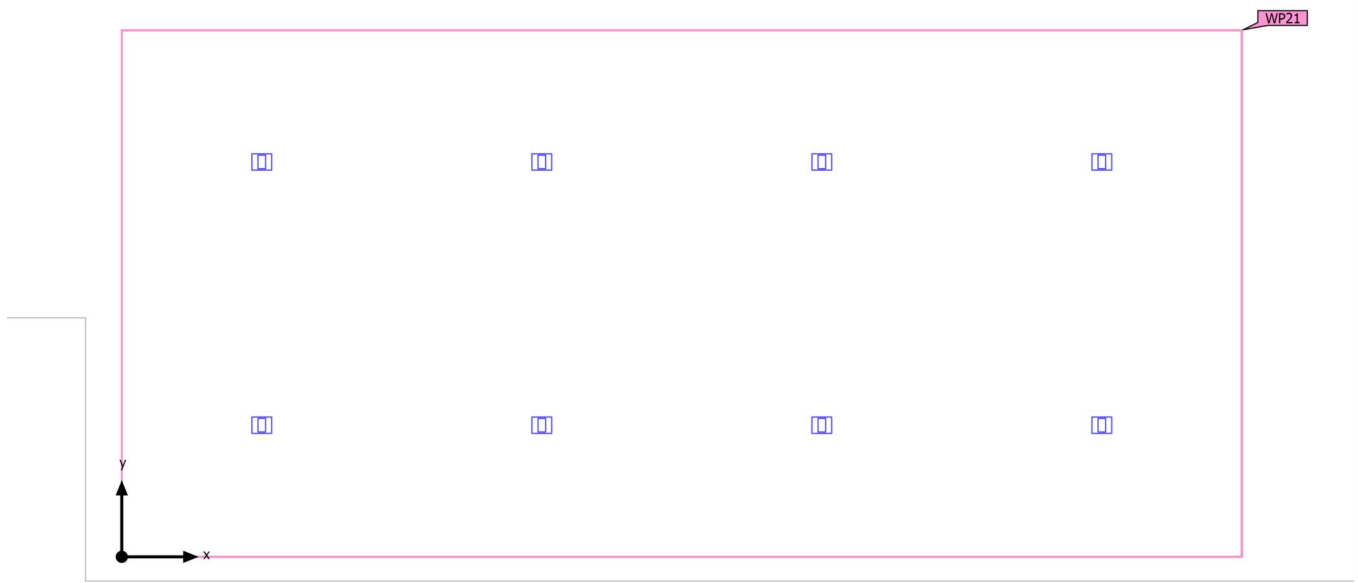
Luminous efficacy

129.9 lm/W

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

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

Calculation objects



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

Calculation objects

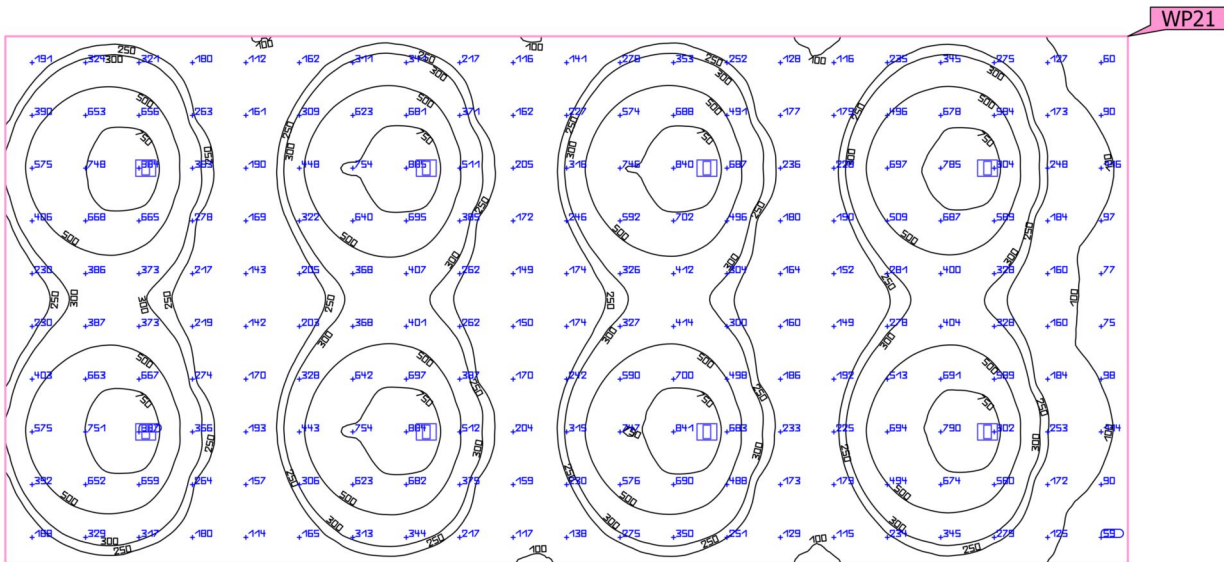
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Salle Sportive) Perpendicular illuminance (adaptive) Height: 1.000 m, Wall zone: 0.000 m	369 lx (≥ 300 lx) ✓	47.3 lx	895 lx	0.13 (≥ 0.60) ✗	0.053	WP21

Utilization profile: Educational premises - Educational buildings (5.36.24 Sports halls, gymnasiums, swimming pools)

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

Working plane (Salle Sportive)

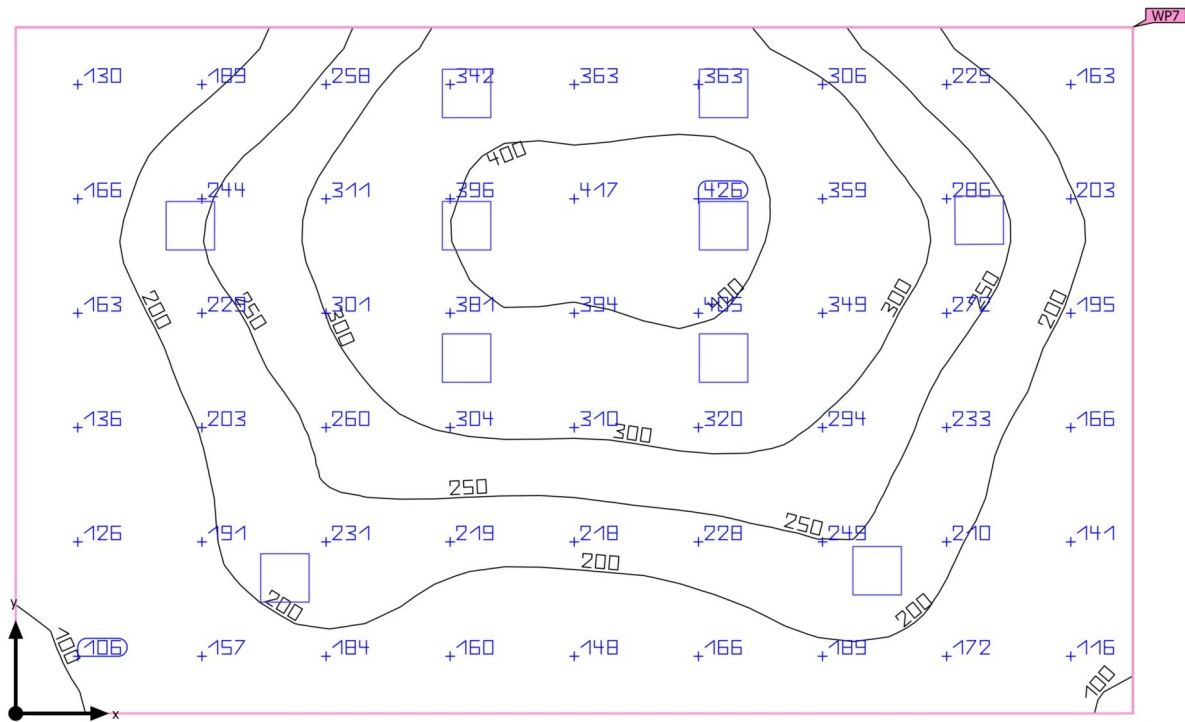


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Salle Sportive)	369 lx	47.3 lx	895 lx	0.13	0.053	WP21
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 1.000 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Educational premises - Educational buildings (5.36.24 Sports halls, gymnasiums, swimming pools)

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

Summary



Ground area	42.33 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	245 lx	≥ 200 lx	✓	WP7
	g_1	0.36	≥ 0.40	✗	WP7
Consumption values ⁽²⁾	Consumption	196 kWh/a	max. 1500 kWh/a	✓	
Room	Lighting power density	5.62 W/m ²	–		
		2.29 W/m ² /100 lx	–		

(1) Based on a rectangular space of 8.300 m x 5.100 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

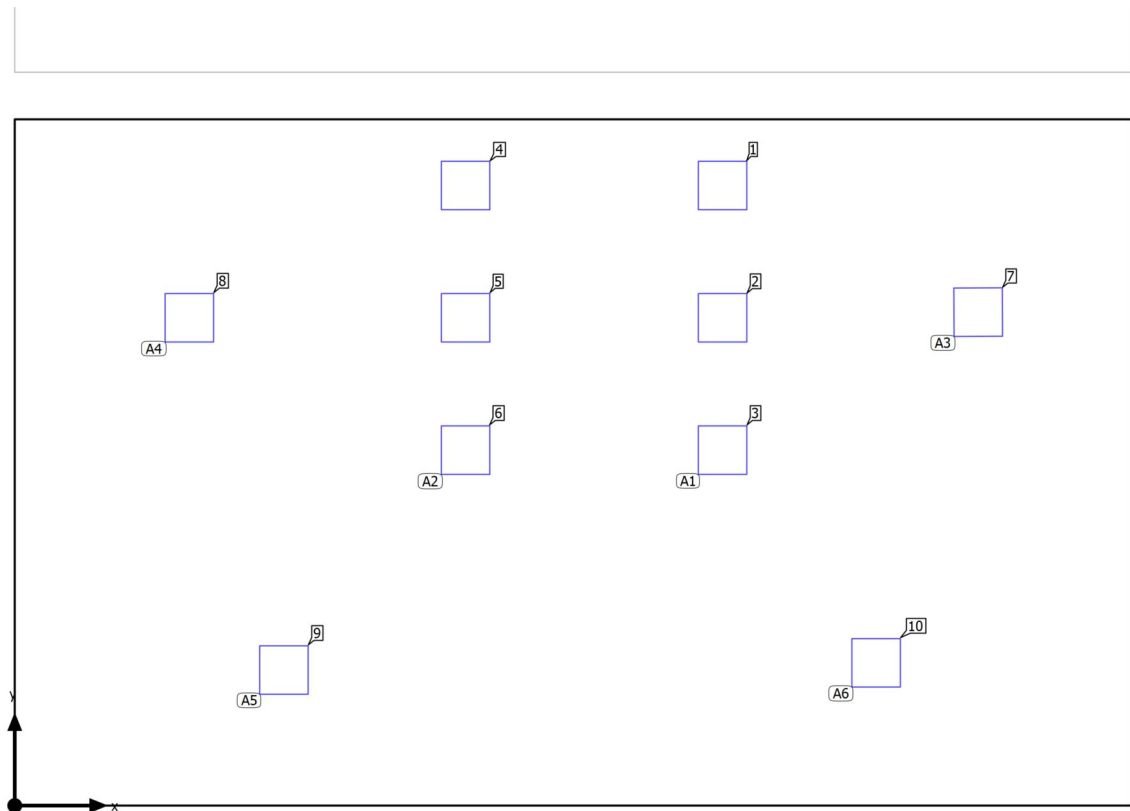
Utilization profile: Health care premises - Wards, maternity wards (5.39.6 Bathrooms and toilets for patients)

Luminaire list

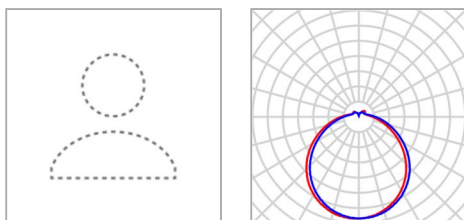
pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Φ	Luminous efficacy
10	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	–	23.8 W	1800 lm	75.6 lm/W

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		

3 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)	5.259 m / 4.608 m / 2.800 m	5.259 m	4.608 m	2.800 m	1
X-direction	3 pcs., Center - center, 0.983 m	5.259 m	3.625 m	2.800 m	2
Arrangement	A1	5.259 m	2.642 m	2.800 m	3

3 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)	3.350 m / 4.608 m / 2.800 m	3.350 m	4.608 m	2.800 m	4
X-direction	3 pcs., Center - center, 0.983 m	3.350 m	3.625 m	2.800 m	5
Arrangement	A2	3.350 m	2.642 m	2.800 m	6

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)	7.158 m / 3.667 m / 2.800 m	7.158 m	3.667 m	2.800 m	7
X-direction	1 pcs., Center - center, 2.866 m				
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)	1.297 m / 3.625 m / 2.800 m	1.297 m	3.625 m	2.800 m	8
X-direction	1 pcs., Center - center, 2.950 m				
Arrangement	A4				

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)	2.000 m / 1.007 m / 2.800 m	2.000 m	1.007 m	2.800 m	9
X-direction	1 pcs., Center - center, 4.000 m				
Arrangement	A5				

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)	6.400 m / 1.061 m / 2.800 m	6.400 m	1.061 m	2.800 m	10
X-direction	1 pcs., Center - center, 3.800 m				
Arrangement	A6				

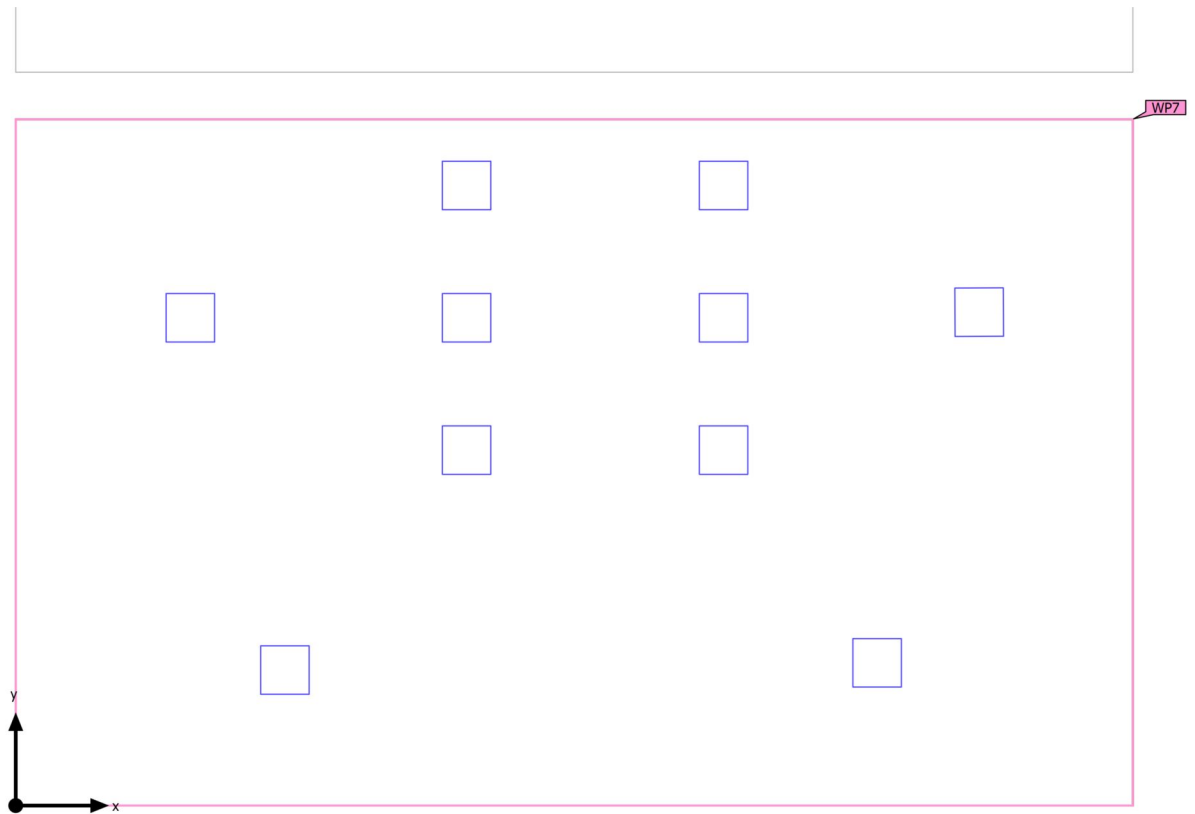
Building 1 · Story 1 · Tualet

Luminaire list

Φ_{total} 18000 lm	P_{total} 238.0 W	Luminous efficacy 75.6 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
10	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

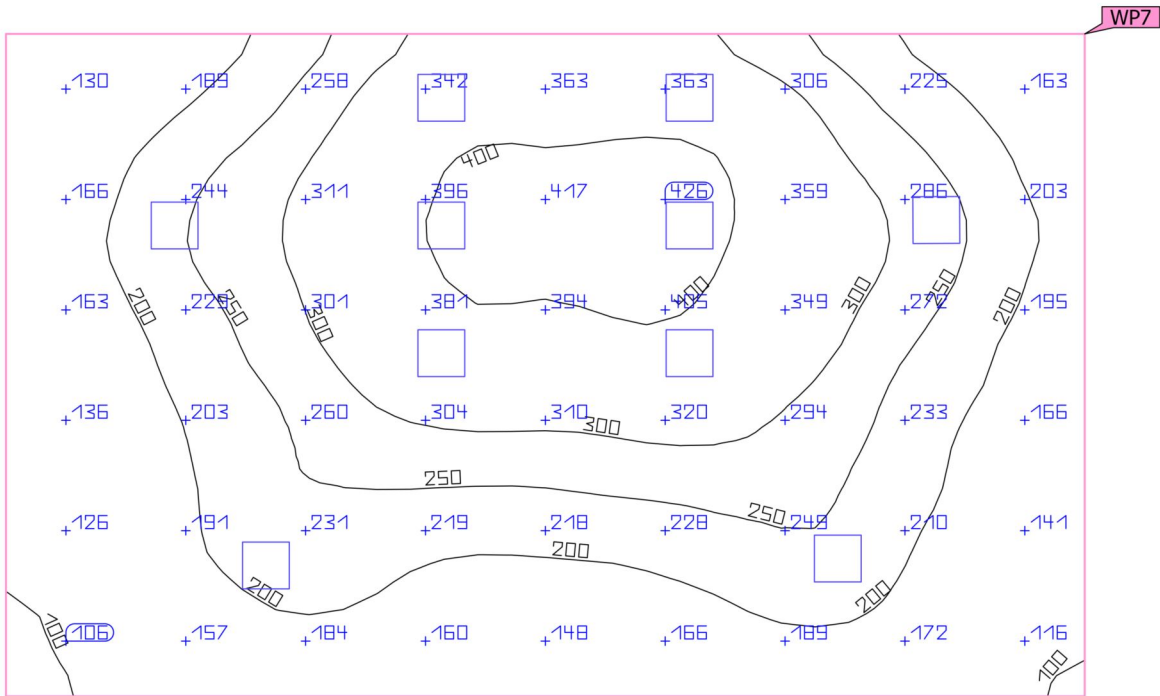
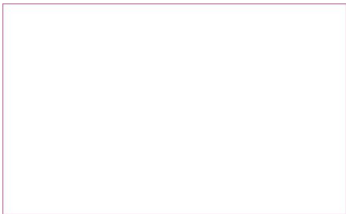
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Tualet)	245 lx	89.2 lx	425 lx	0.36	0.21	WP7
Perpendicular illuminance (adaptive)	(≥ 200 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Wards, maternity wards (5.39.6 Bathrooms and toilets for patients)

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

Working plane (Tualet)

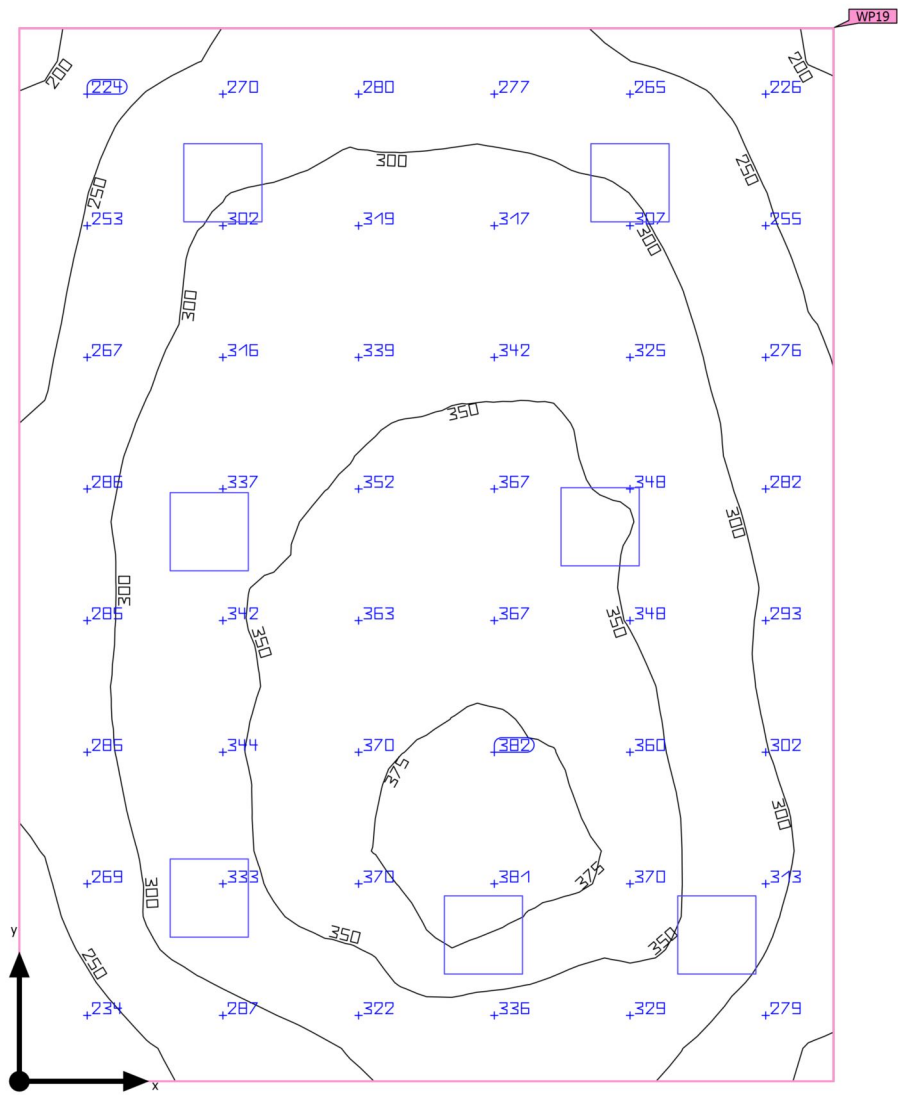


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Tualet)	245 lx	89.2 lx	425 lx	0.36	0.21	WP7
Perpendicular illuminance (adaptive)	(≥ 200 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

Utilization profile: Health care premises - Wards, maternity wards (5.39.6 Bathrooms and toilets for patients)

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

Summary



Ground area	18.19 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	312 lx	≥ 200 lx	✓	WP19
	g_1	0.62	≥ 0.40	✓	WP19
Consumption values ⁽²⁾	Consumption	137 kWh/a	max. 650 kWh/a	✓	
Room	Lighting power density	9.16 W/m ²	–		
		2.94 W/m ² /100 lx	–		

(1) Based on a rectangular space of 3.750 m x 4.850 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

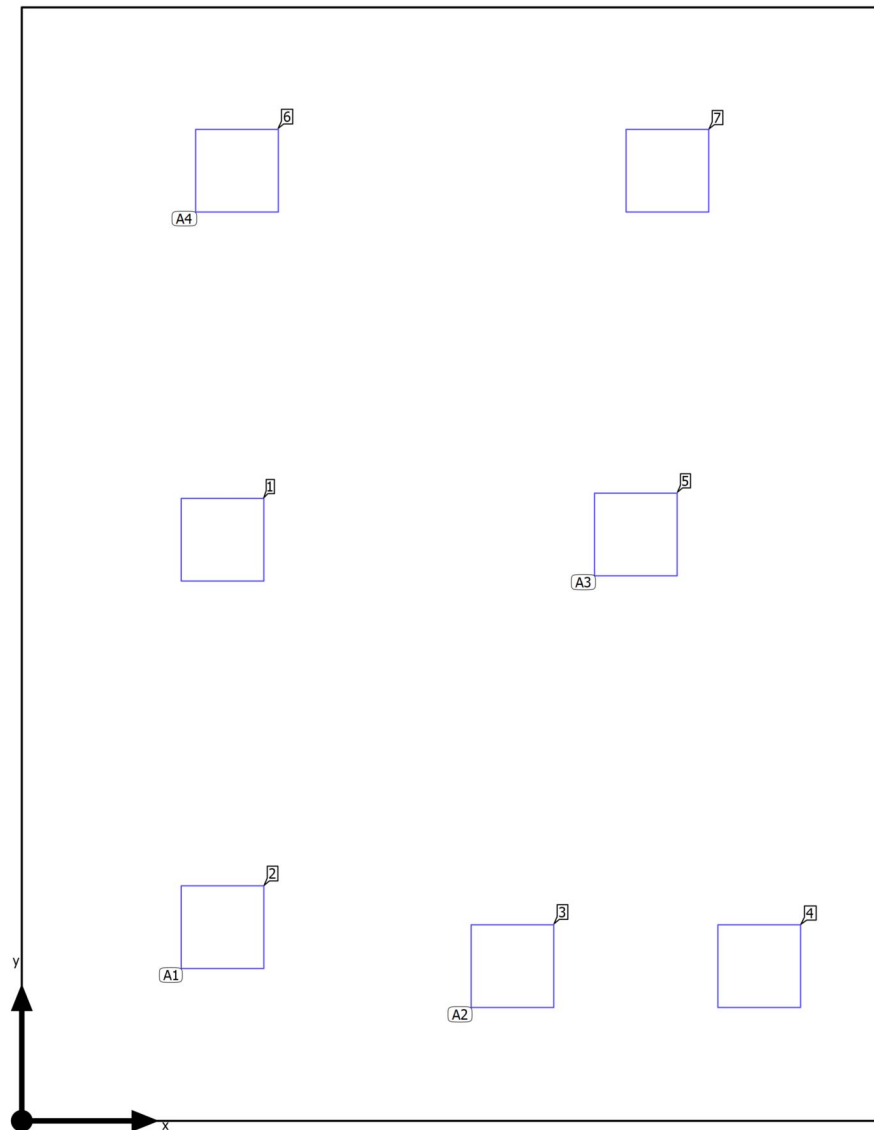
Utilization profile: Health care premises - Wards, maternity wards (5.39.6 Bathrooms and toilets for patients)

Luminaire list

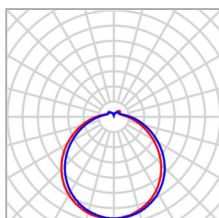
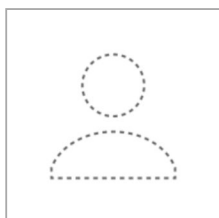
pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Φ	Luminous efficacy
7	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	–	23.8 W	1800 lm	75.6 lm/W

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)	0.875 m / 2.531 m / 2.800 m	0.875 m	2.531 m	2.800 m	1
X-direction	2 pcs., Center - center, 1.688 m	0.875 m	0.844 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)	2.138 m / 0.674 m / 2.800 m	2.138 m	0.674 m	2.800 m	3
X-direction	2 pcs., Center - center, 1.075 m	3.213 m	0.674 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)	2.675 m / 2.554 m / 2.800 m	2.675 m	2.554 m	2.800 m	5
X-direction	1 pcs., Center - center, 2.150 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)	0.938 m / 4.139 m / 2.800 m	0.938 m	4.139 m	2.800 m	6
X-direction	2 pcs., Center - center, 1.875 m	2.813 m	4.139 m	2.800 m	7
Arrangement	A4				

Building 1 · Story 1 · Tualet

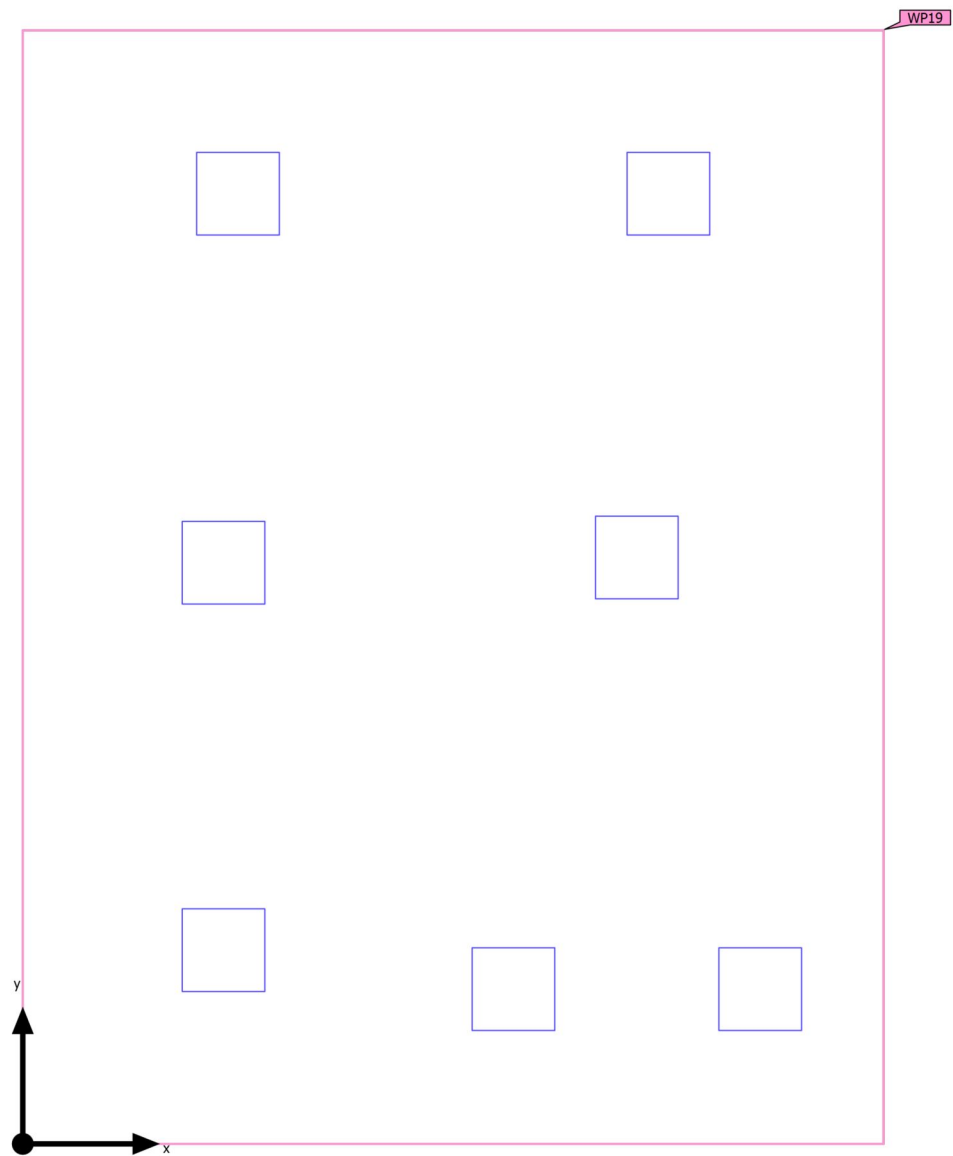
Luminaire list

Φ_{total} 12600 lm	P_{total} 166.6 W	Luminous efficacy 75.6 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	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

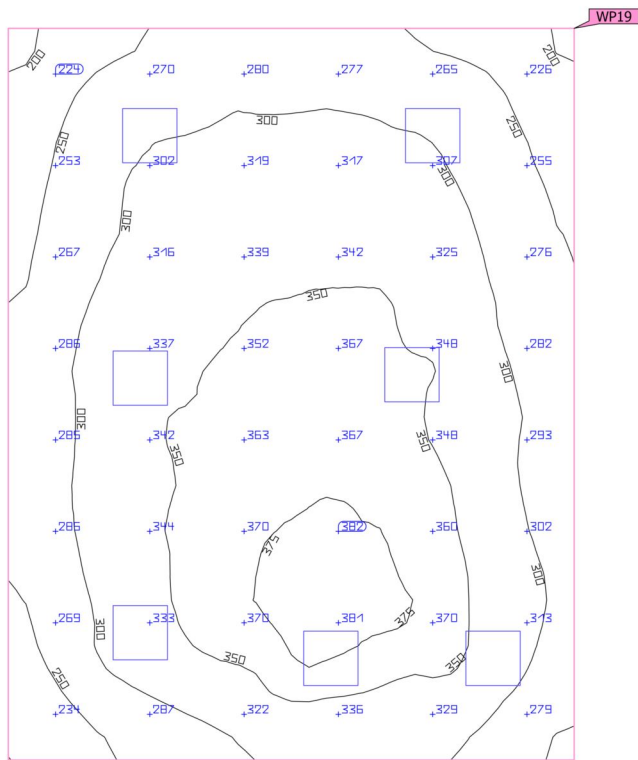
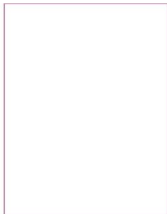
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Tualet) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	312 lx (≥ 200 lx) ✓	192 lx	390 lx	0.62 (≥ 0.40) ✓	0.49	WP19

Utilization profile: Health care premises - Wards, maternity wards (5.39.6 Bathrooms and toilets for patients)

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

Working plane (Tualet)

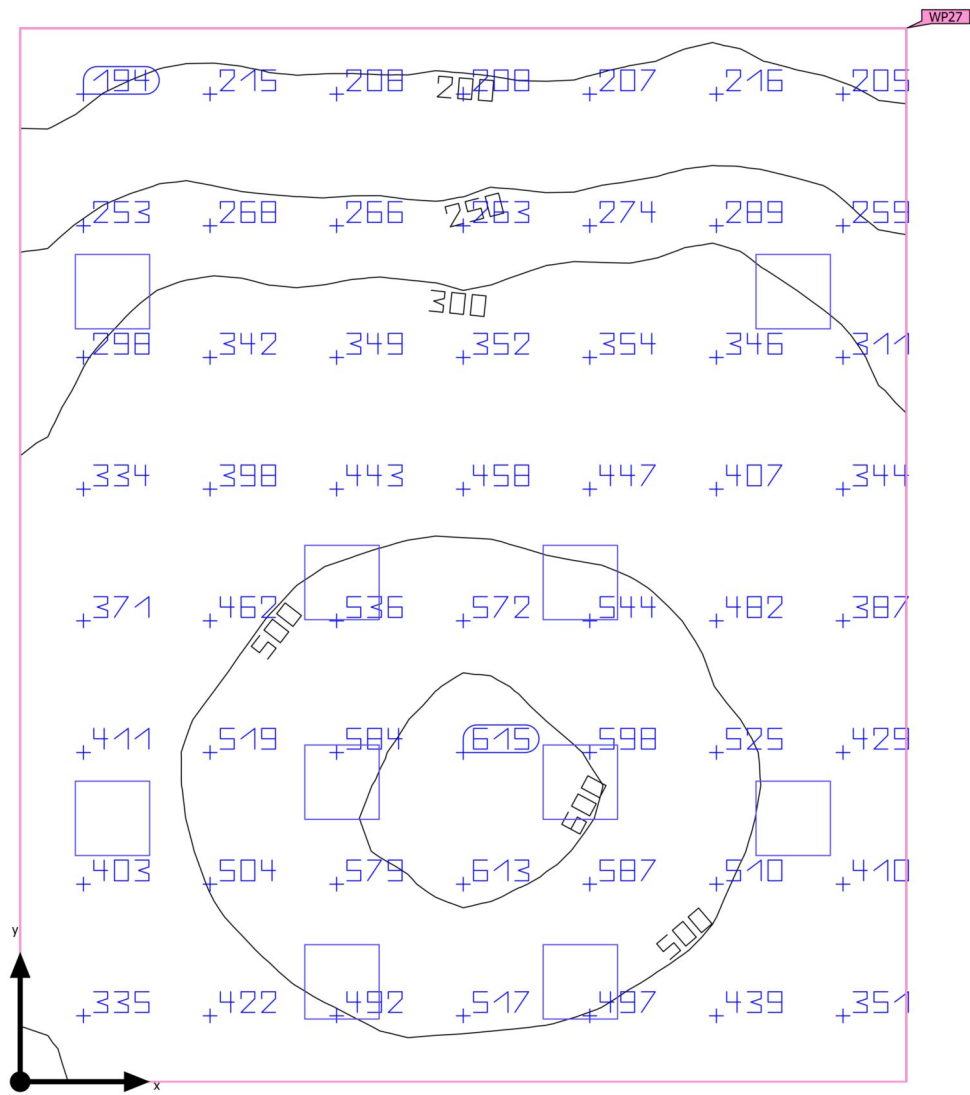


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Tualet)	312 lx	192 lx	390 lx	0.62	0.49	WP19
Perpendicular illuminance (adaptive)	(≥ 200 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

Utilization profile: Health care premises - Wards, maternity wards (5.39.6 Bathrooms and toilets for patients)

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

Summary



Ground area	21.88 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	395 lx	≥ 200 lx	✓	WP27
	g_1	0.44	≥ 0.40	✓	WP27
Consumption values ⁽²⁾	Consumption	196 kWh/a	max. 800 kWh/a	✓	
Room	Lighting power density	10.88 W/m ²	–		
		2.75 W/m ² /100 lx	–		

(1) Based on a rectangular space of 4.290 m x 5.100 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

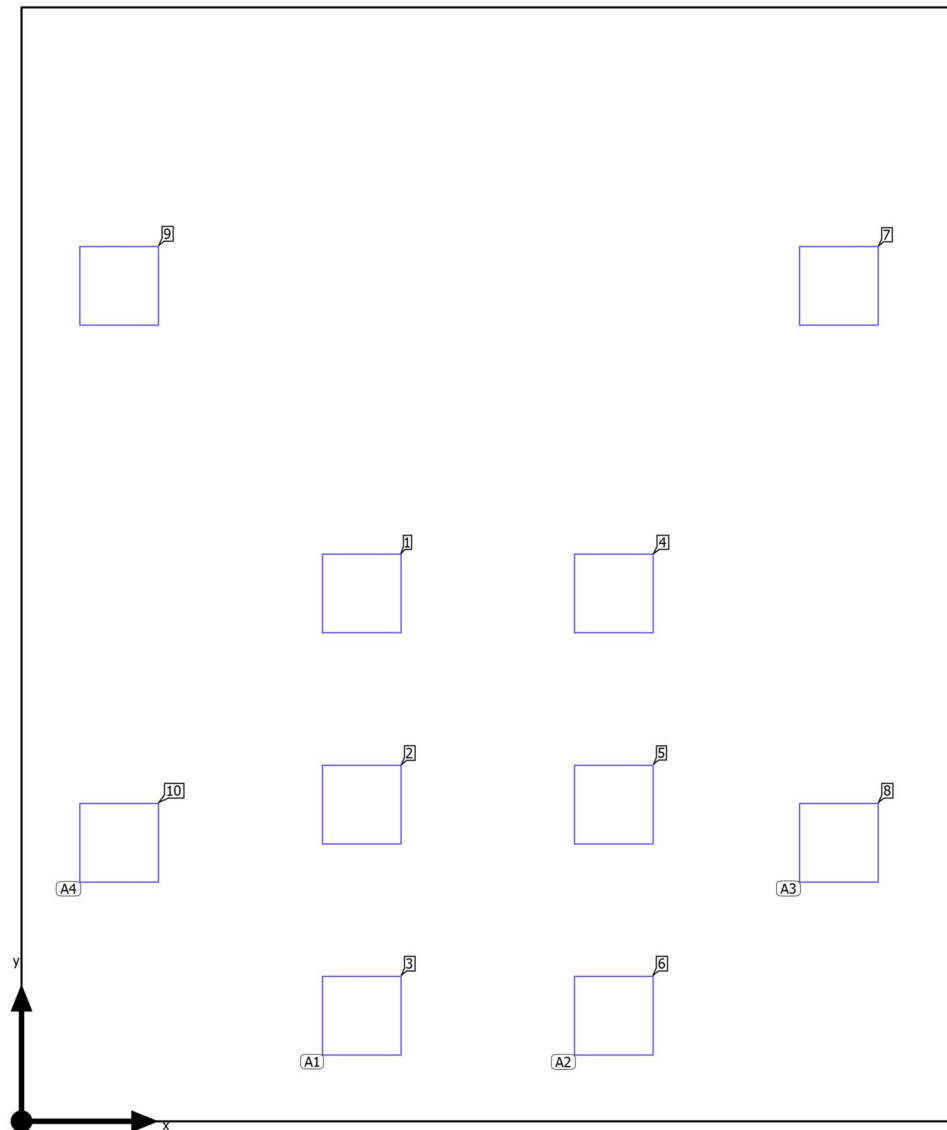
Utilization profile: Health care premises - Wards, maternity wards (5.39.6 Bathrooms and toilets for patients)

Luminaire list

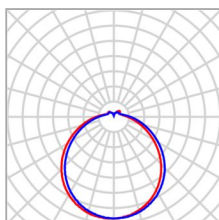
pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Φ	Luminous efficacy
10	Not yet a DIALux member	0043438	Start eco Surface IP44 PIR 1900lm 840 DualTone	–	23.8 W	1800 lm	75.6 lm/W

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

3 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)	1.558 m / 2.417 m / 2.800 m	1.558 m	2.417 m	2.800 m	1
X-direction	3 pcs., Center - center, 0.967 m	1.558 m	1.450 m	2.800 m	2
Arrangement	A1	1.558 m	0.483 m	2.800 m	3

3 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)	2.712 m / 2.417 m / 2.800 m	2.712 m	2.417 m	2.800 m	4
X-direction	3 pcs., Center - center, 0.967 m	2.712 m	1.450 m	2.800 m	5
Arrangement	A2	2.712 m	0.483 m	2.800 m	6

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)	3.742 m / 3.825 m / 2.800 m	3.742 m	3.825 m	2.800 m	7
X-direction	2 pcs., Center - center, 2.550 m	3.742 m	1.275 m	2.800 m	8
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)	0.447 m / 3.825 m / 2.800 m	0.447 m	3.825 m	2.800 m	9
X-direction	2 pcs., Center - center, 2.550 m	0.447 m	1.275 m	2.800 m	10
Arrangement	A4				

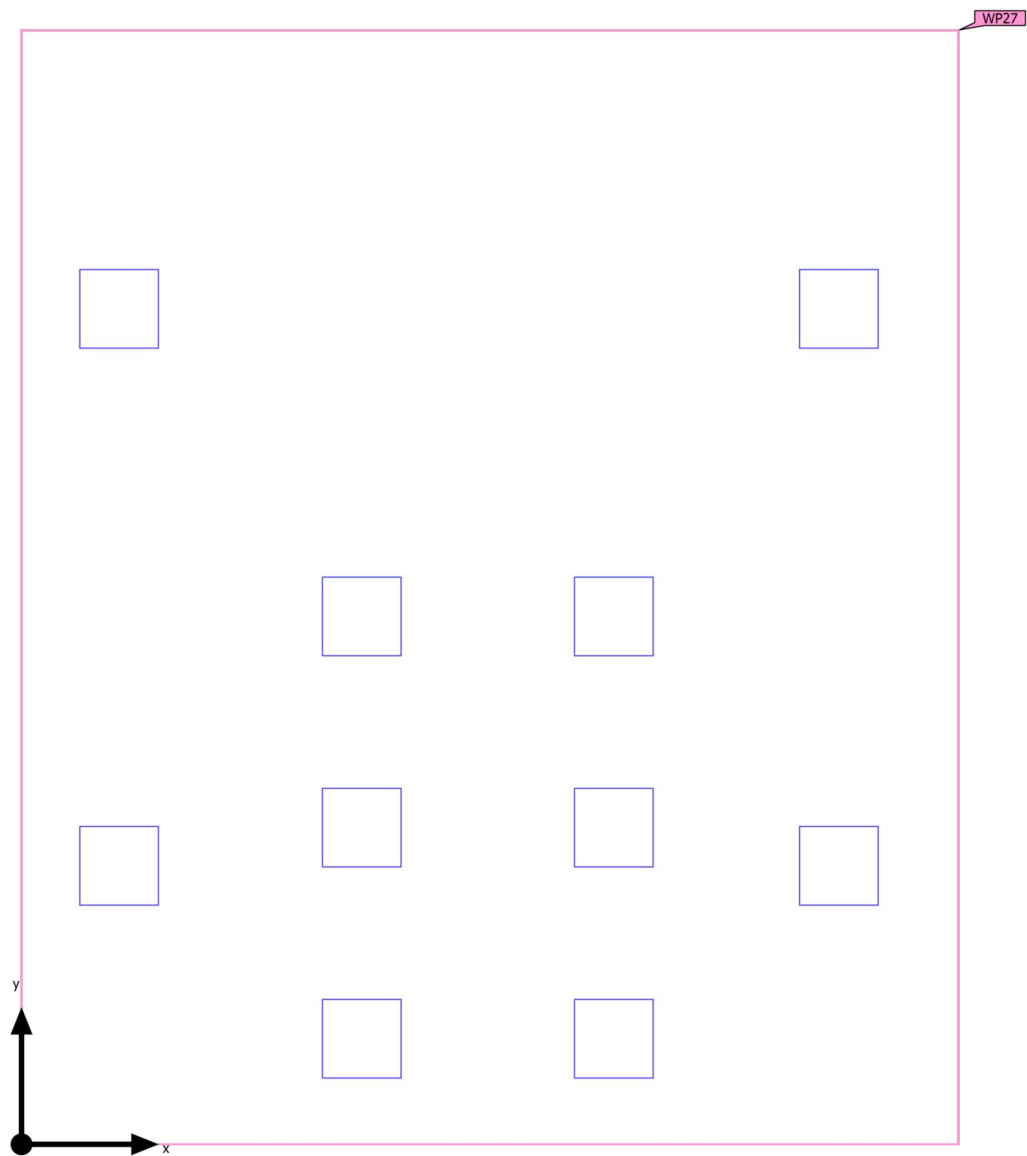
Building 1 · Story 1 · Tualet

Luminaire list

Φ_{total} 18000 lm	P_{total} 238.0 W	Luminous efficacy 75.6 lm/W
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pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
10	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

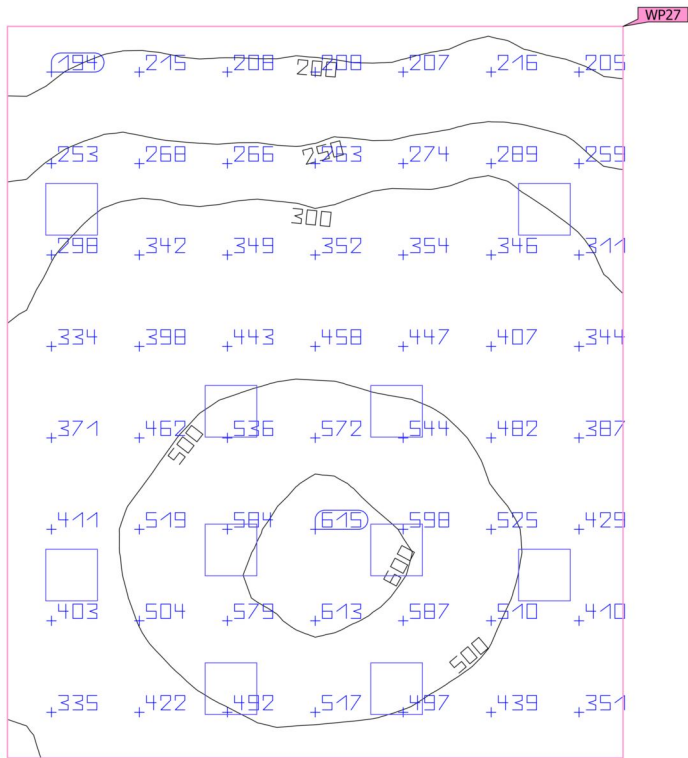
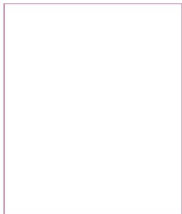
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Tualet) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	395 lx (≥ 200 lx) ✓	173 lx	624 lx	0.44 (≥ 0.40) ✓	0.28	WP27

Utilization profile: Health care premises - Wards, maternity wards (5.39.6 Bathrooms and toilets for patients)

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

Working plane (Tualet)

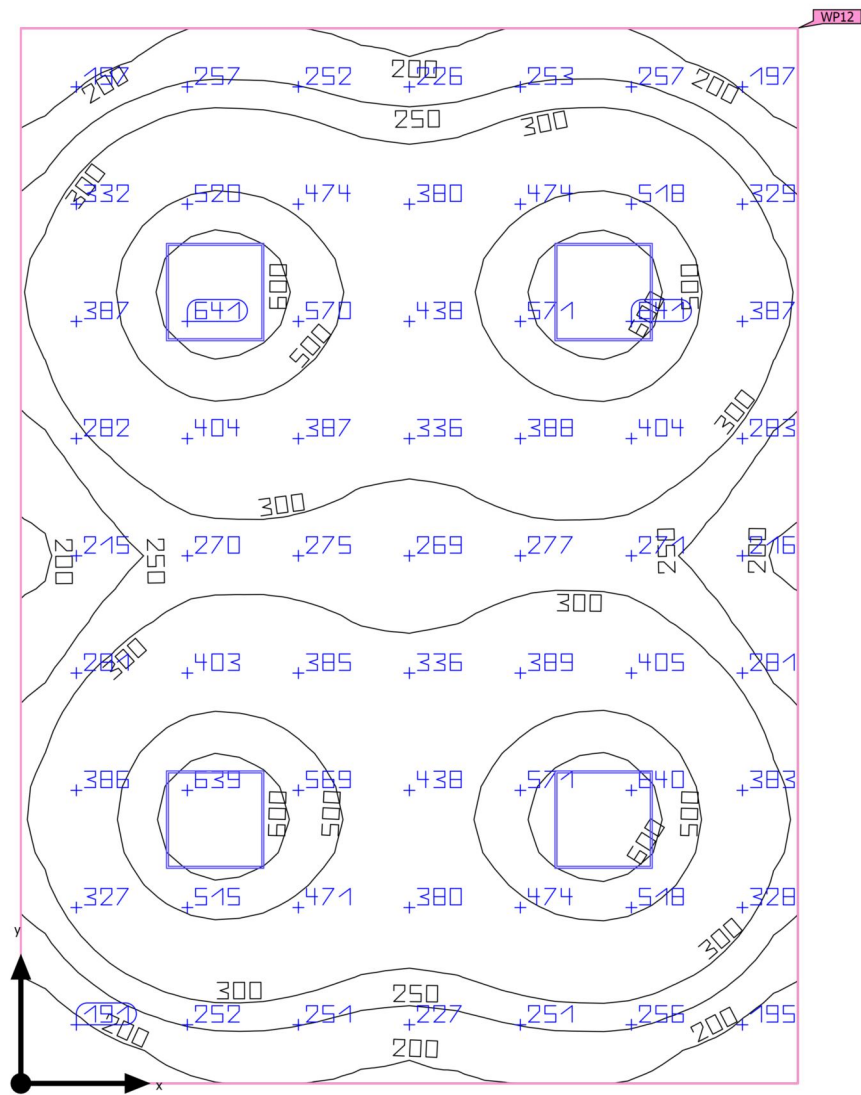


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Tualet)	395 lx	173 lx	624 lx	0.44	0.28	WP27
Perpendicular illuminance (adaptive)	(≥ 200 lx)			(≥ 0.40)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✓		

Utilization profile: Health care premises - Wards, maternity wards (5.39.6 Bathrooms and toilets for patients)

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

Summary



Ground area	30.64 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Light loss factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	369 lx	$\geq 300 \text{ lx}$	✓	WP12
	g_1	0.40	≥ 0.60	✗	WP12
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	19	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	262 kWh/a	max. 1100 kWh/a	✓	
Room	Lighting power density	4.44 W/m ²	–		
		1.20 W/m ² /100 lx	–		

(1) Based on a rectangular space of 4.750 m x 6.450 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

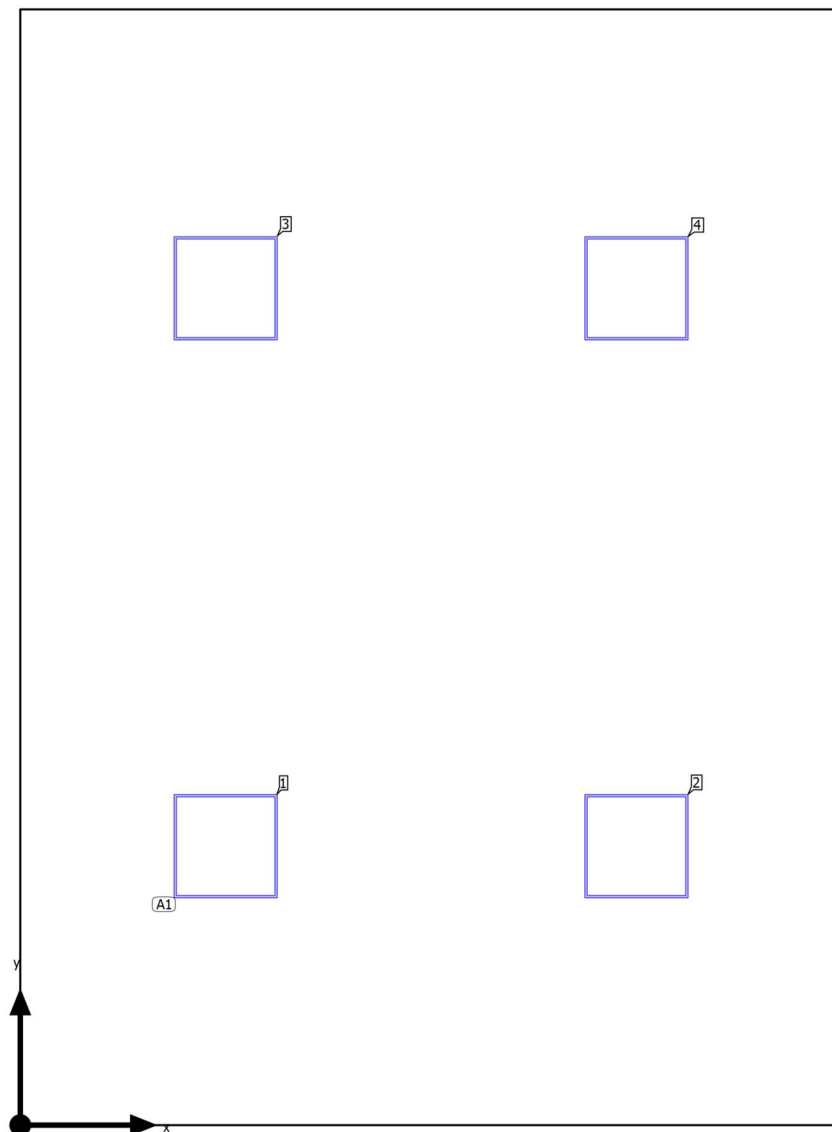
Utilization profile: Educational premises - Educational buildings (5.36.20 Teacher's Staff Common Room)

Luminaire list

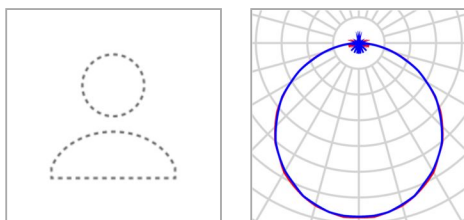
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
4	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	19	34.0 W	4061 lm	119.4 lm/W

Building 1 · Story 1 · Zyre

Luminaire layout plan



Building 1 · Story 1 · Zyre

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		

4 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)	1.188 m / 1.613 m / 2.800 m	1.188 m	1.613 m	2.800 m	1
X-direction	2 pcs., Center - center, 2.375 m	3.563 m	1.613 m	2.800 m	2
Y-direction	2 pcs., Center - center, 3.225 m	1.188 m	4.837 m	2.800 m	3
		3.563 m	4.837 m	2.800 m	4
Arrangement	A1				

Building 1 · Story 1 · Zyre

Luminaire list Φ_{total}

16244 lm

 P_{total}

136.0 W

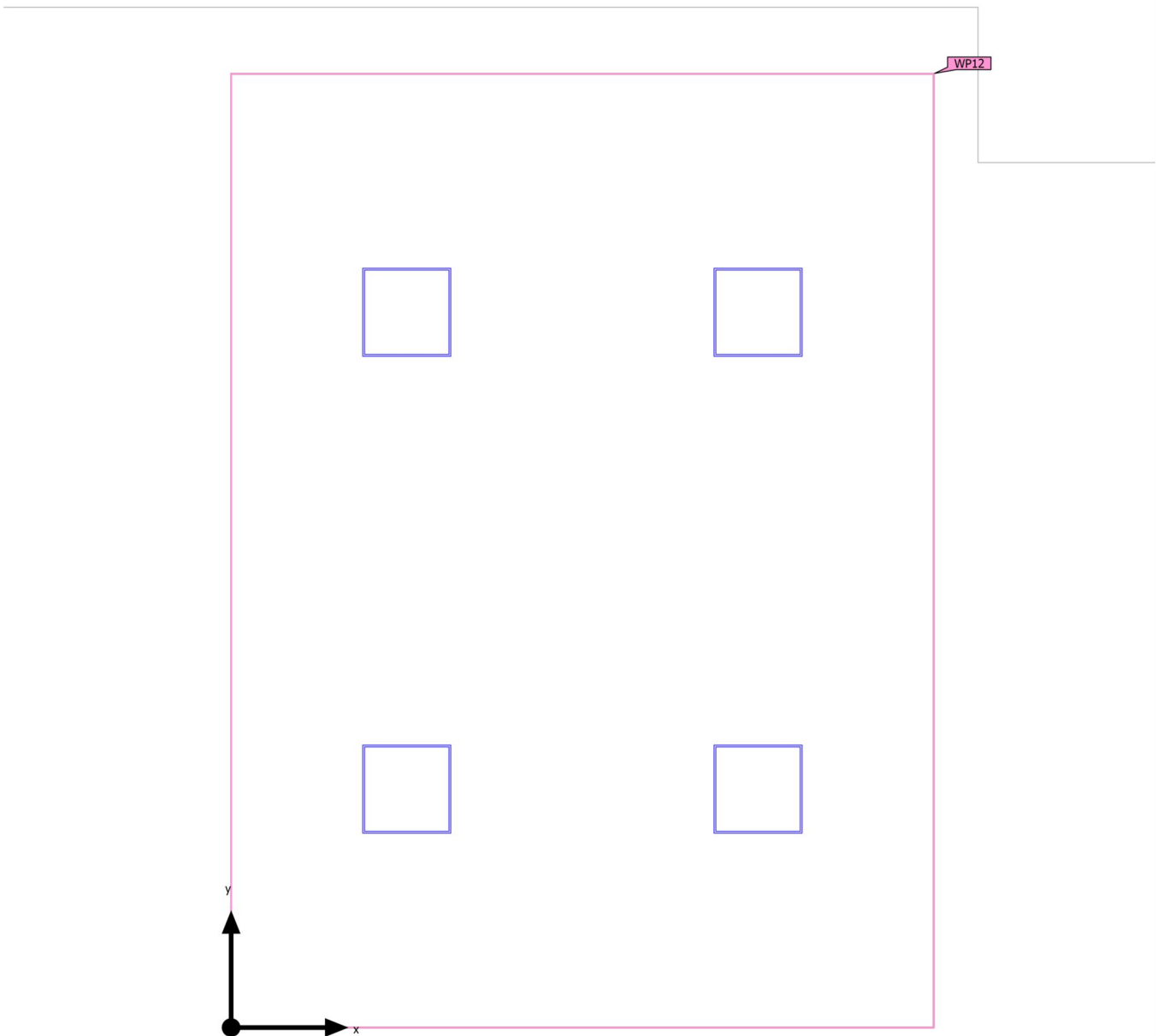
Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
4	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 · Zyre (Light scene 1)

Calculation objects



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

Calculation objects

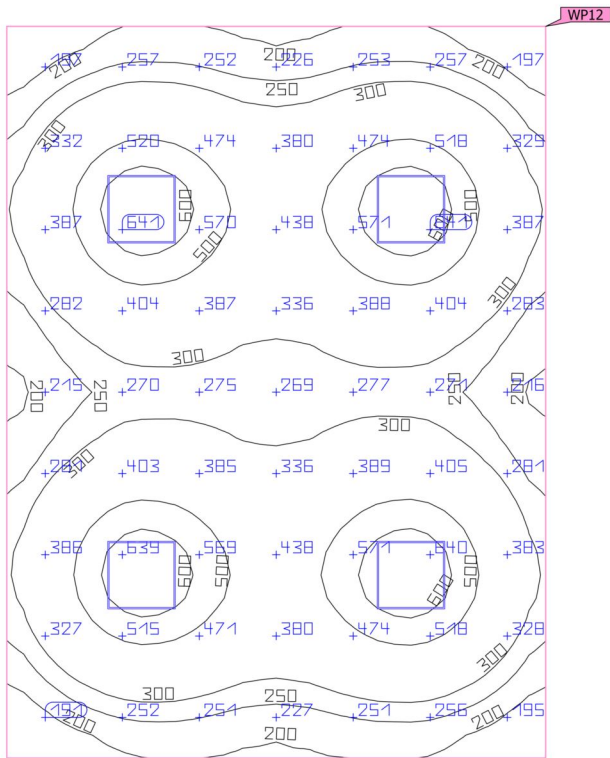
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Zyre)	369 lx	149 lx	668 lx	0.40	0.22	WP12
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Zyre)

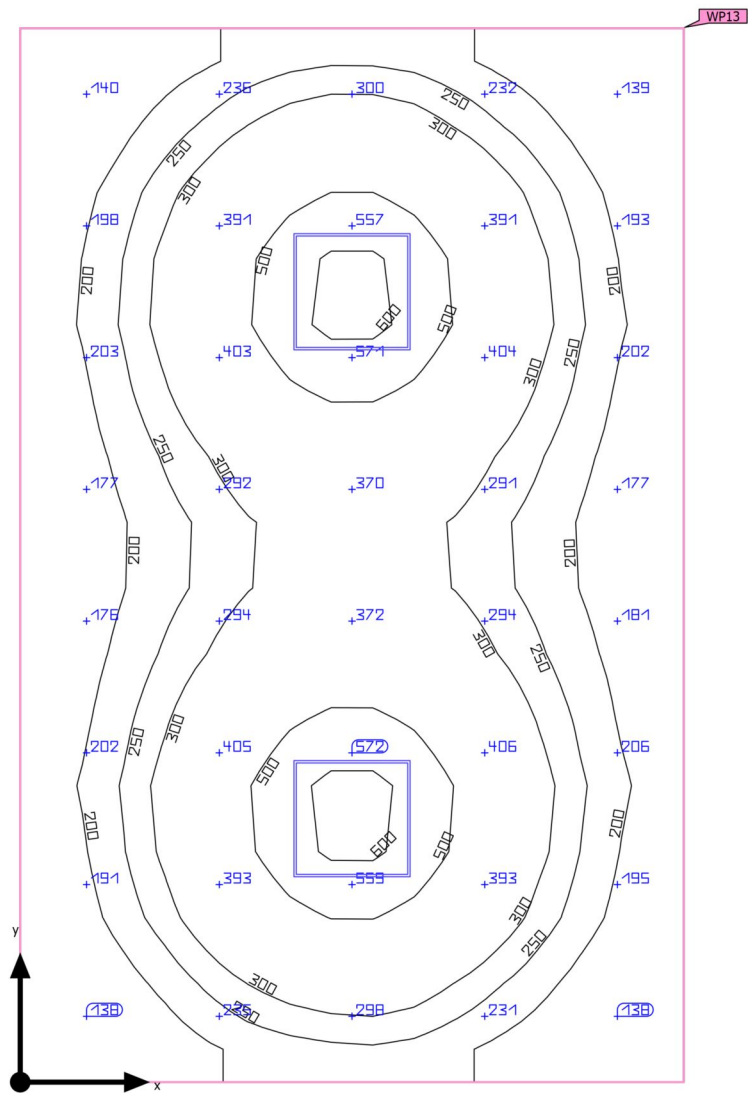


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Zyre)	369 lx	149 lx	668 lx	0.40	0.22	WP12
Perpendicular illuminance (adaptive)	(≥ 300 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	18.36 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	294 lx	≥ 250 lx	✓	WP13
	g_1	0.37	≥ 0.60	✗	WP13
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	19	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	131 kWh/a	max. 650 kWh/a	✓	
Room	Lighting power density	3.70 W/m ²	–		
		1.26 W/m ² /100 lx	–		

(1) Based on a rectangular space of 3.400 m x 5.400 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

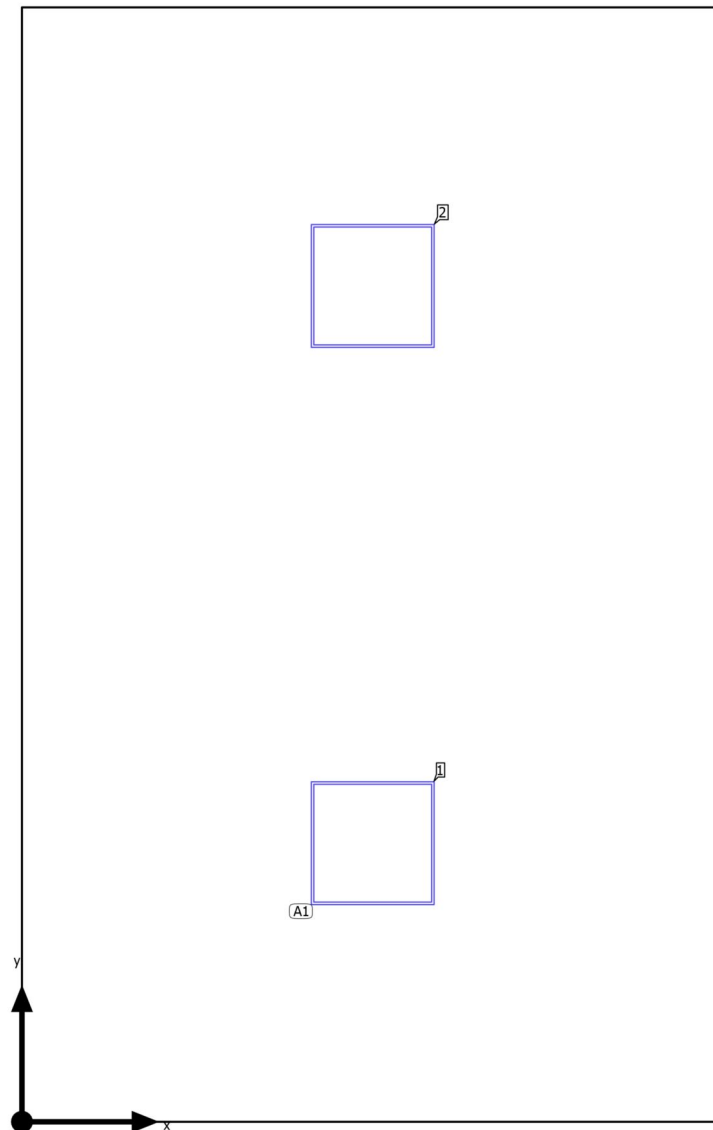
Utilization profile: Educational premises - Educational buildings (5.36.20 Teacher's Staff Common Room)

Luminaire list

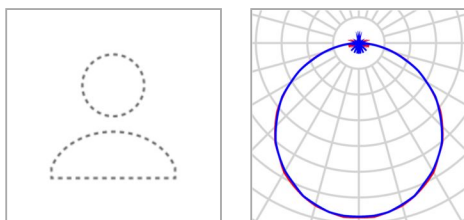
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
2	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	19	34.0 W	4061 lm	119.4 lm/W

Building 1 · Story 1 · Zyre

Luminaire layout plan



Building 1 · Story 1 · Zyre

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		

2 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)	1.700 m / 1.350 m / 2.800 m	1.700 m	1.350 m	2.800 m	1
X-direction	1 pcs., Center - center, 3.400 m	1.700 m	4.050 m	2.800 m	2
Y-direction	2 pcs., Center - center, 2.700 m				
Arrangement	A1				

Building 1 · Story 1 · Zyre

Luminaire list Φ_{total}

8122 lm

 P_{total}

68.0 W

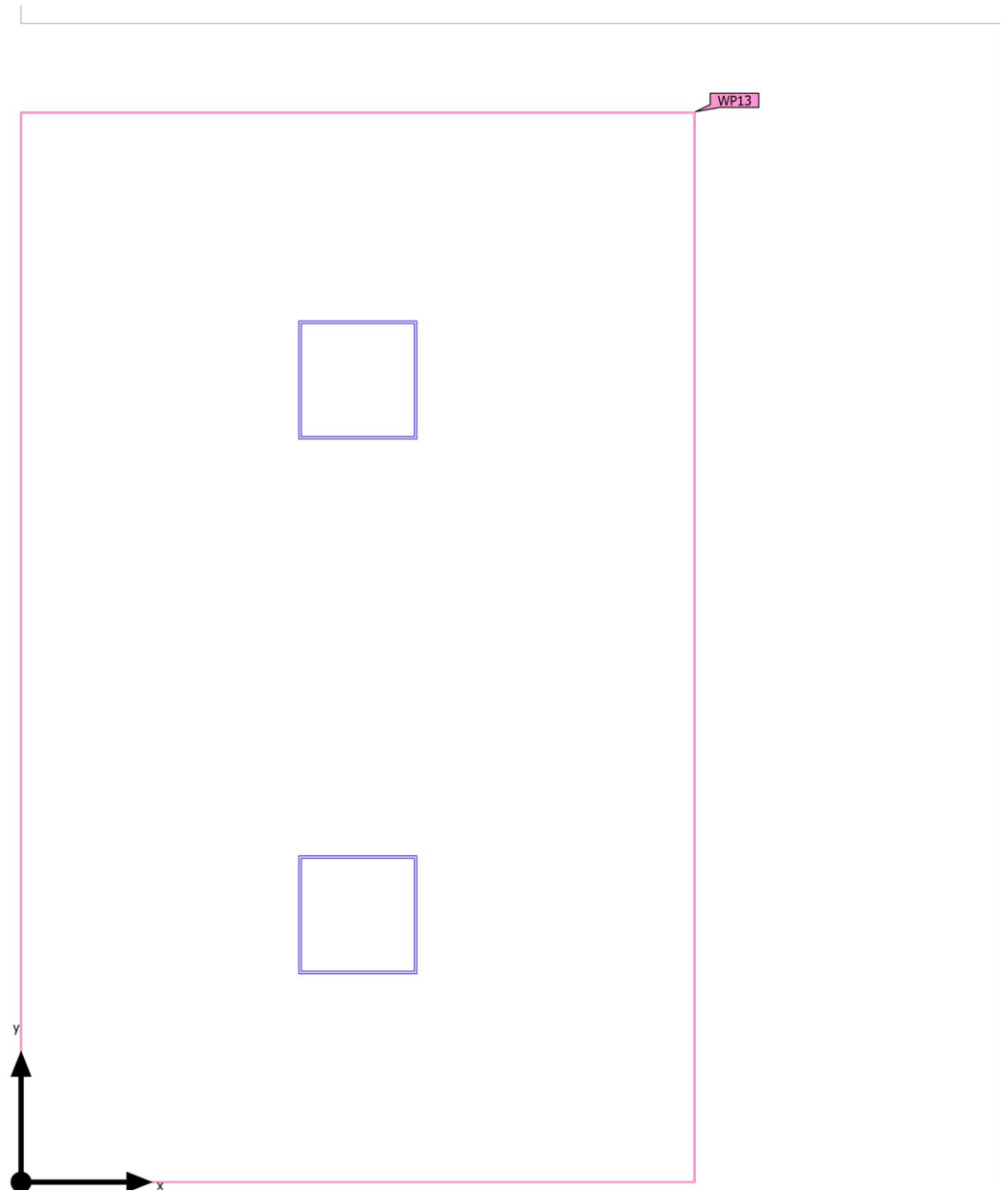
Luminous efficacy

119.4 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	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 · Zyre (Light scene 1)

Calculation objects



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

Calculation objects

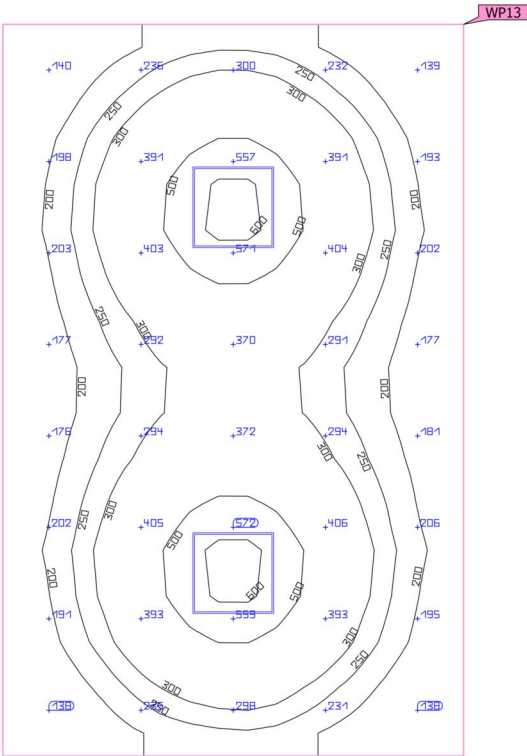
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Zyre)	294 lx	108 lx	623 lx	0.37	0.17	WP13
Perpendicular illuminance (adaptive)	(≥ 250 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Zyre)

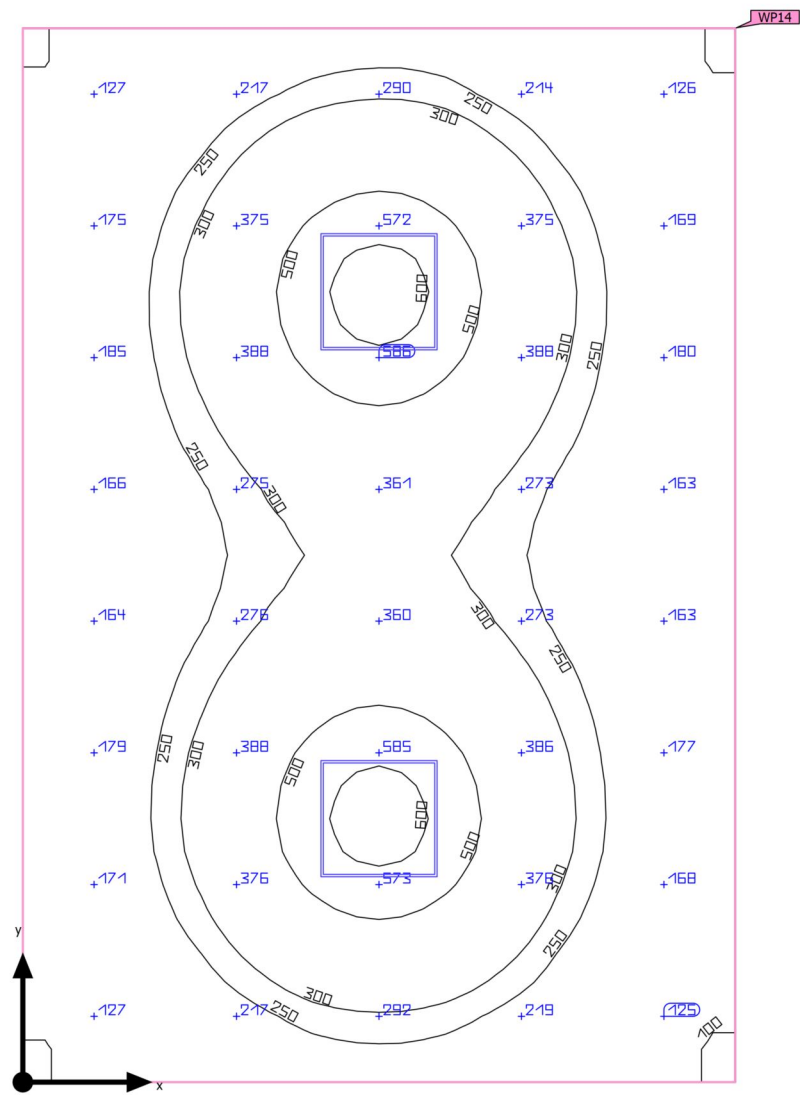


Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Zyre)	294 lx	108 lx	623 lx	0.37	0.17	WP13
Perpendicular illuminance (adaptive)	(≥ 250 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Summary



Ground area	19.71 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Light loss factor	0.80 (fixed)

Clearance height	2.800 m
Mounting height	2.800 m
Height _{Working plane}	0.800 m
Wall zone _{Working plane}	0.000 m

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

Summary

Results

	Symbol	Calculated	Target	Check	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	279 lx	≥ 250 lx	✓	WP14
	g_1	0.35	≥ 0.60	✗	WP14
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	19	≤ 19	✓	
Consumption values ⁽²⁾	Consumption	131 kWh/a	max. 700 kWh/a	✓	
Room	Lighting power density	3.45 W/m ²	–		
		1.23 W/m ² /100 lx	–		

(1) Based on a rectangular space of 3.650 m x 5.400 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

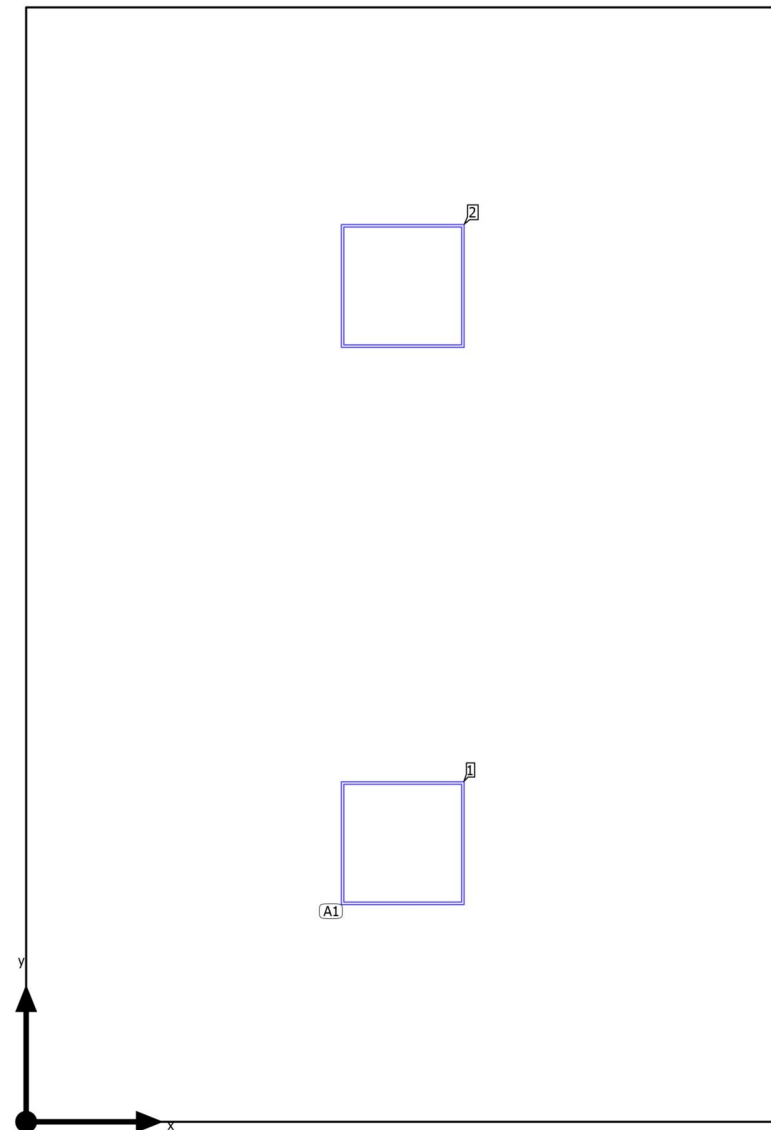
Utilization profile: Educational premises - Educational buildings (5.36.20 Teacher's Staff Common Room)

Luminaire list

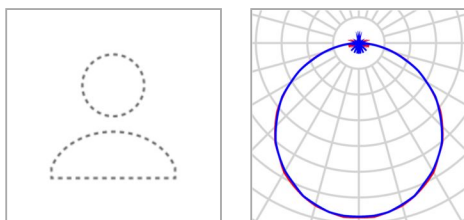
pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
2	Not yet a DIALux member	0042872	START Panel 600x600 HE 4100Lm 830 LILO	19	34.0 W	4061 lm	119.4 lm/W

Building 1 · Story 1 · Zyre

Luminaire layout plan



Building 1 · Story 1 · Zyre

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		

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

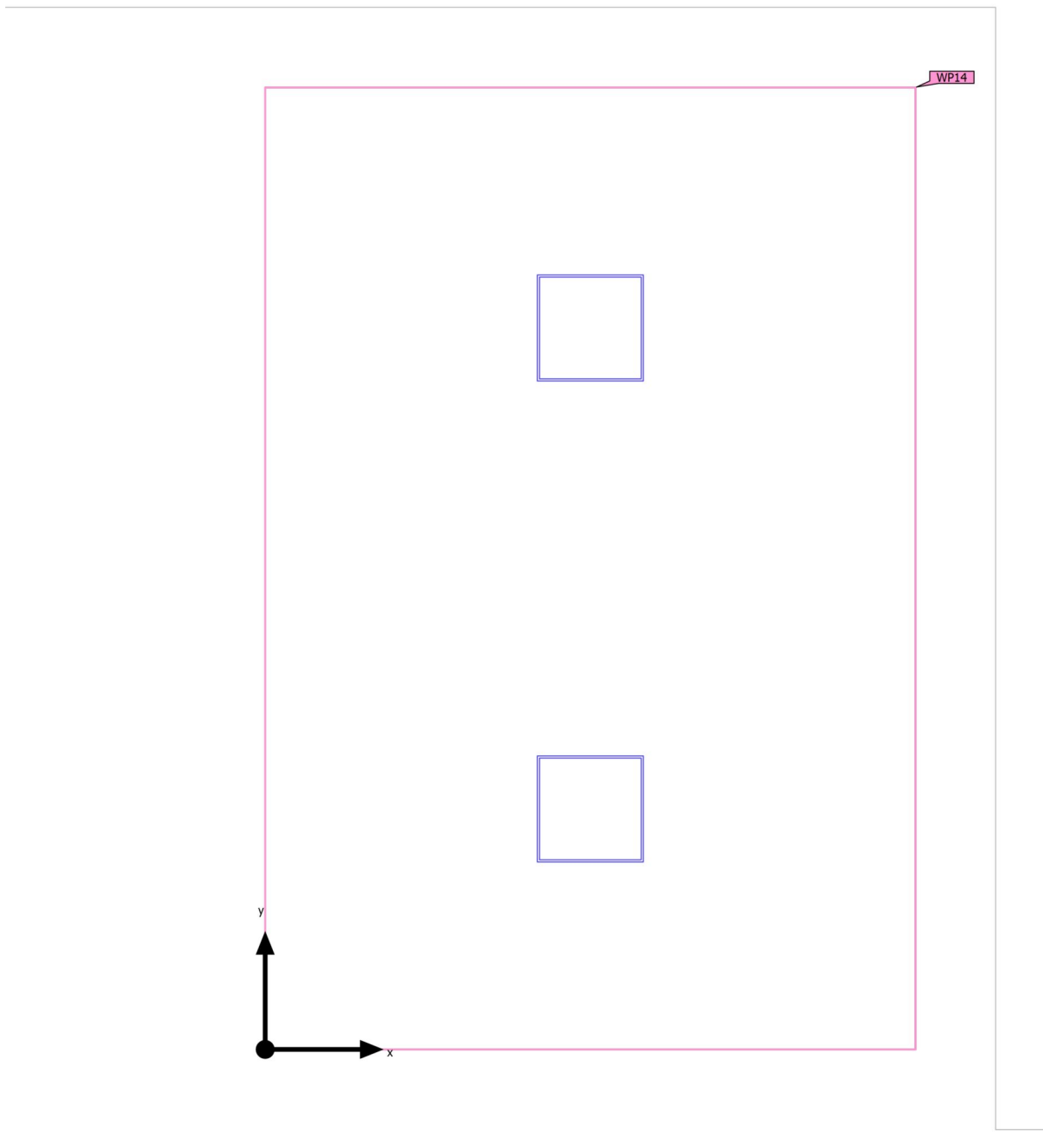
Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	1.825 m / 1.350 m / 2.800 m	1.825 m	1.350 m	2.800 m	1
X-direction	1 pcs., Center - center, 3.650 m	1.825 m	4.050 m	2.800 m	2
Y-direction	2 pcs., Center - center, 2.700 m				
Arrangement	A1				

Building 1 · Story 1 · Zyre

Luminaire list

Φ_{total} 8122 lm		P_{total} 68.0 W		Luminous efficacy 119.4 lm/W		
pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
2	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 · Zyre (Light scene 1)

Calculation objects

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

Calculation objects

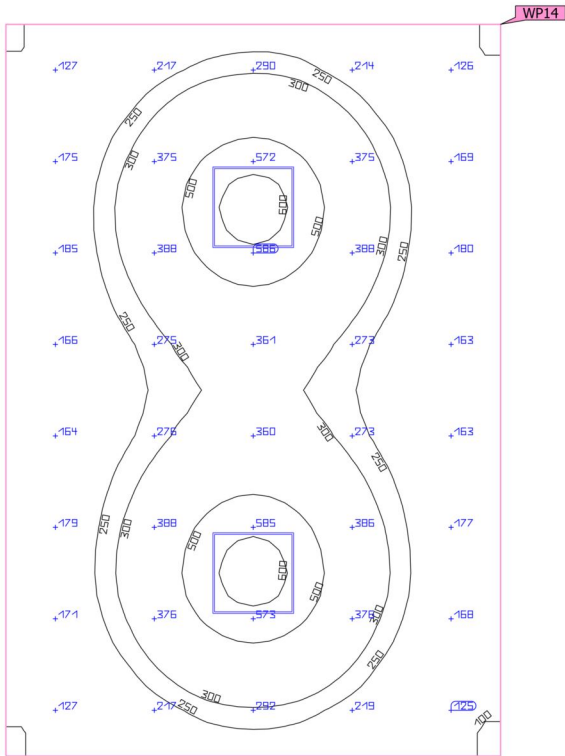
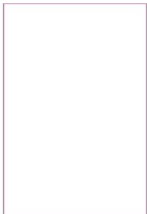
Working planes

Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Zyre)	279 lx	96.3 lx	628 lx	0.35	0.15	WP14
Perpendicular illuminance (adaptive)	(≥ 250 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

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

Working plane (Zyre)



Properties	\bar{E} (Target)	E_{min}	E_{max}	g_1 (Target)	g_2	Index
Working plane (Zyre)	279 lx	96.3 lx	628 lx	0.35	0.15	WP14
Perpendicular illuminance (adaptive)	(≥ 250 lx)			(≥ 0.60)		
Height: 0.800 m, Wall zone: 0.000 m	✓			✗		

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

Glossary

A

A	Formula symbol for a surface in the geometry
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B

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

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

D

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

E

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

Glossary

G

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

I

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

L

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

Glossary

LLMF	(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).
LMF	(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).
LSF	(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).
Luminance	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. Unit: Candela per square meter Abbreviation: cd/m^2 Formula symbol: L
Luminous efficacy	Ratio of the emitted luminous flux Φ [lm] to the absorbed electrical power P [W] Unit: lm/W . 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).
Luminous flux	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. Unit: Lumen Abbreviation: lm Formula symbol: Φ
Luminous intensity	Describes the intensity of the light in a certain direction (emitter value). The luminous intensity is a matter of the luminous flux Φ that is emitted in a certain spherical angle Ω . The radiation characteristics of a light source are presented graphically in a light distribution curve (LDC). The luminous intensity is an SI base unit. Unit: Candela Abbreviation: cd Formula symbol: I

Glossary

M

MF

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

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

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

P

P

(power)

Electric power consumption

Unit: watt

Abbreviation: W

R

$R_{(UG)} \max$

Measure of the psychological glare in indoor spaces.

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

Reflection factor

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

RMF

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

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

S

Surrounding area

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

Glossary

U

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

V

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

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