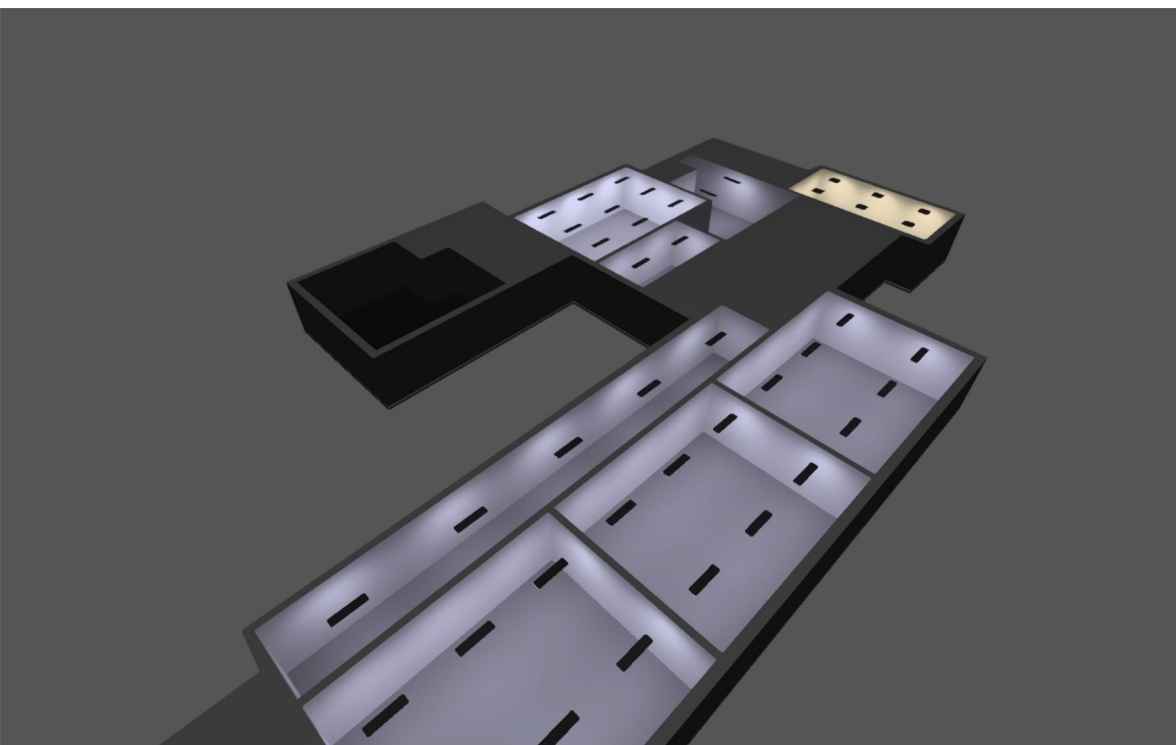


Date

3/2/2024

DIALux



Project

Luminaire list

 Φ_{total}

144000 lm

 P_{total}

1314.0 W

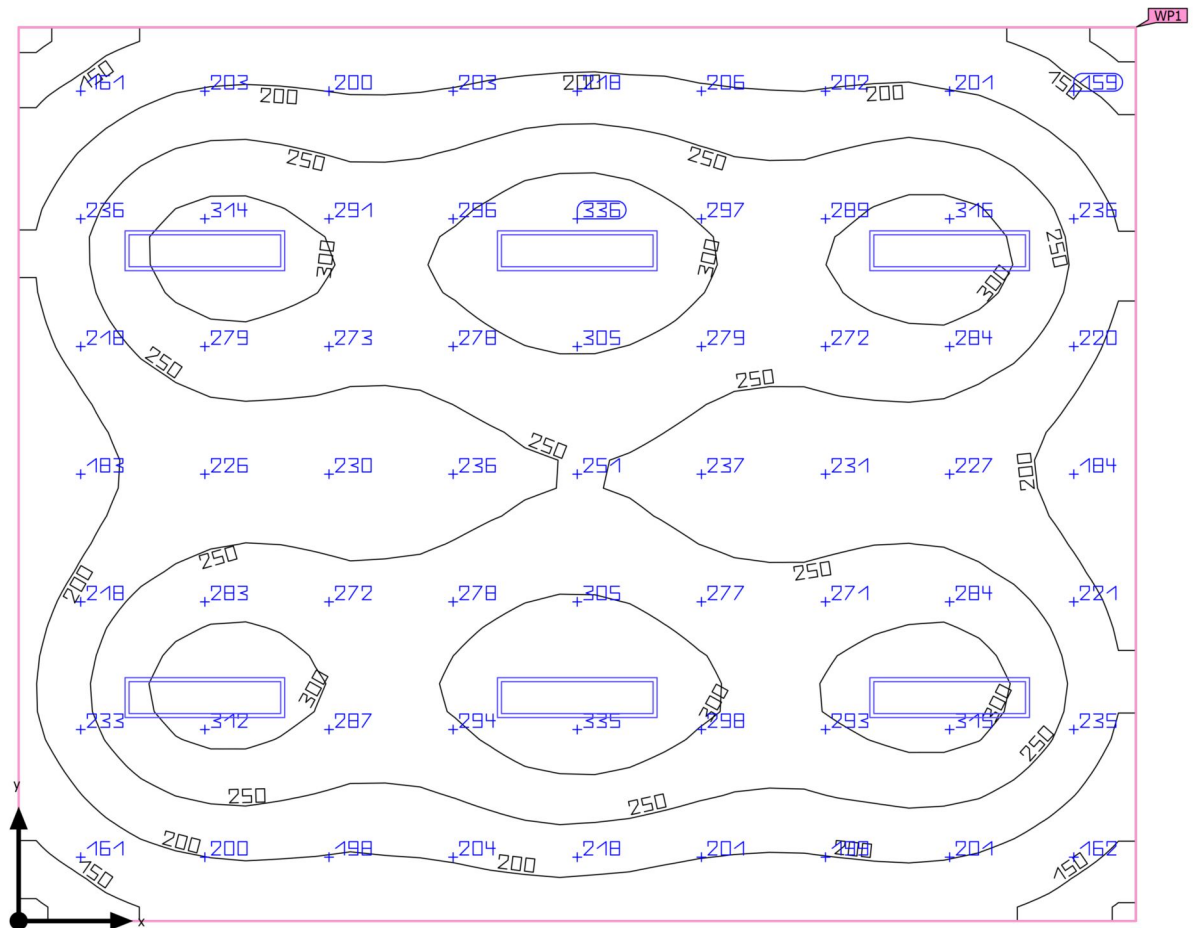
Luminous efficacy

109.6 lm/W

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
6	V-TAC	6028	V-TAC LED Panel 45W 600 x 600 mm 3000K	45.0 W	5400lm	120.0 lm/W
36	V-TAC	6257	V-TAC LED Panel 29W 1200x300mm A++ 120Lm/W 4500K	29.0 W	3401 lm	117.3 lm/W

Building 1 · Storey 1 · Room 1 (Light scene 1)

Summary



Ground area	56.45 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Maintenance factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

Building 1 · Storey 1 · Room 1 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	245 lx	≥ 200 lx	WP1
	$U_o (g_1)$	0.48	≥ 0.60	WP1
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	23	≤ 19	
Energy estimation ⁽²⁾	Consumption	248 kWh/a	max. 2000 kWh/a	
Room	Lighting power density	3.08 W/m ²	–	
		1.26 W/m ² /100 lx	–	

(1) Based on a rectangular space of 8.400 m x 6.720 m and SHR of 0.25.

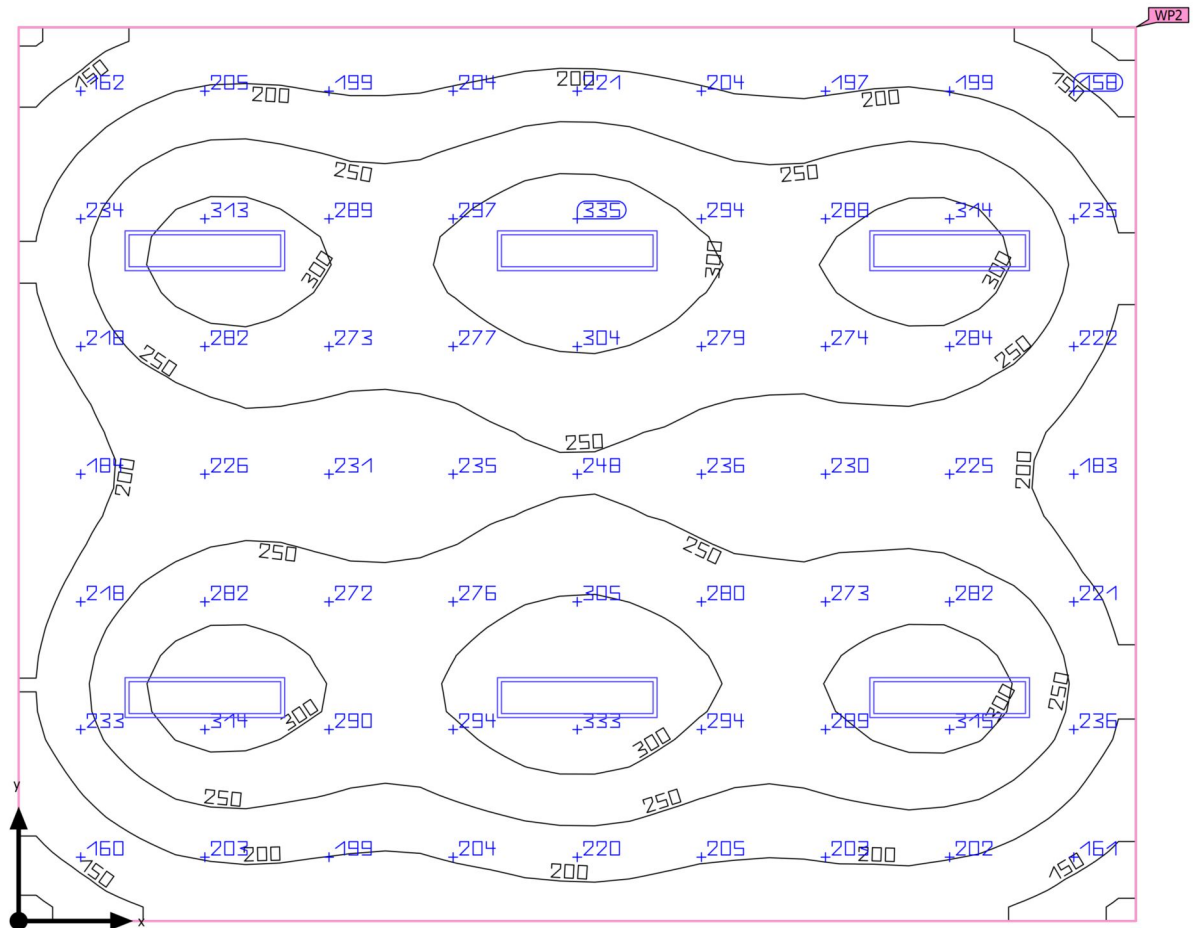
(2) Calculated using DIN:18599-4.

Utilisation profile: Educational premises - Educational buildings (44.3 Participation in lectures in the seating areas of the lecture halls and auditoriums)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	V-TAC	6257	V-TAC LED Panel 29W 1200x300mm A++ 120Lm/W 4500K	23	29.0 W	3401 lm	117.3 lm/W

Building 1 · Storey 1 · Room 2 (Light scene 1)

Summary

Ground area	56.45 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Maintenance factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

Building 1 · Storey 1 · Room 2 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	245 lx	≥ 200 lx	WP2
	$U_o (g_1)$	0.48	≥ 0.60	WP2
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	23	≤ 19	
Energy estimation ⁽²⁾	Consumption	248 kWh/a	max. 2000 kWh/a	
Room	Lighting power density	3.08 W/m ²	–	
		1.26 W/m ² /100 lx	–	

(1) Based on a rectangular space of 8.400 m x 6.720 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

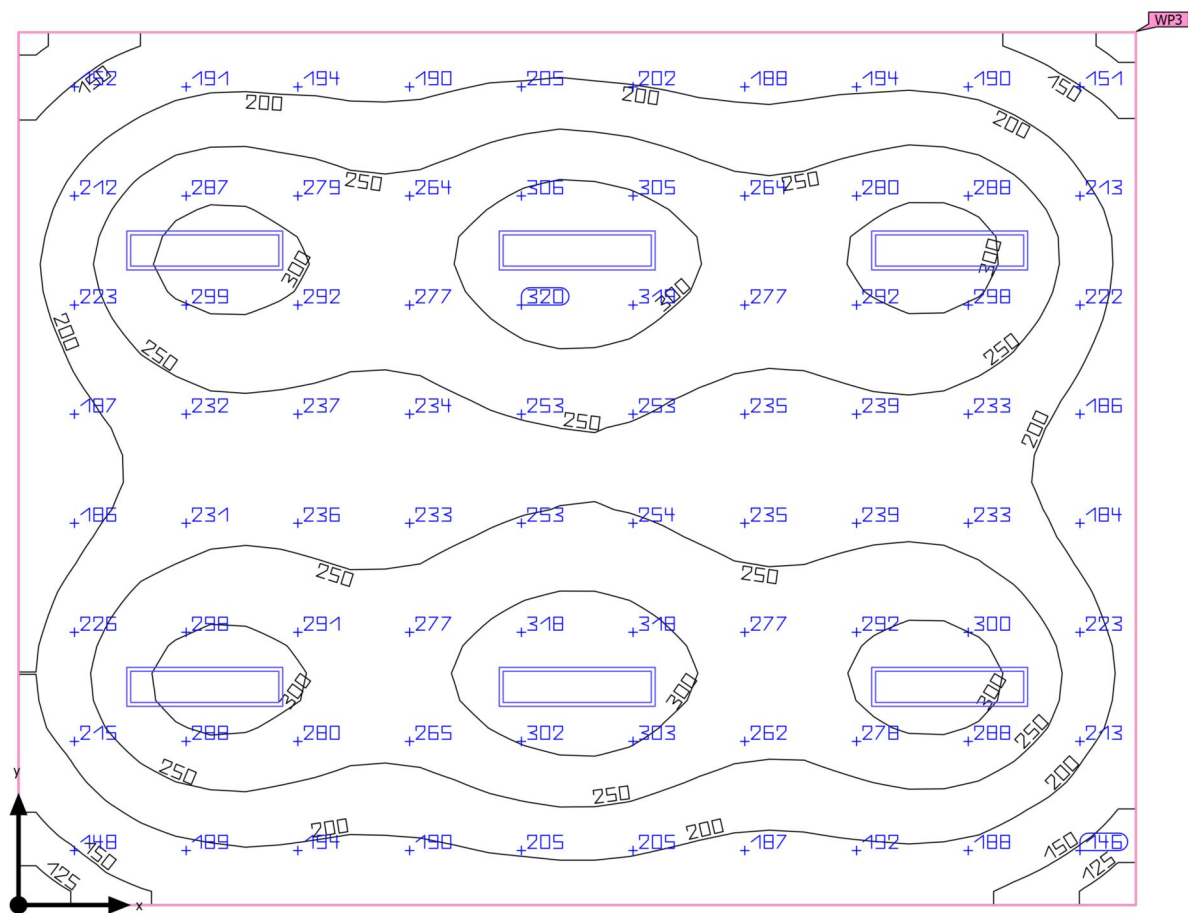
Utilisation profile: Educational premises - Educational buildings (44.3 Participation in lectures in the seating areas of the lecture halls and auditoriums)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	V-TAC	6257	V-TAC LED Panel 29W 1200x300mm A++ 120Lm/W 4500K	23	29.0 W	3401 lm	117.3 lm/W

Building 1 · Storey 1 · Room 3 (Light scene 1)

Summary



Ground area	57.79 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance 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 · Storey 1 · Room 3 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	241 lx	≥ 200 lx	WP3
	$U_o (g_1)$	0.48	≥ 0.60	WP3
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	23	≤ 19	
Energy estimation ⁽²⁾	Consumption	248 kWh/a	max. 2050 kWh/a	
Room	Lighting power density	3.01 W/m ²	–	
		1.25 W/m ² /100 lx	–	

(1) Based on a rectangular space of 8.600 m x 6.720 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

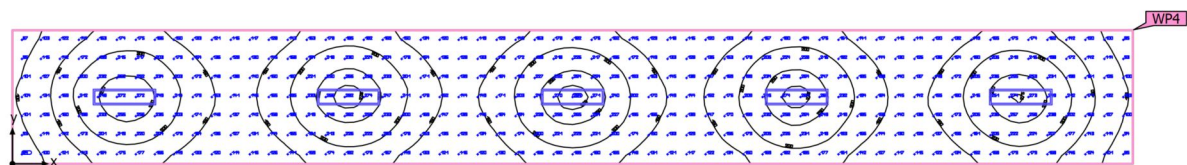
Utilisation profile: Educational premises - Educational buildings (44.3 Participation in lectures in the seating areas of the lecture halls and auditoriums)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
6	V-TAC	6257	V-TAC LED Panel 29W 1200x300mm A++ 120Lm/W 4500K	23	29.0 W	3401 lm	117.3 lm/W

Building 1 · Storey 1 · Room 4 (Light scene 1)

Summary



Ground area	55.36 m ²
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance 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 · Storey 1 · Room 4 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	175 lx	≥ 200 lx	WP4
	$U_o (g_1)$	0.47	≥ 0.60	WP4
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	23	≤ 19	
Energy estimation ⁽²⁾	Consumption	207 kWh/a	max. 1950 kWh/a	
Room	Lighting power density	2.62 W/m ²	–	
		1.50 W/m ² /100 lx	–	

(1) Based on a rectangular space of 21.540 m x 2.570 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

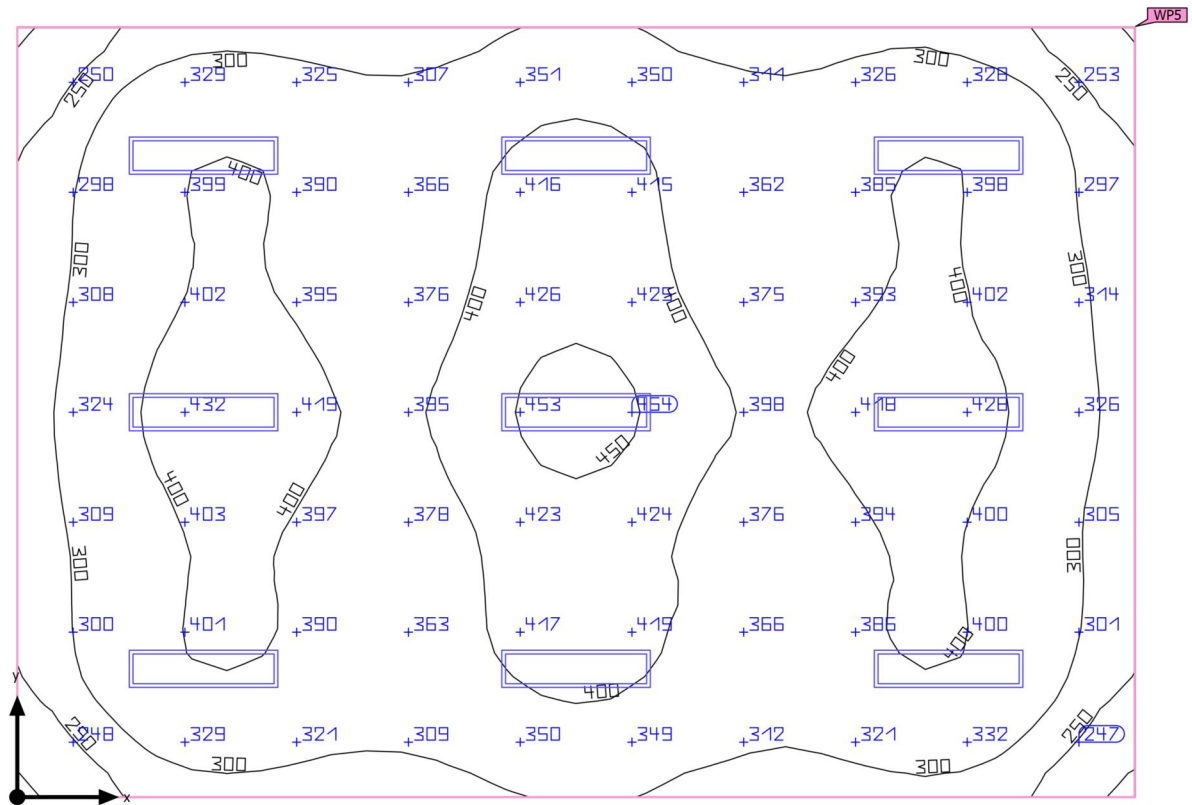
Utilisation profile: Educational premises - Educational buildings (44.3 Participation in lectures in the seating areas of the lecture halls and auditoriums)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
5	V-TAC	6257	V-TAC LED Panel 29W 1200x300mm A++ 120Lm/W 4500K	22	29.0 W	3401 lm	117.3 lm/W

Building 1 · Storey 1 · Room 5 (Light scene 1)

Summary



Ground area	56.17 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Maintenance factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

Building 1 · Storey 1 · Room 5 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	361 lx	≥ 200 lx	WP5
	$U_o (g_1)$	0.55	≥ 0.60	WP5
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	23	≤ 19	
Energy estimation ⁽²⁾	Consumption	372 kWh/a	max. 2000 kWh/a	
Room	Lighting power density	4.65 W/m ²	–	
		1.29 W/m ² /100 lx	–	

(1) Based on a rectangular space of 9.030 m x 6.220 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

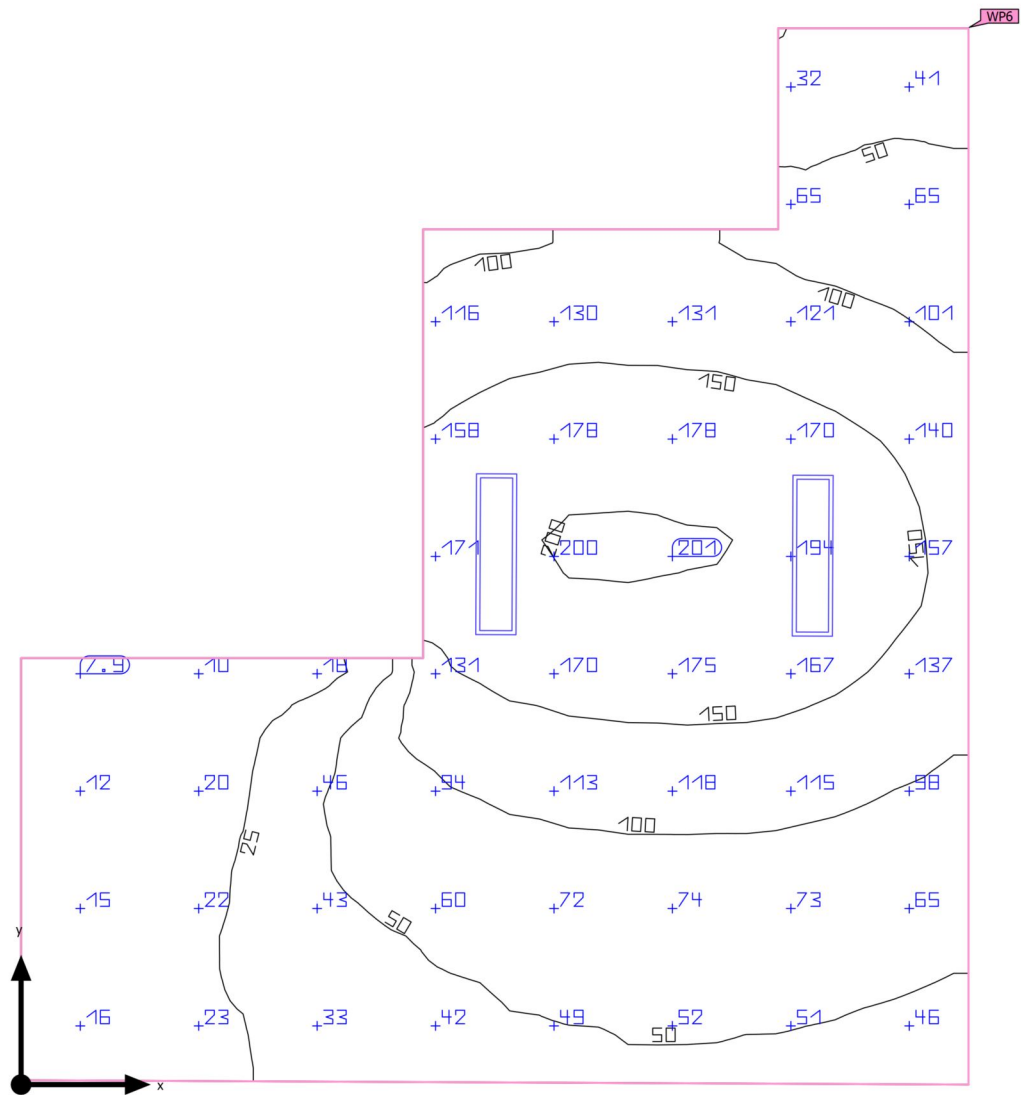
Utilisation profile: Educational premises - Educational buildings (44.3 Participation in lectures in the seating areas of the lecture halls and auditoriums)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
9	V-TAC	6257	V-TAC LED Panel 29W 1200x300mm A++ 120Lm/W 4500K	23	29.0 W	3401 lm	117.3 lm/W

Building 1 · Storey 1 · Room 6 (Light scene 1)

Summary



Ground area	37.54 m ²
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Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
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Maintenance 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}	0.000 m
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Wall zone _{Working plane}	0.000 m
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Building 1 · Storey 1 · Room 6 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	93.6 lx	$\geq 100 \text{ lx}$	WP6
	$U_o (g_1)$	0.086	≥ 0.40	WP6
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	22	≤ 25	
Energy estimation ⁽²⁾	Consumption	63.8 kWh/a	max. 1350 kWh/a	
Room	Lighting power density	1.55 W/m ²	–	
		1.65 W/m ² /100 lx	–	

(1) Based on a rectangular space of 7.882 m x 7.070 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

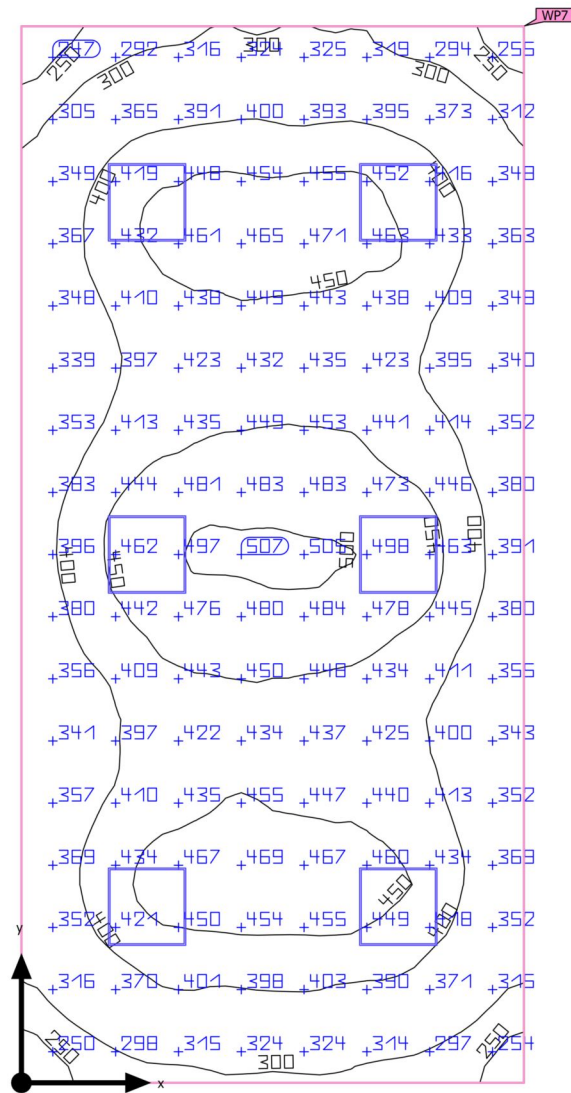
Utilisation profile: Educational premises - Educational buildings (44.19 Circulation areas, corridors)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
2	V-TAC	6257	V-TAC LED Panel 29W 1200x300mm A++ 120Lm/W 4500K	22	29.0 W	3401 lm	117.3 lm/W

Building 1 · Storey 1 · Room 7 (Light scene 1)

Summary



Ground area	31.98 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Maintenance factor	0.80 (fixed)	Height _{Working plane}	0.800 m
		Wall zone _{Working plane}	0.000 m

Building 1 · Storey 1 · Room 7 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	402 lx	≥ 200 lx	WP7
	$U_o (g_1)$	0.54	≥ 0.60	WP7
Energy estimation ⁽²⁾	Consumption	385 kWh/a	max. 1150 kWh/a	
Room	Lighting power density	8.44 W/m ²	–	
		2.10 W/m ² /100 lx	–	

(1) Based on a rectangular space of 3.900 m x 8.200 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

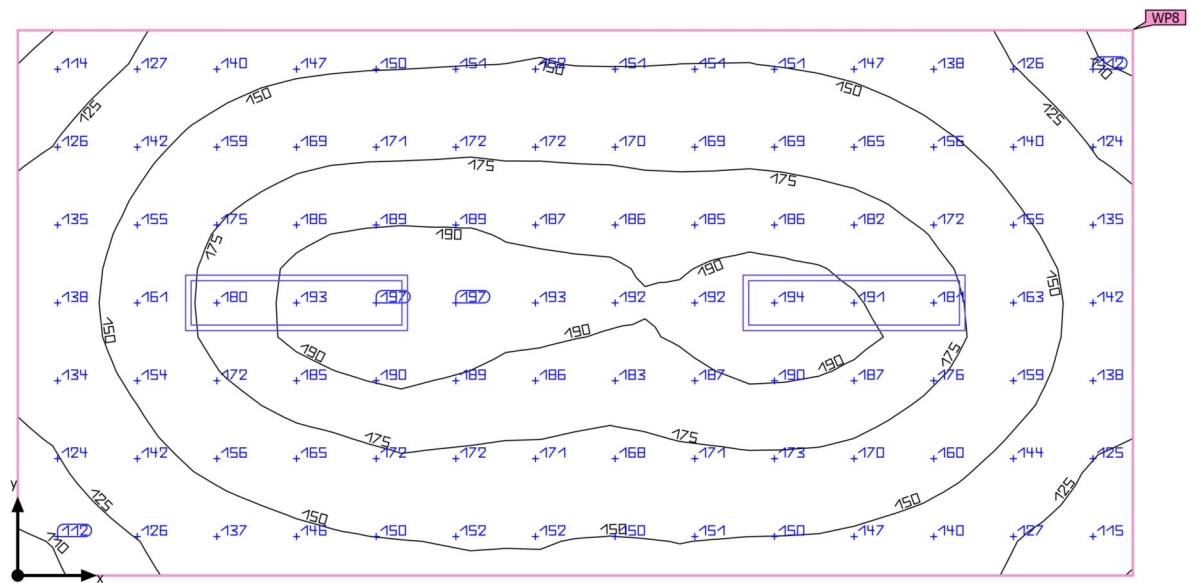
Utilisation profile: Educational premises - Educational buildings (44.3 Participation in lectures in the seating areas of the lecture halls and auditoriums)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Φ	Luminous efficacy
6	V-TAC	6028	V-TAC LED Panel 45W 600 x 600 mm 3000K	–	45.0 W	5400lm	120.0 lm/W

Building 1 · Storey 1 · Room 8 (Light scene 1)

Summary



Ground area	17.79 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Maintenance factor	0.80 (fixed)	Height _{Working plane}	0.000 m
		Wall zone _{Working plane}	0.000 m

Building 1 · Storey 1 · Room 8 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	160 lx	$\geq 100 \text{ lx}$	WP8
	$U_o (g_1)$	0.67	≥ 0.40	WP8
Glare valuation ⁽¹⁾	$R_{UG, \text{max}}$	22	≤ 25	
Energy estimation ⁽²⁾	Consumption	63.8 kWh/a	max. 650 kWh/a	
Room	Lighting power density	3.26 W/m ²	–	
		2.03 W/m ² /100 lx	–	

(1) Based on a rectangular space of 2.950 m x 6.030 m and SHR of 0.25.

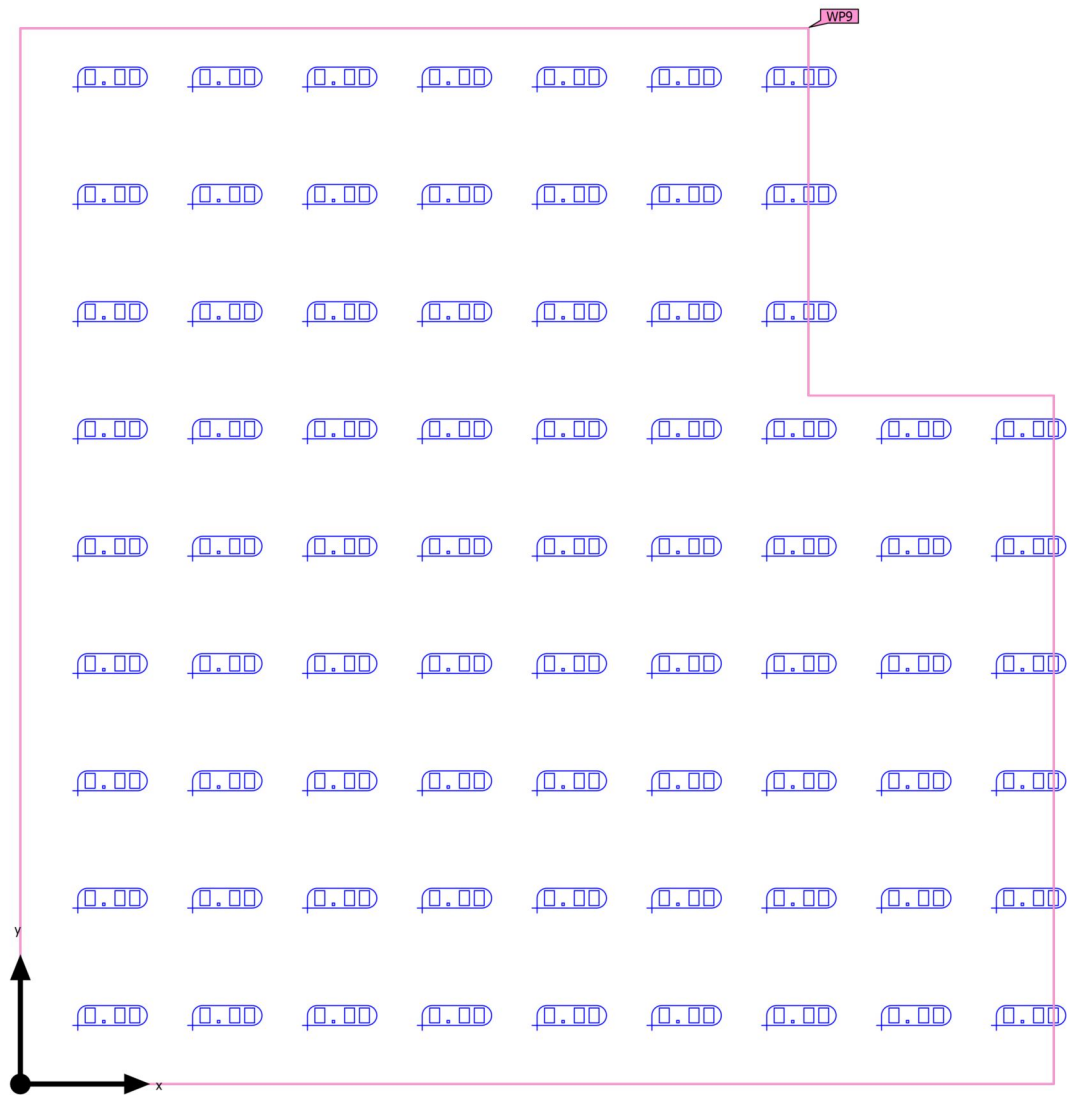
(2) Calculated using DIN:18599-4.

Utilisation profile: Educational premises - Educational buildings (44.19 Circulation areas, corridors)

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R_{UG}	P	Φ	Luminous efficacy
2	V-TAC	6257	V-TAC LED Panel 29W 1200x300mm A++ 120Lm/W 4500K	21	29.0 W	3401 lm	117.3 lm/W

Building 1 · Storey 1 · Room 9 (Light scene 1)

Summary

Ground area	45.27 m ²
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Reflection factors	Ceiling: 70.0 %, Walls: 50.0 %, Floor: 20.0 %
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Maintenance factor	0.80 (fixed)
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Clearance height	2.800 m
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Height _{Working plane}	0.800 m
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Wall zone _{Working plane}	0.000 m
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Building 1 · Storey 1 · Room 9 (Light scene 1)

Summary

Results

	Symbol	Calculated	Target	Index
Working plane	$\bar{E}_{\text{perpendicular}}$	0.00 lx	≥ 200 lx	WP9
	$U_o (g_1)$	-	≥ 0.60	WP9
Energy estimation ⁽²⁾	Consumption	0.00 kWh/a	max. 50 kWh/a	
Room	Lighting power density	0.00 W/m ²	-	

(1) Based on a rectangular space of 7.100 m x 6.950 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

Utilisation profile: Educational premises - Educational buildings (44.3 Participation in lectures in the seating areas of the lecture halls and auditoriums)