

Date

2/5/2026



B02-NCO Accommodation

Lux Level Calculation Report

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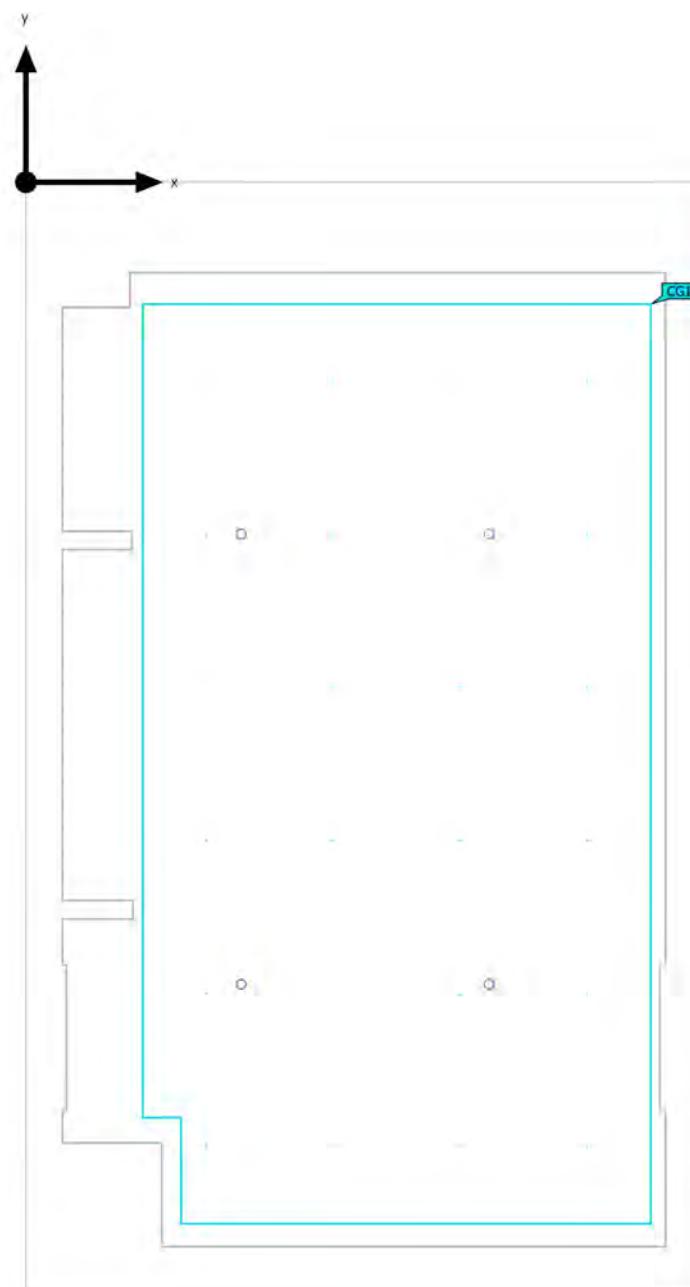
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Building B02
Description

01- Typical Bedroom Description

01- Typical Bedroom · Storey 1 (Light scene 1)

Calculation objects



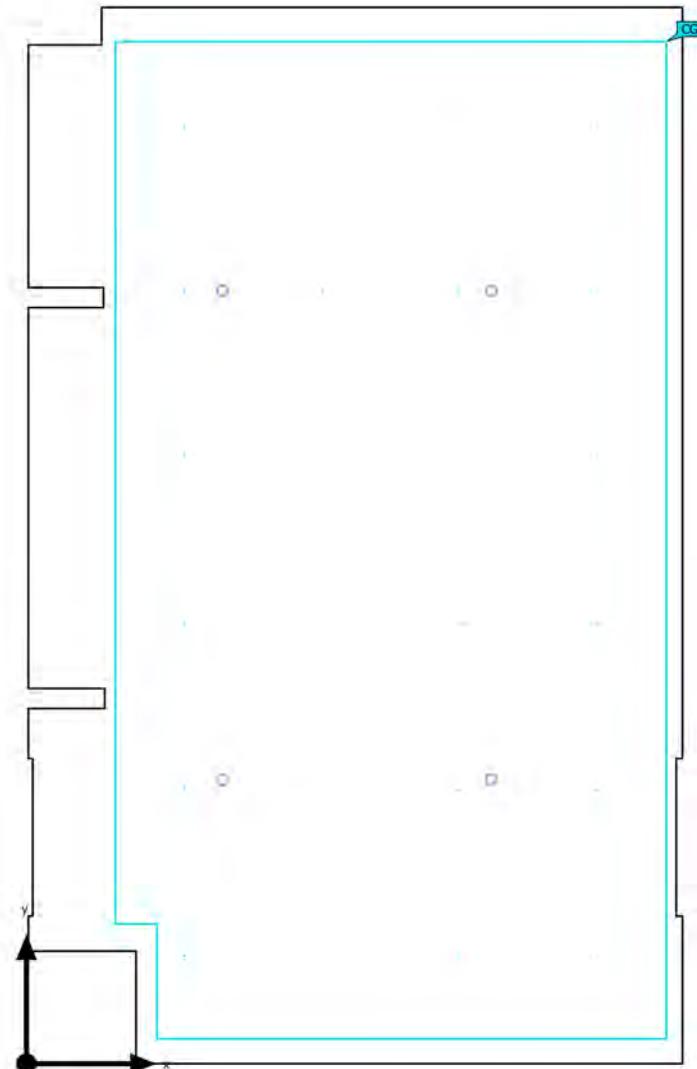
01- Typical Bedroom · Storey 1 (Light scene 1)

Calculation objects

Calculation surfaces

Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Calculation surface 1 Perpendicular illuminance Height: 0.000 m	167 lx	79.7 lx	314 lx	0.48	0.25

01- Typical Bedroom · Storey 1 · Bedroom (Light scene 1)
Summary



Ground area	42.85 m ²		
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Clearance height	2.800 m
Maintenance factor	0.80 (fixed)	Mounting height	2.800 m

01- Typical Bedroom · Storey 1 · Bedroom (Light scene 1) Summary

Results

Symbol	Calculated	Index
Energy estimation ⁽²⁾	Consumption	198 kWh/a

(1) Based on a rectangular space of 8.440 m x 5.225 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

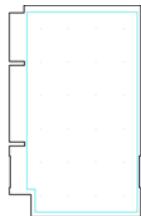
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
4	FRATER	DLG5-020	COB Down Light Gemini 05	-	20.0 W	2000 lm 100.0 lm/W

01- Typical Bedroom · Bedroom (Light scene 1)

Calculation surface 1

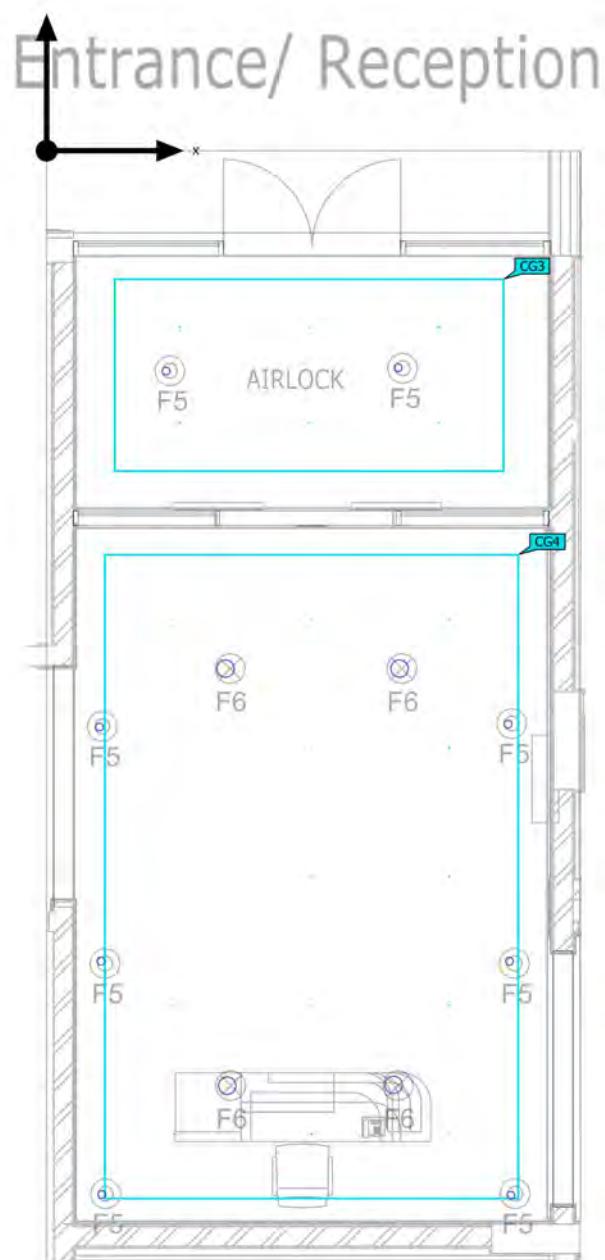


Properties		E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Calculation surface 1		167 lx	79.7 lx	314 lx	0.48	0.25
Perpendicular illuminance						CG1
Height: 0.000 m						

Utilisation profile: DIALux presetting (34.2 Standard (office))

02-Entrance/ Reception
Description

02-Entrance/ Reception · Storey 1 (Light scene 1)
Calculation objects

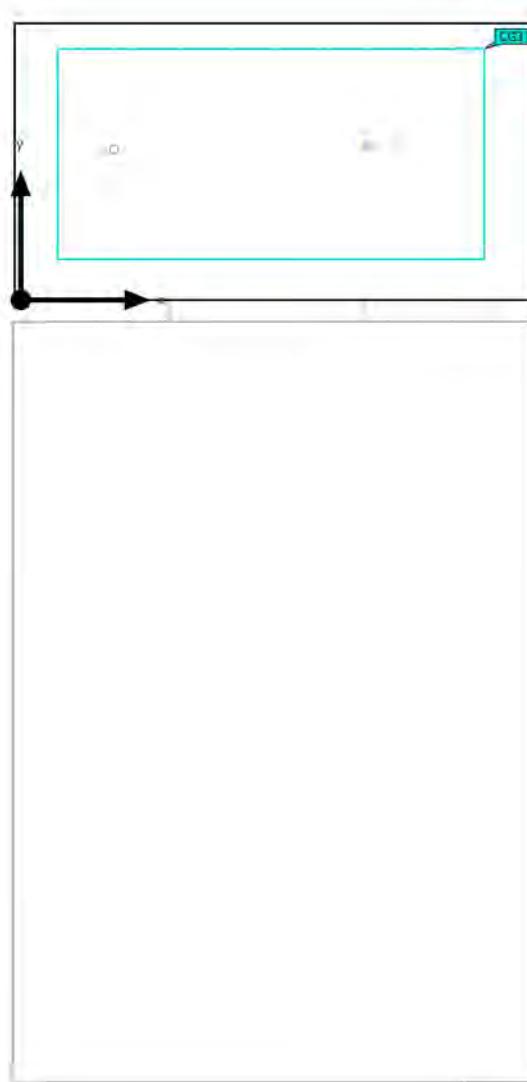


02-Entrance/ Reception · Storey 1 (Light scene 1)

Calculation objects

Calculation surfaces

Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Calculation surface 5 Perpendicular illuminance Height: 0.000 m	167 lx	155 lx	184 lx	0.93	0.84
Calculation surface 6 Perpendicular illuminance Height: 0.000 m	254 lx	177 lx	309 lx	0.70	0.57

02-Entrance/ Reception · Storey 1 · Airlock (Light scene 1)
Summary

Ground area	12.32 m ²		
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %		
Maintenance factor	0.80 (fixed)	Mounting height	2.800 m

02-Entrance/ Reception · Storey 1 · Airlock (Light scene 1) Summary

Results

Symbol	Calculated	Index
Energy estimation ⁽²⁾	Consumption	54.5 kWh/a

(1) Based on a rectangular space of 4.805 m x 2.565 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
2	FRATER	DLG5-010	COB Down Light Gemini 05	-	11.0 W	1066 lm 96.9 lm/W

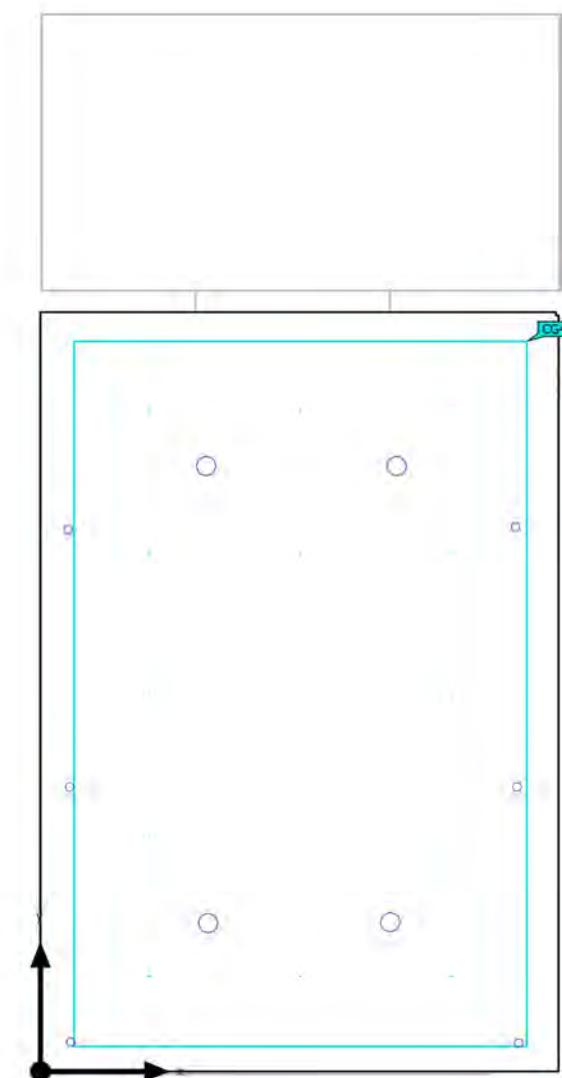
02-Entrance/ Reception · Airlock (Light scene 1)

Calculation surface 5



Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Calculation surface 5 Perpendicular illuminance Height: 0.000 m	167 lx	155 lx	184 lx	0.93	0.84

Utilisation profile: DIALux presetting (34.2 Standard (office))

02-Entrance/ Reception · Storey 1 · Reception (Light scene 1)
Summary

Ground area	33.86 m ²		
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %		
Maintenance factor	0.80 (fixed)	Mounting height	2.800 m

02-Entrance/ Reception · Storey 1 · Reception (Light scene 1) Summary

Results

Symbol	Calculated	Index
Energy estimation ⁽²⁾	Consumption	332 kWh/a

(1) Based on a rectangular space of 4.807 m x 7.045 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

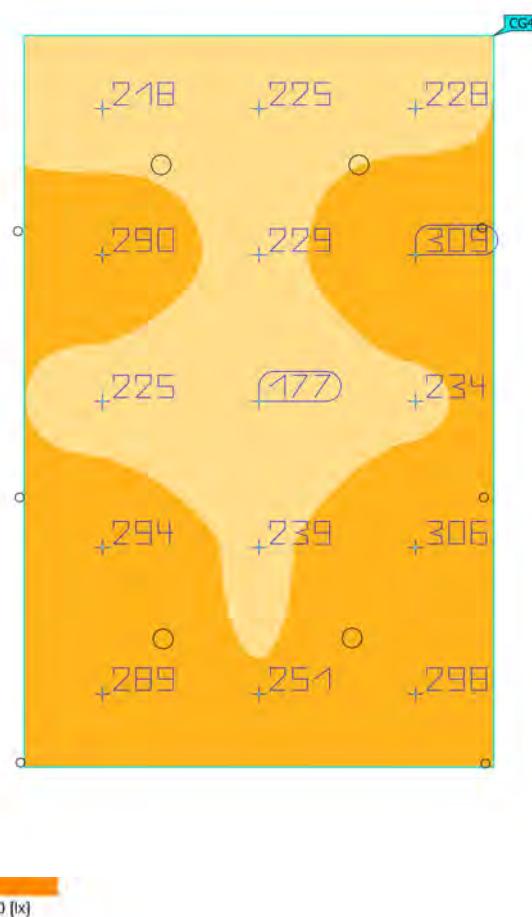
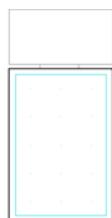
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Luminous efficacy	
6	FRATER	DLG5-010	COB Down Light Gemini 05	–	11.0 W	1066 lm	96.9 lm/W
4	FRATER	DLS1-017	Down Light DLS1 17W 6500K	–	17.0 W	2040 lm	120.0 lm/W

02-Entrance/ Reception · Reception (Light scene 1)

Calculation surface 6



Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Calculation surface 6 Perpendicular illuminance Height: 0.000 m	254 lx	177 lx	309 lx	0.70	0.57

Utilisation profile: DIALux presetting (34.2 Standard (office))

03-Main Corridor
Description

03-Main Corridor · Storey 1 (Light scene 1)
Calculation objects



03-Main Corridor · Storey 1 (Light scene 1)

Calculation objects

Calculation surfaces

Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Calculation surface 2 Perpendicular illuminance Height: 0.000 m	157 lx	55.3 lx	311 lx	0.35	0.18

03-Main Corridor · Storey 1 · Main Corridor (Light scene 1)
Summary



Ground area	174.58 m ²		
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Clearance height	2.800 m
Maintenance factor	0.80 (fixed)	Mounting height	2.800 m

03-Main Corridor · Storey 1 · Main Corridor (Light scene 1) Summary

Results

Symbol	Calculated	Index
Energy estimation ⁽²⁾	Consumption	978 kWh/a

(1) Based on a rectangular space of 2.940 m x 60.265 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

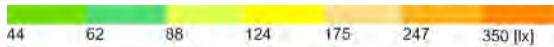
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy	
22	FRATER	DLG5-010	COB Down Light Gemini 05	–	11.0 W	1066 lm	96.9 lm/W
9	FRATER	DLS1-017	Down Light DLS1 17W 6500K	–	17.0 W	2040 lm	120.0 lm/W

03-Main Corridor · Main Corridor (Light scene 1)

Calculation surface 2

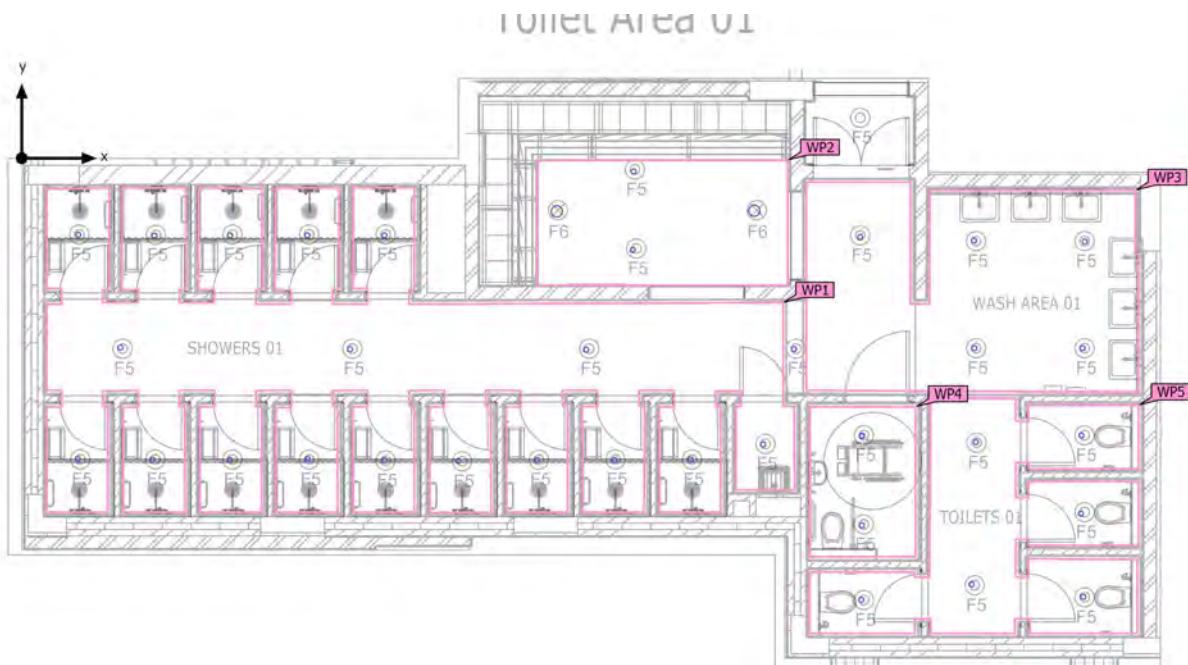


Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Calculation surface 2 Perpendicular illuminance Height: 0.000 m	157 lx	55.3 lx	311 lx	0.35	0.18

Utilisation profile: DIALux presetting (34.2 Standard (office))

04-Toilet Area 01
Description

04-Toilet Area 01 · Storey 1 (Light scene 1)
Calculation objects



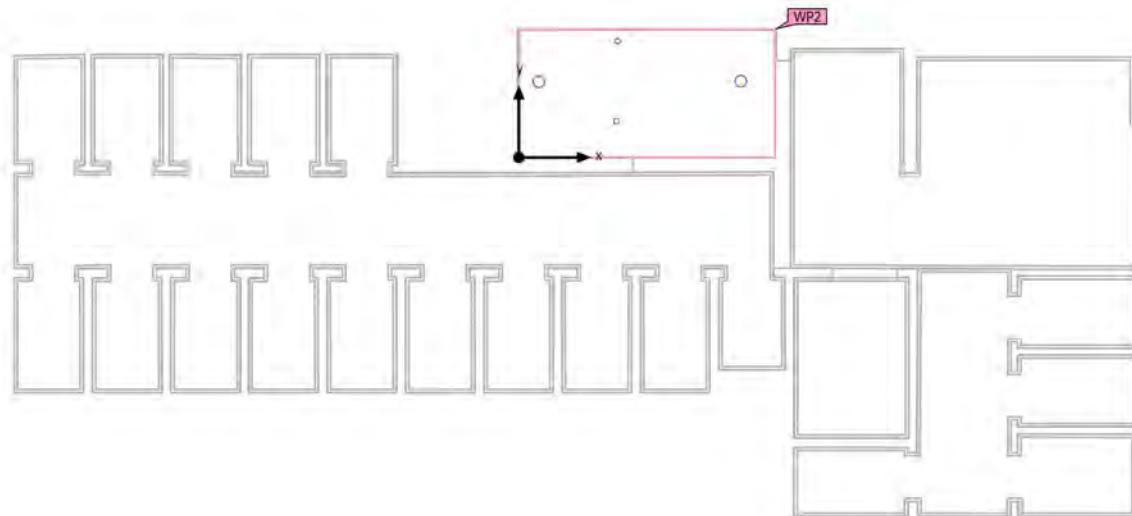
04-Toilet Area 01 · Storey 1 (Light scene 1)

Calculation objects

Working planes

Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Lockers) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	310 lx	163 lx	446 lx	0.53	0.37
Working plane (Shower) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.050 m	187 lx	60.5 lx	296 lx	0.32	0.20
Working plane (Toilet-POD) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.050 m	343 lx	184 lx	460 lx	0.54	0.40
Working plane (Toilets) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.050 m	216 lx	121 lx	326 lx	0.56	0.37
Working plane (Wash Area) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.050 m	253 lx	120 lx	373 lx	0.47	0.32

04-Toilet Area 01 · Storey 1 · Lockers (Light scene 1)
Summary



Ground area	7.71 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

04-Toilet Area 01 · Storey 1 · Lockers (Light scene 1) Summary

Results

	Symbol	Calculated	Index
Working plane	perpendicular	310 lx	WP2
	U _o (g ₁)	0.53	WP2
Energy estimation ⁽²⁾	Consumption	139 kWh/a	

(1) Based on a rectangular space of 1.965 m x 3.925 m and SHR of 0.25.

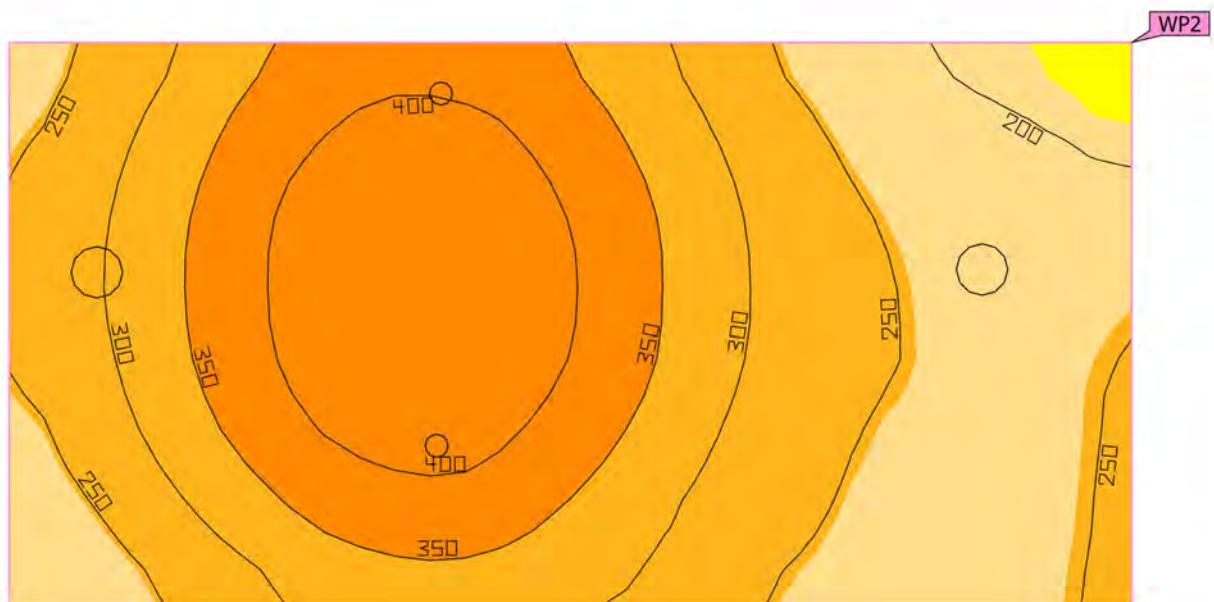
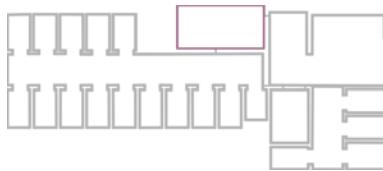
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy	
2	FRATER	DLG5-010	COB Down Light Gemini 05	–	11.0 W	1066 lm	96.9 lm/W
2	FRATER	DLS1-017	Down Light DLS1 17W 6500K	–	17.0 W	2040 lm	120.0 lm/W

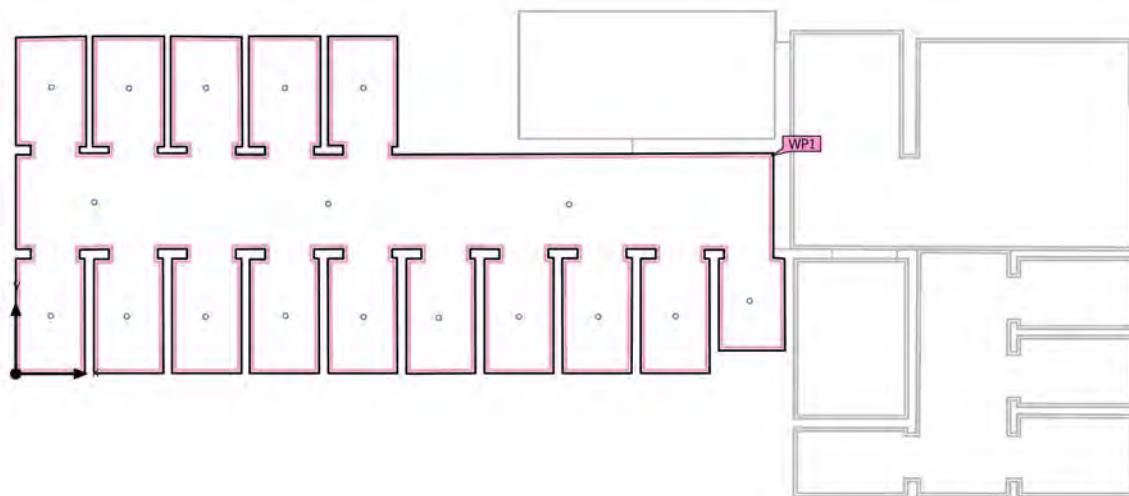
04-Toilet Area 01 · Storey 1 · Lockers (Light scene 1)
 Working plane (Lockers)



Properties		E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Lockers)		310 lx	163 lx	446 lx	0.53	0.37
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						WP2

Utilisation profile: DIALux presetting (34.2 Standard (office))

04-Toilet Area 01 · Storey 1 · Shower (Light scene 1)
Summary



Ground area	46.00 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.050 m

04-Toilet Area 01 · Storey 1 · Shower (Light scene 1)

Summary**Results**

	Symbol	Calculated	Index
Working plane	perpendicular	187 lx	WP1
	U _o (g ₁)	0.32	WP1
Energy estimation ⁽²⁾	Consumption	490 kWh/a	

(1) Based on a rectangular space of 11.818 m x 5.188 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

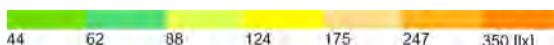
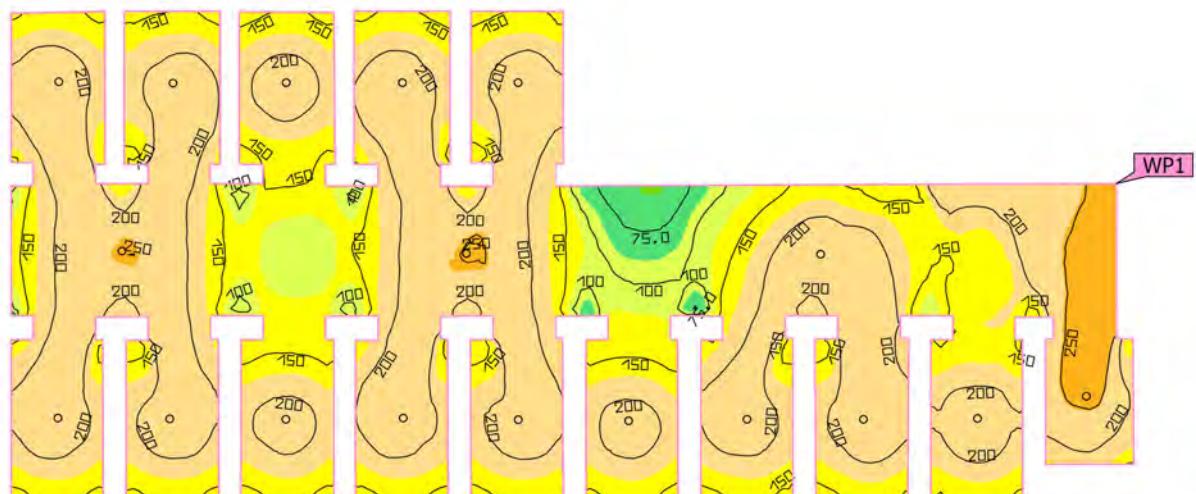
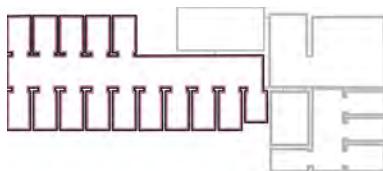
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy	
18	FRATER	DLG5-010	COB Down Light Gemini 05	–	11.0 W	1066 lm	96.9 lm/W

04-Toilet Area 01 · Storey 1 · Shower (Light scene 1)

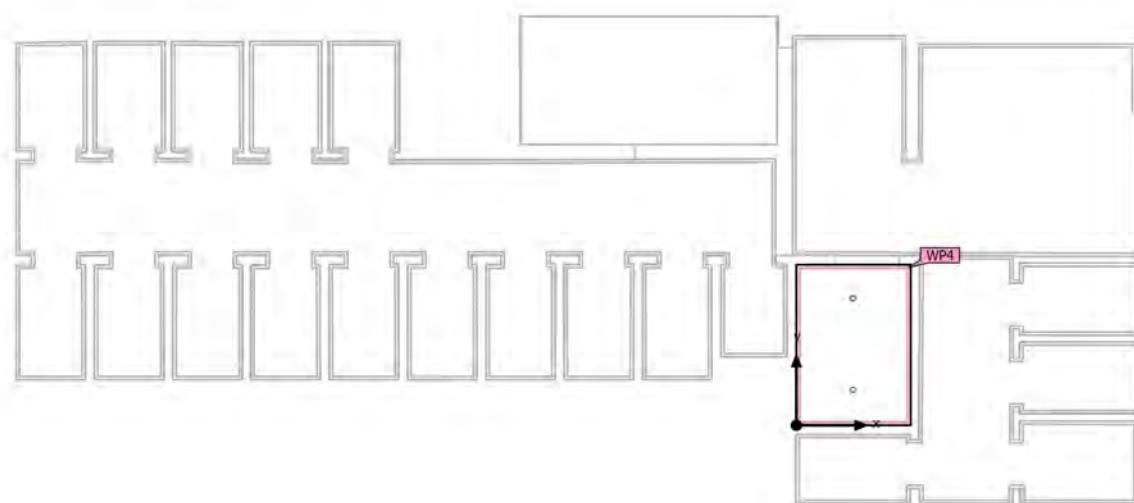
Working plane (Shower)



Properties		E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Shower)	187 lx	60.5 lx	296 lx	0.32	0.20	WP1
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.050 m						

Utilisation profile: DIALux presetting (34.2 Standard (office))

04-Toilet Area 01 · Storey 1 · Toilet-POD (Light scene 1)
Summary



Ground area	4.30 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.050 m

04-Toilet Area 01 · Storey 1 · Toilet-POD (Light scene 1)

Summary**Results**

	Symbol	Calculated	Index
Working plane	perpendicular	343 lx	WP4
	U _o (g ₁)	0.54	WP4
Energy estimation ⁽²⁾	Consumption	81.7 kWh/a	

(1) Based on a rectangular space of 1.752 m x 2.455 m and SHR of 0.25.

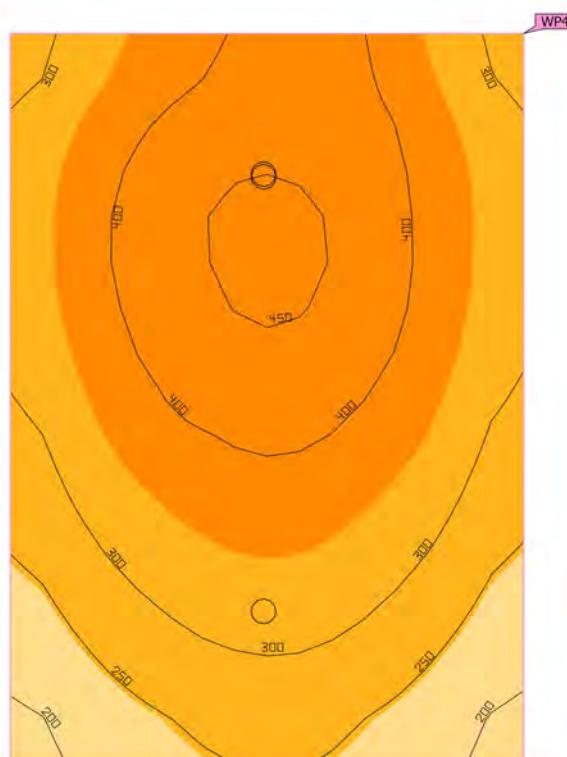
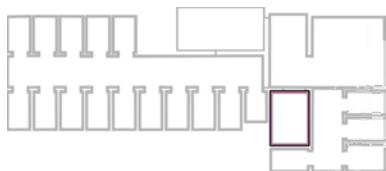
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy	
3	FRATER	DLG5-010	COB Down Light Gemini 05	–	11.0 W	1066 lm	96.9 lm/W

04-Toilet Area 01 · Storey 1 · Toilet-POD (Light scene 1)
 Working plane (Toilet-POD)

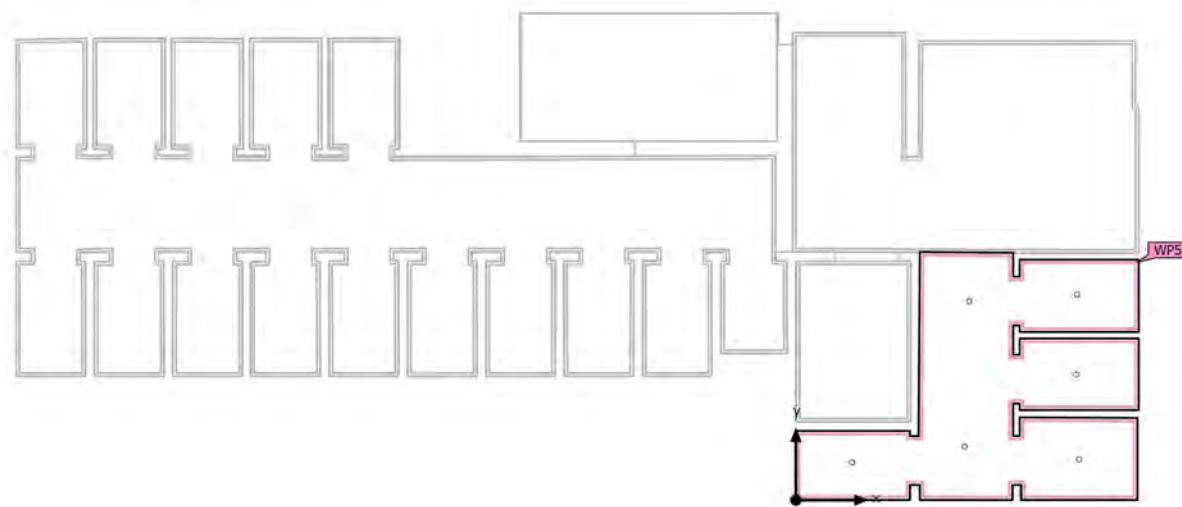


Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Toilet-POD)	343 lx	184 lx	460 lx	0.54	0.40
Perpendicular illuminance (adaptive)					
Height: 0.000 m, Wall zone: 0.050 m					WP4

Utilisation profile: DIALux presetting (34.2 Standard (office))

04-Toilet Area 01 · Storey 1 · Toilets (Light scene 1)

Summary



Ground area	13.93 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.050 m

04-Toilet Area 01 · Storey 1 · Toilets (Light scene 1)

Summary**Results**

	Symbol	Calculated	Index
Working plane	perpendicular	216 lx	WP5
	U _o (g ₁)	0.56	WP5
Energy estimation ⁽²⁾	Consumption	163 kWh/a	

(1) Based on a rectangular space of 3.802 m x 5.255 m and SHR of 0.25.

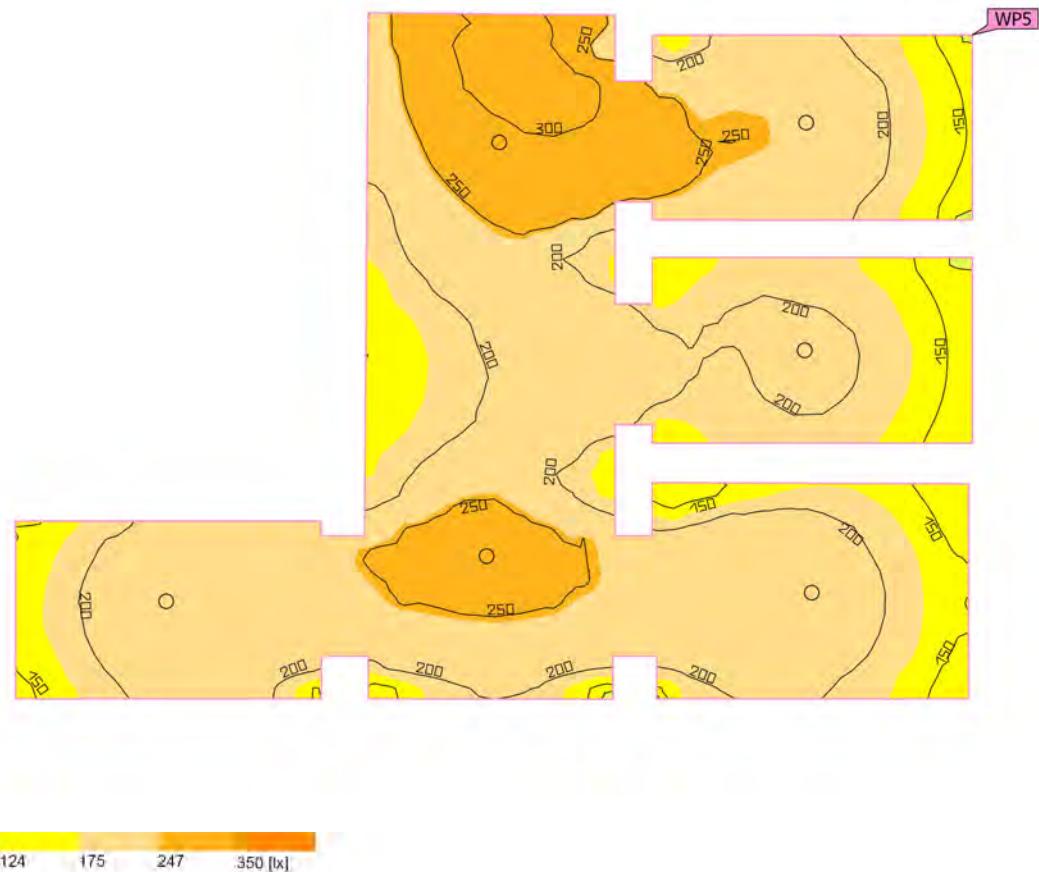
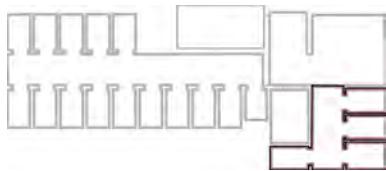
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy	
6	FRATER	DLG5-010	COB Down Light Gemini 05	–	11.0 W	1066 lm	96.9 lm/W

04-Toilet Area 01 · Storey 1 · Toilets (Light scene 1)
 Working plane (Toilets)

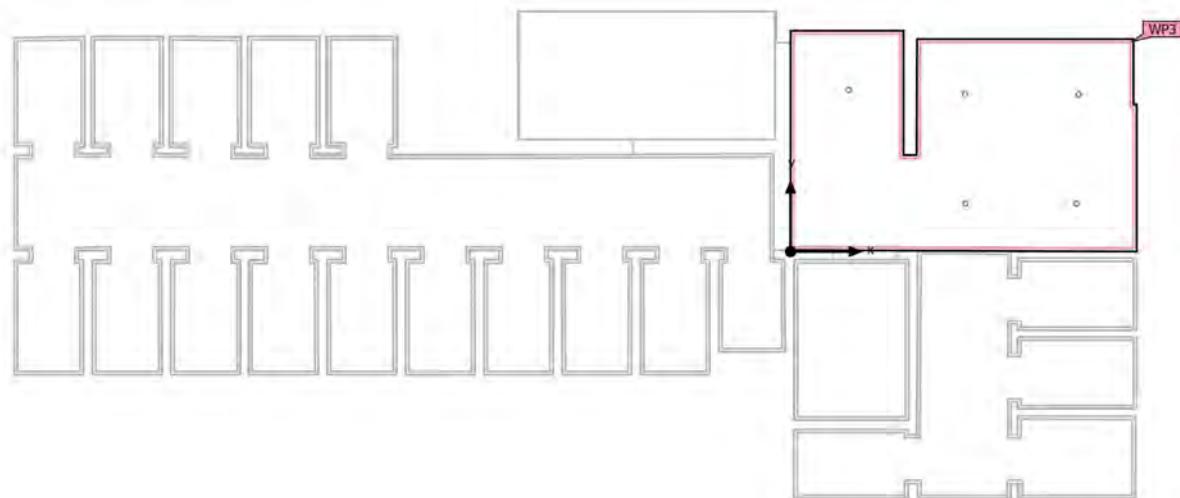


Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Toilets)	216 lx	121 lx	326 lx	0.56	0.37
Perpendicular illuminance (adaptive)					
Height: 0.000 m, Wall zone: 0.050 m					WP5

Utilisation profile: DIALux presetting (34.2 Standard (office))

04-Toilet Area 01 · Storey 1 · Wash Area (Light scene 1)

Summary



Ground area	17.05 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.050 m

04-Toilet Area 01 · Storey 1 · Wash Area (Light scene 1)

Summary**Results**

	Symbol	Calculated	Index
Working plane	perpendicular	253 lx	WP3
	U _o (g ₁)	0.47	WP3
Energy estimation ⁽²⁾	Consumption	136 kWh/a	

(1) Based on a rectangular space of 5.317 m x 3.375 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

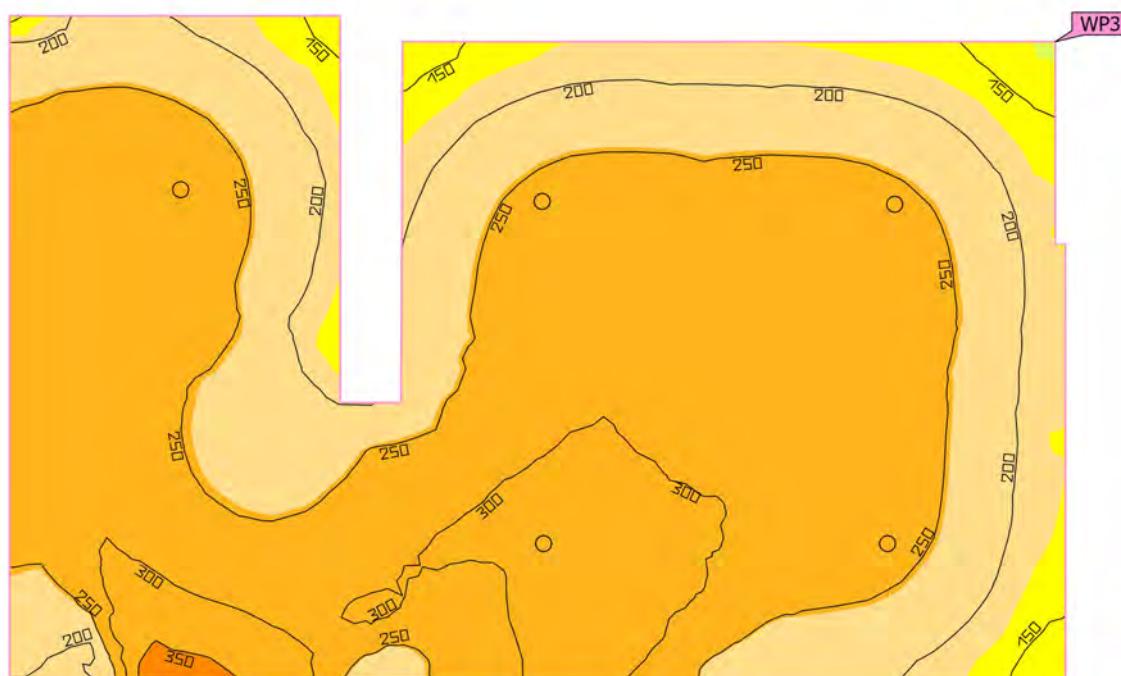
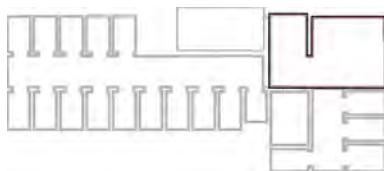
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy	
5	FRATER	DLG5-010	COB Down Light Gemini 05	–	11.0 W	1066 lm	96.9 lm/W

04-Toilet Area 01 · Storey 1 · Wash Area (Light scene 1)

Working plane (Wash Area)



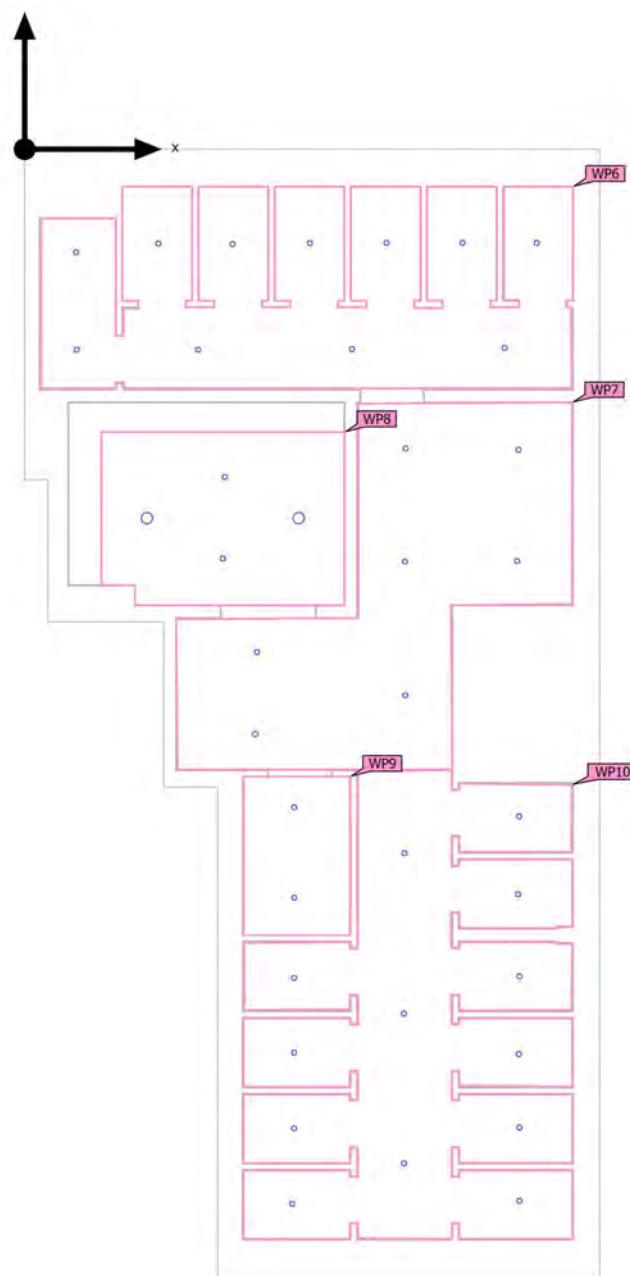
Properties		E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Wash Area)	253 lx	120 lx	373 lx	0.47	0.32	WP3
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.050 m						

Utilisation profile: DIALux presetting (34.2 Standard (office))

05-Toilet Area
Description

05-Toilet Area · Storey 1 (Light scene 1)

Calculation objects



05-Toilet Area · Storey 1 (Light scene 1)

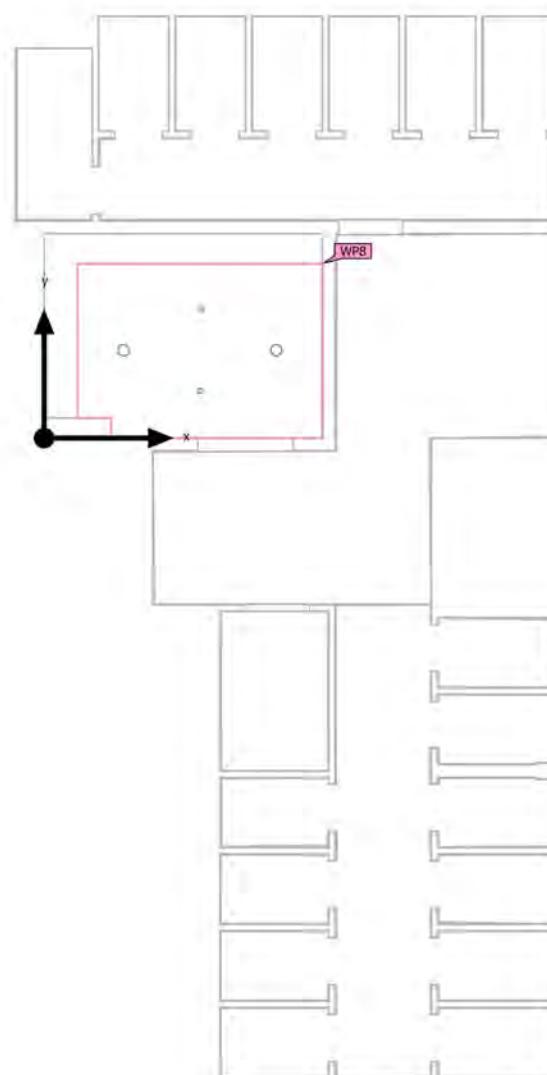
Calculation objects

Working planes

Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Lockers) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	293 lx	127 lx	460 lx	0.43	0.28
Working plane (Showers) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.010 m	195 lx	92.0 lx	263 lx	0.47	0.35
Working plane (Toilet-POD) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	238 lx	143 lx	331 lx	0.60	0.43
Working plane (Toilet) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	205 lx	94.2 lx	282 lx	0.46	0.33
Working plane (Wash Area) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	233 lx	97.4 lx	356 lx	0.42	0.27

05-Toilet Area · Storey 1 · Lockers (Light scene 1)

Summary



Ground area	10.29 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

05-Toilet Area · Storey 1 · Lockers (Light scene 1)

Summary**Results**

	Symbol	Calculated	Index
Working plane	perpendicular	293 lx	WP8
	U _o (g ₁)	0.43	WP8
Energy estimation ⁽²⁾	Consumption	139 kWh/a	

(1) Based on a rectangular space of 2.730 m x 3.830 m and SHR of 0.25.

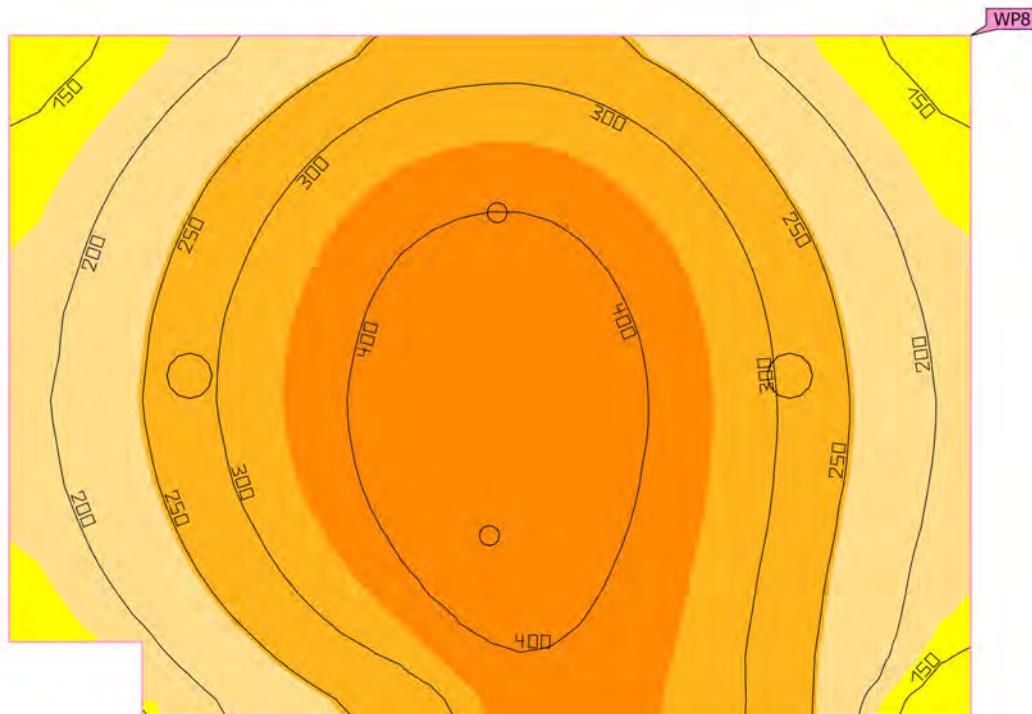
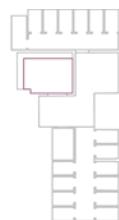
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy	
2	FRATER	DLG5-010	COB Down Light Gemini 05	–	11.0 W	1066 lm	96.9 lm/W
2	FRATER	DLS1-017	Down Light DLS1 17W 6500K	–	17.0 W	2040 lm	120.0 lm/W

05-Toilet Area · Storey 1 · Lockers (Light scene 1)
 Working plane (Lockers)

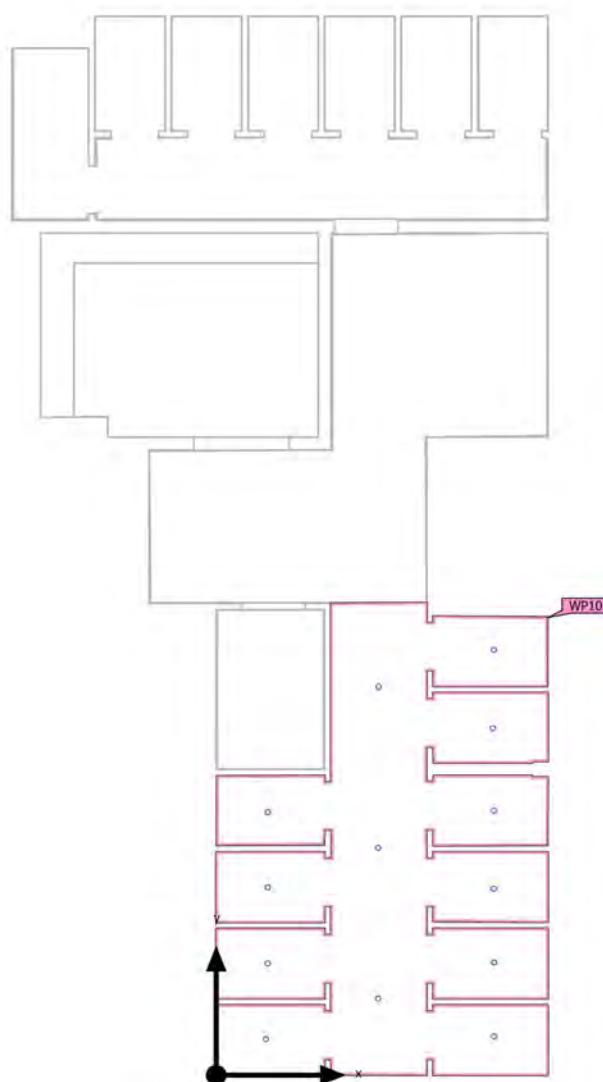


Properties		E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Lockers)	293 lx	127 lx	460 lx	0.43	0.28	WP8
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						

Utilisation profile: DIALux presetting (34.2 Standard (office))

05-Toilet Area · Storey 1 · Showers (Light scene 1)

Summary



Ground area	31.06 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.010 m

05-Toilet Area · Storey 1 · Showers (Light scene 1)

Summary**Results**

	Symbol	Calculated	Index
Working plane	perpendicular	195 lx	WP10
	U _o (g ₁)	0.47	WP10
Energy estimation ⁽²⁾	Consumption	354 kWh/a	

(1) Based on a rectangular space of 7.412 m x 5.200 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

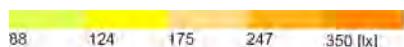
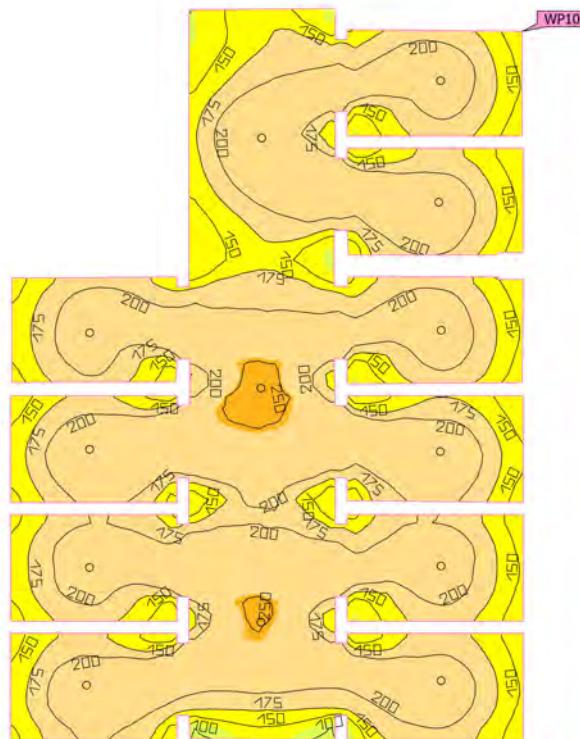
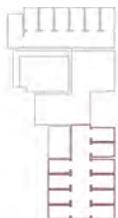
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
13	FRATER	DLG5-010	COB Down Light Gemini 05	–	11.0 W	1066 lm 96.9 lm/W

05-Toilet Area · Storey 1 · Showers (Light scene 1)

Working plane (Showers)

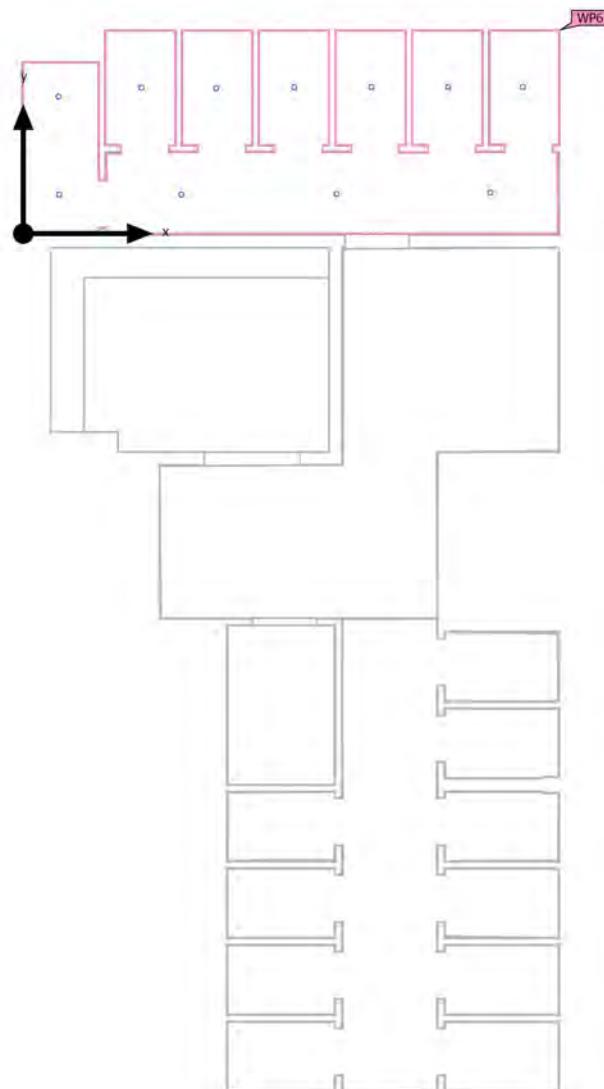


Properties		E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Showers)		195 lx	92.0 lx	0.47	0.35	WP10
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.010 m						

Utilisation profile: DIALux presetting (34.2 Standard (office))

05-Toilet Area · Storey 1 · Toilet (Light scene 1)

Summary



Ground area	24.58 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

05-Toilet Area · Storey 1 · Toilet (Light scene 1)

Summary**Results**

	Symbol	Calculated	Index
Working plane	perpendicular	205 lx	WP6
	U _o (g ₁)	0.46	WP6
Energy estimation ⁽²⁾	Consumption	299 kWh/a	

(1) Based on a rectangular space of 3.180 m x 8.380 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

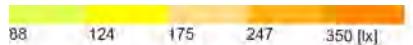
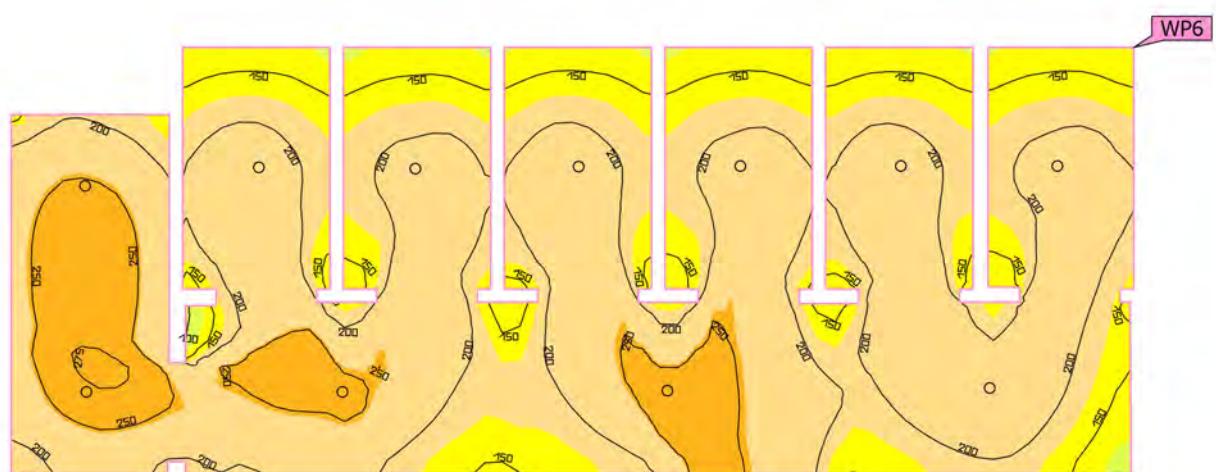
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy	
11	FRATER	DLG5-010	COB Down Light Gemini 05	–	11.0 W	1066 lm	96.9 lm/W

05-Toilet Area · Storey 1 · Toilet (Light scene 1)

Working plane (Toilet)

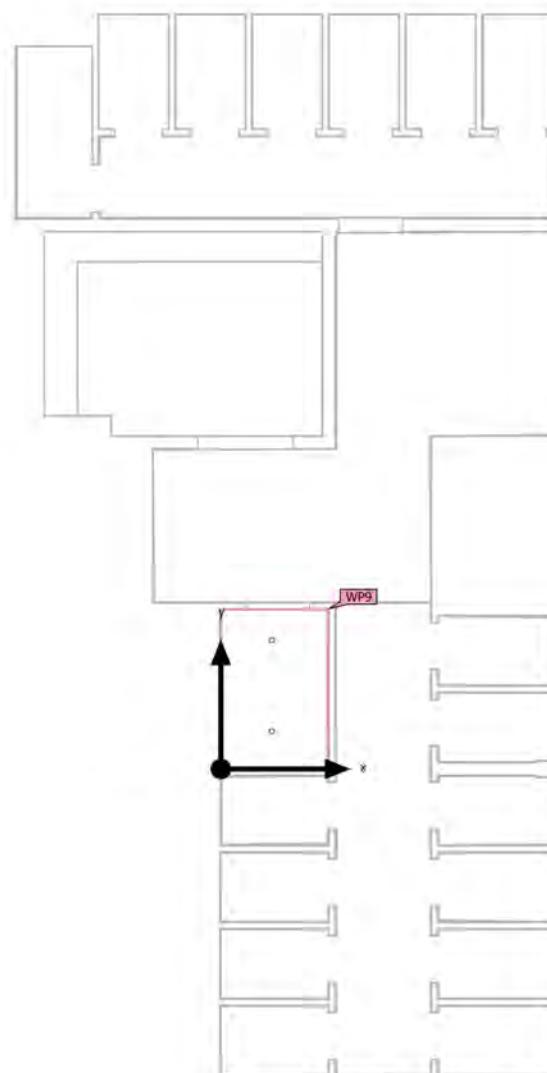


Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Toilet)	205 lx	94.2 lx	0.46	0.33	WP6
Perpendicular illuminance (adaptive)					
Height: 0.000 m, Wall zone: 0.000 m					

Utilisation profile: DIALux presetting (34.2 Standard (office))

05-Toilet Area · Storey 1 · Toilet-POD (Light scene 1)

Summary



Ground area	4.19 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

05-Toilet Area · Storey 1 · Toilet-POD (Light scene 1)

Summary**Results**

	Symbol	Calculated	Index
Working plane	perpendicular	238 lx	WP9
	U _o (g ₁)	0.60	WP9
Energy estimation ⁽²⁾	Consumption	54.5 kWh/a	

(1) Based on a rectangular space of 2.500 m x 1.675 m and SHR of 0.25.

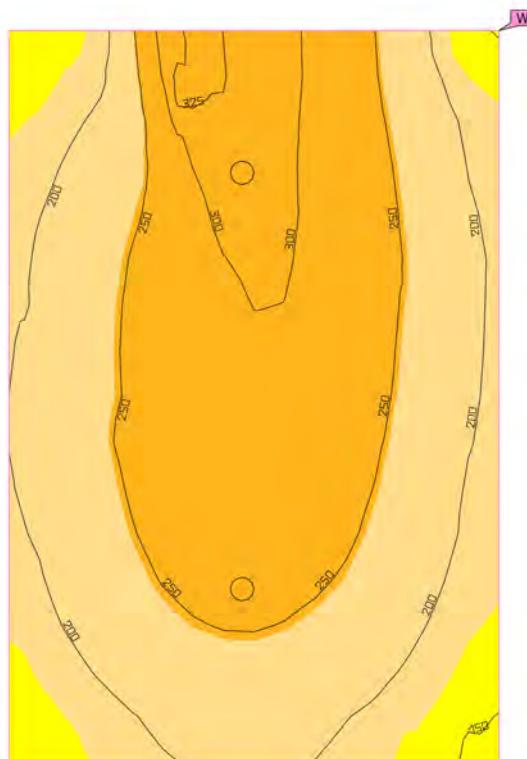
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy	
2	FRATER	DLG5-010	COB Down Light Gemini 05	–	11.0 W	1066 lm	96.9 lm/W

05-Toilet Area · Storey 1 · Toilet-POD (Light scene 1)
 Working plane (Toilet-POD)

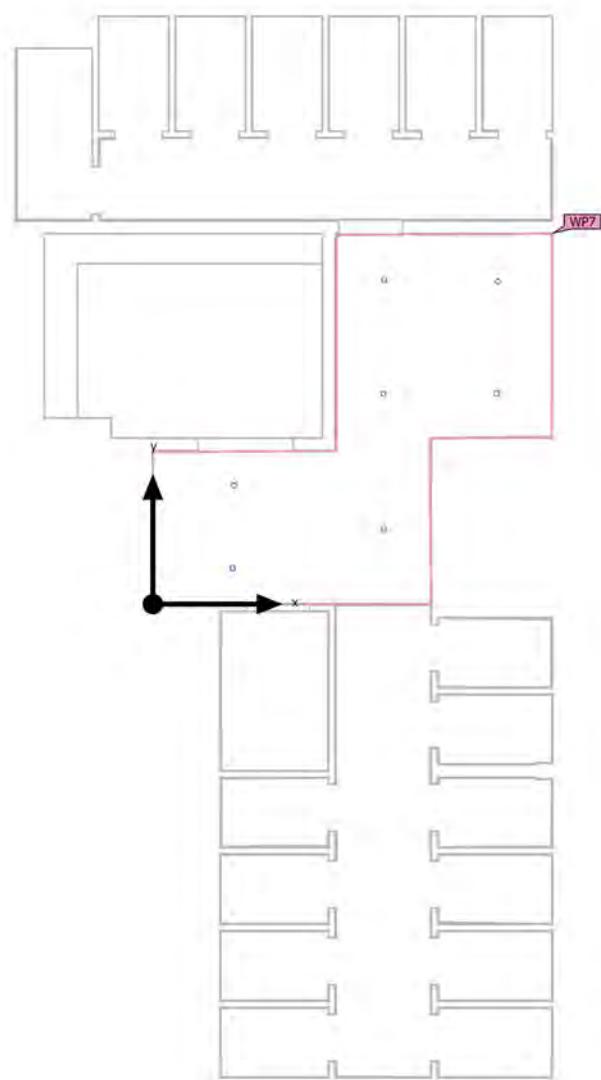


Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Toilet-POD) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	238 lx	143 lx	331 lx	0.60	0.43

Utilisation profile: DIALux presetting (34.2 Standard (office))

05-Toilet Area · Storey 1 · Wash Area (Light scene 1)

Summary



Ground area	21.33 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 0.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

05-Toilet Area · Storey 1 · Wash Area (Light scene 1)

Summary**Results**

	Symbol	Calculated	Index
Working plane	perpendicular	233 lx	WP7
	U _o (g ₁)	0.42	WP7
Energy estimation ⁽²⁾	Consumption	191 kWh/a	

(1) Based on a rectangular space of 5.788 m x 6.238 m and SHR of 0.25.

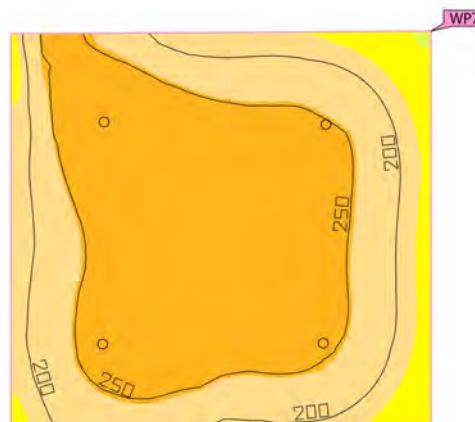
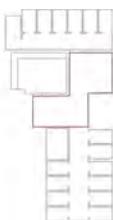
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy	
7	FRATER	DLG5-010	COB Down Light Gemini 05	–	11.0 W	1066 lm	96.9 lm/W

05-Toilet Area · Storey 1 · Wash Area (Light scene 1)
 Working plane (Wash Area)



Properties		E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Wash Area)	233 lx	97.4 lx	356 lx	0.42	0.27	WP7
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						

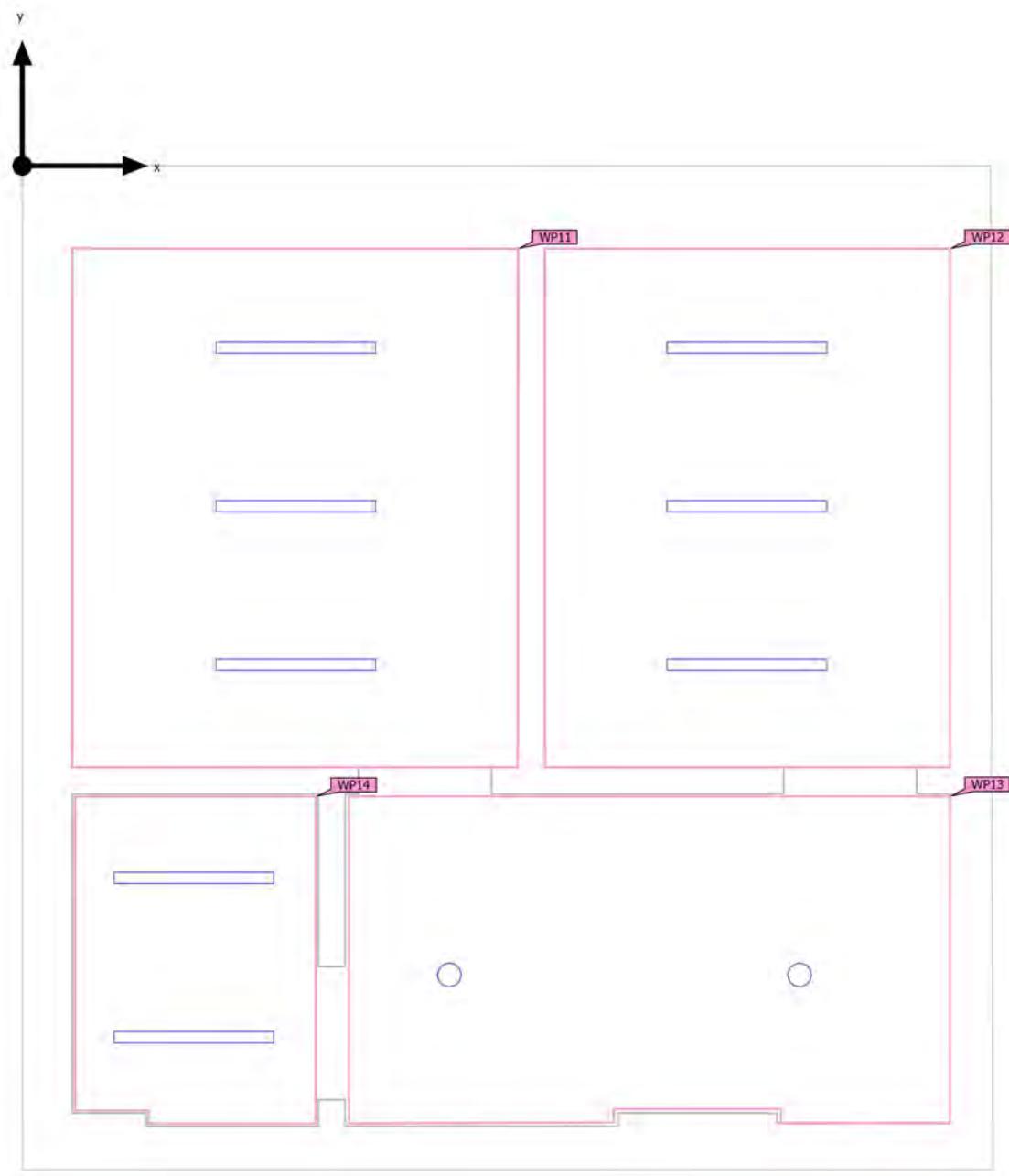
Utilisation profile: DIALux presetting (34.2 Standard (office))

06-Service Area 01

Description

06-Service Area 01 · Storey 1 (Light scene 1)

Calculation objects



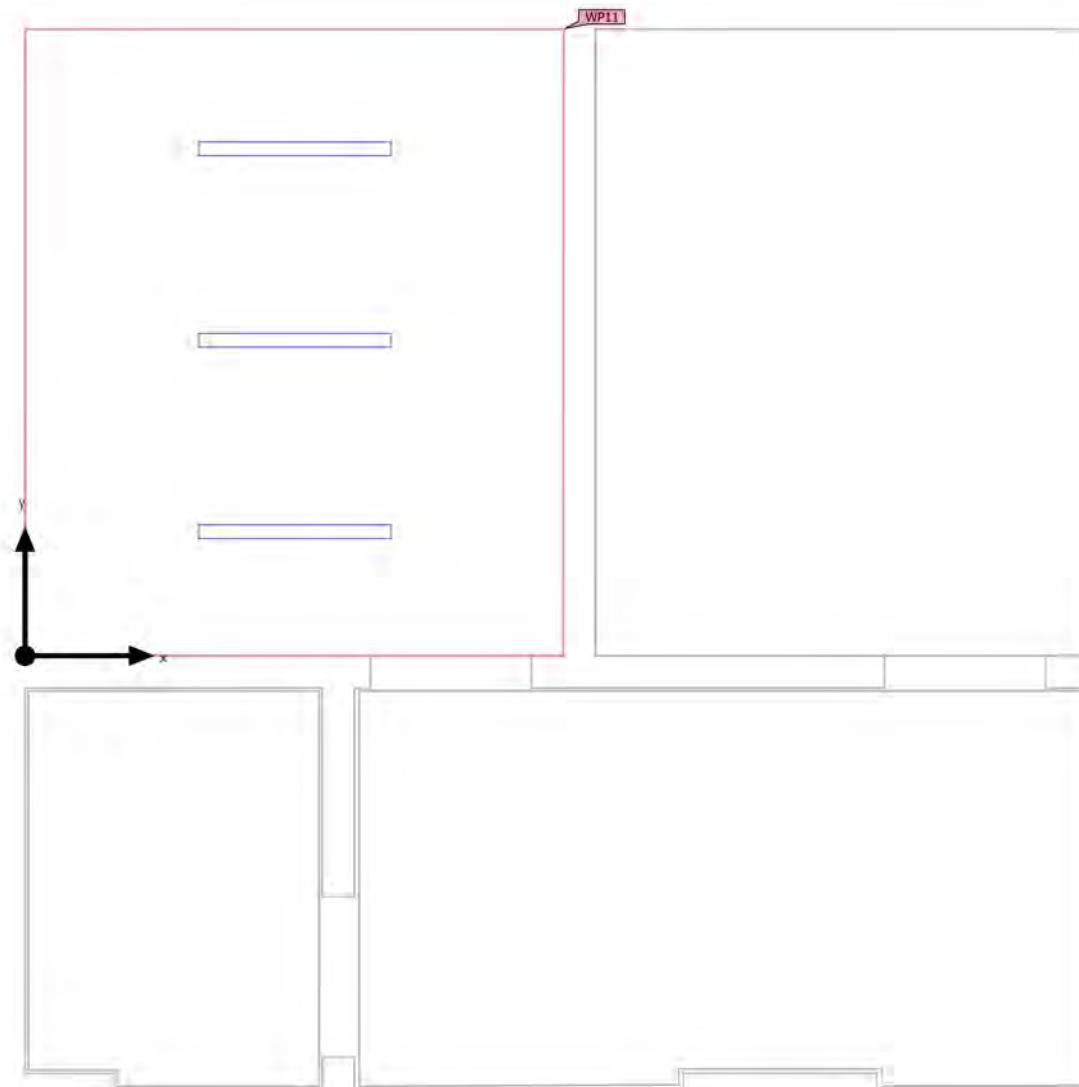
06-Service Area 01 · Storey 1 (Light scene 1)

Calculation objects

Working planes

Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (BDT-V/D) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	477 lx	279 lx	652 lx	0.58	0.43
Working plane (FTR-V/D) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	501 lx	297 lx	662 lx	0.59	0.45
Working plane (Service Rooms Corridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	250 lx	162 lx	349 lx	0.65	0.46
Working plane (Store) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	370 lx	310 lx	435 lx	0.84	0.71

06-Service Area 01 · Storey 1 · BDT-V/D (Light scene 1)
Summary



Ground area	13.06 m ²	Mounting height	3.000 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

06-Service Area 01 · Storey 1 · BDT-V/D (Light scene 1)

Summary

Results

	Symbol	Calculated	Index
Working plane	perpendicular	477 lx	WP11
	U _o (g ₁)	0.58	WP11
Energy estimation ⁽²⁾	Consumption	293 kWh/a	

(1) Based on a rectangular space of 3.350 m x 3.900 m and SHR of 0.25.

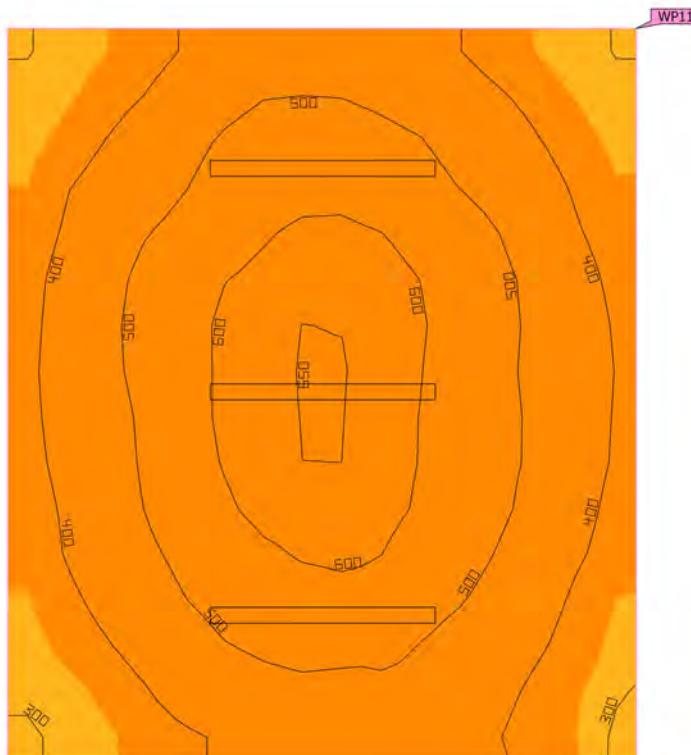
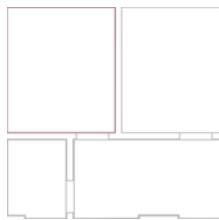
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
3	FRATER	WPCA-040	WEATHERPROOF CALIBER	–	39.5 W	4952 lm 125.4 lm/W

06-Service Area 01 · Storey 1 · BDT-V/D (Light scene 1)
 Working plane (BDT-V/D)

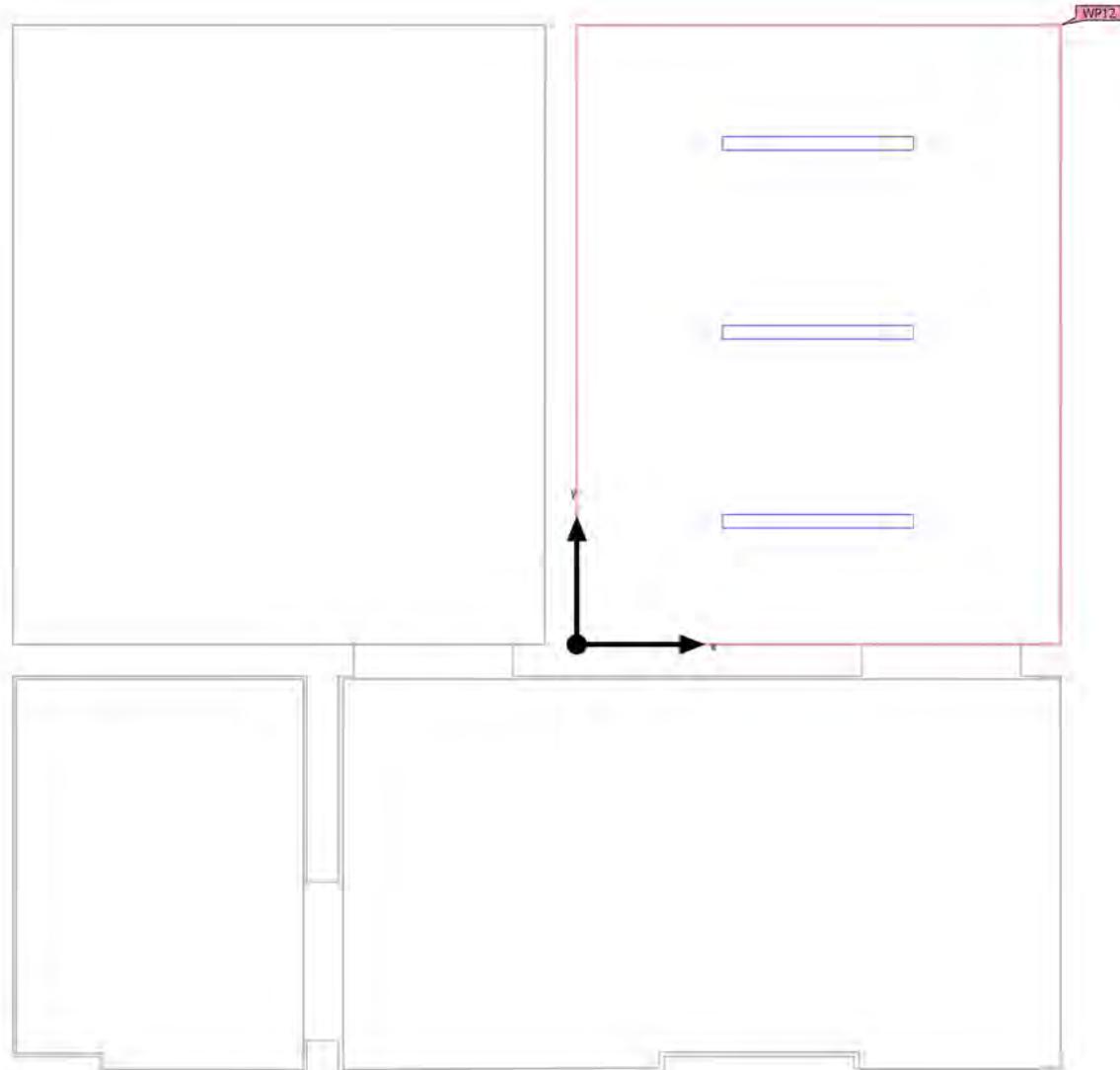


247 350 895 [lx]

Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (BDT-V/D)	477 lx	279 lx	652 lx	0.58	0.43
Perpendicular illuminance (adaptive)					
Height: 0.800 m, Wall zone: 0.000 m					WP11

Utilisation profile: DIALux presetting (34.2 Standard (office))

06-Service Area 01 · Storey 1 · FTR-V/D (Light scene 1)
Summary



Ground area	11.89 m ²	Mounting height	3.000 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.800 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

06-Service Area 01 · Storey 1 · FTR-V/D (Light scene 1) Summary

Results

	Symbol	Calculated	Index
Working plane	perpendicular	501 lx	WP12
	U _o (g ₁)	0.59	WP12
Energy estimation ⁽²⁾	Consumption	293 kWh/a	

(1) Based on a rectangular space of 3.048 m x 3.900 m and SHR of 0.25.

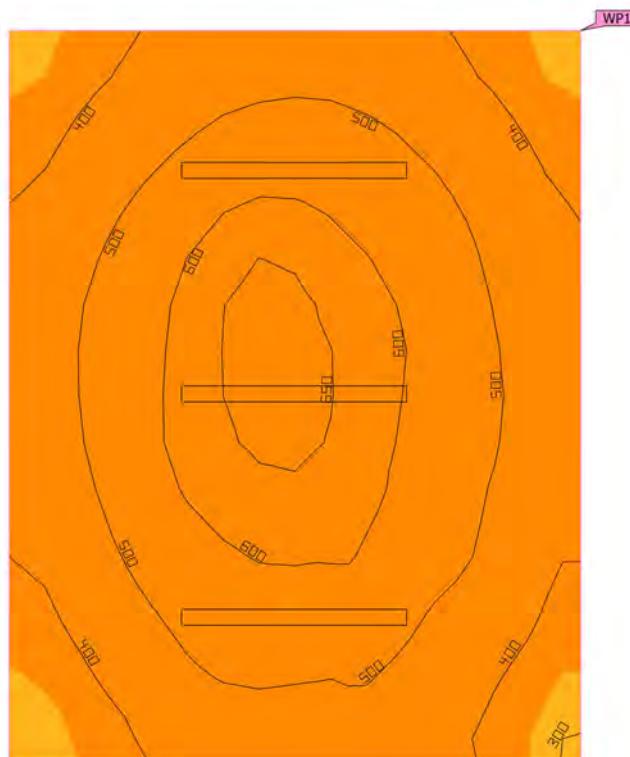
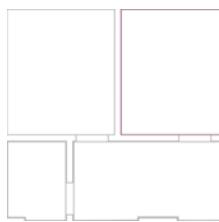
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
3	FRATER	WPCA-040	WEATHERPROOF CALIBER	–	39.5 W	4952 lm 125.4 lm/W

06-Service Area 01 · Storey 1 · FTR-V/D (Light scene 1)
 Working plane (FTR-V/D)

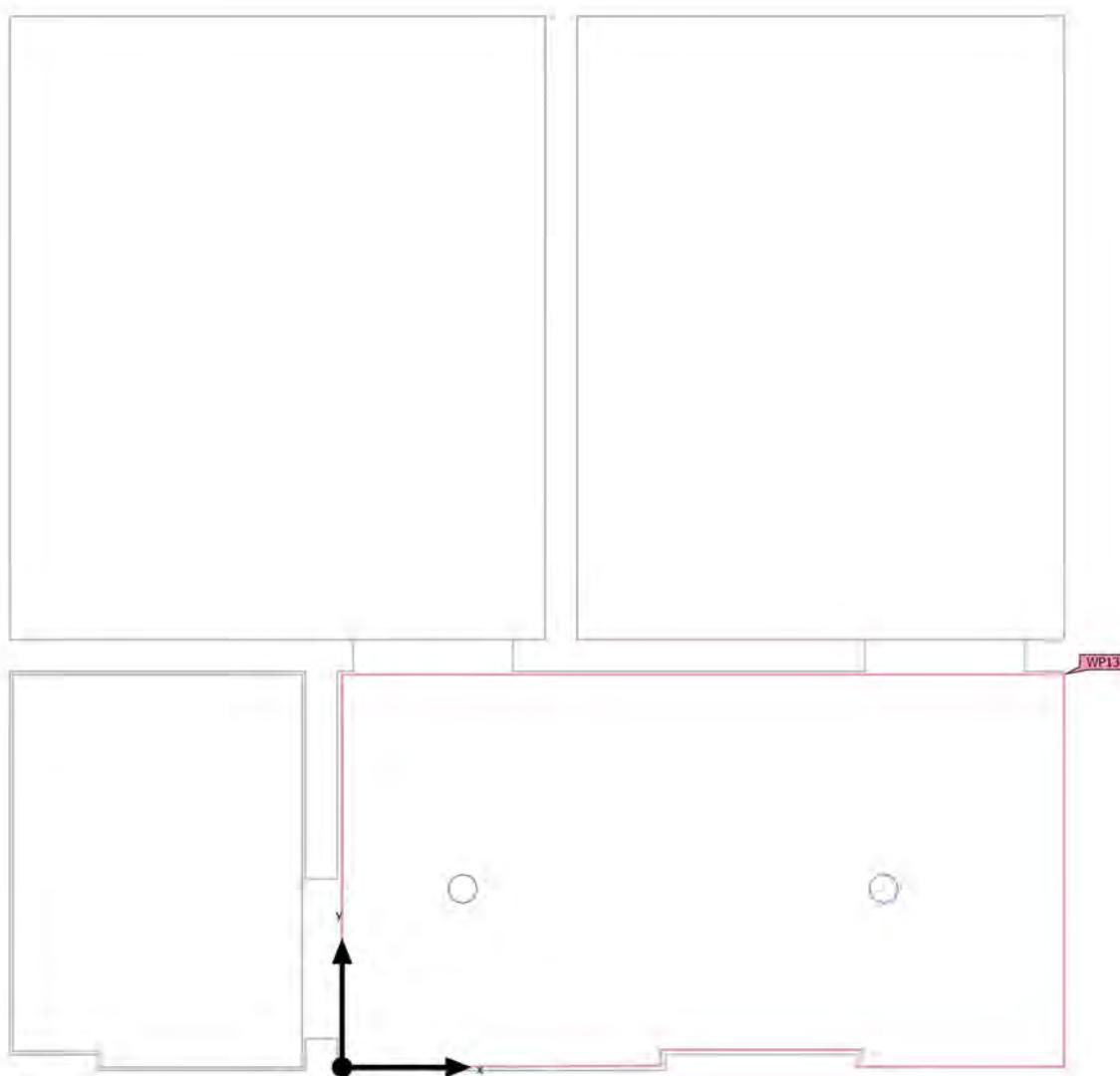


247 350 895 [lx]

Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (FTR-V/D) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	501 lx	297 lx	662 lx	0.59	0.45

Utilisation profile: DIALux presetting (34.2 Standard (office))

06-Service Area 01 · Storey 1 · Service Rooms Corridor (Light scene 1)
Summary



Ground area	10.97 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

06-Service Area 01 · Storey 1 · Service Rooms Corridor (Light scene 1) Summary

Results

	Symbol	Calculated	Index
Working plane	perpendicular	250 lx	WP13
	U _o (g ₁)	0.65	WP13
Energy estimation ⁽²⁾	Consumption	84.2 kWh/a	

(1) Based on a rectangular space of 2.461 m x 4.520 m and SHR of 0.25.

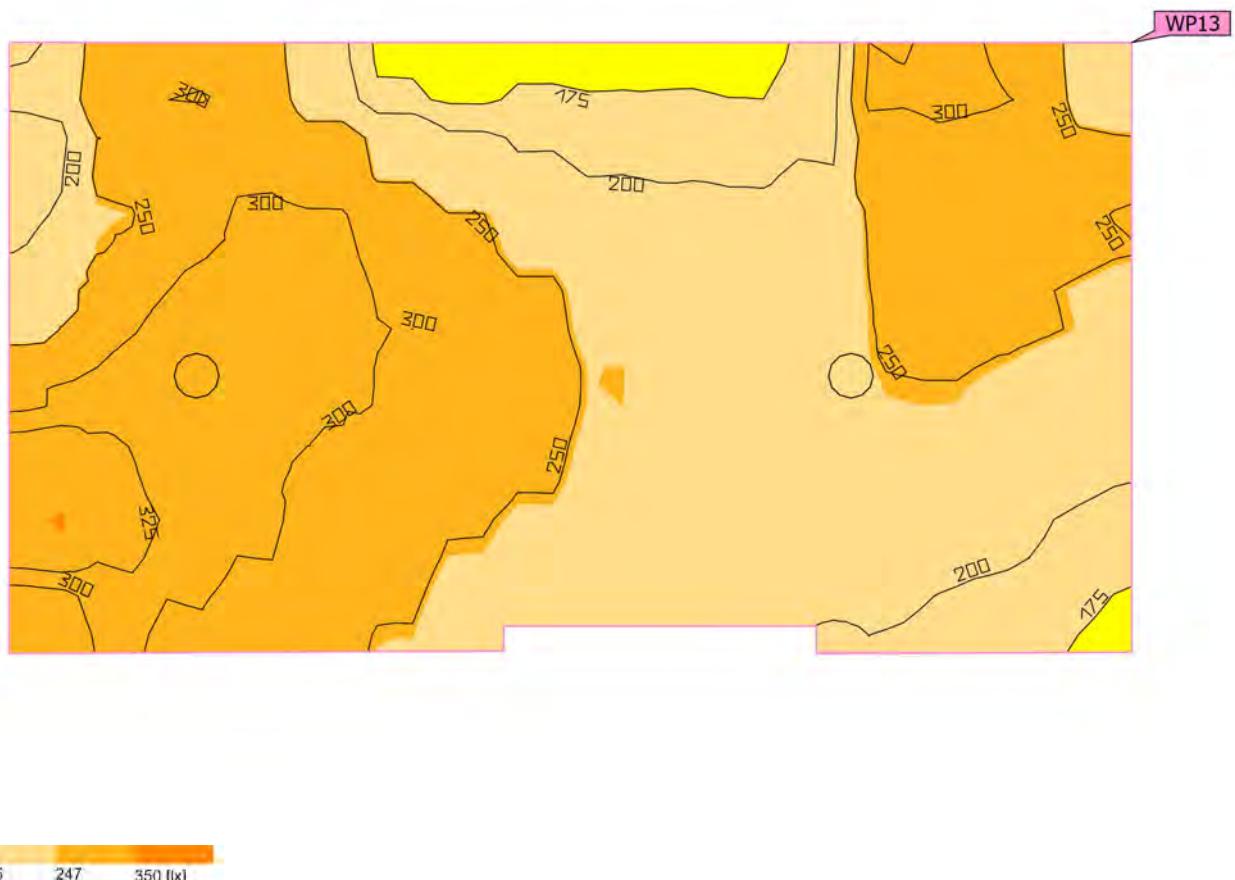
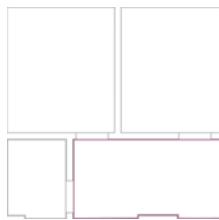
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

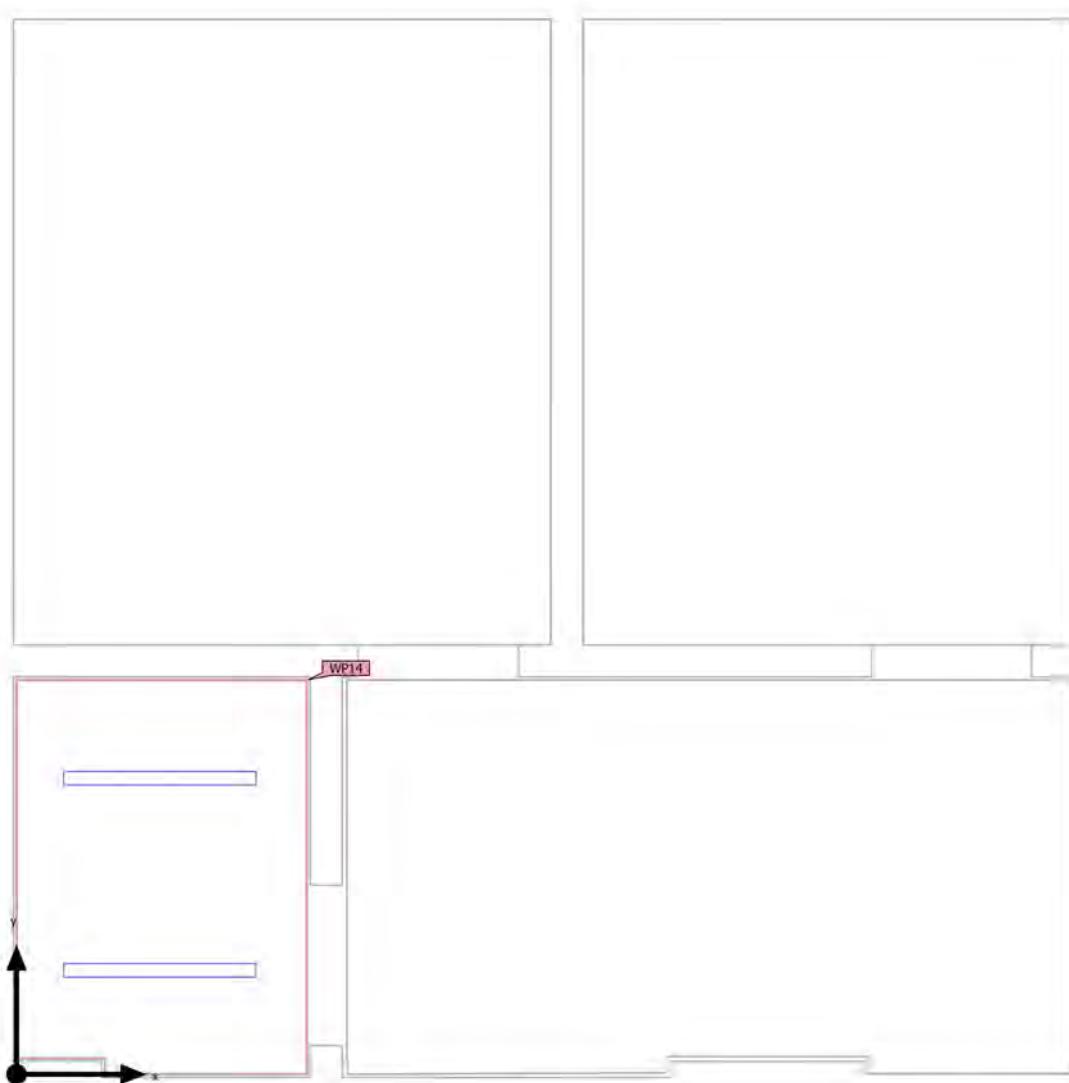
pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
2	FRATER	DLS1-017	Down Light DLS1 17W 6500K	–	17.0 W	2040 lm 120.0 lm/W

06-Service Area 01 · Storey 1 · Service Rooms Corridor (Light scene 1)
 Working plane (Service Rooms Corridor)



Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Service Rooms Corridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	250 lx	162 lx	349 lx	0.65	0.46

Utilisation profile: DIALux presetting (34.2 Standard (office))

06-Service Area 01 · Storey 1 · Store (Light scene 1)
Summary

Ground area	4.40 m ²	Mounting height	3.000 m
Reflection factors	Ceiling: 50.0 %, Walls: 0.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

06-Service Area 01 · Storey 1 · Store (Light scene 1)

Summary

Results

	Symbol	Calculated	Index
Working plane	perpendicular	370 lx	WP14
	U _o (g ₁)	0.84	WP14
Energy estimation ⁽²⁾	Consumption	196 kWh/a	

(1) Based on a rectangular space of 2.460 m x 1.810 m and SHR of 0.25.

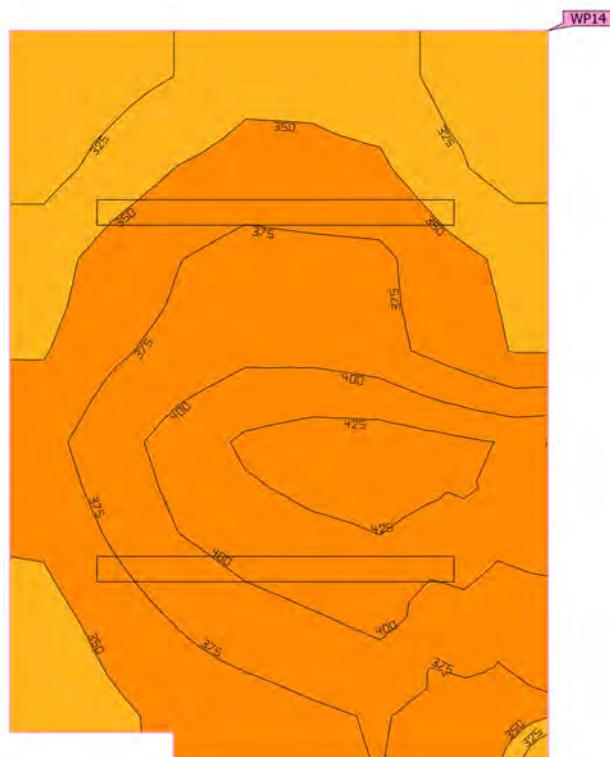
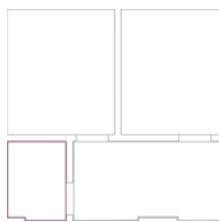
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
2	FRATER	WPCA-040	WEATHERPROOF CALIBER	–	39.5 W	4952 lm 125.4 lm/W

06-Service Area 01 · Storey 1 · Store (Light scene 1)
 Working plane (Store)



247 350 895 [lx]

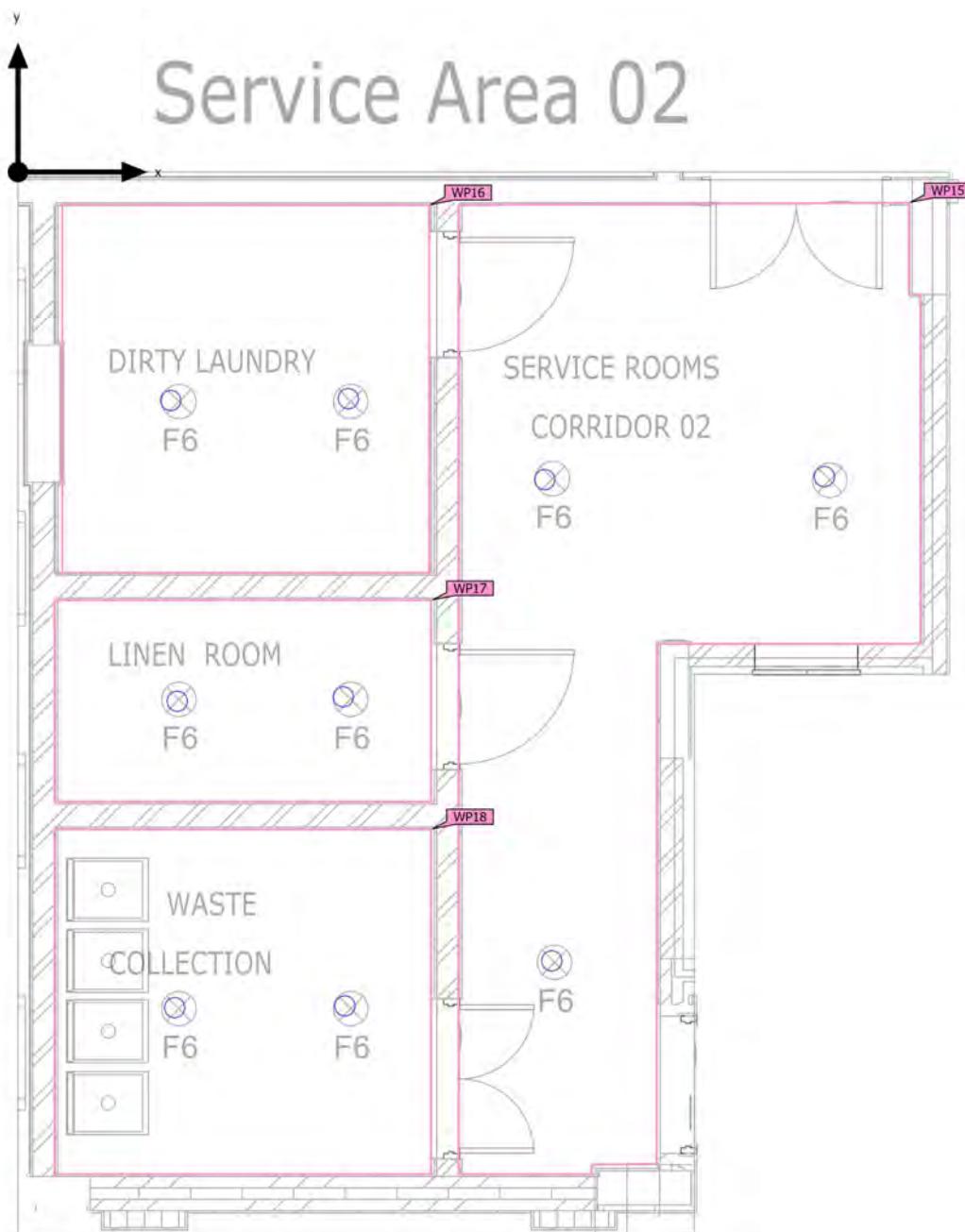
Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Store)	370 lx	310 lx	435 lx	0.84	0.71
Perpendicular illuminance (adaptive)					
Height: 0.000 m, Wall zone: 0.000 m					WP14

Utilisation profile: DIALux presetting (34.2 Standard (office))

07- Service Area 02

Description

07- Service Area 02 · Storey 1 (Light scene 1)
Calculation objects

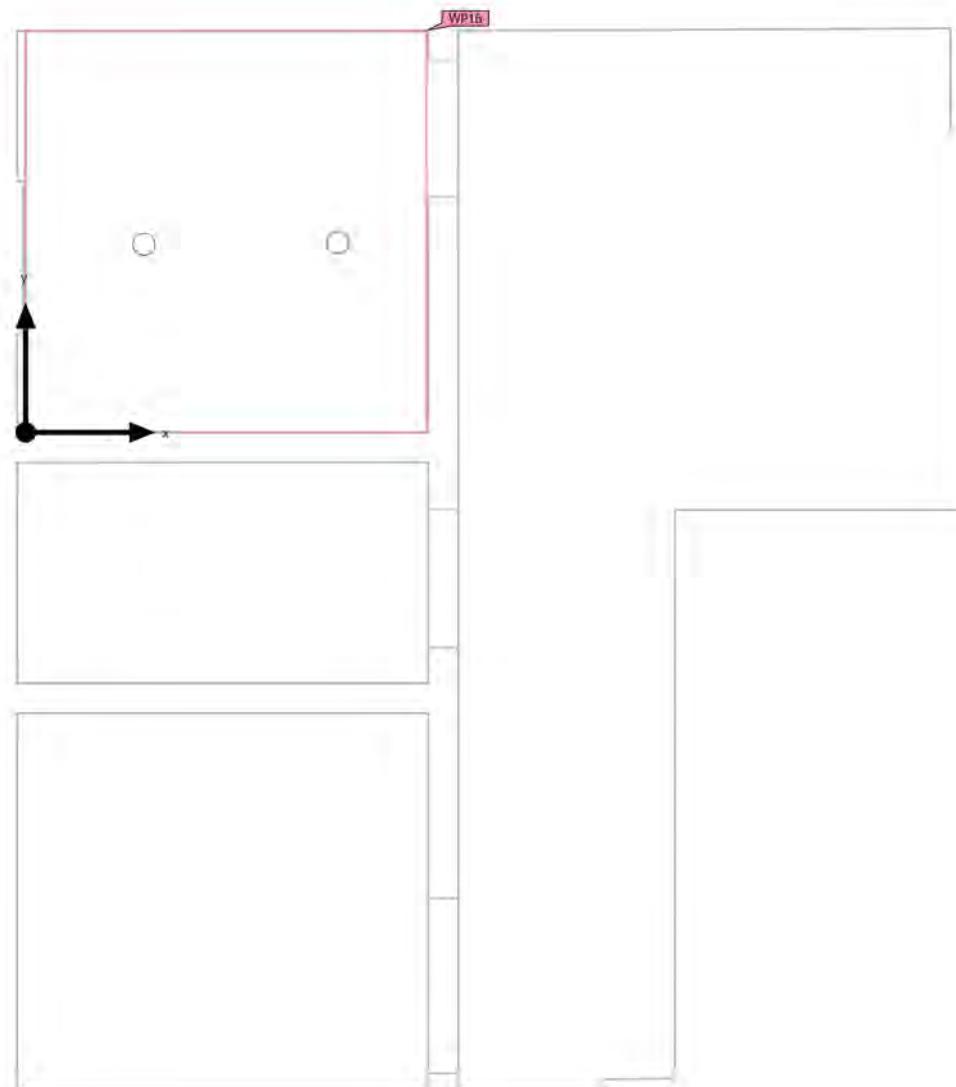


07- Service Area 02 · Storey 1 (Light scene 1)
Calculation objects

Working planes

Properties	E _{min}	E _{max}	U _o (g ₁)	g ₂	Index
Working plane (Dirty Laundry) Perpendicular illuminance (adaptive) Height: 1.000 m, Wall zone: 0.000 m	238 lx	79.0 lx	400 lx	0.33	0.20
Working plane (Linen Room) Perpendicular illuminance (adaptive) Height: 1.000 m, Wall zone: 0.000 m	334 lx	168 lx	446 lx	0.50	0.38
Working plane (Service Rooms Corridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	145 lx	58.1 lx	232 lx	0.40	0.25
Working plane (Waste Collection) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	183 lx	102 lx	241 lx	0.56	0.42

07- Service Area 02 · Storey 1 · Dirty Laundry (Light scene 1)
Summary



Ground area	10.27 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	1.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

07- Service Area 02 · Storey 1 · Dirty Laundry (Light scene 1) Summary

Results

	Symbol	Calculated	Index
Working plane	perpendicular	238 lx	WP16
	U _o (g ₁)	0.33	WP16
Energy estimation ⁽²⁾	Consumption	84.2 kWh/a	

(1) Based on a rectangular space of 3.210 m x 3.200 m and SHR of 0.25.

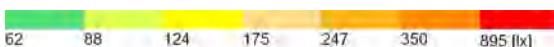
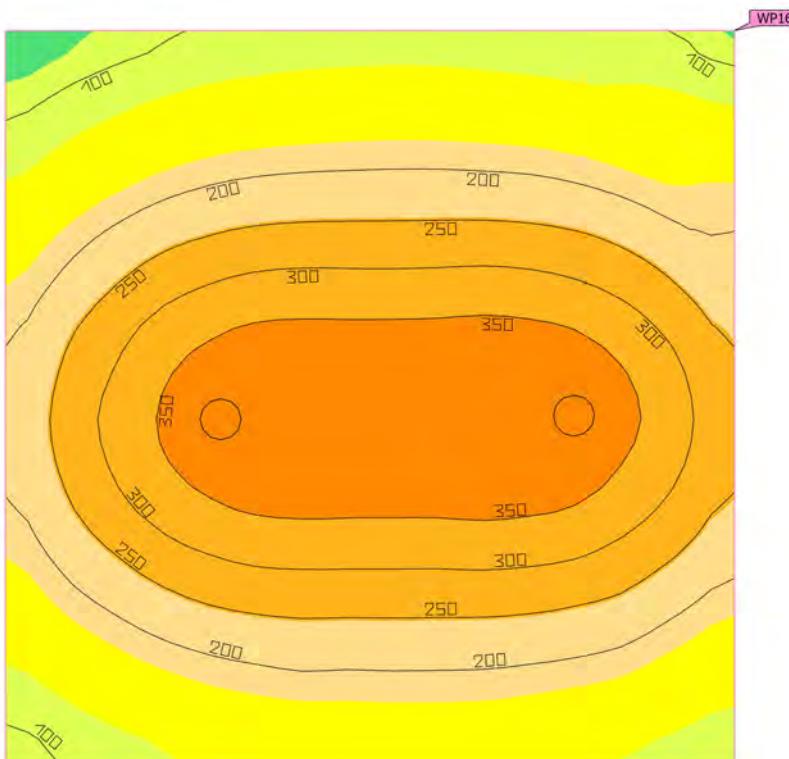
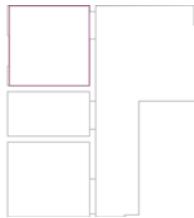
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
2	FRATER	DLS1-017	Down Light DLS1 17W 6500K	–	17.0 W	2040 lm 120.0 lm/W

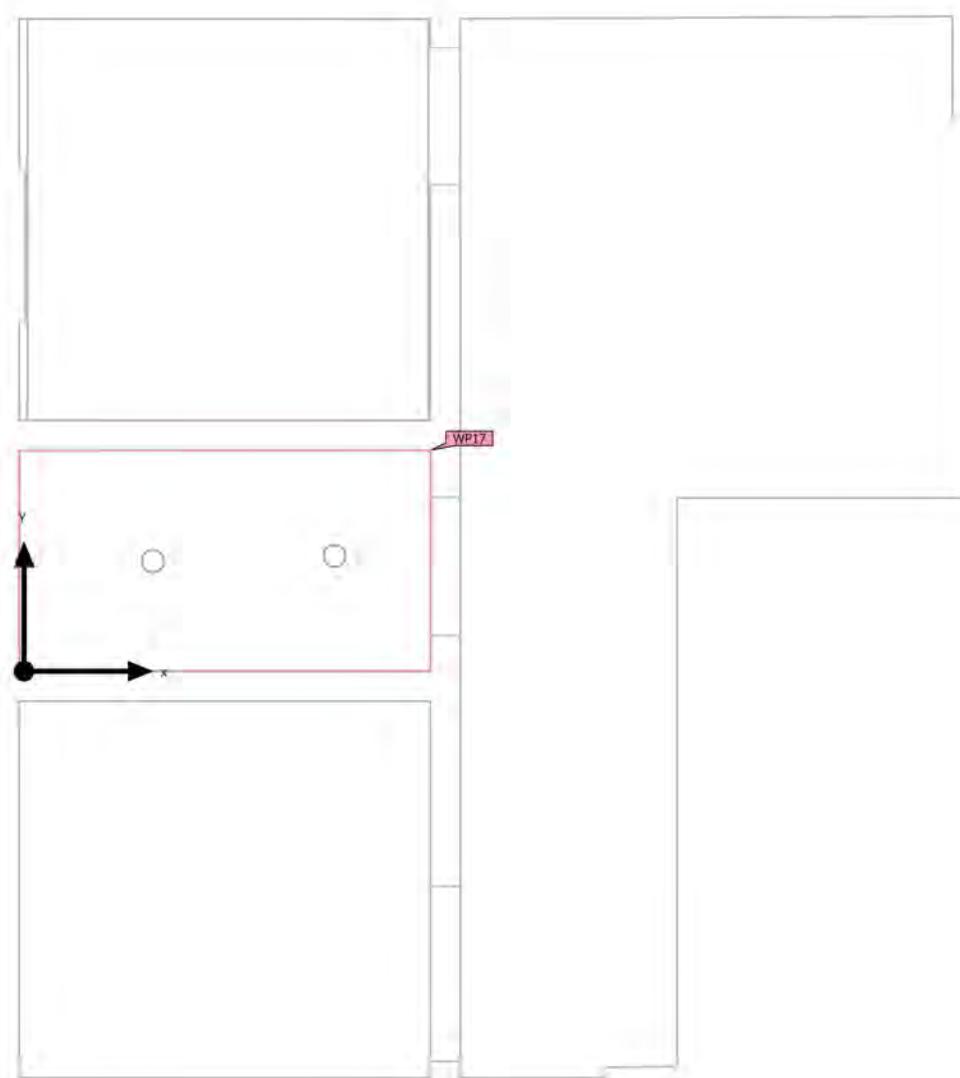
07- Service Area 02 · Storey 1 · Dirty Laundry (Light scene 1)
 Working plane (Dirty Laundry)



Properties		E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Dirty Laundry)	238 lx	79.0 lx	400 lx	0.33	0.20	WP16
Perpendicular illuminance (adaptive)						
Height: 1.000 m, Wall zone: 0.000 m						

Utilisation profile: DIALux presetting (34.2 Standard (office))

07- Service Area 02 · Storey 1 · Linen Room (Light scene 1)
Summary



Ground area	5.78 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	1.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

07- Service Area 02 · Storey 1 · Linen Room (Light scene 1) Summary

Results

	Symbol	Calculated	Index
Working plane	perpendicular	334 lx	WP17
	U _o (g ₁)	0.50	WP17
Energy estimation ⁽²⁾	Consumption	84.2 kWh/a	

(1) Based on a rectangular space of 1.760 m x 3.285 m and SHR of 0.25.

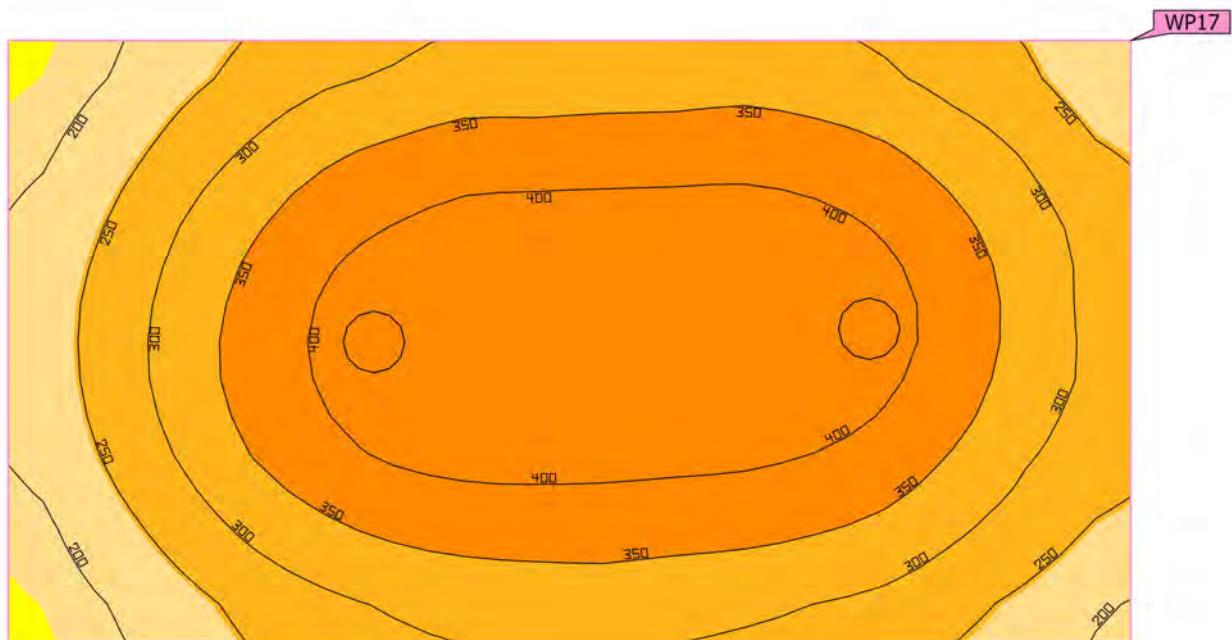
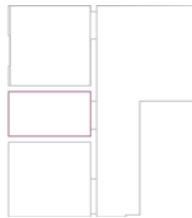
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy	
2	FRATER	DLS1-017	Down Light DLS1 17W 6500K	–	17.0 W	2040 lm	120.0 lm/W

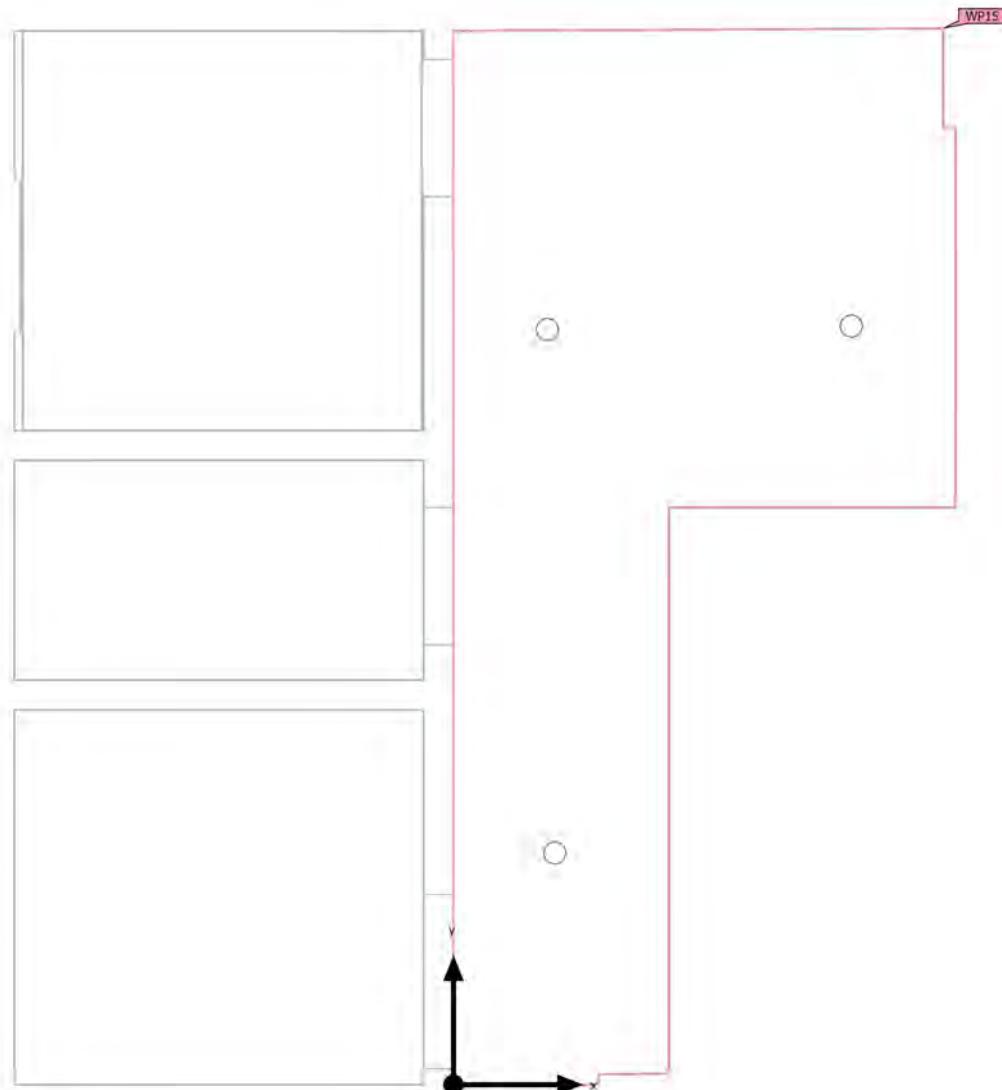
07- Service Area 02 · Storey 1 · Linen Room (Light scene 1)
 Working plane (Linen Room)



Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Linen Room) Perpendicular illuminance (adaptive) Height: 1.000 m, Wall zone: 0.000 m	334 lx	168 lx	446 lx	0.50	0.38

Utilisation profile: DIALux presetting (34.2 Standard (office))

07- Service Area 02 · Storey 1 · Service Rooms Corridor (Light scene 1)
Summary



Ground area	23.36 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

07- Service Area 02 · Storey 1 · Service Rooms Corridor (Light scene 1) Summary

Results

	Symbol	Calculated	Index
Working plane	perpendicular	145 lx	WP15
	U _o (g ₁)	0.40	WP15
Energy estimation ⁽²⁾	Consumption	126 kWh/a	

(1) Based on a rectangular space of 8.480 m x 4.030 m and SHR of 0.25.

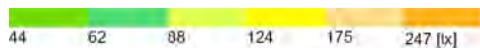
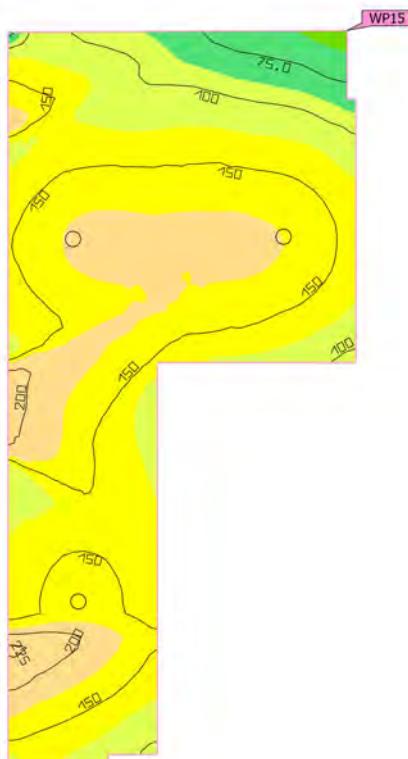
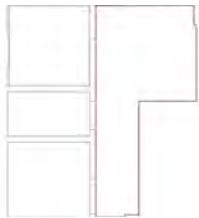
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

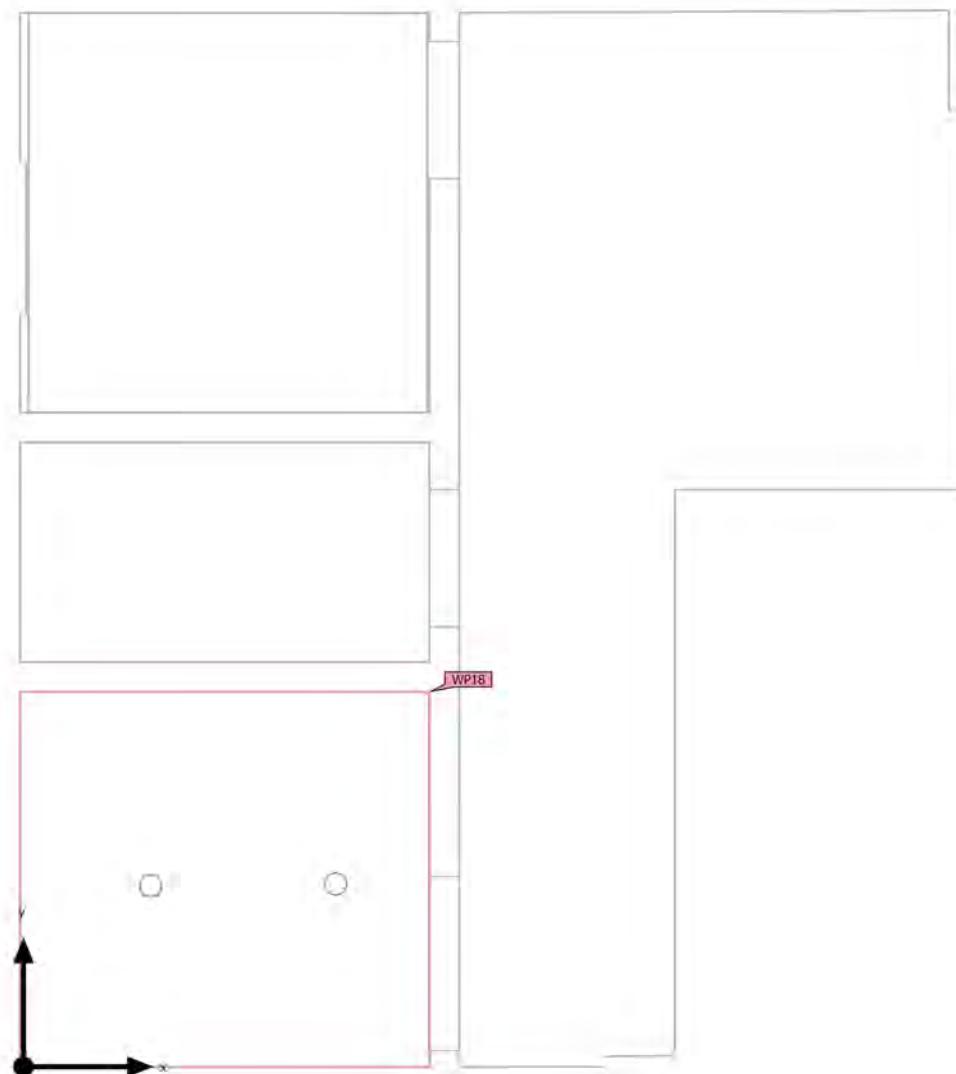
pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
3	FRATER	DLS1-017	Down Light DLS1 17W 6500K	–	17.0 W	2040 lm 120.0 lm/W

07- Service Area 02 · Storey 1 · Service Rooms Corridor (Light scene 1)
 Working plane (Service Rooms Corridor)



Properties		E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Service Rooms Corridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m		145 lx	58.1 lx	232 lx	0.40	0.25

Utilisation profile: DIALux presetting (34.2 Standard (office))

07- Service Area 02 · Storey 1 · Waste Collection (Light scene 1)
Summary

Ground area	9.89 m ²	Mounting height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Height Working plane	0.000 m
Maintenance factor	0.80 (fixed)	Wall zone Working plane	0.000 m

07- Service Area 02 · Storey 1 · Waste Collection (Light scene 1) Summary

Results

	Symbol	Calculated	Index
Working plane	perpendicular	183 lx	WP18
	U _o (g ₁)	0.56	WP18
Energy estimation ⁽²⁾	Consumption	84.2 kWh/a	

(1) Based on a rectangular space of 3.285 m x 3.010 m and SHR of 0.25.

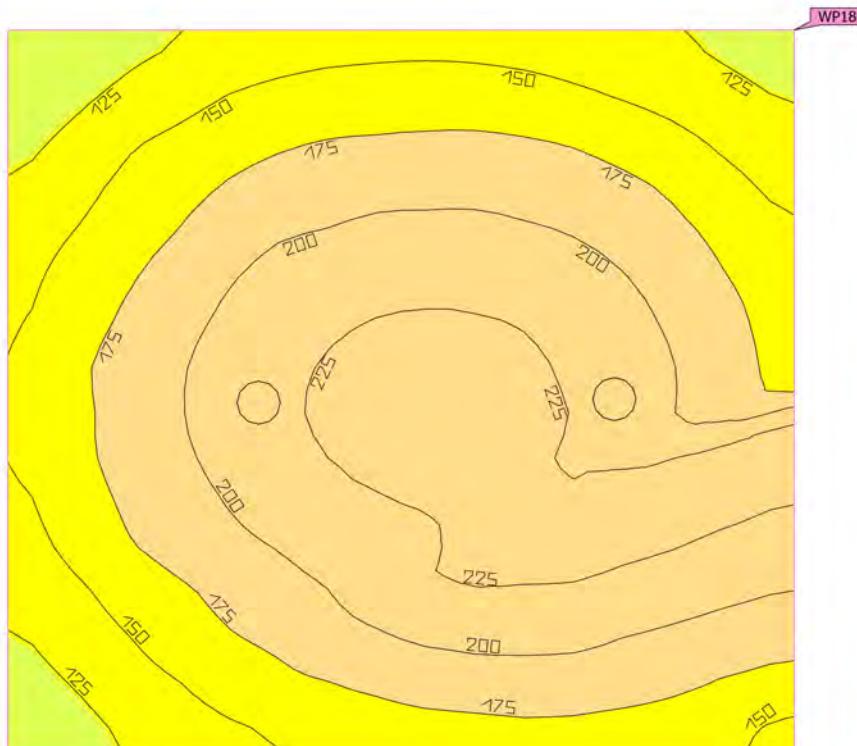
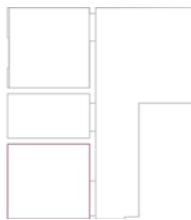
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy	
2	FRATER	DLS1-017	Down Light DLS1 17W 6500K	–	17.0 W	2040 lm	120.0 lm/W

07- Service Area 02 · Storey 1 · Waste Collection (Light scene 1)
 Working plane (Waste Collection)



Properties		E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Waste Collection) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m		183 lx	102 lx	241 lx	0.56	0.42

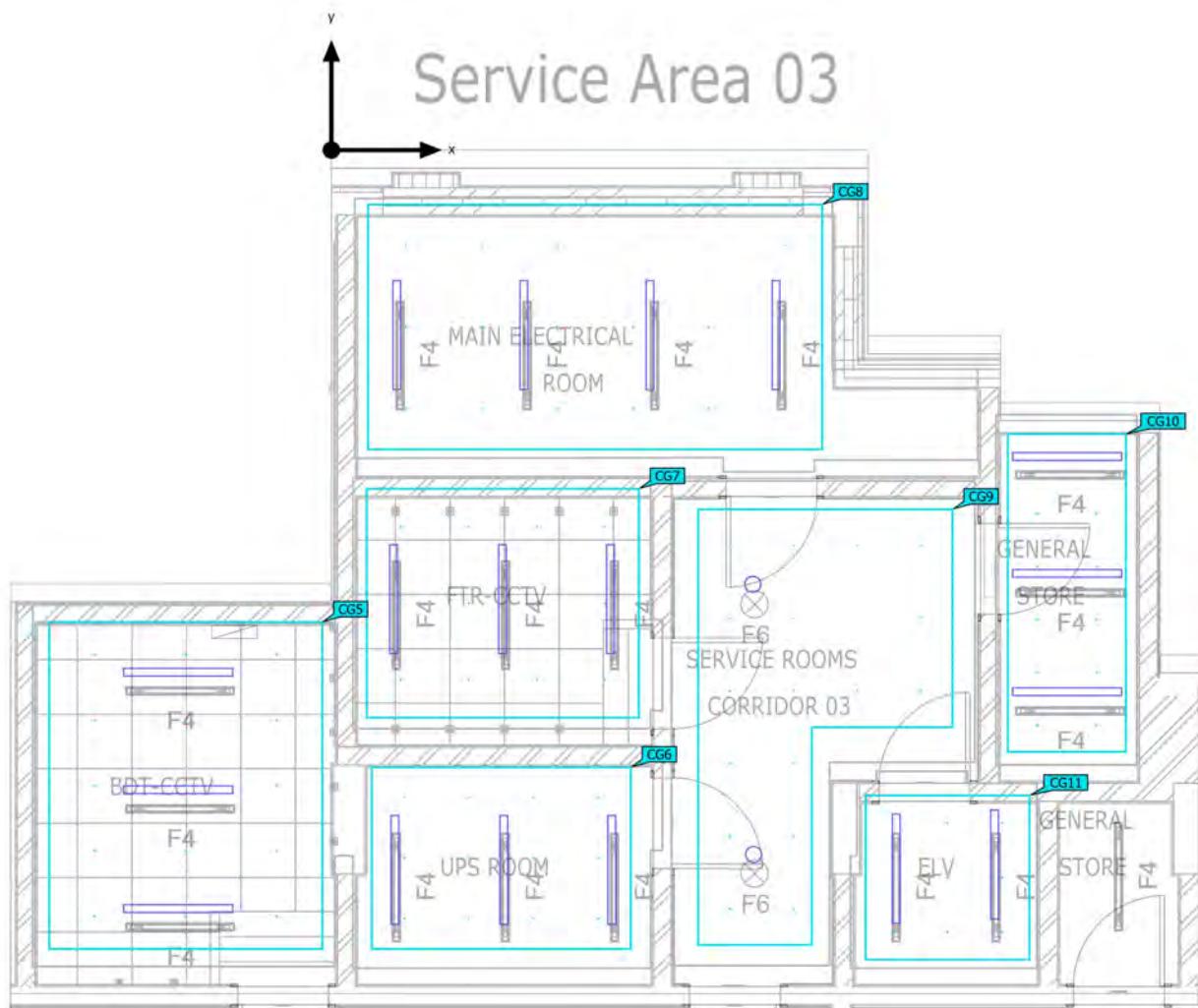
Utilisation profile: DIALux presetting (34.2 Standard (office))

08-Service Area 03

Description

08-Service Area 03 · Storey 1 (Light scene 1)

Calculation objects



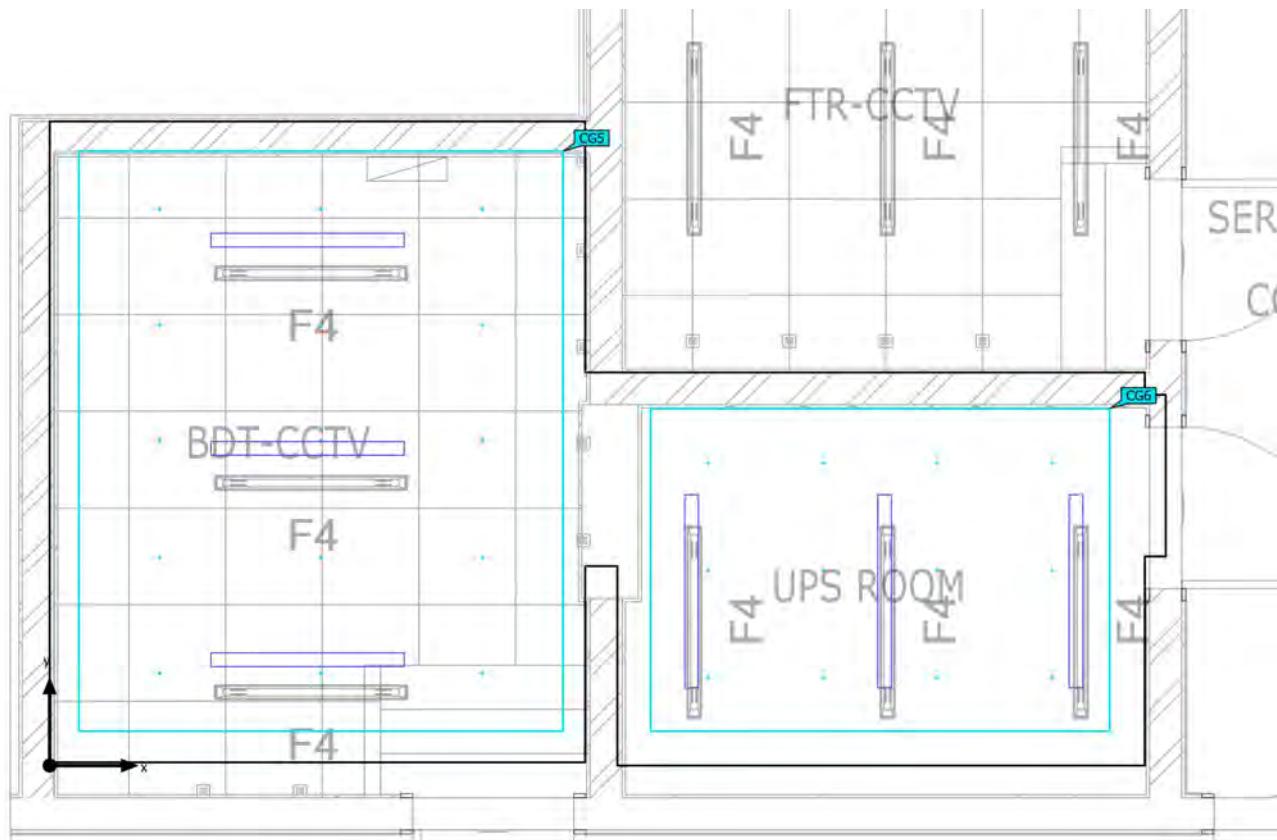
08-Service Area 03 · Storey 1 (Light scene 1)

Calculation objects

Calculation surfaces

Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index	
BDT- CCTV Perpendicular illuminance Height: 0.800 m	537 lx	411 lx	663 lx	0.77	0.62	CG5
ELV Perpendicular illuminance Height: 0.800 m	583 lx	523 lx	665 lx	0.90	0.79	CG11
FTR CCTV Perpendicular illuminance Height: 0.800 m	596 lx	514 lx	707 lx	0.86	0.73	CG7
General Store Perpendicular illuminance Height: 0.000 m	458 lx	390 lx	500 lx	0.85	0.78	CG10
Main Electric Room Perpendicular illuminance Height: 0.800 m	548 lx	430 lx	667 lx	0.78	0.64	CG8
Service Room Corridor Perpendicular illuminance Height: 0.000 m	130 lx	50.7 lx	170 lx	0.39	0.30	CG9
UPS Perpendicular illuminance Height: 0.000 m	493 lx	432 lx	549 lx	0.88	0.79	CG6

08-Service Area 03 · Storey 1 · BDT-CCTV/ UPS (Light scene 1)
Summary



Ground area	21.59 m ²		
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Clearance height	3.000 m
Maintenance factor	0.80 (fixed)	Mounting height	3.000 m

08-Service Area 03 · Storey 1 · BDT-CCTV/ UPS (Light scene 1) Summary

Results

	Symbol	Calculated	Index
Energy estimation ⁽²⁾	Consumption	587 kWh/a	

(1) Based on a rectangular space of 4.000 m x 6.930 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

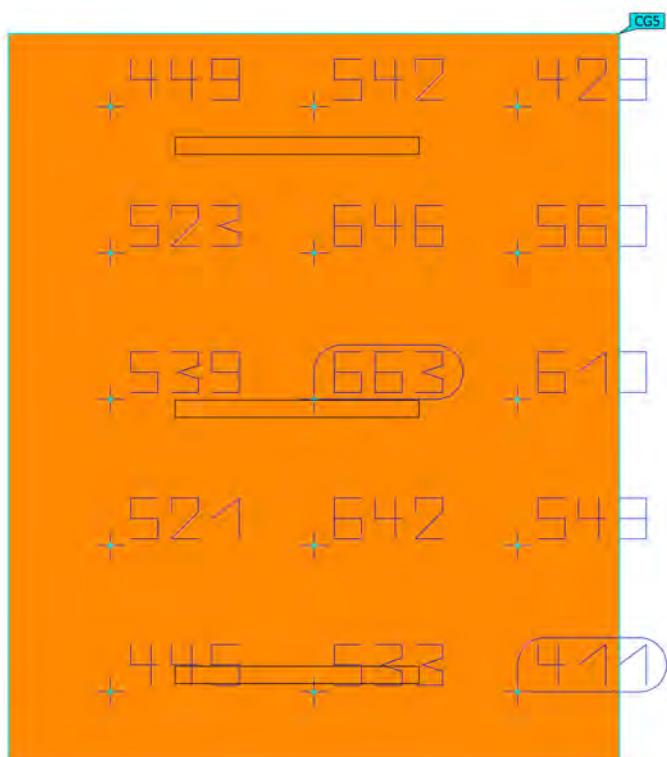
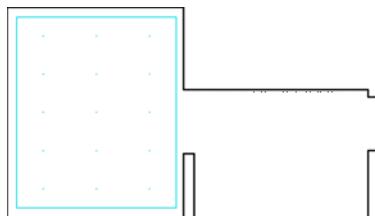
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
6	FRATER	WPCA-040	WEATHERPROOF CALIBER	–	39.5 W	4952 lm 125.4 lm/W

08-Service Area 03 · BDT-CCTV/ UPS (Light scene 1)

BDT- CCTV

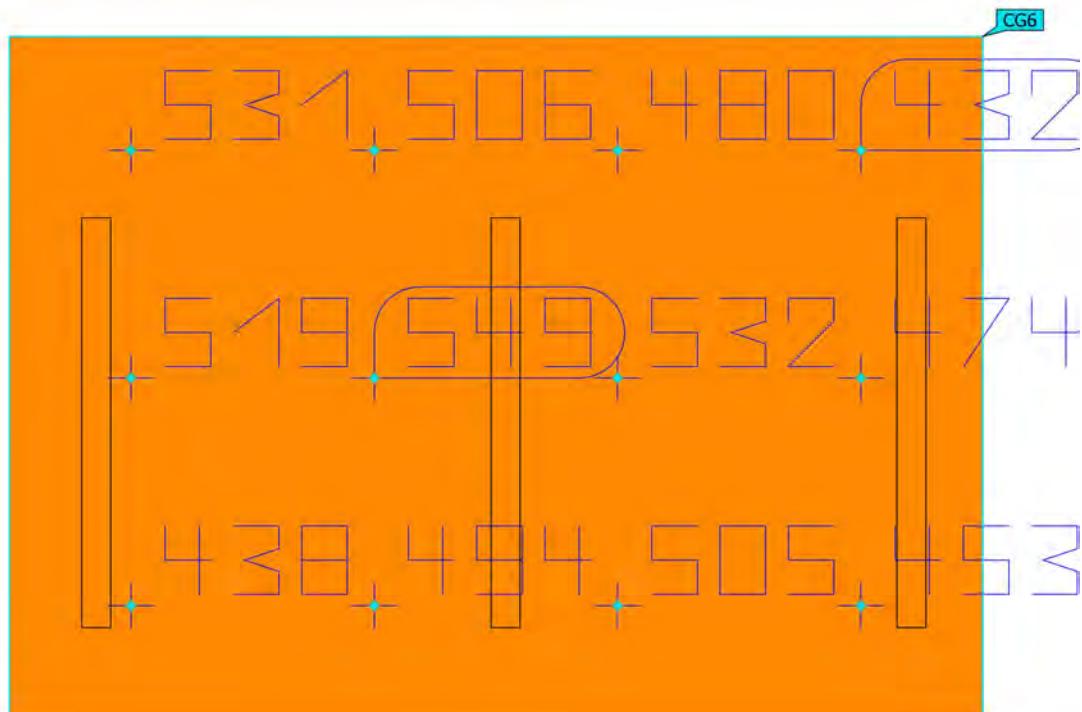
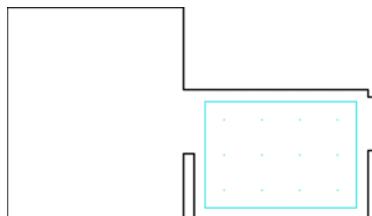



Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
BDT- CCTV Perpendicular illuminance Height: 0.800 m	537 lx	411 lx	663 lx	0.77	0.62

Utilisation profile: DIALux presetting (34.2 Standard (office))

08-Service Area 03 · BDT-CCTV/ UPS (Light scene 1)

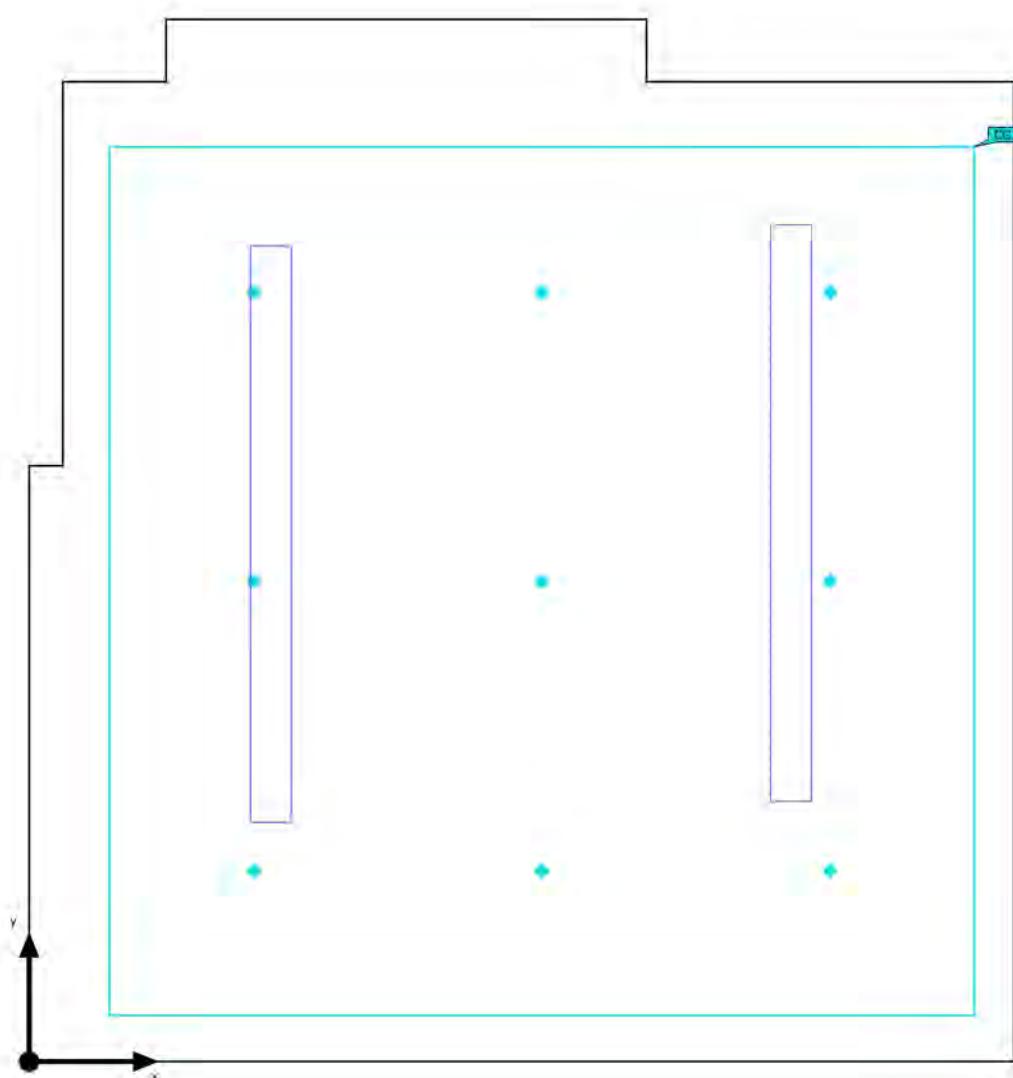
UPS



350 895 [lx]

Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
UPS Perpendicular illuminance Height: 0.000 m	493 lx	432 lx	549 lx	0.88	0.79

Utilisation profile: DIALux presetting (34.2 Standard (office))

08-Service Area 03 · Storey 1 · ELV (Light scene 1)
Summary

Ground area	4.26 m ²		
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Clearance height	3.000 m
Maintenance factor	0.80 (fixed)	Mounting height	3.000 m

08-Service Area 03 · Storey 1 · ELV (Light scene 1)
Summary

Results

Symbol	Calculated	Index
Energy estimation ⁽²⁾	Consumption	196 kWh/a

(1) Based on a rectangular space of 2.170 m x 2.050 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

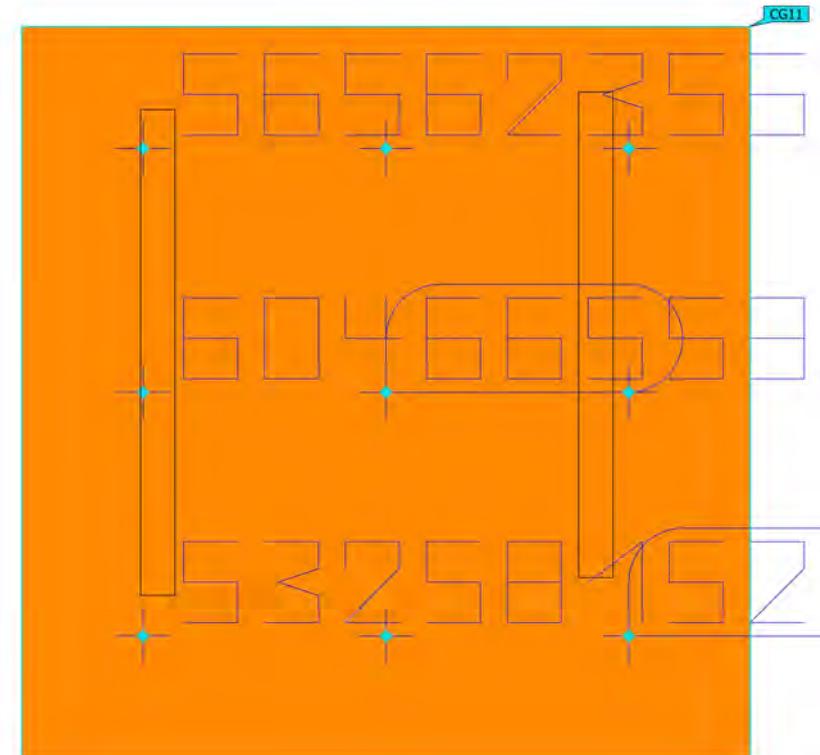
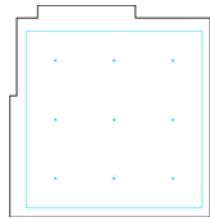
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
2	FRATER	WPCA-040	WEATHERPROOF CALIBER	–	39.5 W	4952 lm 125.4 lm/W

08-Service Area 03 · ELV (Light scene 1)

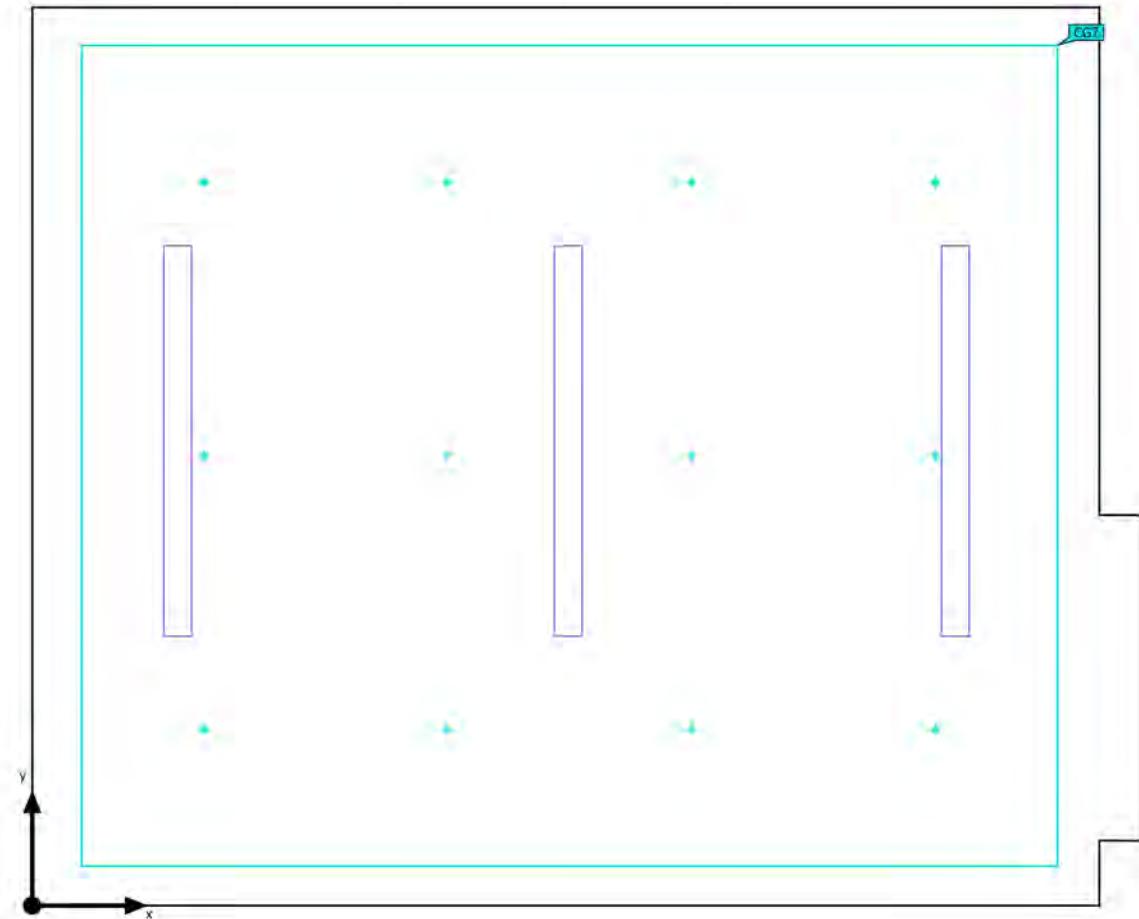
ELV



350 895 [lx]

Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
ELV Perpendicular illuminance Height: 0.800 m	583 lx	523 lx	665 lx	0.90	0.79

Utilisation profile: DIALux presetting (34.2 Standard (office))

08-Service Area 03 · Storey 1 · FTR-CCTV (Light scene 1)
Summary

Ground area	9.17 m ²		
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Clearance height	3.000 m
Maintenance factor	0.80 (fixed)	Mounting height	3.000 m

08-Service Area 03 · Storey 1 · FTR-CCTV (Light scene 1)

Summary

Results

Symbol	Calculated	Index
Energy estimation ⁽²⁾	Consumption	293 kWh/a

(1) Based on a rectangular space of 2.760 m x 3.405 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

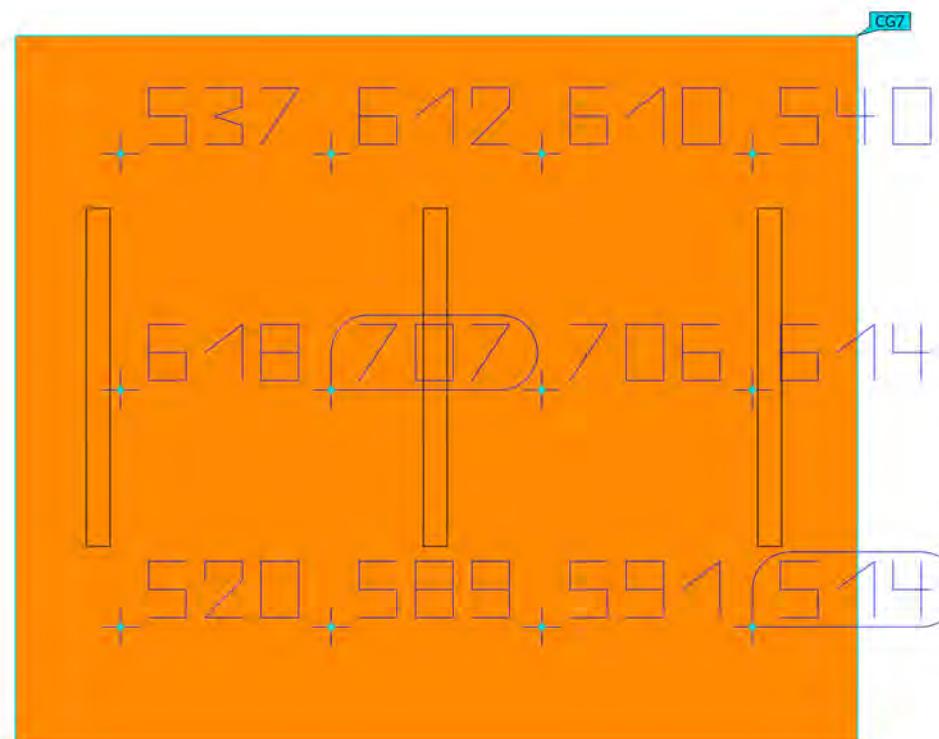
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
3	FRATER	WPCA-040	WEATHERPROOF CALIBER	–	39.5 W	4952 lm 125.4 lm/W

08-Service Area 03 · FTR-CCTV (Light scene 1)

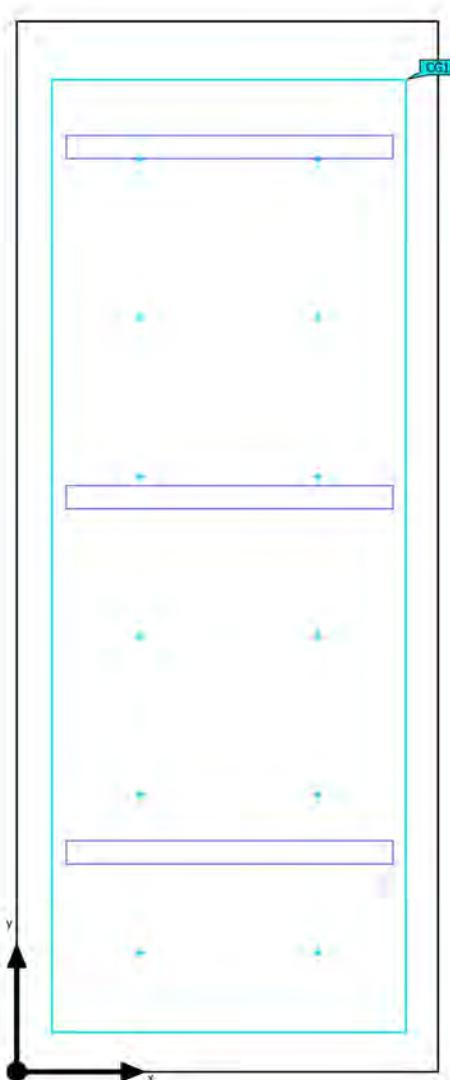
FTR CCTV



350 895 [lx]

Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
FTR CCTV Perpendicular illuminance Height: 0.800 m	596 lx	514 lx	707 lx	0.86	0.73

Utilisation profile: DIALux presetting (34.2 Standard (office))

08-Service Area 03 · Storey 1 · General Store (Light scene 1)
Summary

Ground area	5.97 m ²
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)
	Mounting height
	3.000 m

08-Service Area 03 · Storey 1 · General Store (Light scene 1) Summary

Results

Symbol	Calculated	Index
Energy estimation ⁽²⁾	Consumption	293 kWh/a

(1) Based on a rectangular space of 1.548 m x 3.860 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

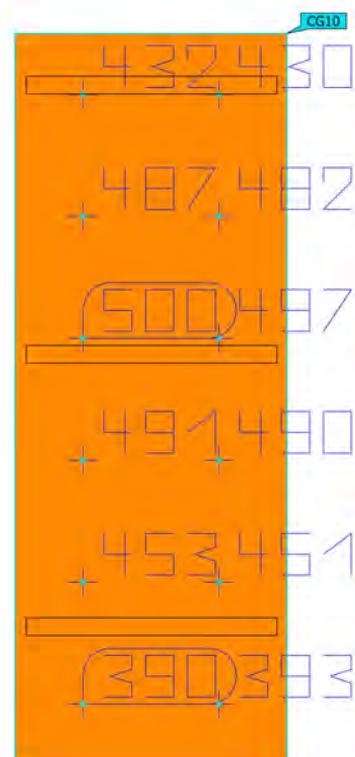
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
3	FRATER	WPCA-040	WEATHERPROOF CALIBER	–	39.5 W	4952 lm 125.4 lm/W

08-Service Area 03 · General Store (Light scene 1)

General Store

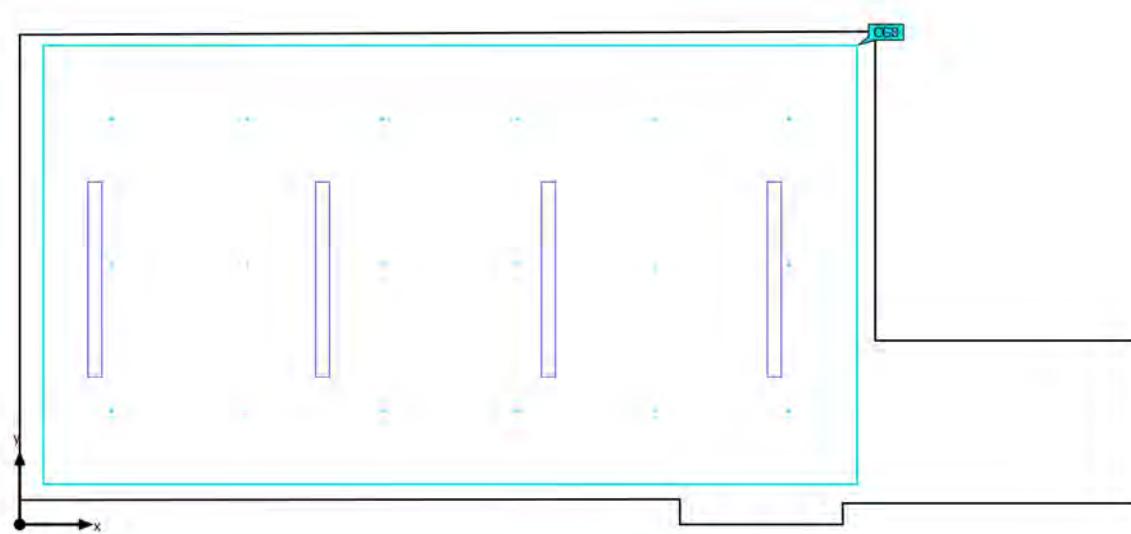


350

895 [lx]

Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
General Store	458 lx	390 lx	500 lx	0.85	0.78
Perpendicular illuminance					
Height: 0.000 m					CG10

Utilisation profile: DIALux presetting (34.2 Standard (office))

08-Service Area 03 · Storey 1 · Main Electrical Room (Light scene 1)
Summary

Ground area	16.83 m ²		
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Clearance height	3.000 m
Maintenance factor	0.80 (fixed)	Mounting height	3.000 m

08-Service Area 03 · Storey 1 · Main Electrical Room (Light scene 1) Summary

Results

	Symbol	Calculated	Index
Energy estimation ⁽²⁾	Consumption	391 kWh/a	

(1) Based on a rectangular space of 6.855 m x 3.030 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

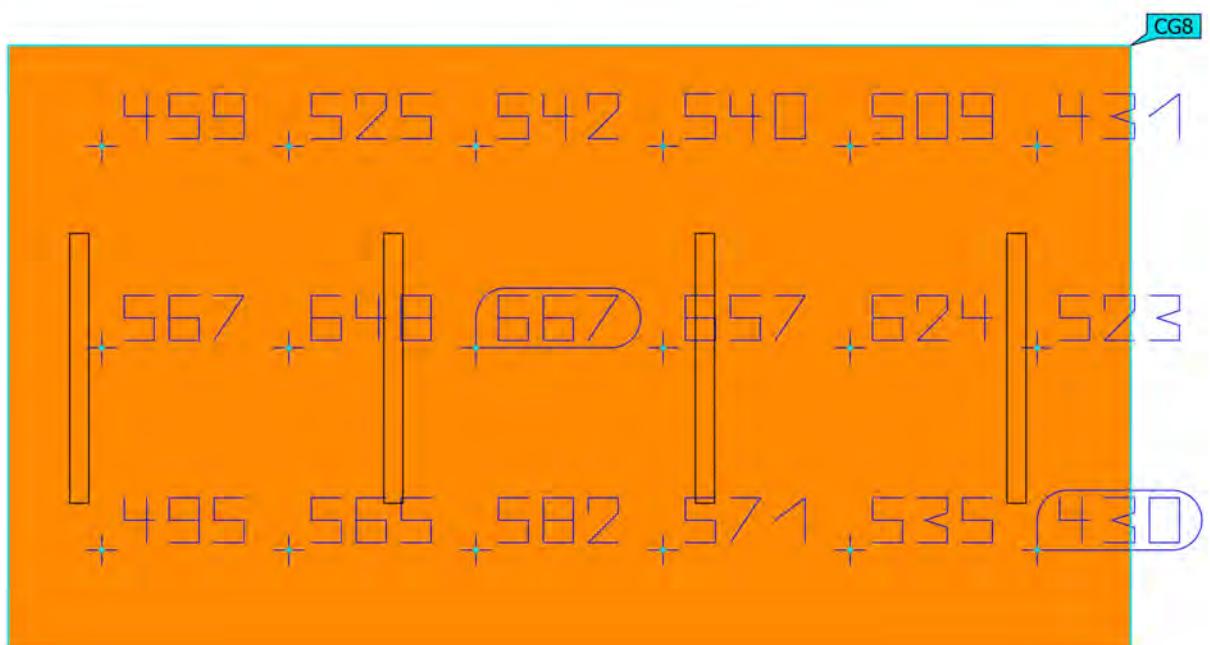
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
4	FRATER	WPCA-040	WEATHERPROOF CALIBER	–	39.5 W	4952 lm 125.4 lm/W

08-Service Area 03 · Main Electrical Room (Light scene 1)

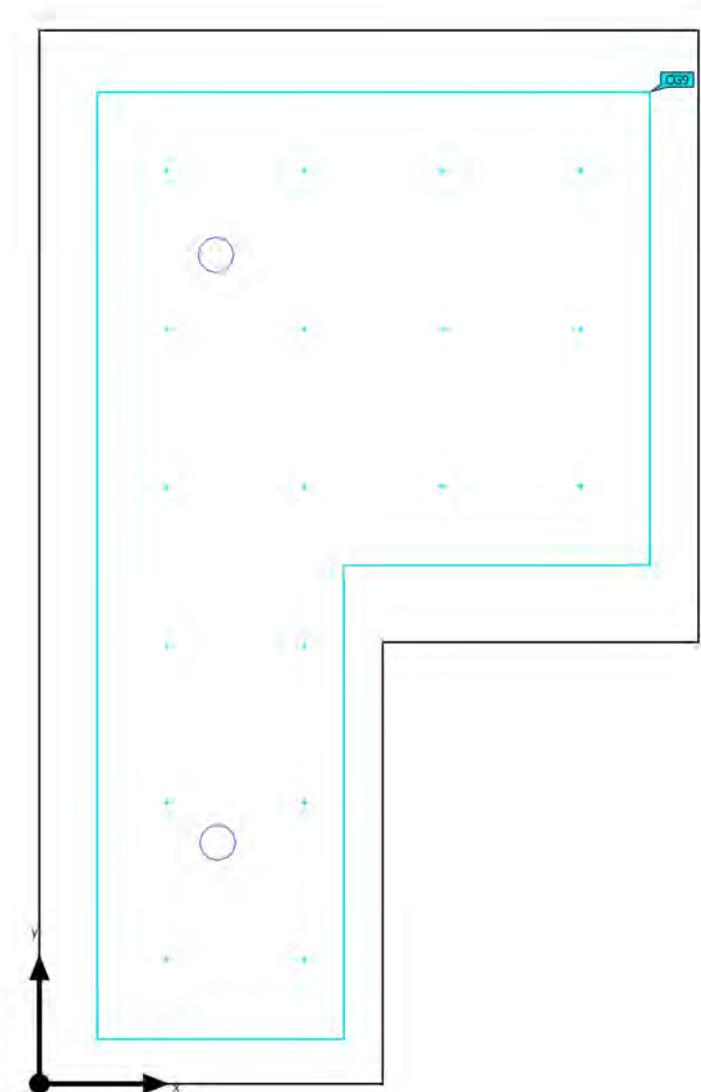
Main Electric Room



350 895 [lx]

Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Main Electric Room Perpendicular illuminance Height: 0.800 m	548 lx	430 lx	667 lx	0.78	0.64

Utilisation profile: DIALux presetting (34.2 Standard (office))

08-Service Area 03 · Storey 1 · Service Room Corridor (Light scene 1)
Summary

Ground area	14.25 m ²		
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Clearance height	2.800 m
Maintenance factor	0.80 (fixed)	Mounting height	2.800 m

08-Service Area 03 · Storey 1 · Service Room Corridor (Light scene 1) Summary

Results

	Symbol	Calculated	Index
Energy estimation ⁽²⁾	Consumption	84.2 kWh/a	

(1) Based on a rectangular space of 5.340 m x 3.340 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

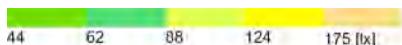
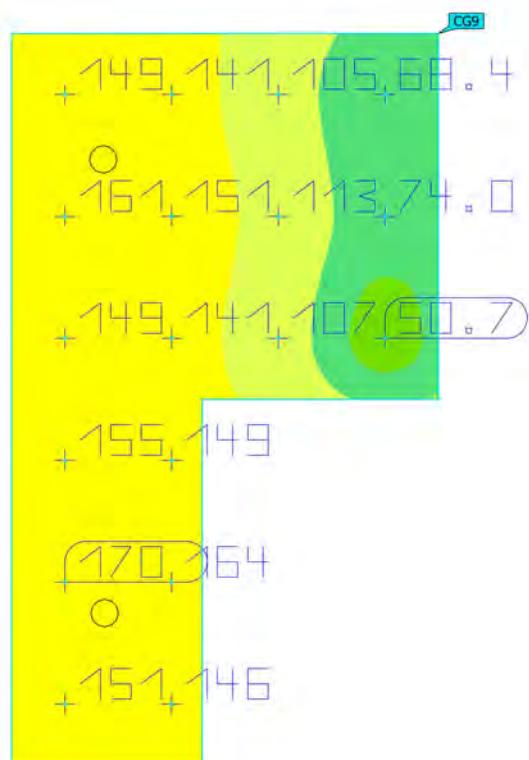
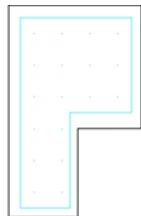
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
2	FRATER	DLS1-017	Down Light DLS1 17W 6500K	–	17.0 W	2040 lm 120.0 lm/W

08-Service Area 03 · Service Room Corridor (Light scene 1)

Service Room Corridor

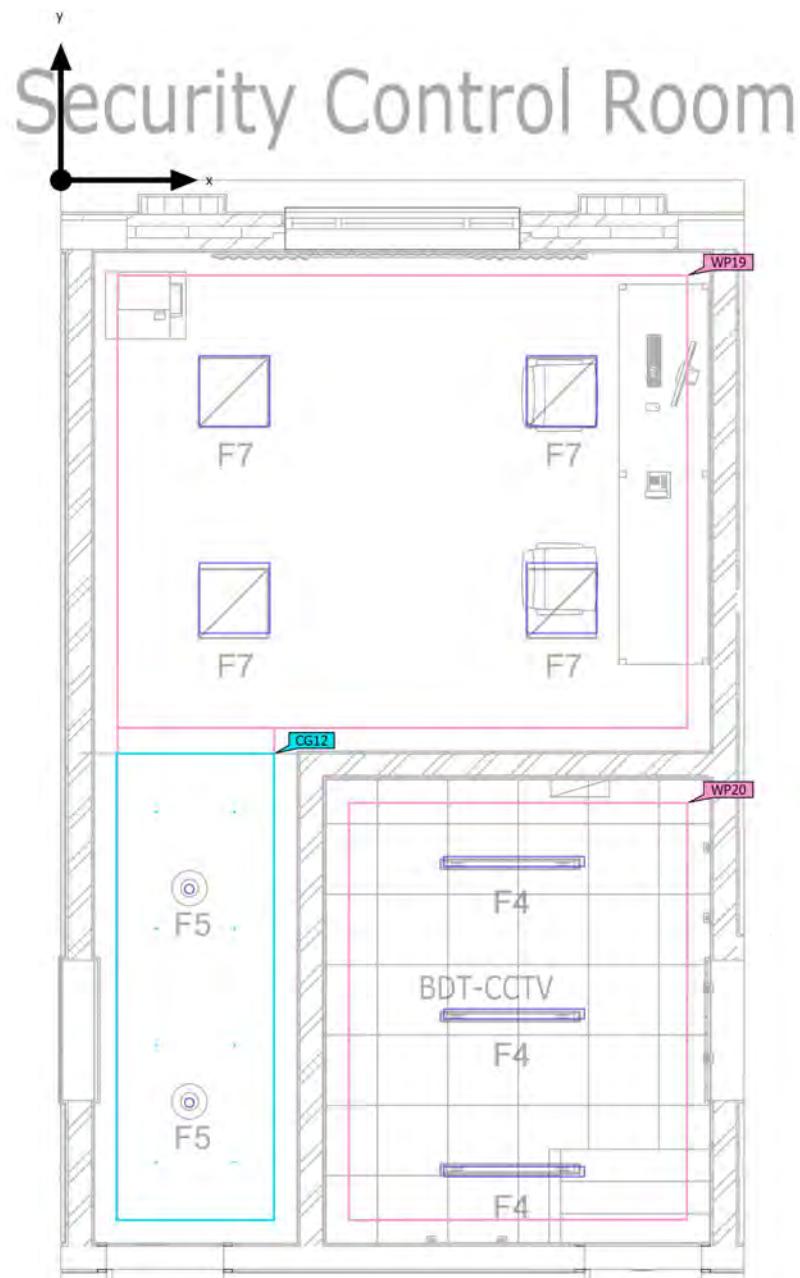


Properties	E _{min}	E _{max}	U _o (g ₁)	g ₂	Index
Service Room Corridor Perpendicular illuminance Height: 0.000 m	130 lx	50.7 lx	170 lx	0.39	0.30

Utilisation profile: DIALux presetting (34.2 Standard (office))

09-Security Contrl Room
Description

09-Security Contrl Room · Storey 1 (Light scene 1)
Calculation objects



09-Security Control Room · Storey 1 (Light scene 1)

Calculation objects

Working planes

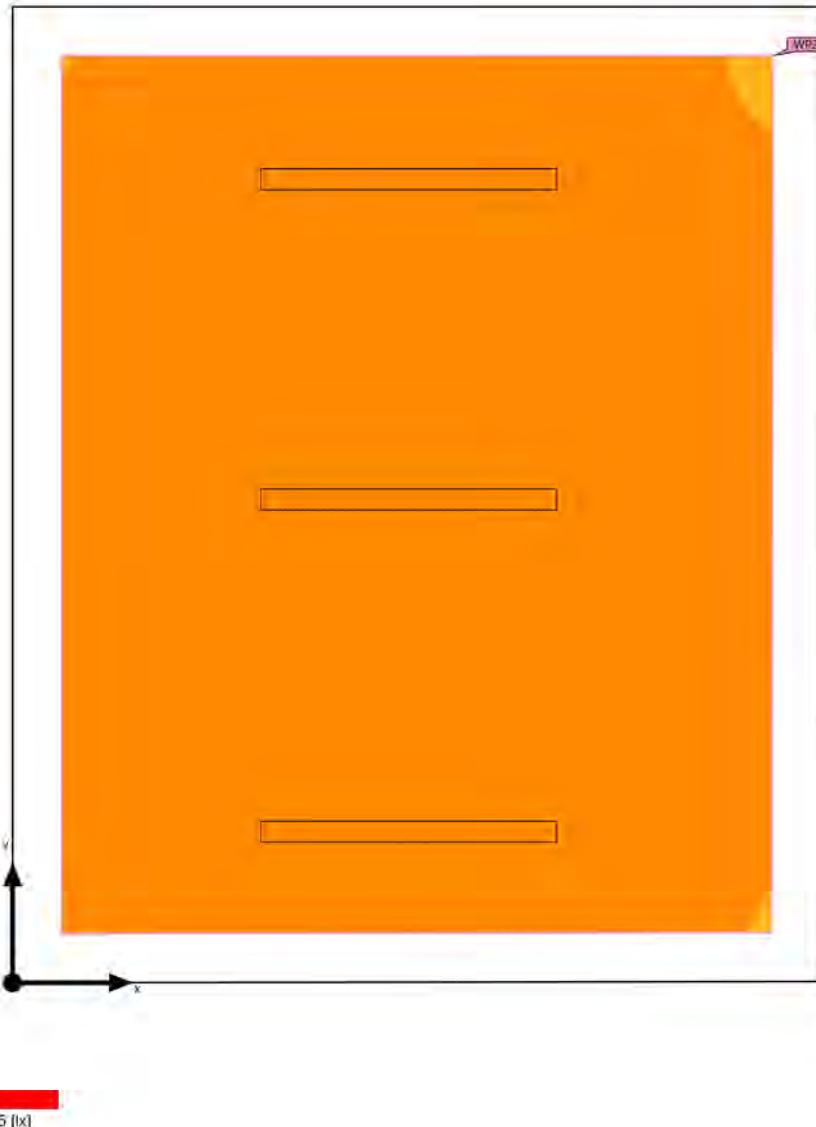
Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (BDT-CCTV) Perpendicular illuminance (adaptive) Height: 1.000 m, Wall zone: 0.200 m	528 lx	342 lx	675 lx	0.65	0.51
Working plane (Sub Security Control Room) Perpendicular illuminance (adaptive) Height: 1.000 m, Wall zone: 0.200 m	528 lx	293 lx	678 lx	0.55	0.43

Calculation surfaces

Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Passage Perpendicular illuminance Height: 0.000 m	256 lx	191 lx	303 lx	0.75	0.63

09-Security Contrl Room · BDT-CCTV (Light scene 1)

Summary



Ground area	12.99 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.000 m
Maintenance factor	0.80 (fixed)	Height Working plane	1.000 m
		Wall zone Working plane	0.200 m

09-Security Control Room · BDT-CCTV (Light scene 1) Summary

Results

	Symbol	Calculated	Index
Working plane	perpendicular	528 lx	WP20
	$U_o (g_1)$	0.65	WP20
	Lighting power density	11.56 W/m ²	
		2.19 W/m ² /100 lx	
Energy estimation ⁽²⁾	Consumption	293 kWh/a	
Space	Lighting power density	9.12 W/m ²	
		1.73 W/m ² /100 lx	

(2) Calculated using DIN:18599-4.

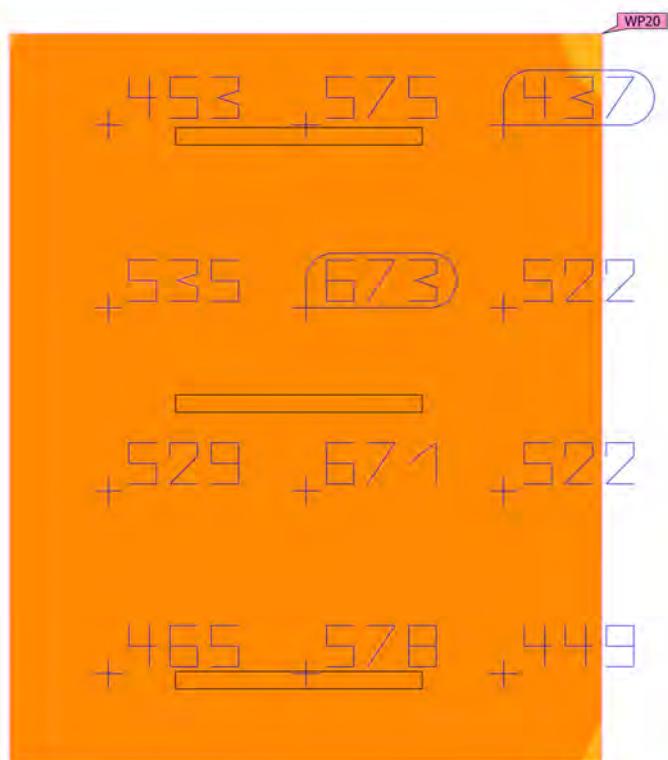
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Luminous efficacy
3	FRATER	WPCA-040	WEATHERPROOF CALIBER	39.5 W	4952 lm

09-Security Contrl Room · BDT-CCTV (Light scene 1)

Working plane (BDT-CCTV)

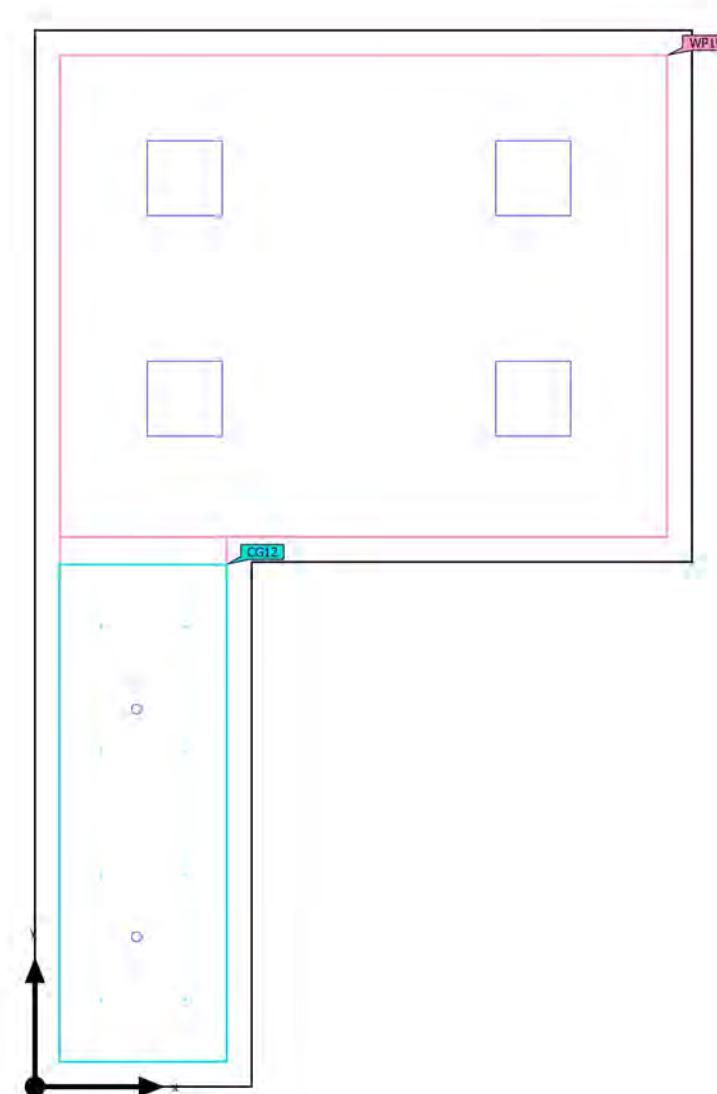


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Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (BDT-CCTV)	528 lx	342 lx	675 lx	0.65	0.51
Perpendicular illuminance (adaptive)					
Height: 1.000 m, Wall zone: 0.200 m					WP20

Utilisation profile: DIALux presetting (34.2 Standard (office))

09-Security Contrl Room · Storey 1 · Sub Security Control Room (Light scene 1)
Summary



Ground area	29.69 m ²	Clearance height	2.800 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	2.800 m
Maintenance factor	0.80 (fixed)	Height Working plane	1.000 m
		Wall zone Working plane	0.200 m

09-Security Control Room · Storey 1 · Sub Security Control Room (Light scene 1) Summary

Results

	Symbol	Calculated	Index
Working plane	perpendicular	528 lx	WP19
	U _o (g ₁)	0.55	WP19
Energy estimation ⁽²⁾	Consumption	530 kWh/a	

(1) Based on a rectangular space of 8.460 m x 5.260 m and SHR of 0.25.

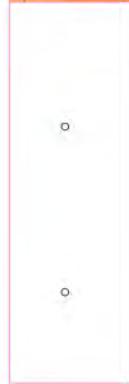
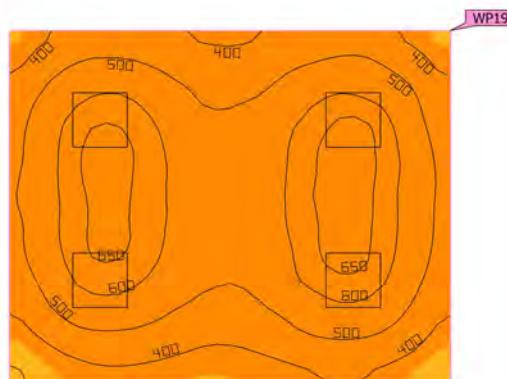
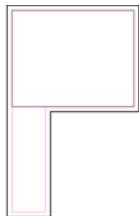
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy	
4	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	–	48.0 W	4800 lm	100.0 lm/W
2	FRATER	DLG5-010	COB Down Light Gemini 05	–	11.0 W	1066 lm	96.9 lm/W

09-Security Contrl Room · Storey 1 · Sub Security Control Room (Light scene 1)
 Working plane (Sub Security Control Room)

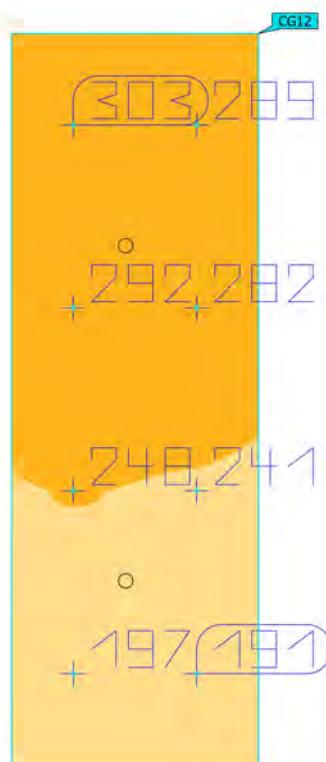
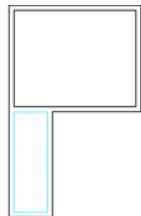


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Properties		E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Sub Security Control Room) Perpendicular illuminance (adaptive) Height: 1.000 m, Wall zone: 0.200 m		528 lx	293 lx	678 lx	0.55	0.43

Utilisation profile: DIALux presetting (34.2 Standard (office))

09-Security Contrl Room · Sub Security Control Room (Light scene 1)
 Passage

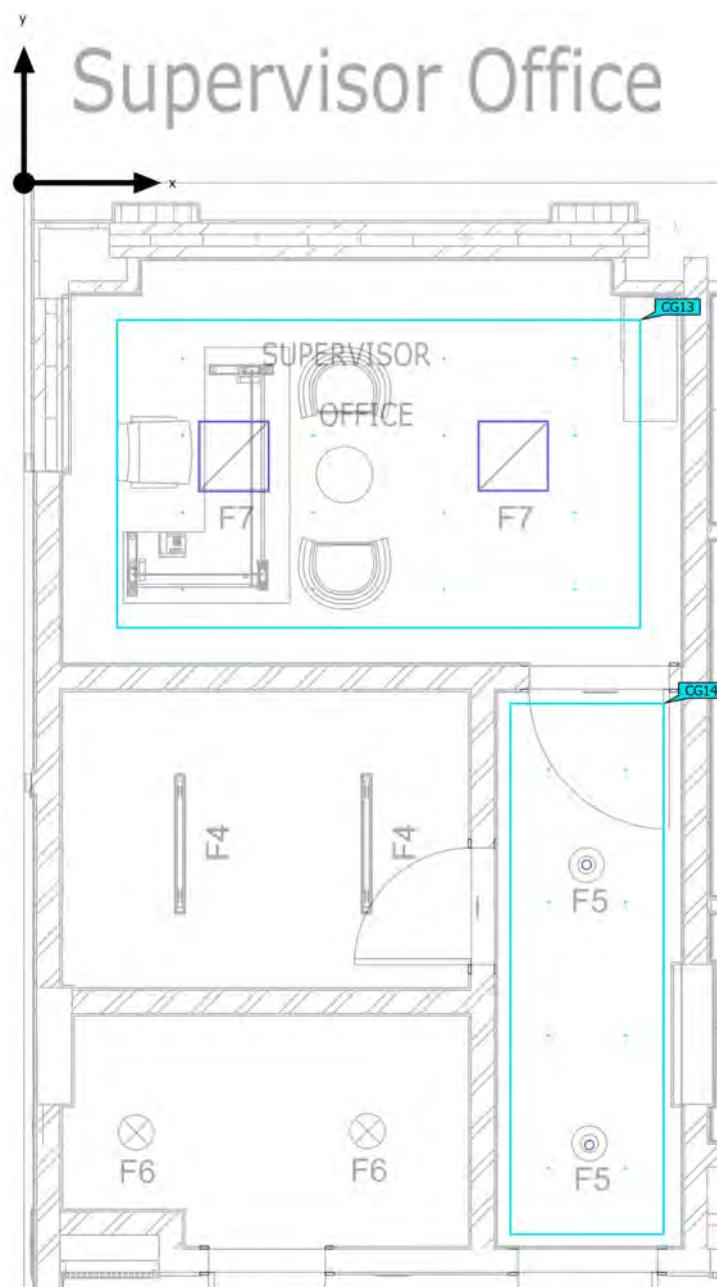


Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Passage Perpendicular illuminance Height: 0.000 m	256 lx	191 lx	303 lx	0.75	0.63

Utilisation profile: DIALux presetting (34.2 Standard (office))

10- Supervisor Office
Description

10- Supervisor Office (Light scene 1)
Calculation objects



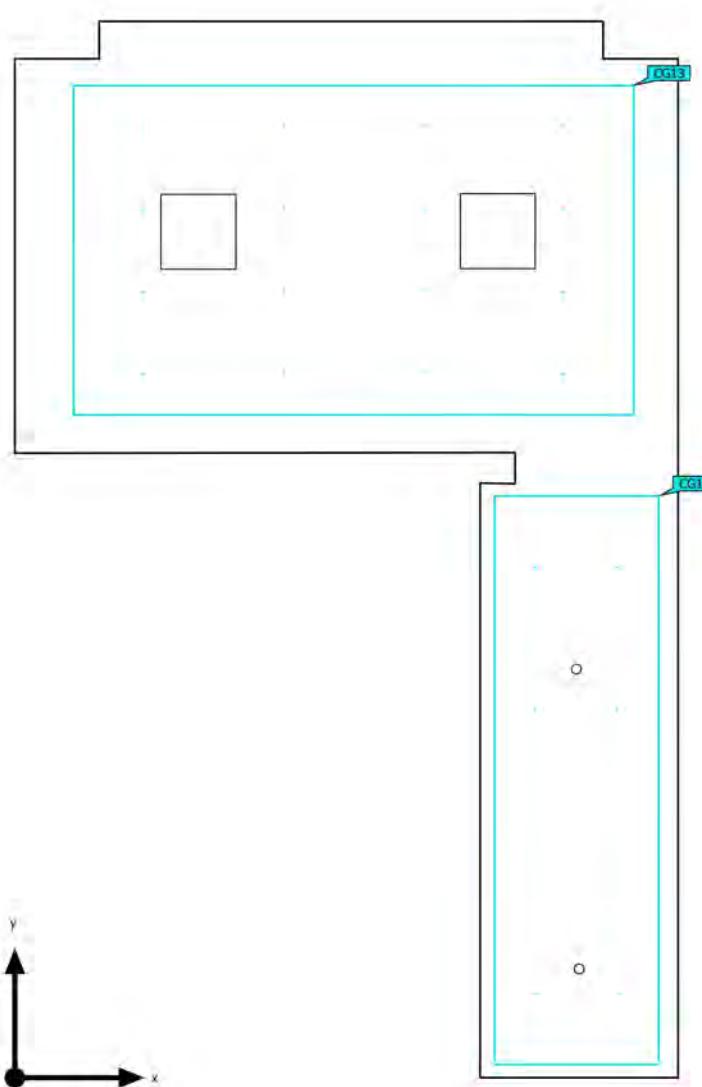
10- Supervisor Office (Light scene 1)

Calculation objects

Calculation surfaces

Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Passage Perpendicular illuminance Height: 0.000 m	182 lx	149 lx	214 lx	0.82	0.70
Supervisor Office Perpendicular illuminance Height: 1.000 m	367 lx	249 lx	464 lx	0.68	0.54

10- Supervisor Office · Supervisor Office (Light scene 1)
Summary



Ground area	25.84 m ²		
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Clearance height	2.800 m
Maintenance factor	0.80 (fixed)	Mounting height	2.800 m

10- Supervisor Office · Supervisor Office (Light scene 1)

Summary

Results

	Symbol	Calculated	Index
Energy estimation ⁽²⁾	Consumption	292 kWh/a	
Space	Lighting power density	4.57 W/m ²	

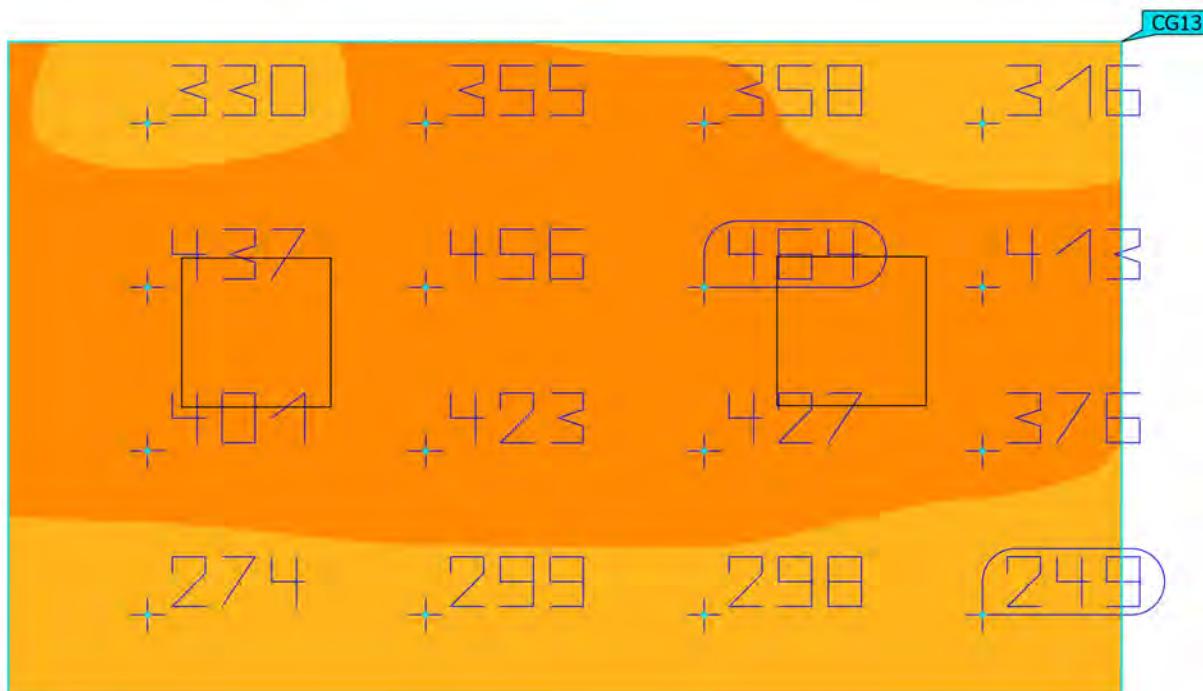
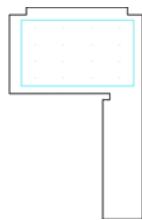
(2) Calculated using DIN:18599-4.

Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Luminous efficacy	
2	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	48.0 W	4800 lm	100.0 lm/W
2	FRATER	DLG5-010	COB Down Light Gemini 05	11.0 W	1066 lm	96.9 lm/W

10- Supervisor Office · Supervisor Office (Light scene 1)
Supervisor Office

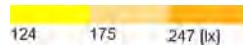
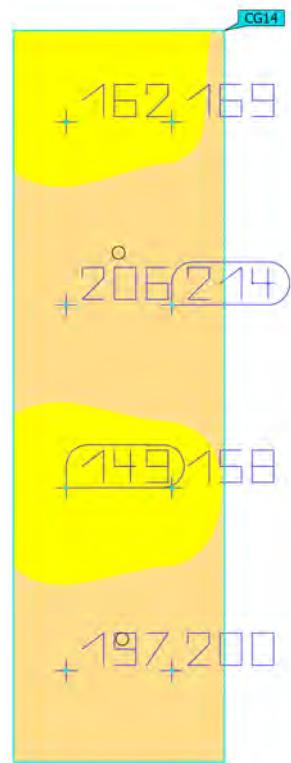
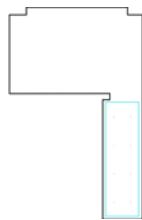


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Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Supervisor Office Perpendicular illuminance Height: 1.000 m	367 lx	249 lx	464 lx	0.68	0.54

Utilisation profile: DIALux presetting (34.2 Standard (office))

10- Supervisor Office · Supervisor Office (Light scene 1)
 Passage



Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Passage Perpendicular illuminance Height: 0.000 m	182 lx	149 lx	214 lx	0.82	0.70

Utilisation profile: DIALux presetting (34.2 Standard (office))