

Date

2/5/2026



B02-NCO Accommodation

Lux Level Calculation Report

Table of Contents

Cover	1
Table of Contents	2

Building B02

Description	10
-------------------	----

Building B02

01- Typical Bedroom

Description	11
-------------------	----

Building B02 - 01- Typical Bedroom

Storey 1

Calculation objects / Light scene 1	12
---	----

Building B02 - 01- Typical Bedroom - Storey 1

Bedroom

Summary / Light scene 1	14
Calculation surface 1 / Light scene 1 / Perpendicular illuminance	16

Building B02

02-Entrance/ Reception

Description	17
-------------------	----

Building B02 - 02-Entrance/ Reception

Storey 1

Calculation objects / Light scene 1	18
---	----

Building B02 - 02-Entrance/ Reception - Storey 1

Airlock

Summary / Light scene 1	20
Calculation surface 5 / Light scene 1 / Perpendicular illuminance	22

Table of Contents

Building B02 - 02-Entrance/ Reception - Storey 1

Reception

Summary / Light scene 1	23
Calculation surface 6 / Light scene 1 / Perpendicular illuminance	25

Building B02

03-Main Corridor

Description	26
-------------------	----

Building B02 - 03-Main Corridor

Storey 1

Calculation objects / Light scene 1	27
---	----

Building B02 - 03-Main Corridor - Storey 1

Main Corridor

Summary / Light scene 1	29
Calculation surface 2 / Light scene 1 / Perpendicular illuminance	31

Building B02

04-Toilet Area 01

Description	32
-------------------	----

Building B02 - 04-Toilet Area 01

Storey 1

Calculation objects / Light scene 1	33
---	----

Building B02 - 04-Toilet Area 01 - Storey 1

Lockers

Summary / Light scene 1	35
Working plane (Lockers) / Light scene 1 / Perpendicular illuminance (adaptive)	37

Table of Contents

Building B02 - 04-Toilet Area 01 - Storey 1

Shower

Summary / Light scene 1	38
Working plane (Shower) / Light scene 1 / Perpendicular illuminance (adaptive)	40

Building B02 - 04-Toilet Area 01 - Storey 1

Toilet-POD

Summary / Light scene 1	41
Working plane (Toilet-POD) / Light scene 1 / Perpendicular illuminance (adaptive)	43

Building B02 - 04-Toilet Area 01 - Storey 1

Toilets

Summary / Light scene 1	44
Working plane (Toilets) / Light scene 1 / Perpendicular illuminance (adaptive)	46

Building B02 - 04-Toilet Area 01 - Storey 1

Wash Area

Summary / Light scene 1	47
Working plane (Wash Area) / Light scene 1 / Perpendicular illuminance (adaptive)	49

Building B02

05-Toilet Area

Description	50
-------------------	----

Building B02 - 05-Toilet Area

Storey 1

Calculation objects / Light scene 1	51
---	----

Building B02 - 05-Toilet Area - Storey 1

Lockers

Summary / Light scene 1	53
-------------------------------	----

Table of Contents

Working plane (Lockers) / Light scene 1 / Perpendicular illuminance (adaptive) 55

Building B02 - 05-Toilet Area - Storey 1

Showers

Summary / Light scene 1 56

Working plane (Showers) / Light scene 1 / Perpendicular illuminance (adaptive) 58

Building B02 - 05-Toilet Area - Storey 1

Toilet

Summary / Light scene 1 59

Working plane (Toilet) / Light scene 1 / Perpendicular illuminance (adaptive) 61

Building B02 - 05-Toilet Area - Storey 1

Toilet-POD

Summary / Light scene 1 62

Working plane (Toilet-POD) / Light scene 1 / Perpendicular illuminance (adaptive) 64

Building B02 - 05-Toilet Area - Storey 1

Wash Area

Summary / Light scene 1 65

Working plane (Wash Area) / Light scene 1 / Perpendicular illuminance (adaptive) 67

Building B02

06-Service Area 01

Description 68

Building B02 - 06-Service Area 01

Storey 1

Calculation objects / Light scene 1 69

Table of Contents

Building B02 - 06-Service Area 01 - Storey 1

BDT-V/D

Summary / Light scene 1	71
Working plane (BDT-V/D) / Light scene 1 / Perpendicular illuminance (adaptive)	73

Building B02 - 06-Service Area 01 - Storey 1

FTR-V/D

Summary / Light scene 1	74
Working plane (FTR-V/D) / Light scene 1 / Perpendicular illuminance (adaptive)	76

Building B02 - 06-Service Area 01 - Storey 1

Service Rooms Corridor

Summary / Light scene 1	77
Working plane (Service Rooms Corridor) / Light scene 1 / Perpendicular illuminance (adaptive)	79

Building B02 - 06-Service Area 01 - Storey 1

Store

Summary / Light scene 1	80
Working plane (Store) / Light scene 1 / Perpendicular illuminance (adaptive)	82

Building B02

07- Service Area 02

Description	83
-------------------	----

Building B02 - 07- Service Area 02

Storey 1

Calculation objects / Light scene 1	84
---	----

Building B02 - 07- Service Area 02 - Storey 1

Dirty Laundry

Summary / Light scene 1	86
-------------------------------	----

Table of Contents

Working plane (Dirty Laundry) / Light scene 1 / Perpendicular illuminance 88
 (adaptive)

Building B02 - 07- Service Area 02 - Storey 1

Linen Room

Summary / Light scene 1 89
 Working plane (Linen Room) / Light scene 1 / Perpendicular illuminance 91
 (adaptive)

Building B02 - 07- Service Area 02 - Storey 1

Service Rooms Corridor

Summary / Light scene 1 92
 Working plane (Service Rooms Corridor) / Light scene 1 / Perpendicular illuminance 94
 (adaptive)

Building B02 - 07- Service Area 02 - Storey 1

Waste Collection

Summary / Light scene 1 95
 Working plane (Waste Collection) / Light scene 1 / Perpendicular illuminance 97
 (adaptive)

Building B02

08-Service Area 03

Description 98

Building B02 - 08-Service Area 03

Storey 1

Calculation objects / Light scene 1 99

Building B02 - 08-Service Area 03 - Storey 1

BDT-CCTV/ UPS

Summary / Light scene 1 101
 BDT- CCTV / Light scene 1 / Perpendicular illuminance 103

Table of Contents

UPS / Light scene 1 / Perpendicular illuminance 104

Building B02 - 08-Service Area 03 - Storey 1

ELV

Summary / Light scene 1 105

ELV / Light scene 1 / Perpendicular illuminance 107

Building B02 - 08-Service Area 03 - Storey 1

FTR-CCTV

Summary / Light scene 1 108

FTR CCTV / Light scene 1 / Perpendicular illuminance 110

Building B02 - 08-Service Area 03 - Storey 1

General Store

Summary / Light scene 1 111

General Store / Light scene 1 / Perpendicular illuminance 113

Building B02 - 08-Service Area 03 - Storey 1

Main Electrical Room

Summary / Light scene 1 114

Main Electric Room / Light scene 1 / Perpendicular illuminance 116

Building B02 - 08-Service Area 03 - Storey 1

Service Room Corridor

Summary / Light scene 1 117

Service Room Corridor / Light scene 1 / Perpendicular illuminance 119

Building B02

09-Security Control Room

Description 120

Table of Contents

Building B02 - 09-Security Contrl Room

Storey 1

Calculation objects / Light scene 1	121
---	-----

Building B02 - 09-Security Contrl Room - Storey 1

BDT-CCTV

Summary / Light scene 1	123
Working plane (BDT-CCTV) / Light scene 1 / Perpendicular illuminance (adaptive)	125

Building B02 - 09-Security Contrl Room - Storey 1

Sub Security Control Room

Summary / Light scene 1	126
Working plane (Sub Security Control Room) / Light scene 1 / Perpendicular illuminance (adaptive)	128
Passage / Light scene 1 / Perpendicular illuminance	129

Building B02

10- Supervisor Office

Description	130
-------------------	-----

Building B02 - 10- Supervisor Office

Storey 1

Calculation objects / Light scene 1	131
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Building B02 - 10- Supervisor Office - Storey 1

Supervisor Office

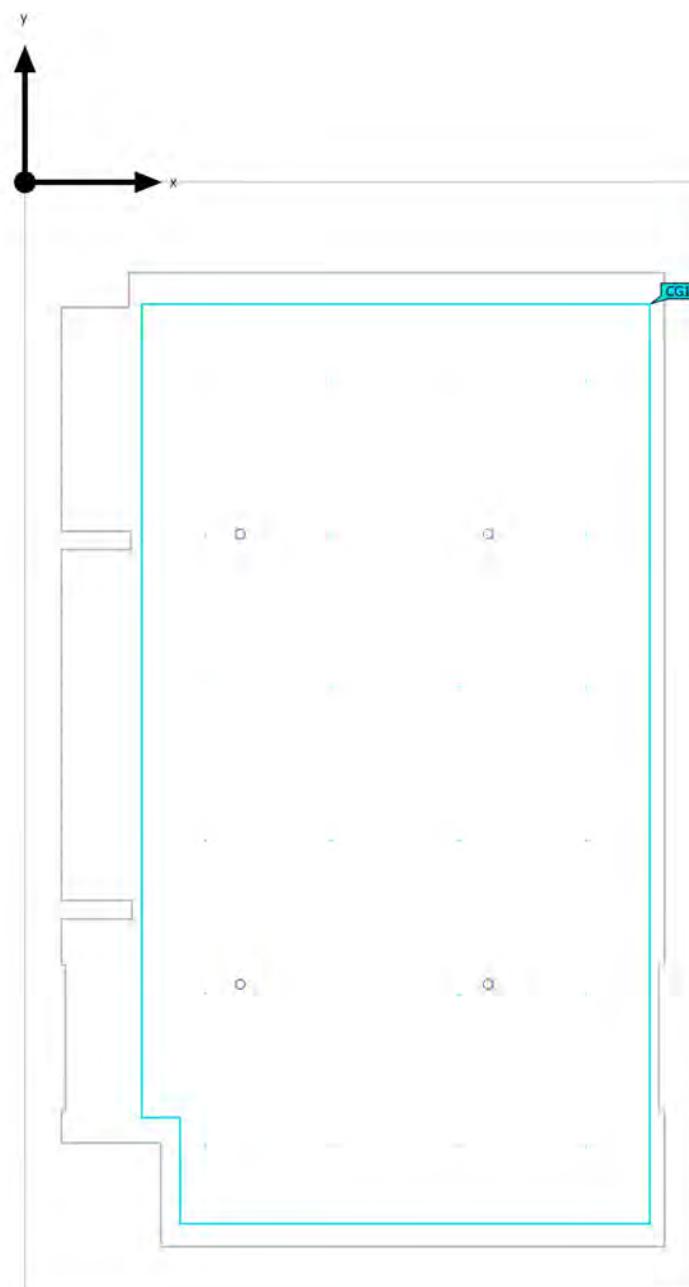
Summary / Light scene 1	133
Supervisor Office / Light scene 1 / Perpendicular illuminance	135
Passage / Light scene 1 / Perpendicular illuminance	136

Building B02
Description

01- Typical Bedroom Description

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

Calculation objects



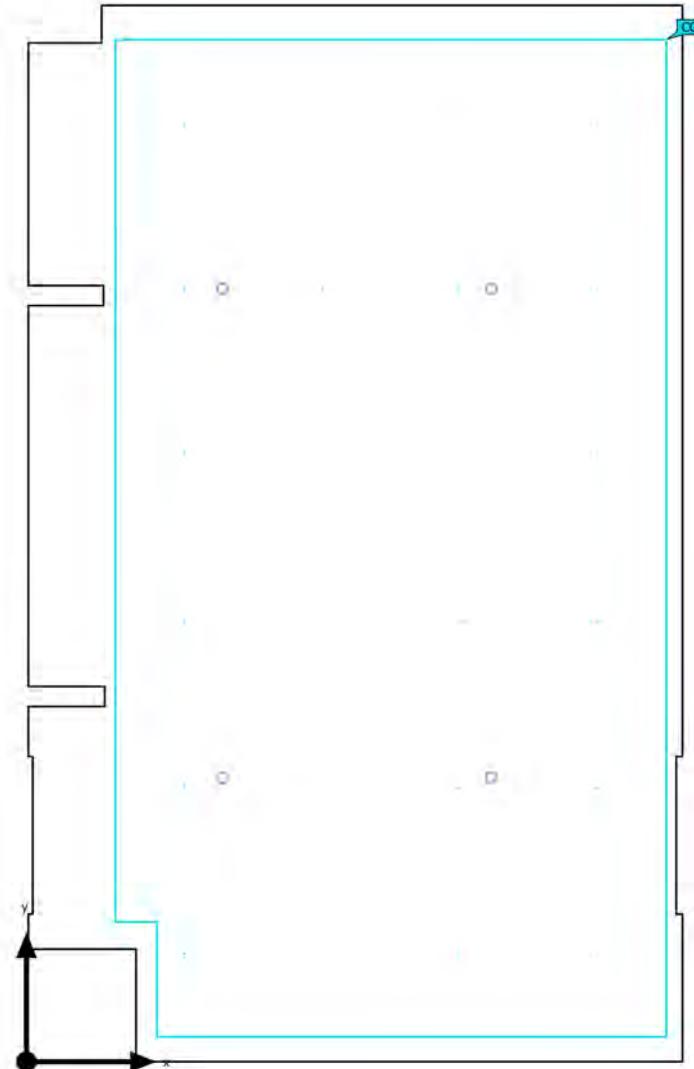
01- Typical Bedroom · Storey 1 (Light scene 1)

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.

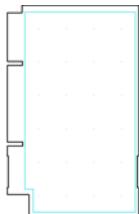
Utilisation profile: DIALux presetting (34.2 Standard (office))

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

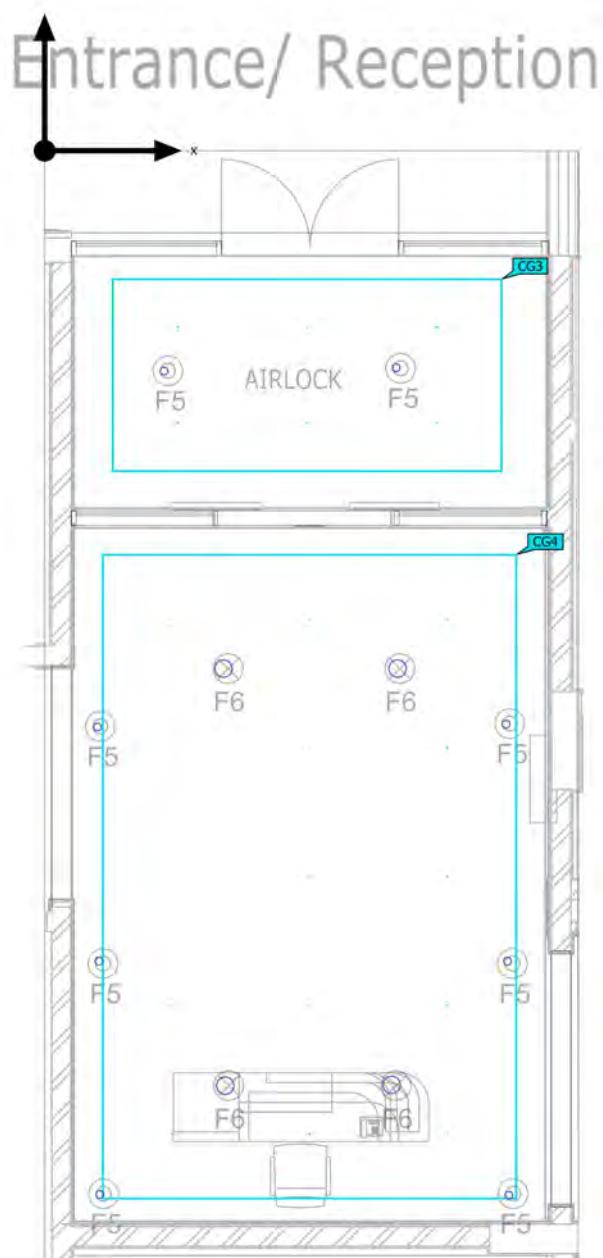


Properties		E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Calculation surface 1		167 lx	79.7 lx	314 lx	0.48	0.25
Perpendicular illuminance						CG1
Height: 0.000 m						

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

02-Entrance/ Reception
Description

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

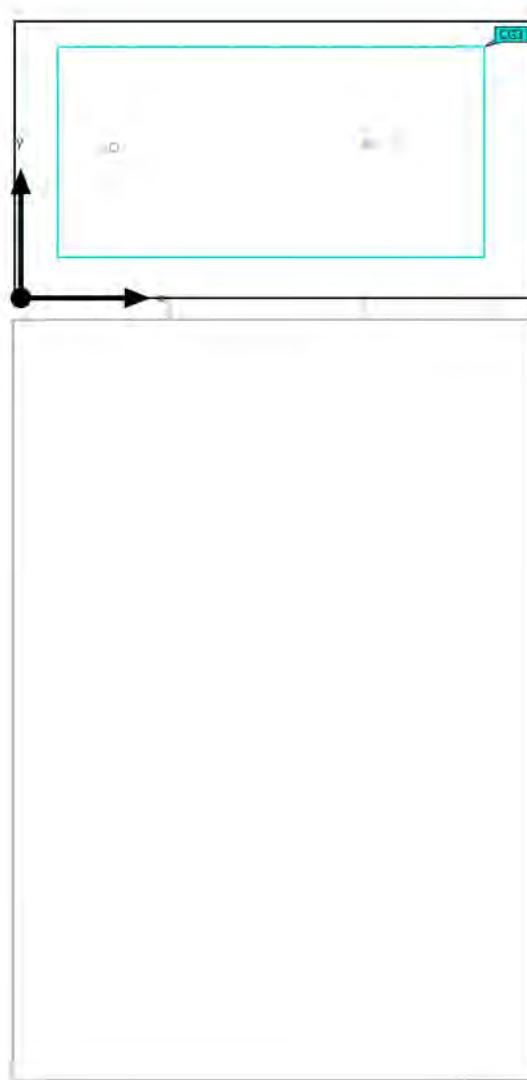


02-Entrance/ Reception · Storey 1 (Light scene 1)

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)

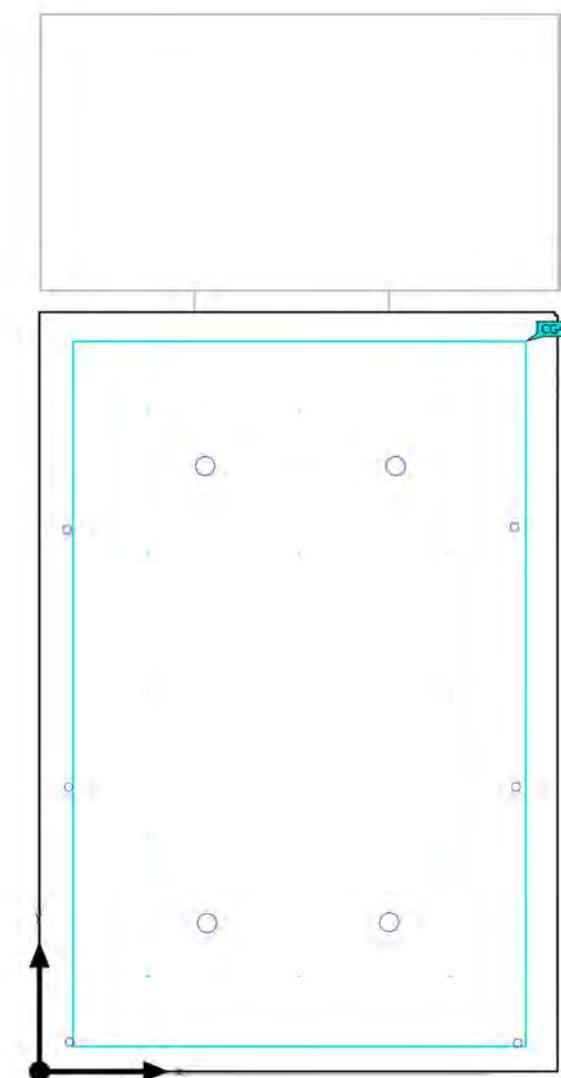
Calculation surface 5



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.

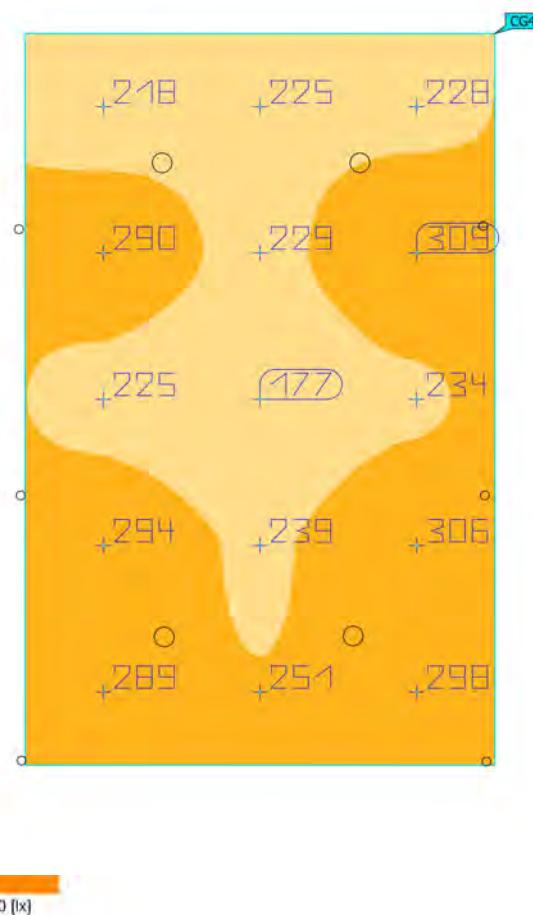
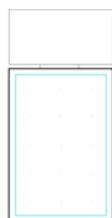
Utilisation profile: DIALux presetting (34.2 Standard (office))

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.

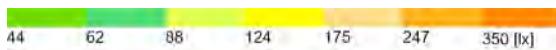
Utilisation profile: DIALux presetting (34.2 Standard (office))

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

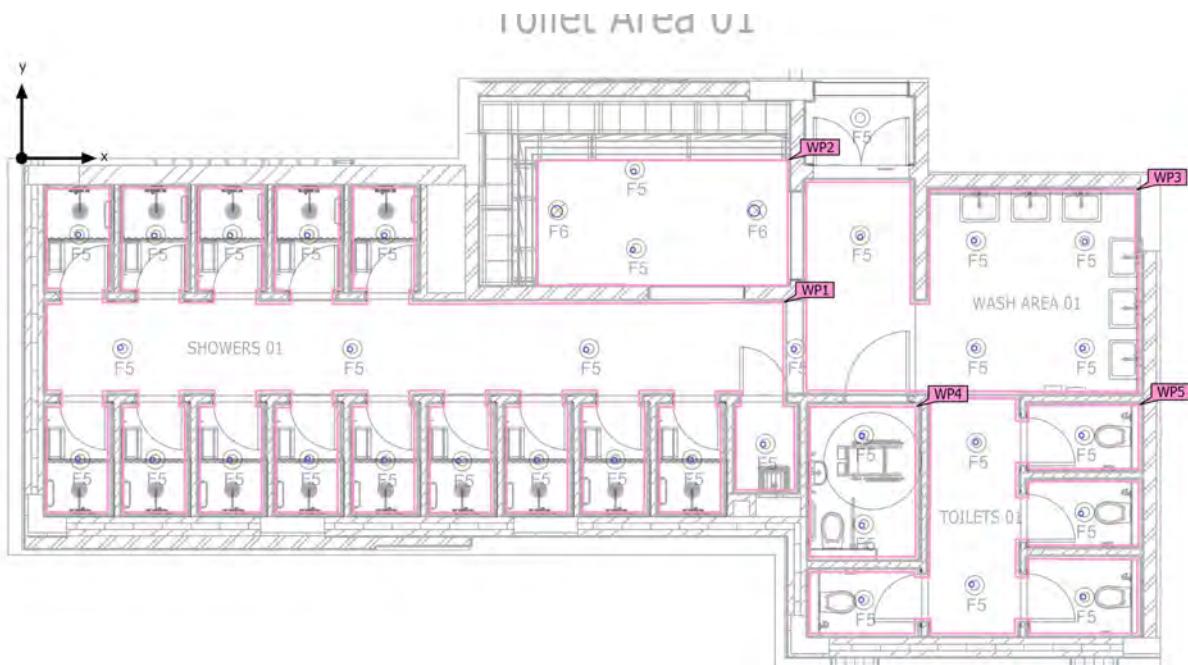


Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Calculation surface 2 Perpendicular illuminance Height: 0.000 m	157 lx	55.3 lx	311 lx	0.35	0.18

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)

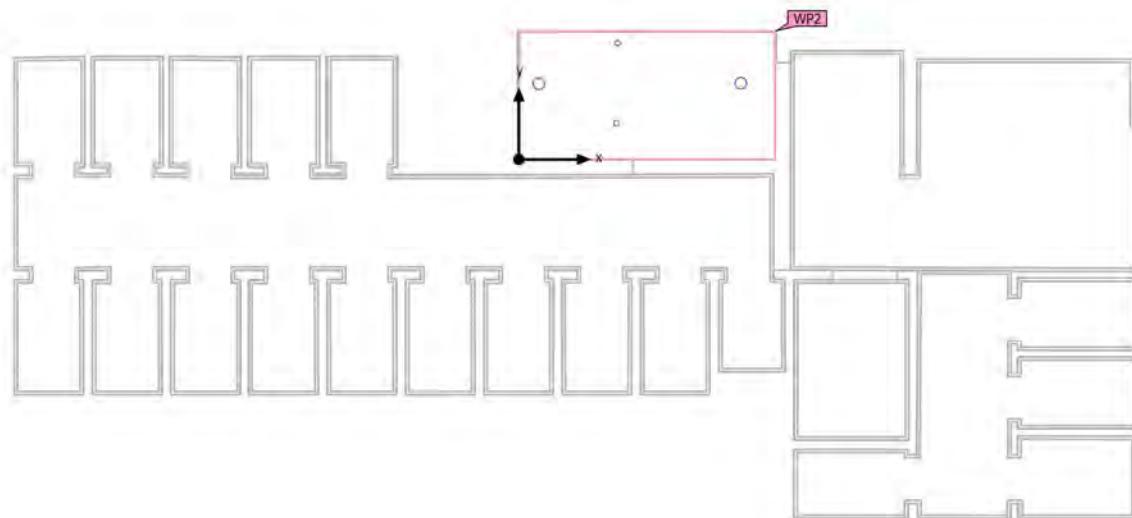
Calculation objects

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.

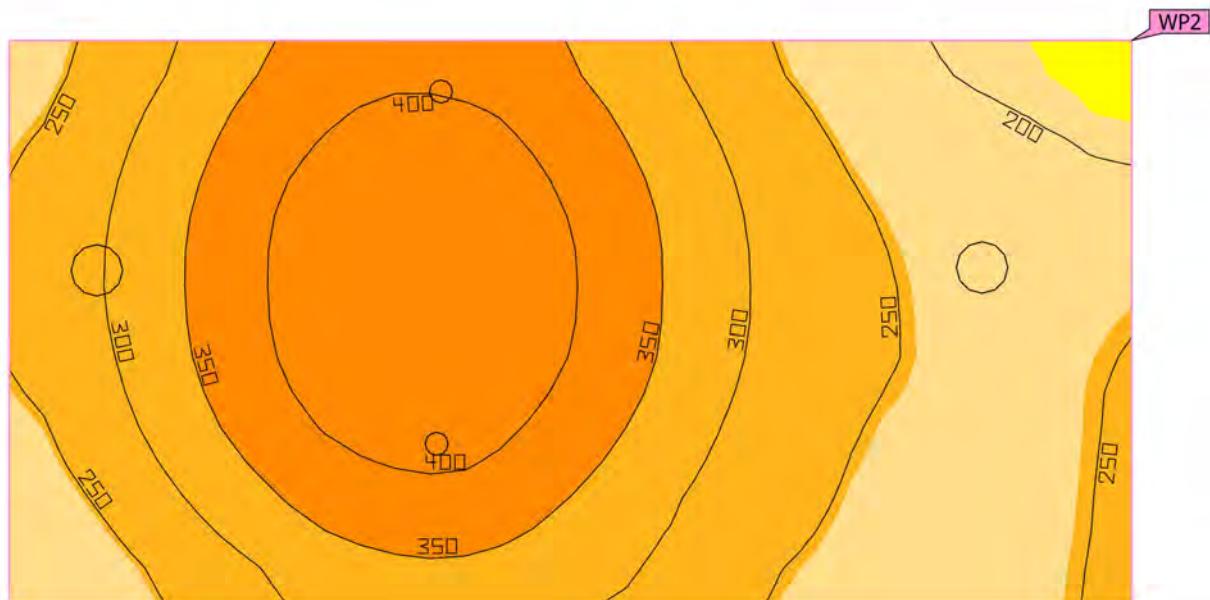
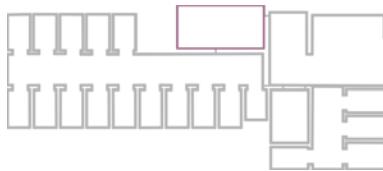
(2) Calculated using DIN:18599-4.

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

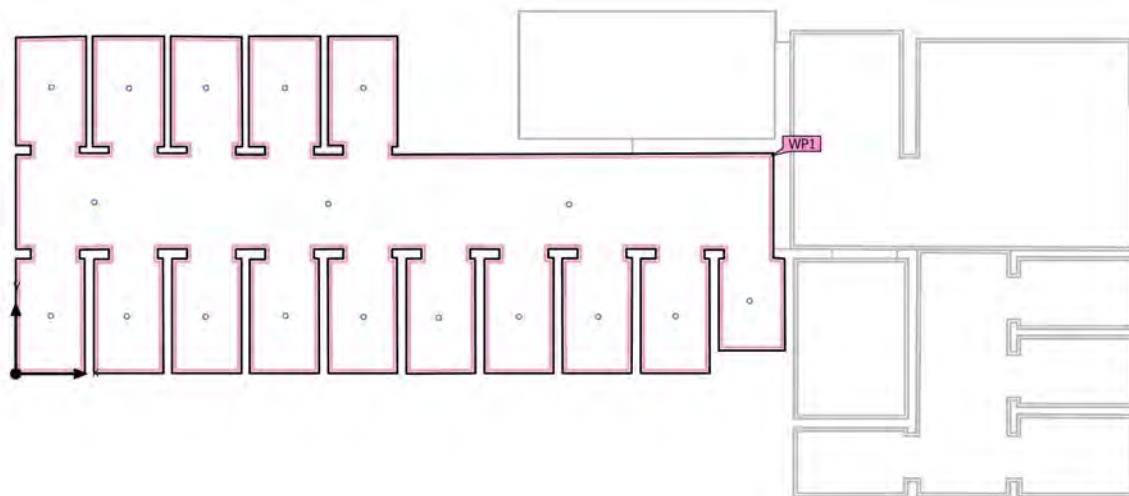
04-Toilet Area 01 · Storey 1 · Lockers (Light scene 1)
 Working plane (Lockers)



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.

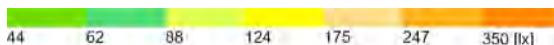
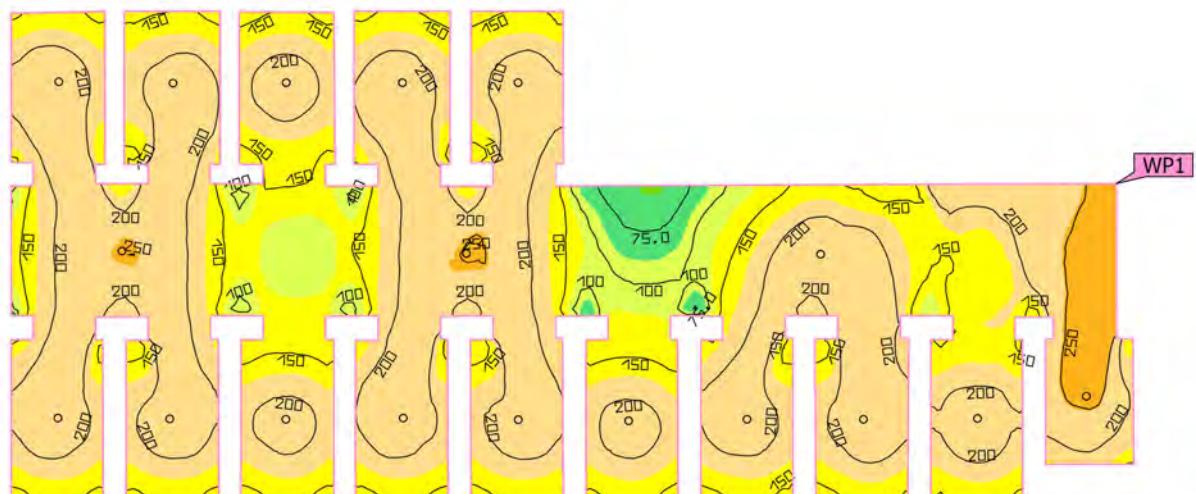
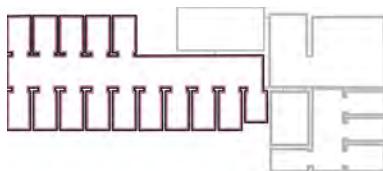
Utilisation profile: DIALux presetting (34.2 Standard (office))

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)

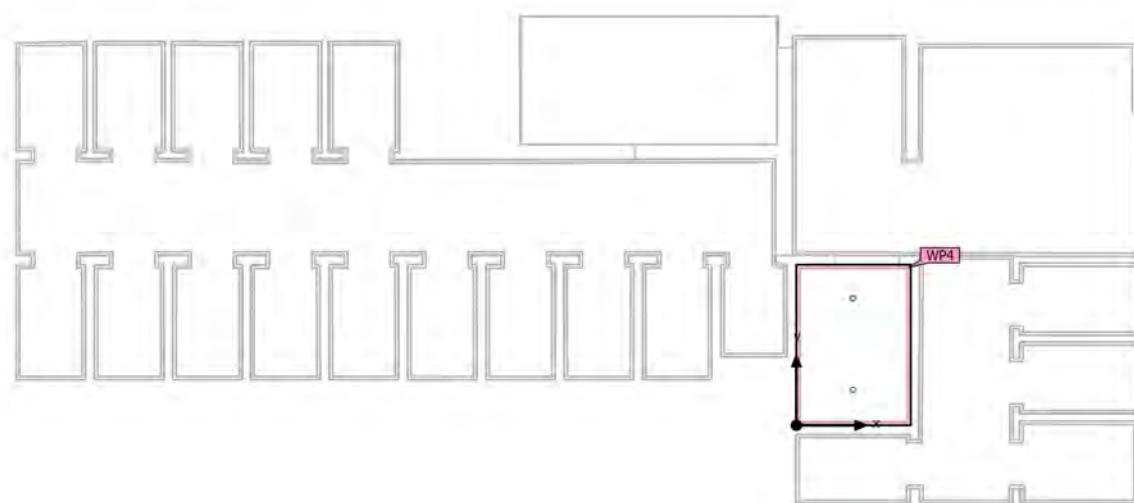
Working plane (Shower)



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.

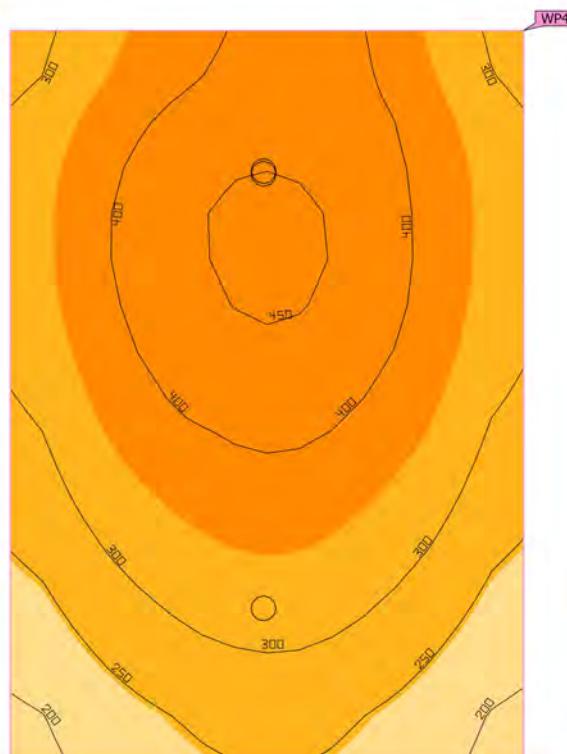
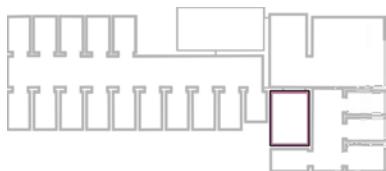
(2) Calculated using DIN:18599-4.

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)



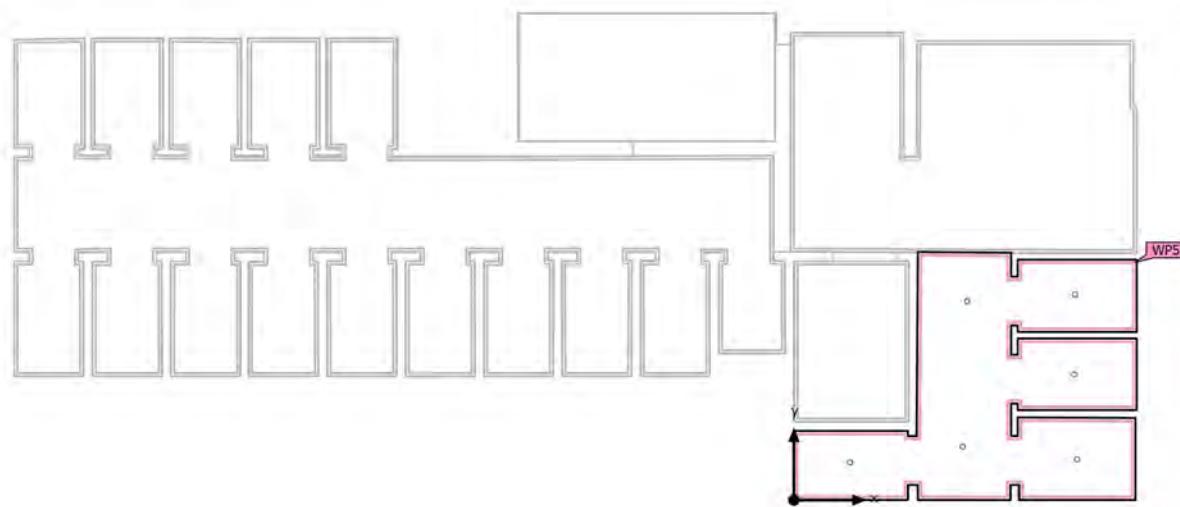
175 247 350 895 [lx]

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.

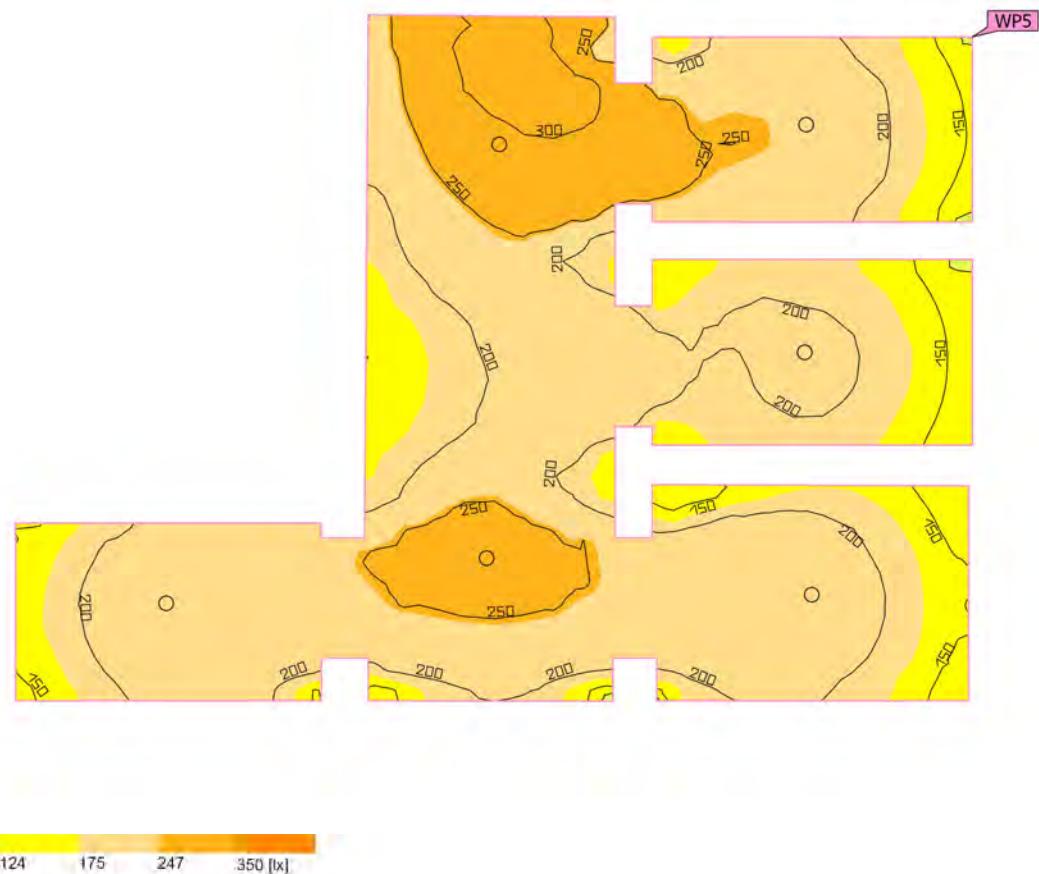
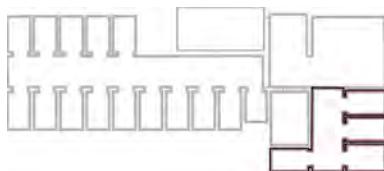
(2) Calculated using DIN:18599-4.

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

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	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)

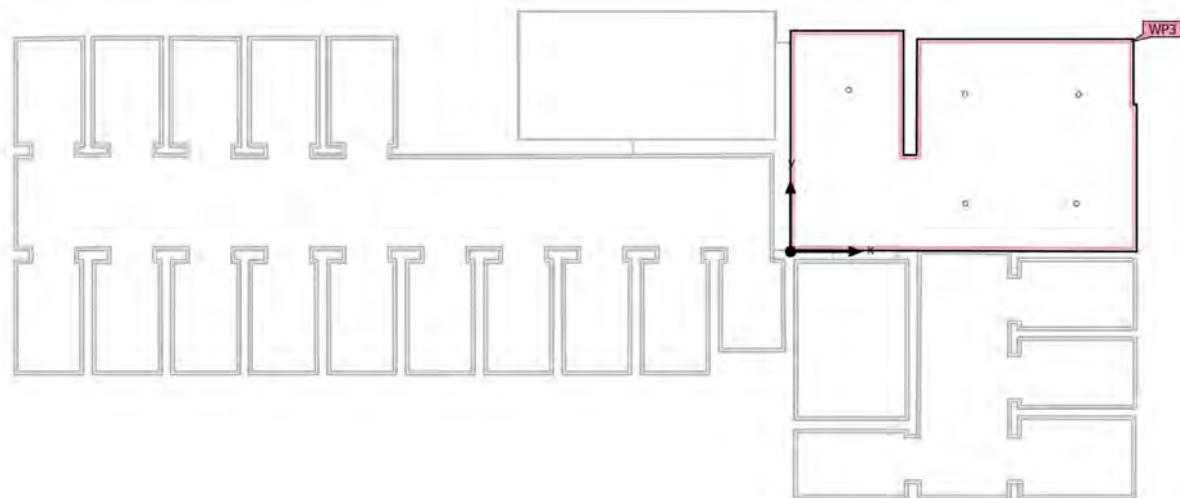


Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Toilets)	216 lx	121 lx	326 lx	0.56	0.37
Perpendicular illuminance (adaptive)					
Height: 0.000 m, Wall zone: 0.050 m					WP5

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.

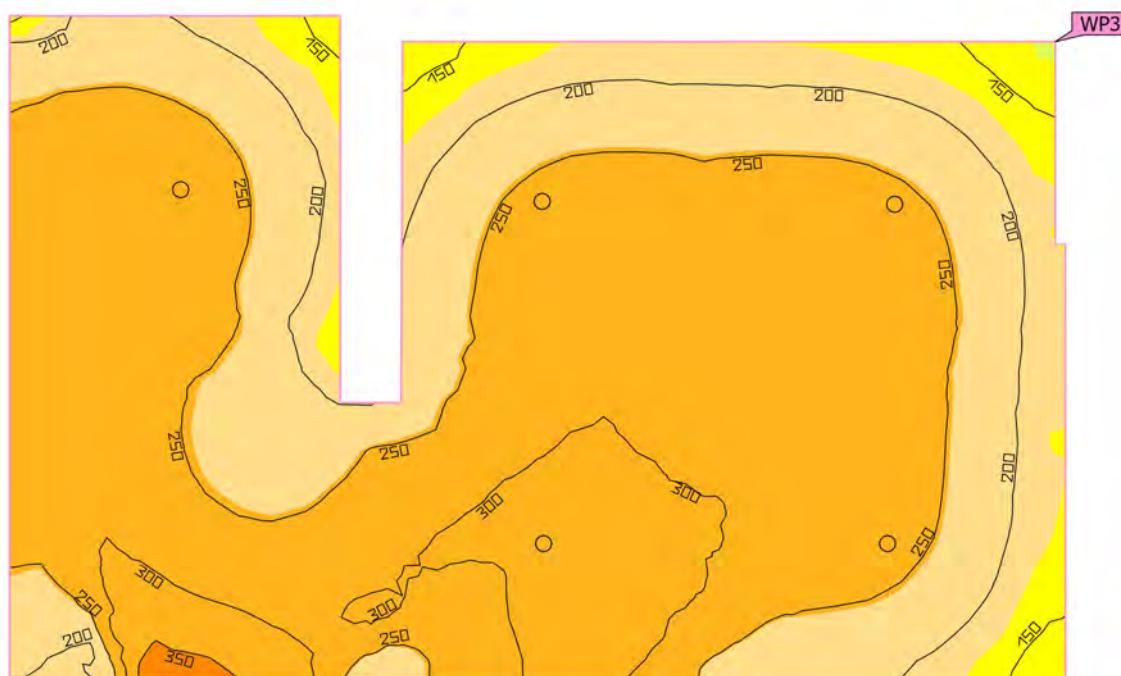
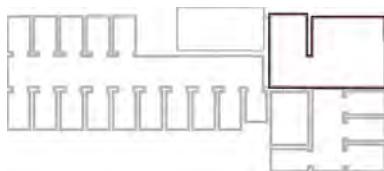
Utilisation profile: DIALux presetting (34.2 Standard (office))

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)



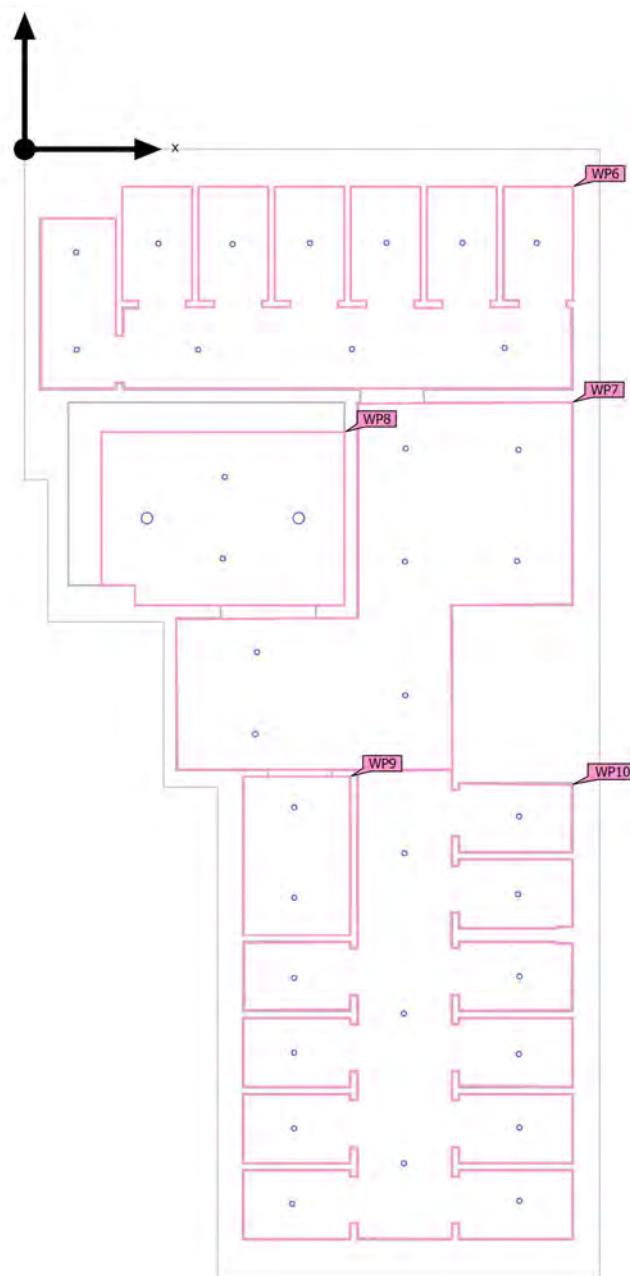
Properties		E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Wash Area)	253 lx	120 lx	373 lx	0.47	0.32	WP3
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.050 m						

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)

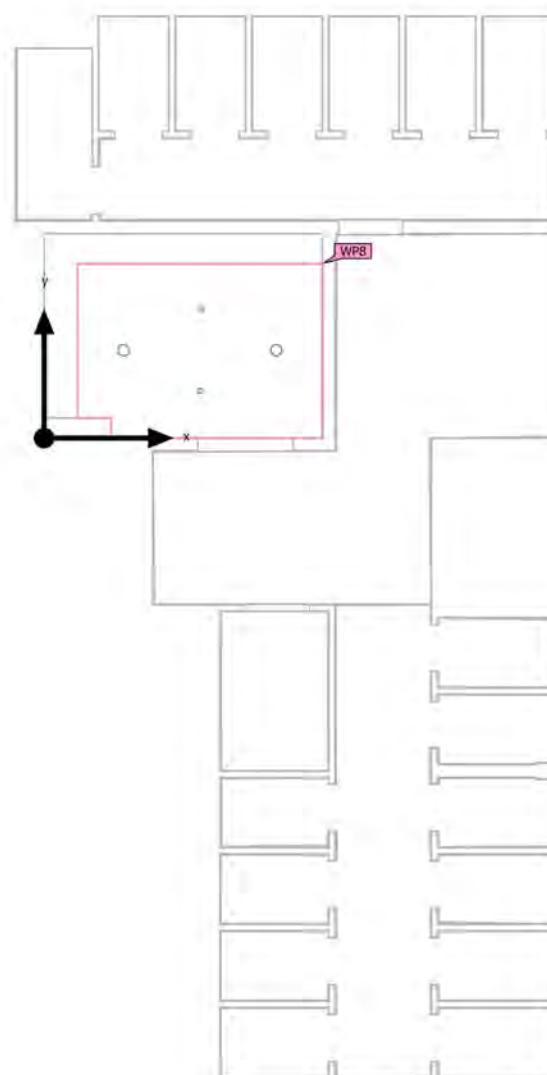
Calculation objects

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.

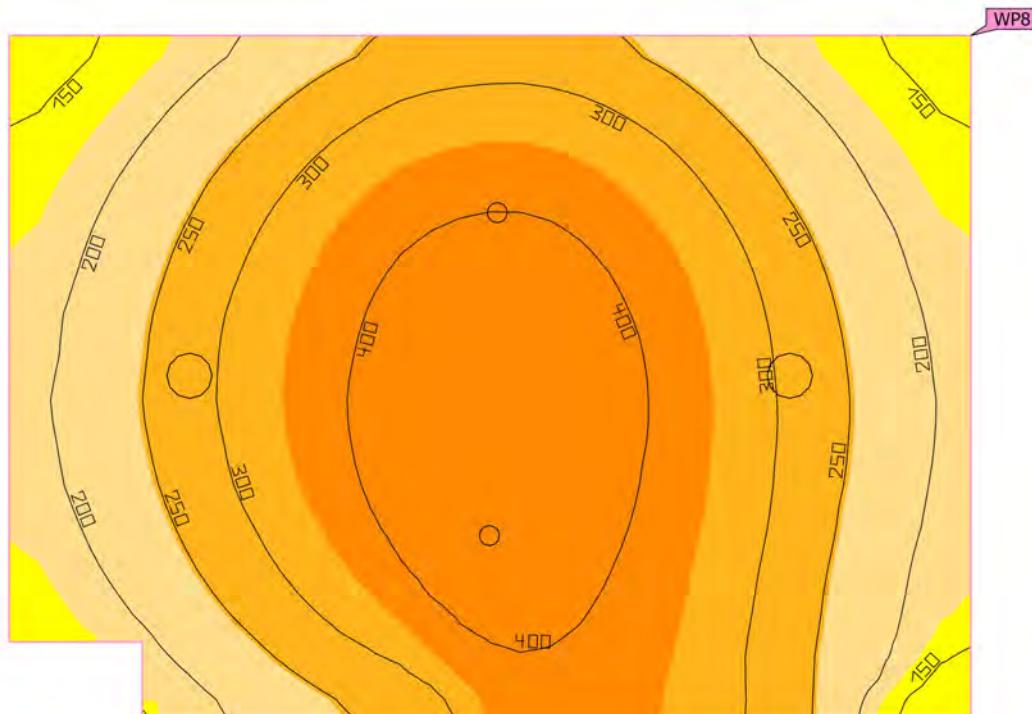
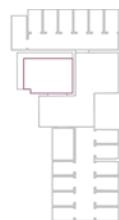
(2) Calculated using DIN:18599-4.

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)

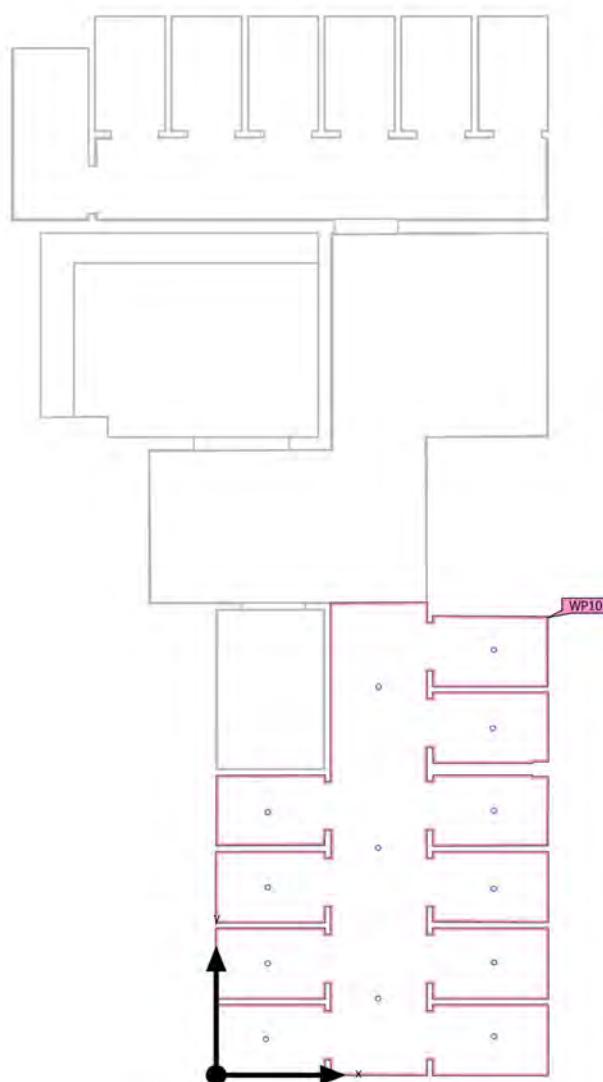


Properties		E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Lockers)	293 lx	127 lx	460 lx	0.43	0.28	WP8
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						

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.

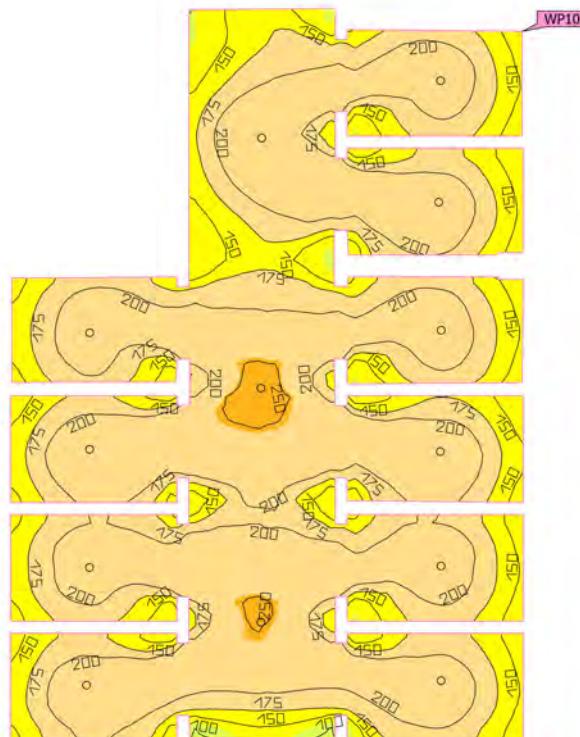
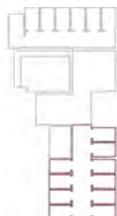
Utilisation profile: DIALux presetting (34.2 Standard (office))

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)

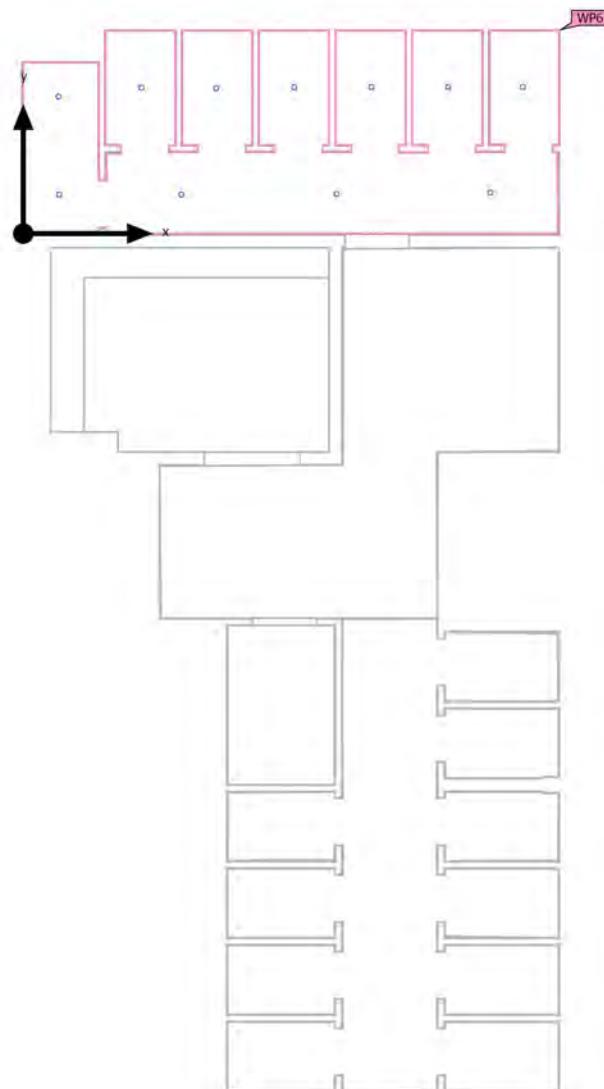


Properties		E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Showers)		195 lx	92.0 lx	0.47	0.35	WP10
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.010 m						

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.

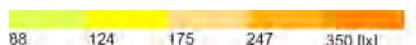
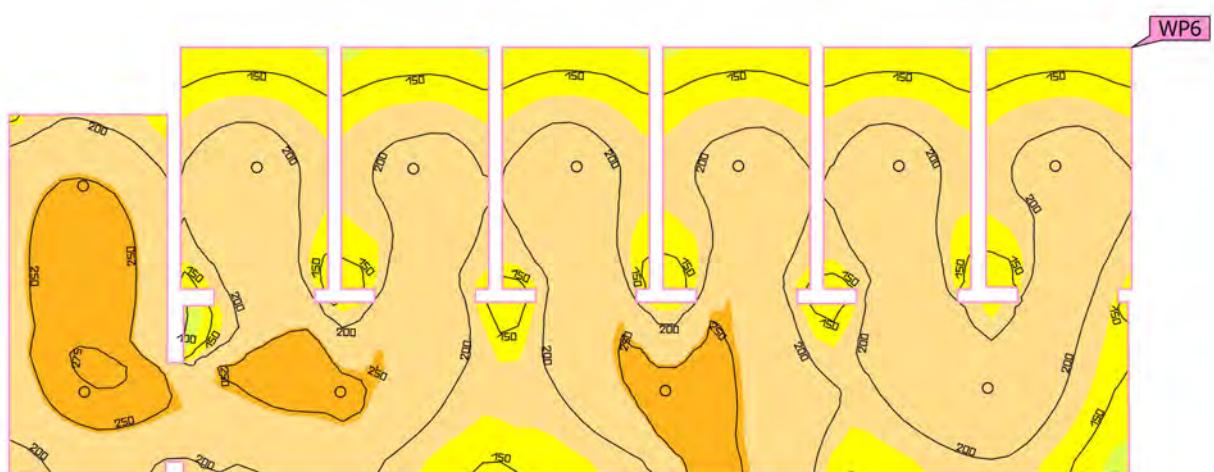
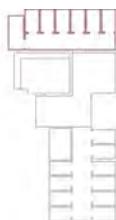
Utilisation profile: DIALux presetting (34.2 Standard (office))

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)

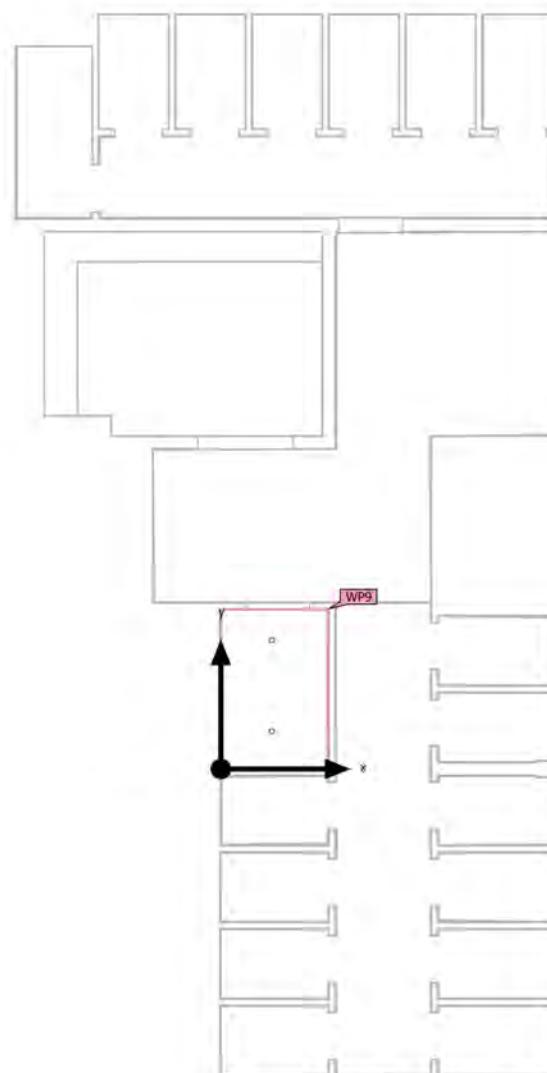


Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Toilet)	205 lx	94.2 lx	0.46	0.33	WP6
Perpendicular illuminance (adaptive)					
Height: 0.000 m, Wall zone: 0.000 m					

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.

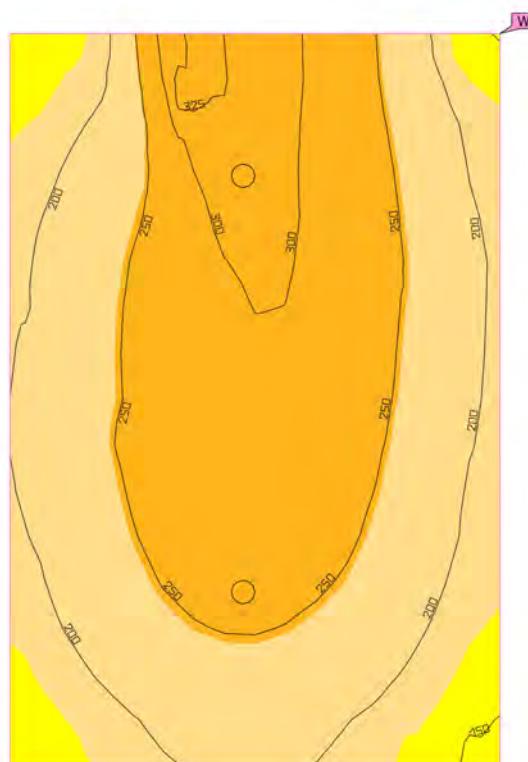
(2) Calculated using DIN:18599-4.

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)

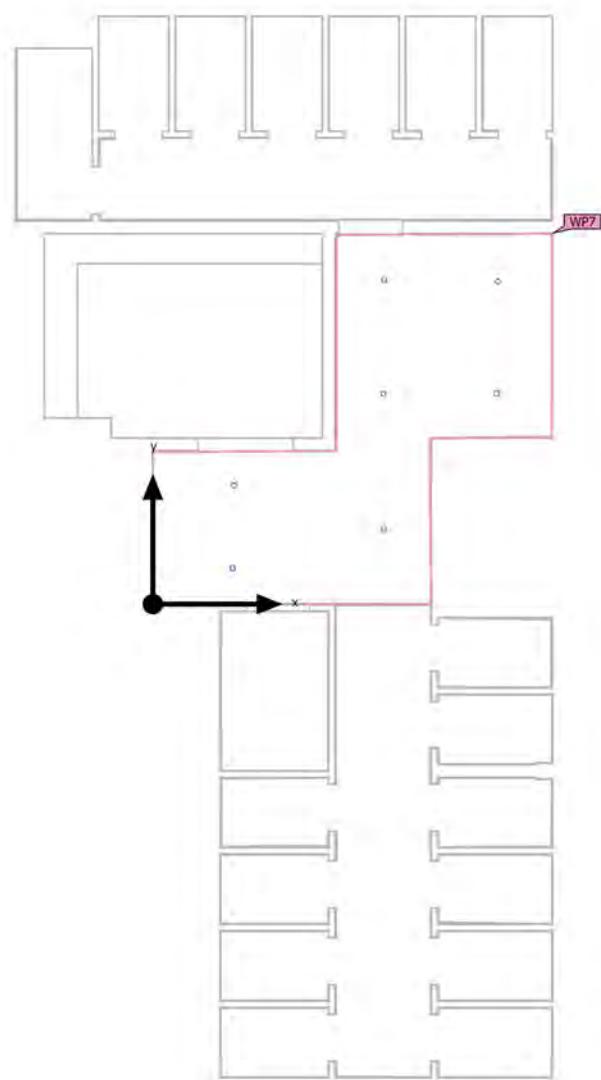


Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Toilet-POD) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	238 lx	143 lx	331 lx	0.60	0.43

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.

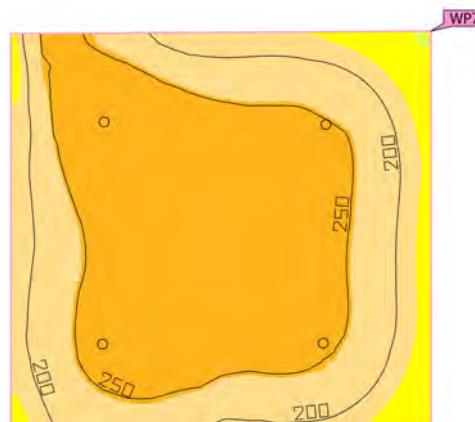
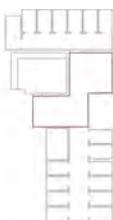
(2) Calculated using DIN:18599-4.

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						

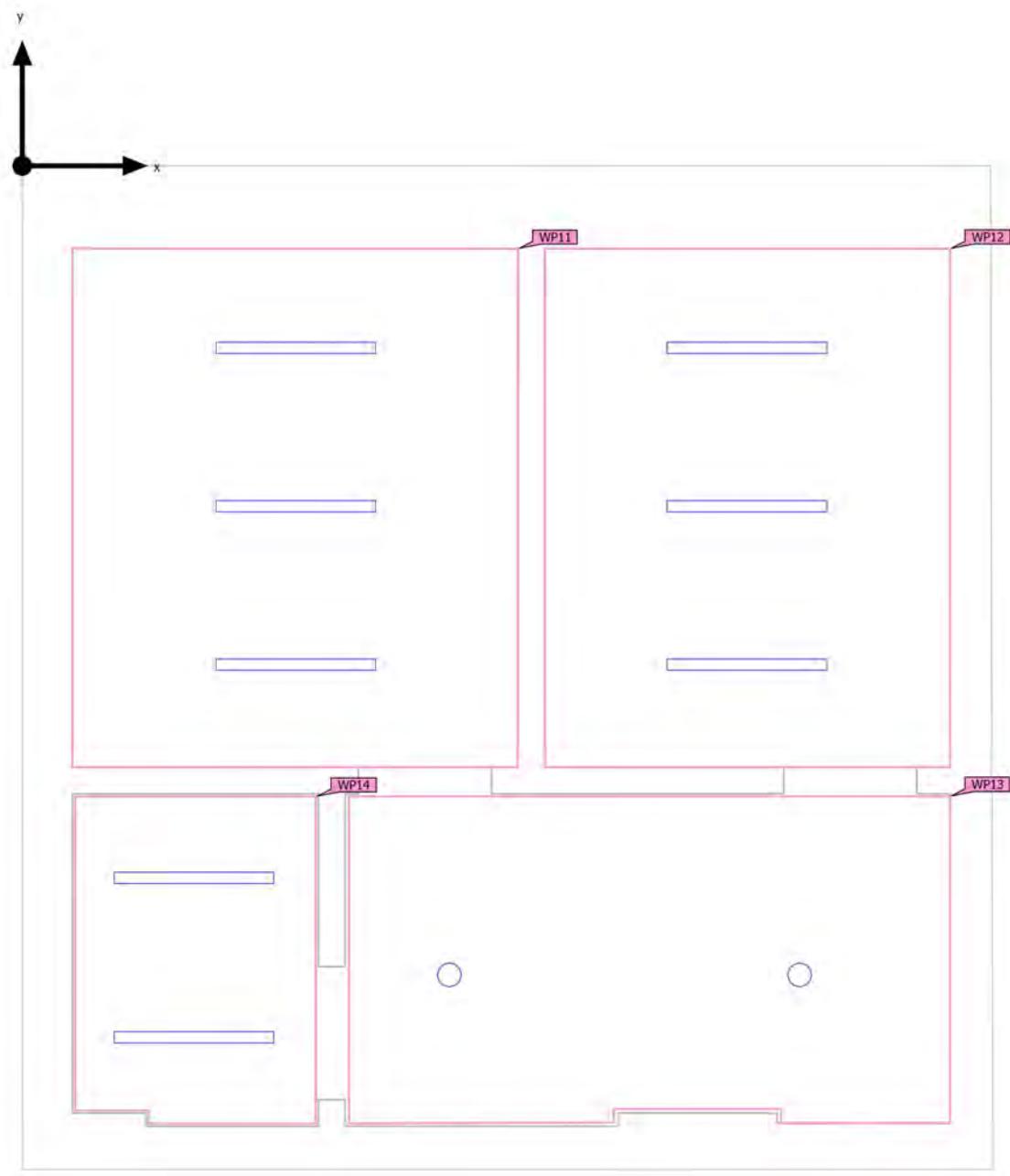
Utilisation profile: DIALux presetting (34.2 Standard (office))

06-Service Area 01

Description

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

Calculation objects



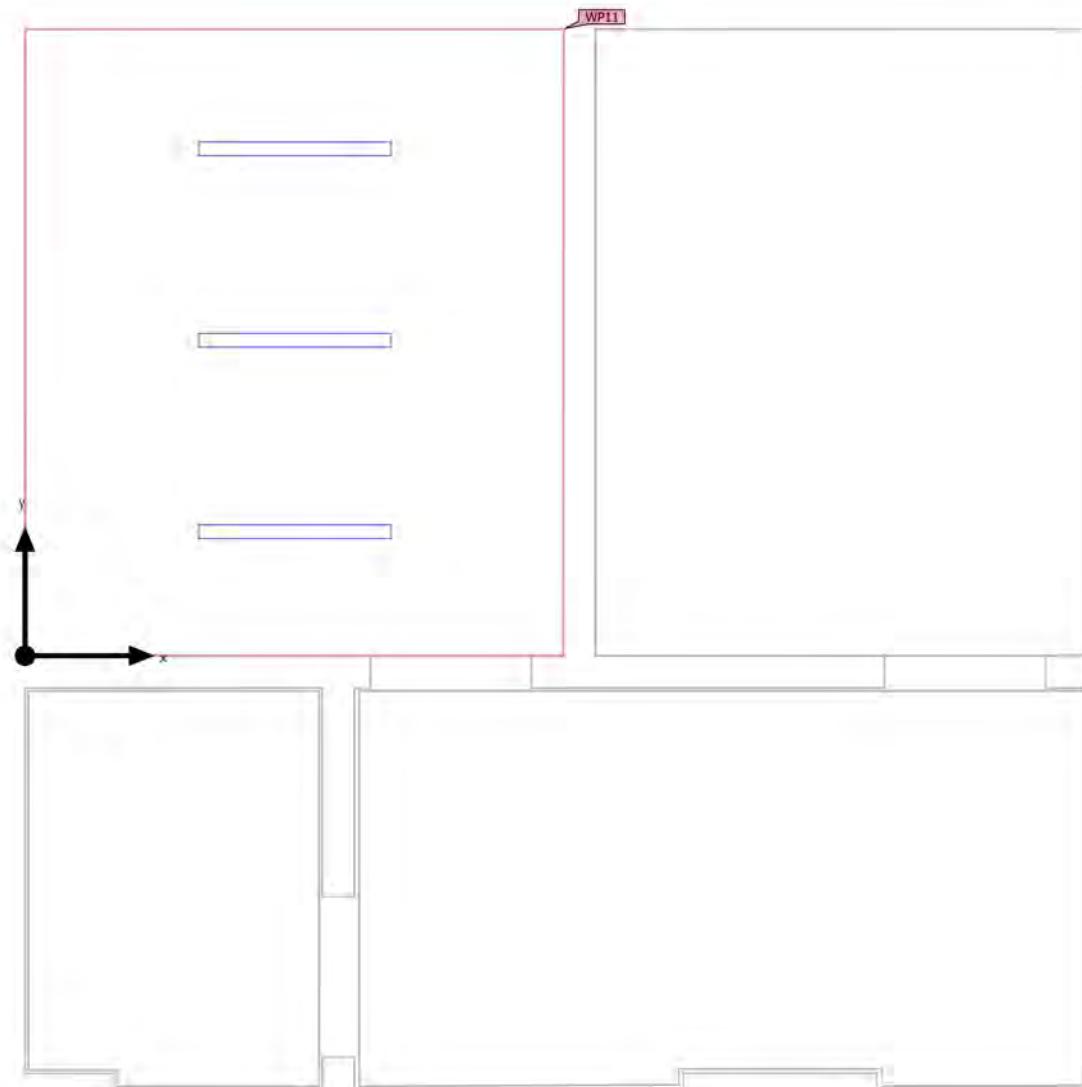
06-Service Area 01 · Storey 1 (Light scene 1)

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.

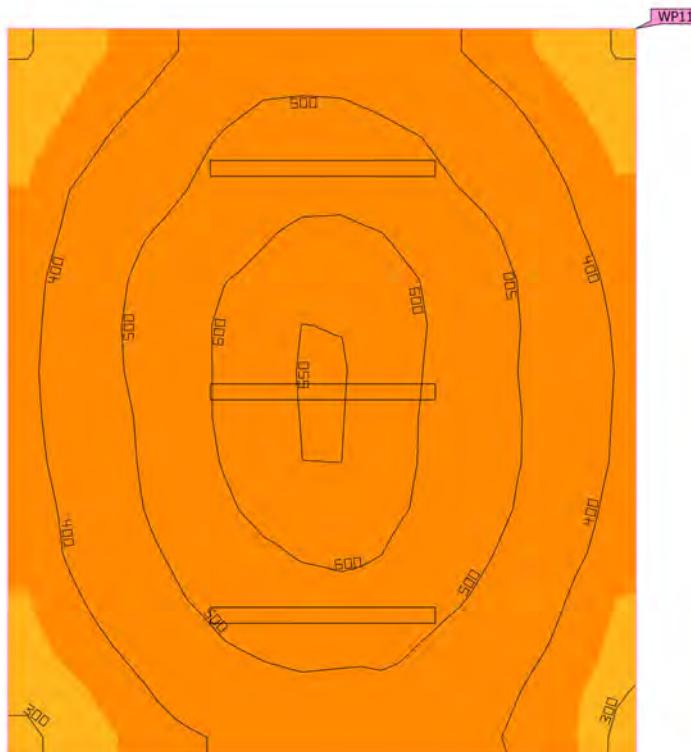
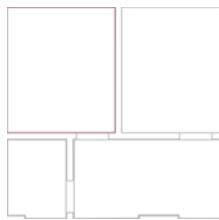
(2) Calculated using DIN:18599-4.

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)

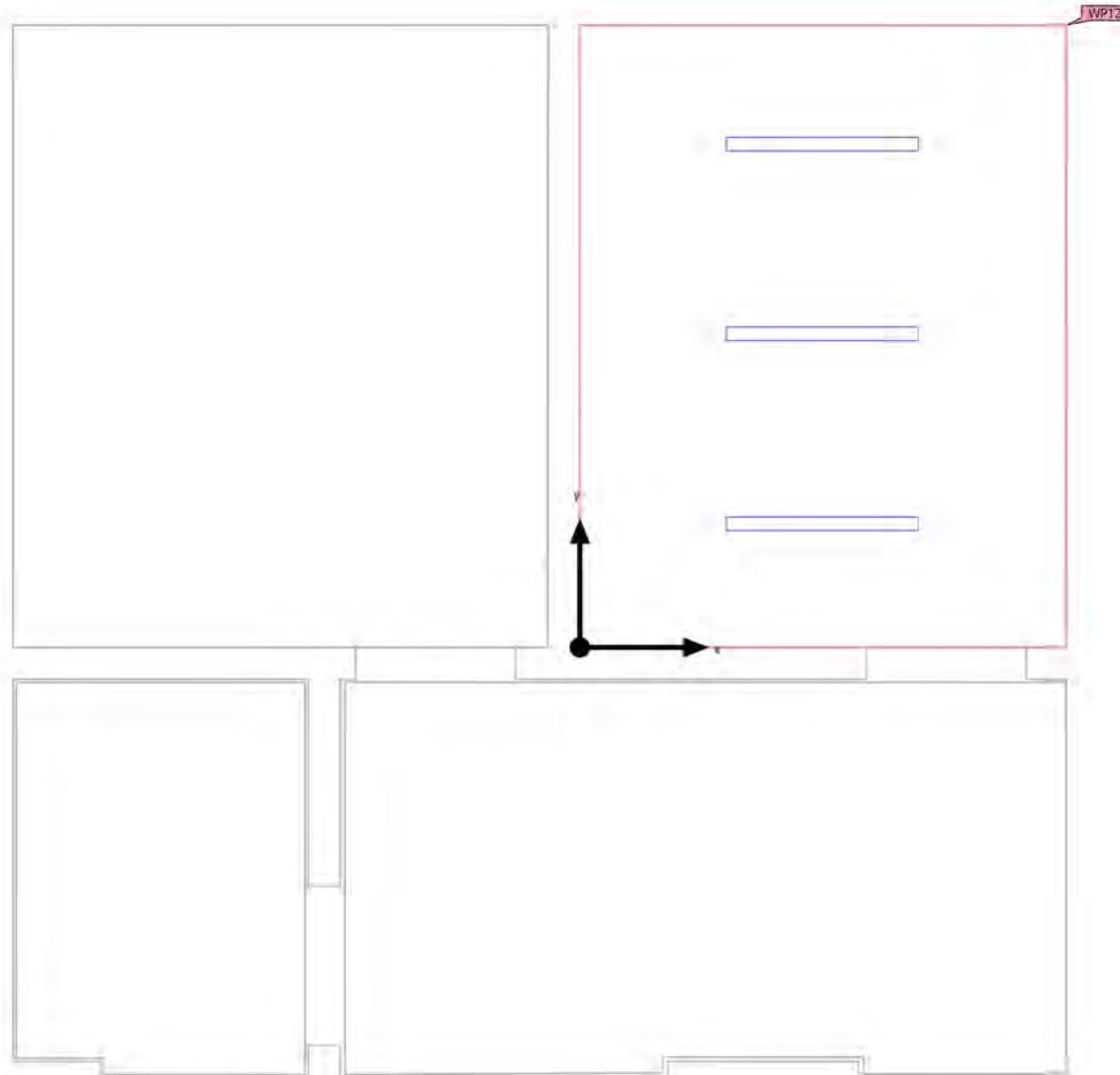


247 350 895 [lx]

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.

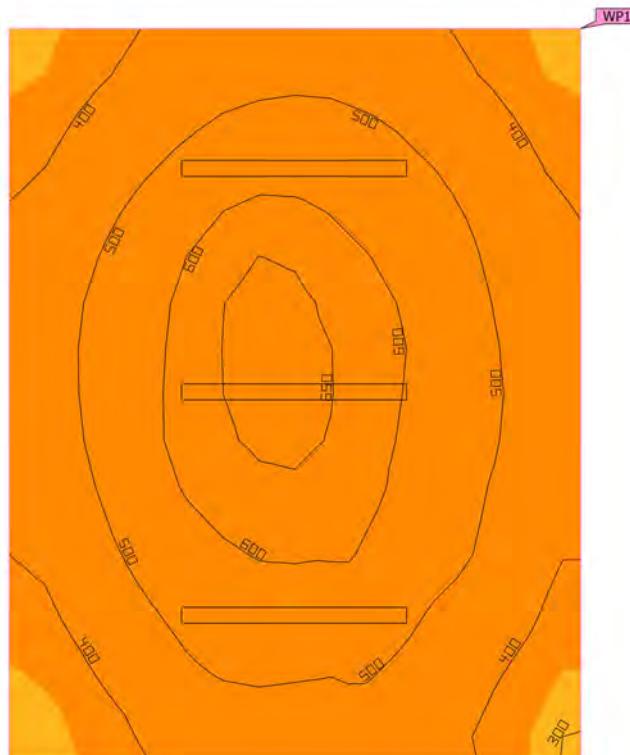
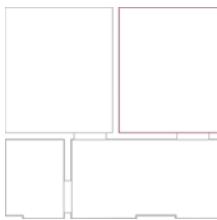
(2) Calculated using DIN:18599-4.

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.

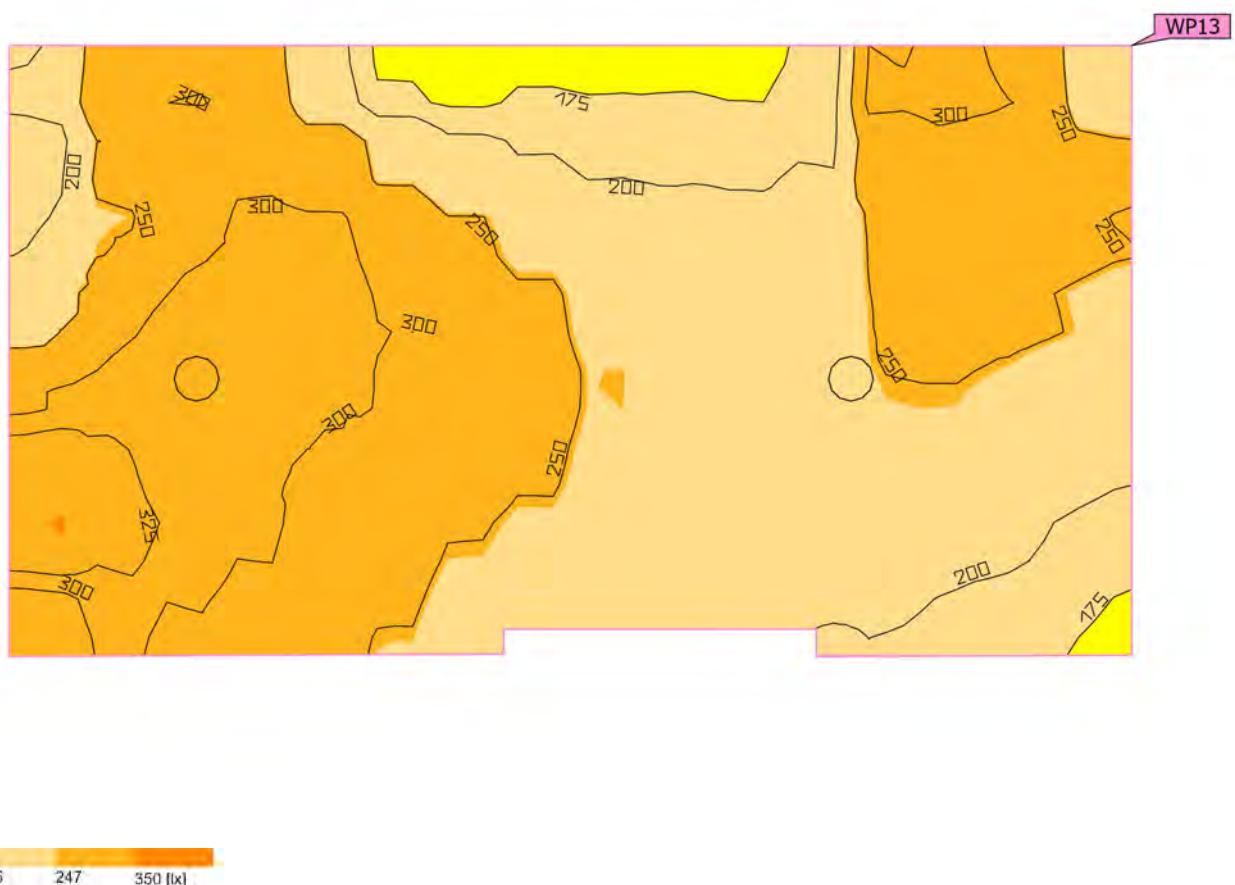
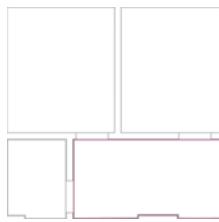
(2) Calculated using DIN:18599-4.

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

Luminaire list

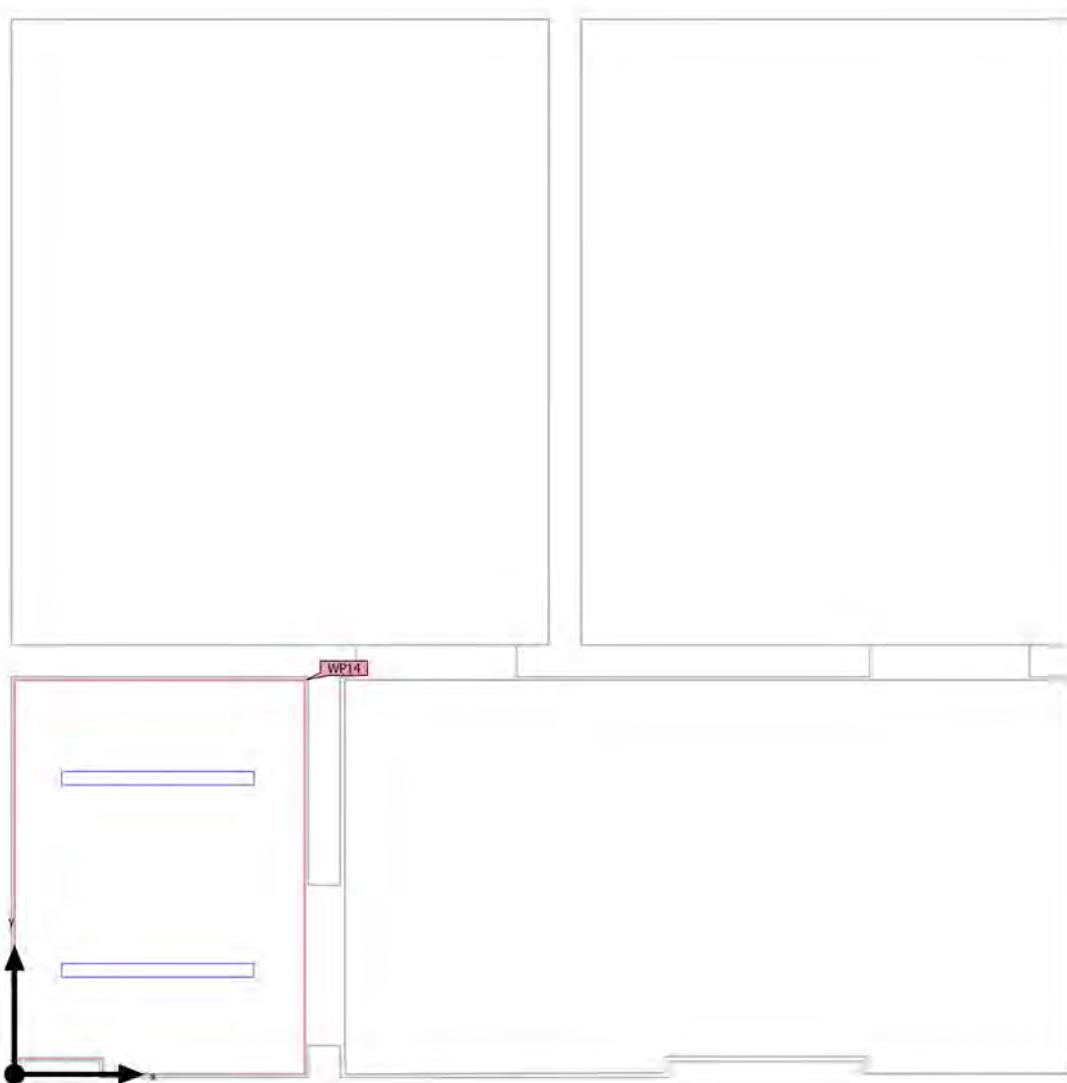
pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
2	FRATER	DLS1-017	Down Light DLS1 17W 6500K	–	17.0 W	2040 lm 120.0 lm/W

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.

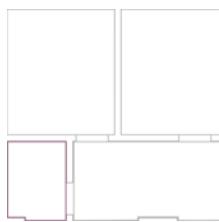
(2) Calculated using DIN:18599-4.

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]

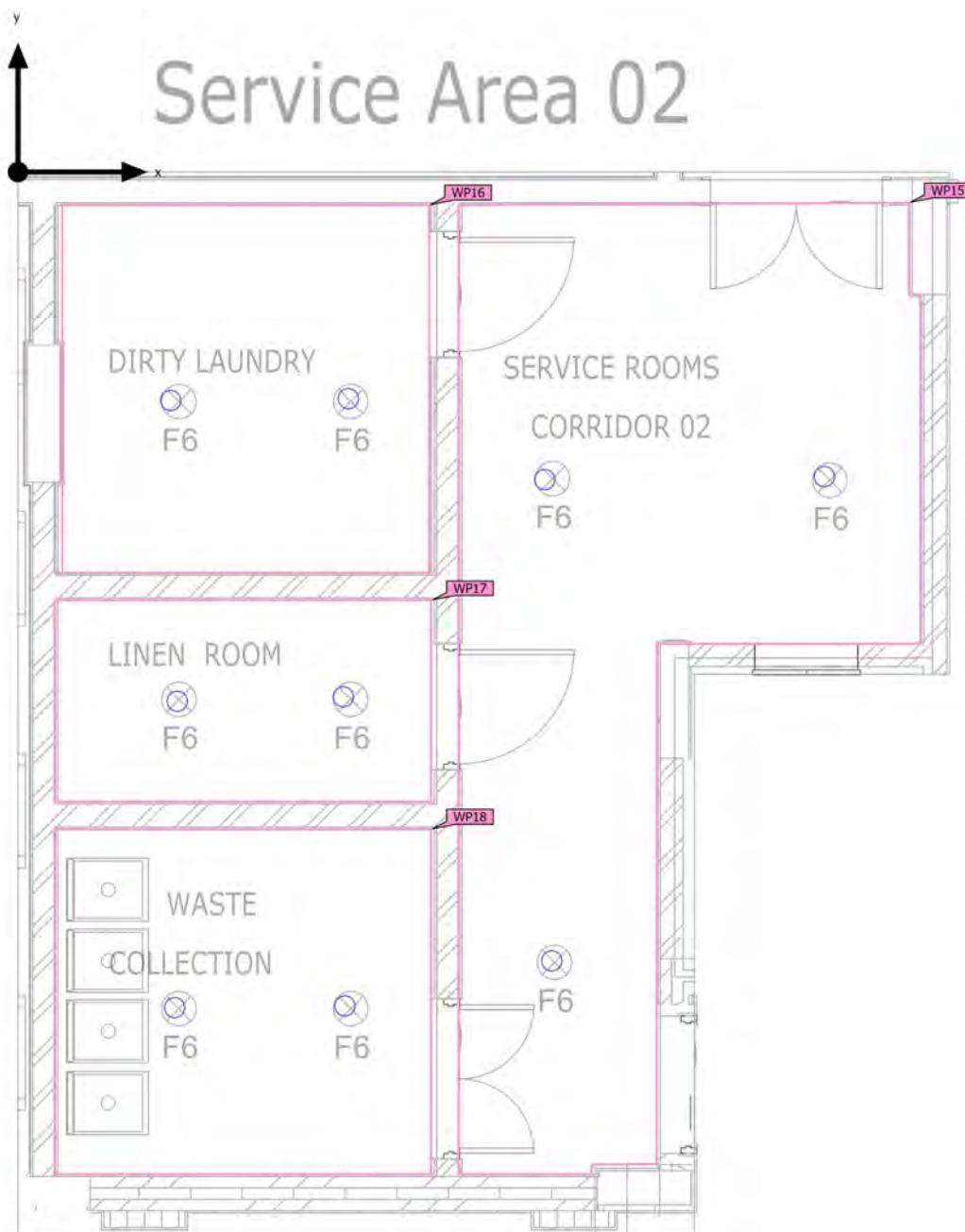
Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Store)	370 lx	310 lx	435 lx	0.84	0.71
Perpendicular illuminance (adaptive)					
Height: 0.000 m, Wall zone: 0.000 m					WP14

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

07- Service Area 02

Description

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

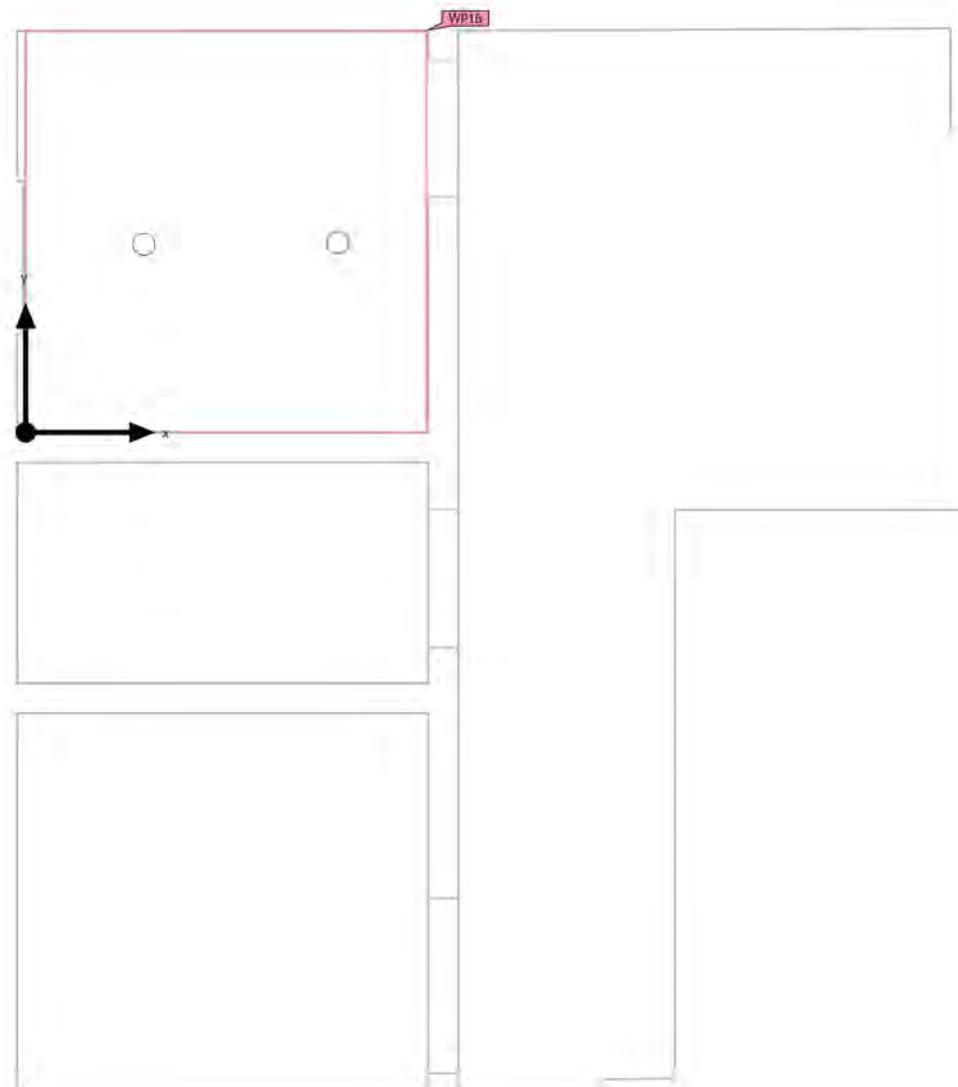


07- Service Area 02 · Storey 1 (Light scene 1)
Calculation objects

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.

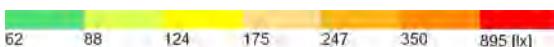
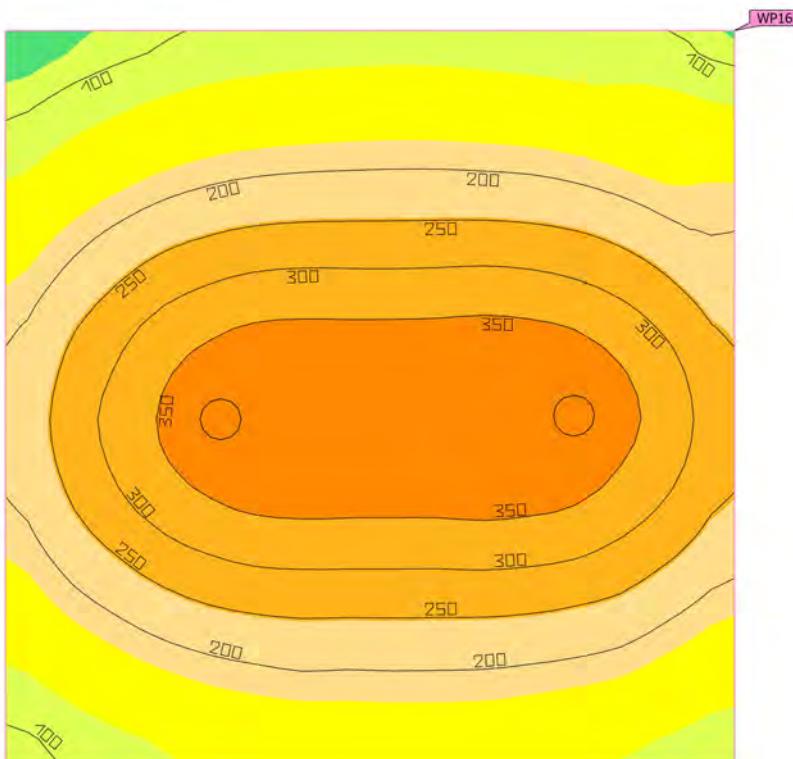
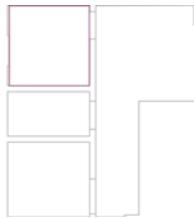
(2) Calculated using DIN:18599-4.

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

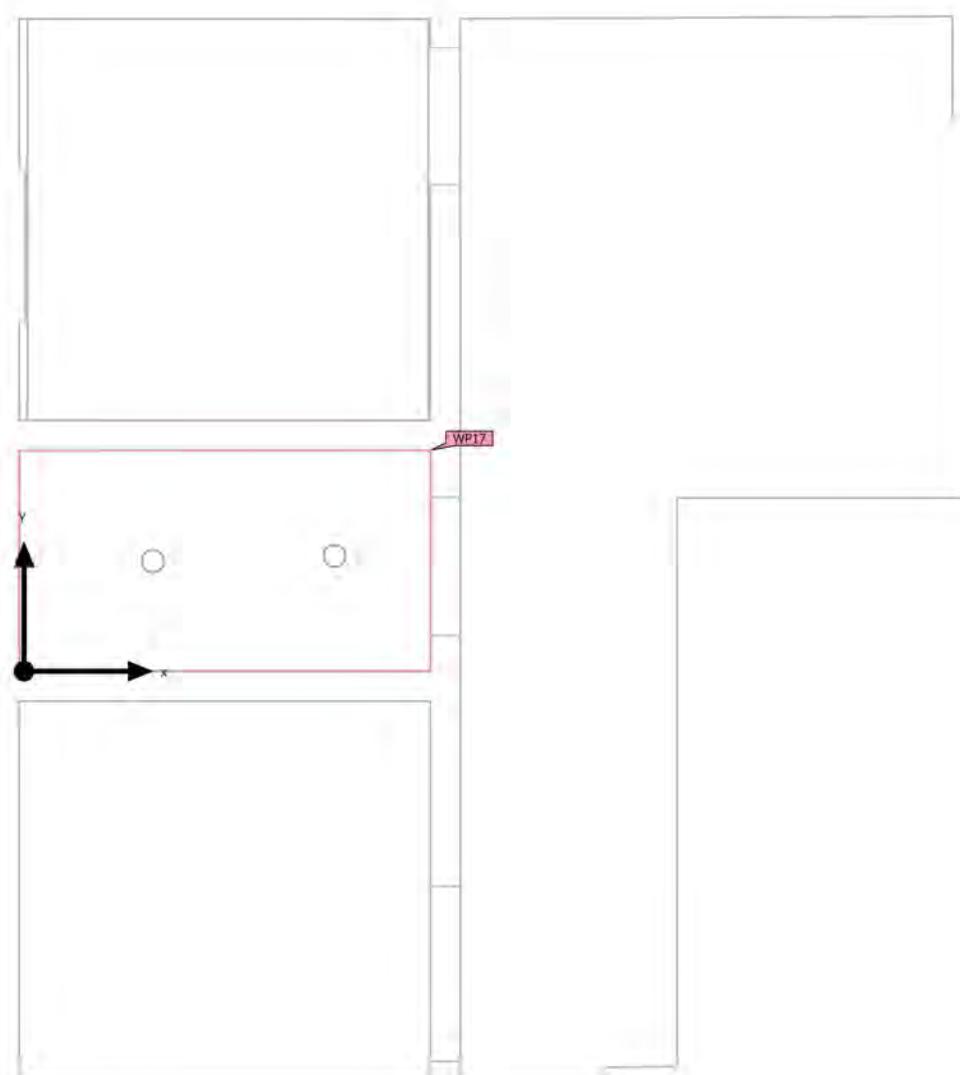
07- Service Area 02 · Storey 1 · Dirty Laundry (Light scene 1)
 Working plane (Dirty Laundry)



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.

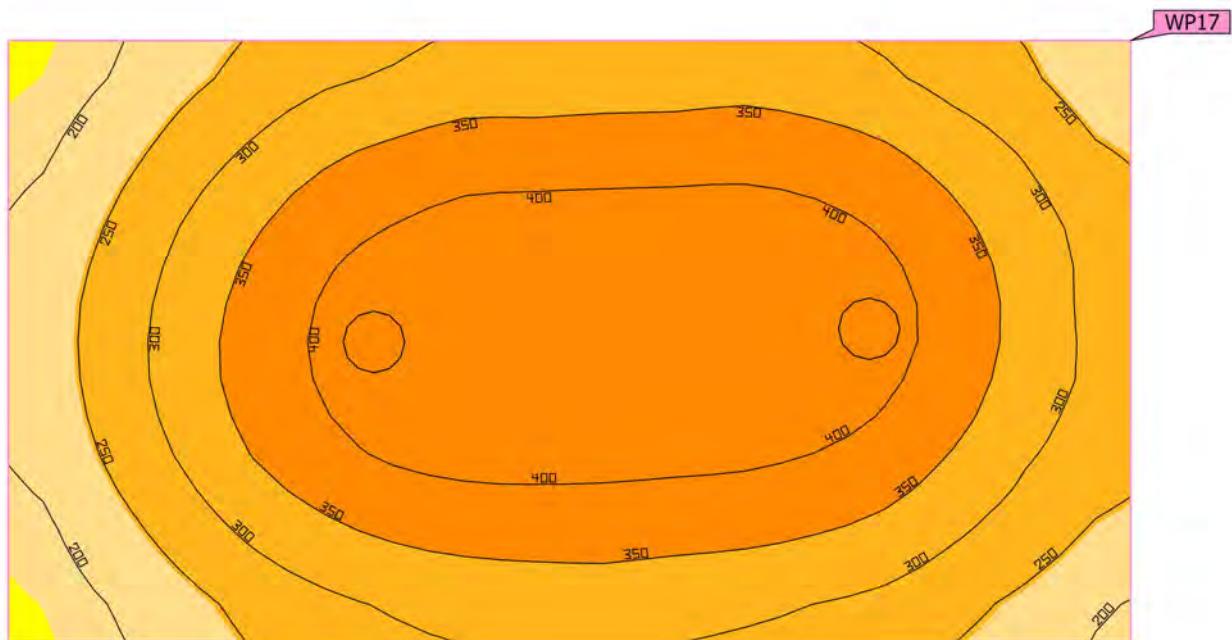
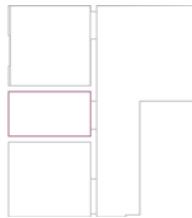
(2) Calculated using DIN:18599-4.

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

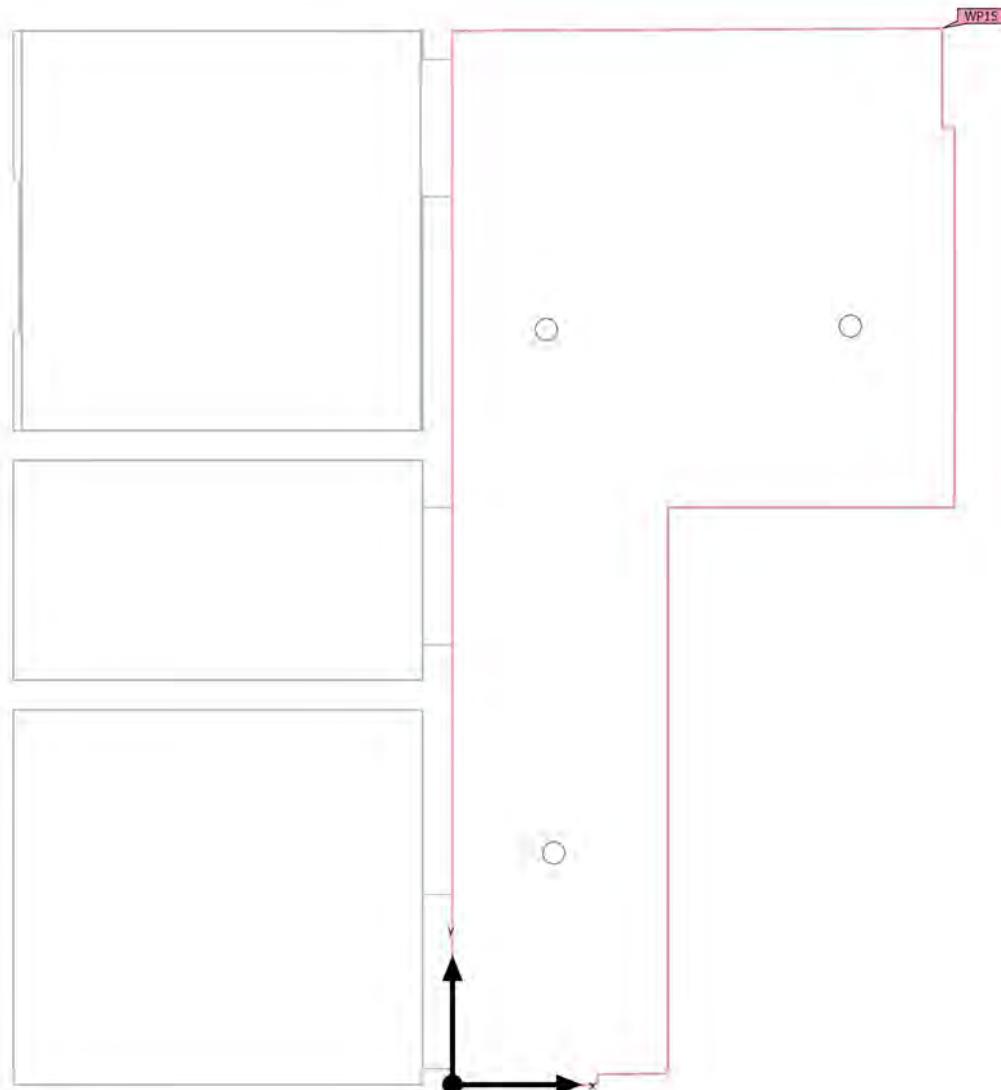
07- Service Area 02 · Storey 1 · Linen Room (Light scene 1)
 Working plane (Linen Room)



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.

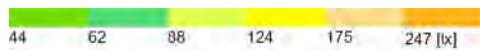
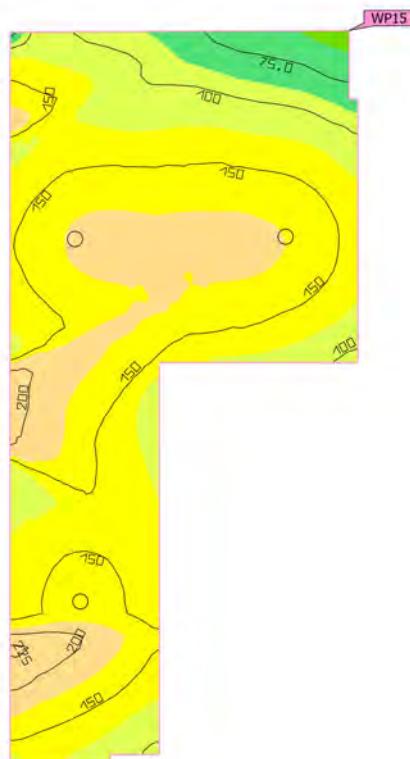
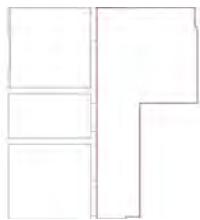
(2) Calculated using DIN:18599-4.

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

Luminaire list

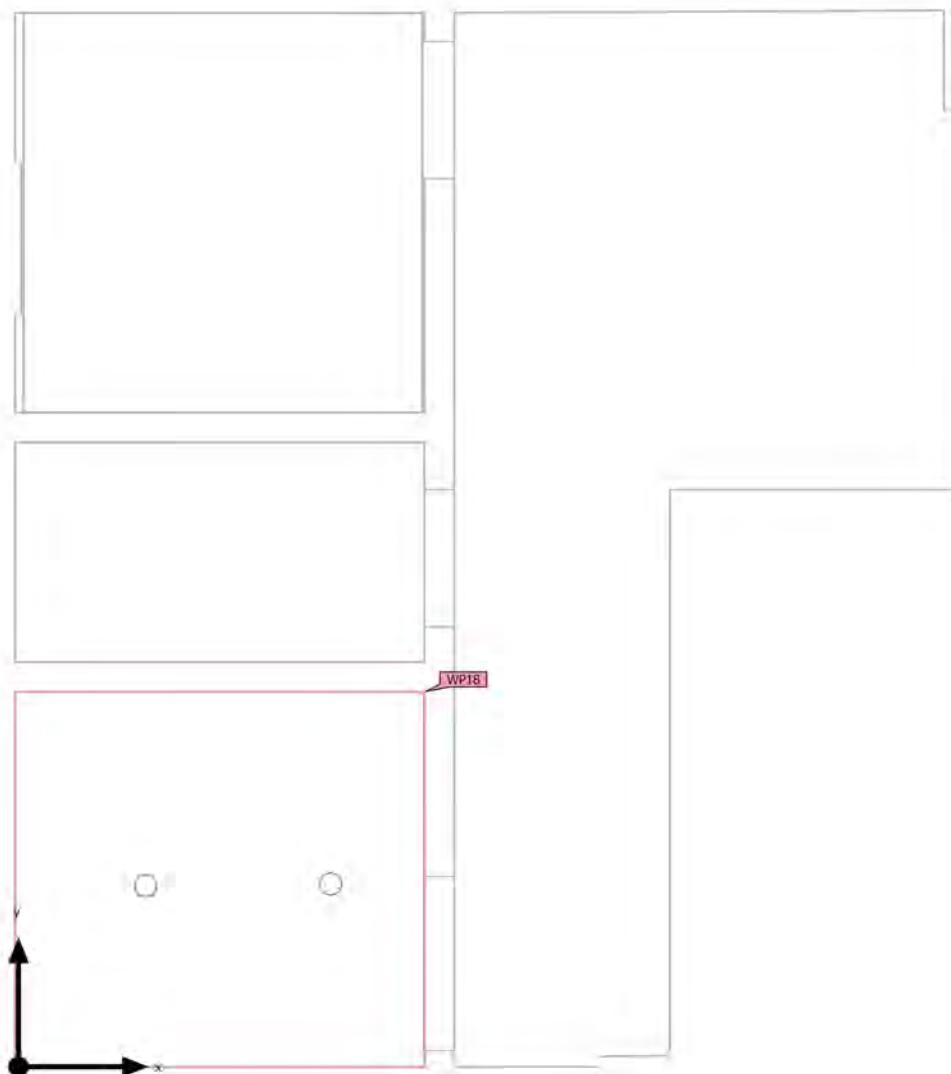
pcs.	Manufacturer	Article No.	Article name	R _{UG}	P	Luminous efficacy
3	FRATER	DLS1-017	Down Light DLS1 17W 6500K	–	17.0 W	2040 lm 120.0 lm/W

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.

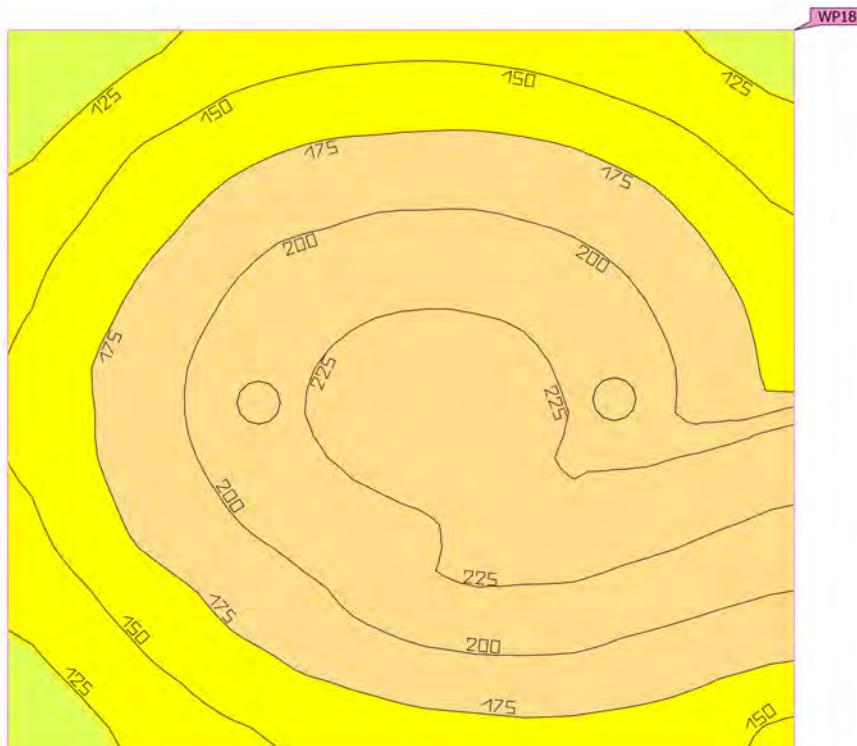
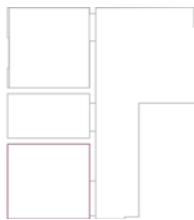
(2) Calculated using DIN:18599-4.

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)



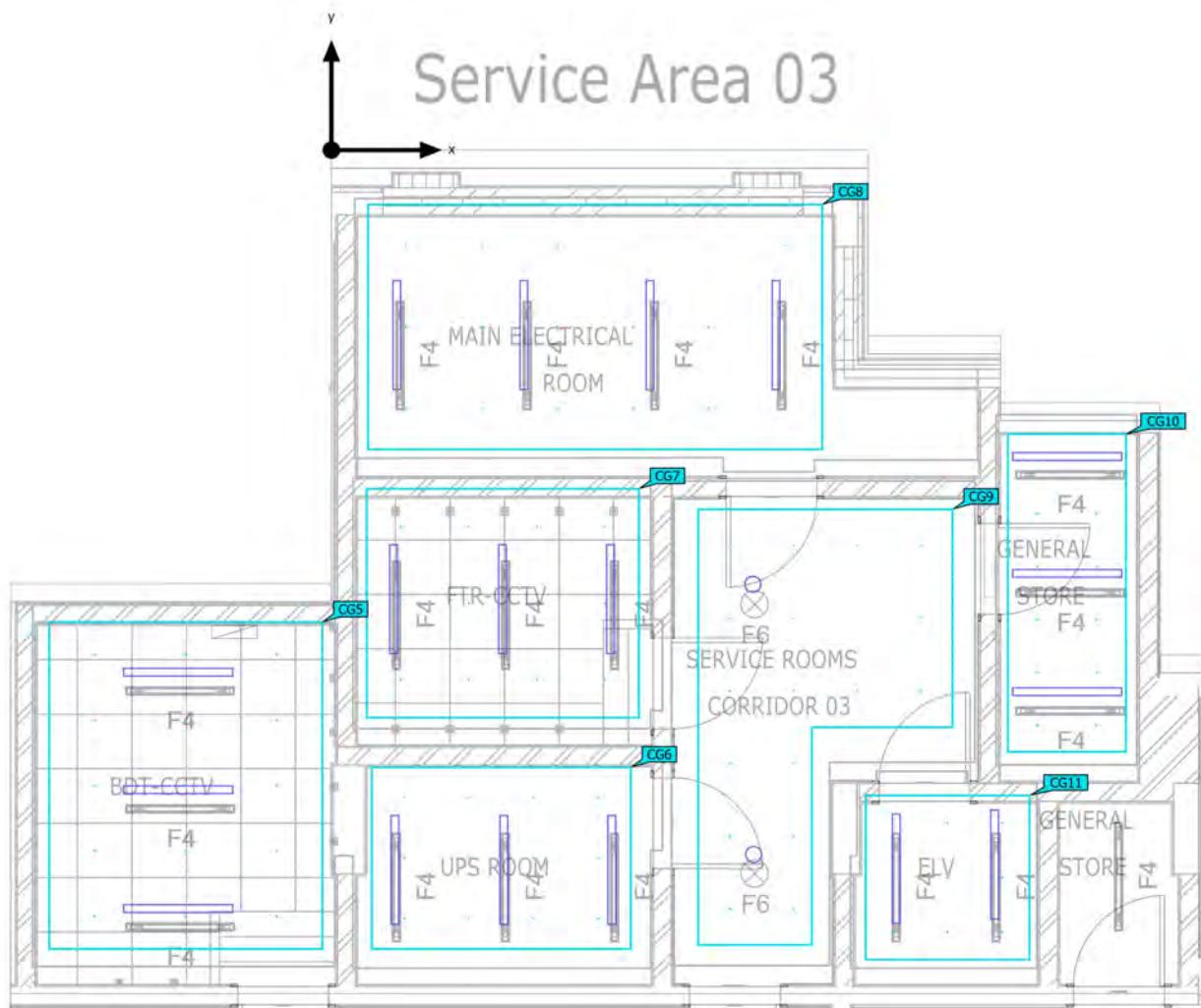
Properties		E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Waste Collection) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m		183 lx	102 lx	241 lx	0.56	0.42

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

08-Service Area 03

Description

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



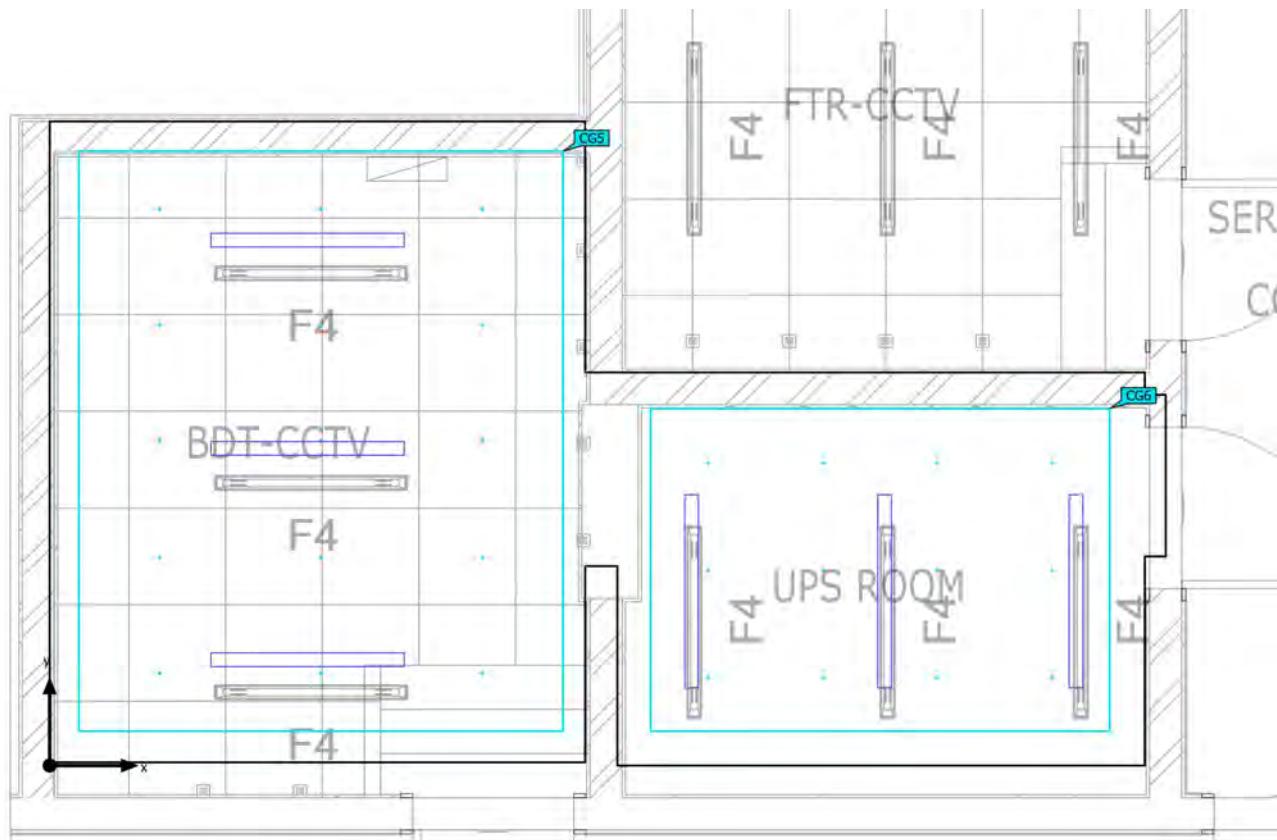
08-Service Area 03 · Storey 1 (Light scene 1)

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.

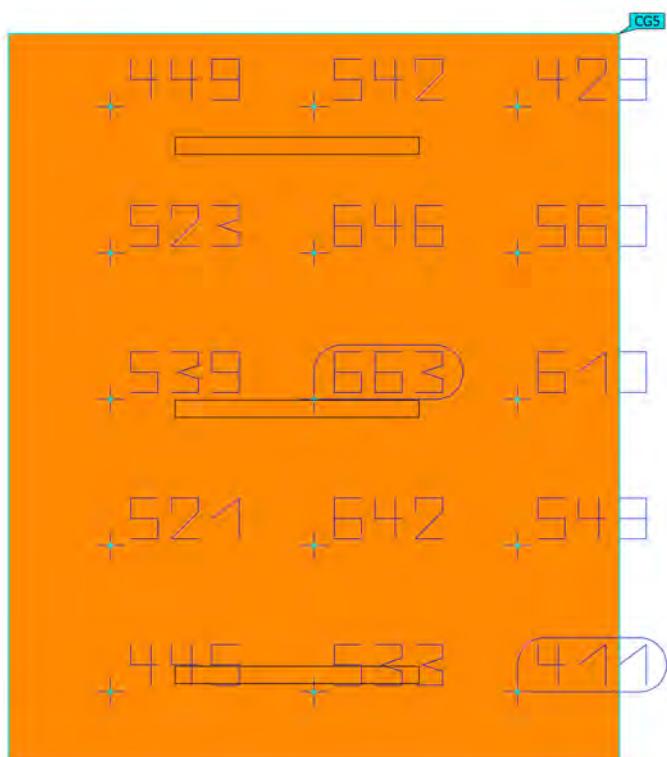
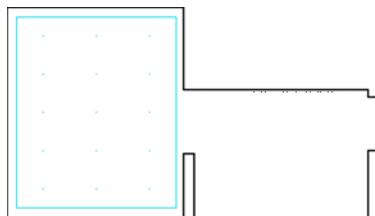
Utilisation profile: DIALux presetting (34.2 Standard (office))

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

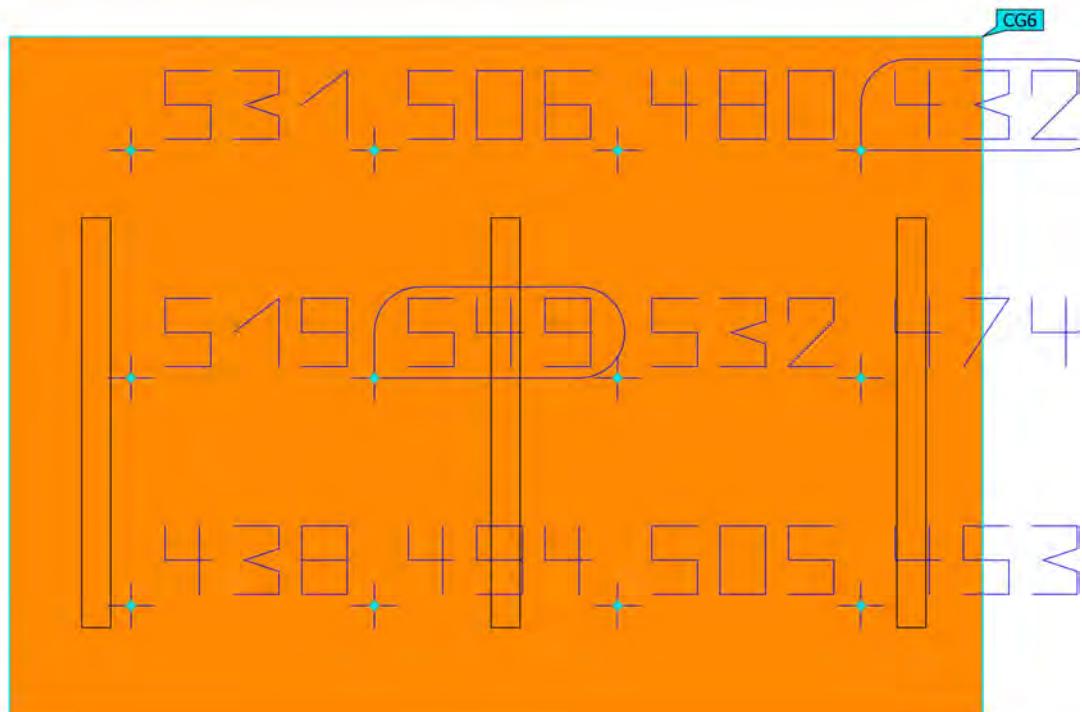
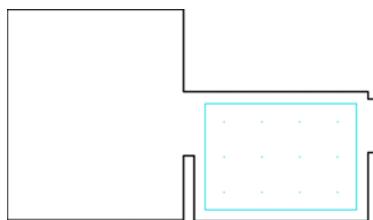



Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
BDT- CCTV Perpendicular illuminance Height: 0.800 m	537 lx	411 lx	663 lx	0.77	0.62

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

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

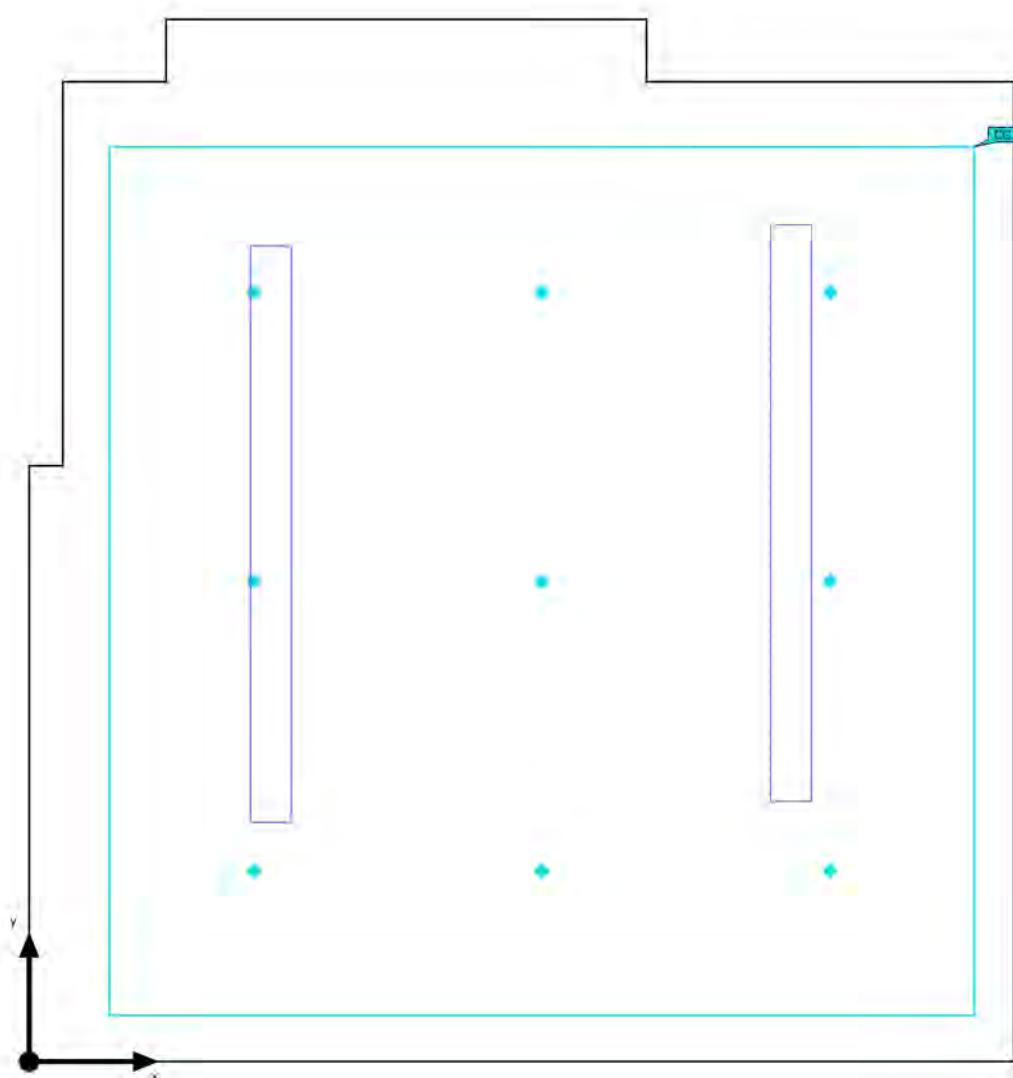
UPS



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.

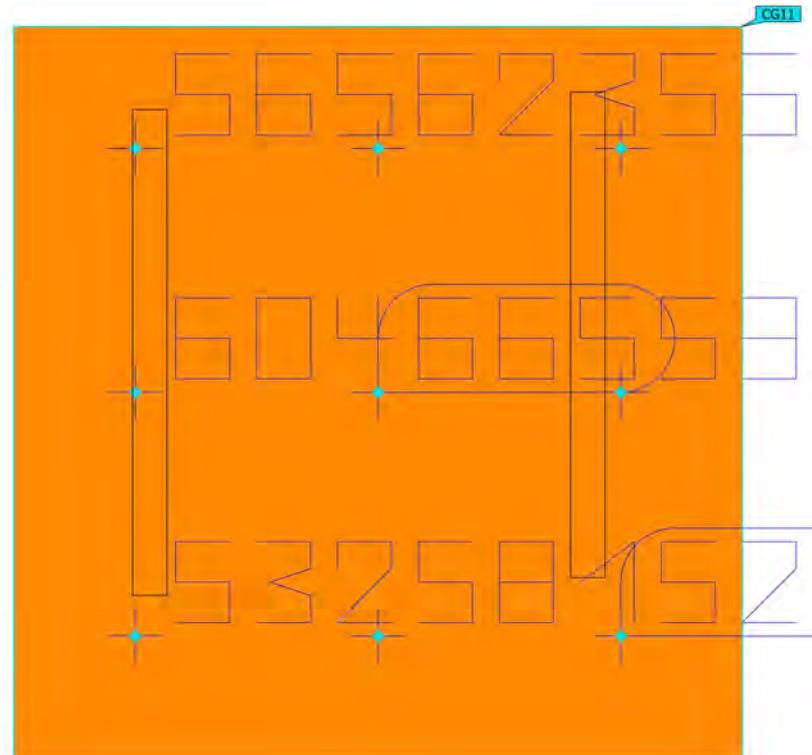
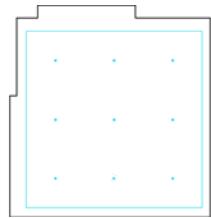
Utilisation profile: DIALux presetting (34.2 Standard (office))

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)

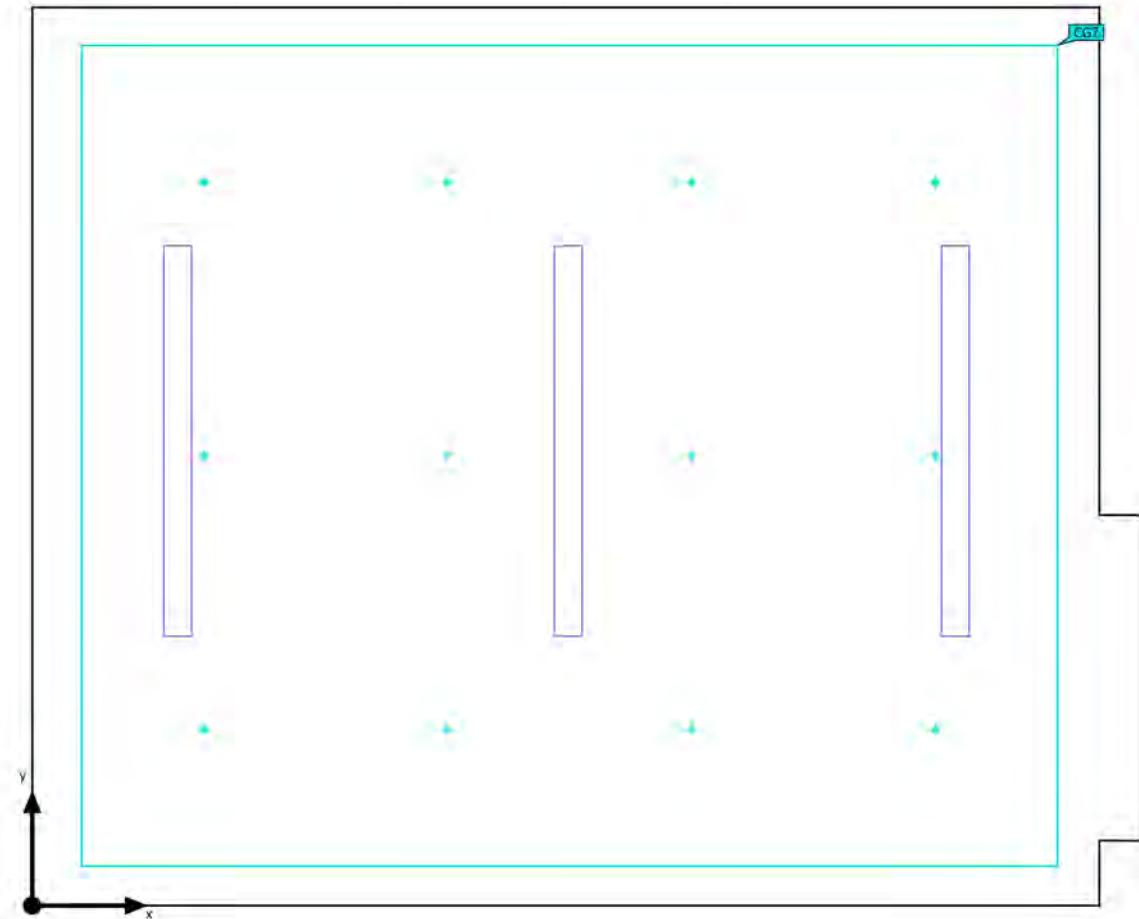
ELV



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.

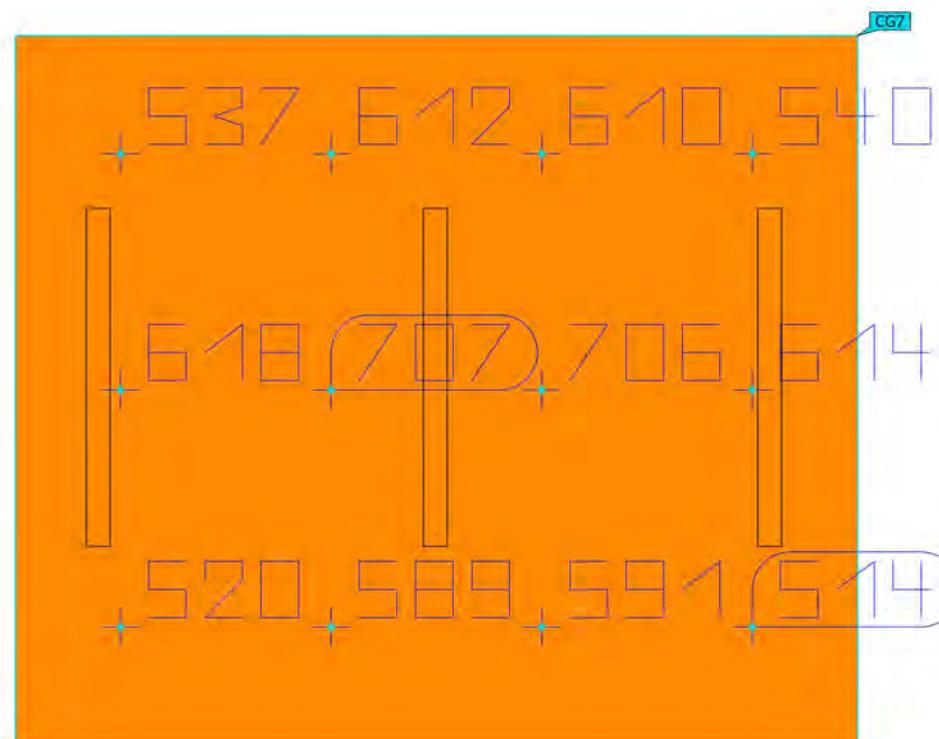
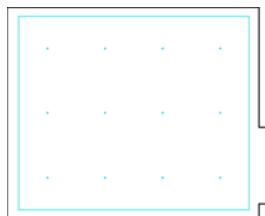
Utilisation profile: DIALux presetting (34.2 Standard (office))

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)

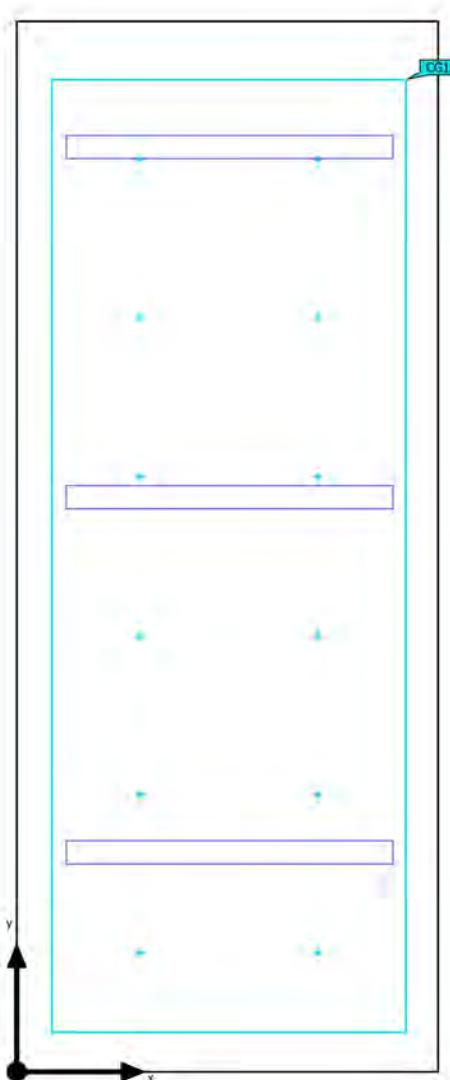
FTR CCTV



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.

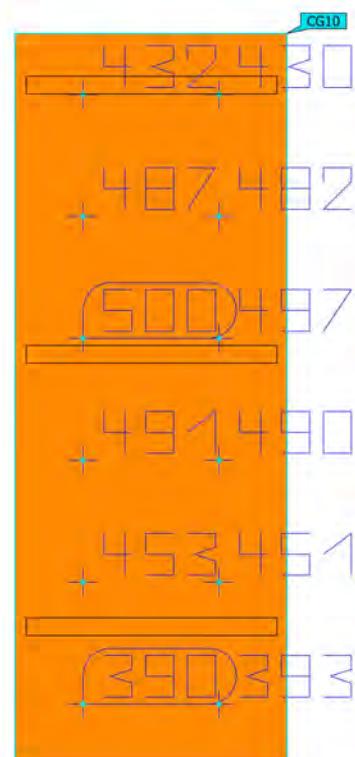
Utilisation profile: DIALux presetting (34.2 Standard (office))

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

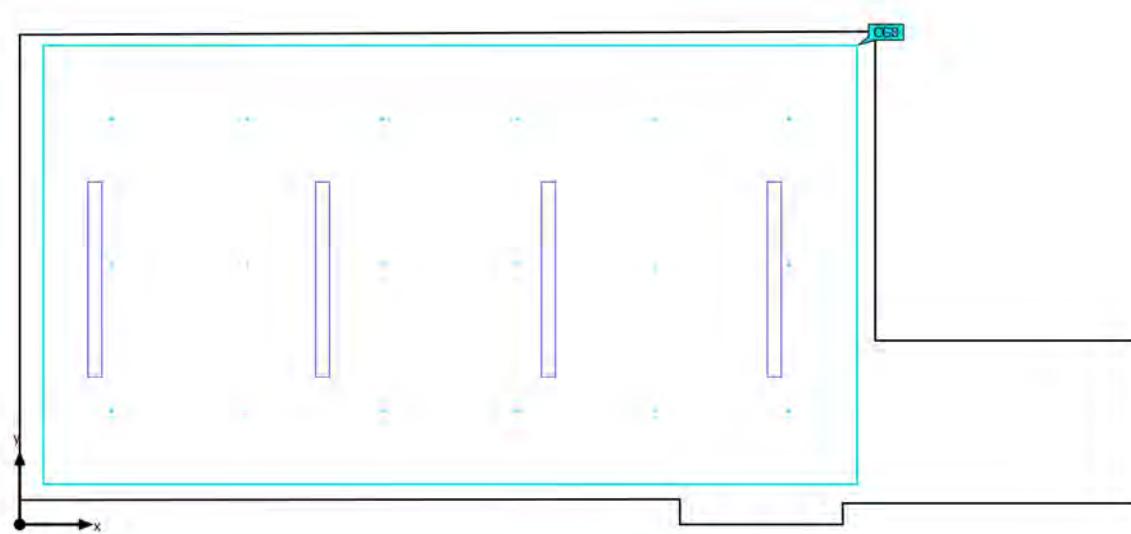


350

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.

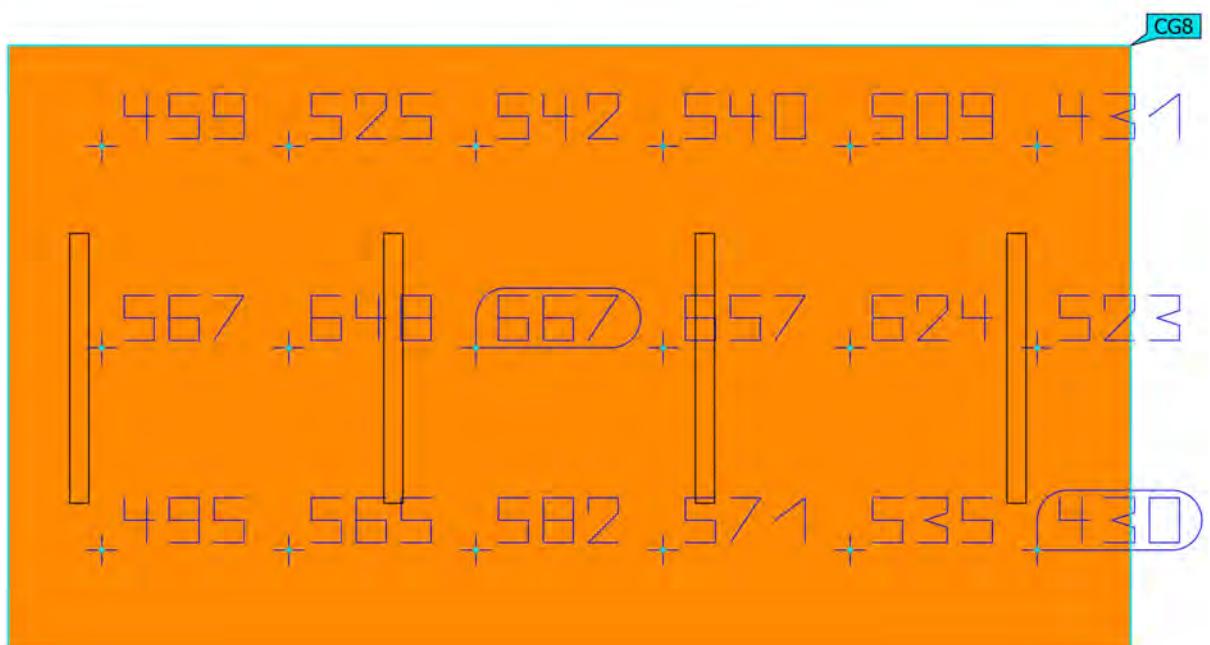
Utilisation profile: DIALux presetting (34.2 Standard (office))

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)

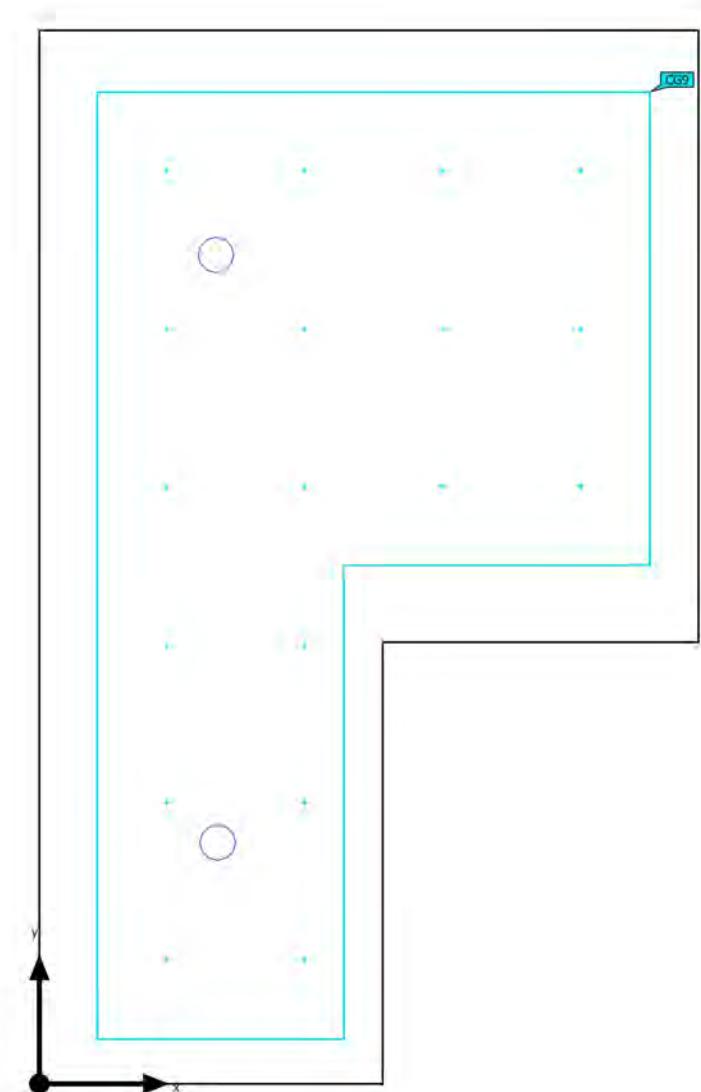
Main Electric Room



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.

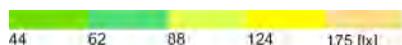
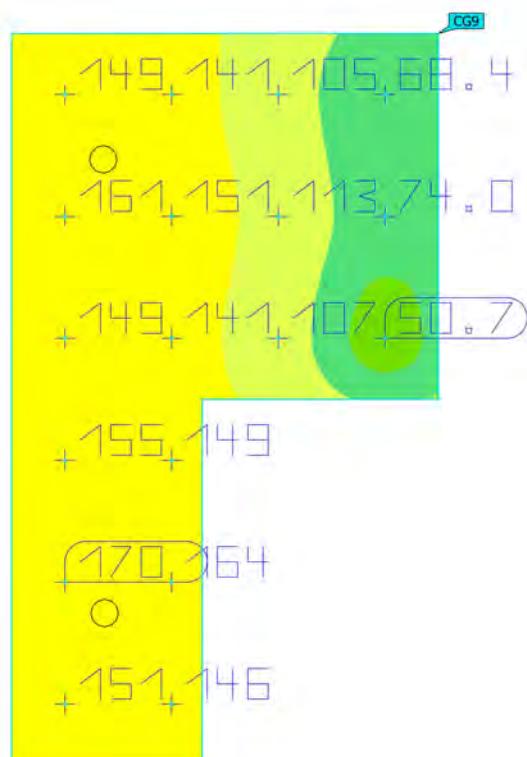
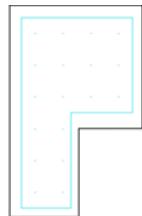
Utilisation profile: DIALux presetting (34.2 Standard (office))

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

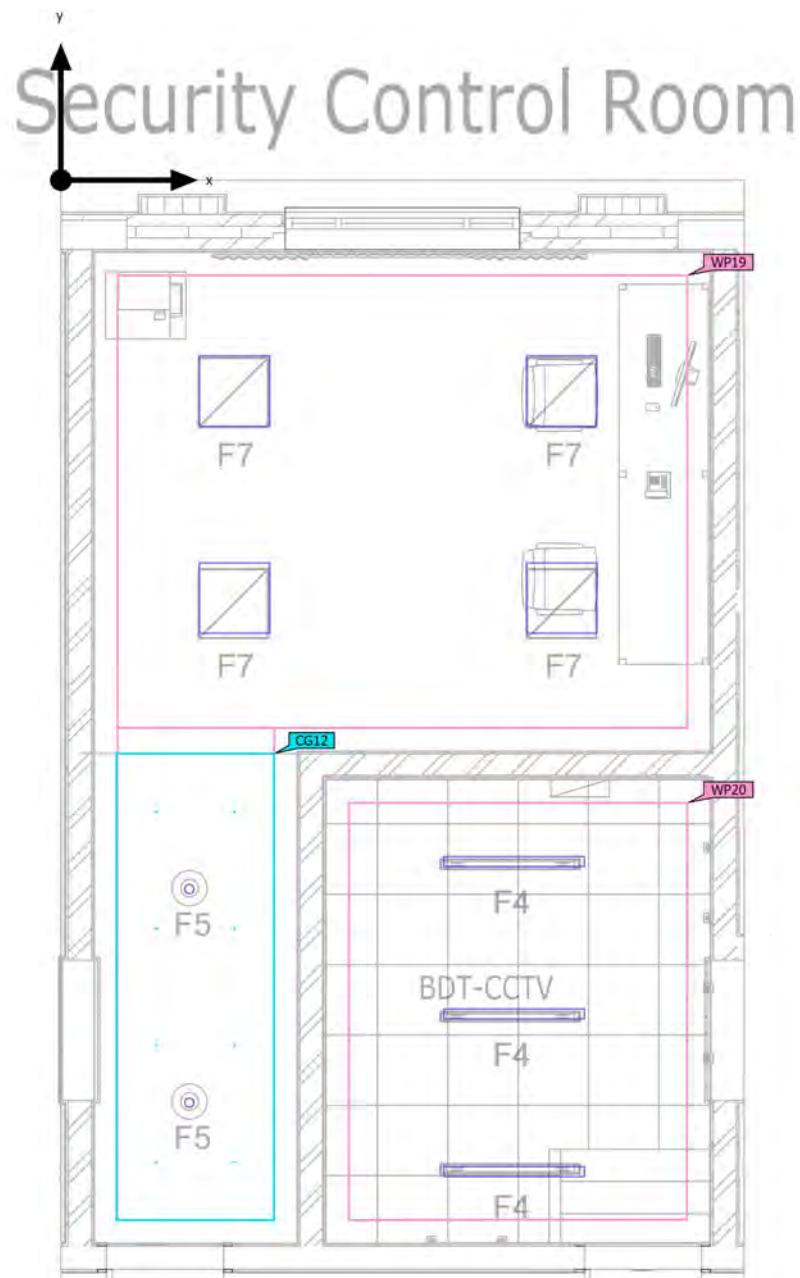


Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Service Room Corridor Perpendicular illuminance Height: 0.000 m	130 lx	50.7 lx	170 lx	0.39	0.30

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

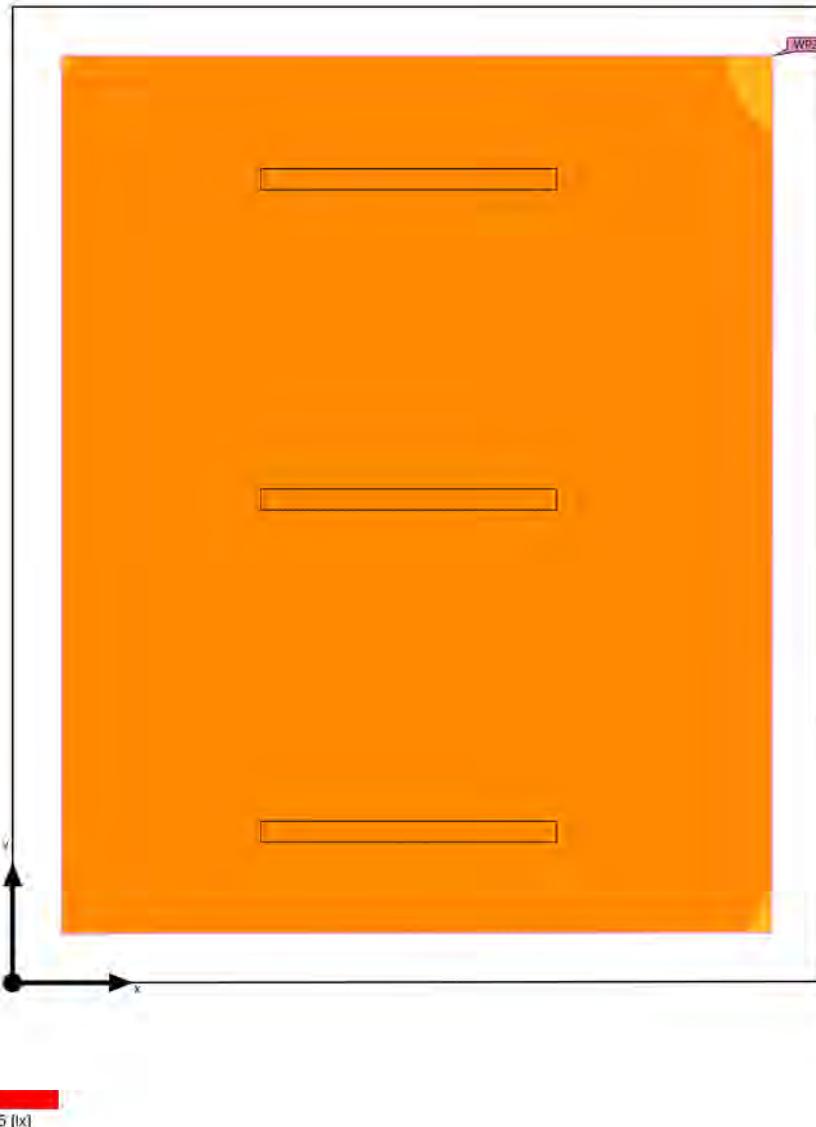
Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (BDT-CCTV) Perpendicular illuminance (adaptive) Height: 1.000 m, Wall zone: 0.200 m	528 lx	342 lx	675 lx	0.65	0.51
Working plane (Sub Security Control Room) Perpendicular illuminance (adaptive) Height: 1.000 m, Wall zone: 0.200 m	528 lx	293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

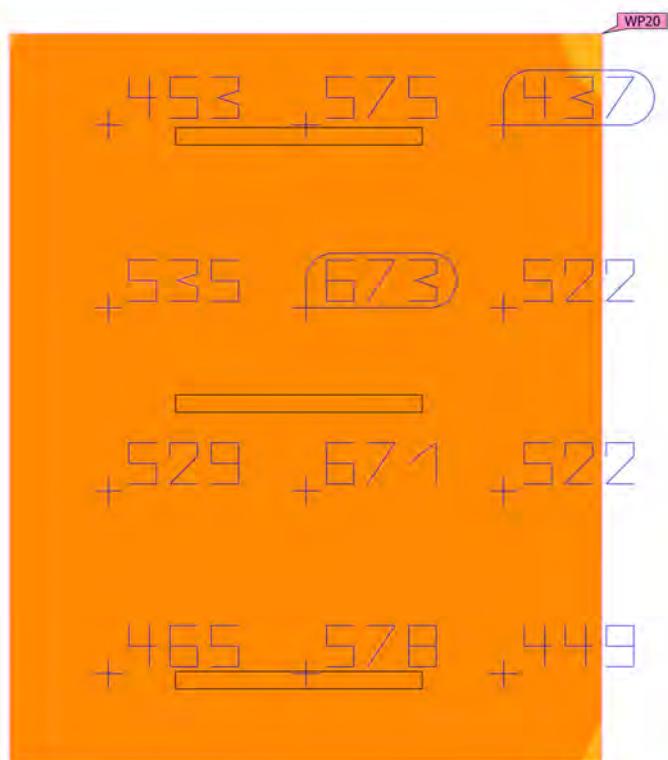
Utilisation profile: DIALux presetting (34.2 Standard (office))

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)

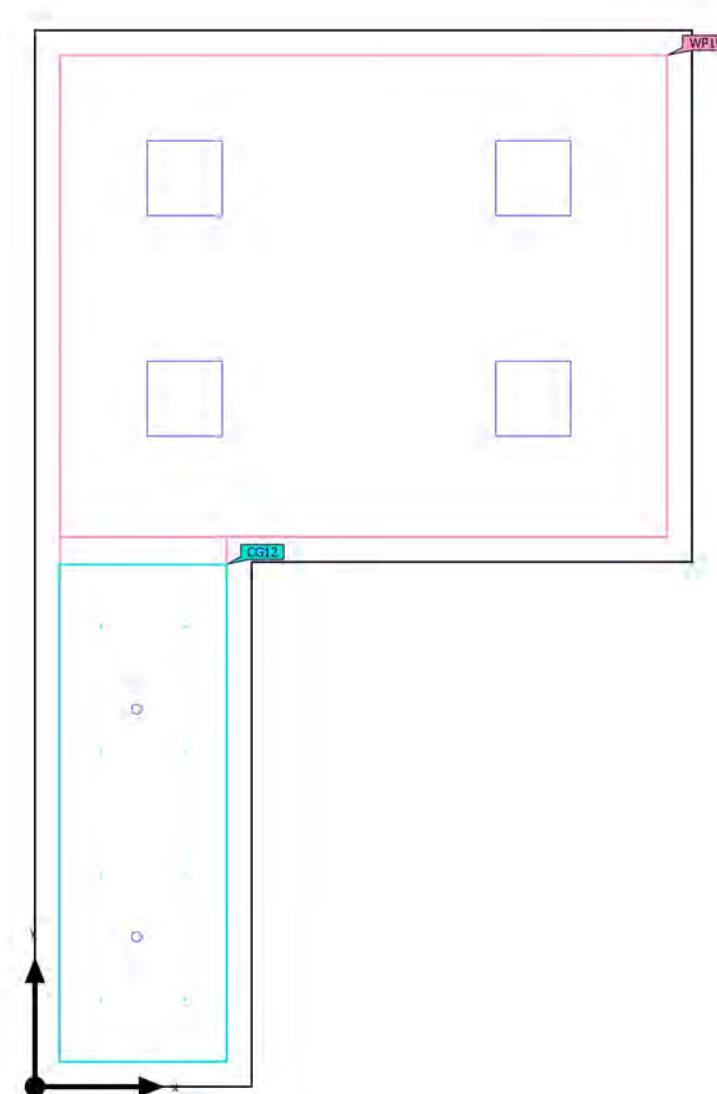


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Properties	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (BDT-CCTV)	528 lx	342 lx	675 lx	0.65	0.51
Perpendicular illuminance (adaptive)					
Height: 1.000 m, Wall zone: 0.200 m					WP20

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 Contrl 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.

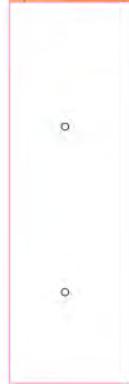
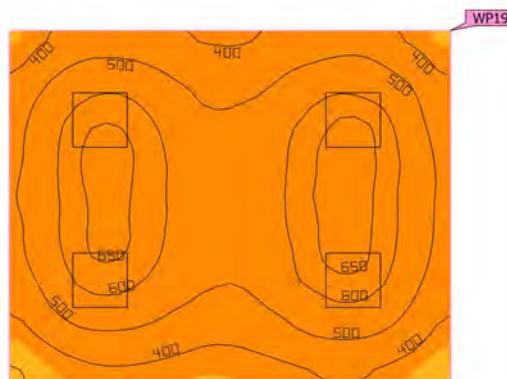
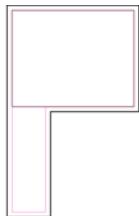
(2) Calculated using DIN:18599-4.

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)

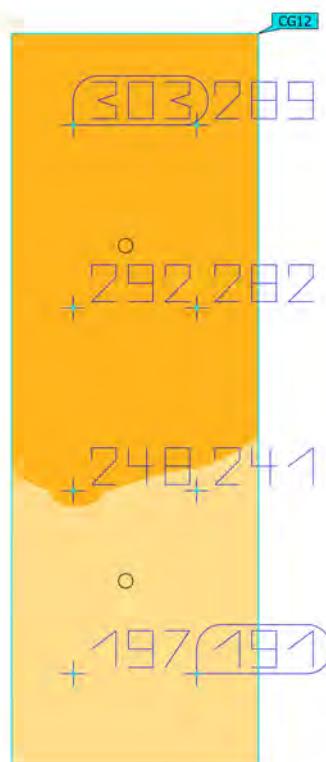
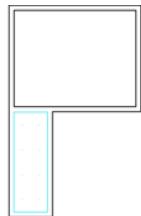


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Properties		E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Working plane (Sub Security Control Room) Perpendicular illuminance (adaptive) Height: 1.000 m, Wall zone: 0.200 m		528 lx	293 lx	678 lx	0.55	0.43

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

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

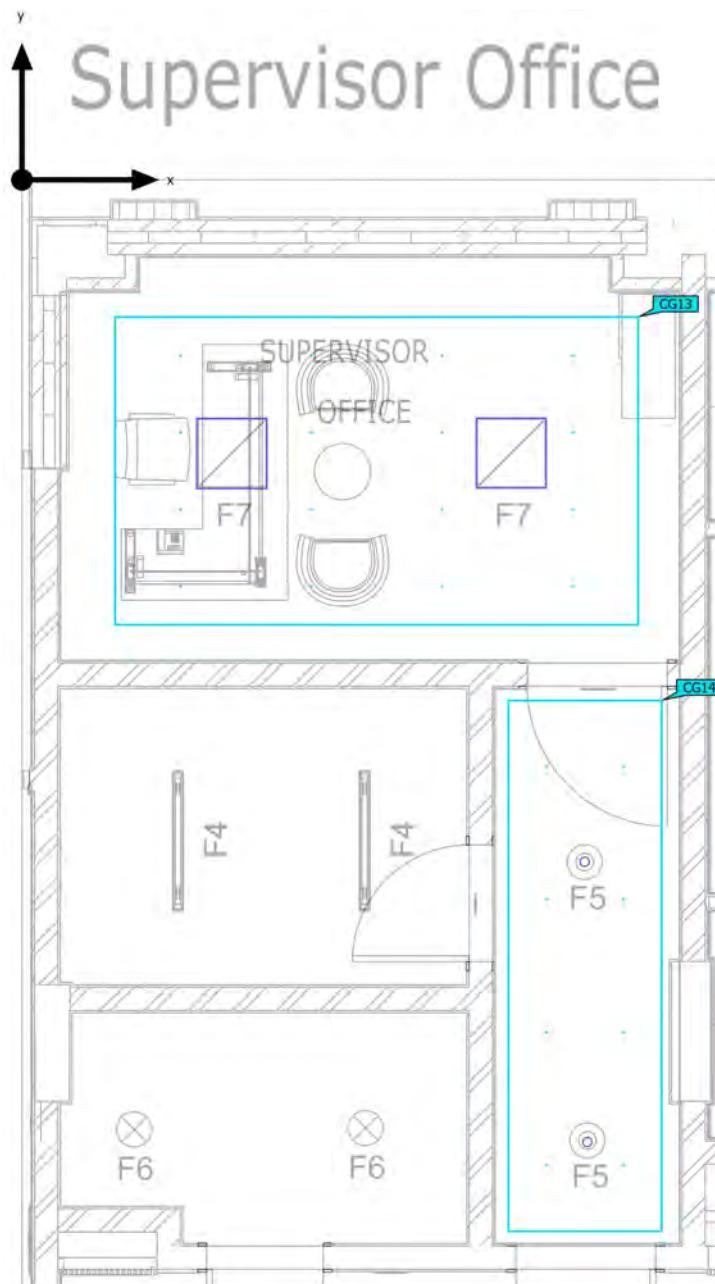


Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Passage Perpendicular illuminance Height: 0.000 m	256 lx	191 lx	303 lx	0.75	0.63

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

10- Supervisor Office
Description

10- Supervisor Office (Light scene 1)
Calculation objects

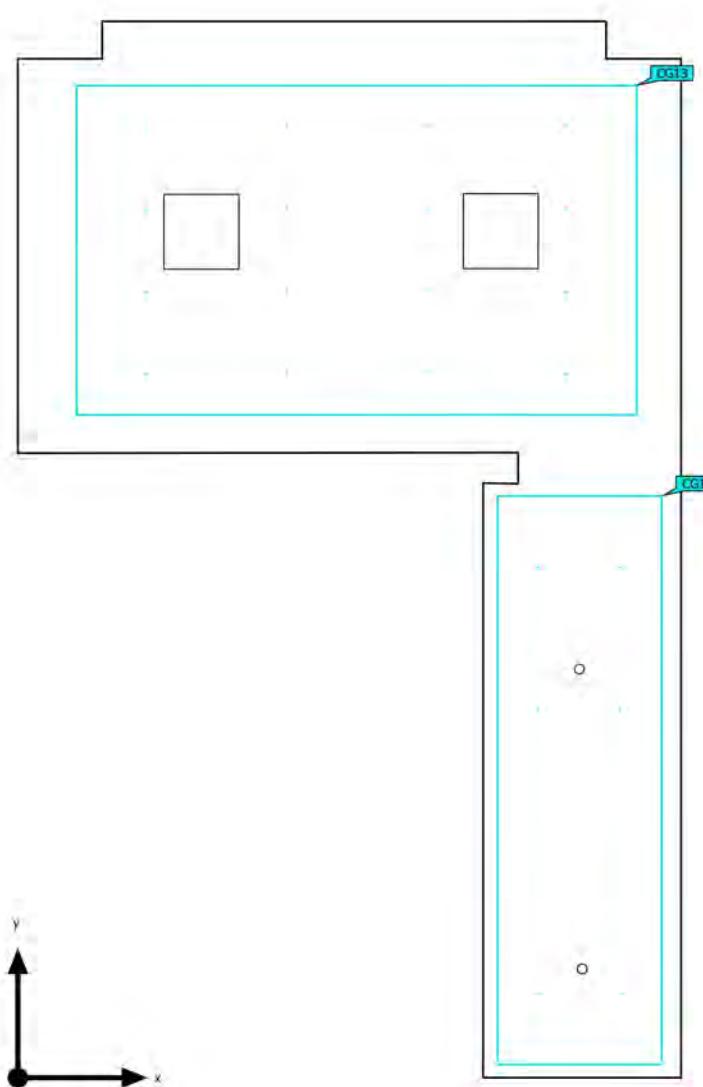


10- Supervisor Office (Light scene 1)
Calculation objects

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	

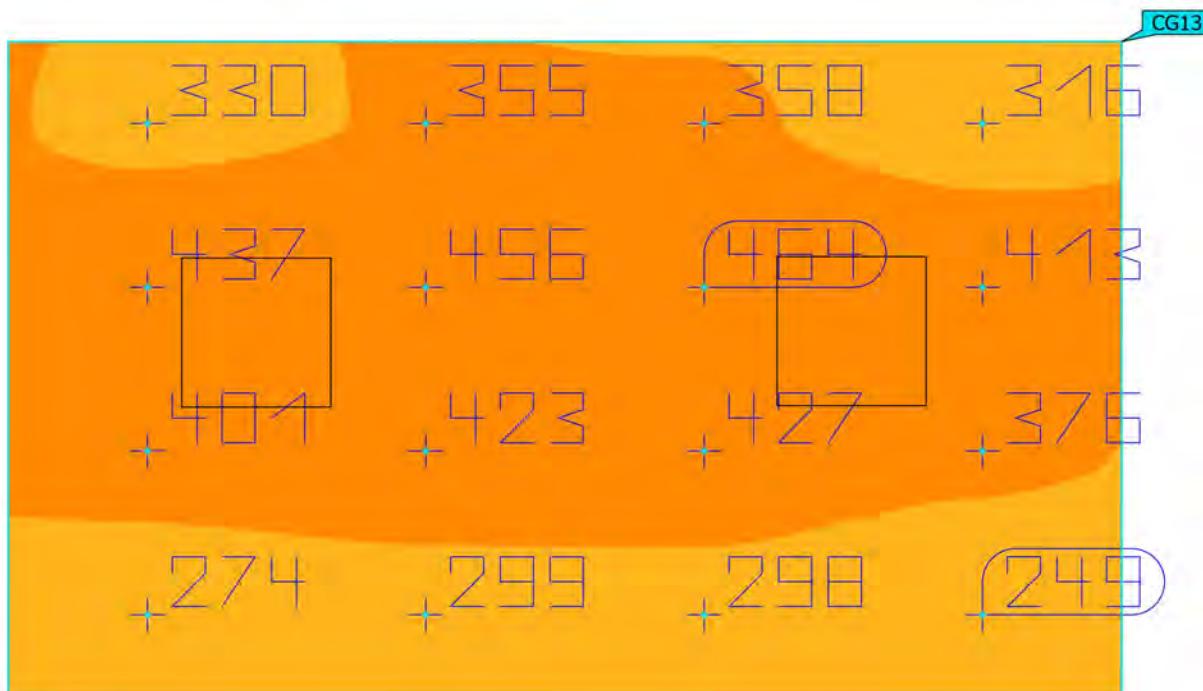
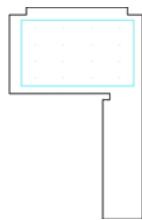
(2) Calculated using DIN:18599-4.

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

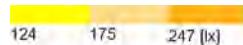
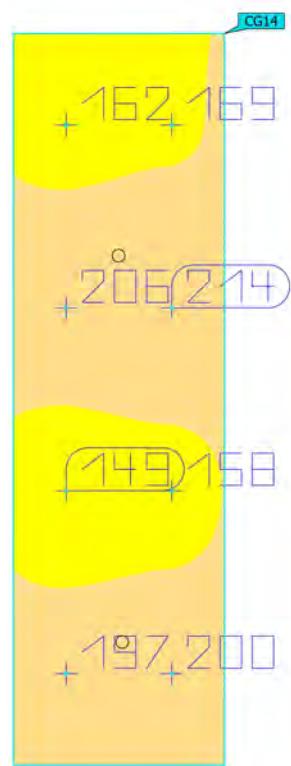
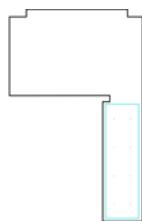


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Properties	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Supervisor Office Perpendicular illuminance Height: 1.000 m	367 lx	249 lx	464 lx	0.68	0.54

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	182 lx	149 lx	214 lx	0.82	0.70
Perpendicular illuminance					CG14
Height: 0.000 m					

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

Date

12/12/2025



B03-NCO Amenities

Lux Calculation Report

Table of Contents

Cover	1
Table of Contents	2

Site 1

Building 1

Description	8
-------------------	---

Site 1 - Building 1

Storey 1

Calculation objects / Light scene 1	9
---	---

Site 1 - Building 1 - Storey 1

Bakery & Pastry

Description	13
Summary / Light scene 1	14
Working plane (Bakery & Pastry) / Light scene 1 / Perpendicular illuminance	16
(adaptive)	

Site 1 - Building 1 - Storey 1

BDT-V/D Room

Description	17
Summary / Light scene 1	18
Working plane (BDT-V/D Room) / Light scene 1 / Perpendicular illuminance	20
(adaptive)	

Site 1 - Building 1 - Storey 1

Beverage Store

Description	21
Summary / Light scene 1	22
Working plane (Beverage Store) / Light scene 1 / Perpendicular illuminance	24
(adaptive)	

Site 1 - Building 1 - Storey 1

Corridor

Description	25
-------------------	----

Table of Contents

Summary / Light scene 1	26
Working plane (Corridor) / Light scene 1 / Perpendicular illuminance (adaptive)	28

Site 1 - Building 1 - Storey 1

Cutlery & Equipment Storage

Description	29
Summary / Light scene 1	30
Working plane (Cutlery & Equipment Storage) / Light scene 1 / Perpendicular illuminance (adaptive)	32

Site 1 - Building 1 - Storey 1

Dining Area

Description	33
Summary / Light scene 1	34
Working plane (Dining Area) / Light scene 1 / Perpendicular illuminance (adaptive)	36

Site 1 - Building 1 - Storey 1

Dining Area

Description	37
Summary / Light scene 1	38
Working plane (Dining Area) / Light scene 1 / Perpendicular illuminance (adaptive)	40

Site 1 - Building 1 - Storey 1

Dirty Route

Description	41
Summary / Light scene 1	42
Working plane (Dirty Route) / Light scene 1 / Perpendicular illuminance (adaptive)	44

Site 1 - Building 1 - Storey 1

Dry Grain Store

Description	45
Summary / Light scene 1	46

Table of Contents

Working plane (Dry Grain Store) / Light scene 1 / Perpendicular illuminance 48
 (adaptive)

Site 1 - Building 1 - Storey 1

Electrical Room

Description	49
Summary / Light scene 1	50
Working plane (Electrical Room) / Light scene 1 / Perpendicular illuminance (adaptive)	52

Site 1 - Building 1 - Storey 1

F&V Preparation Area

Description	53
Summary / Light scene 1	54
Working plane (F&V Preparation Area) / Light scene 1 / Perpendicular illuminance (adaptive)	56

Site 1 - Building 1 - Storey 1

Fish Preparation Area

Description	57
Summary / Light scene 1	58
Working plane (Fish Preparation Area) / Light scene 1 / Perpendicular illuminance (adaptive)	60

Site 1 - Building 1 - Storey 1

FTR-CCTV

Description	61
Summary / Light scene 1	62
Working plane (FTR-CCTV) / Light scene 1 / Perpendicular illuminance (adaptive)	64

Site 1 - Building 1 - Storey 1

Hot Kitchen Bulk Cooking

Description	65
Summary / Light scene 1	66
Working plane (Hot Kitchen Bulk Cooking) / Light scene 1 / Perpendicular illuminance (adaptive)	68

Table of Contents

Site 1 - Building 1 - Storey 1

Ice Bank

Description	69
Summary / Light scene 1	70
Working plane (Ice Bank) / Light scene 1 / Perpendicular illuminance (adaptive)	72

Site 1 - Building 1 - Storey 1

Main Electrical Room

Description	73
Summary / Light scene 1	74
Working plane (Main Electrical Room) / Light scene 1 / Perpendicular illuminance (adaptive)	76

Site 1 - Building 1 - Storey 1

Meat Preparation Area

Description	77
Summary / Light scene 1	78
Working plane (Meat Preparation Area) / Light scene 1 / Perpendicular illuminance (adaptive)	80

Site 1 - Building 1 - Storey 1

NCO Gym

Description	81
Summary / Light scene 1	82
Working plane (NCO Gym) / Light scene 1 / Perpendicular illuminance (adaptive)	84

Site 1 - Building 1 - Storey 1

NCO Lounge

Description	85
Summary / Light scene 1	86
Working plane (NCO Lounge) / Light scene 1 / Perpendicular illuminance (adaptive)	88

Site 1 - Building 1 - Storey 1

NCO Lounge & Gym Entrance

Description	89
-------------------	----

Table of Contents

Summary / Light scene 1	90
Working plane (NCO Lounge & Gym Entrance) / Light scene 1 / Perpendicular illuminance (adaptive)	92

Site 1 - Building 1 - Storey 1

Poultry Preparation Area

Description	93
Summary / Light scene 1	94
Working plane (Poultry Preparation Area) / Light scene 1 / Perpendicular illuminance (adaptive)	96

Site 1 - Building 1 - Storey 1

Preparation Room

Description	97
Summary / Light scene 1	98
Working plane (Preparation Room) / Light scene 1 / Perpendicular illuminance (adaptive)	100

Site 1 - Building 1 - Storey 1

Receiving & De-Boxing Area

Description	101
Summary / Light scene 1	102
Working plane (Receiving & De-Boxing Area) / Light scene 1 / Perpendicular illuminance (adaptive)	104

Site 1 - Building 1 - Storey 1

Security Control Room

Description	105
Summary / Light scene 1	106
Working plane (Security Control Room) / Light scene 1 / Perpendicular illuminance (adaptive)	108

Site 1 - Building 1 - Storey 1

Security Room

Description	109
Summary / Light scene 1	110

Table of Contents

Working plane (Security Room) / Light scene 1 / Perpendicular illuminance 112
(adaptive)

Site 1 - Building 1 - Storey 1

Toilet

Description 113
Summary / Light scene 1 114
Working plane (Toilet) / Light scene 1 / Perpendicular illuminance (adaptive) 116

Site 1 - Building 1 - Storey 1

UPS Room

Description 117
Summary / Light scene 1 118
Working plane (UPS Room) / Light scene 1 / Perpendicular illuminance (adaptive) 120

Site 1 - Building 1 - Storey 1

Wash Area

Description 121
Summary / Light scene 1 122
Working plane (Wash Area) / Light scene 1 / Perpendicular illuminance 124
(adaptive)

Building 1

Description

Building 1 · Storey 1 (Light scene 1)

Calculation objects



Building 1 · Storey 1 (Light scene 1)

Calculation objects

Working planes

Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Dining Area) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	382 lx	131 lx	594 lx	0.34	0.22	WP1
Working plane (Preparation Room) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	356 lx	184 lx	427 lx	0.52	0.43	WP2
Working plane (NCO Lounge) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.500 m	172 lx	59.5 lx	211 lx	0.35	0.28	WP3
Working plane (Dirty Route) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	247 lx	117 lx	285 lx	0.47	0.41	WP4
Working plane (Hot Kitchen Bulk Cooking) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	410 lx	234 lx	480 lx	0.57	0.49	WP5
Working plane (Bakery & Pastry) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	469 lx	272 lx	562 lx	0.58	0.48	WP6
Working plane (Receiving & De-Boxing Area) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	261 lx	155 lx	316 lx	0.59	0.49	WP7
Working plane (Electrical Room) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	374 lx	305 lx	425 lx	0.82	0.72	WP8
Working plane (Dry Grain Store) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	374 lx	237 lx	434 lx	0.63	0.55	WP9
Working plane (Fish Preparation Area) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	292 lx	236 lx	331 lx	0.81	0.71	WP10
Working plane (Meat Preparation Area) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	261 lx	200 lx	307 lx	0.77	0.65	WP11

Building 1 · Storey 1 (Light scene 1)

Calculation objects

Working plane (Poultry Preparation Area) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	260 lx	197 lx	306 lx	0.76	0.64	WP12
Working plane (F&V Preparation Area) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	235 lx	163 lx	291 lx	0.69	0.56	WP13
Working plane (Ice Bank) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	209 lx	162 lx	254 lx	0.78	0.64	WP14
Working plane (Beverage Store) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	226 lx	130 lx	296 lx	0.58	0.44	WP15
Working plane (Cutlery & Equipment Storage) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	520 lx	371 lx	620 lx	0.71	0.60	WP16
Working plane (UPS Room) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	239 lx	181 lx	280 lx	0.76	0.65	WP17
Working plane (Security Control Room) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	237 lx	195 lx	276 lx	0.82	0.71	WP18
Working plane (BDT-V/D Room) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	311 lx	240 lx	369 lx	0.77	0.65	WP19
Working plane (Main Electrical Room) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	350 lx	253 lx	421 lx	0.72	0.60	WP20
Working plane (Corridor) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	81.3 lx	28.2 lx	130 lx	0.35	0.22	WP21
Working plane (Wash Area) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	127 lx	49.7 lx	180 lx	0.39	0.28	WP22
Working plane (Security Room) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	199 lx	96.4 lx	257 lx	0.48	0.38	WP23

Building 1 · Storey 1 (Light scene 1)

Calculation objects

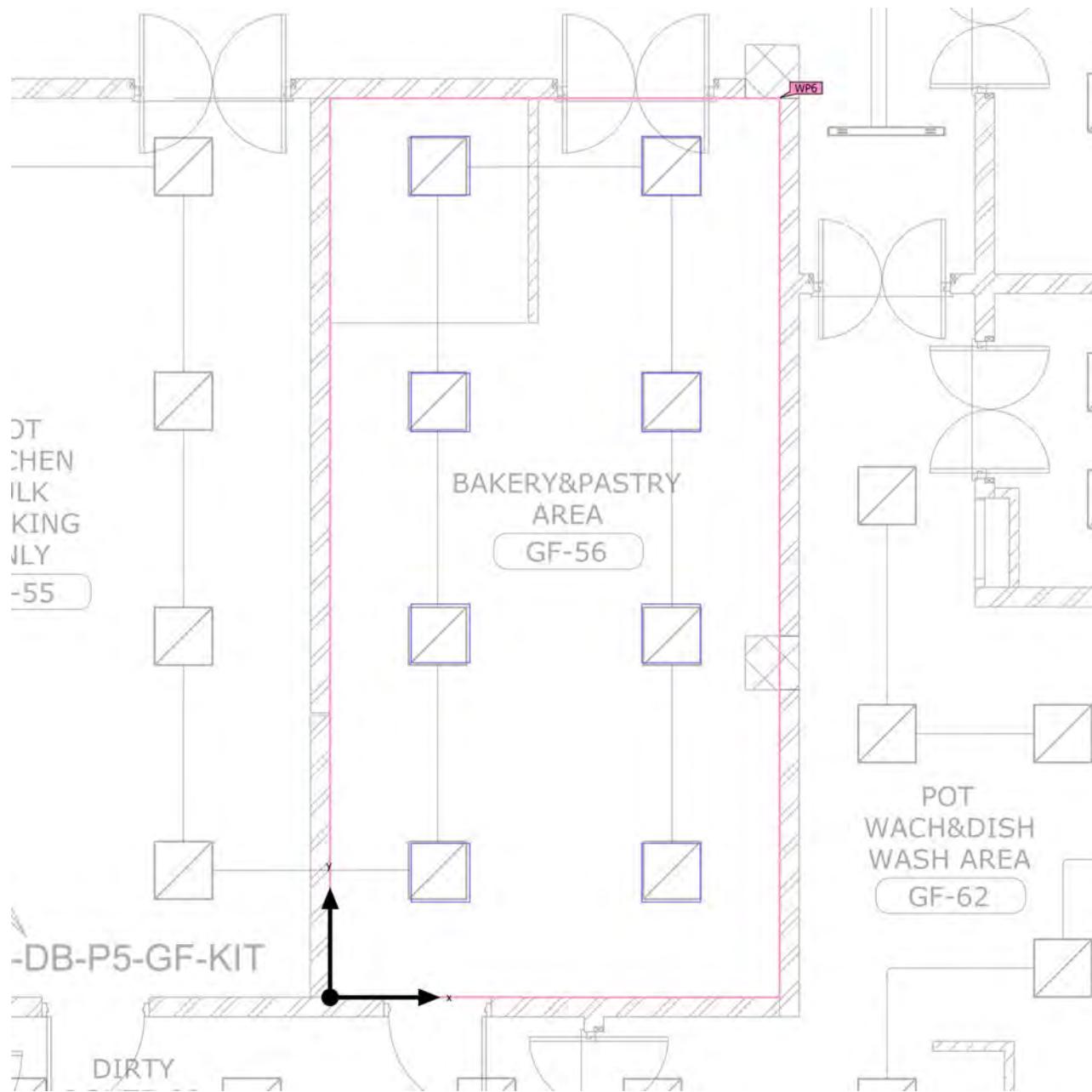
Working plane (FTR-CCTV) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	349 lx	278 lx	416 lx	0.80	0.67	WP24
Working plane (NCO Lounge & Gym Entrance) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	143 lx	13.2 lx	219 lx	0.092	0.060	WP25
Working plane (Dining Area) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	320 lx	131 lx	412 lx	0.41	0.32	WP26
Working plane (NCO Gym) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	340 lx	205 lx	427 lx	0.60	0.48	WP27
Working plane (Toilet) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	153 lx	80.9 lx	229 lx	0.53	0.35	WP28

Building 1 · Storey 1 · Bakery & Pastry

Description

Building 1 · Storey 1 · Bakery & Pastry (Light scene 1)

Summary



Ground area	42.32 m ²
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.500 m
Mounting height	3.500 m
Height Working plane	0.800 m
Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Bakery & Pastry (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	469 lx
	$U_o (g_1)$	0.58
Energy estimation ⁽²⁾	Consumption	950 kWh/a

(1) Based on a rectangular space of 9.200 m x 4.600 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

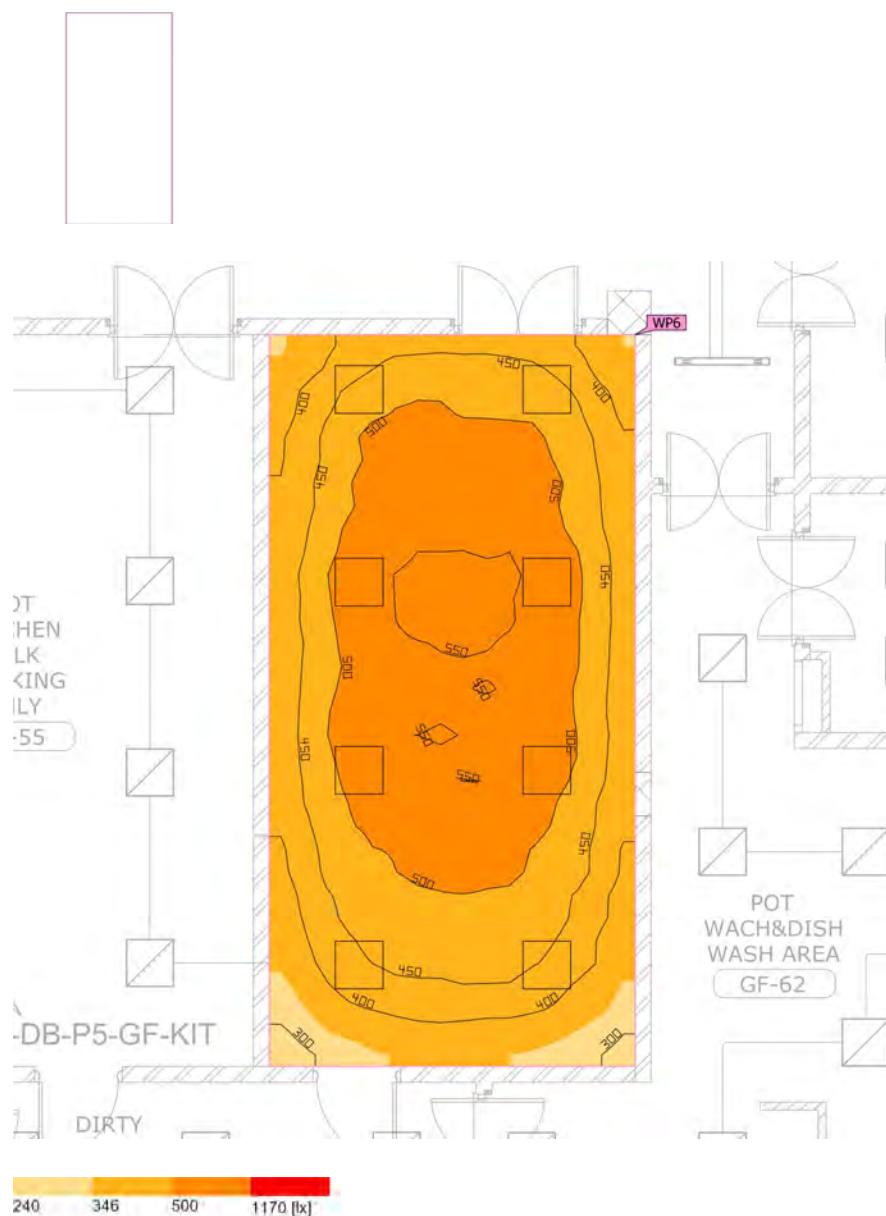
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
8	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	-	48.0 W	4800 lm	100.0 lm/W

Building 1 · Storey 1 · Bakery & Pastry (Light scene 1)

Working plane (Bakery & Pastry)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Bakery & Pastry)	469 lx	272 lx	562 lx	0.58	0.48	WP6
Perpendicular illuminance (adaptive)						
Height: 0.800 m, Wall zone: 0.000 m						

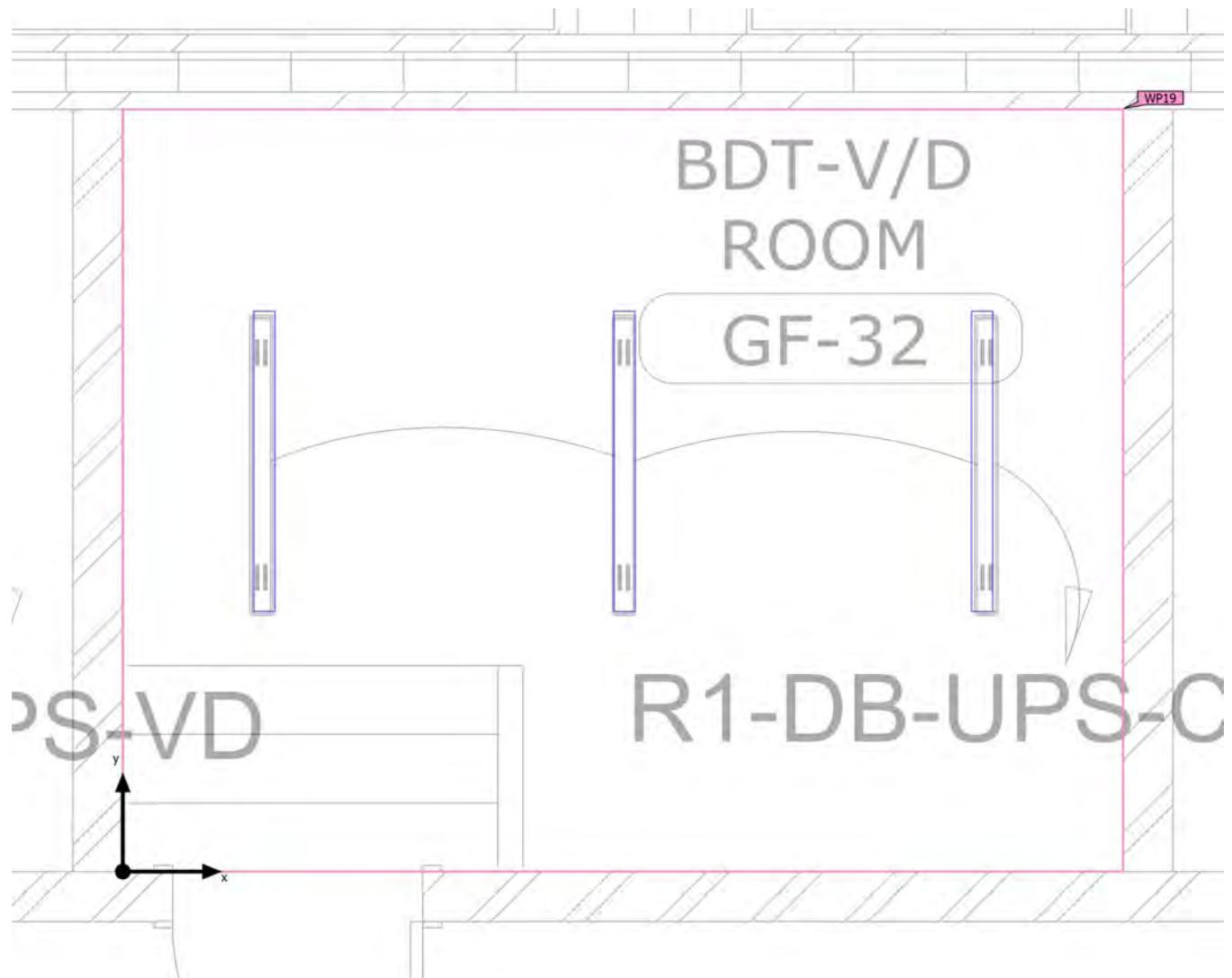
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · BDT-V/D Room

Description

Building 1 · Storey 1 · BDT-V/D Room (Light scene 1)

Summary



Ground area	12.20 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.000 m
		Wall zone Working plane	0.000 m

Building 1 · Storey 1 · BDT-V/D Room (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	311 lx
	$U_o (g_1)$	0.77
Energy estimation ⁽²⁾	Consumption	293 kWh/a

(1) Based on a rectangular space of 3.050 m x 4.000 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

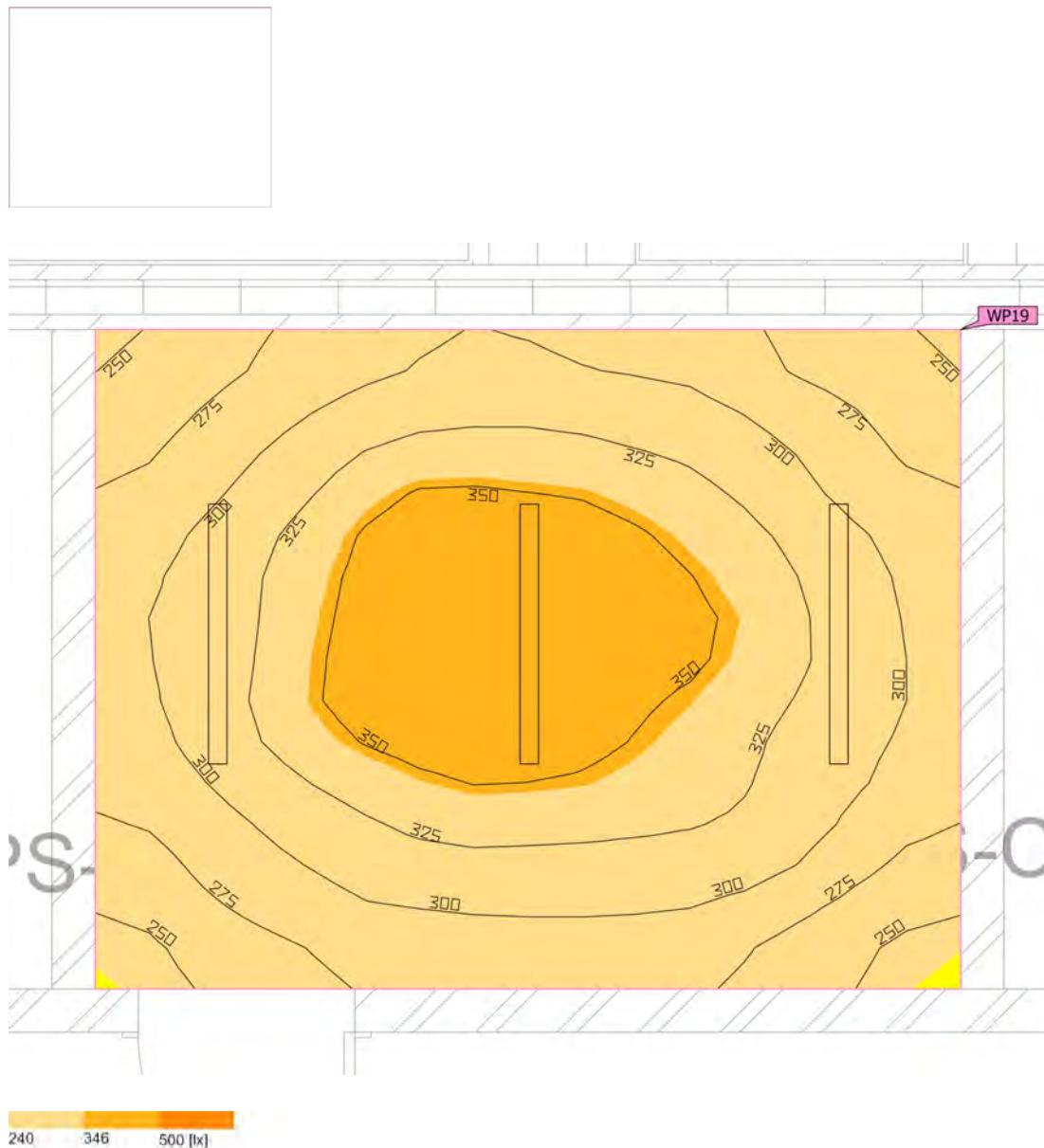
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
3	FRATER	WPCA-040	WEATHERPROOF CALIBER	-	39.5 W	4952 lm	125.4 lm/W

Building 1 · Storey 1 · BDT-V/D Room (Light scene 1)

Working plane (BDT-V/D Room)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (BDT-V/D Room) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	311 lx	240 lx	369 lx	0.77	0.65	WP19

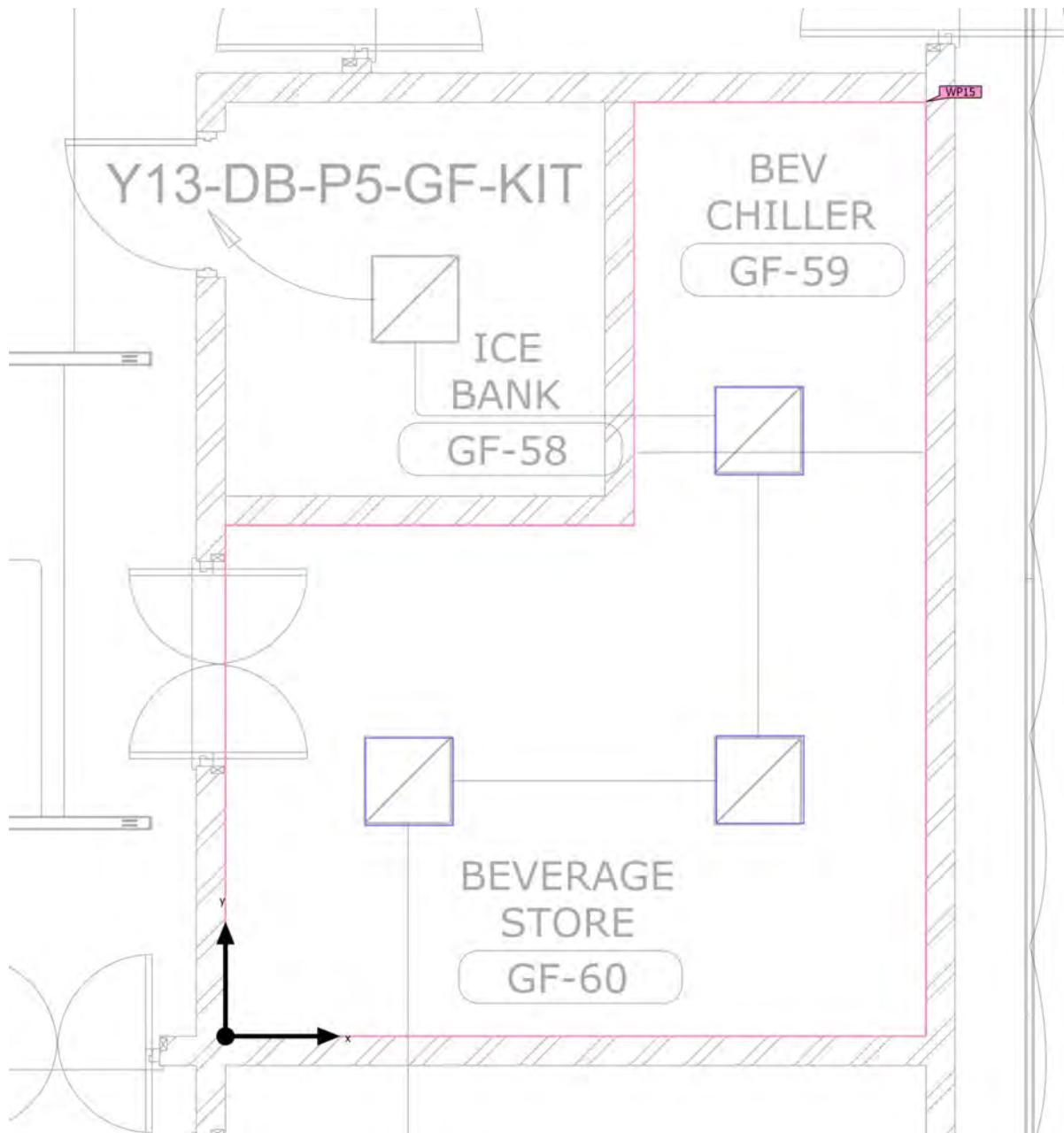
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Beverage Store

Description

Building 1 · Storey 1 · Beverage Store (Light scene 1)

Summary



Ground area	22.60 m ²
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.500 m
Mounting height	3.500 m
Height Working plane	0.000 m
Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Beverage Store (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	226 lx
	$U_o (g_1)$	0.58
Energy estimation ⁽²⁾	Consumption	356 kWh/a

(1) Based on a rectangular space of 6.400 m x 4.800 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

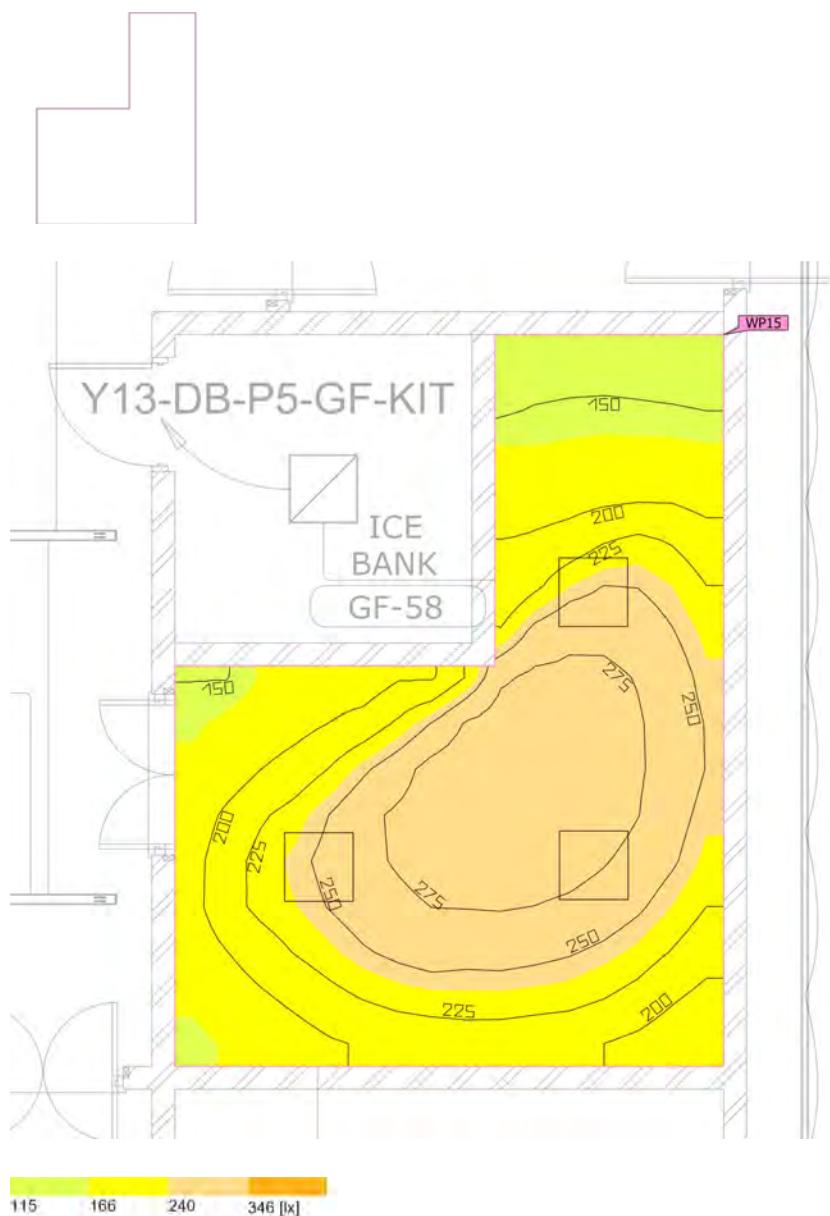
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
3	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	-	48.0 W	4800 lm	100.0 lm/W

Building 1 · Storey 1 · Beverage Store (Light scene 1)

Working plane (Beverage Store)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Beverage Store)	226 lx	130 lx	296 lx	0.58	0.44	WP15
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						

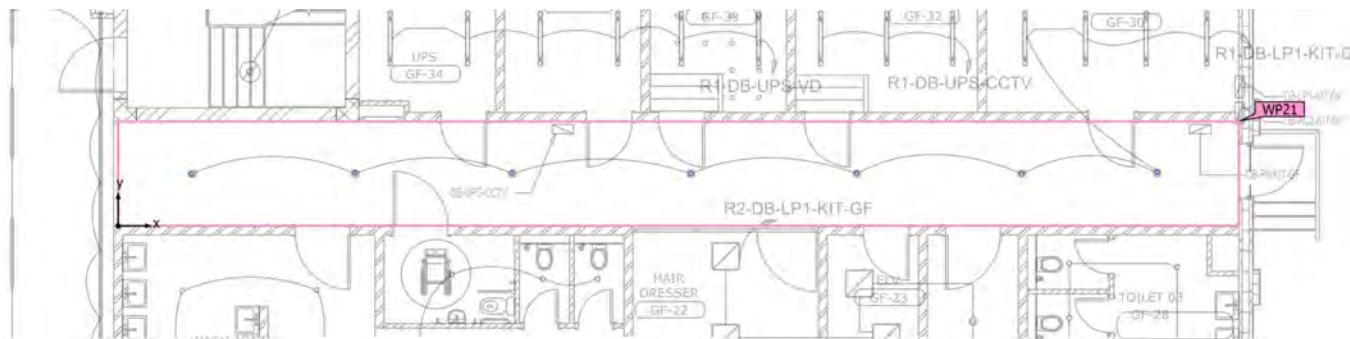
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Corridor

Description

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

Summary



Ground area	56.70 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.000 m
		Wall zone Working plane	0.000 m

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

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	81.3 lx
	$U_o (g_1)$	0.35
Energy estimation ⁽²⁾	Consumption	191 kWh/a

(1) Based on a rectangular space of 2.300 m x 24.650 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

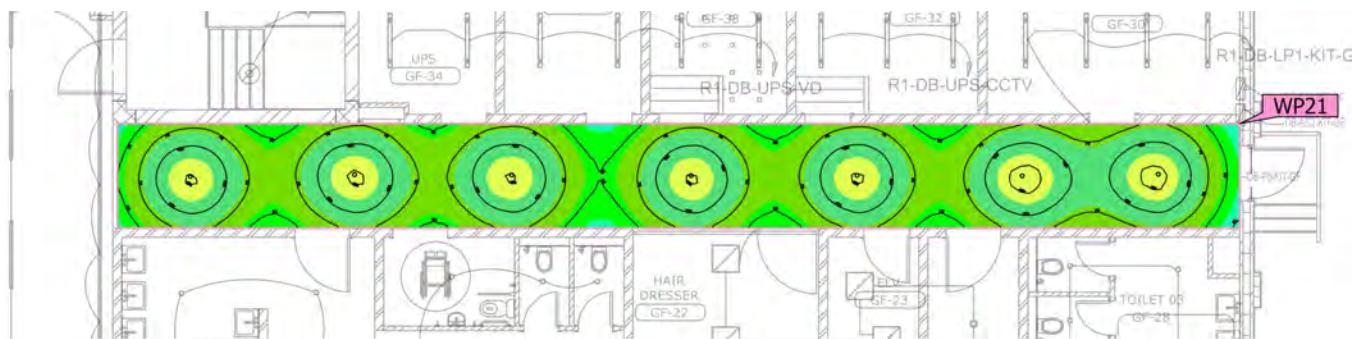
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
7	FRATER	DLG5-010	COB GEMINI 05	-	11.0 W	1066 lm	96.9 lm/W

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

Working plane (Corridor)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Corridor)	81.3 lx	28.2 lx	130 lx	0.35	0.22	WP21
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						

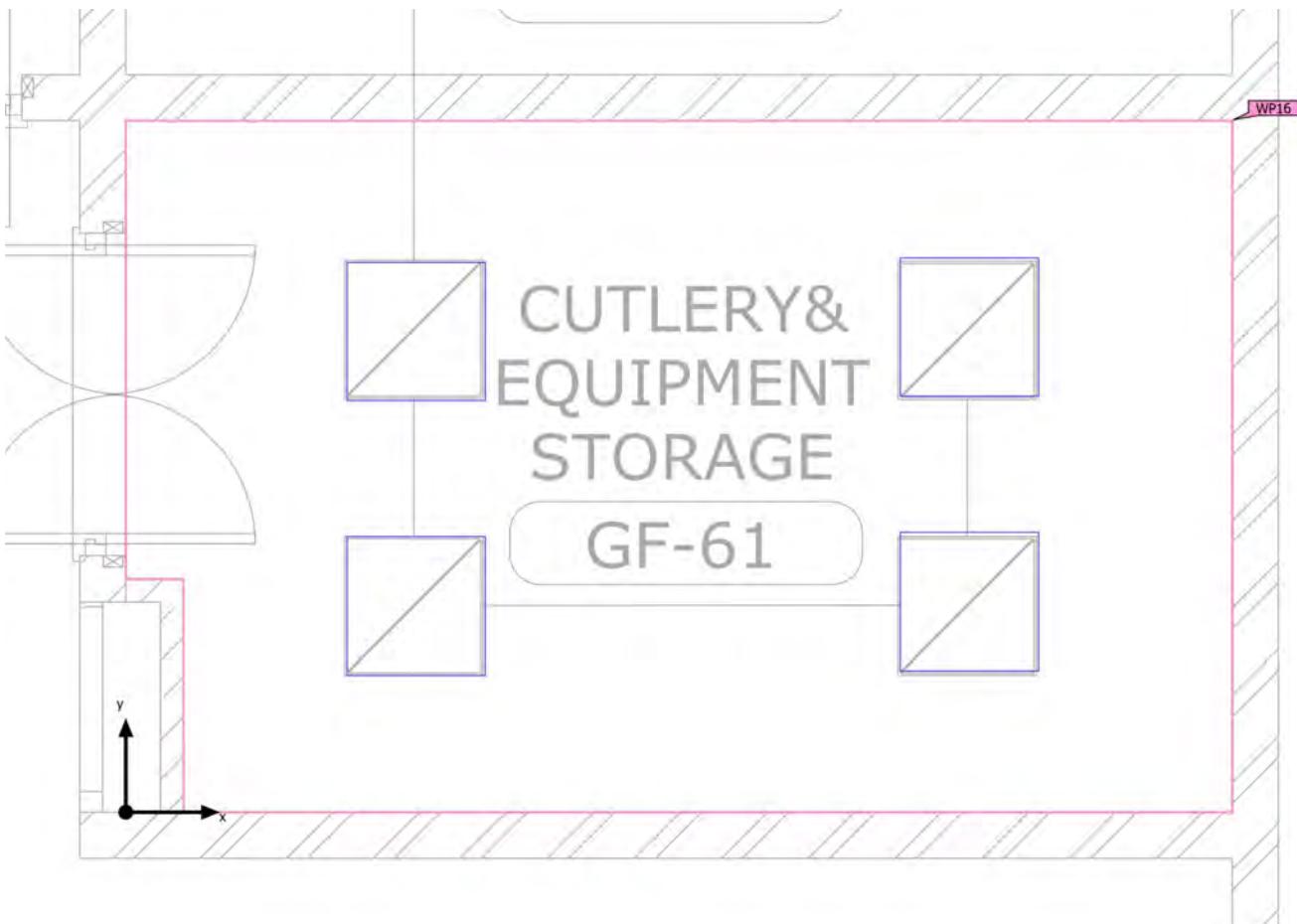
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Cutlery & Equipment Storage

Description

Building 1 · Storey 1 · Cutlery & Equipment Storage (Light scene 1)

Summary



Ground area	14.15 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.800 m
		Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Cutlery & Equipment Storage (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	520 lx
	$U_o (g_1)$	0.71
Energy estimation ⁽²⁾	Consumption	475 kWh/a

(1) Based on a rectangular space of 3.000 m x 4.800 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

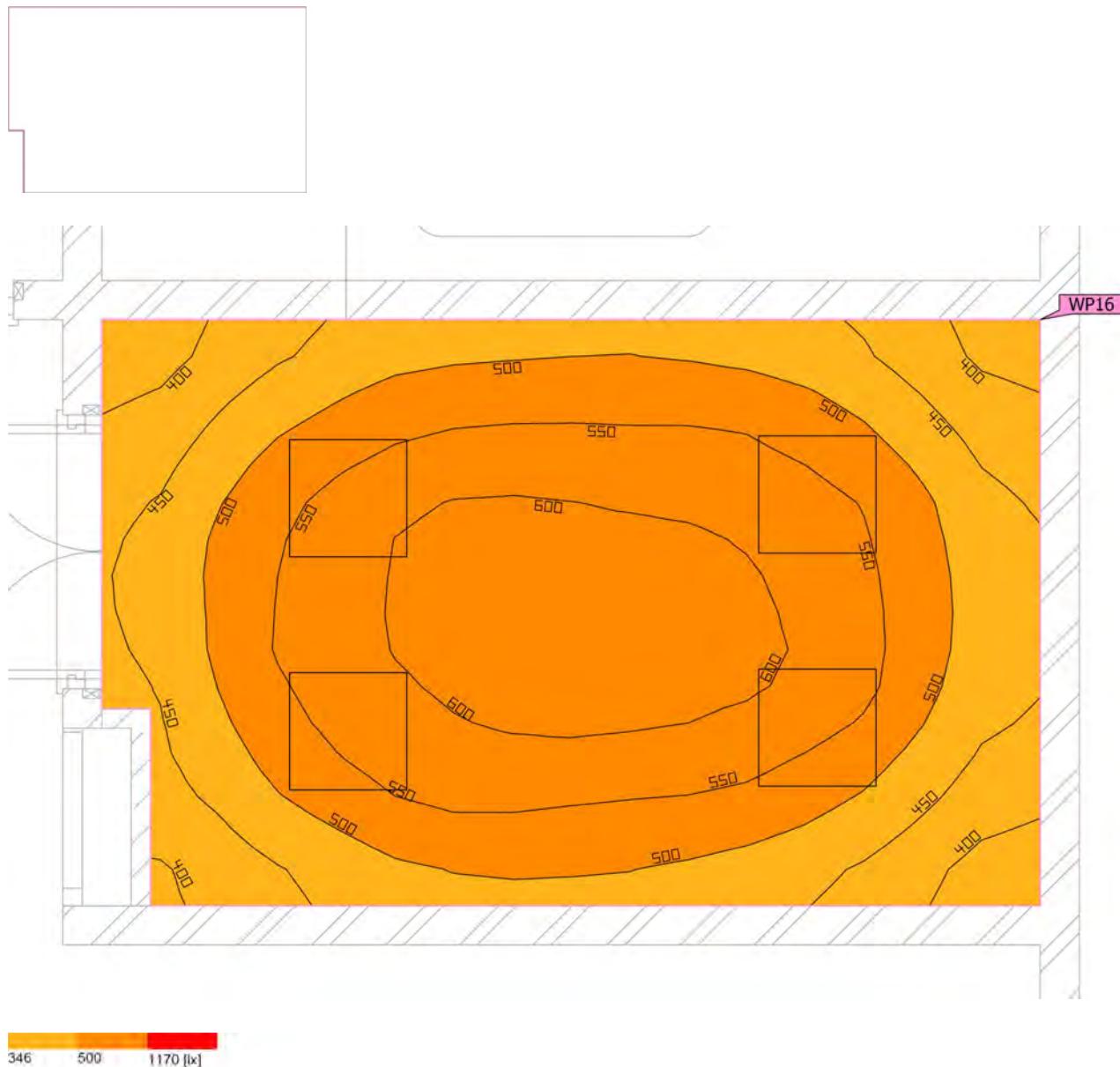
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
4	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	-	48.0 W	4800 lm	100.0 lm/W

Building 1 · Storey 1 · Cutlery & Equipment Storage (Light scene 1)

Working plane (Cutlery & Equipment Storage)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Cutlery & Equipment Storage)	520 lx	371 lx	620 lx	0.71	0.60	WP16
Perpendicular illuminance (adaptive)						
Height: 0.800 m, Wall zone: 0.000 m						

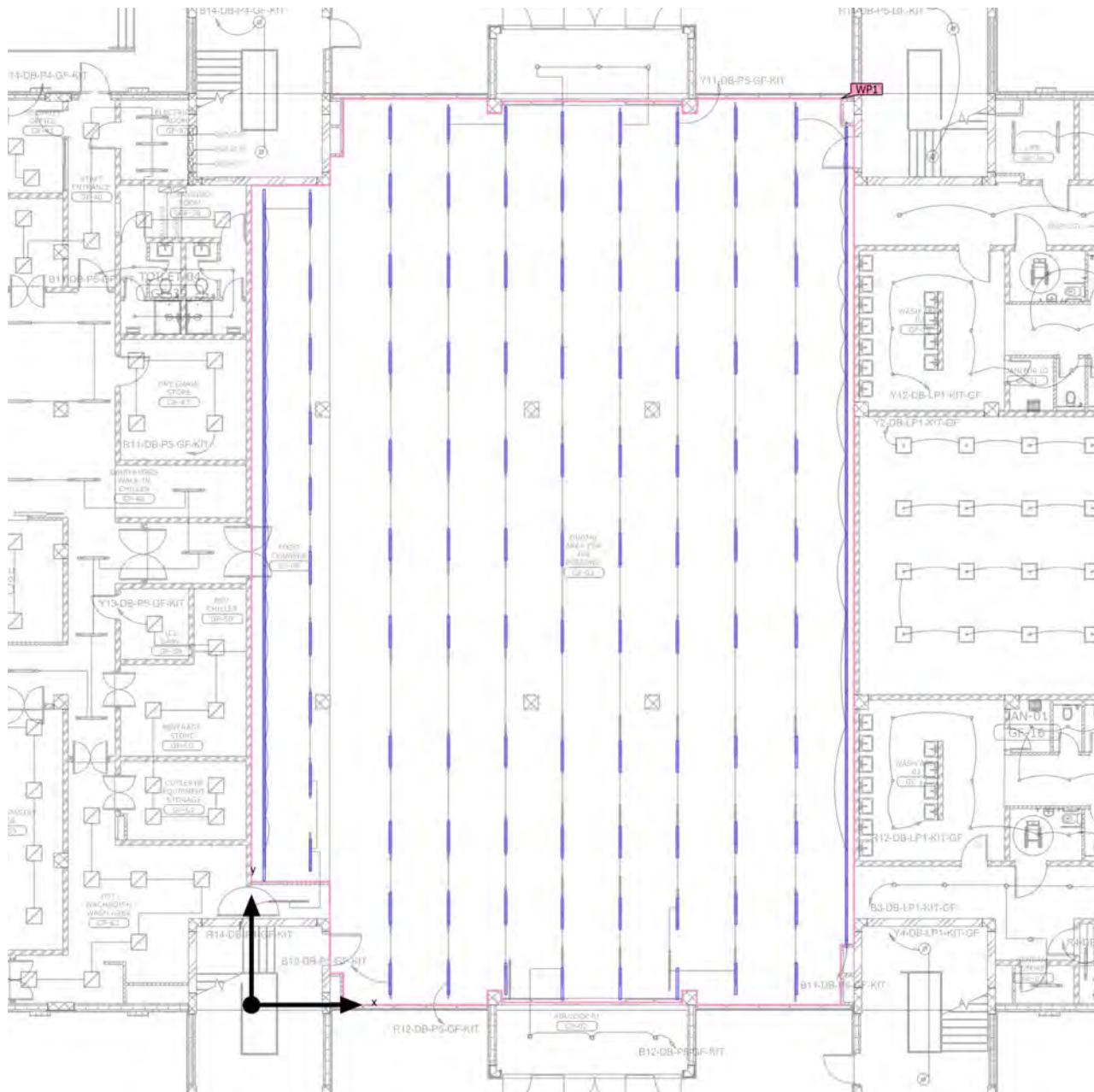
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Dining Area

Description

Building 1 · Storey 1 · Dining Area (Light scene 1)

Summary



Ground area	765.88 m ²
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.500 m
Mounting height	3.500 m
Height Working plane	0.800 m
Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Dining Area (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	382 lx
	$U_o (g_1)$	0.34
Energy estimation ⁽²⁾	Consumption	10841 kWh/a

(1) Based on a rectangular space of 34.600 m x 23.000 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

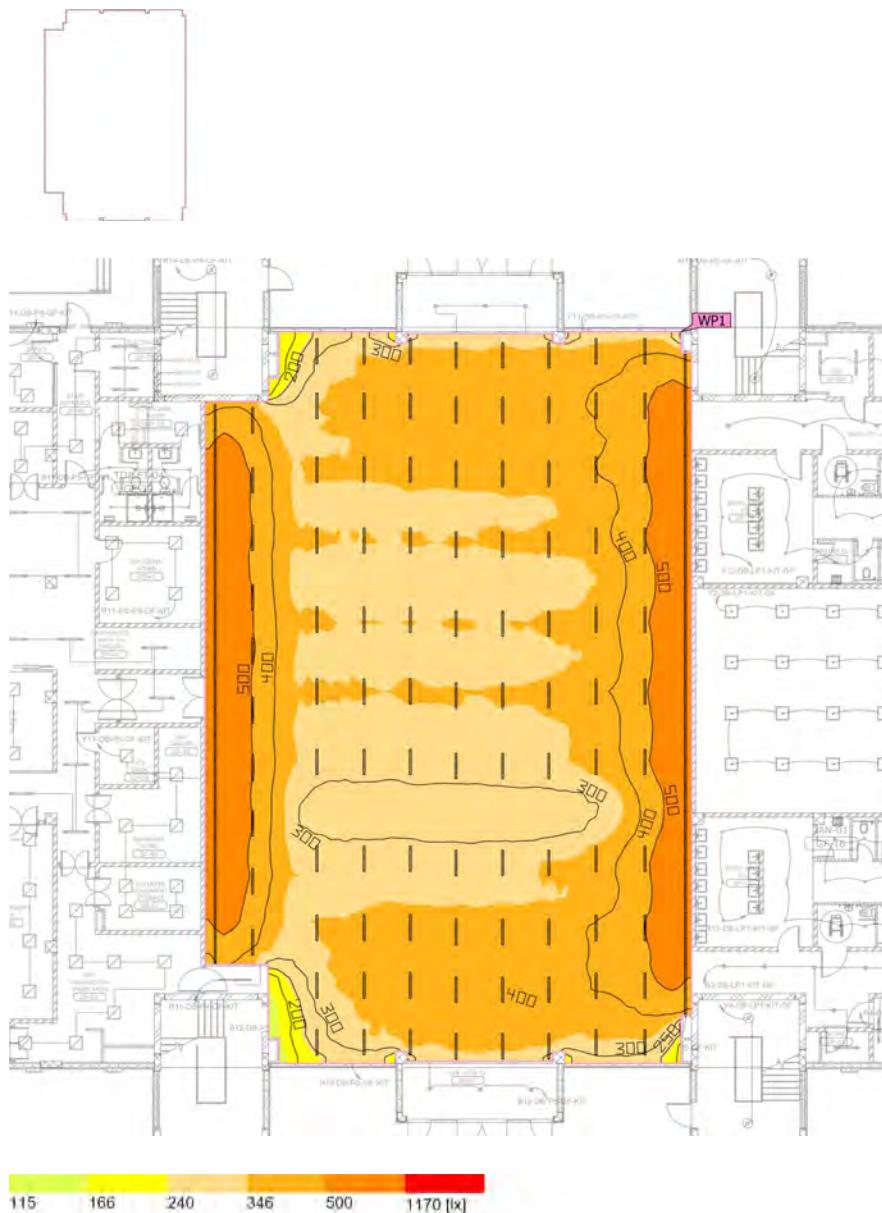
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
146	FRATER	LR08-030	LINEAR LIGHT LR08	-	30.0 W	3000 lm	100.0 lm/W

Building 1 · Storey 1 · Dining Area (Light scene 1)

Working plane (Dining Area)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Dining Area)	382 lx	131 lx	594 lx	0.34	0.22	WP1
Perpendicular illuminance (adaptive)						
Height: 0.800 m, Wall zone: 0.000 m						

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

Building 1 · Storey 1 · Dining Area

Description

Building 1 · Storey 1 · Dining Area (Light scene 1)

Summary



Ground area	1122.75 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.800 m
		Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Dining Area (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	320 lx
	$U_o (g_1)$	0.41
Energy estimation ⁽²⁾	Consumption	12326 kWh/a

(1) Based on a rectangular space of 34.625 m x 35.200 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

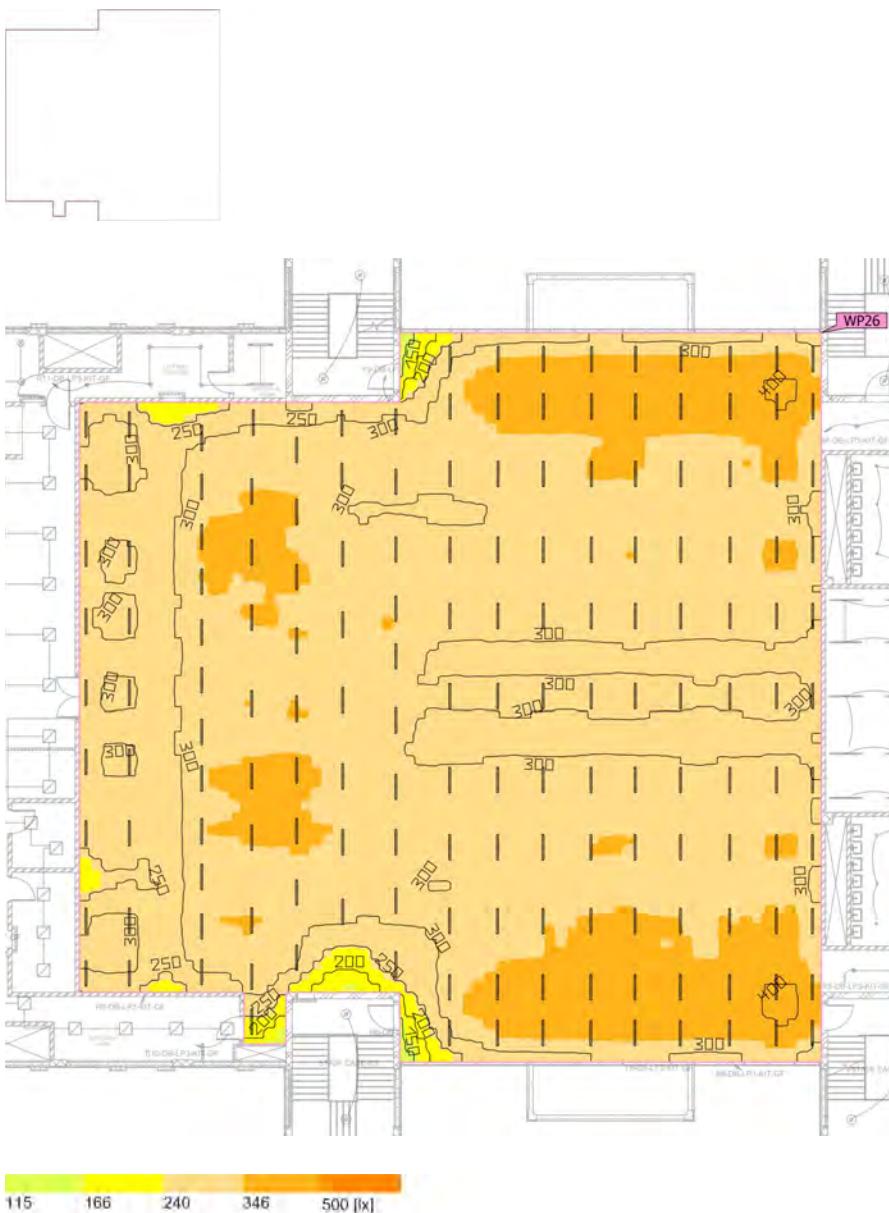
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
166	FRATER	LR08-030	LINEAR LIGHT LR08	-	30.0 W	3000 lm	100.0 lm/W

Building 1 · Storey 1 · Dining Area (Light scene 1)

Working plane (Dining Area)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Dining Area)	320 lx	131 lx	412 lx	0.41	0.32	WP26
Perpendicular illuminance (adaptive)						
Height: 0.800 m, Wall zone: 0.000 m						

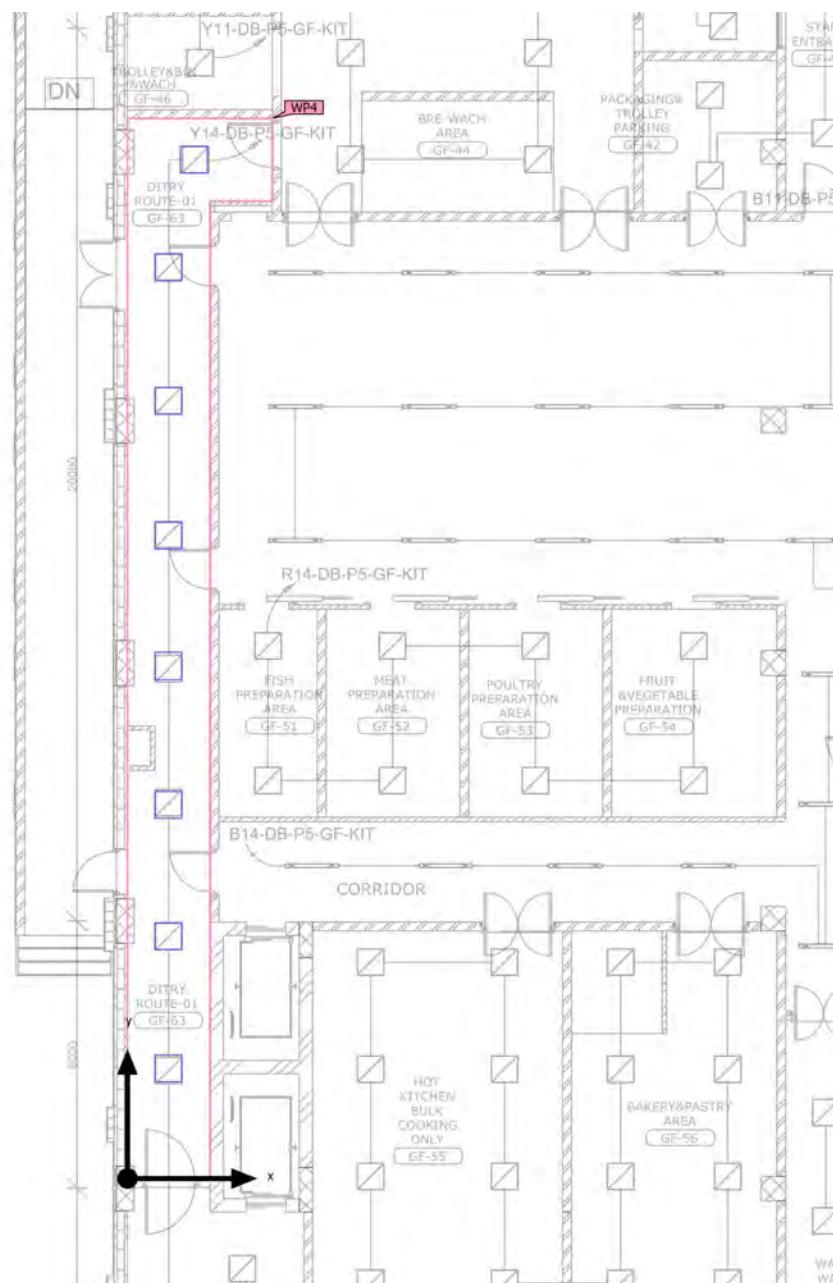
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Dirty Route

Description

Building 1 · Storey 1 · Dirty Route (Light scene 1)

Summary



Ground area	46.49 m ²
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.500 m
Mounting height	3.500 m
Height Working plane	0.000 m
Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Dirty Route (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	247 lx
	$U_o (g_1)$	0.47
Energy estimation ⁽²⁾	Consumption	950 kWh/a

(1) Based on a rectangular space of 23.750 m x 3.250 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

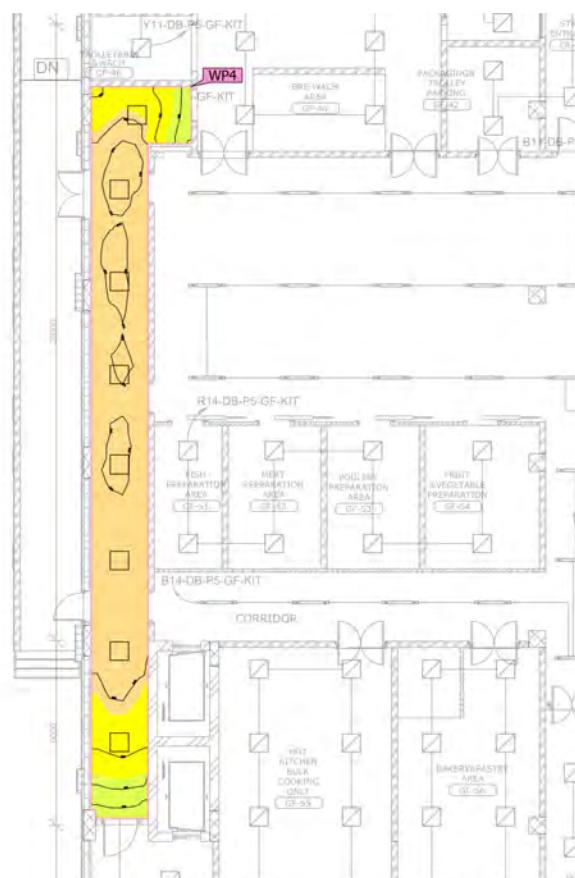
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
8	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	-	48.0 W	4800 lm	100.0 lm/W

Building 1 · Storey 1 · Dirty Route (Light scene 1)

Working plane (Dirty Route)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Dirty Route)	247 lx	117 lx	285 lx	0.47	0.41	WP4
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						

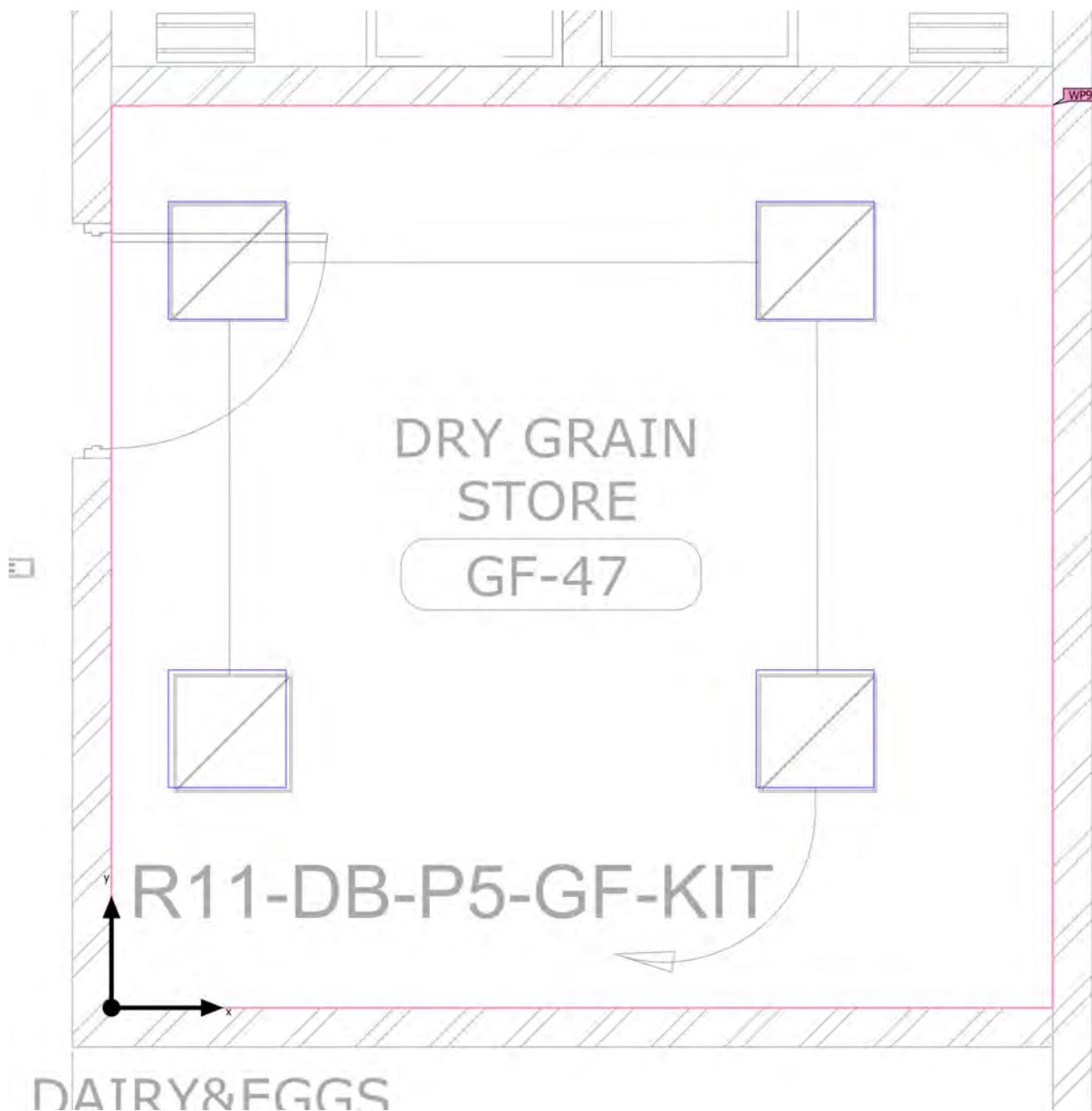
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Dry Grain Store

Description

Building 1 · Storey 1 · Dry Grain Store (Light scene 1)

Summary



Ground area	22.08 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.800 m
		Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Dry Grain Store (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	374 lx
	$U_o (g_1)$	0.63
Energy estimation ⁽²⁾	Consumption	475 kWh/a

(1) Based on a rectangular space of 4.600 m x 4.800 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

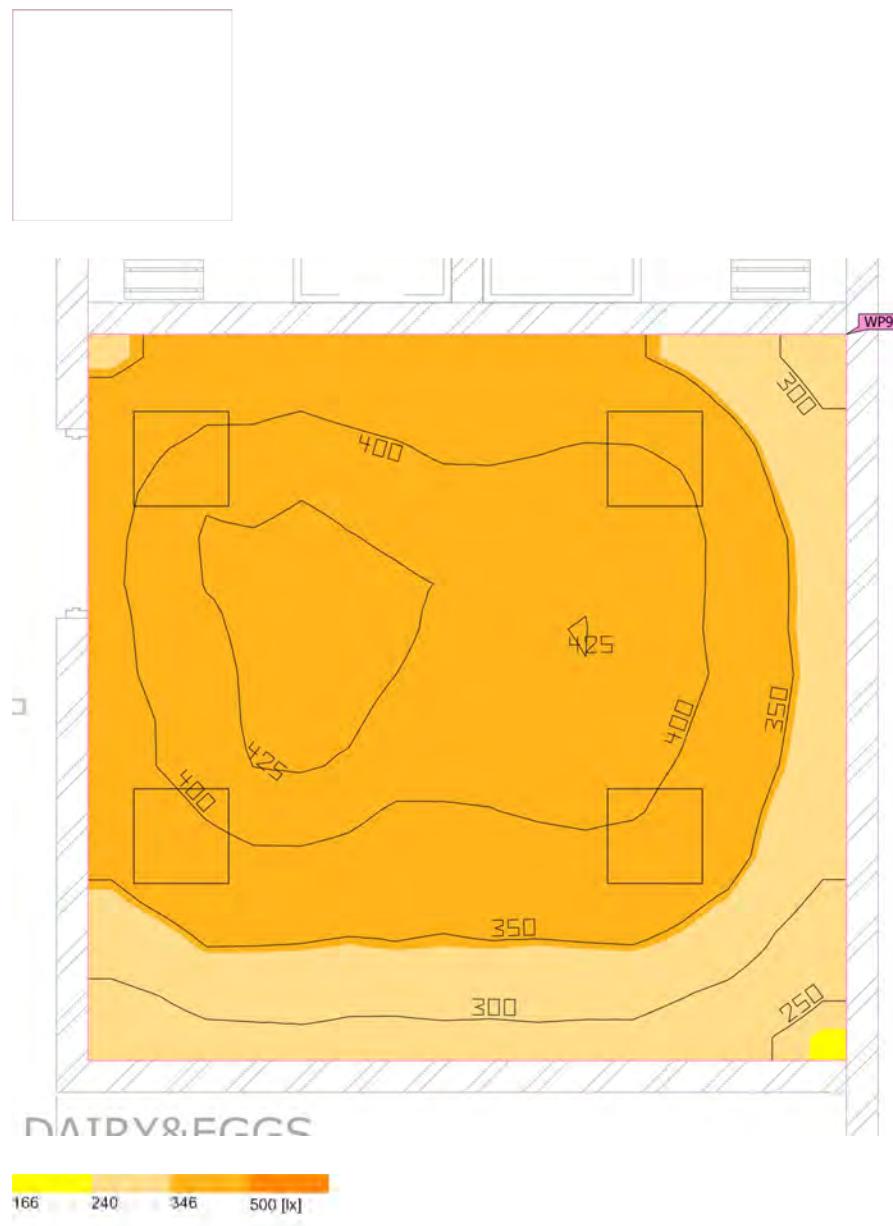
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
4	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	-	48.0 W	4800 lm	100.0 lm/W

Building 1 · Storey 1 · Dry Grain Store (Light scene 1)

Working plane (Dry Grain Store)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Dry Grain Store) Perpendicular illuminance (adaptive) Height: 0.800 m, Wall zone: 0.000 m	374 lx	237 lx	434 lx	0.63	0.55	WP9

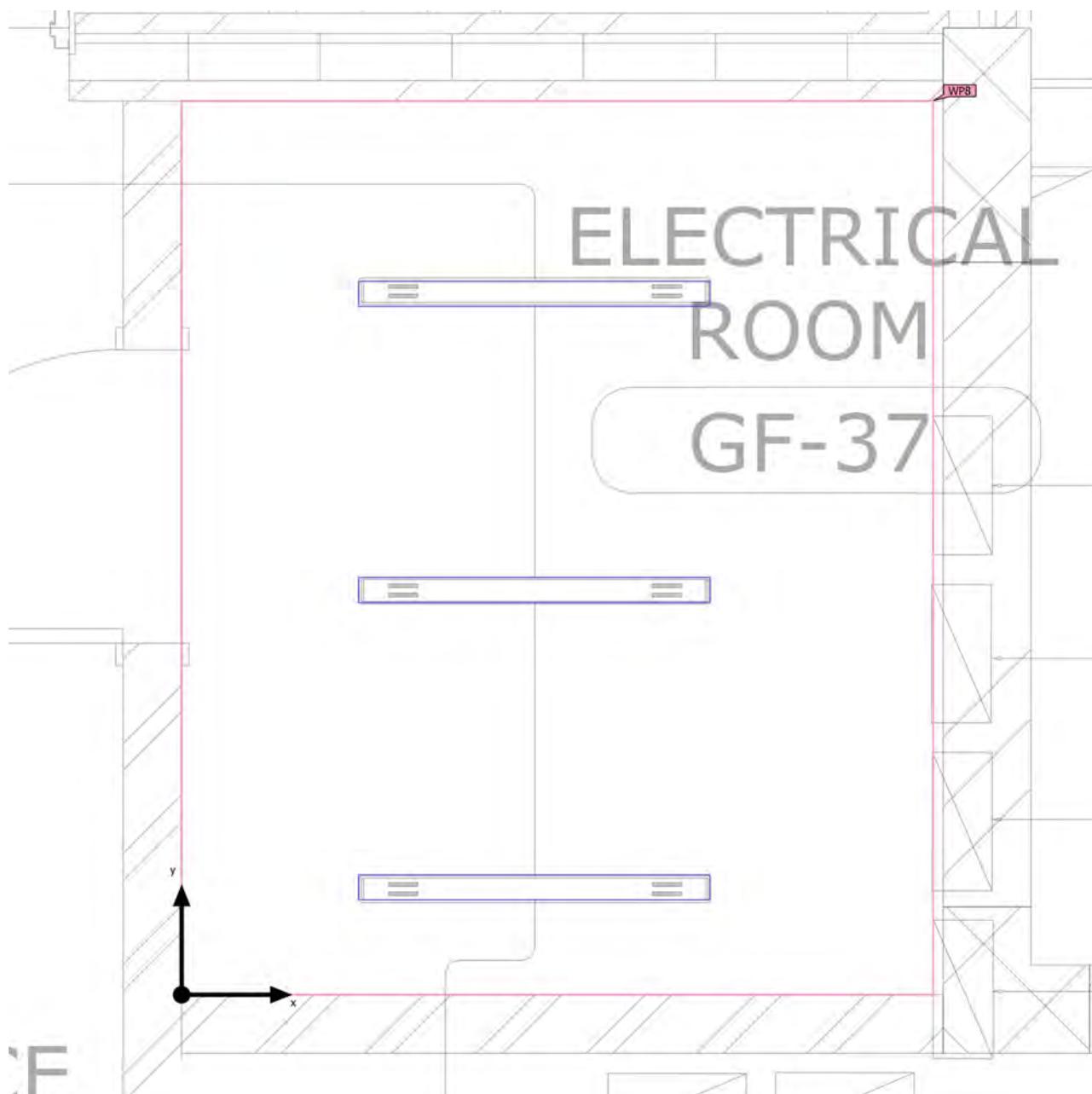
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Electrical Room

Description

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

Summary



Ground area	7.83 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.000 m

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

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	374 lx
	$U_b (g_1)$	0.82
Energy estimation ⁽²⁾	Consumption	293 kWh/a

(1) Based on a rectangular space of 3.050 m x 2.566 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

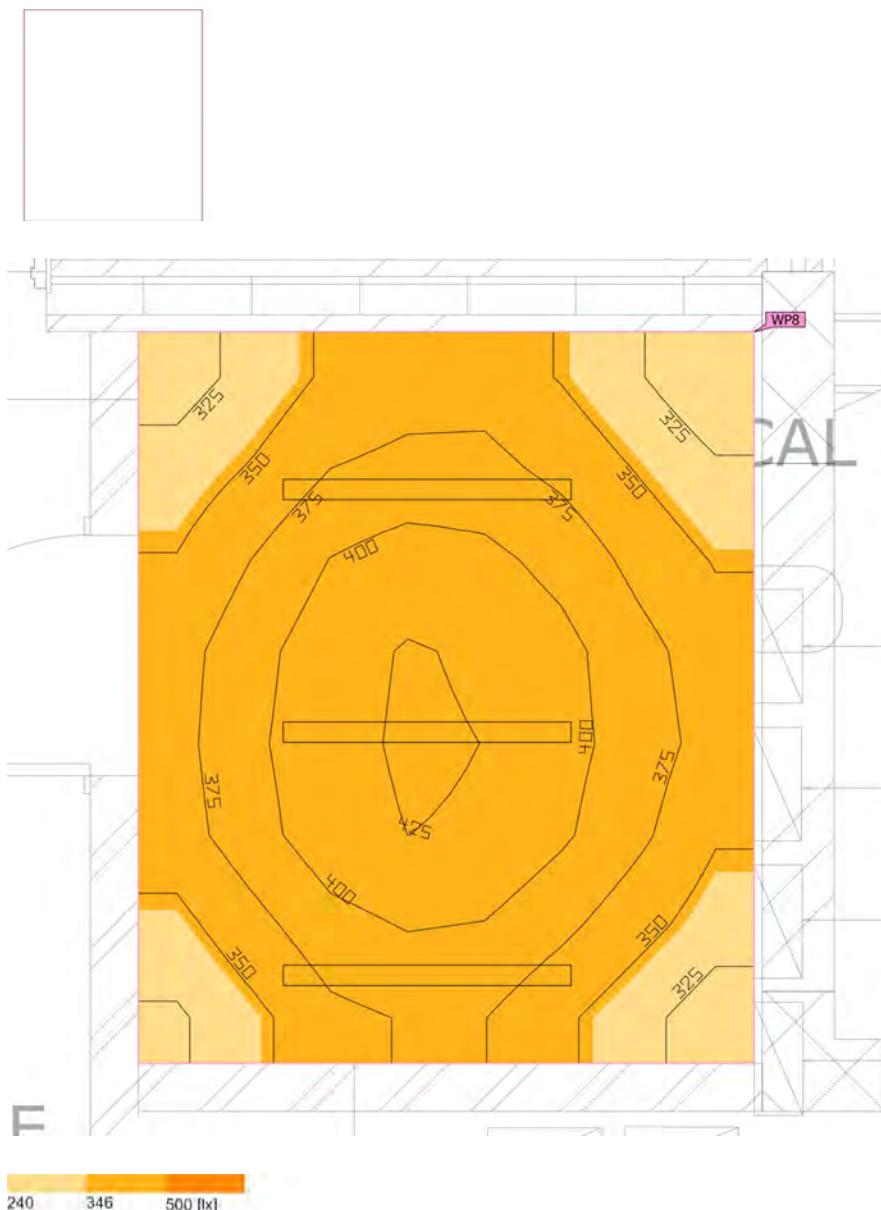
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
3	FRATER	WPCA-040	WEATHERPROOF CALIBER	-	39.5 W	4952 lm	125.4 lm/W

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

Working plane (Electrical Room)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Electrical Room)	374 lx	305 lx	425 lx	0.82	0.72	WP8
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						

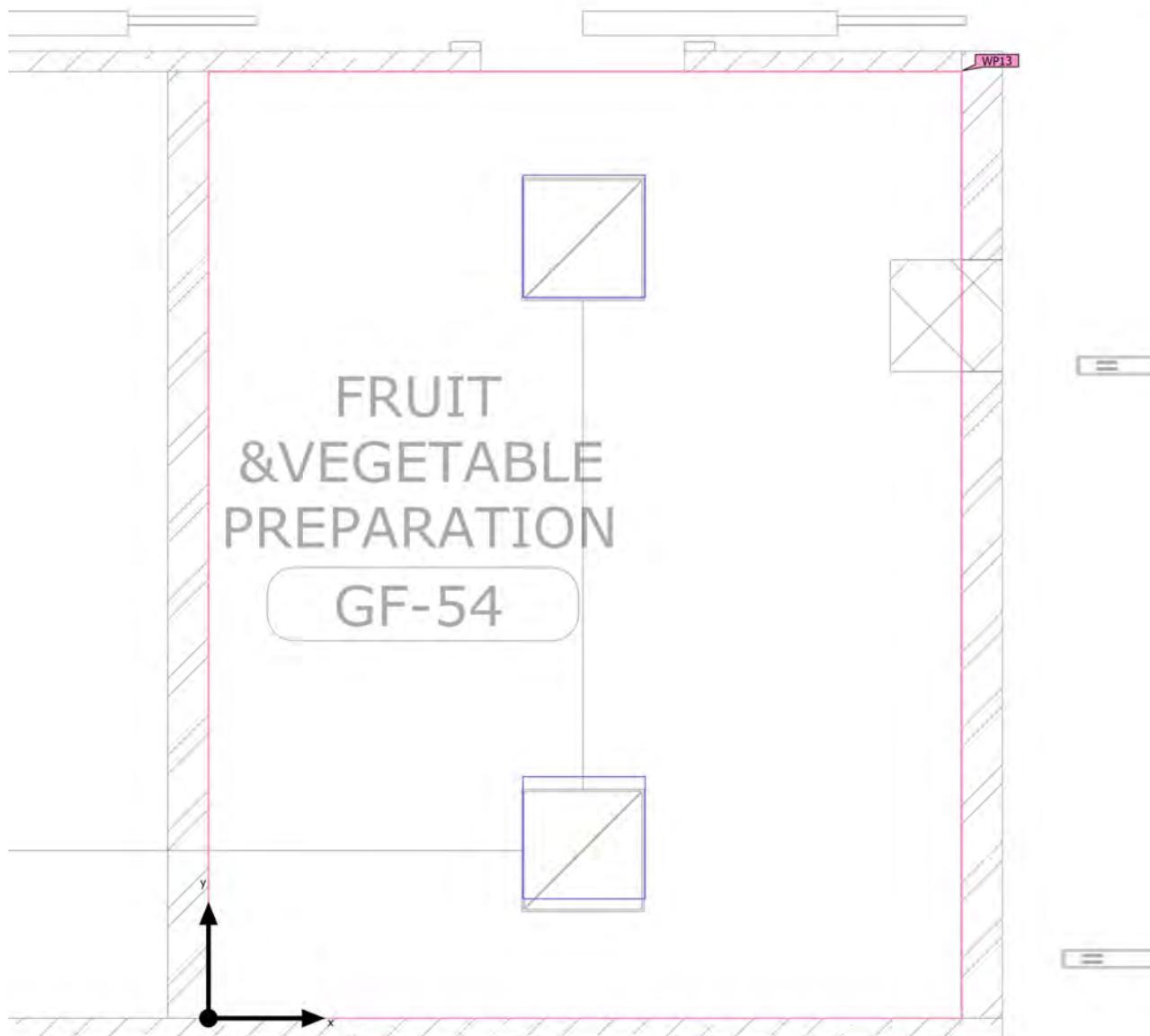
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · F&V Preparation Area

Description

Building 1 · Storey 1 · F&V Preparation Area (Light scene 1)

Summary



Ground area	17.20 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.800 m
		Wall zone Working plane	0.000 m

Building 1 · Storey 1 · F&V Preparation Area (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	235 lx
	$U_o (g_1)$	0.69
Energy estimation ⁽²⁾	Consumption	238 kWh/a

(1) Based on a rectangular space of 4.650 m x 3.700 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

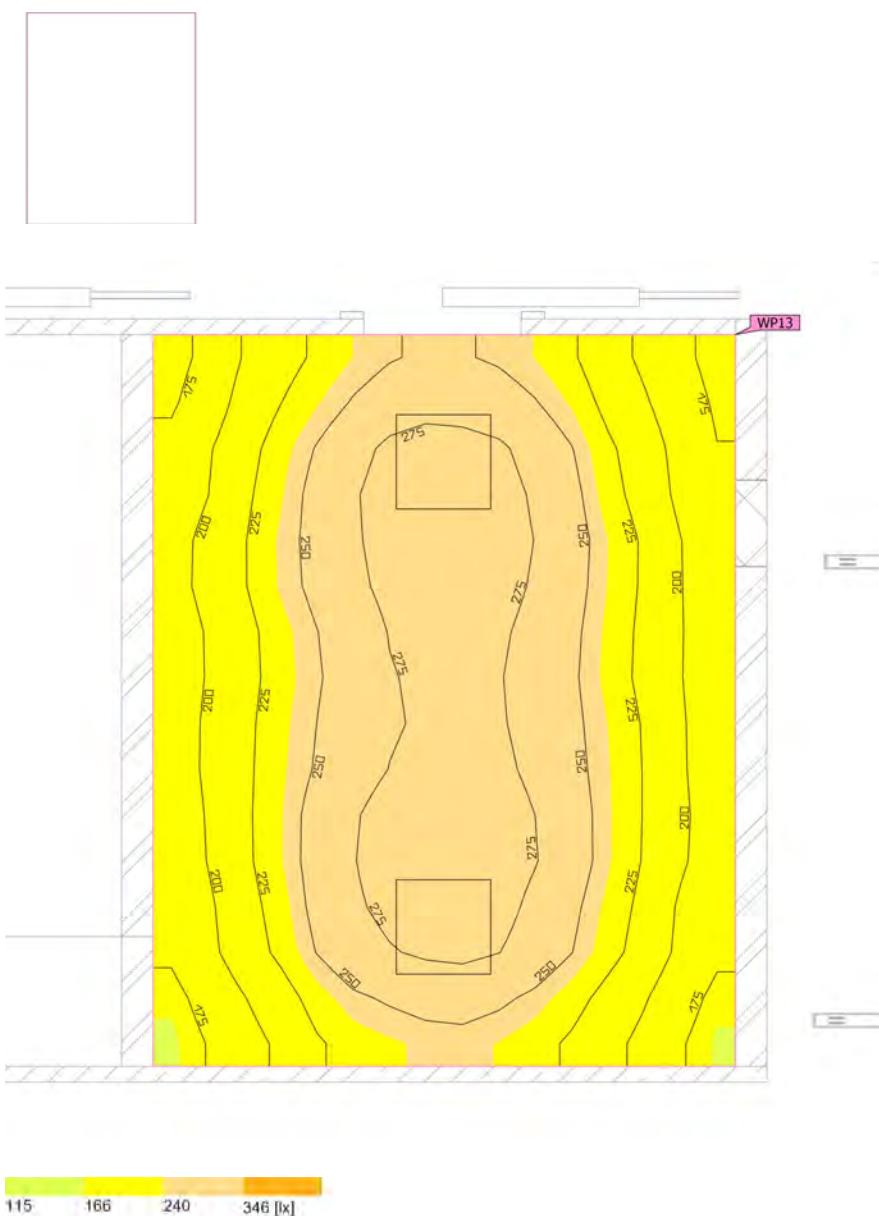
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
2	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	-	48.0 W	4800 lm	100.0 lm/W

Building 1 · Storey 1 · F&V Preparation Area (Light scene 1)

Working plane (F&V Preparation Area)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (F&V Preparation Area)	235 lx	163 lx	291 lx	0.69	0.56	WP13
Perpendicular illuminance (adaptive)						
Height: 0.800 m, Wall zone: 0.000 m						

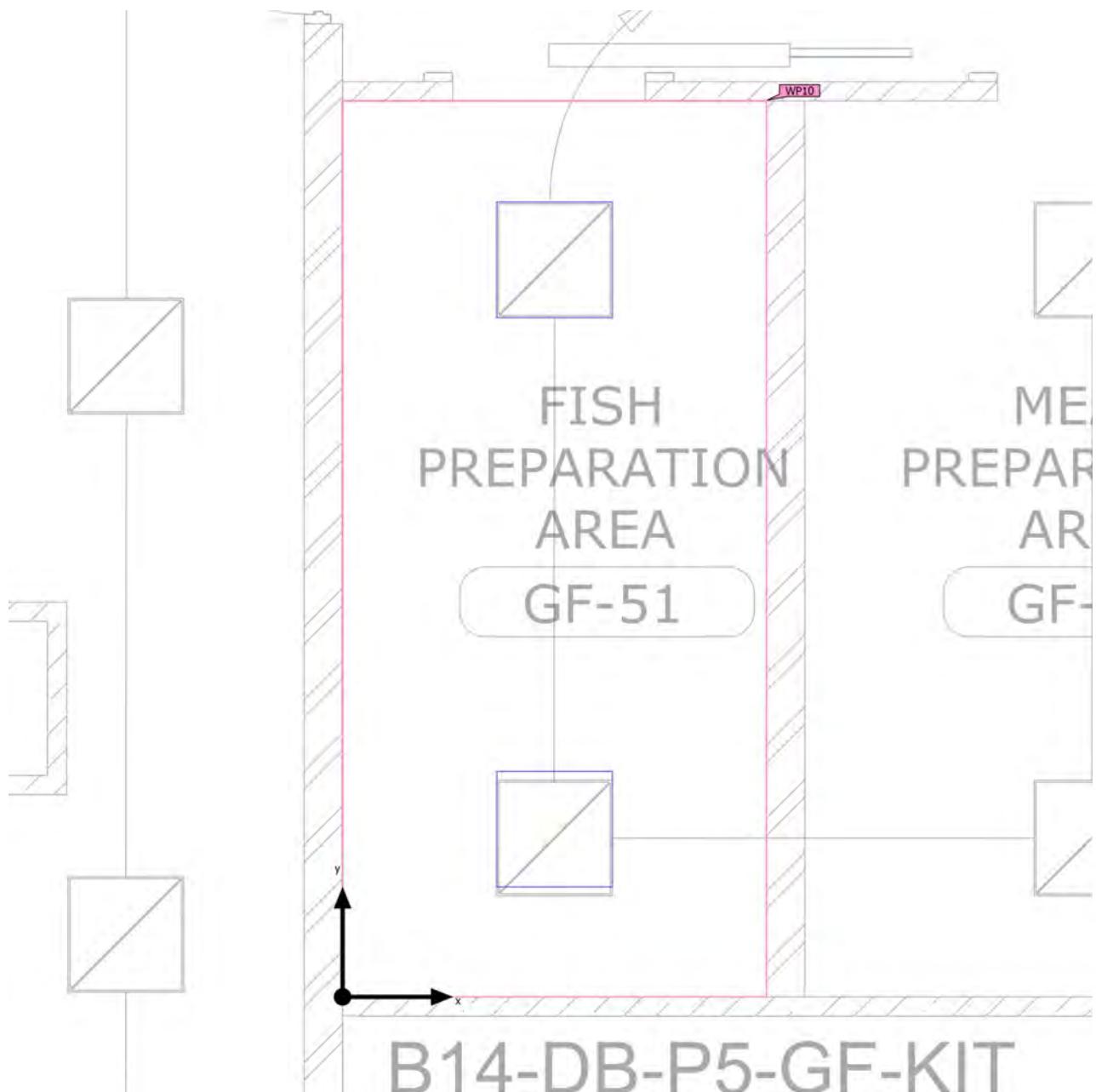
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Fish Preparation Area

Description

Building 1 · Storey 1 · Fish Preparation Area (Light scene 1)

Summary



Ground area	10.23 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.800 m
		Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Fish Preparation Area (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	292 lx
	$U_o (g_1)$	0.81
Energy estimation ⁽²⁾	Consumption	238 kWh/a

(1) Based on a rectangular space of 4.650 m x 2.200 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

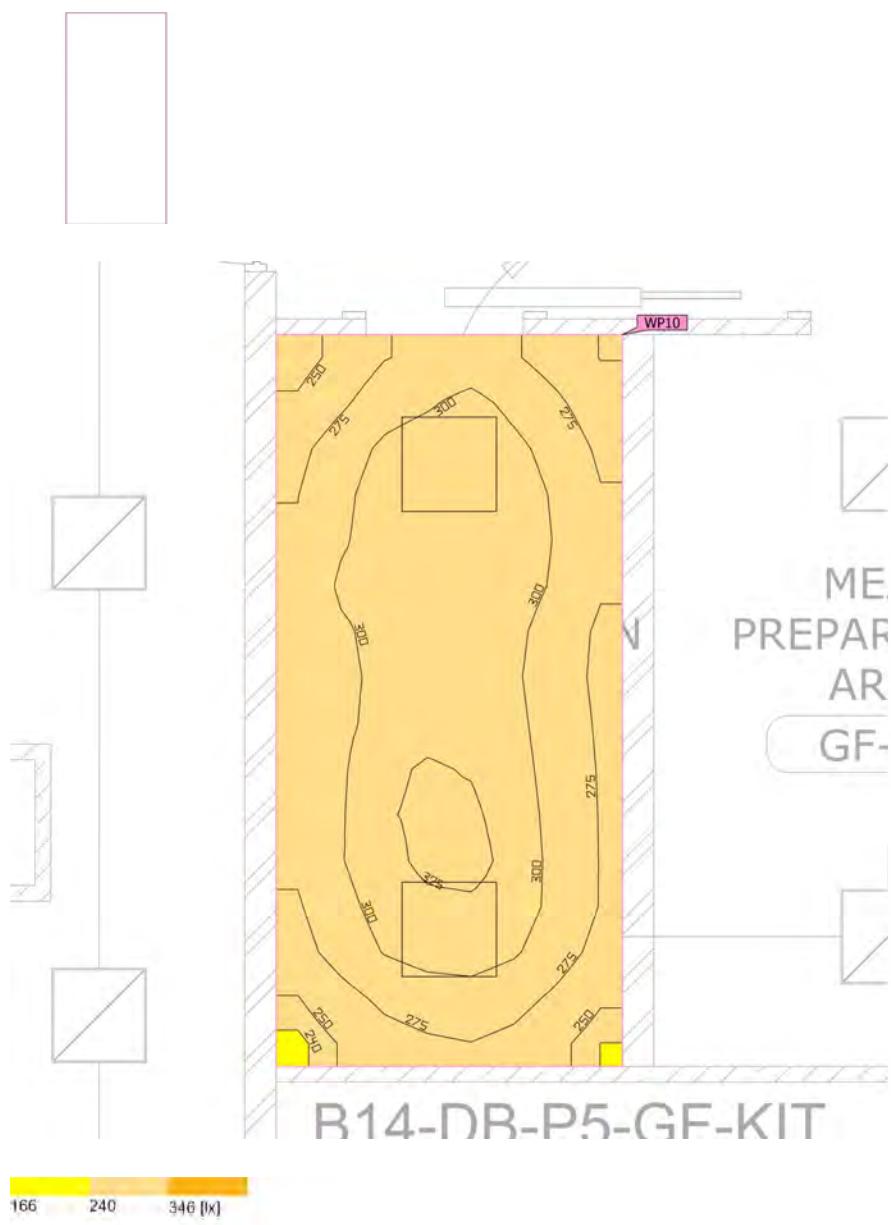
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
2	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	-	48.0 W	4800 lm	100.0 lm/W

Building 1 · Storey 1 · Fish Preparation Area (Light scene 1)

Working plane (Fish Preparation Area)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Fish Preparation Area)	292 lx	236 lx	331 lx	0.81	0.71	WP10
Perpendicular illuminance (adaptive)						
Height: 0.800 m, Wall zone: 0.000 m						

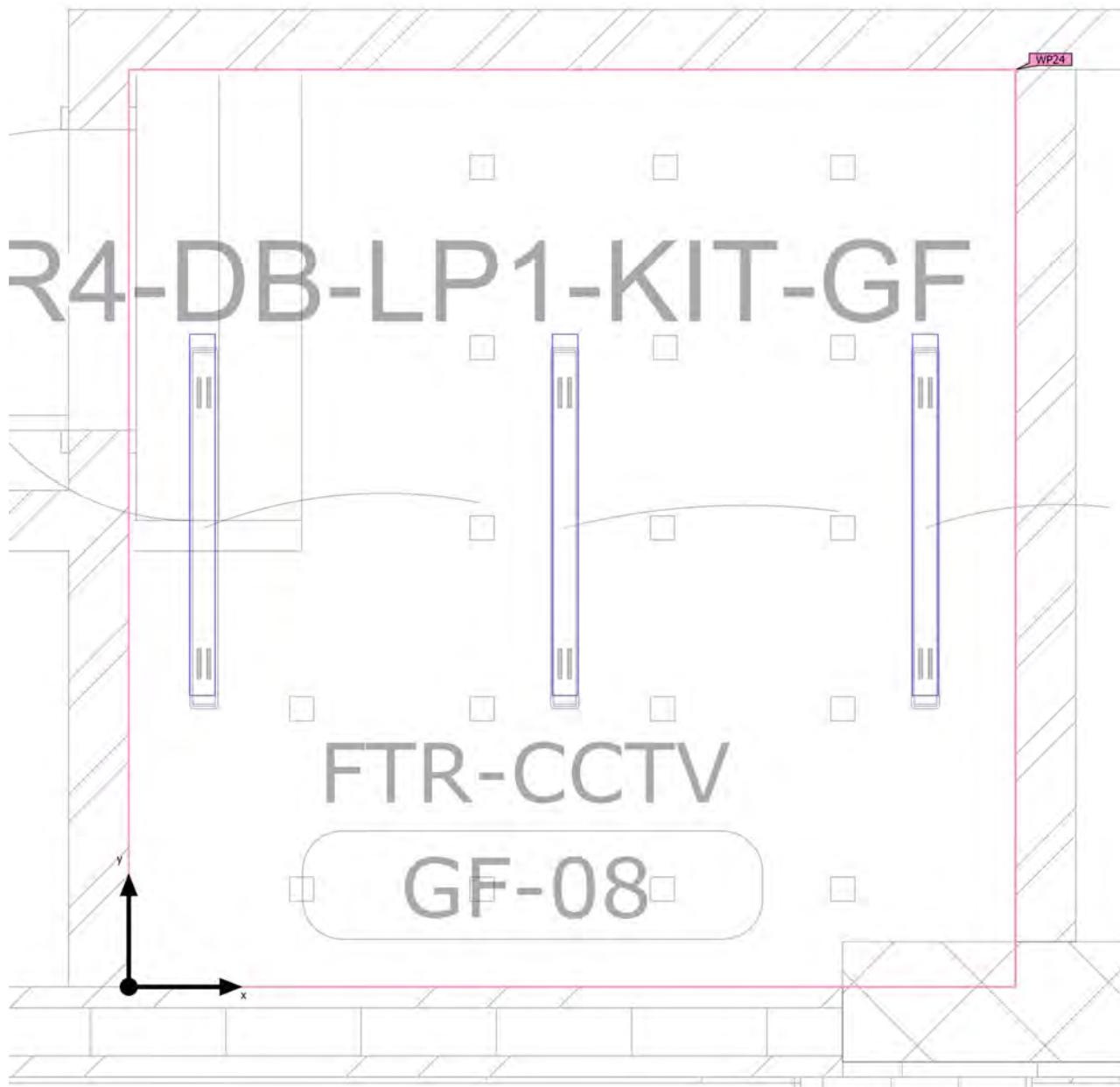
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · FTR-CCTV

Description

Building 1 · Storey 1 · FTR-CCTV (Light scene 1)

Summary



Ground area	9.00 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.000 m
		Wall zone Working plane	0.000 m

Building 1 · Storey 1 · FTR-CCTV (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	349 lx
	$U_o (g_1)$	0.80
Energy estimation ⁽²⁾	Consumption	293 kWh/a

(1) Based on a rectangular space of 3.050 m x 2.950 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

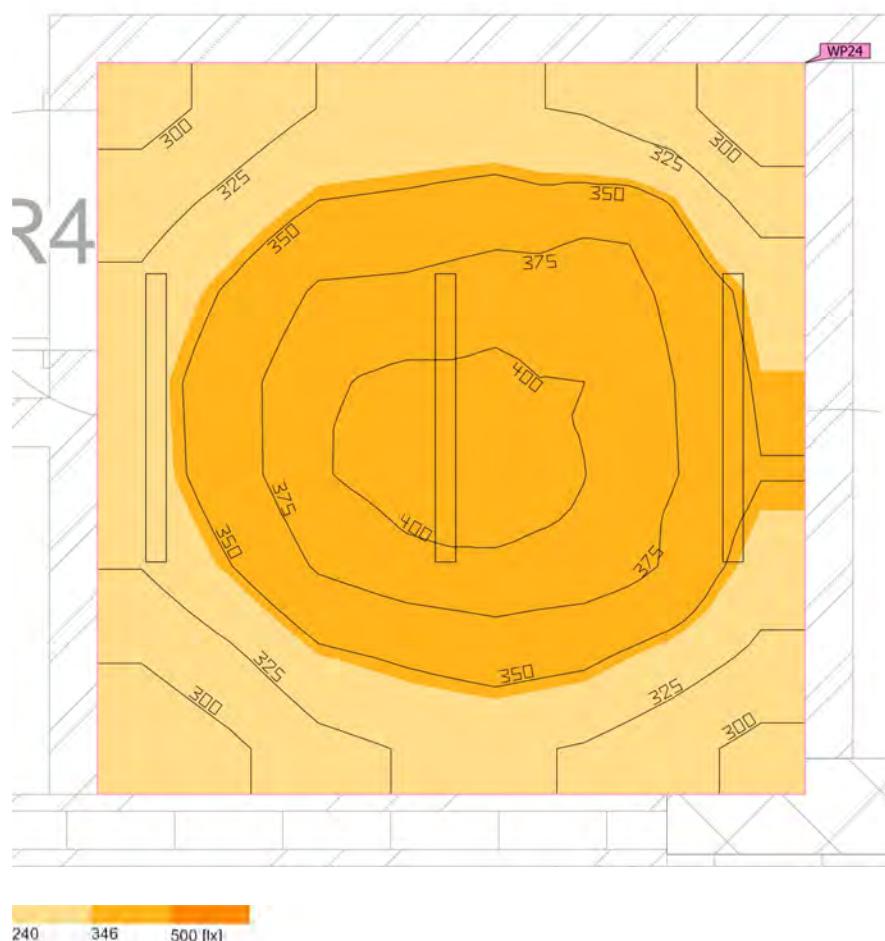
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
3	FRATER	WPCA-040	WEATHERPROOF CALIBER	-	39.5 W	4952 lm	125.4 lm/W

Building 1 · Storey 1 · FTR-CCTV (Light scene 1)

Working plane (FTR-CCTV)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (FTR-CCTV)	349 lx	278 lx	416 lx	0.80	0.67	WP24
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						

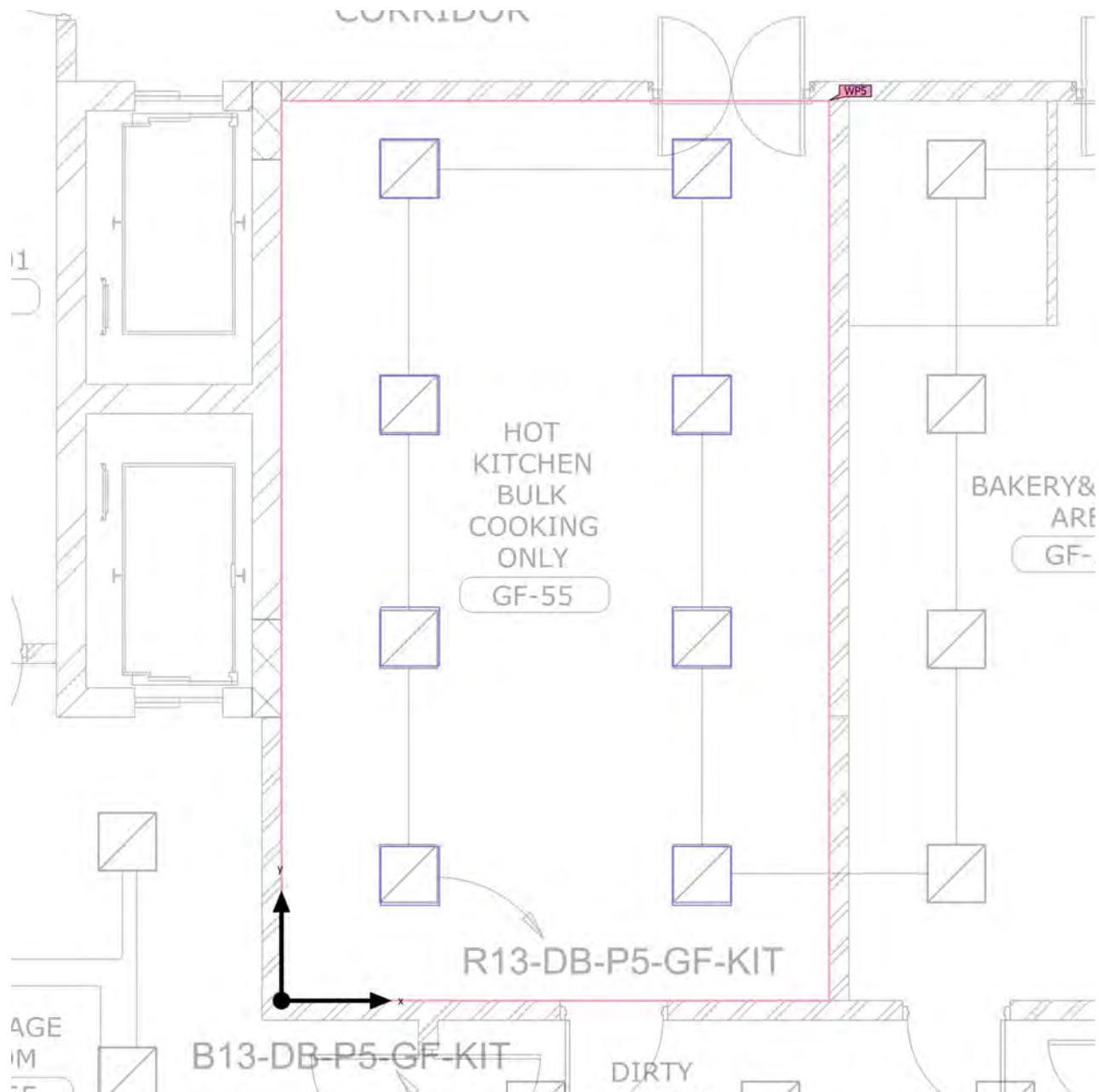
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Hot Kitchen Bulk Cooking

Description

Building 1 · Storey 1 · Hot Kitchen Bulk Cooking (Light scene 1)

Summary



Ground area	51.52 m ²
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.500 m
Mounting height	3.500 m
Height Working plane	0.800 m
Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Hot Kitchen Bulk Cooking (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	410 lx
	$U_o (g_1)$	0.57
Energy estimation ⁽²⁾	Consumption	950 kWh/a

(1) Based on a rectangular space of 9.200 m x 5.600 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

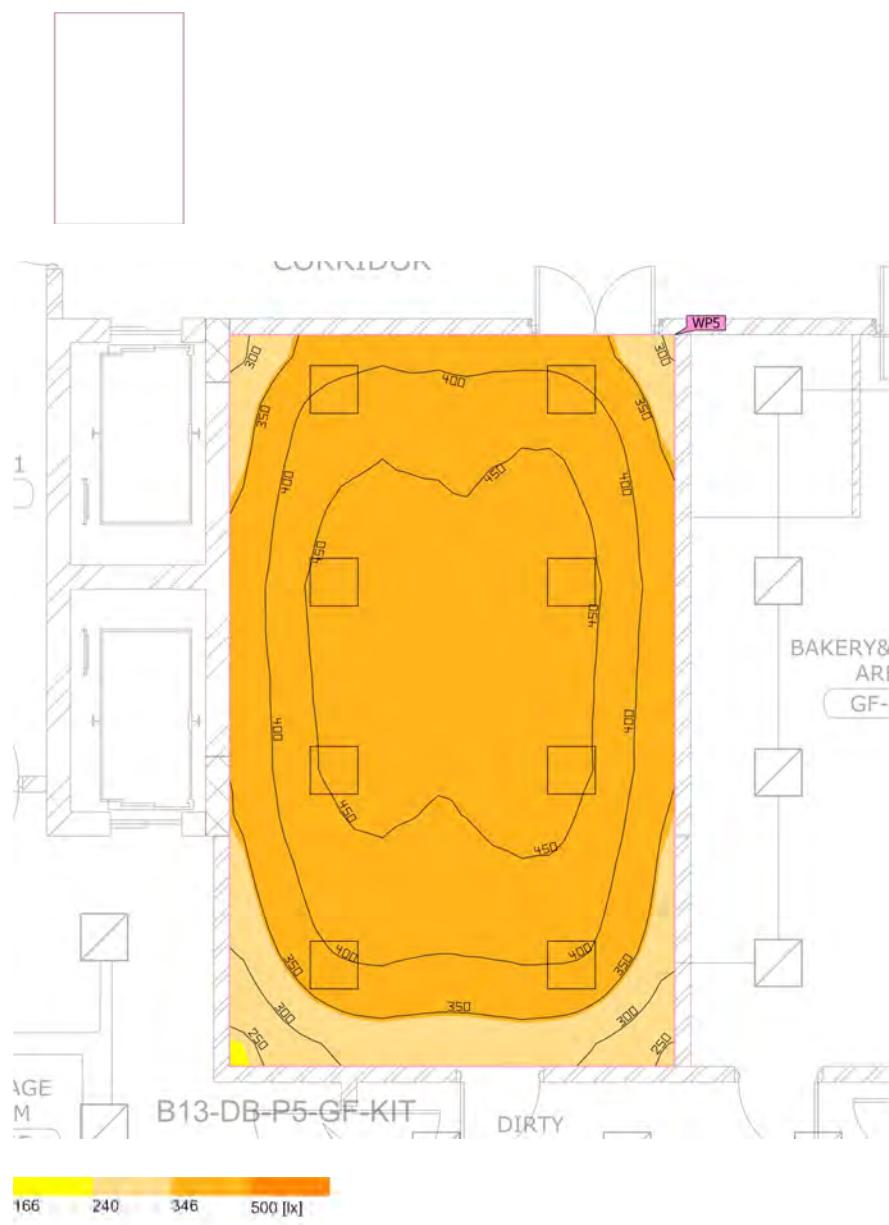
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
8	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	-	48.0 W	4800 lm	100.0 lm/W

Building 1 · Storey 1 · Hot Kitchen Bulk Cooking (Light scene 1)

Working plane (Hot Kitchen Bulk Cooking)



Properties	E	E _{min}	E _{max}	U _o (g ₁)	g ₂	Index
Working plane (Hot Kitchen Bulk Cooking)	410 lx	234 lx	480 lx	0.57	0.49	WP5
Perpendicular illuminance (adaptive)						
Height: 0.800 m, Wall zone: 0.000 m						

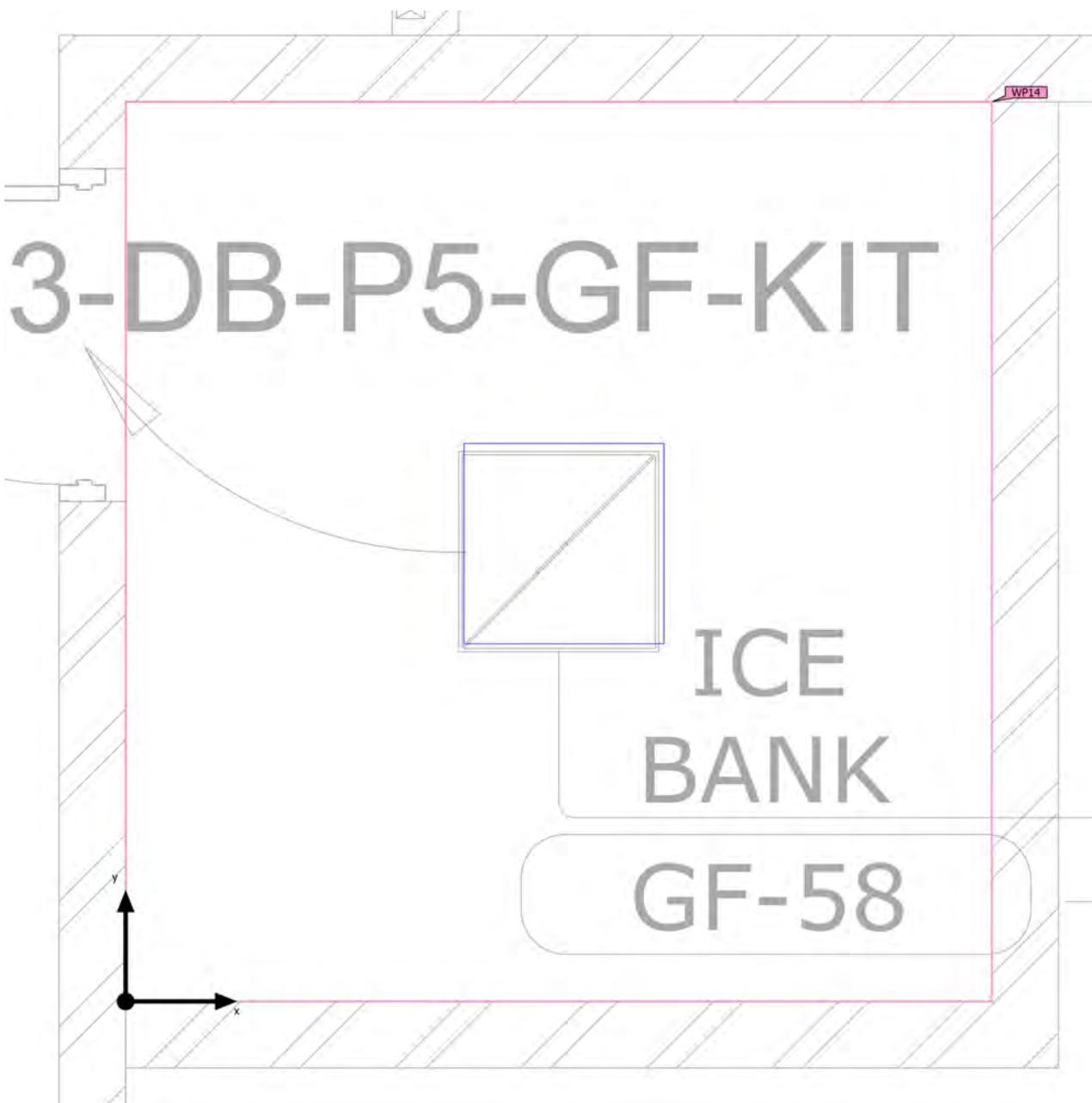
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Ice Bank

Description

Building 1 · Storey 1 · Ice Bank (Light scene 1)

Summary



Ground area	7.02 m ²
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.500 m
Mounting height	3.500 m
Height Working plane	0.800 m
Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Ice Bank (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	209 lx
	$U_o (g_1)$	0.78
Energy estimation ⁽²⁾	Consumption	119 kWh/a

(1) Based on a rectangular space of 2.700 m x 2.600 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

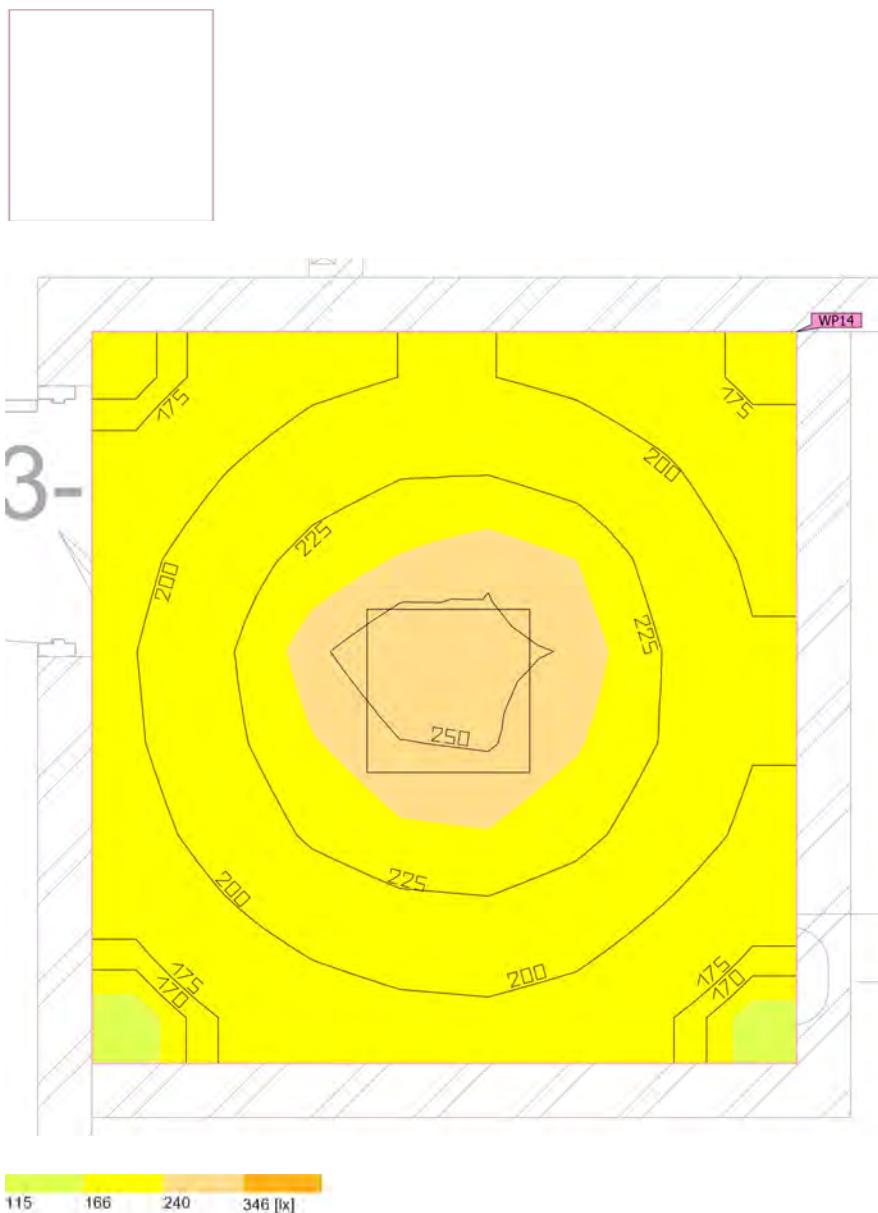
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
1	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	-	48.0 W	4800 lm	100.0 lm/W

Building 1 · Storey 1 · Ice Bank (Light scene 1)

Working plane (Ice Bank)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Ice Bank)	209 lx	162 lx	254 lx	0.78	0.64	WP14
Perpendicular illuminance (adaptive)						
Height: 0.800 m, Wall zone: 0.000 m						

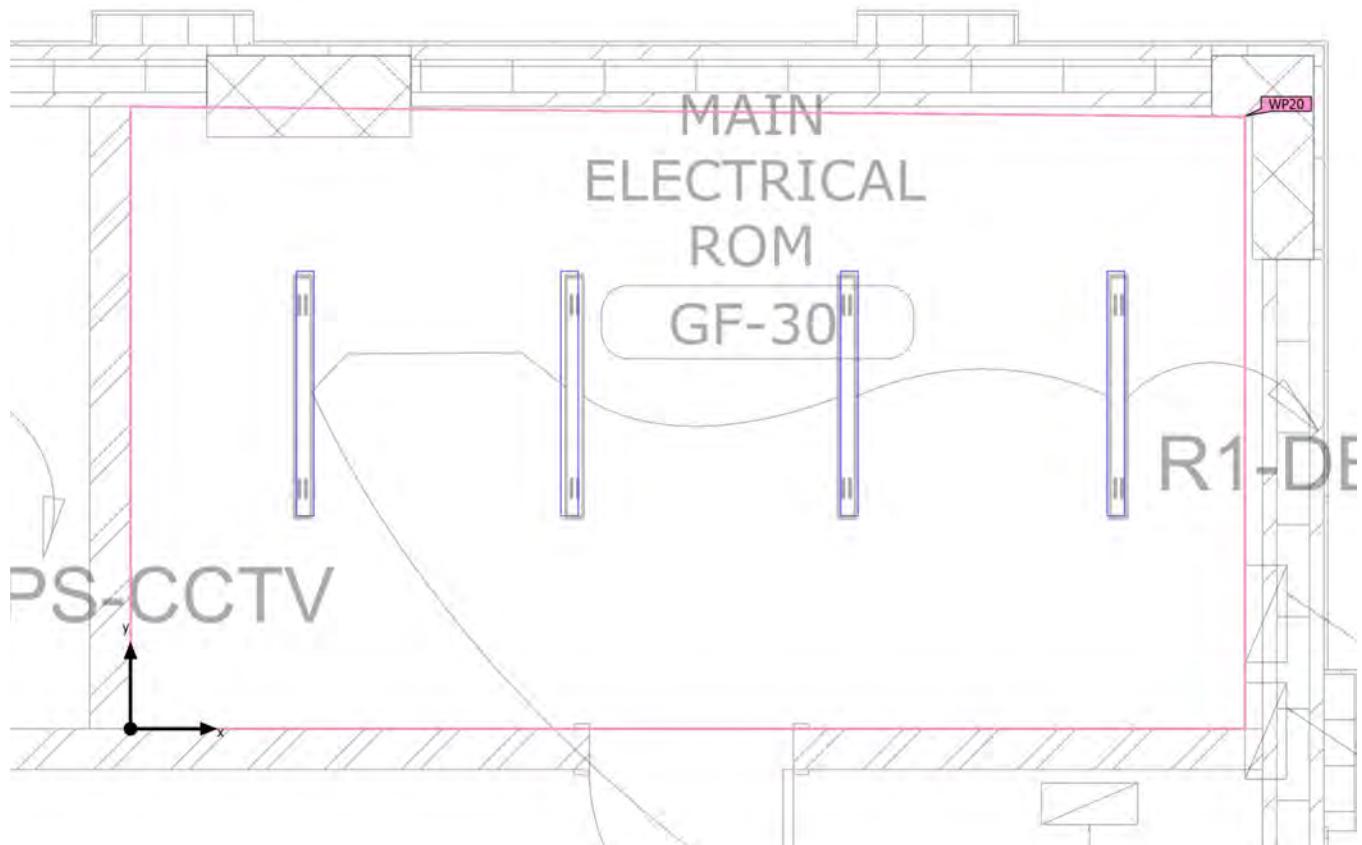
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Main Electrical Room

Description

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

Summary



Ground area	16.52 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.000 m
		Wall zone Working plane	0.000 m

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

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	350 lx
	$U_b (g_1)$	0.72
Energy estimation ⁽²⁾	Consumption	391 kWh/a

(1) Based on a rectangular space of 3.050 m x 5.463 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

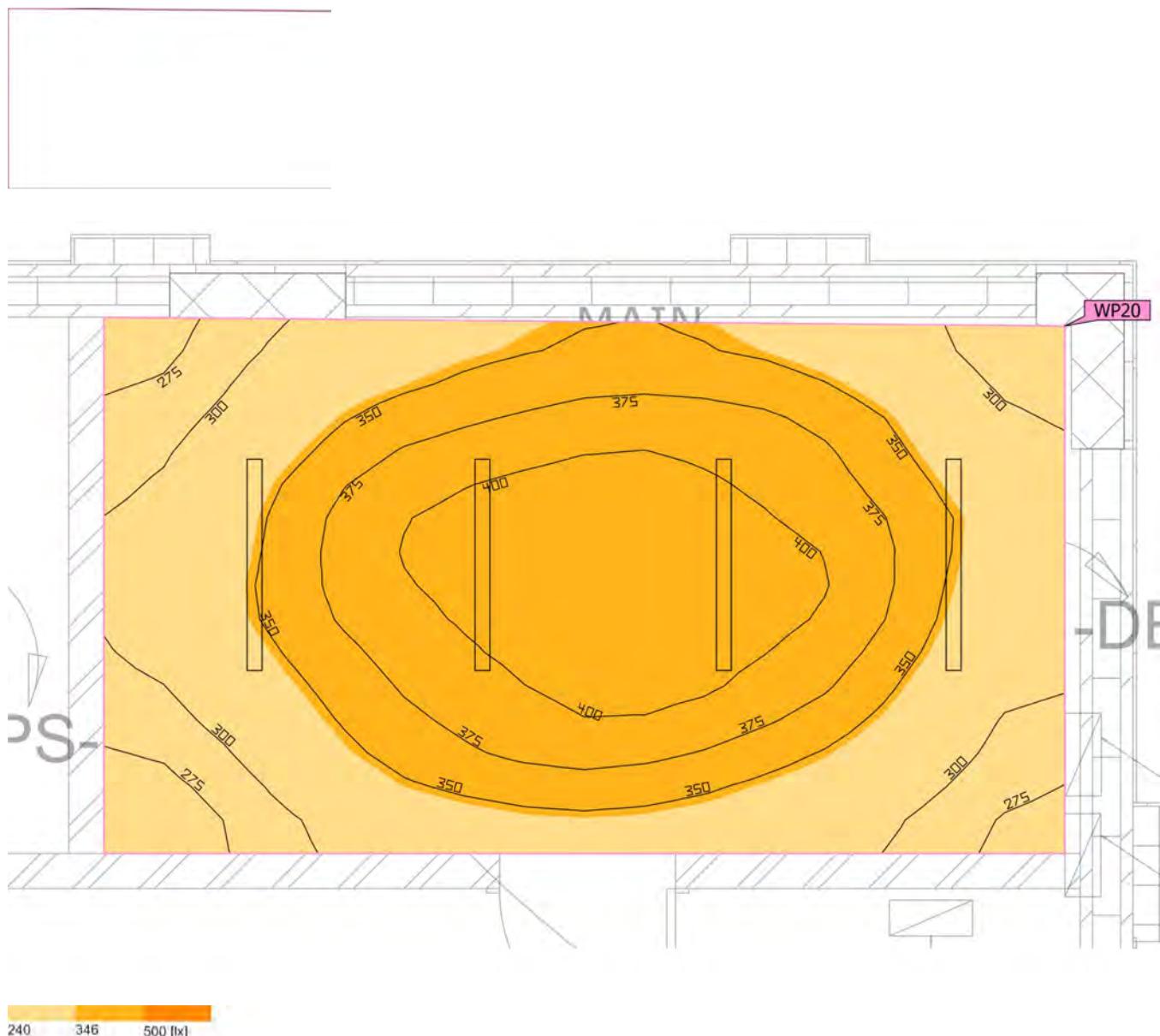
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
4	FRATER	WPCA-040	WEATHERPROOF CALIBER	-	39.5 W	4952 lm	125.4 lm/W

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

Working plane (Main Electrical Room)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Main Electrical Room)	350 lx	253 lx	421 lx	0.72	0.60	WP20
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						

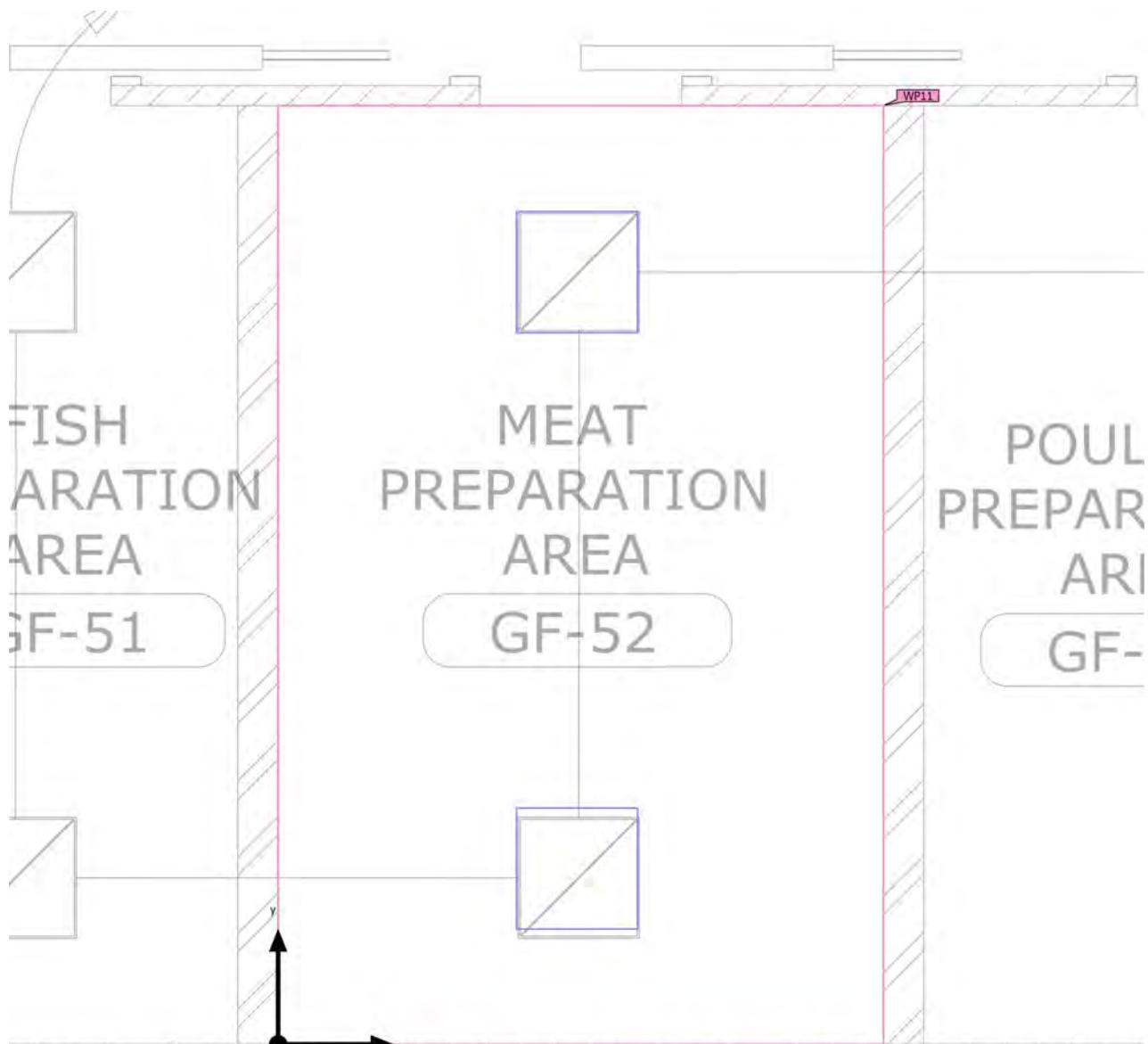
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Meat Preparation Area

Description

Building 1 · Storey 1 · Meat Preparation Area (Light scene 1)

Summary



DB-P5-GF-KIT

Ground area	13.95 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.800 m
		Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Meat Preparation Area (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	261 lx
	$U_o (g_1)$	0.77
Energy estimation ⁽²⁾	Consumption	238 kWh/a

(1) Based on a rectangular space of 4.650 m x 3.000 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

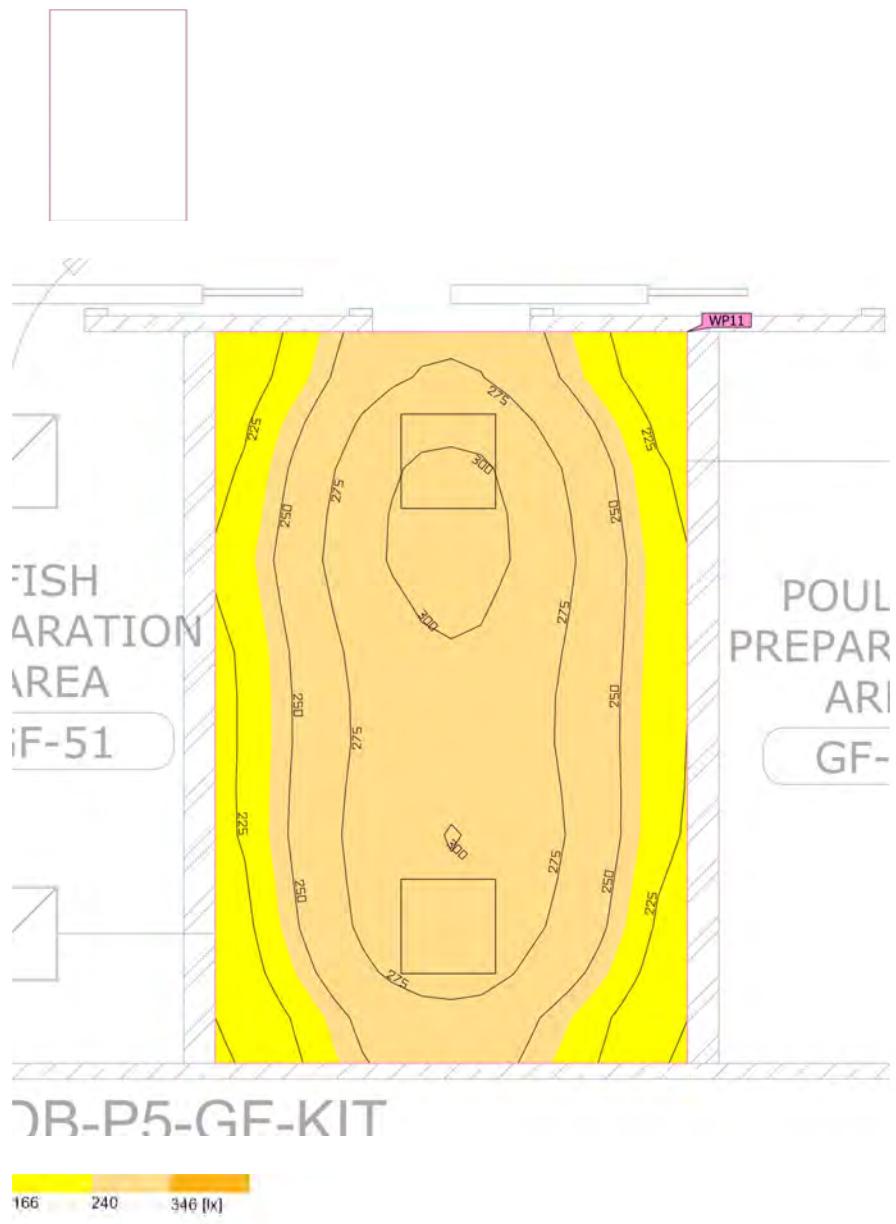
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
2	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	-	48.0 W	4800 lm	100.0 lm/W

Building 1 · Storey 1 · Meat Preparation Area (Light scene 1)

Working plane (Meat Preparation Area)



Properties	E	E _{min}	E _{max}	U _o (g ₁)	g ₂	Index
Working plane (Meat Preparation Area)	261 lx	200 lx	307 lx	0.77	0.65	WP11
Perpendicular illuminance (adaptive)						
Height: 0.800 m, Wall zone: 0.000 m						

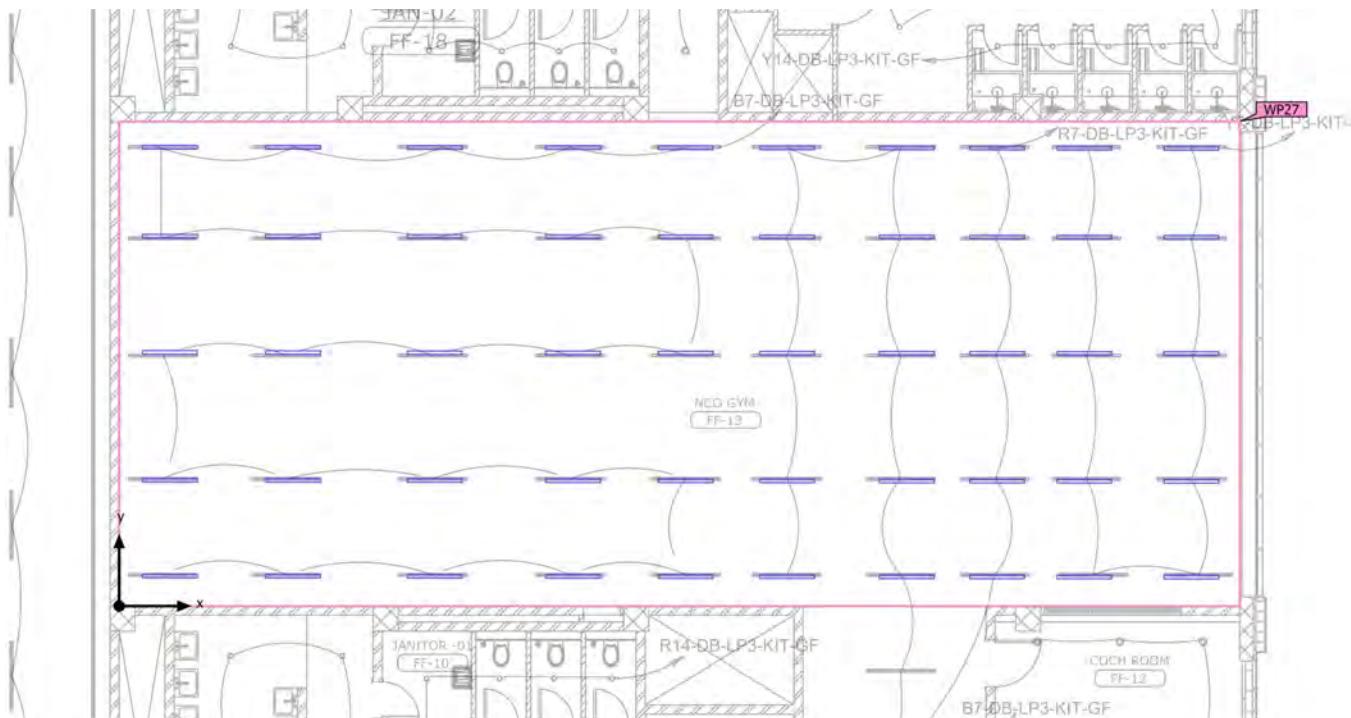
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · NCO Gym

Description

Building 1 · Storey 1 · NCO Gym (Light scene 1)

Summary



Ground area	259.70 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.000 m
		Wall zone Working plane	0.000 m

Building 1 · Storey 1 · NCO Gym (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	340 lx
	$U_b (g_1)$	0.60
Energy estimation ⁽²⁾	Consumption	3713 kWh/a

(1) Based on a rectangular space of 10.600 m x 24.500 m and SHR of 0.25.

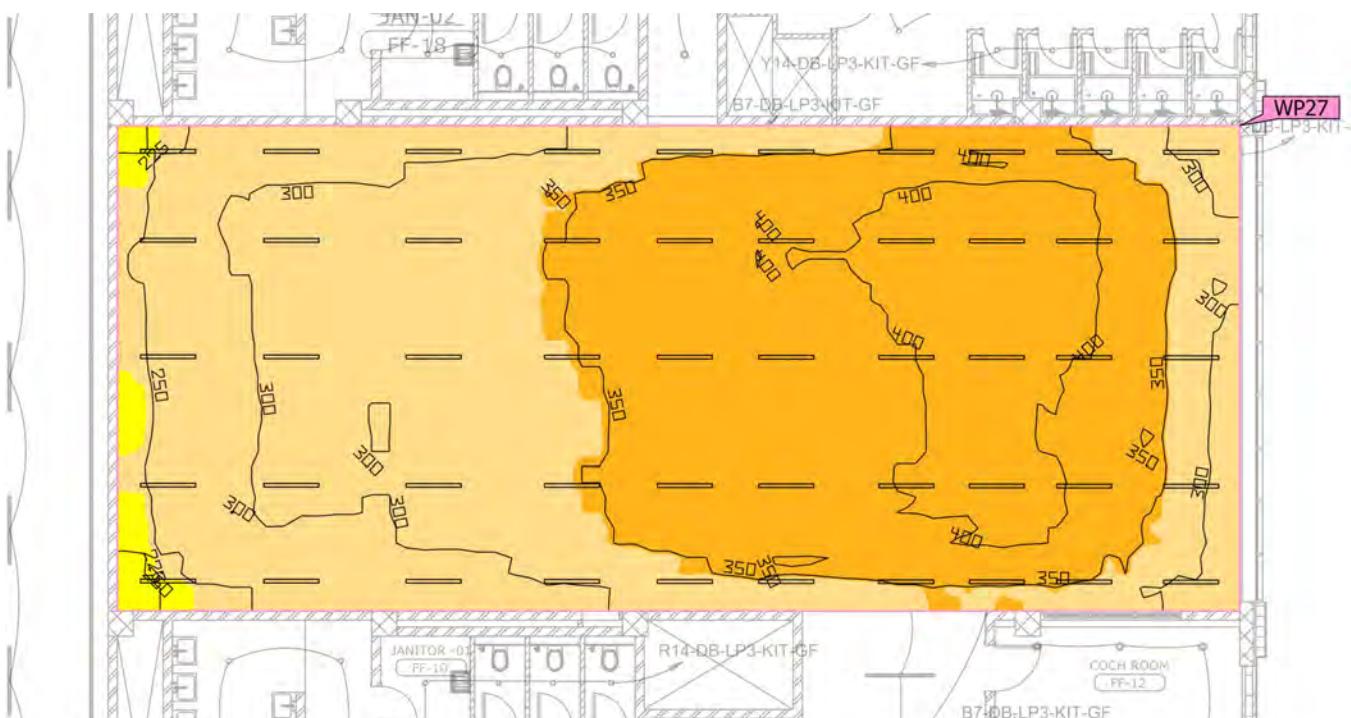
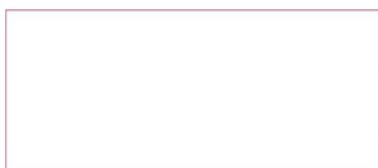
(2) Calculated using DIN:18599-4.

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

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
50	FRATER	LR08-030	LINEAR LIGHT LR08	-	30.0 W	3000 lm	100.0 lm/W

Building 1 · Storey 1 · NCO Gym (Light scene 1)

Working plane (NCO Gym)

Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (NCO Gym)	340 lx	205 lx	427 lx	0.60	0.48	WP27
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						

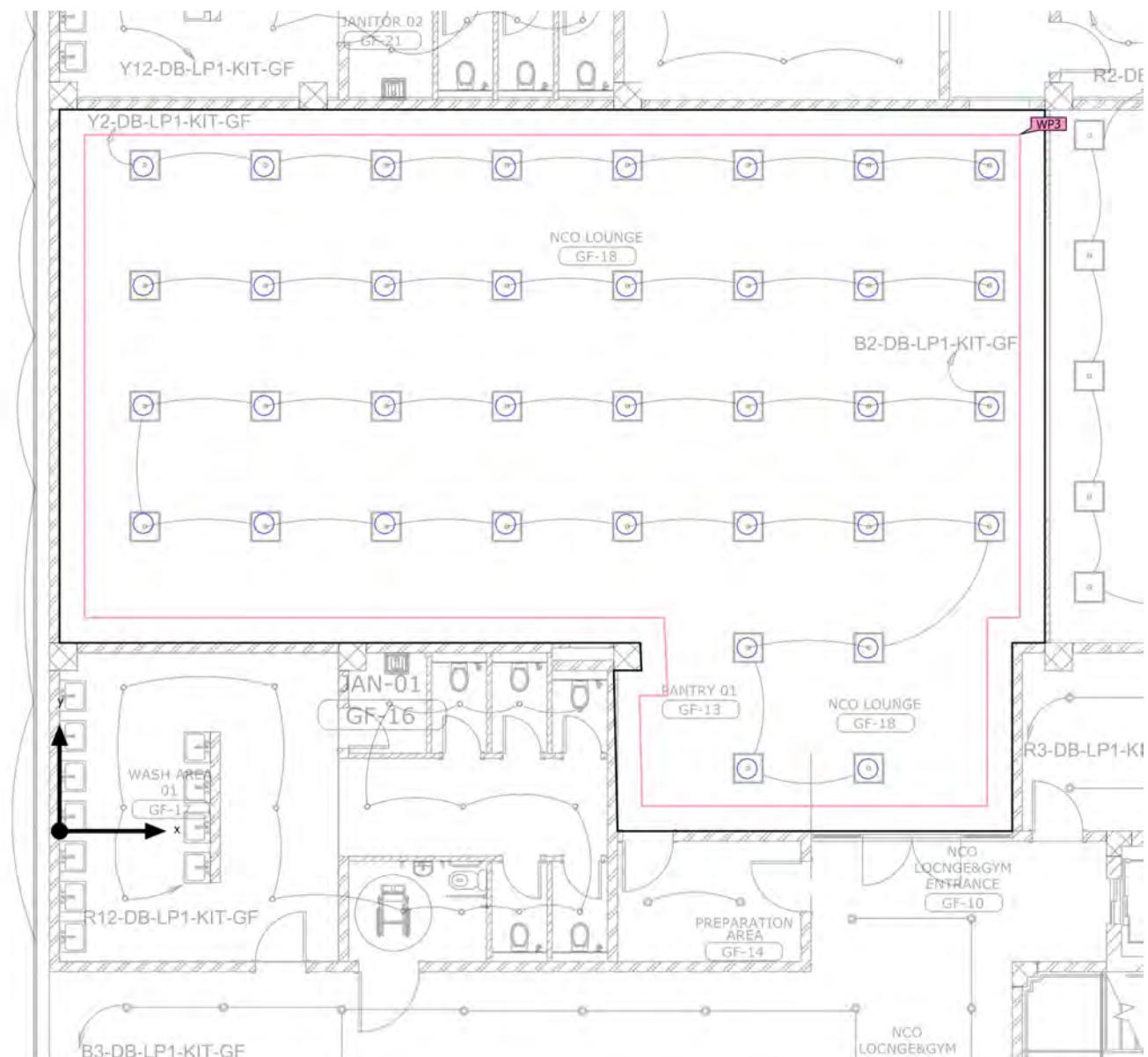
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · NCO Lounge

Description

Building 1 · Storey 1 · NCO Lounge (Light scene 1)

Summary



Ground area	237.16 m ²
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.500 m
Mounting height	3.500 m
Height Working plane	0.800 m
Wall zone Working plane	0.500 m

Building 1 · Storey 1 · NCO Lounge (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	172 lx
	$U_o (g_1)$	0.35
Energy estimation ⁽²⁾	Consumption	1515 kWh/a

(1) Based on a rectangular space of 14.360 m x 19.600 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	Φ	Luminous efficacy
36	FRATER	PD50-017	Pendant Light PD50	-	17.0 W	1530 lm	90.0 lm/W

Building 1 · Storey 1 · NCO Lounge (Light scene 1)

Working plane (NCO Lounge)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (NCO Lounge)	172 lx	59.5 lx	211 lx	0.35	0.28	WP3
Perpendicular illuminance (adaptive)						
Height: 0.800 m, Wall zone: 0.500 m						

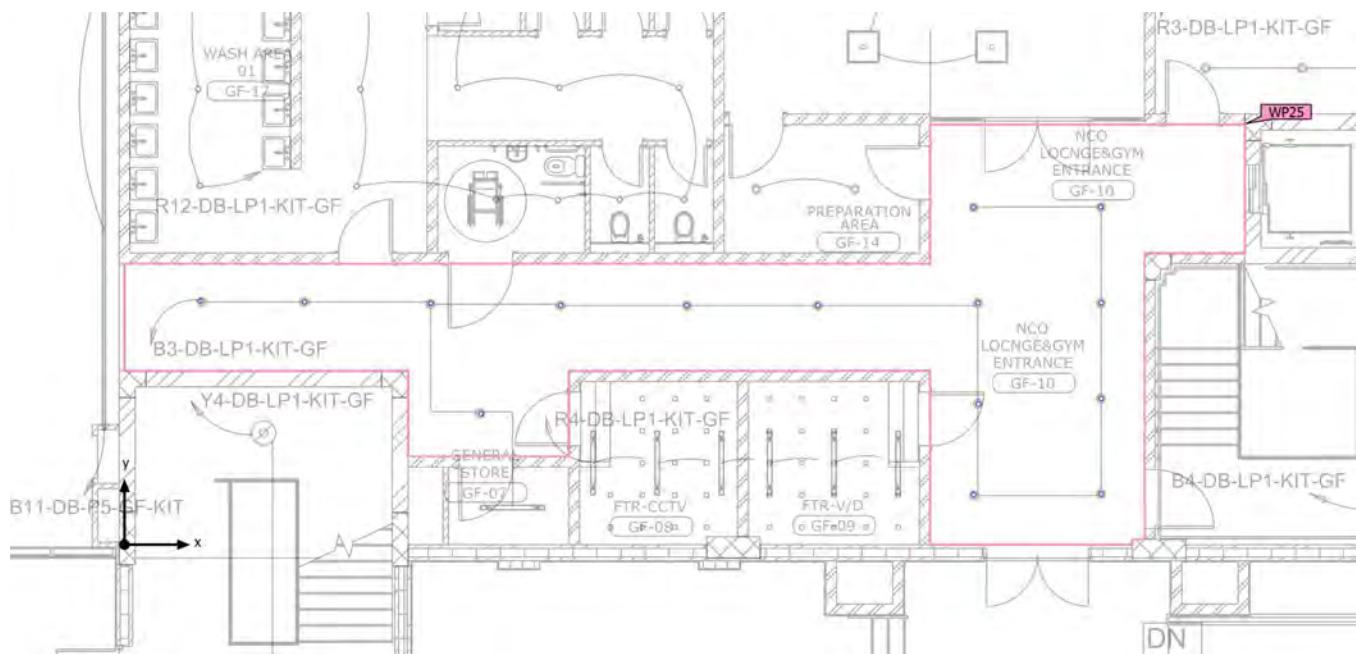
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · NCO Lounge & Gym Entrance

Description

Building 1 · Storey 1 · NCO Lounge & Gym Entrance (Light scene 1)

Summary



Ground area	70.78 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.000 m

Building 1 · Storey 1 · NCO Lounge & Gym Entrance (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	143 lx
	$U_o (g_1)$	0.092
Energy estimation ⁽²⁾	Consumption	408 kWh/a

(1) Based on a rectangular space of 7.850 m x 20.925 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	RUG	P	Φ	Luminous efficacy
15	FRATER	DLG5-010	COB GEMINI 05	-	11.0 W	1066 lm	96.9 lm/W

Building 1 · Storey 1 · NCO Lounge & Gym Entrance (Light scene 1)

Working plane (NCO Lounge & Gym Entrance)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (NCO Lounge & Gym Entrance)	143 lx	13.2 lx	219 lx	0.092	0.060	WP25
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						

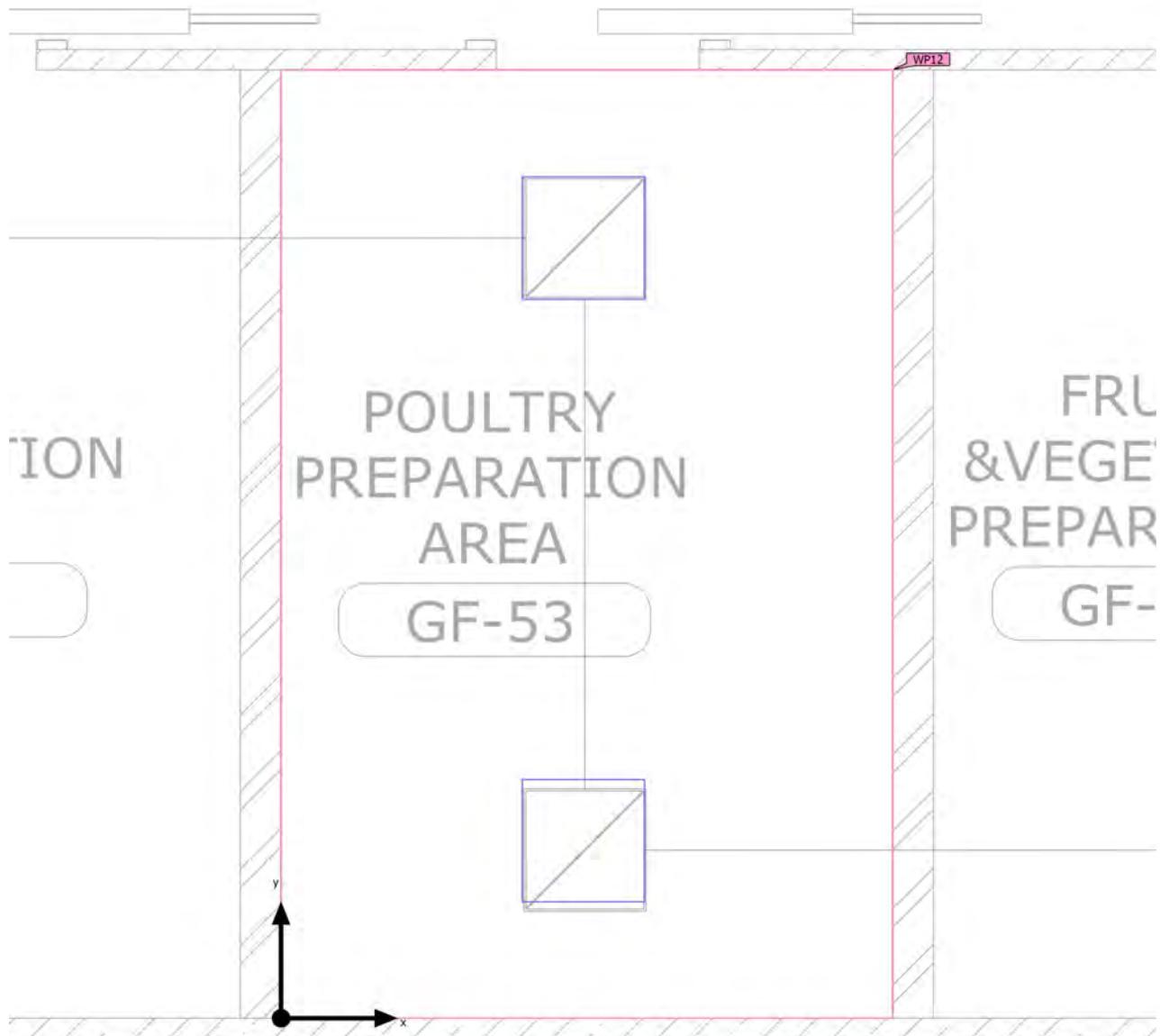
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Poultry Preparation Area

Description

Building 1 · Storey 1 · Poultry Preparation Area (Light scene 1)

Summary



Ground area	13.95 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.800 m

Building 1 · Storey 1 · Poultry Preparation Area (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	260 lx
	$U_o (g_1)$	0.76
Energy estimation ⁽²⁾	Consumption	238 kWh/a

(1) Based on a rectangular space of 4.650 m x 3.000 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

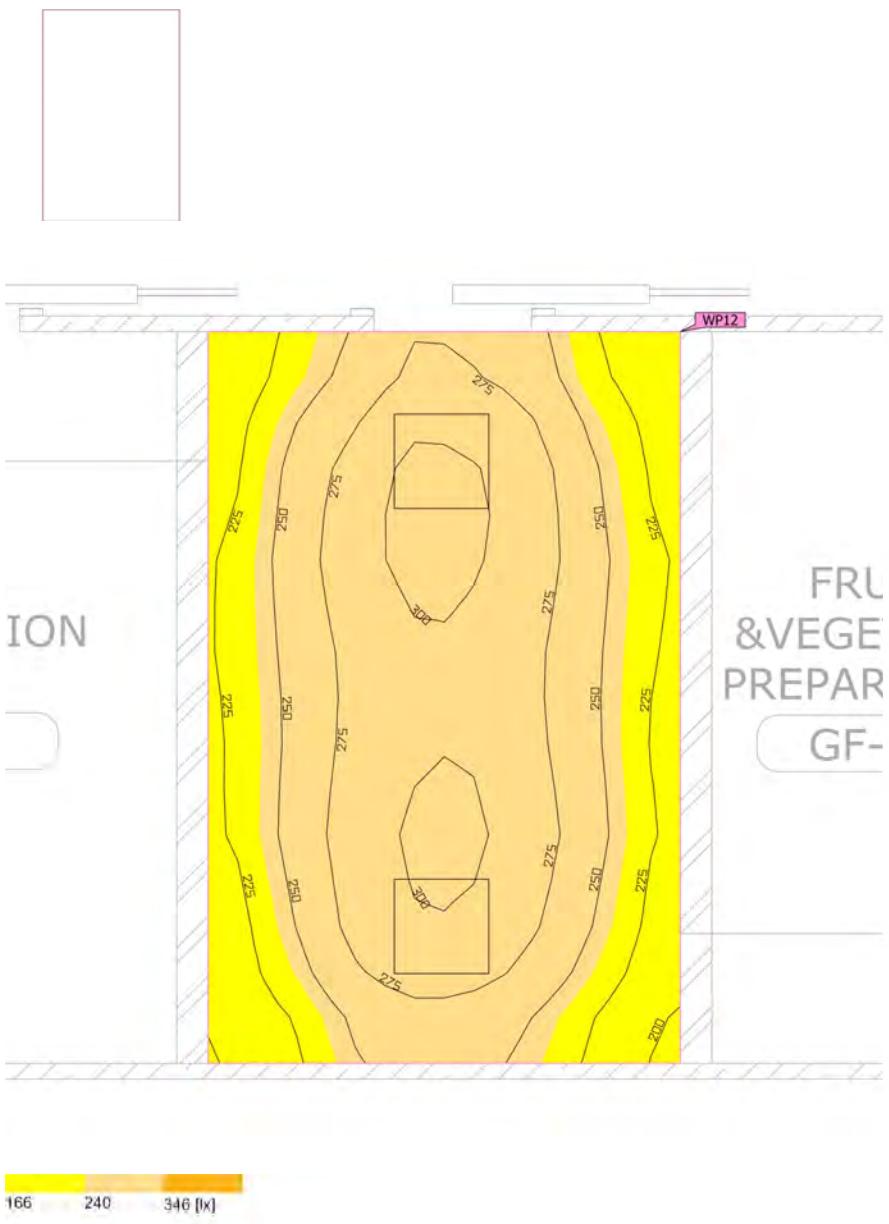
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
2	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	-	48.0 W	4800 lm	100.0 lm/W

Building 1 · Storey 1 · Poultry Preparation Area (Light scene 1)

Working plane (Poultry Preparation Area)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Poultry Preparation Area)	260 lx	197 lx	306 lx	0.76	0.64	WP12
Perpendicular illuminance (adaptive)						
Height: 0.800 m, Wall zone: 0.000 m						

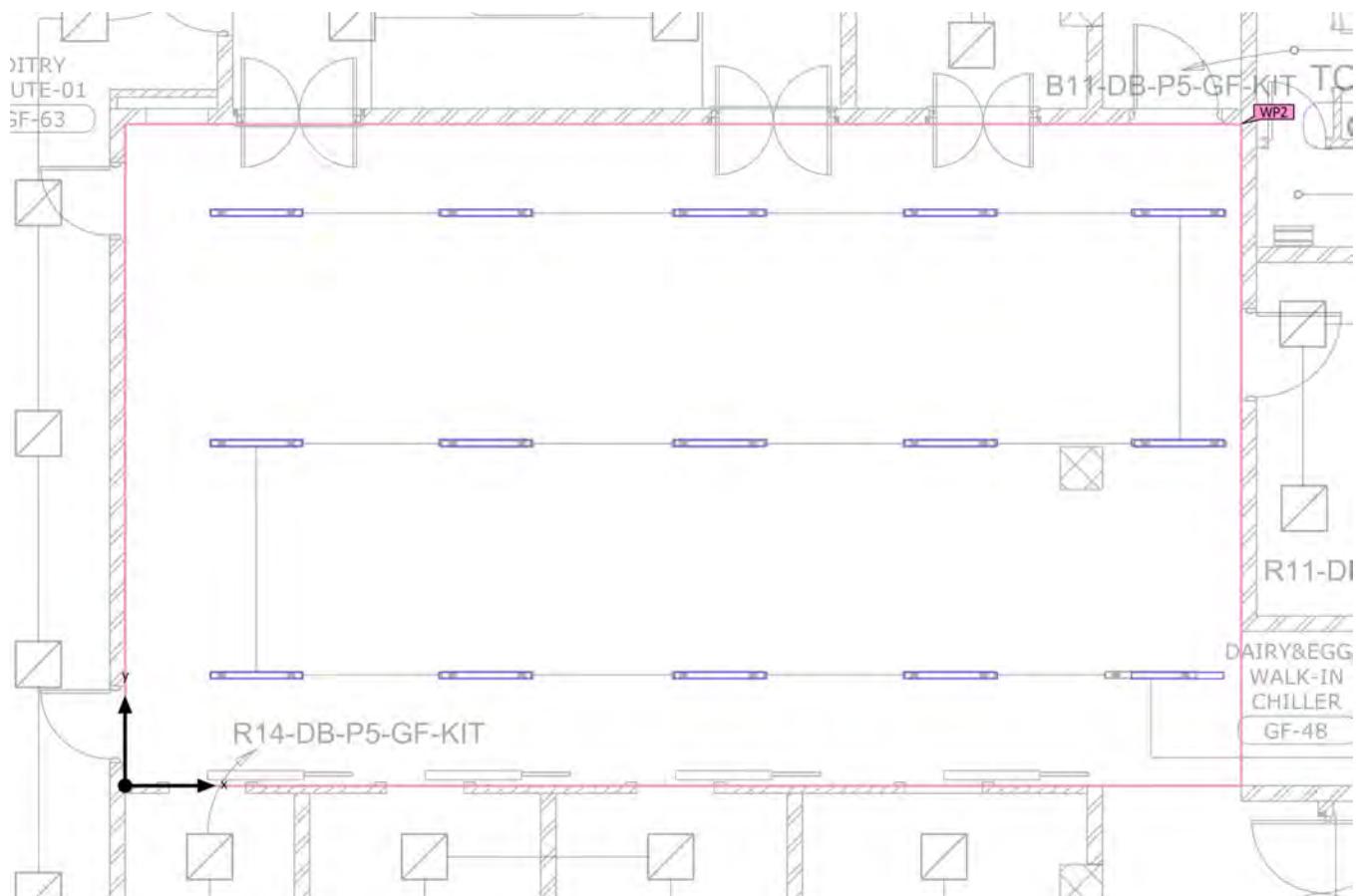
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Preparation Room

Description

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

Summary



Ground area	124.70 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.800 m
		Wall zone Working plane	0.000 m

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

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	356 lx
	$U_o (g_1)$	0.52
Energy estimation ⁽²⁾	Consumption	1466 kWh/a

(1) Based on a rectangular space of 8.600 m x 14.500 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

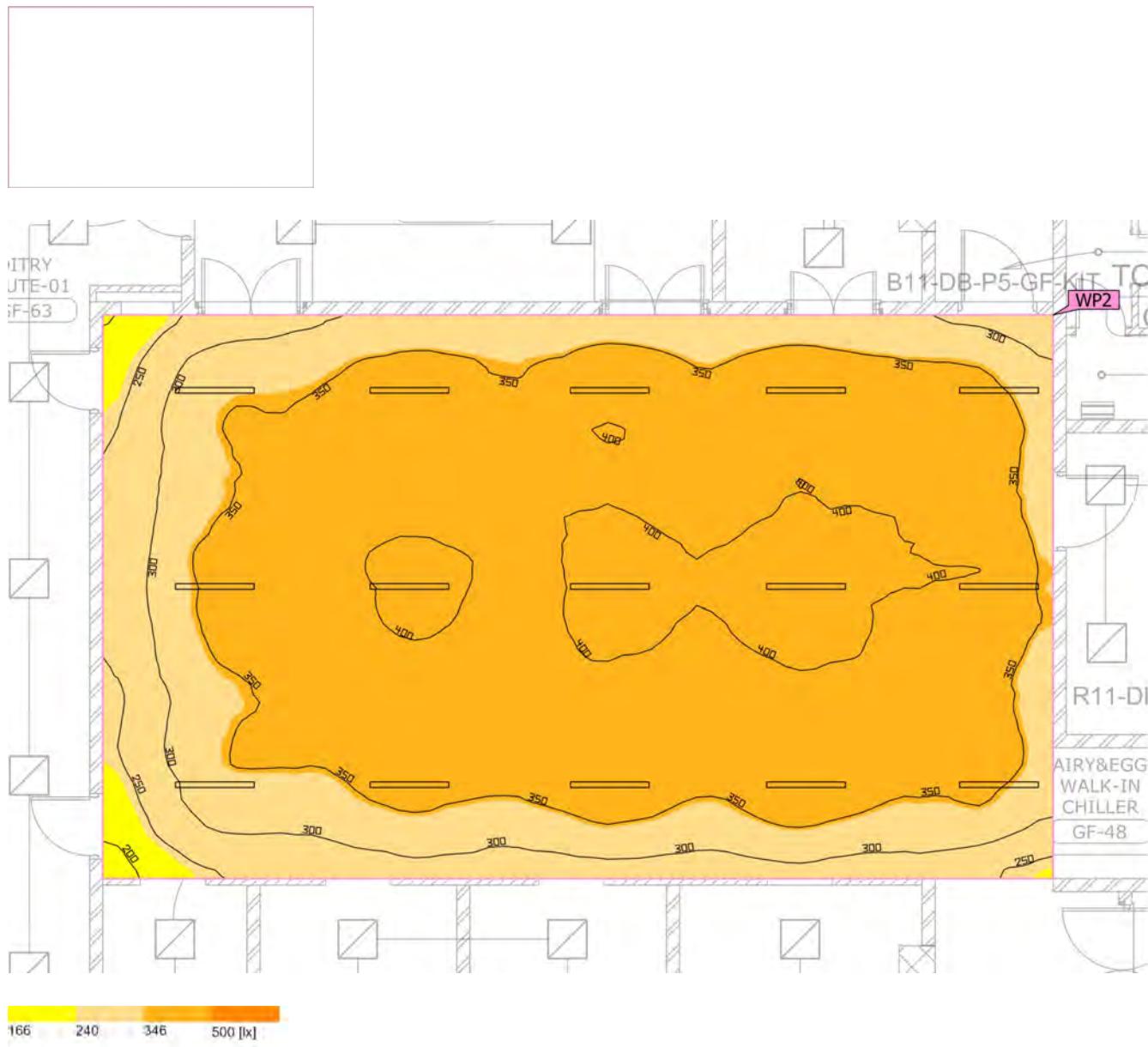
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
15	FRATER	WPCA-040	WEATHERPROOF CALIBER	-	39.5 W	4952 lm	125.4 lm/W

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

Working plane (Preparation Room)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Preparation Room)	356 lx	184 lx	427 lx	0.52	0.43	WP2
Perpendicular illuminance (adaptive)						
Height: 0.800 m, Wall zone: 0.000 m						

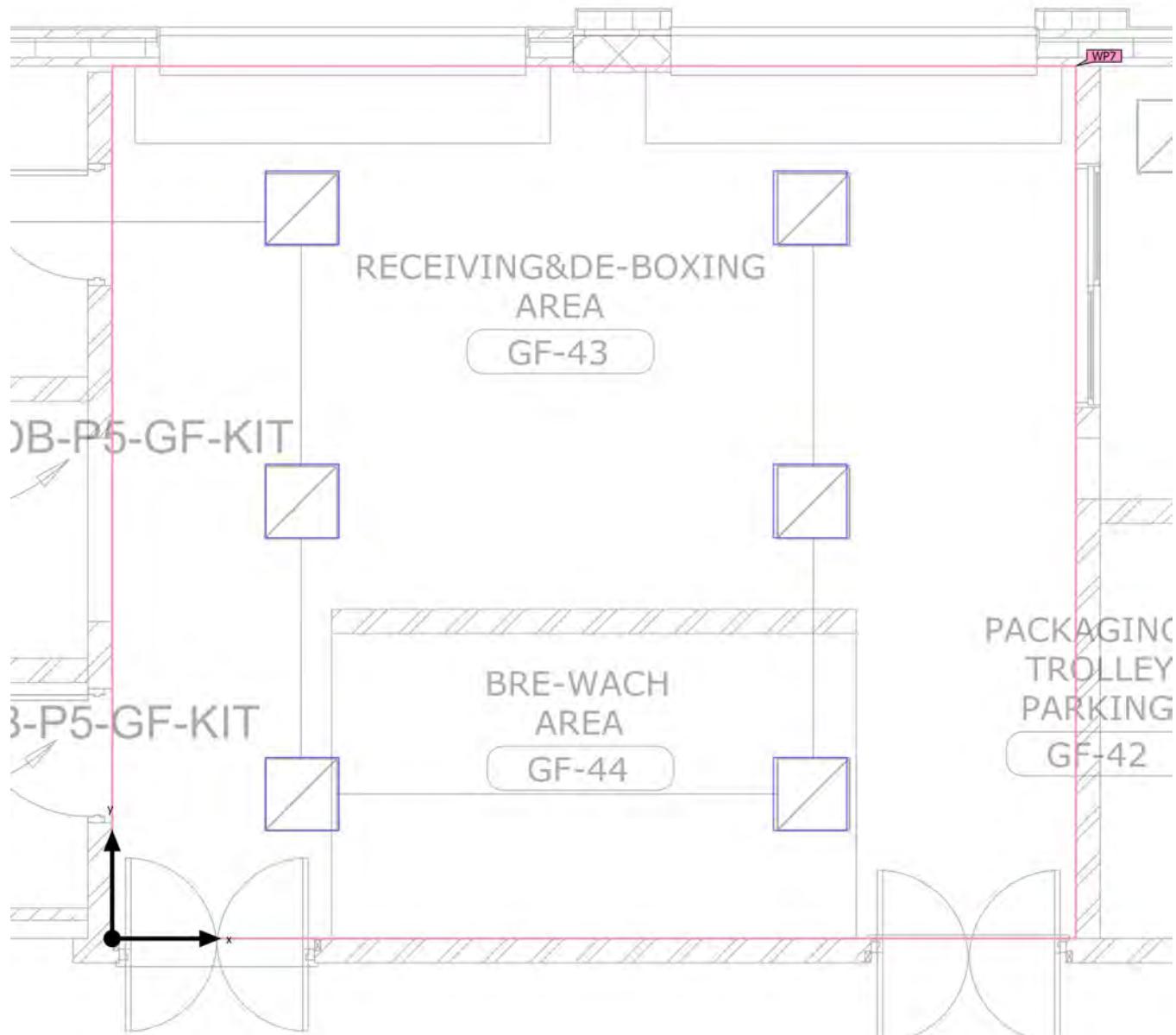
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Receiving & De-Boxing Area

Description

Building 1 · Storey 1 · Receiving & De-Boxing Area (Light scene 1)

Summary



Ground area	56.48 m ²
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.500 m
Mounting height	3.500 m
Height Working plane	0.000 m
Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Receiving & De-Boxing Area (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	261 lx
	$U_o (g_1)$	0.59
Energy estimation ⁽²⁾	Consumption	713 kWh/a

(1) Based on a rectangular space of 7.150 m x 7.900 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

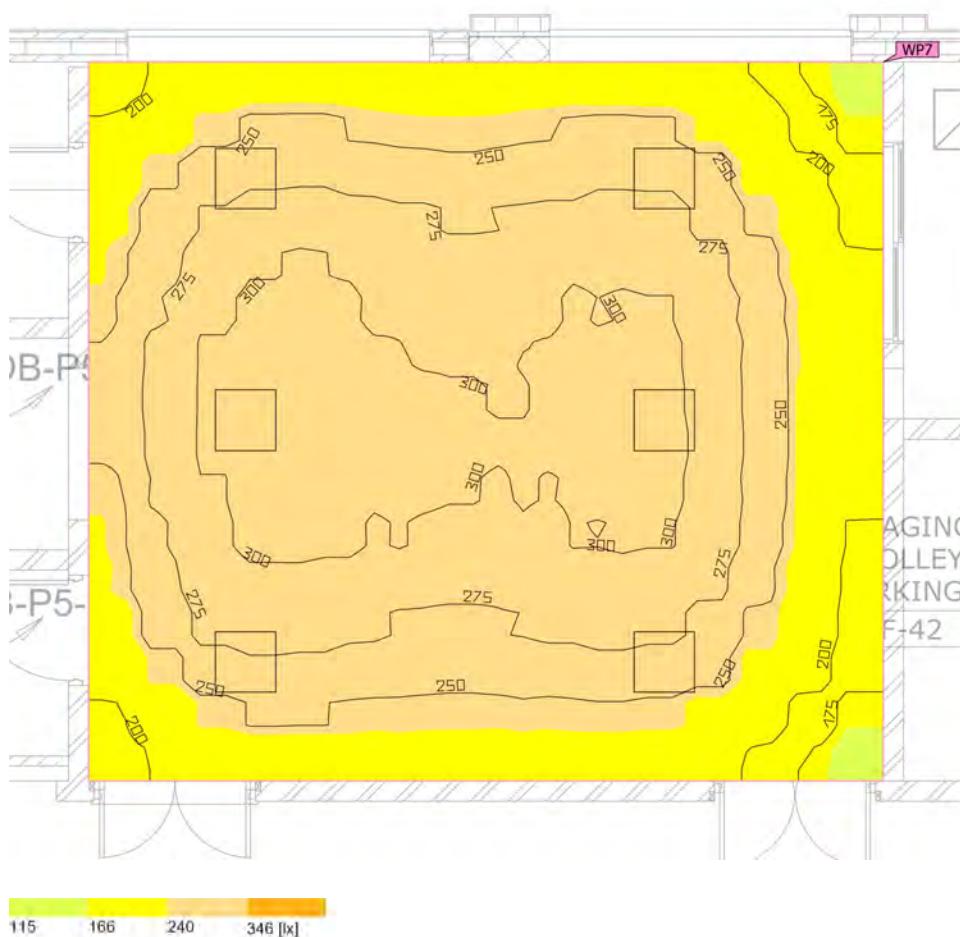
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
6	FRATER	BP10-048	LED BACK LIGHT PANEL BP10	-	48.0 W	4800 lm	100.0 lm/W

Building 1 · Storey 1 · Receiving & De-Boxing Area (Light scene 1)

Working plane (Receiving & De-Boxing Area)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Receiving & De-Boxing Area) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	261 lx	155 lx	316 lx	0.59	0.49	WP7

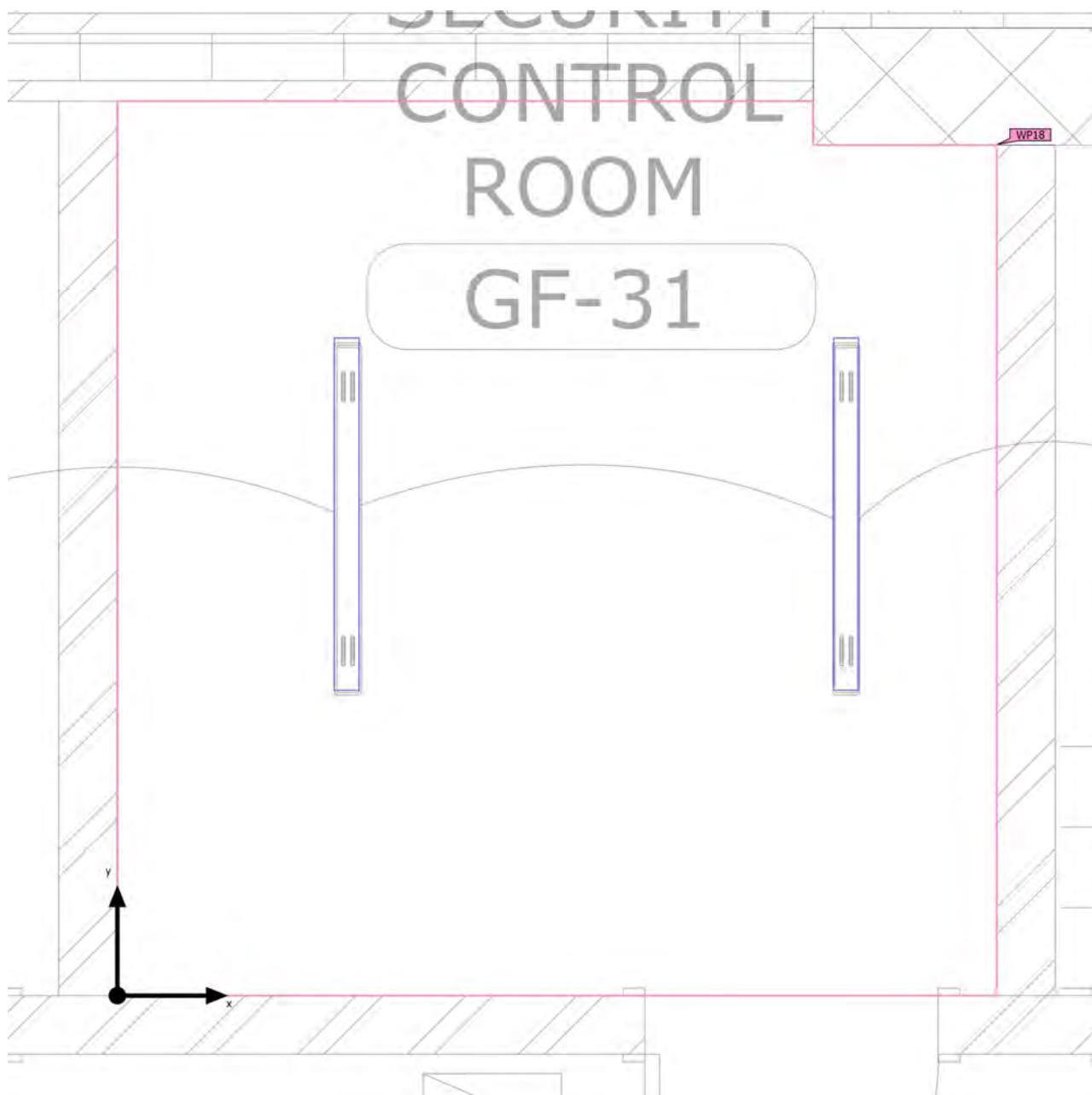
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Security Control Room

Description

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

Summary



Ground area	9.06 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.000 m

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

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	237 lx
	$U_b (g_1)$	0.82
Energy estimation ⁽²⁾	Consumption	196 kWh/a

(1) Based on a rectangular space of 3.050 m x 3.000 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

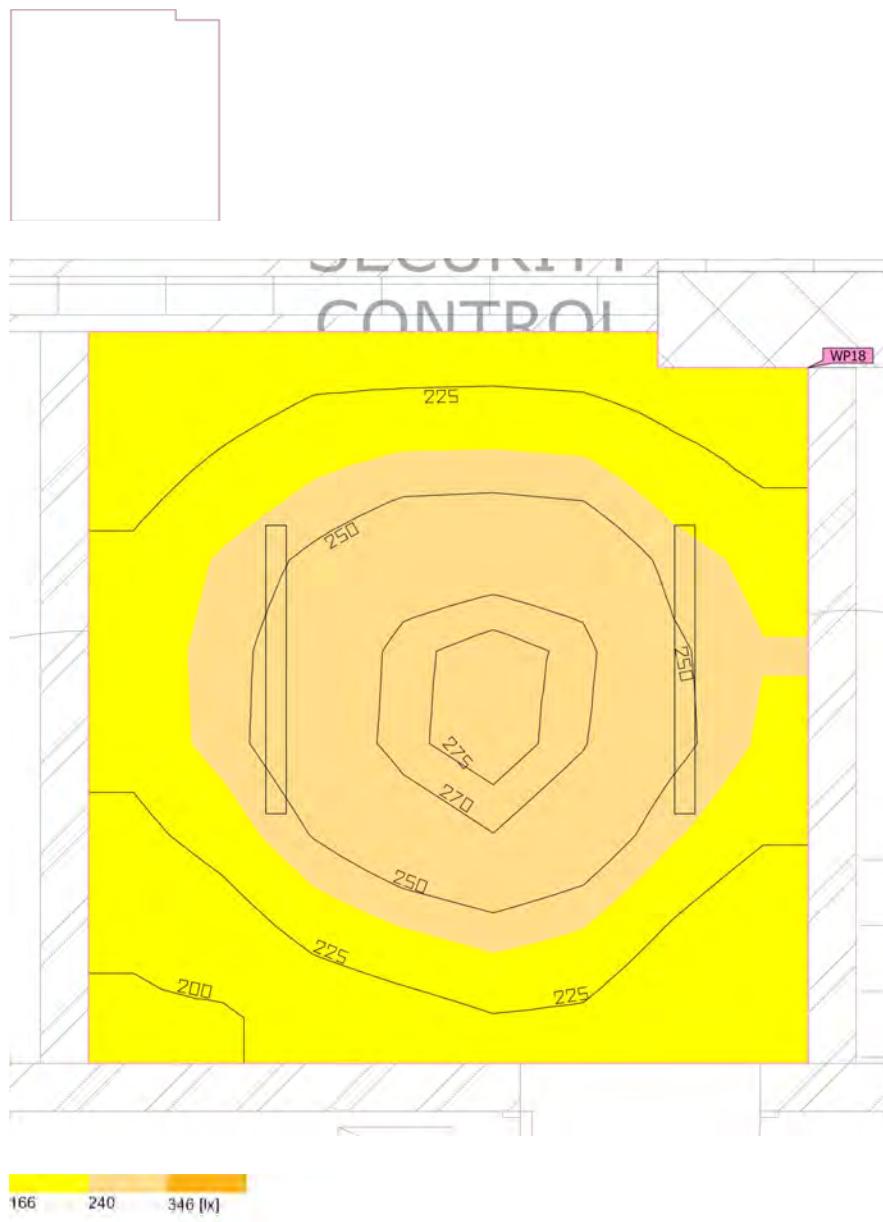
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
2	FRATER	WPCA-040	WEATHERPROOF CALIBER	-	39.5 W	4952 lm	125.4 lm/W

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

Working plane (Security Control Room)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Security Control Room) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	237 lx	195 lx	276 lx	0.82	0.71	WP18

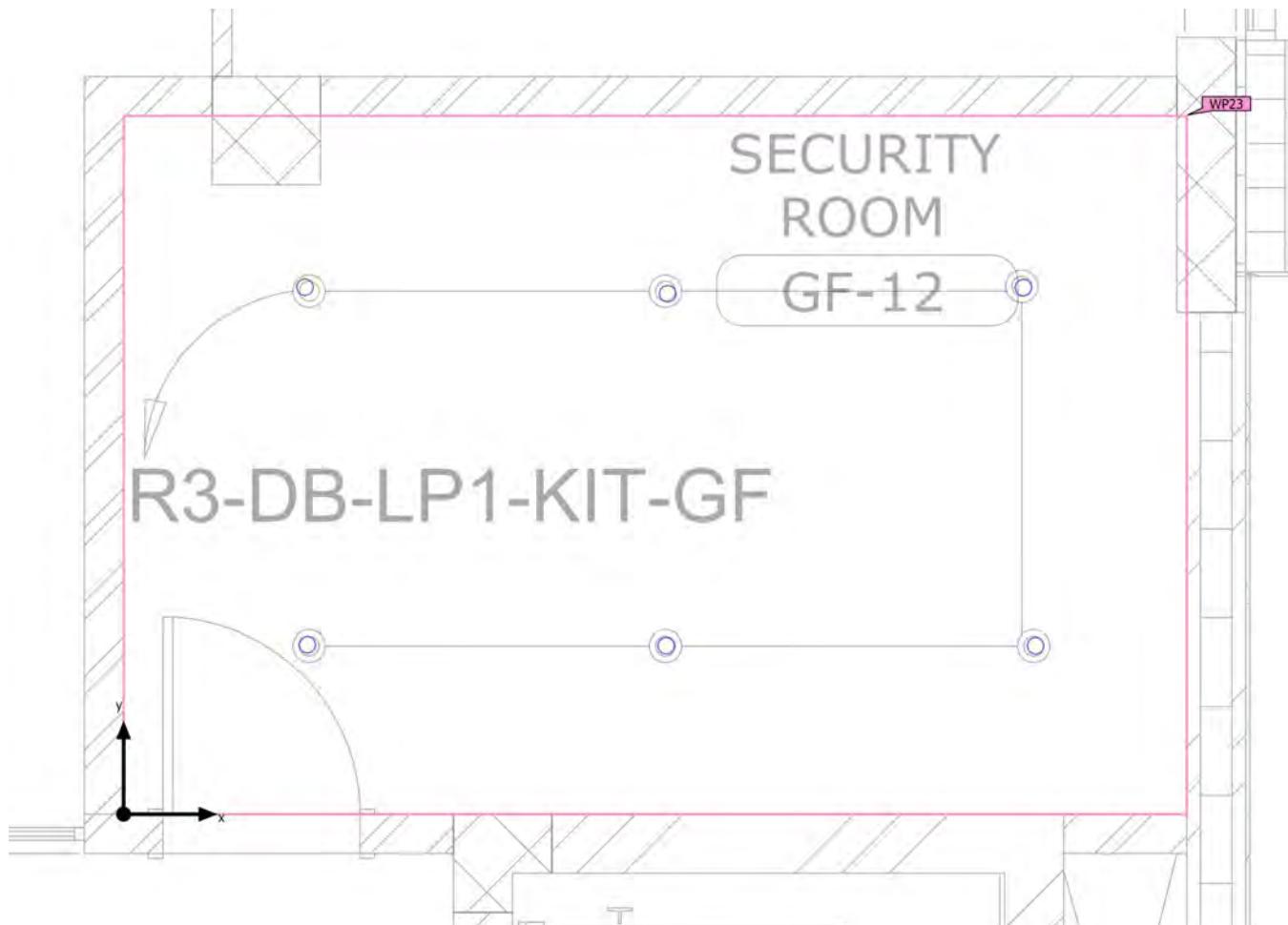
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Security Room

Description

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

Summary



Ground area	19.17 m ²	Clearance height	3.500 m
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %	Mounting height	3.500 m
Maintenance factor	0.80 (fixed)	Height Working plane	0.000 m
		Wall zone Working plane	0.000 m

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

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	199 lx
	$U_o (g_1)$	0.48
Energy estimation ⁽²⁾	Consumption	163 kWh/a

(1) Based on a rectangular space of 3.550 m x 5.400 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

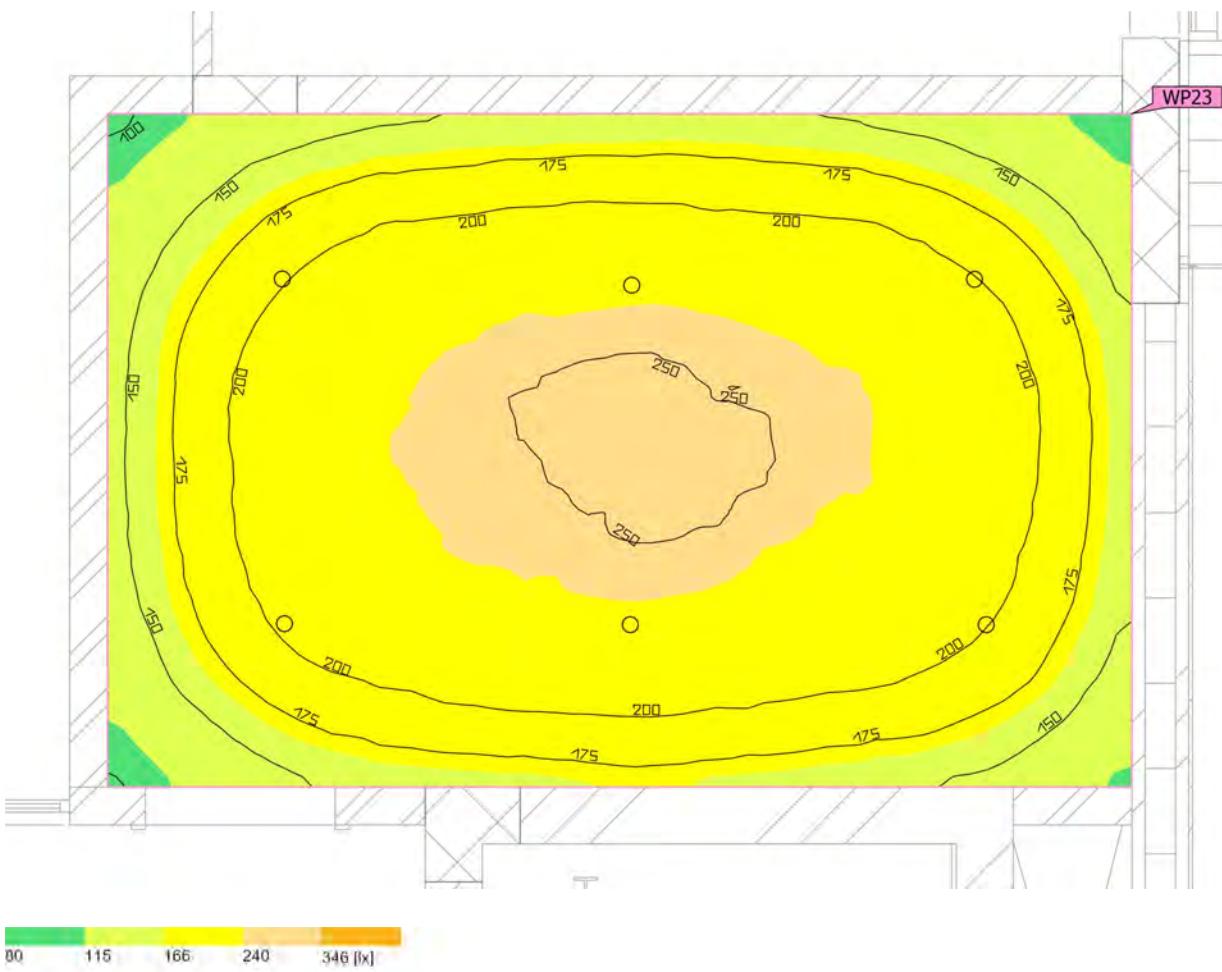
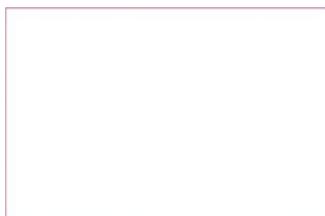
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
6	FRATER	DLG5-010	COB GEMINI 05	-	11.0 W	1066 lm	96.9 lm/W

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

Working plane (Security Room)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Security Room) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	199 lx	96.4 lx	257 lx	0.48	0.38	WP23

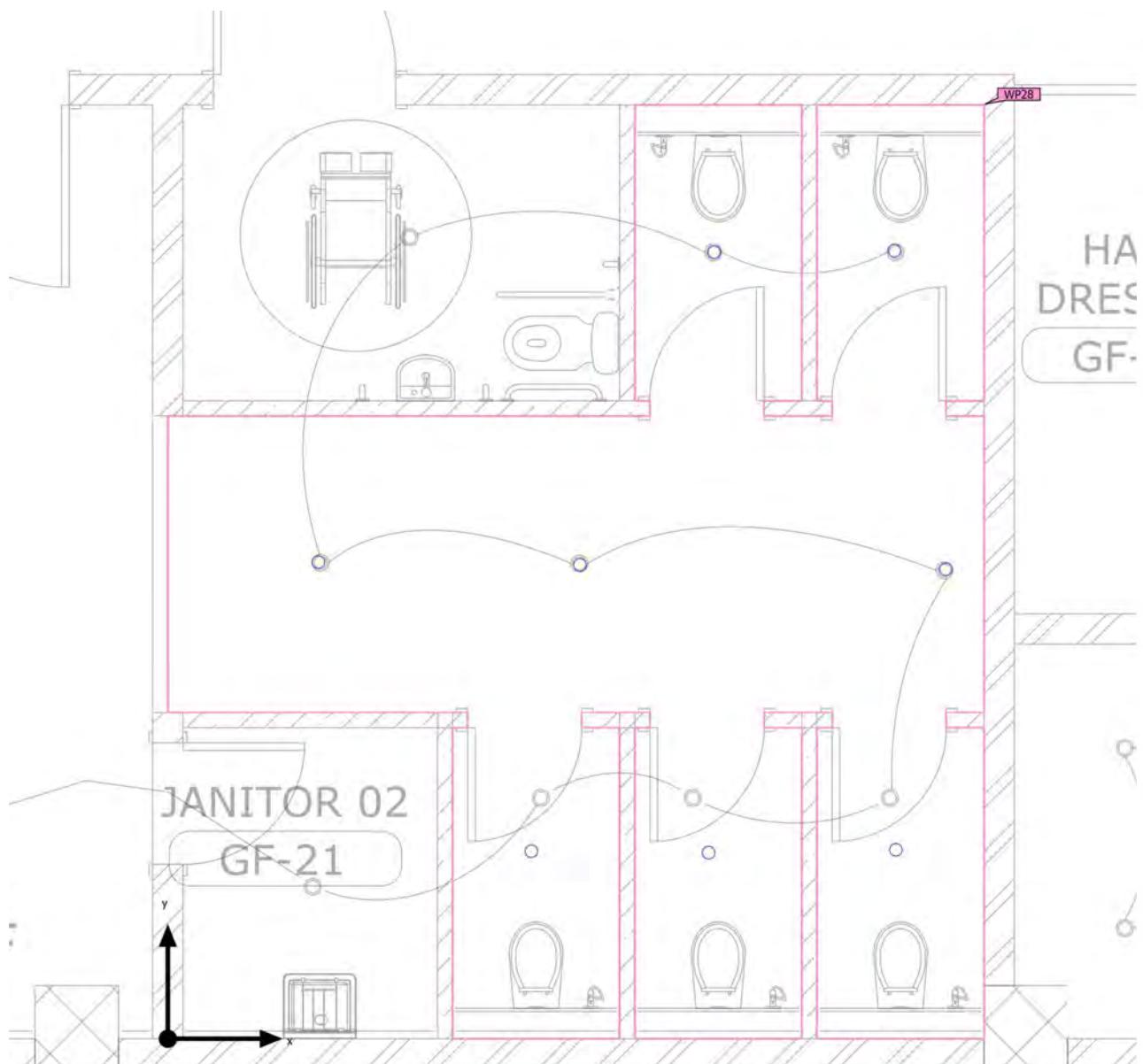
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Toilet

Description

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

Summary



Ground area	21.91 m ²
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.500 m
Mounting height	3.500 m
Height Working plane	0.000 m
Wall zone Working plane	0.000 m

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

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	153 lx
	$U_o (g_1)$	0.53
Energy estimation ⁽²⁾	Consumption	218 kWh/a

(1) Based on a rectangular space of 6.150 m x 5.375 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	RUG	P	Φ	Luminous efficacy
8	FRATER	DLG5-010	COB GEMINI 05	-	11.0 W	1066 lm	96.9 lm/W

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

Working plane (Toilet)

Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Toilet)	153 lx	80.9 lx	229 lx	0.53	0.35	WP28
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						

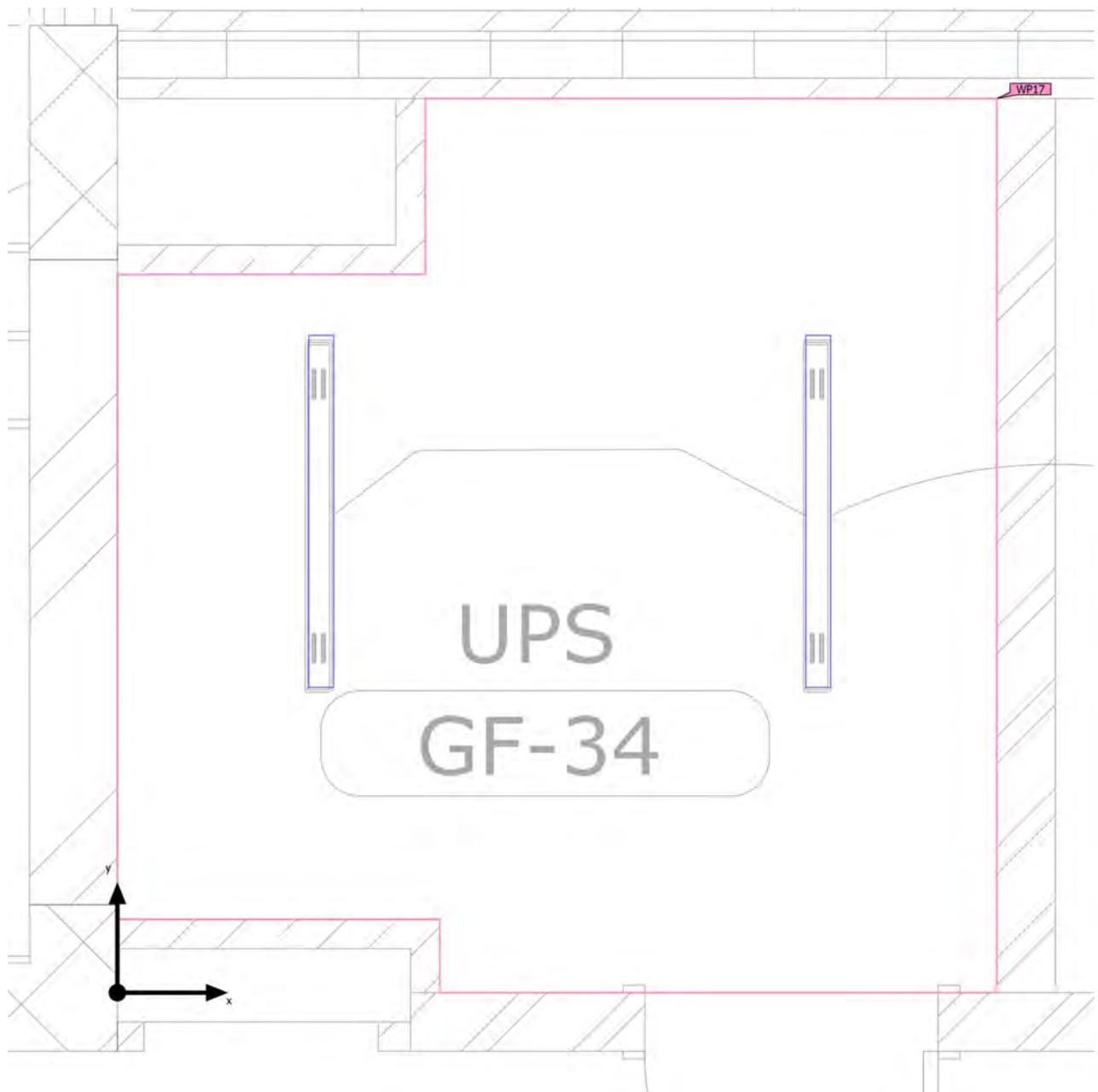
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · UPS Room

Description

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

Summary



Ground area	8.25 m ²
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.500 m
Mounting height	3.500 m
Height Working plane	0.000 m
Wall zone Working plane	0.000 m

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

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	239 lx
	$U_b (g_1)$	0.76
Energy estimation ⁽²⁾	Consumption	196 kWh/a

(1) Based on a rectangular space of 3.050 m x 3.000 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

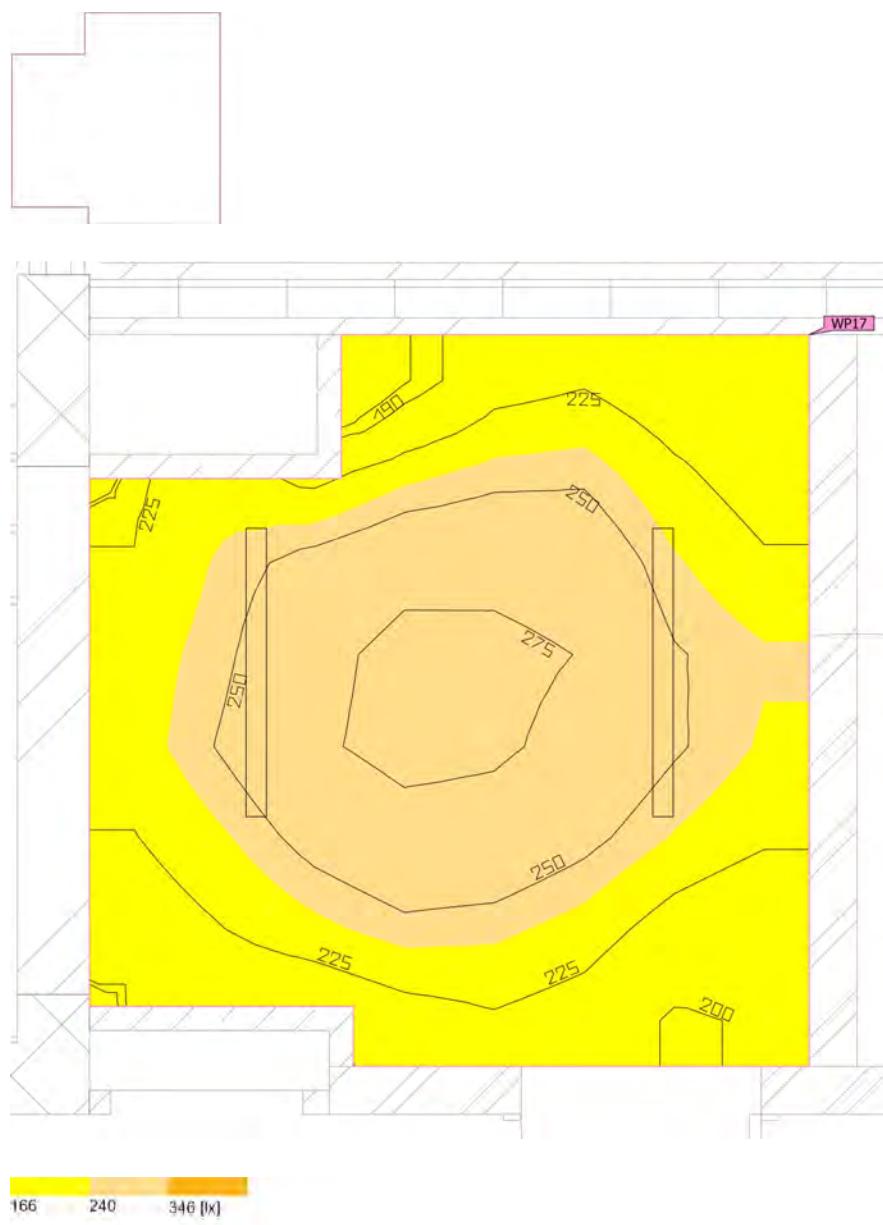
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
2	FRATER	WPCA-040	WEATHERPROOF CALIBER	-	39.5 W	4952 lm	125.4 lm/W

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

Working plane (UPS Room)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (UPS Room)	239 lx	181 lx	280 lx	0.76	0.65	WP17
Perpendicular illuminance (adaptive)						
Height: 0.000 m, Wall zone: 0.000 m						

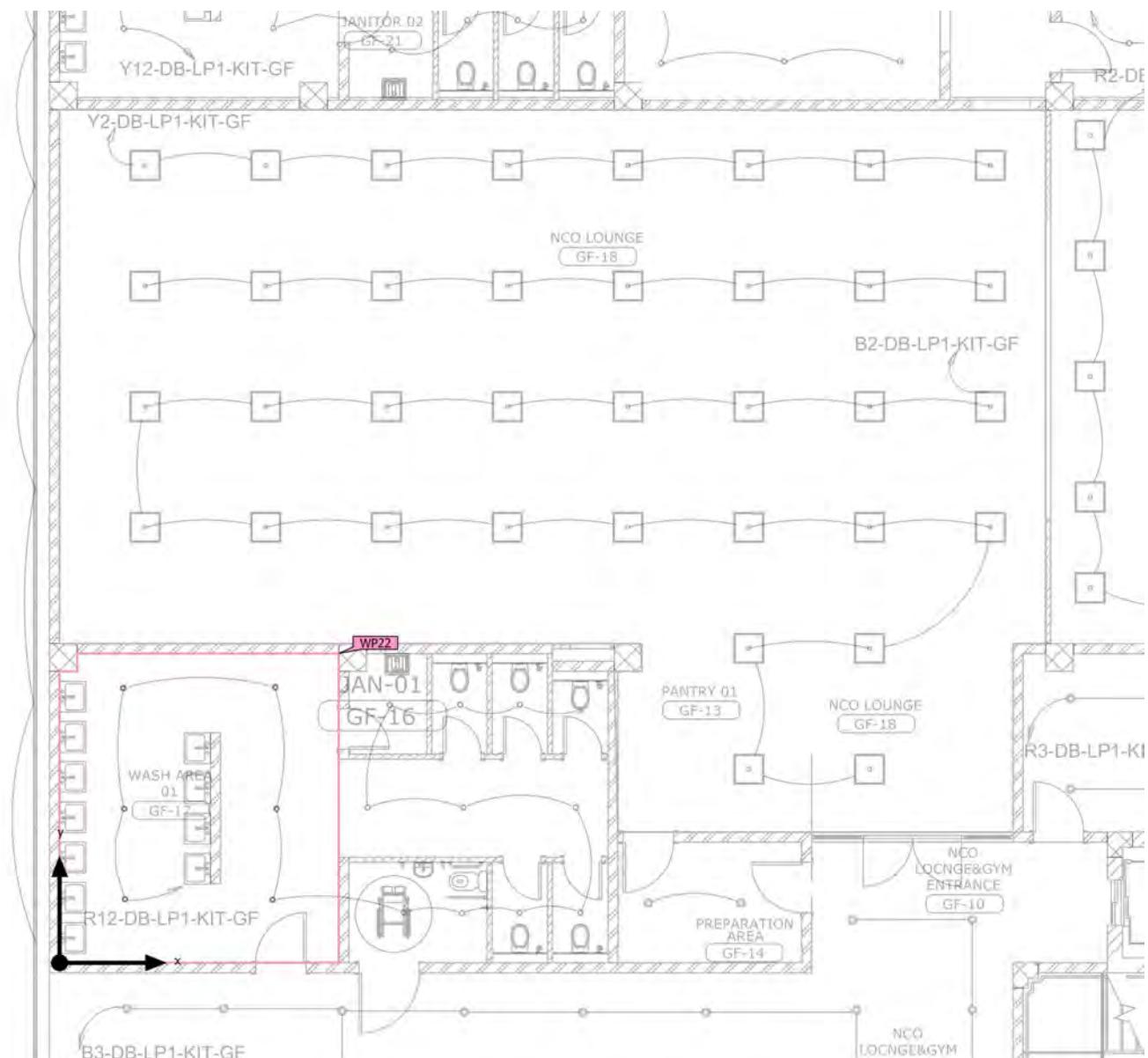
Utilisation profile: DIALux presetting (34.2 Standard (office))

Building 1 · Storey 1 · Wash Area

Description

Building 1 · Storey 1 · Wash Area (Light scene 1)

Summary



Ground area	34.01 m ²
Reflection factors	Ceiling: 50.0 %, Walls: 50.0 %, Floor: 20.0 %
Maintenance factor	0.80 (fixed)

Clearance height	3.500 m
Mounting height	3.500 m
Height Working plane	0.000 m
Wall zone Working plane	0.000 m

Building 1 · Storey 1 · Wash Area (Light scene 1)

Summary

Results

	Symbol	Calculated
Working plane	$\bar{E}_{\text{perpendicular}}$	127 lx
	$U_o (g_1)$	0.39
Energy estimation ⁽²⁾	Consumption	163 kWh/a

(1) Based on a rectangular space of 6.150 m x 5.550 m and SHR of 0.25.

(2) Calculated using DIN:18599-4.

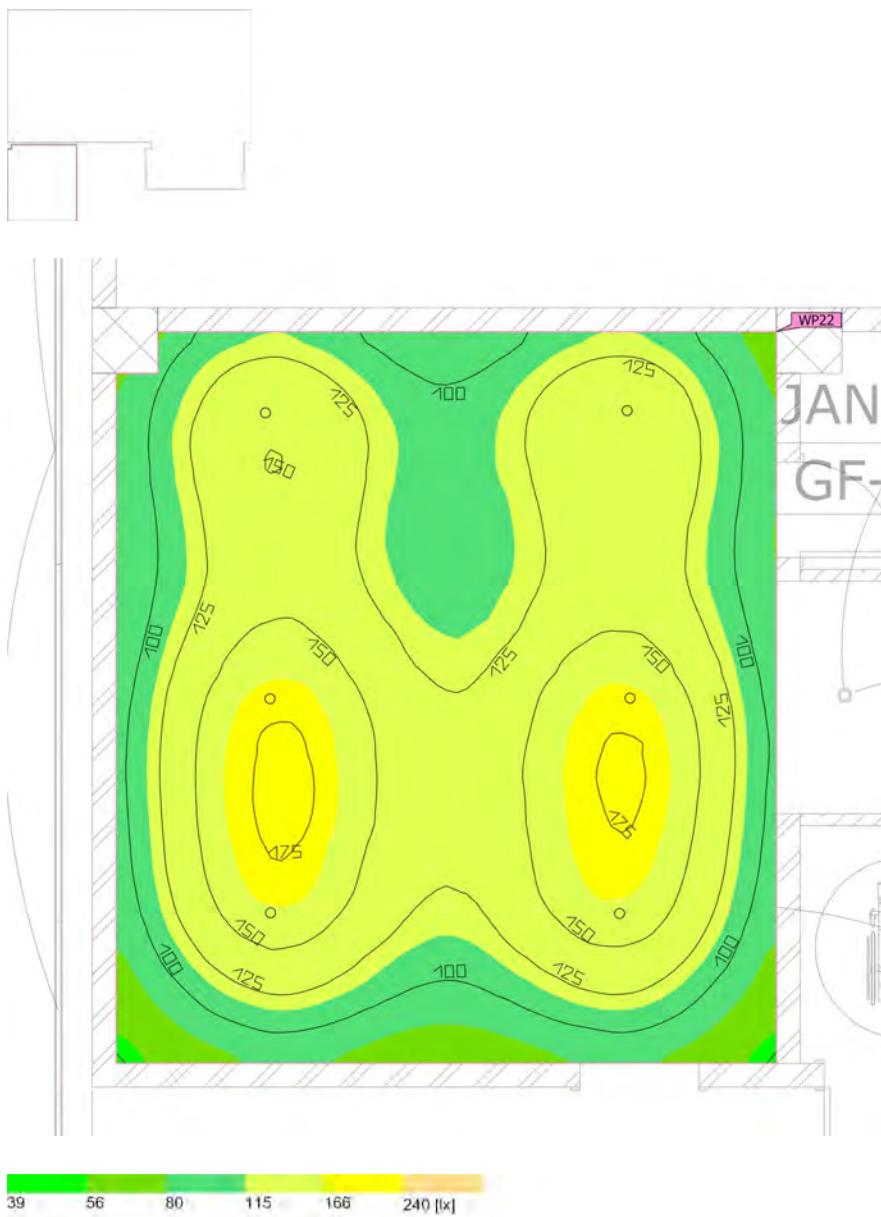
Utilisation profile: DIALux presetting (34.2 Standard (office))

Luminaire list

pcs.	Manufacturer	Article No.	Article name	RUG	P	Φ	Luminous efficacy
6	FRATER	DLG5-010	COB GEMINI 05	-	11.0 W	1066 lm	96.9 lm/W

Building 1 · Storey 1 · Wash Area (Light scene 1)

Working plane (Wash Area)



Properties	\bar{E}	E_{\min}	E_{\max}	$U_o (g_1)$	g_2	Index
Working plane (Wash Area) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	127 lx	49.7 lx	180 lx	0.39	0.28	WP22

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