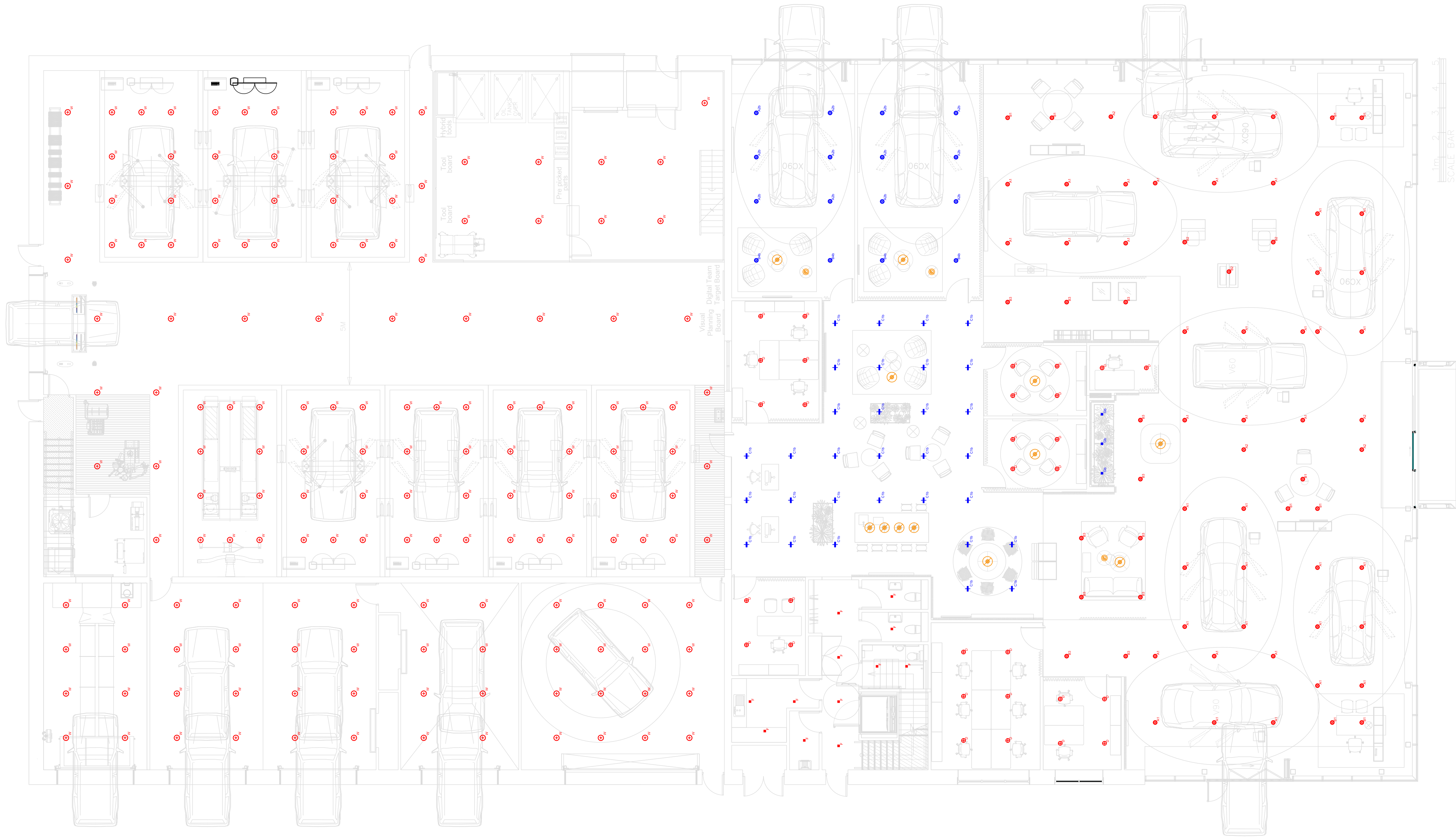




A1  **Tecnica evo** Ø117 RN66.01
Ø117mm Recessed adjustable DALI LED
luminaire
37.4W, 4182lm, 4000K, CRI 90
Optic: Flood 22°
Finish: White
Quantity: x 42

A2  **Tecnica evo** Ø117 RN36.01
Ø117mm Recessed adjustable DALI LED
luminaire
28.3W, 3552lm, 4000K, CRI 90
Optic: Wide flood 42°
Finish: White
Quantity: x 04

A2b  **Tecnica evo** Ø117 RN36.04
Ø117mm Recessed adjustable DALI LED
luminaire
28.3W, 3552lm, 4000K, CRI 90
Optic: Wide flood 42°
Finish: Black
Quantity: x 12

B1  **Tecnica Evo** Ø117 RN63.01
Ø117mm Recessed adjustable DALI LED
luminaire
37.4W, 4194lm, 3000K, CRI 90
Optic: Flood 32°
Finish: White
Quantity: x 09

B2  **Tecnica Evo** Ø117 RN30.01
Ø117mm Recessed adjustable DALI LED
luminaire
28.3W, 3077lm, 3000K, CRI 90
Optic: Medium 22°
Finish: White
Quantity: x 03

B3  **Tecnica Evo** Ø117 RN31.01
Ø117mm Recessed adjustable DALI LED
luminaire
28.3W, 3428lm, 3000K, CRI 90
Optic: Flood 32°
Finish: White
Quantity: x 11

B4b  **Tecnica Evo** Ø117 RN33.04
Ø117mm Recessed adjustable DALI LED
luminaire
28.3W, 3439lm, 3000K, CRI 90
Optic: Very wide flood 52°
Finish: Black
Quantity: x 04

C1b  **Laser blade** XS LBXS-000593
DALI PSU XA97.00
184x27x50mm Surface-mounted,
rectangular, DALI, LED luminaire
17W, 1785lm, 3000K, CRI 90
Optic: Wide Flood 57°
Finish: Black
Quantity: x 31

D  **Easy space** QV86.D8
Ø163mm Recessed fixed round DALI LED
luminaire
16.8W, 2229lm, 3000K, CRI 90
Optic: General lighting
Finish: White/ Transparent
Quantity: x 81

F  **Laser Evo Cone** LSEVO-AAH6HS
ø96mm Recessed fixed round DALI LED
luminaire
19.2W, 2110lm, 3000K, CRI 90
Optic: Wide Flood 56°
Finish: White
Quantity: x 50

G0  **Laser Evo Cone** LSEVO-000021
ø96mm Recessed fixed round DALI LED
luminaire
8.4W, 660lm, 3000K, CRI 90
Optic: Flood
Finish: Black
Quantity: x 03

W  **Easy general light** QF74.39
Ø225mm Recessed fixed round DALI LED
luminaire
36.7W, 4664lm, 4000K, CRI 80
Optic: General lighting
Finish: White/ Aluminium
Quantity: x 170

Decorative pendant
Provided by other.

Decorative floor lamp
Provided by other.

Decorative floor lamp
Provided by other.

Decorative floor lamp
Provided by other.

Decorative floor lamp
Provided by other.

Decorative floor lamp
Provided by other.

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Provided by other.

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Provided by other.

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Provided by other.

Decorative floor lamp
Provided by other.

Decorative floor lamp
Provided by other.

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NOT FOR CONSTRUCTION

CLIENT
Volvo

PROJECT
Volvo Generic Scheme

OPPORTUNITY NUMBER
25-13608-K3G0

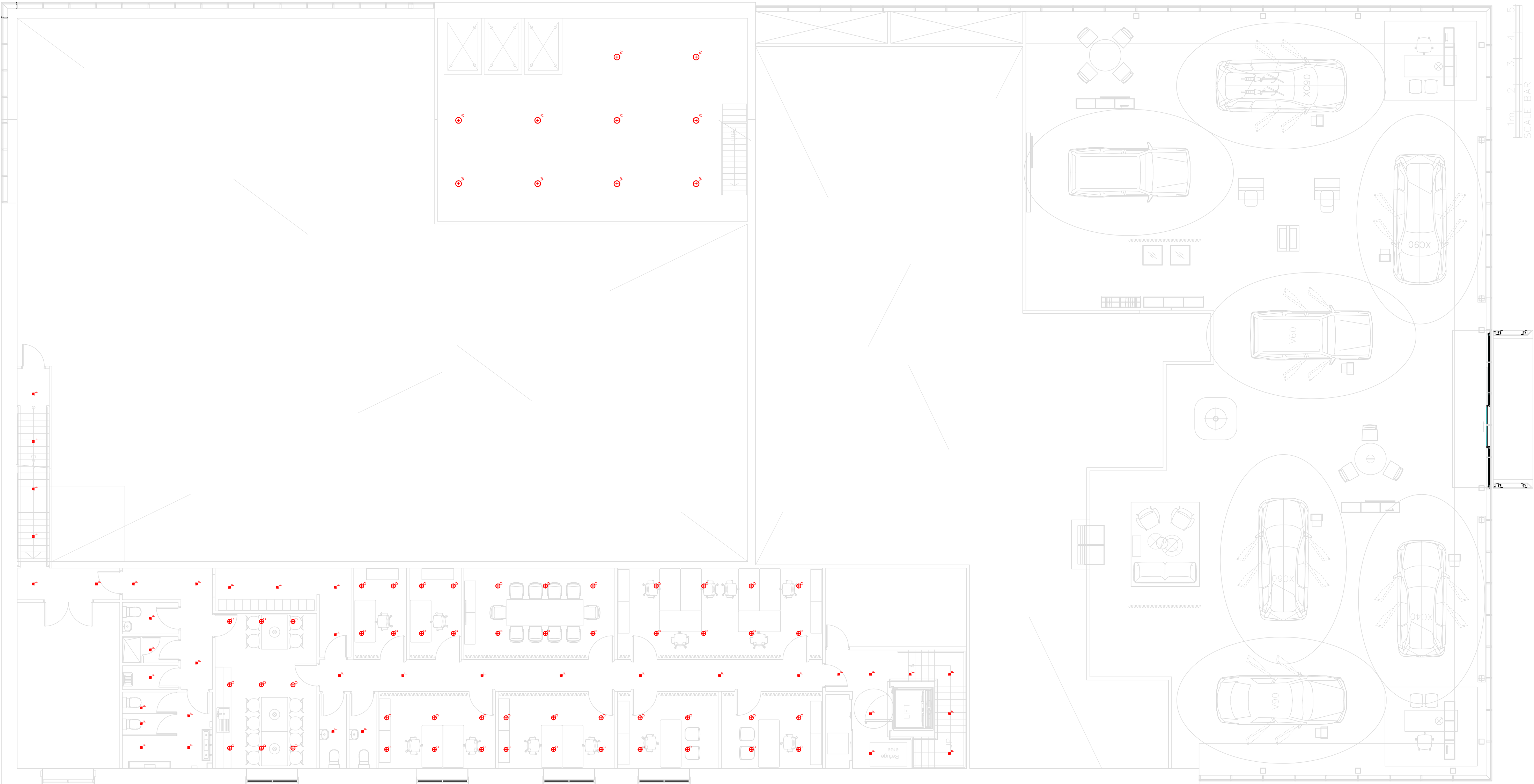
DRAWING TITLE
D - Volvo Generic Scheme GF - REV 2

DESIGNER	PM	DATE	REVISION
FL	LT	04-09-26	2

SCALE	CHECKED	DWG No.
1:100 @ A1	-	N/A

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E: info.uk@iguzzini.com
www.iguzzini.com



A1	Tecnica evo Ø117 Ø117mm Recessed adjustable DALI LED luminaire 37.4W, 4182lm, 4000K, CRI 90 Optic: Flood 22° Finish: White Quantity: x 42	
A2	Tecnica evo Ø117 Ø117mm Recessed adjustable DALI LED luminaire 28.3W, 3552lm, 4000K, CRI 90 Optic: Wide flood 42° Finish: White Quantity: x 04	
A2b	Tecnica evo Ø117 Ø117mm Recessed adjustable DALI LED luminaire 28.3W, 3552lm, 4000K, CRI 90 Optic: Wide flood 42° Finish: Black Quantity: x 12	
B1	Tecnica Evo Ø117 Ø117mm Recessed adjustable DALI LED luminaire 37.4W, 4194lm, 3000K, CRI 90 Optic: Flood 32° Finish: White Quantity: x 09	
B2	Tecnica Evo Ø117 Ø117mm Recessed adjustable DALI LED luminaire 28.3W, 3077lm, 3000K, CRI 90 Optic: Medium 22° Finish: White Quantity: x 03	
B3	Tecnica Evo Ø117 Ø117mm Recessed adjustable DALI LED luminaire 28.3W, 3258lm, 3000K, CRI 90 Optic: Flood 32° Finish: White Quantity: x 11	
B4b	Tecnica Evo Ø117 Ø117mm Recessed adjustable DALI LED luminaire 28.3W, 3439lm, 3000K, CRI 90 Optic: Very wide flood 52° Finish: Black Quantity: x 04	
C1b	Laser blade XS LBXS-000593 DALI PSU XA97.00 184x27x50mm Surface-mounted, erctangular, DALI, LED luminaire 17W, 1785lm, 3000K, CRI 90 Optic: Wide Flood 57° Finish: Black Quantity: x 31	
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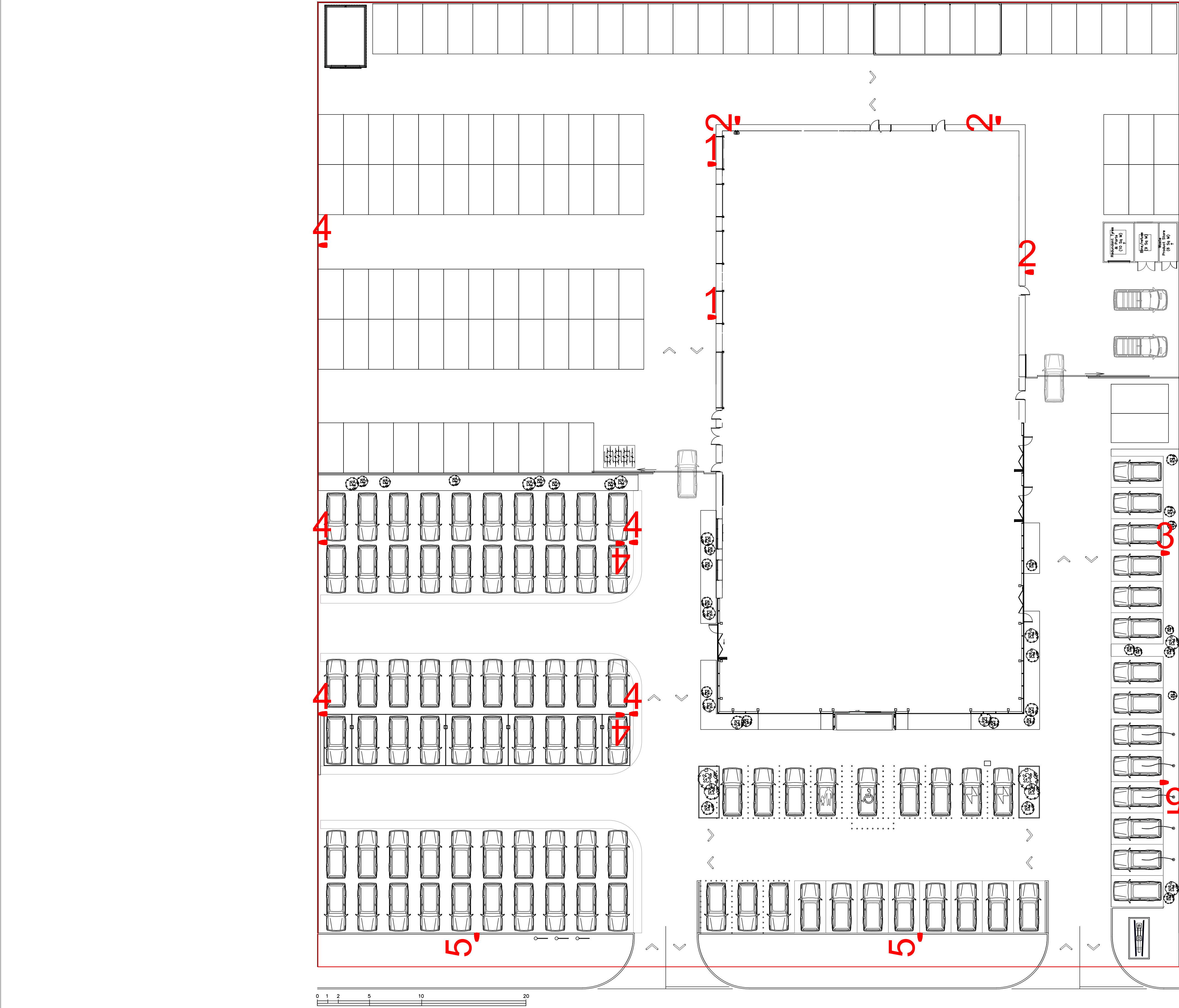
NOT FOR CONSTRUCTION

CLIENT	Volvo		
PROJECT	Volvo Generic Scheme		
OPPORTUNITY NUMBER	25-13608-K3G0		
DRAWING TITLE	D - Volvo Generic Scheme FF - REV 2		
DESIGNER	PM	DATE	REVISION
FL	LT	04-09-26	2
SCALE	CHECKED		DWG No.
1:100 @ A1	-		N/A

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1	Wow pole-top 758x415mm Pole and wall mounted LED street luminaire 20340lm, 162.3W, 3000K, CRI 70 Optic: A60 Asymmetric 60° Finish: Grey Quantity: 02	ED93.15	
2	Wow pole-top 758x415mm Pole and wall mounted LED street luminaire 13110lm, 101.2W, 3000K, CRI 70 Optic: A60 Asymmetric 60° Finish: Grey Quantity: 03	ED79.15	
3	Wow pole-top 620x307mm Pole and wall mounted LED street light luminaire 7600lm, 62.9W, 3000K, CRI 70 Optic: ST1.2 - Road optic Finish: Grey Quantity: 01	EC50.15	
4	Wow pole-top 620x307mm Pole and wall mounted LED street light luminaire 8620lm, 74.7W, 3000K, CRI 70 Optic: A60 Asymmetric 60° Finish: Grey Quantity: 07	EC56.15	
5	Wow pole-top 758x415mm Pole and wall mounted LED street luminaire 16070lm, 129.2W, 3000K, CRI 70 Optic: ST1.2 - road optic Finish: Grey Quantity: 03	ED85.15	
Columns + Mounting Accessories Finish: Grey			
Code	QT	Desc.	
UK08	09	6000mm Column	
6134.15	09	Pole reducer	
6165.15	02	Double pole-top	
6160.15	05	Wall adaptor	

NOT FOR CONSTRUCTION

CLIENT
Volvo

PROJECT
Volvo Externals

OPPORTUNITY NUMBER
LP-N6N0-Q5K9G8

DRAWING TITLE
D - Volvo External Generic
Scheme - REV 0

DESIGNER	PM	DATE	REVISION
FL	LT	11-09-26	0
SCALE	CHECKED		DWG No.
1:200 @ A1	-		N/A

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Lighting Calculation

Installation : Volvo General Scheme

Project number : 25-13608-K3G0

Customer : Volvo

Processed by : Freddy Lacaze

Date : 04.09.2026

Project description:
REV 2

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

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Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



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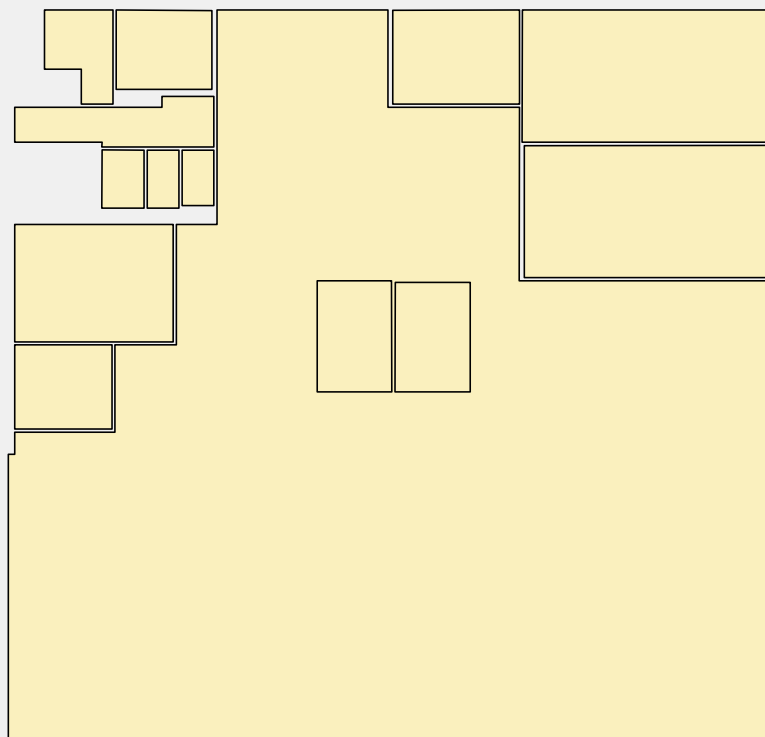
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Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



Summary, Ground Floor

.1 Floor overview



Number of rooms 14
Total area 790.0 m²
Total volume 3397.8 m³
Number of luminaires 160
Total luminous flux 531260 lm
Total power 4044 W
Total power per area 5.12 W/m²

 Calculated

Parts list

Type No.\Make

- | | | iGuzzini | |
|---|------|-----------------|-------------------------------|
| 1 | 42 x | Order No. | : RN66 |
|  | | Luminaire name | : Tecnica EVO ø117 downlights |
| | | Equipment | : 1 x LED 37.4 W / 4920 lm |
| 2 | 9 x | Order No. | : RN63 |
|  | | Luminaire name | : Tecnica EVO ø117 downlights |
| | | Equipment | : 1 x LED 37.4 W / 4660 lm |
| 3 | 3 x | Order No. | : RN30 |
|  | | Luminaire name | : Tecnica EVO ø117 downlights |
| | | Equipment | : 1 x LED 28.3 W / 3620 lm |

Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
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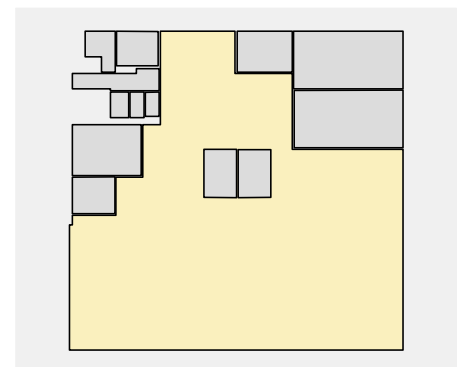
Summary, Ground Floor

.1 Floor overview

4	11 x	Order No.	: RN31
		Luminaire name	: Tecnica EVO ø117 downlights
		Equipment	: 1 x LED 28.3 W / 3620 lm
5	30 x	Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm
6	4 x	Order No.	: RN33
		Luminaire name	: Tecnica EVO ø117 downlights
		Equipment	: 1 x LED 28.3 W / 3620 lm
7	16 x	Order No.	: RN36
		Luminaire name	: Tecnica EVO ø117 downlights
		Equipment	: 1 x LED 28.3 W / 3820 lm
10	3 x	Order No.	: LSEVO-000021
		Luminaire name	: Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - F - Flood - DALI-2 - Integral - 59 mm - Class II - Standard no c
		Equipment	: 1 x LED / 6.8W 8.4 W / 820 lm
11	11 x	Order No.	: LSEVO-AAH6HS
		Luminaire name	: Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
		Equipment	: 1 x LED / 17W 19.2 W / 2240 lm
12	31 x	Order No.	: LBXS-000593
		Luminaire name	: Laser Blade XS - Ceiling Mounted - Ceiling - Fix - CRI90 - 3000 K - Reflector - WF - Wide Flood - External - Full Remote - 10 cel
		Equipment	: 1 x LED / 14W 14 W / 1800 lm

Rooms

Open Showroom	105 x Luminaires
Floor area	577.9 m ²
Wall area (without windows)	566.3 m ²
Window area	0.0 m ²
Volume	2889.4 m ³
Total luminous flux	377700 lm
Total power	2909.6 W
Total power per area (578 m ²)	5.03 W/m ²
$\bar{E}_m$	530 lx
E_{min}	73 lx
$E_{min}/\bar{E}_m (U_o)$	0.14
RUG	---



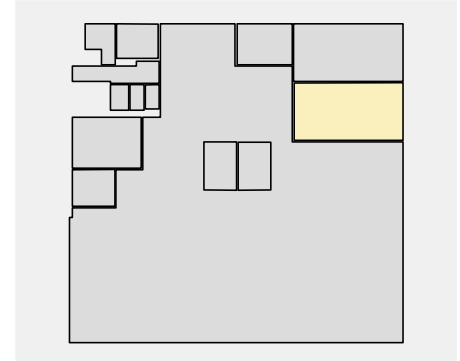
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



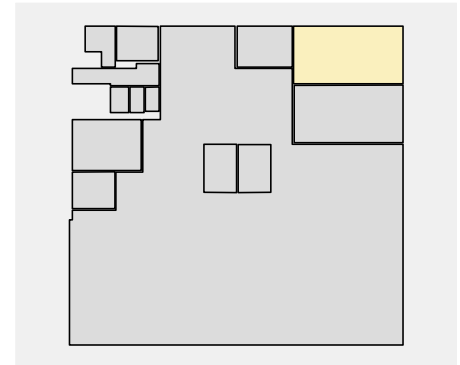
Summary, Ground Floor

.1 Floor overview

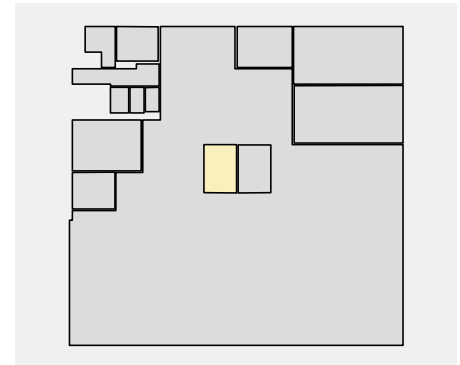
Handover 1	8 x Luminaires
Floor area	47.1 m ²
Wall area (without windows)	69.2 m ²
Window area	0.0 m ²
Volume	113.1 m ³
Total luminous flux	30160 lm
Total power	226.4 W
Total power per area (47 m ²)	4.81 W/m ²
$\bar{E}_m$	632 lx
E_{min}	115 lx
$E_{min}/\bar{E}_m (U_o)$	0.18
RUG	<=18.9



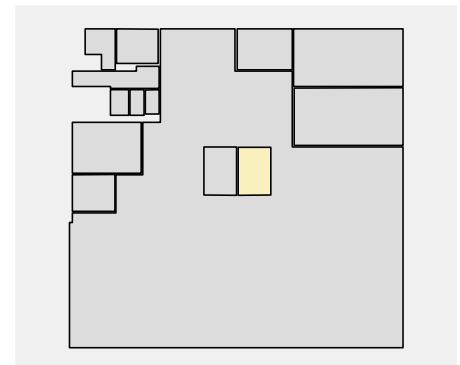
Handover 2	8 x Luminaires
Floor area	47.5 m ²
Wall area (without windows)	69.6 m ²
Window area	0.0 m ²
Volume	114.1 m ³
Total luminous flux	30160 lm
Total power	226.4 W
Total power per area (48 m ²)	4.76 W/m ²
$\bar{E}_m$	625 lx
E_{min}	106 lx
$E_{min}/\bar{E}_m (U_o)$	0.17
RUG	<=18.9



Office 1	4 x Luminaires
Floor area	11.8 m ²
Wall area (without windows)	33.7 m ²
Window area	0.0 m ²
Volume	28.4 m ³
Total luminous flux	9800 lm
Total power	67.2 W
Total power per area (12 m ²)	5.68 W/m ²
$\bar{E}_m$	715 lx
E_{min}	430 lx
$E_{min}/\bar{E}_m (U_o)$	0.60
RUG	<=18.0



Office 2	4 x Luminaires
Floor area	11.7 m ²
Wall area (without windows)	33.5 m ²
Window area	0.0 m ²
Volume	28.2 m ³
Total luminous flux	9800 lm
Total power	67.2 W
Total power per area (12 m ²)	5.73 W/m ²
$\bar{E}_m$	710 lx
E_{min}	442 lx
$E_{min}/\bar{E}_m (U_o)$	0.62
RUG	<=18.0



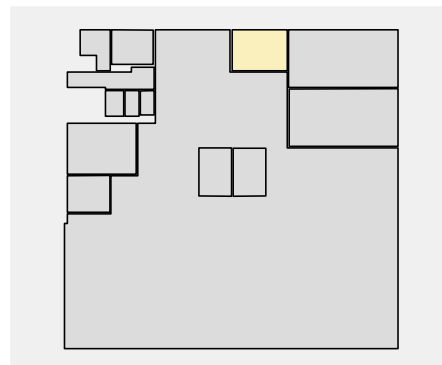
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



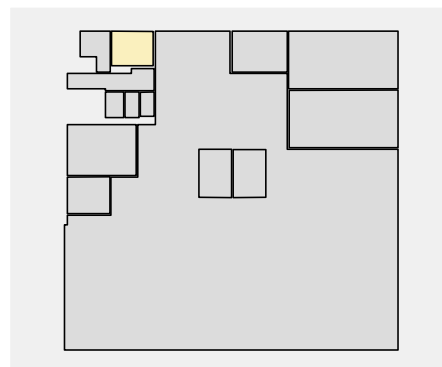
Summary, Ground Floor

.1 Floor overview

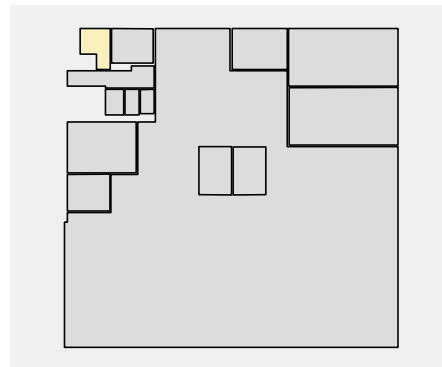
Office 3	6 x Luminaires
Floor area	17.0 m ²
Wall area (without windows)	40.0 m ²
Window area	0.0 m ²
Volume	40.8 m ³
Total luminous flux	14700 lm
Total power	100.8 W
Total power per area (17 m ²)	5.94 W/m ²
$\bar{E}_m$	607 lx
E_{min}	406 lx
$E_{min}/\bar{E}_m (U_o)$	0.67
RUG	<=18.2



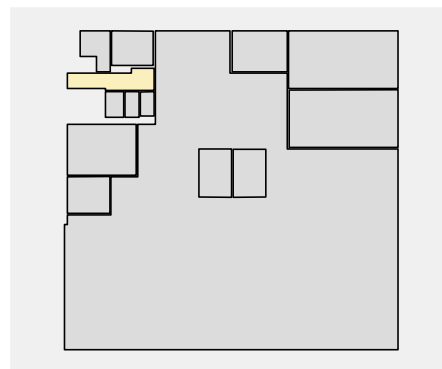
Office 4	4 x Luminaires
Floor area	10.8 m ²
Wall area (without windows)	31.7 m ²
Window area	0.0 m ²
Volume	26.0 m ³
Total luminous flux	9800 lm
Total power	67.2 W
Total power per area (11 m ²)	6.21 W/m ²
$\bar{E}_m$	588 lx
E_{min}	362 lx
$E_{min}/\bar{E}_m (U_o)$	0.62
RUG	<=18.0



Kitchenette	3 x Luminaires
Floor area	7.4 m ²
Wall area (without windows)	29.5 m ²
Window area	0.0 m ²
Volume	17.7 m ³
Total luminous flux	6720 lm
Total power	57.6 W
Total power per area (7 m ²)	7.81 W/m ²
$\bar{E}_m$	675 lx
E_{min}	268 lx
$E_{min}/\bar{E}_m (U_o)$	0.40
RUG	<=18.4



Circulation	4 x Luminaires
Floor area	11.5 m ²
Wall area (without windows)	45.3 m ²
Window area	0.0 m ²
Volume	27.6 m ³
Total luminous flux	8960 lm
Total power	76.8 W
Total power per area (12 m ²)	6.68 W/m ²
$\bar{E}_m$	453 lx
E_{min}	197 lx
$E_{min}/\bar{E}_m (U_o)$	0.44
RUG	<=18.1



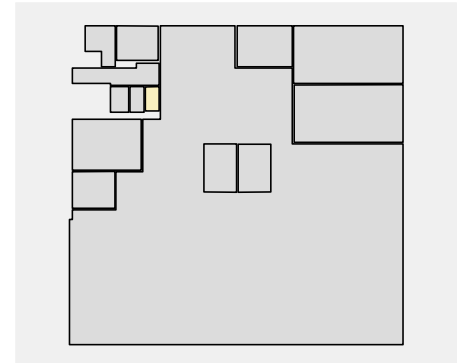
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



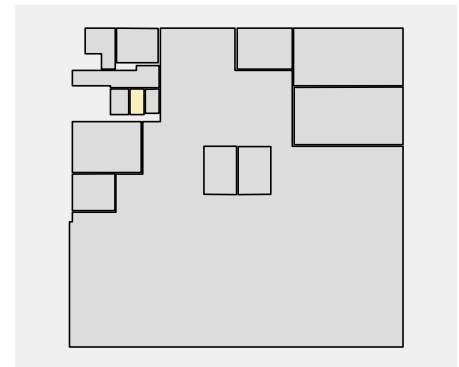
Summary, Ground Floor

.1 Floor overview

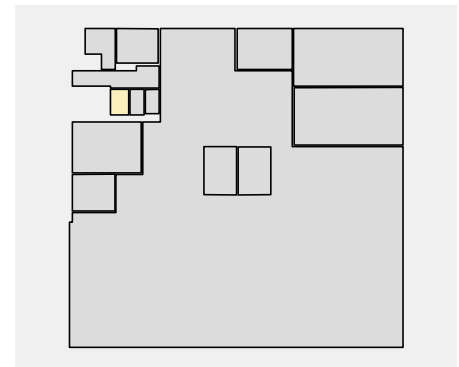
WC 1	1 x Luminaires
Floor area	2.5 m ²
Wall area (without windows)	15.8 m ²
Window area	0.0 m ²
Volume	6.1 m ³
Total luminous flux	2240 lm
Total power	19.2 W
Total power per area (3 m ²)	7.61 W/m ²
$\bar{E}_m$	409 lx
E_{min}	324 lx
$E_{min}/\bar{E}_m (U_o)$	0.79
R_{UG}	10.0



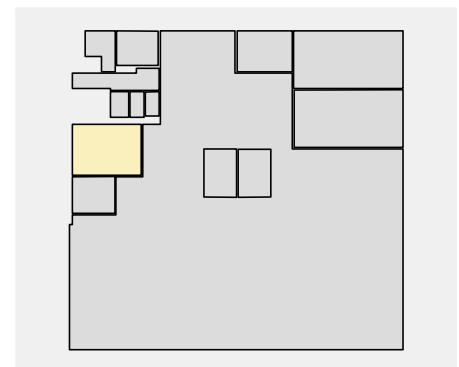
WC 2	1 x Luminaires
Floor area	2.6 m ²
Wall area (without windows)	16.3 m ²
Window area	0.0 m ²
Volume	6.3 m ³
Total luminous flux	2240 lm
Total power	19.2 W
Total power per area (3 m ²)	7.27 W/m ²
$\bar{E}_m$	402 lx
E_{min}	310 lx
$E_{min}/\bar{E}_m (U_o)$	0.77
R_{UG}	10.0



Dis. WC	2 x Luminaires
Floor area	3.5 m ²
Wall area (without windows)	18.2 m ²
Window area	0.0 m ²
Volume	8.4 m ³
Total luminous flux	4480 lm
Total power	38.4 W
Total power per area (4 m ²)	10.95 W/m ²
$\bar{E}_m$	618 lx
E_{min}	470 lx
$E_{min}/\bar{E}_m (U_o)$	0.76
R_{UG}	10.0



Office 5	6 x Luminaires
Floor area	26.5 m ²
Wall area (without windows)	50.0 m ²
Window area	0.0 m ²
Volume	63.7 m ³
Total luminous flux	14700 lm
Total power	100.8 W
Total power per area (27 m ²)	3.80 W/m ²
$\bar{E}_m$	537 lx
E_{min}	295 lx
$E_{min}/\bar{E}_m (U_o)$	0.55
R_{UG}	<=18.4



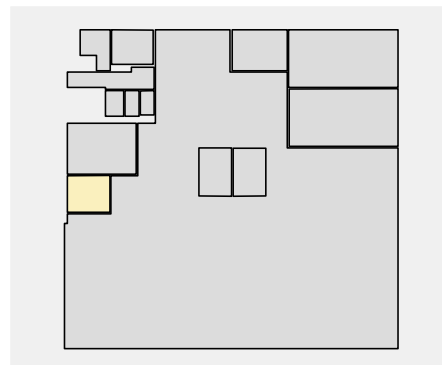
Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



Summary, Ground Floor

.1 Floor overview

Office 6	4 x Luminaires
Floor area	11.7 m ²
Wall area (without windows)	33.0 m ²
Window area	0.0 m ²
Volume	28.1 m ³
Total luminous flux	9800 lm
Total power	67.2 W
Total power per area (12 m ²)	5.73 W/m ²
$\bar{E}_m$	609 lx
E_{min}	401 lx
$E_{min}/\bar{E}_m (U_o)$	0.66
R_{UG}	≤ 18.0



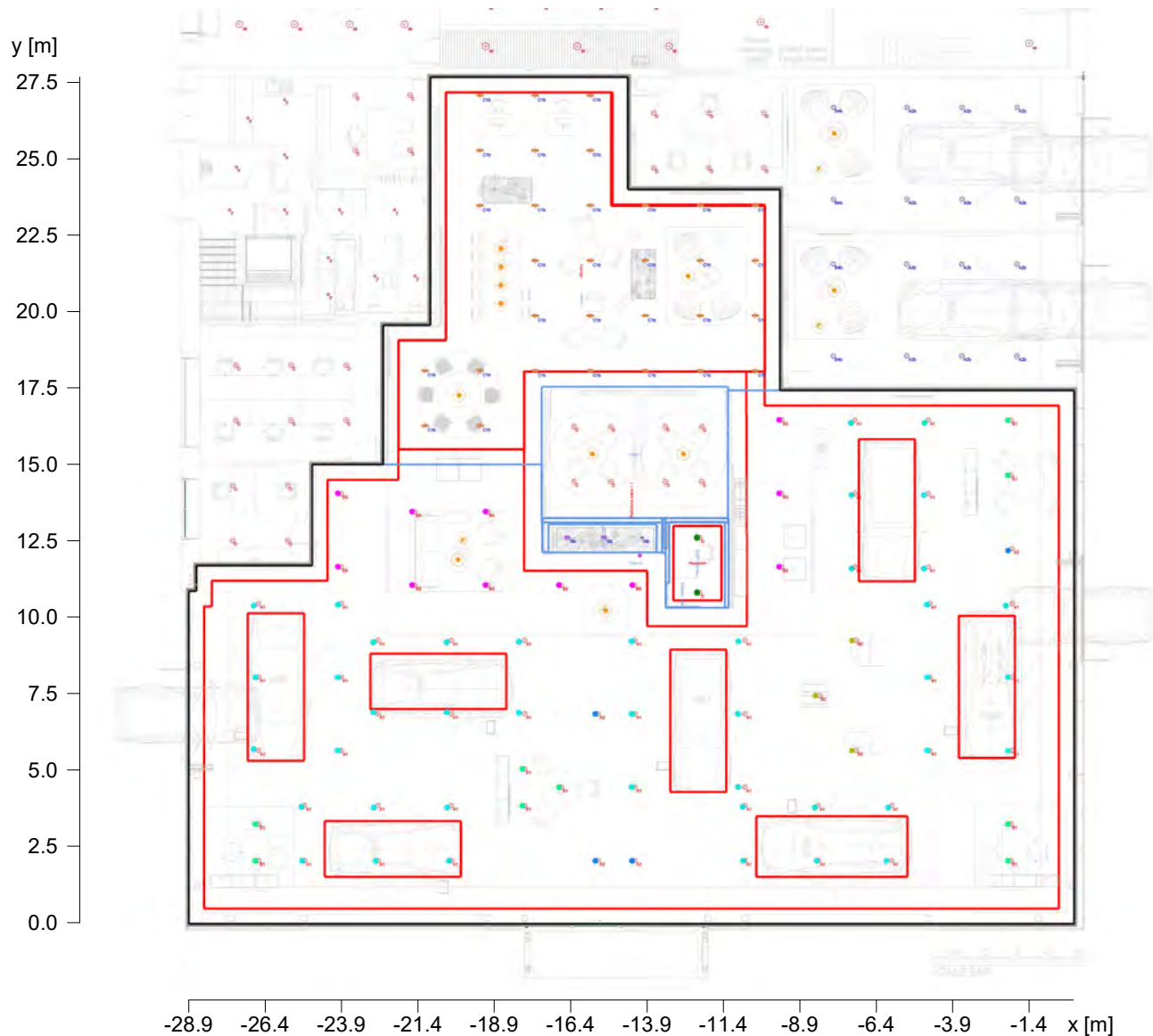
Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



1 Open Showroom

1.1 Description, Open Showroom

1.1.1 Floor plan



Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



1 Open Showroom

1.1 Description, Open Showroom

1.1.1 Floor plan

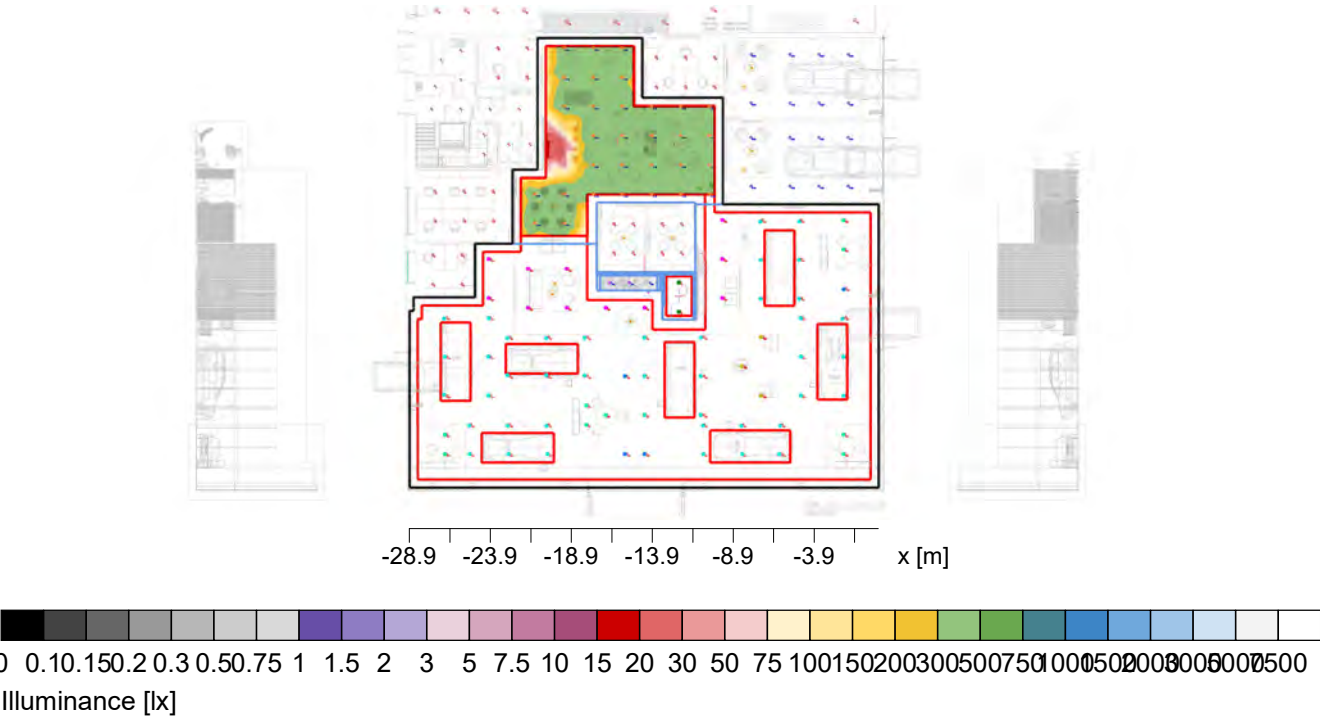
Wall	x	y	Length	Area[m²]	Reflectance
1	167.52 m	109.21 m	17.43 m	87.17	50.0 %
2	157.90 m	109.21 m	9.62 m	48.11	50.0 %
3	157.90 m	115.78 m	6.57 m	32.84	50.0 %
4	152.92 m	115.78 m	4.97 m	24.87	50.0 %
5	152.92 m	119.45 m	3.67 m	18.36	50.0 %
6	146.47 m	119.45 m	6.46 m	32.28	50.0 %
7	146.47 m	111.34 m	8.11 m	40.54	50.0 %
8	144.92 m	111.34 m	1.55 m	7.73	50.0 %
9	144.92 m	106.78 m	4.55 m	22.77	50.0 %
10	142.61 m	106.78 m	2.32 m	11.59	50.0 %
11	142.61 m	103.48 m	3.30 m	16.51	50.0 %
12	138.82 m	103.48 m	3.79 m	18.93	50.0 %
13	138.82 m	102.65 m	0.84 m	4.18	50.0 %
14	138.57 m	102.65 m	0.25 m	1.25	50.0 %
15	138.57 m	91.77 m	10.88 m	54.38	50.0 %
16	167.52 m	91.77 m	28.95 m	144.75	50.0 %
Floor:				577.9	20.0 %
Ceiling:				577.9	70.0 %
Room height [m]:		5.00 m			
Height of ref. plane [m]:		0.00 m			
Volume				2889.4 m³	



1 Open Showroom

1.2 Summary, Open Showroom

1.2.8 Result overview, Lounge



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Maintenance factor	0.80

Total luminous flux	377700 lm
Total power	2909.6 W
Total power per area (577.88 m²)	5.03 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	358 lx
Minimum illuminance	E_{min}	18 lx
Maximum illuminance	E_{max}	472 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:19.6 (0.05)
Diversity U_d	E_{min}/E_{max}	1:25.9 (0.04)

Type No. Make

- 1

42 x



iGuzzini

Order No. : RN66

Luminaire name : Tecnica EVO ø117 downlights

Equipment : 1 x LED 37.4 W / 4920 lm
- 2

9 x



iGuzzini

Order No. : RN63

Luminaire name : Tecnica EVO ø117 downlights

Equipment : 1 x LED 37.4 W / 4660 lm

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



1 Open Showroom

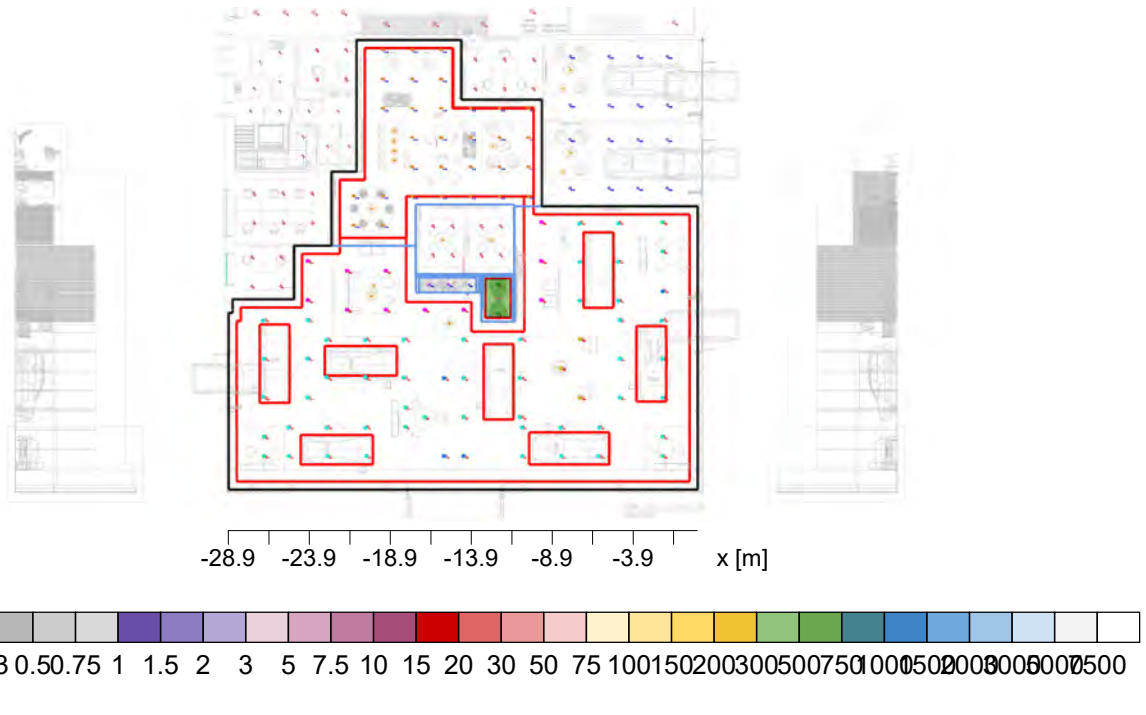
1.2 Summary, Open Showroom

1.2.8 Result overview, Lounge

3	3 x		Order No. : RN30 Luminaire name : Tecnica EVO ø117 downlights Equipment : 1 x LED 28.3 W / 3620 lm
4	11 x		Order No. : RN31 Luminaire name : Tecnica EVO ø117 downlights Equipment : 1 x LED 28.3 W / 3620 lm
5	2 x		Order No. : QV86-D8 Luminaire name : Easy Space - GL - ø153mm Equipment : 1 x LED 16.8 W / 2450 lm
7	4 x		Order No. : RN36 Luminaire name : Tecnica EVO ø117 downlights Equipment : 1 x LED 28.3 W / 3820 lm
10	3 x		Order No. : LSEVO-000021 Luminaire name : Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - F - Flood - DALI-2 - Integral - 59 mm - Class II - Standard no c Equipment : 1 x LED / 6.8W 8.4 W / 820 lm
12	31 x		Order No. : LBXS-000593 Luminaire name : Laser Blade XS - Ceiling Mounted - Ceiling - Fix - CRI90 - 3000 K - Reflector - WF - Wide Flood - External - Full Remote - 10 cel Equipment : 1 x LED / 14W 14 W / 1800 lm

1.2 Summary, Open Showroom

1.2.9 Result overview, Reception



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Maintenance factor	0.80
Total luminous flux	377700 lm
Total power	2909.6 W
Total power per area (577.88 m ²)	5.03 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	537 lx
Minimum illuminance	E_{min}	314 lx
Maximum illuminance	E_{max}	780 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.71 (0.58)
Diversity U_d	E_{min}/E_{max}	1:2.49 (0.4)

Type No. Make

- iGuzzini**
- 1 42 x  Order No. : RN66
 Luminaire name : Tecnica EVO ø117 downlights
 Equipment : 1 x LED 37.4 W / 4920 lm
- 2 9 x  Order No. : RN63
 Luminaire name : Tecnica EVO ø117 downlights
 Equipment : 1 x LED 37.4 W / 4660 lm

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



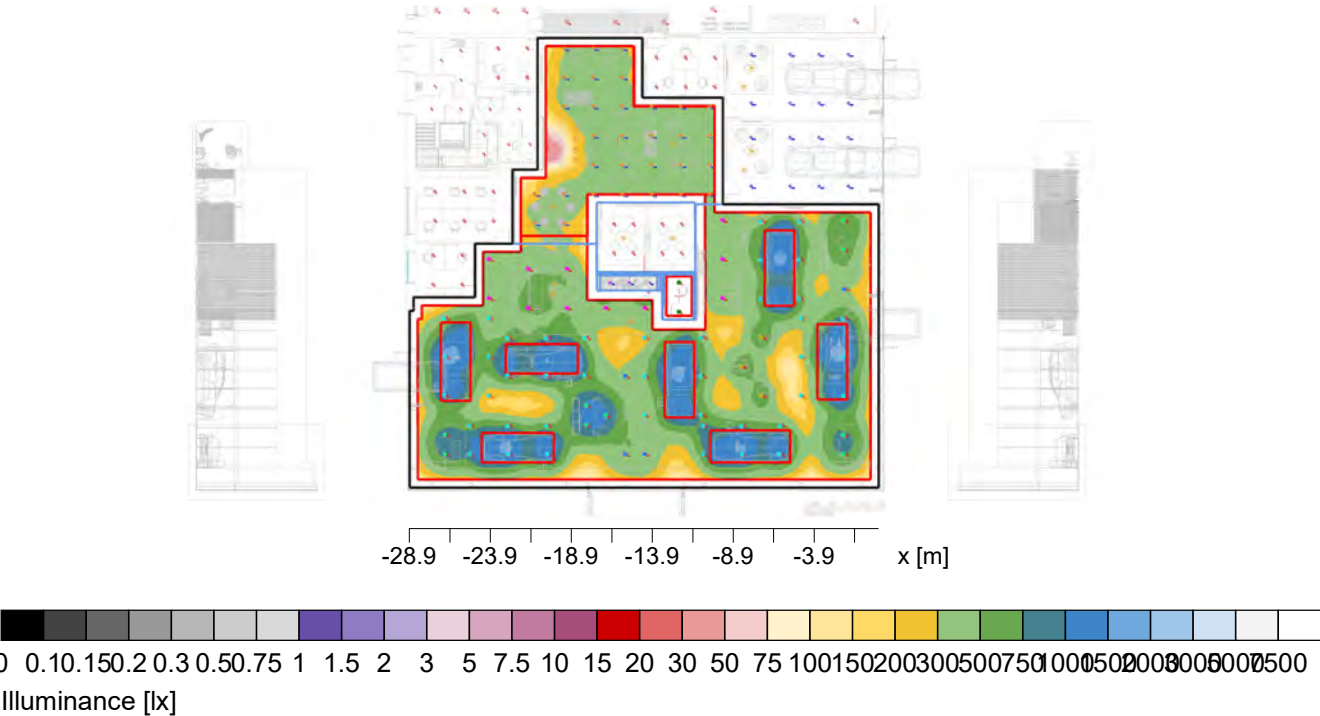
1.2 Summary, Open Showroom

1.2.9 Result overview, Reception

3	3 x		Order No. : RN30 Luminaire name : Tecnica EVO ø117 downlights Equipment : 1 x LED 28.3 W / 3620 lm
4	11 x		Order No. : RN31 Luminaire name : Tecnica EVO ø117 downlights Equipment : 1 x LED 28.3 W / 3620 lm
5	2 x		Order No. : QV86-D8 Luminaire name : Easy Space - GL - ø153mm Equipment : 1 x LED 16.8 W / 2450 lm
7	4 x		Order No. : RN36 Luminaire name : Tecnica EVO ø117 downlights Equipment : 1 x LED 28.3 W / 3820 lm
10	3 x		Order No. : LSEVO-000021 Luminaire name : Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - F - Flood - DALI-2 - Integral - 59 mm - Class II - Standard no c Equipment : 1 x LED / 6.8W 8.4 W / 820 lm
12	31 x		Order No. : LBXS-000593 Luminaire name : Laser Blade XS - Ceiling Mounted - Ceiling - Fix - CRI90 - 3000 K - Reflector - WF - Wide Flood - External - Full Remote - 10 cel Equipment : 1 x LED / 14W 14 W / 1800 lm

1.2 Summary, Open Showroom

1.2.10 Result overview, Evaluation area 1



General

Calculation algorithm used
Maintenance factor

Average indirect fraction
0.80

Total lamp luminous flux
Luminaire luminous flux
Total power
Total power per area (577.88 m²)

377700.00 lm
326258.25 lm
2909.6 W
5.03 W/m² (0.95 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	530 lx	105 lx
E_{min}	73 lx	34 lx
$E_{min}/\bar{E}_m (U_o)$	0.14	0.33
$E_{min}/E_{max} (U_d)$	0.06	
E_z/E_h		0.20
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Hints:
- Room dimensions deviate too much from a rectangular room.

Type No.\Make

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



1.2 Summary, Open Showroom

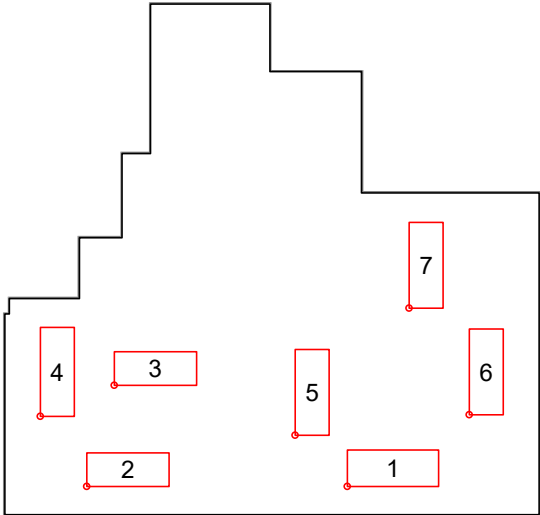
1.2.10 Result overview, Evaluation area 1

iGuzzini		
1	42 x	Order No. : RN66
		Luminaire name : Tecnica EVO ø117 downlights
		Equipment : 1 x LED 37.4 W / 4920 lm
2	9 x	Order No. : RN63
		Luminaire name : Tecnica EVO ø117 downlights
		Equipment : 1 x LED 37.4 W / 4660 lm
3	3 x	Order No. : RN30
		Luminaire name : Tecnica EVO ø117 downlights
		Equipment : 1 x LED 28.3 W / 3620 lm
4	11 x	Order No. : RN31
		Luminaire name : Tecnica EVO ø117 downlights
		Equipment : 1 x LED 28.3 W / 3620 lm
5	2 x	Order No. : QV86-D8
		Luminaire name : Easy Space - GL - ø153mm
		Equipment : 1 x LED 16.8 W / 2450 lm
7	4 x	Order No. : RN36
		Luminaire name : Tecnica EVO ø117 downlights
		Equipment : 1 x LED 28.3 W / 3820 lm
10	3 x	Order No. : LSEVO-000021
		Luminaire name : Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector -
		F - Flood - DALI-2 - Integral - 59 mm - Class II - Standard no c
		Equipment : 1 x LED / 6.8W 8.4 W / 820 lm
12	31 x	Order No. : LBXS-000593
		Luminaire name : Laser Blade XS - Ceiling Mounted - Ceiling - Fix - CRI90 - 3000
		K - Reflector - WF - Wide Flood - External - Full Remote - 10 cel
		Equipment : 1 x LED / 14W 14 W / 1800 lm



1.2 Summary, Open Showroom

1.2.11 Result overview, Group 1



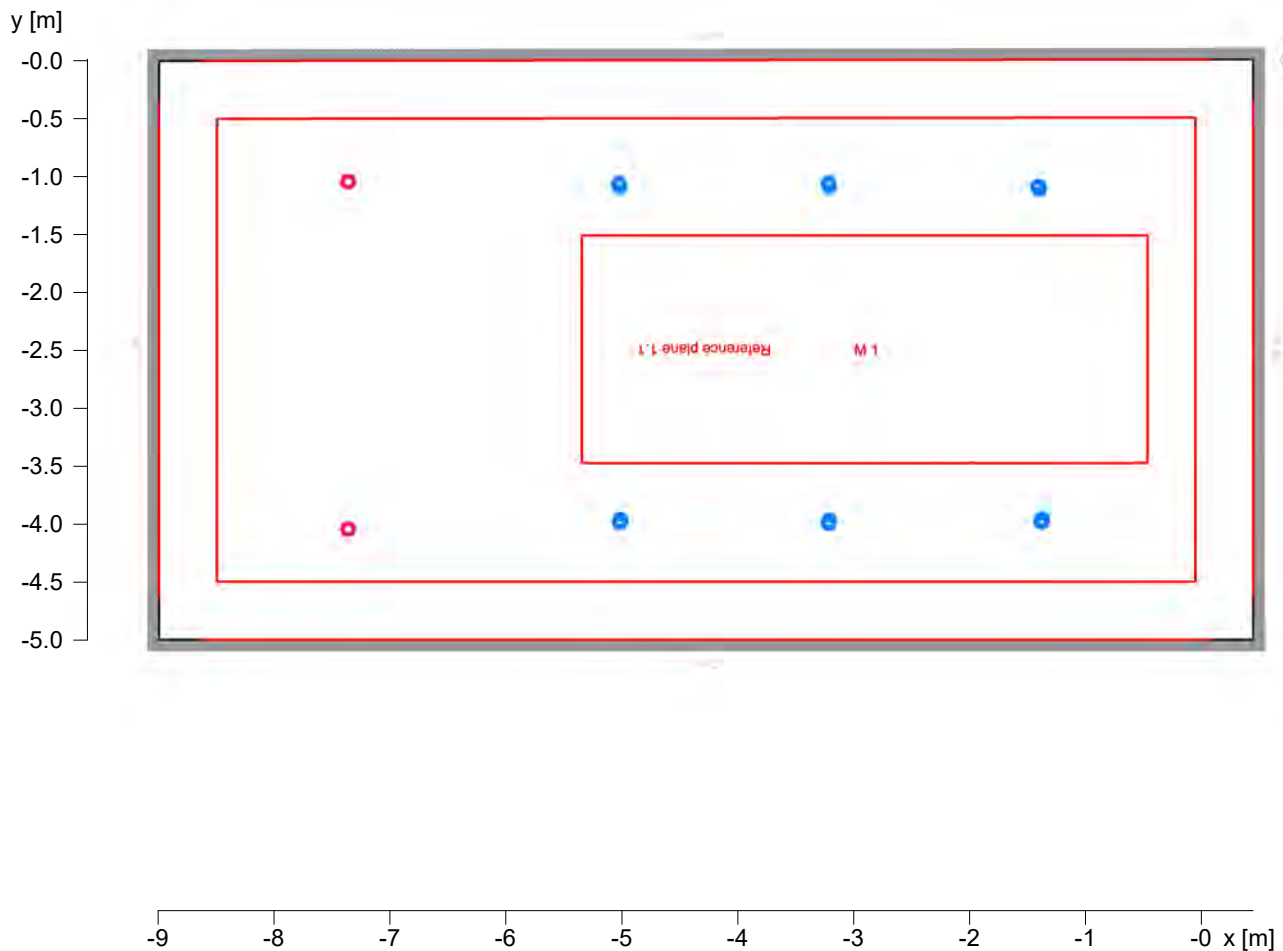
Horizontal illuminance

No.	Measuring surface	Grid	$\bar{E}_m$	E_{min}	E_{max}	U_o	U_d
1.1	M 1.1	18 x 7	1210 lx	664 lx	1750 lx	0.55	0.38
1.2	M 1.2	15 x 6	1250 lx	636 lx	1790 lx	0.51	0.36
1.3	M 1.3	15 x 6	1200 lx	661 lx	1600 lx	0.55	0.41
1.4	M 1.4	7 x 19	1240 lx	722 lx	1800 lx	0.58	0.40
1.5	M 1.5	7 x 18	1220 lx	754 lx	1640 lx	0.62	0.46
1.6	M 1.6	7 x 18	1240 lx	658 lx	1830 lx	0.53	0.36
1.7	M 1.7	7 x 18	1230 lx	657 lx	1810 lx	0.53	0.36
Summary			1230 lx	636 lx	1830 lx	0.52	0.35

2 Handover 1

2.1 Description, Handover 1

2.1.1 Floor plan

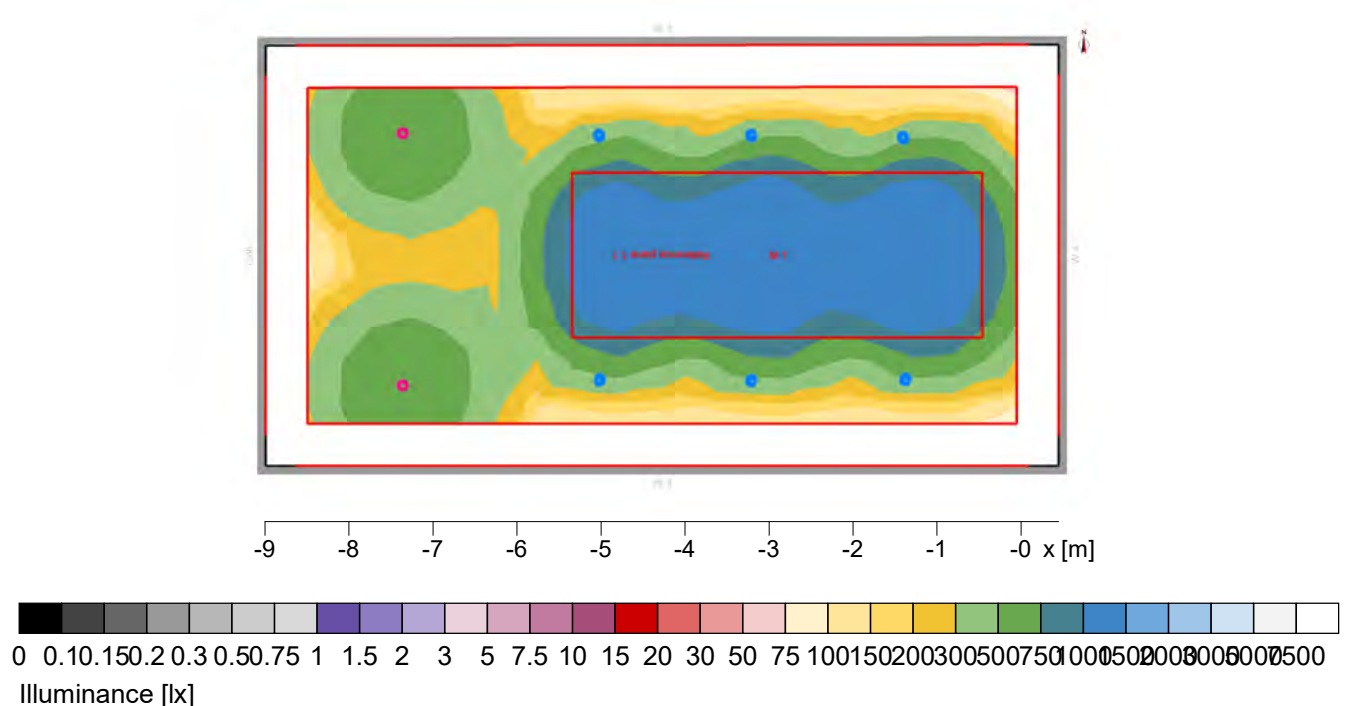


Wall	x	y	Length	Area[m²]	Reflectance
1	158.09 m	114.32 m	9.43 m	22.64	50.0 %
2	158.09 m	109.33 m	4.99 m	11.97	50.0 %
3	167.52 m	109.33 m	9.43 m	22.64	50.0 %
4	167.52 m	114.33 m	5.00 m	12.00	50.0 %
Floor:				47.1	20.0 %
Ceiling:				47.1	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		113.1 m³			



2.2 Summary, Handover 1

2.2.2 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	30160.00 lm
Luminaire luminous flux	28182.34 lm
Total power	226.4 W
Total power per area (47.10 m ²)	4.81 W/m ² (0.76 W/m ² /100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	632 lx	cylindrical
E_{min}	115 lx	170 lx
$E_{min}/\bar{E}_m (U_o)$	0.18	52 lx
$E_{min}/E_{max} (U_d)$	0.09	0.30
E_z/E_h		0.26
Position	0.00 m	0.45 m
RUG (4.3H 8.1H)	<=18.9	
Luminaire : (Technica EVO ø117 downlights, LED, RN33, 28.3 W)		

Major surfaces

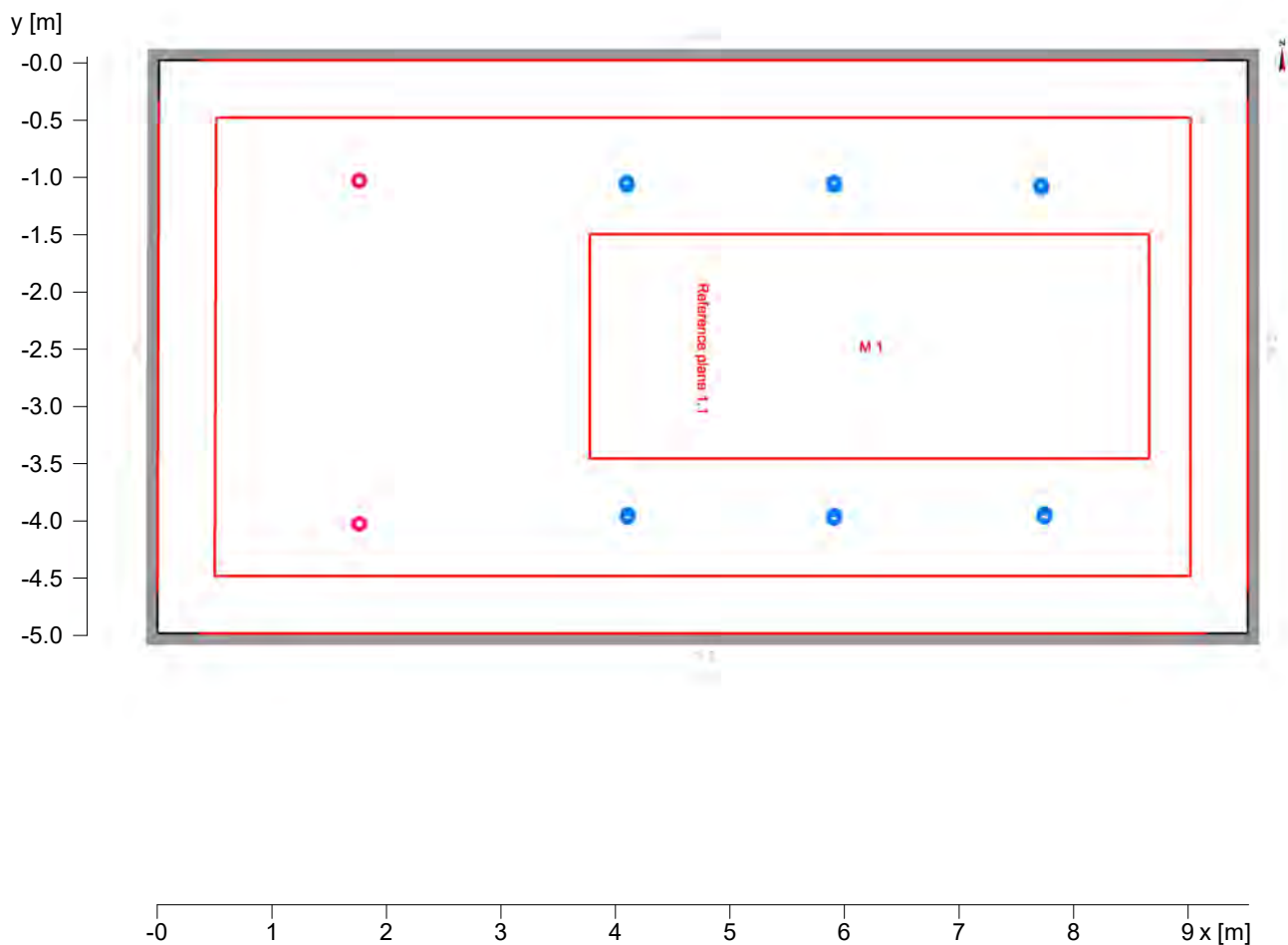
	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	77 lx	0.61
M 1.1 (Wall)	72 lx	0.55
M 1.2 (Wall)	57 lx	0.77
M 1.3 (Wall)	76 lx	0.52
M 1.4 (Wall)	79 lx	0.57

iGuzzini

3 Handover 2

3.1 Description, Handover 2

3.1.1 Floor plan

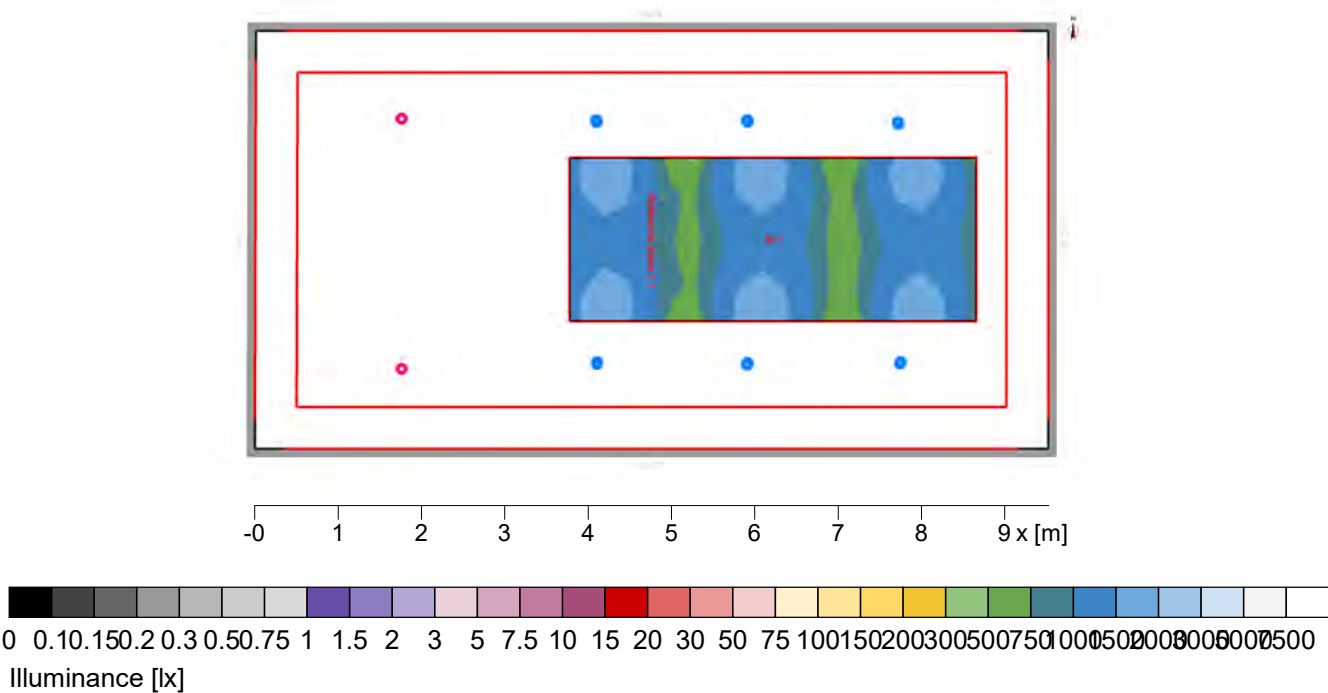


Wall	x	y	Length	Area[m²]	Reflectance
1	158.01 m	114.45 m	5.00 m	12.00	50.0 %
2	167.52 m	114.45 m	9.51 m	22.83	50.0 %
3	167.52 m	119.45 m	5.00 m	12.00	50.0 %
4	158.02 m	119.45 m	9.50 m	22.80	50.0 %
Floor:				47.5	20.0 %
Ceiling:				47.5	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		114.1 m³			

3 Handover 2

3.2 Summary, Handover 2

3.2.1 Result overview, Measuring area 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total luminous flux	30160 lm
Total power	226.4 W
Total power per area (47.53 m²)	4.76 W/m²

Illuminance

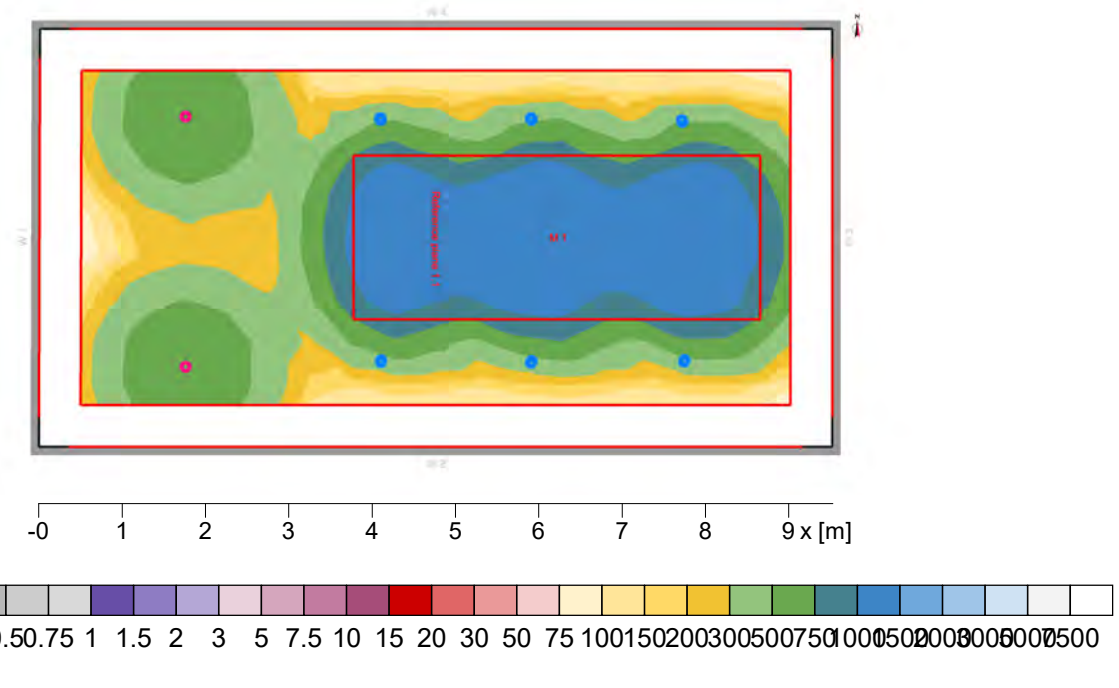
Average illuminance	$\bar{E}_m$	1200 lx
Minimum illuminance	E_{min}	576 lx
Maximum illuminance	E_{max}	1830 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.08 (0.48)
Diversity U_d	E_{min}/E_{max}	1:3.17 (0.32)

Type No. Make

6		2 x		iGuzzini	
				Order No.	: RN33
				Luminaire name	: Tecnica EVO ø117 downlights
				Equipment	: 1 x LED 28.3 W / 3620 lm
		7		6 x	
				Order No.	: RN36
				Luminaire name	: Tecnica EVO ø117 downlights
				Equipment	: 1 x LED 28.3 W / 3820 lm

3.2 Summary, Handover 2

3.2.2 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	30160.00 lm
Luminaire luminous flux	28182.34 lm
Total power	226.4 W
Total power per area (47.53 m ²)	4.76 W/m ² (0.76 W/m ² /100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	625 lx	cylindrical
E_{min}	106 lx	171 lx
$E_{min}/\bar{E}_m (U_o)$	0.17	46 lx
$E_{min}/E_{max} (U_d)$	0.08	0.27
E_z/E_h		0.26
Position	0.00 m	0.45 m
RUG (4.3H 8.1H)	<=18.9	
Luminaire : (Technica EVO ø117 downlights, LED, RN33, 28.3 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	76 lx	0.59
M 1.1 (Wall)	54 lx	0.80
M 1.2 (Wall)	76 lx	0.50
M 1.3 (Wall)	83 lx	0.56
M 1.4 (Wall)	72 lx	0.53

iGuzzini

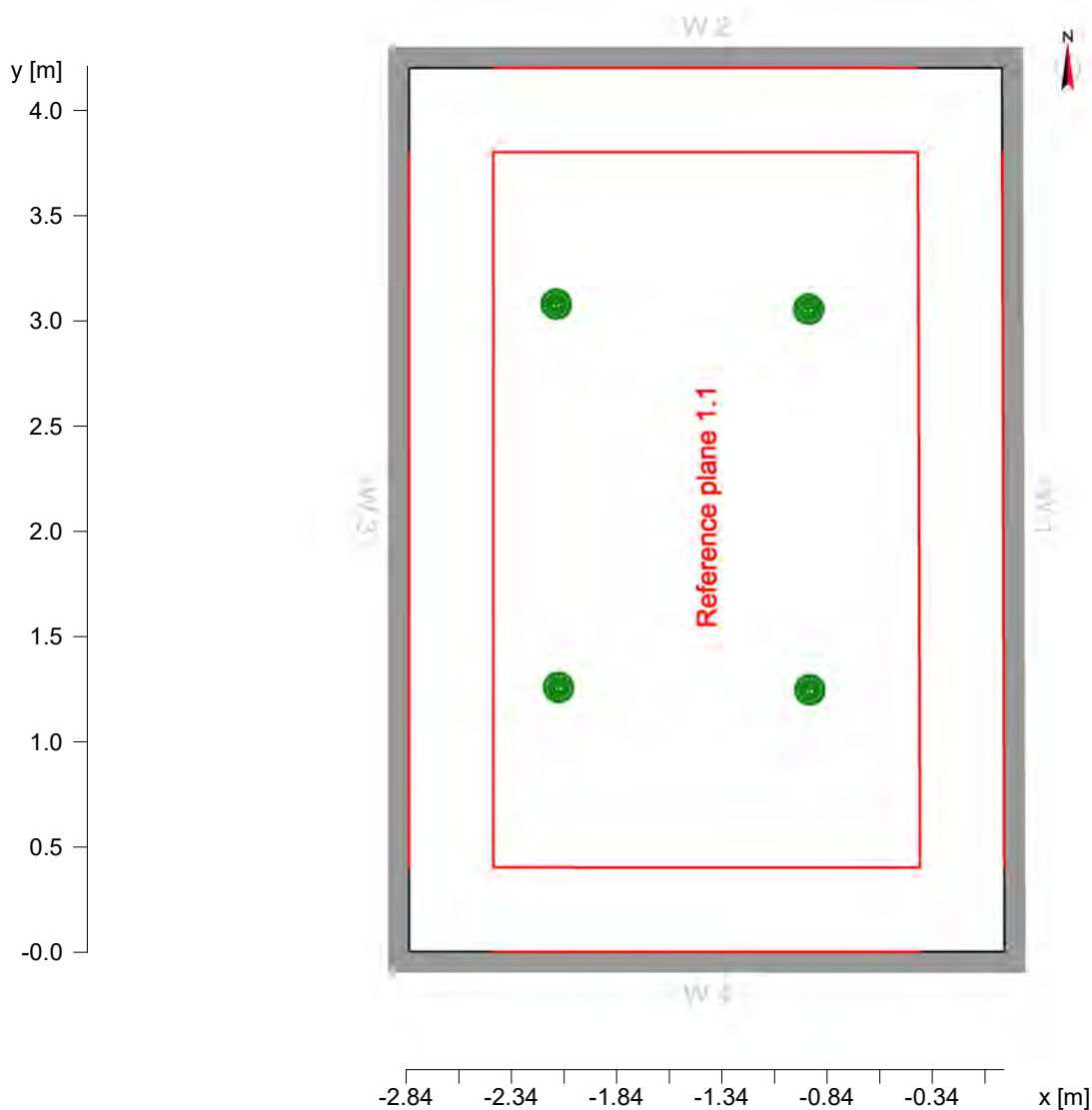
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



4 Office 1

4.1 Description, Office 1

4.1.1 Floor plan

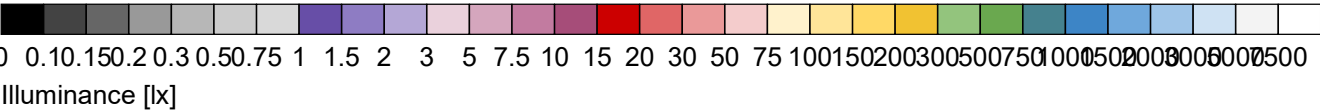
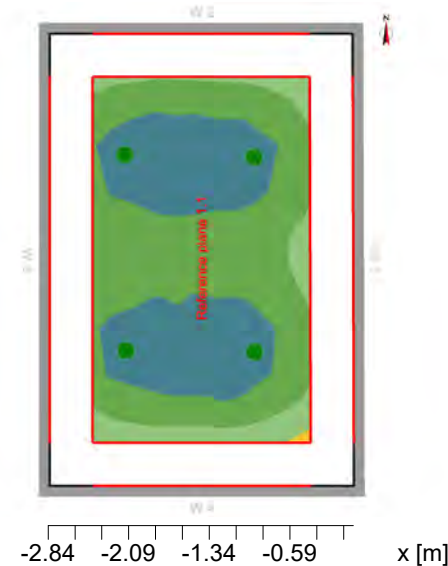


Wall	x	y	Length	Area[m²]	Reflectance
1	153.07 m	109.21 m	4.19 m	10.07	50.0 %
2	150.25 m	109.21 m	2.82 m	6.76	50.0 %
3	150.25 m	105.01 m	4.19 m	10.07	50.0 %
4	153.08 m	105.01 m	2.83 m	6.79	50.0 %
Floor:				11.8	20.0 %
Ceiling:				11.8	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume		28.4 m³			

4 Office 1

4.2 Summary, Office 1

4.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	9800.00 lm
Luminaire luminous flux	8916.35 lm
Total power	67.2 W
Total power per area (11.84 m²)	5.68 W/m² (0.79 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	715 lx	cylindrical
E_{min}	430 lx	173 lx
$E_{min}/\bar{E}_m (U_o)$	0.60	130 lx
$E_{min}/E_{max} (U_d)$	0.45	0.76
E_z/E_h		0.21
Position	0.75 m	1.20 m
RUG (2.4H 3.5H)	≤ 18.0	
Luminaire : (Easy Space - GL - $\varnothing 153$ mm, LED, QV86-D8, 16.8 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	73 lx	0.82
M 1.1 (Wall)	145 lx	0.48
M 1.2 (Wall)	133 lx	0.56
M 1.3 (Wall)	182 lx	0.39
M 1.4 (Wall)	117 lx	0.61

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



4 Office 1

4.2 Summary, Office 1

4.2.1 Result overview, Evaluation area 1

Type No. Make

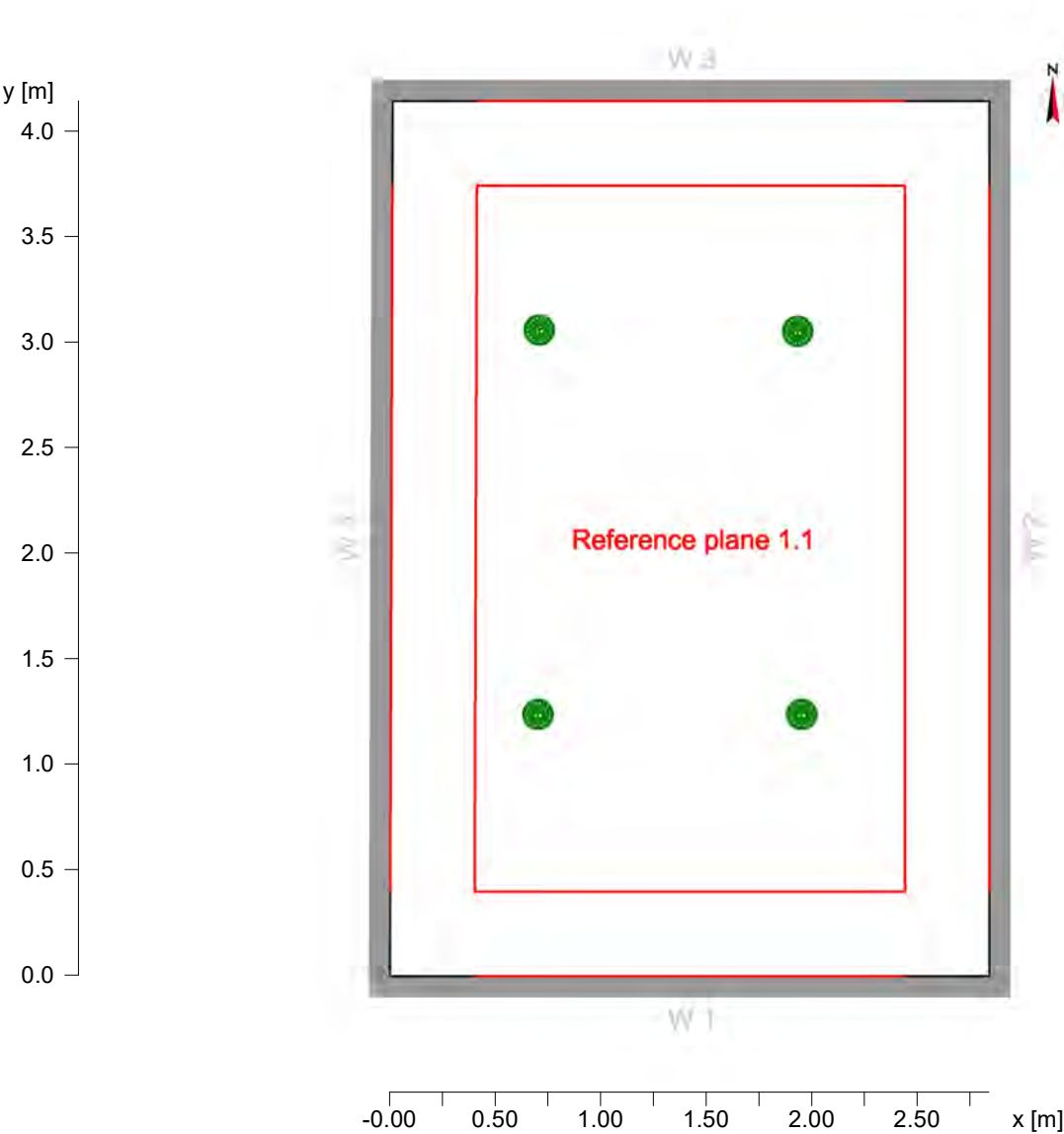
5	4 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm



5 Office 2

5.1 Description, Office 2

5.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	156.04 m	105.01 m	2.84 m	6.81	50.0 %
2	156.04 m	109.15 m	4.14 m	9.94	50.0 %
3	153.21 m	109.15 m	2.83 m	6.78	50.0 %
4	153.20 m	105.01 m	4.14 m	9.94	50.0 %
Floor:				11.7	20.0 %
Ceiling:				11.7	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		----			
Volume		28.2 m³			

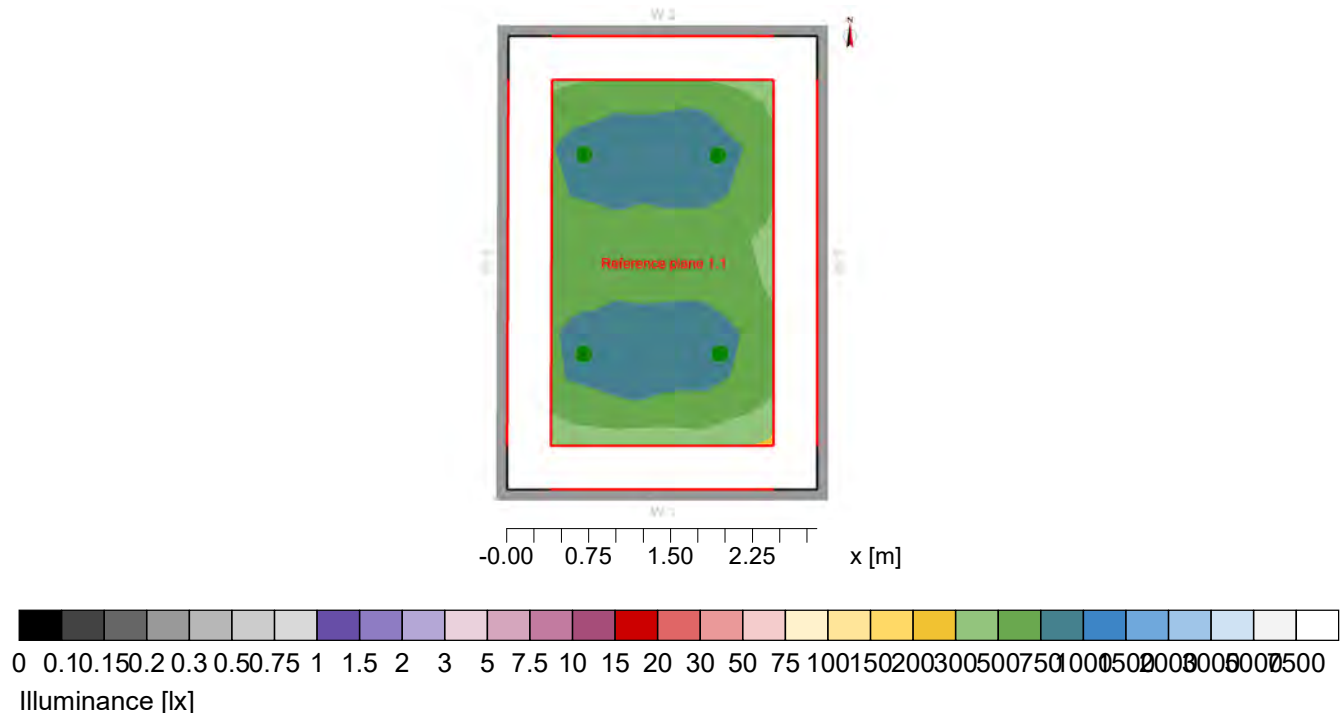
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



5 Office 2

5.2 Summary, Office 2

5.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (11.73 m²)

9800.00 lm
 8916.35 lm
 67.2 W
 5.73 W/m² (0.81 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$ 710 lx
 E_{min} 442 lx
 $E_{min}/\bar{E}_m (U_o)$ 0.62
 $E_{min}/E_{max} (U_d)$ 0.47
 E_z/E_h 0.21
 Position 0.75 m (rot: 0°/0.01°)
 RUG (2.4H 3.5H) <=18.0
 Luminaire :
 (Easy Space - GL - ø153mm, LED, QV86-D8, 16.8 W)

cylindrical
 172 lx
 125 lx
 0.73
 0.21
 0.75 m (rot: 0°/0.01°)

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	74 lx	0.82
M 1.1 (Wall)	118 lx	0.62
M 1.2 (Wall)	149 lx	0.47
M 1.3 (Wall)	140 lx	0.55
M 1.4 (Wall)	185 lx	0.39

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



5 Office 2

5.2 Summary, Office 2

5.2.1 Result overview, Evaluation area 1

Type No. Make

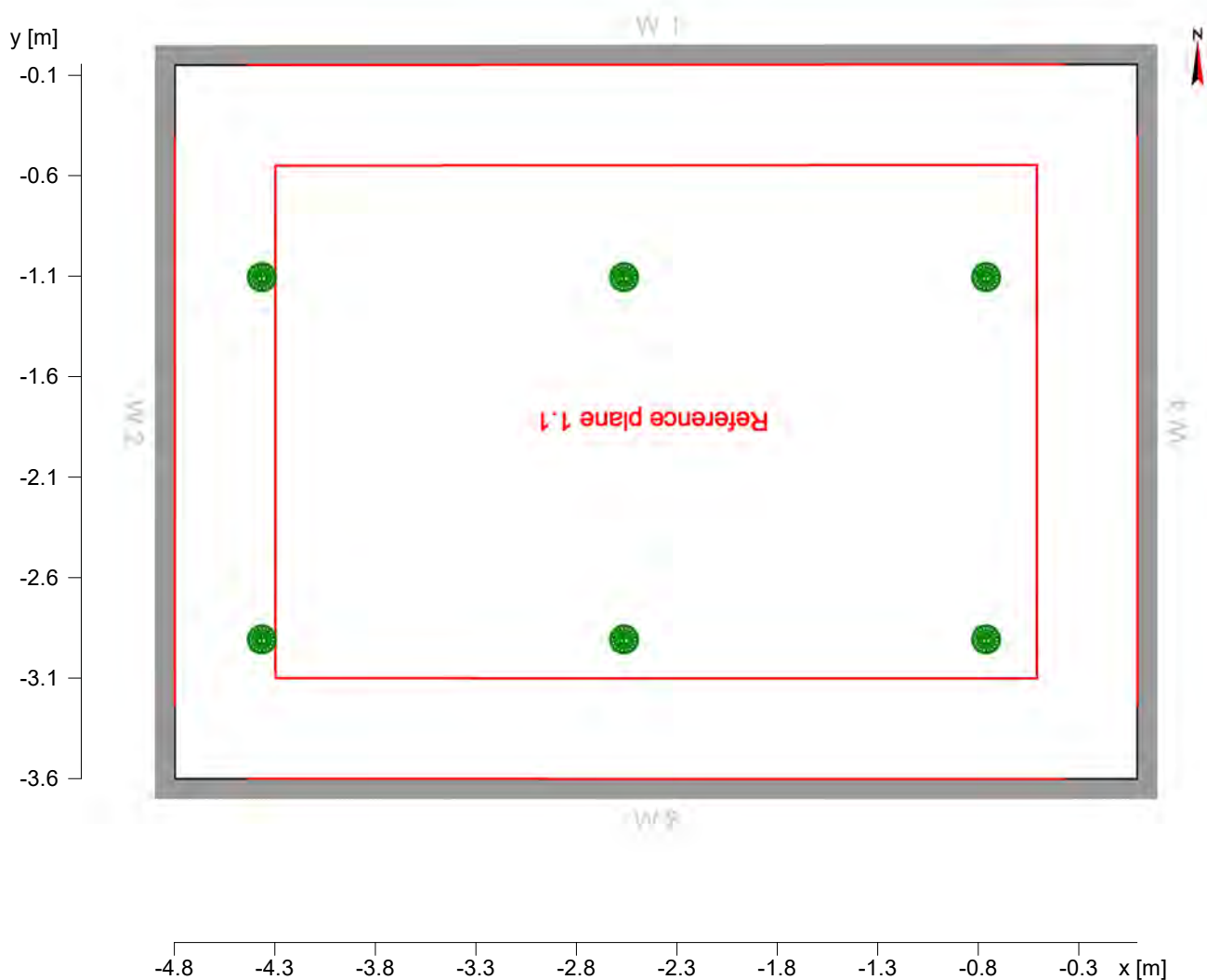
5	4 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm



6 Office 3

6.1 Description, Office 3

6.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	153.12 m	119.44 m	4.78 m	11.48	50.0 %
2	153.12 m	115.90 m	3.55 m	8.51	50.0 %
3	157.90 m	115.90 m	4.78 m	11.48	50.0 %
4	157.90 m	119.45 m	3.55 m	8.52	50.0 %
Floor:				17.0	20.0 %
Ceiling:				17.0	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		----			
Volume		40.8 m³			

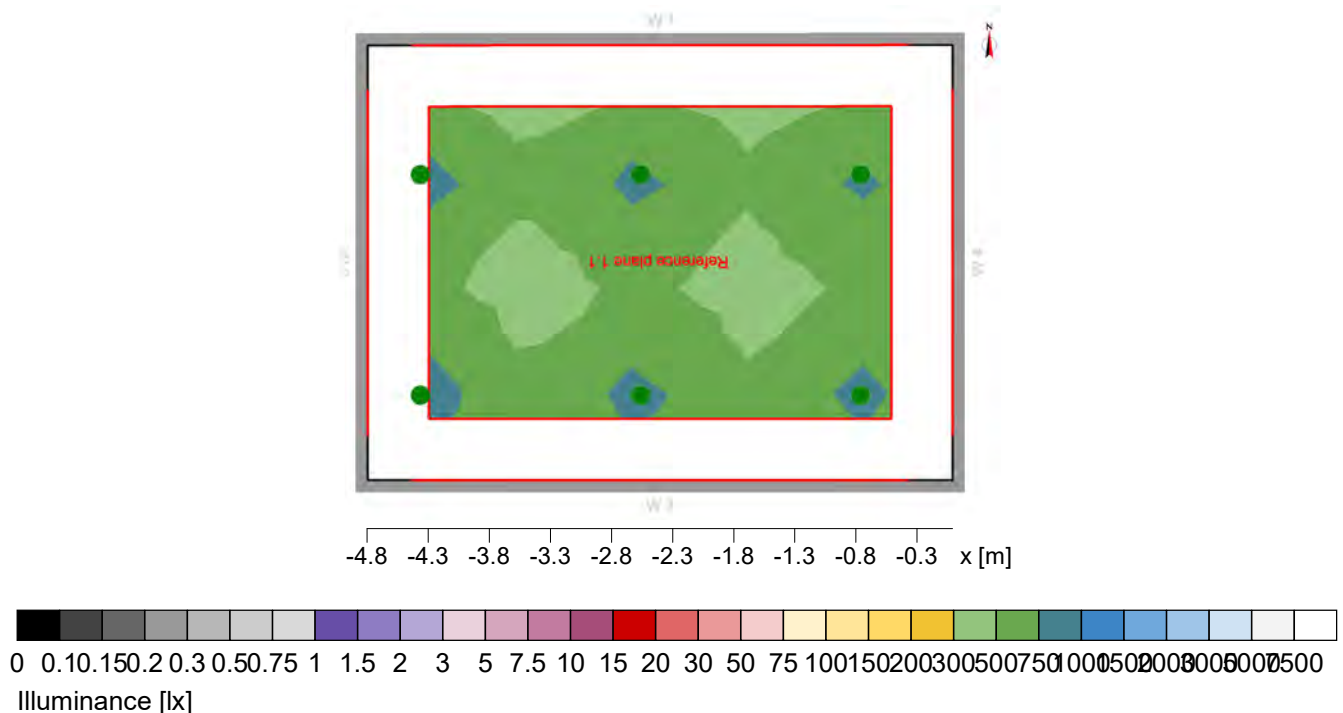
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



6 Office 3

6.2 Summary, Office 3

6.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (16.98 m²)

14700.00 lm
 13374.53 lm
 100.8 W
 5.94 W/m² (0.98 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$ 607 lx
 E_{min} 406 lx
 $E_{min}/\bar{E}_m (U_o)$ 0.67
 $E_{min}/E_{max} (U_d)$ 0.51
 E_z/E_h 0.25
 Position 0.75 m (rot: 0°/0.05°)
 RUG (3.0H 4.0H) <=18.2
 Luminaire :
 (Easy Space - GL - ø153mm, LED, QV86-D8, 16.8 W)

cylindrical
 167 lx
 103 lx
 0.62
 0.25
 0.75 m (rot: 0°/0.05°)

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	88 lx	0.82
M 1.1 (Wall)	142 lx	0.61
M 1.2 (Wall)	269 lx	0.38
M 1.3 (Wall)	200 lx	0.48
M 1.4 (Wall)	186 lx	0.49

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



6 Office 3

6.2 Summary, Office 3

6.2.1 Result overview, Evaluation area 1

Type No. Make

5	6 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm



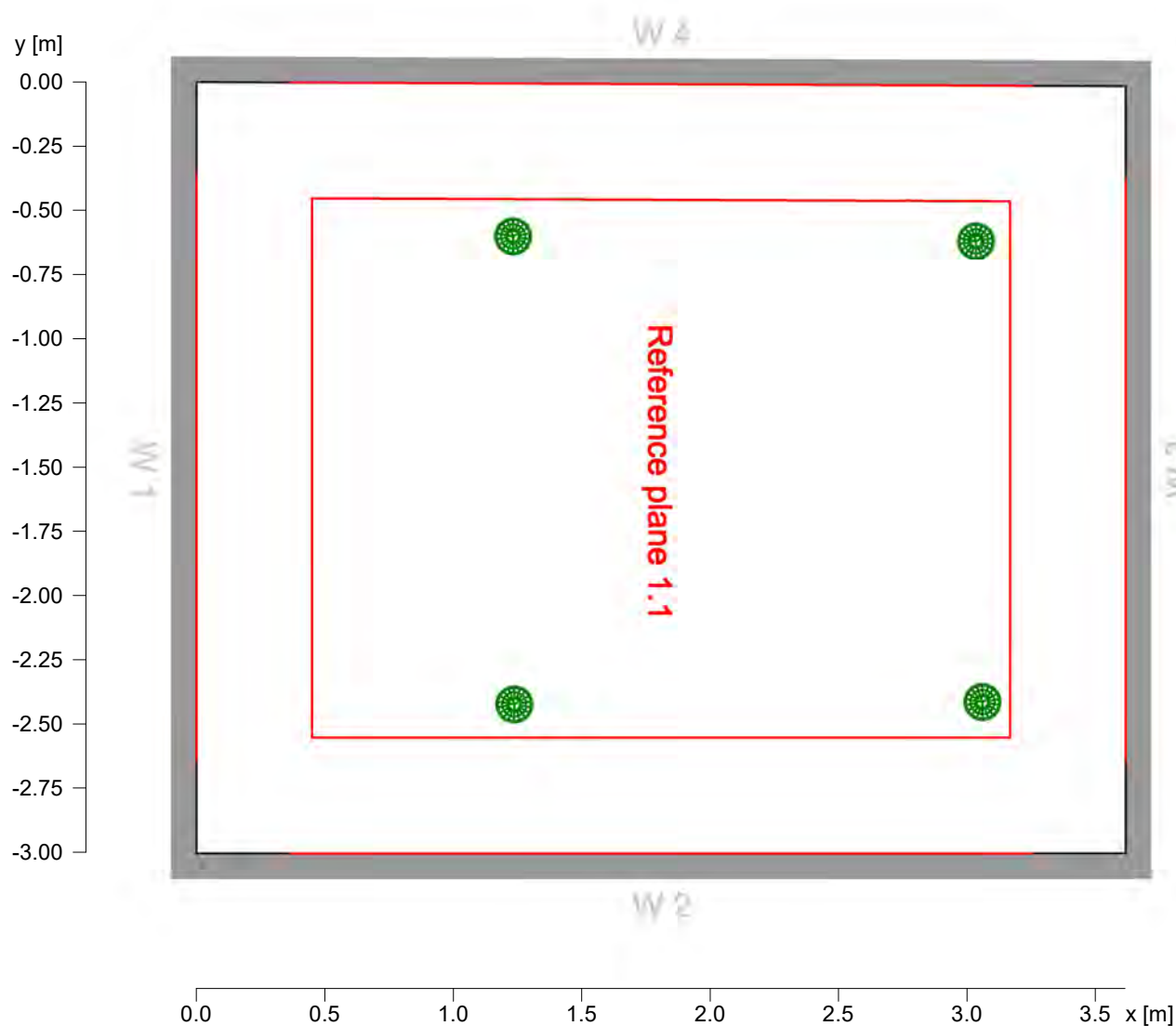
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



7 Office 4

7.1 Description, Office 4

7.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	142.65 m	116.45 m	3.00 m	7.20	50.0 %
2	146.27 m	116.45 m	3.62 m	8.68	50.0 %
3	146.27 m	119.43 m	2.98 m	7.16	50.0 %
4	142.65 m	119.45 m	3.62 m	8.68	50.0 %
Floor:				10.8	20.0 %
Ceiling:				10.8	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume				26.0 m³	

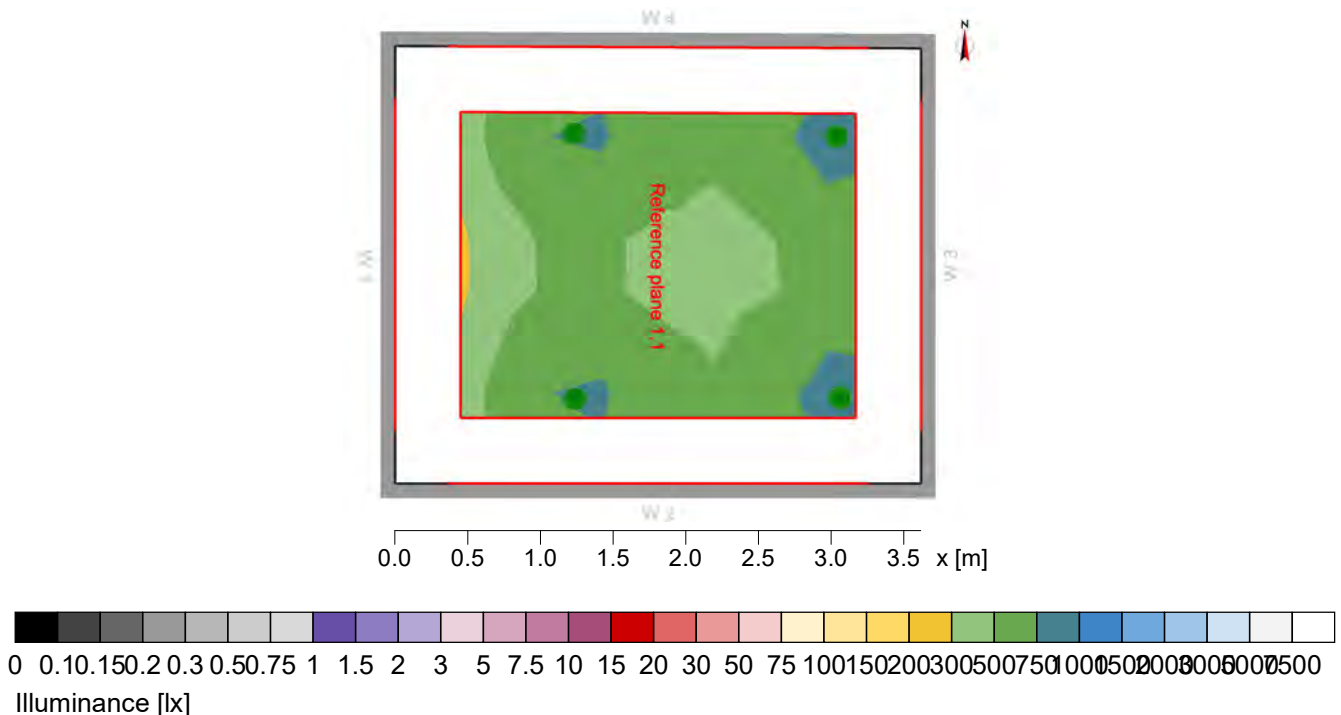
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



7 Office 4

7.2 Summary, Office 4

7.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	9800.00 lm
Luminaire luminous flux	8916.35 lm
Total power	67.2 W
Total power per area (10.82 m²)	6.21 W/m² (1.06 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	588 lx	cylindrical
E_{min}	362 lx	162 lx
$E_{min}/\bar{E}_m (U_o)$	0.62	117 lx
$E_{min}/E_{max} (U_d)$	0.45	0.72
E_z/E_h		0.25
Position	0.75 m	1.20 m
RUG (2.5H 3.0H)	<=18.0	
Luminaire : (Easy Space - GL - ø153mm, LED, QV86-D8, 16.8 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	85 lx	0.82
M 1.1 (Wall)	119 lx	0.70
M 1.2 (Wall)	216 lx	0.38
M 1.3 (Wall)	237 lx	0.40
M 1.4 (Wall)	214 lx	0.38

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



7 Office 4

7.2 Summary, Office 4

7.2.1 Result overview, Evaluation area 1

Type No. Make

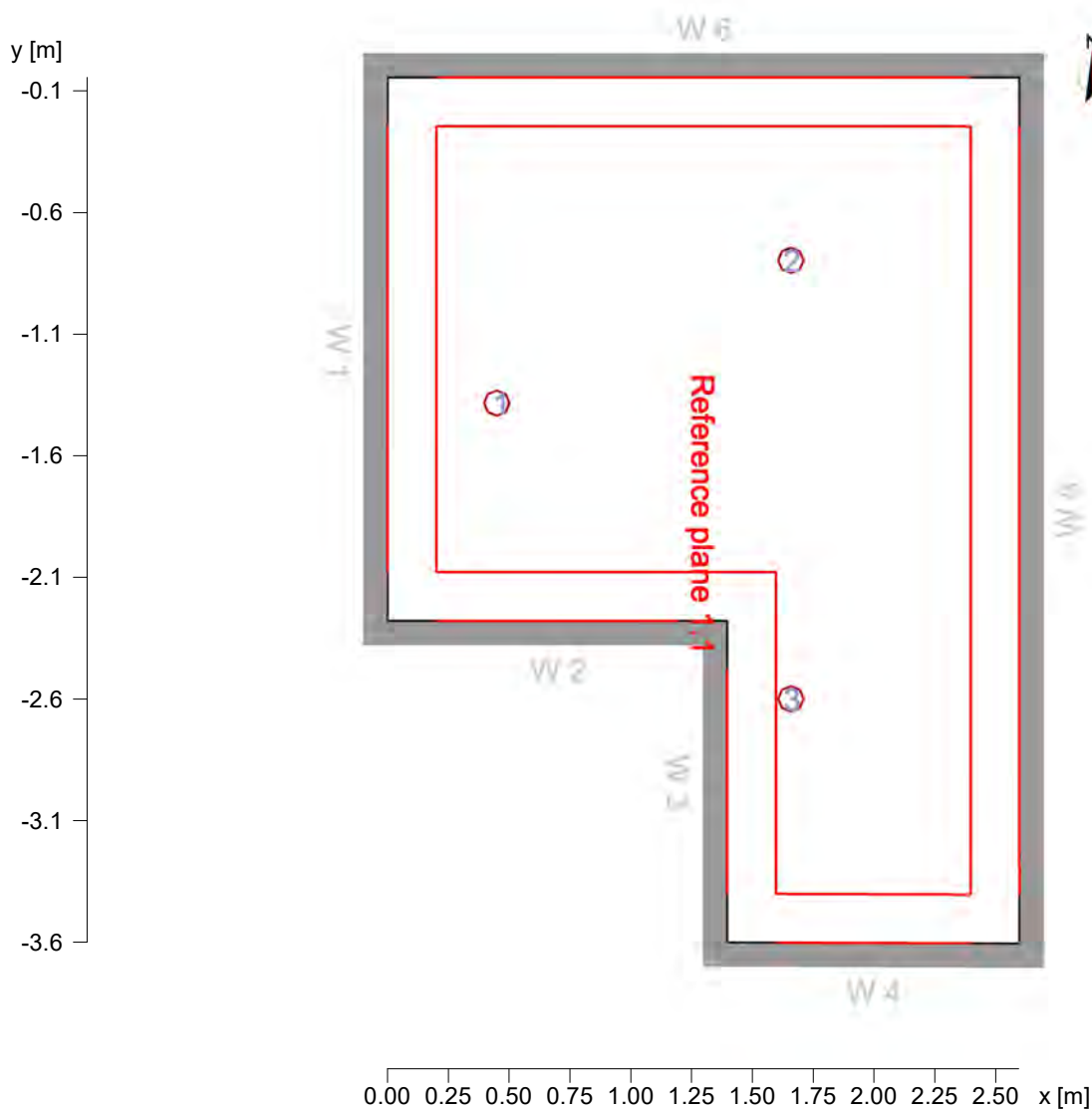
5	4 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm



8 Kitchenette

8.1 Description, Kitchenette

8.1.1 Floor plan

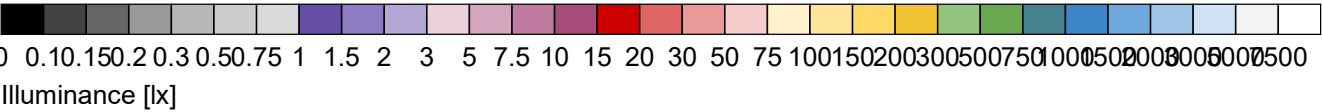
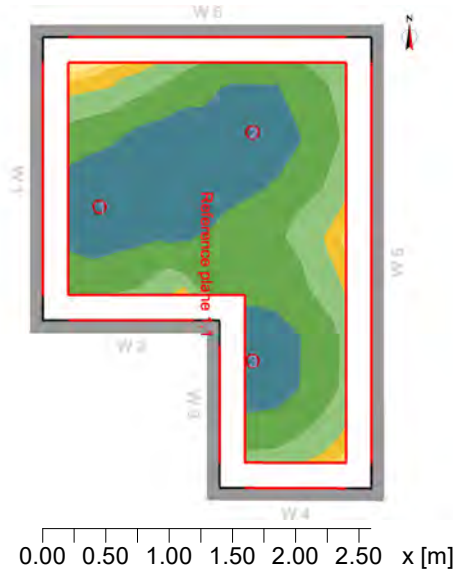


Wall	x	y	Length	Area[m²]	Reflectance
1	139.94 m	117.22 m	2.23 m	5.36	50.0 %
2	141.33 m	117.22 m	1.39 m	3.35	50.0 %
3	141.33 m	115.90 m	1.32 m	3.17	50.0 %
4	142.53 m	115.89 m	1.20 m	2.88	50.0 %
5	142.53 m	119.45 m	3.56 m	8.53	50.0 %
6	139.94 m	119.45 m	2.59 m	6.23	50.0 %
Floor:				7.4	20.0 %
Ceiling:				7.4	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume		17.7 m³			

8 Kitchenette

8.2 Summary, Kitchenette

8.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	6720.00 lm
Luminaire luminous flux	6315.14 lm
Total power	57.6 W
Total power per area (7.38 m²)	7.81 W/m² (1.16 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	675 lx	150 lx
E_{min}	268 lx	56 lx
$E_{min}/\bar{E}_m (U_o)$	0.40	0.37
$E_{min}/E_{max} (U_d)$	0.27	
E_z/E_h		0.20
Position	0.75 m	1.20 m
RUG (3.1H 2.3H)	≤ 18.4	

Luminaire :
(Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standard no cable - Black - Matte White - 19.2W 2110lm)

Major surfaces

	$\bar{E}_m$	U_o
M 1.7 (Ceiling)	64 lx	0.76
M 1.1 (Wall)	174 lx	0.22
M 1.2 (Wall)	120 lx	0.37
M 1.3 (Wall)	275 lx	0.12
M 1.4 (Wall)	99 lx	0.48

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



8 Kitchenette

8.2 Summary, Kitchenette

8.2.1 Result overview, Evaluation area 1

M 1.5 (Wall)	115 lx	0.40
M 1.6 (Wall)	117 lx	0.36

Type No.\Make

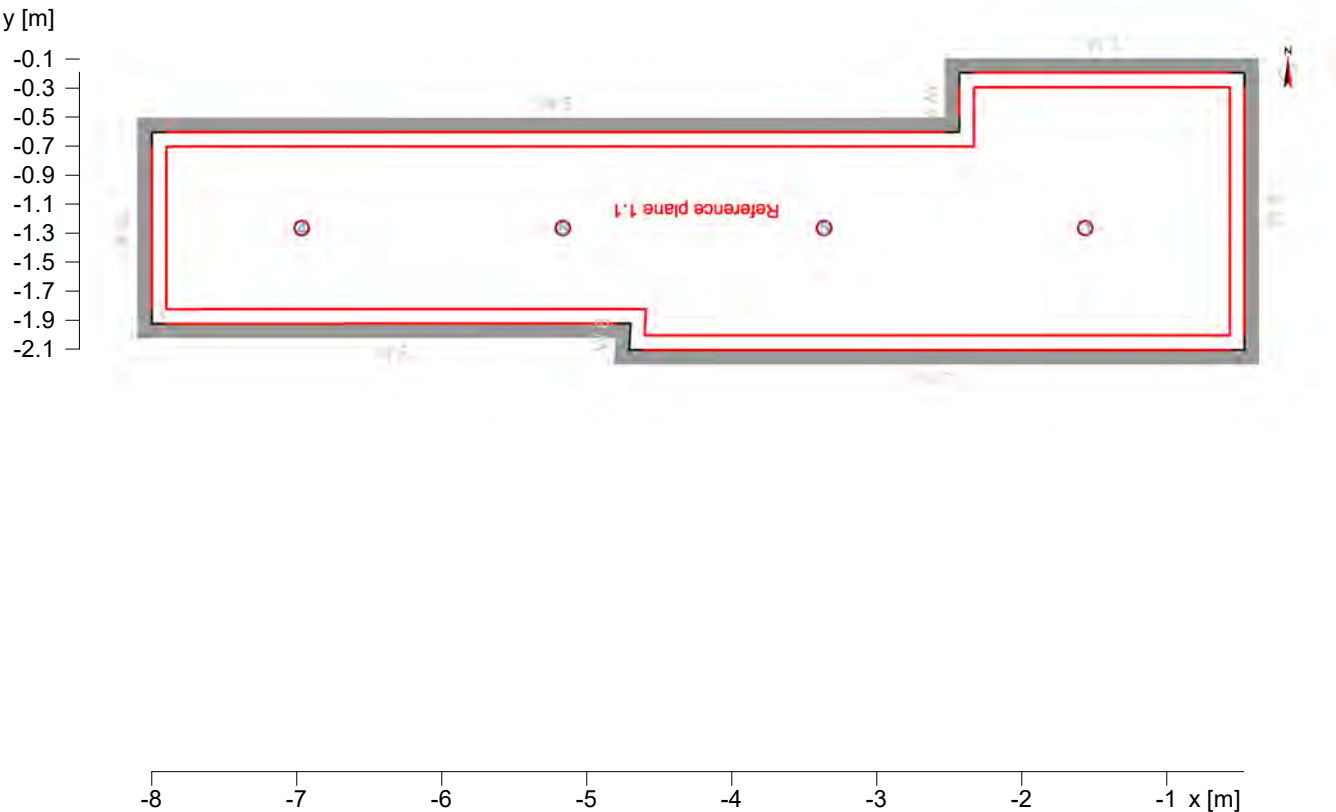
11	3 x		iGuzzini
			Order No. : LSEVO-AAH6HS
			Luminaire name : Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
			Equipment : 1 x LED / 17W 19.2 W / 2240 lm



9 Circulation

9.1 Description, Circulation

9.1.1 Floor plan

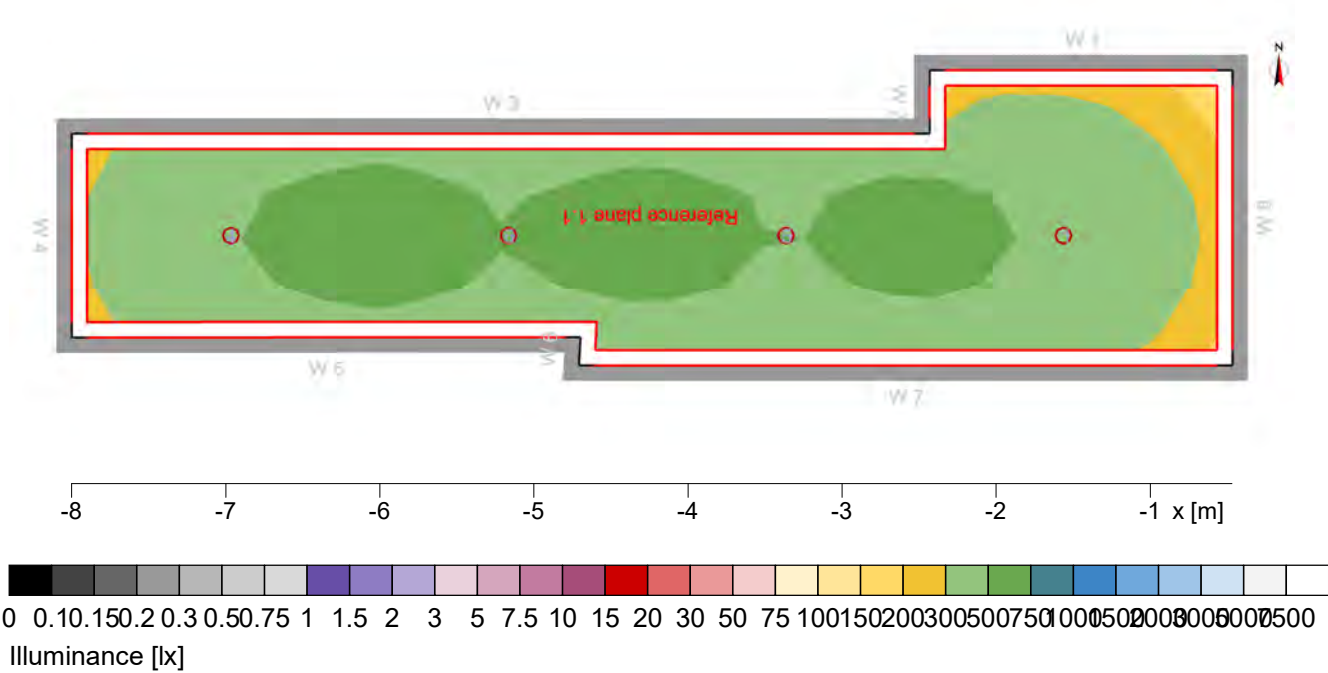


Wall	x	y	Length	Area[m²]	Reflectance
1	144.38 m	116.19 m	1.96 m	4.72	50.0 %
2	144.38 m	115.78 m	0.41 m	0.98	50.0 %
3	138.82 m	115.78 m	5.57 m	13.36	50.0 %
4	138.82 m	114.46 m	1.32 m	3.17	50.0 %
5	142.12 m	114.46 m	3.30 m	7.92	50.0 %
6	142.11 m	114.28 m	0.18 m	0.44	50.0 %
7	146.35 m	114.28 m	4.24 m	10.18	50.0 %
8	146.35 m	116.19 m	1.91 m	4.58	50.0 %
Floor:				11.5	20.0 %
Ceiling:				11.5	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		27.6 m³			

9 Circulation

9.2 Summary, Circulation

9.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	8960.00 lm
Luminaire luminous flux	8420.18 lm
Total power	76.8 W
Total power per area (11.50 m²)	6.68 W/m² (1.47 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	453 lx	cylindrical
E_{min}	197 lx	121 lx
$E_{min}/\bar{E}_m (U_o)$	0.44	62 lx
$E_{min}/E_{max} (U_d)$	0.34	0.51
E_z/E_h		0.23
Position	0.00 m	0.45 m
RUG (1.7H 6.6H)	≤ 18.1	

Luminaire : (Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standard no cable - Black - Matte White - 19.2W 2110lm)

Major surfaces

	$\bar{E}_m$	U_o
M 1.31 (Ceiling)	48 lx	0.59
M 1.1 (Wall)	65 lx	0.38
M 1.7 (Wall)	48 lx	0.43
M 1.9 (Wall)	136 lx	0.22
M 1.10 (Wall)	92 lx	0.38

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



9 Circulation

9.2 Summary, Circulation

9.2.1 Result overview, Evaluation area 1

M 1.11 (Wall)	142 lx	0.22
M 1.29 (Wall)	98 lx	0.25
M 1.30 (Wall)	63 lx	0.43

Type No.\Make

11 4 x 	iGuzzini	
	Order No.	: LSEVO-AAH6HS
	Luminaire name	: Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
	Equipment	: 1 x LED / 17W 19.2 W / 2240 lm

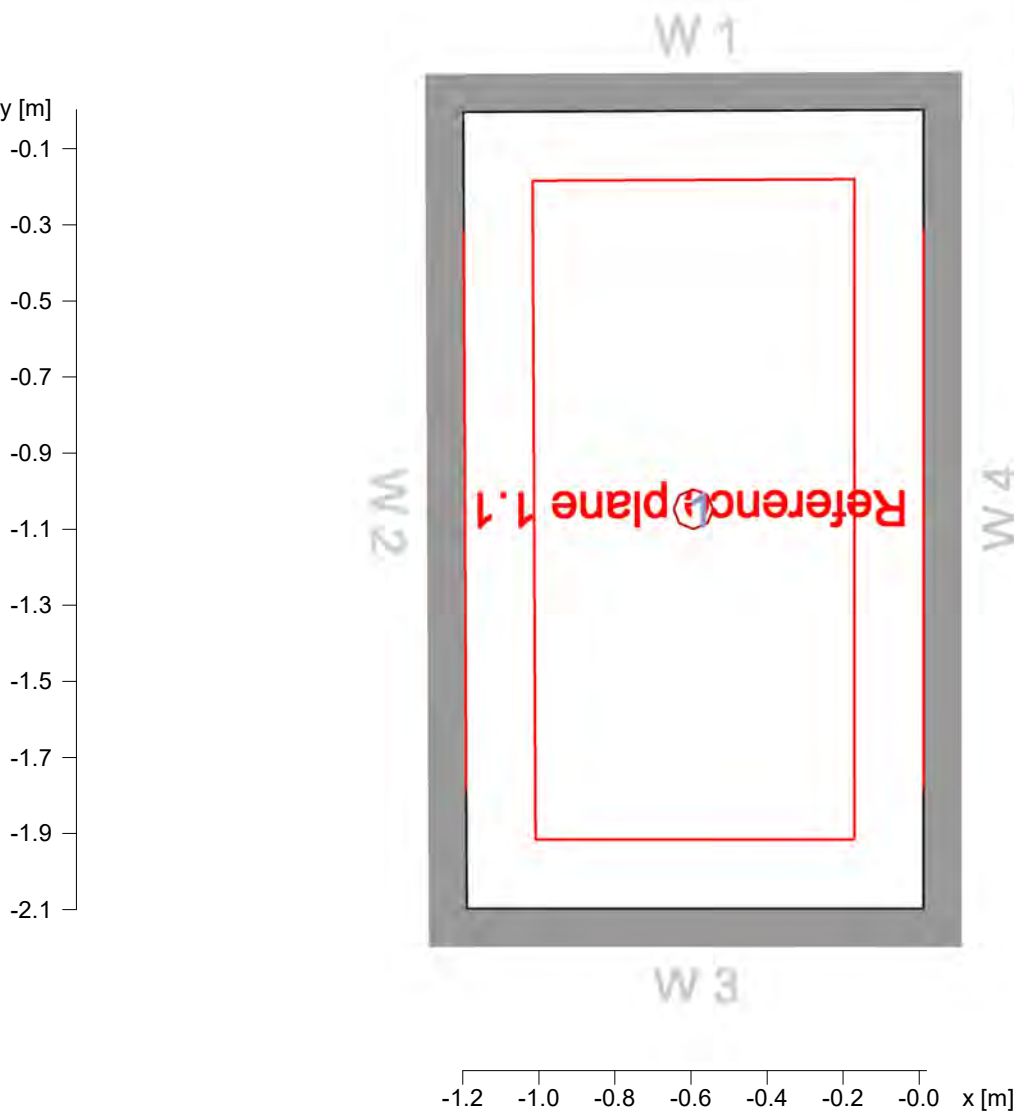
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



10 WC 1

10.1 Description, WC 1

10.1.1 Floor plan

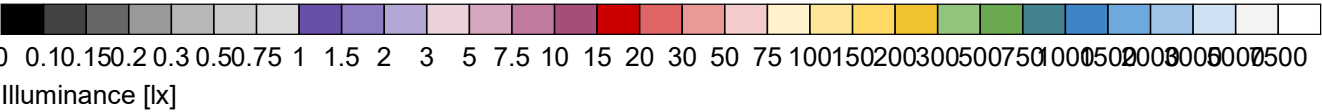


Wall	x	y	Length	Area[m²]	Reflectance
1	145.14 m	114.15 m	1.21 m	2.90	50.0 %
2	145.15 m	112.06 m	2.09 m	5.02	50.0 %
3	146.35 m	112.06 m	1.20 m	2.88	50.0 %
4	146.35 m	114.16 m	2.10 m	5.03	50.0 %
Floor:				2.5	20.0 %
Ceiling:				2.5	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		6.1 m³			

10 WC 1

10.2 Summary, WC 1

10.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	2240.00 lm
Luminaire luminous flux	2105.05 lm
Total power	19.2 W
Total power per area (2.52 m²)	7.61 W/m² (1.86 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	409 lx	110 lx
E_{min}	324 lx	78 lx
$E_{min}/\bar{E}_m (U_o)$	0.79	0.71
$E_{min}/E_{max} (U_d)$	0.68	
E_z/E_h		0.20
Position	0.00 m	0.45 m
RUG (1.1H 1.8H)	10.0	

Luminaire :
(Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standard no cable - Black - Matte White - 19.2W 2110lm)
Hints:
- Encountered room dimensions less than 2H. RUG value has been set to 10 as lower limit.

Major surfaces

	$\bar{E}_m$	U_o
M 1.7 (Ceiling)	38 lx	0.82
M 1.5 (Wall)	161 lx	0.20
M 1.6 (Wall)	160 lx	0.20

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



10 WC 1

10.2 Summary, WC 1

10.2.1 Result overview, Evaluation area 1

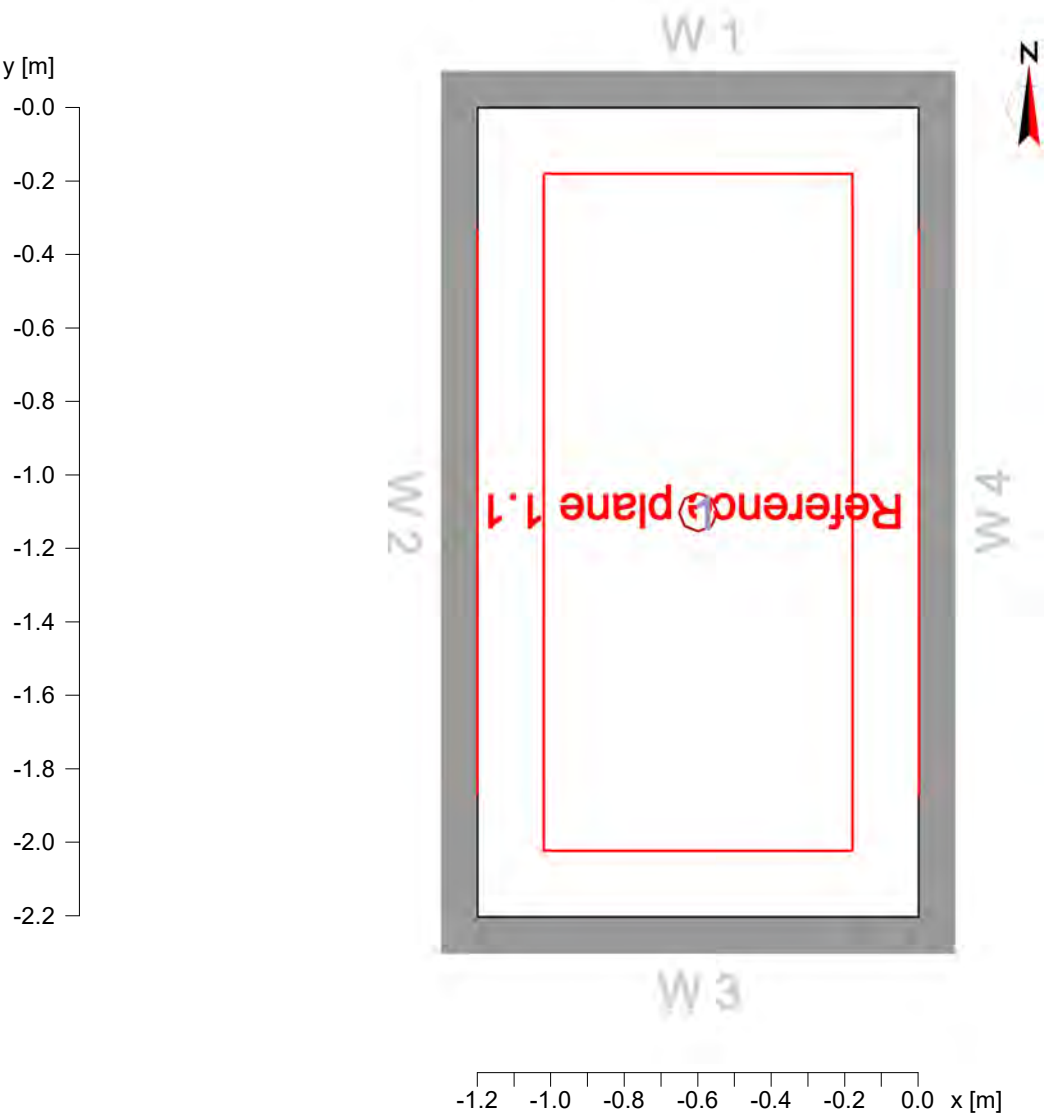
Type No. Make

11	1 x		iGuzzini
			Order No. : LSEVO-AAH6HS
			Luminaire name : Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
			Equipment : 1 x LED / 17W 19.2 W / 2240 lm

11 WC 2

11.1 Description, WC 2

11.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	143.83 m	114.16 m	1.20 m	2.88	50.0 %
2	143.83 m	111.96 m	2.20 m	5.28	50.0 %
3	145.03 m	111.96 m	1.20 m	2.88	50.0 %
4	145.03 m	114.16 m	2.20 m	5.28	50.0 %
Floor:				2.6	20.0 %
Ceiling:				2.6	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		6.3 m³			

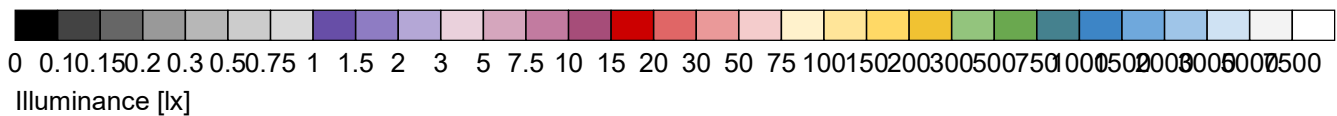
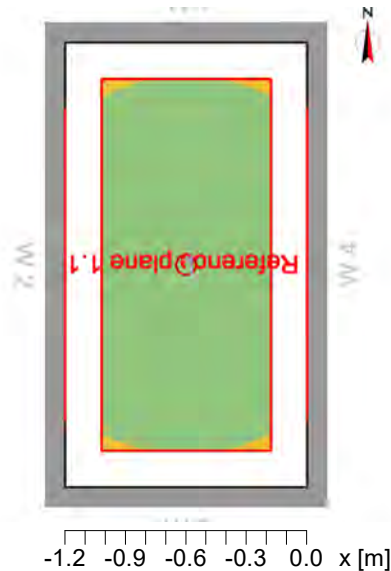
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



11 WC 2

11.2 Summary, WC 2

11.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (2.64 m²)

2240.00 lm
 2105.05 lm
 19.2 W
 7.27 W/m² (1.81 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	402 lx	108 lx
E_{min}	310 lx	76 lx
$E_{min}/\bar{E}_m (U_o)$	0.77	0.70
$E_{min}/E_{max} (U_d)$	0.65	
E_z/E_h		0.21
Position	0.00 m	0.45 m
RUG (1.0H 1.9H)	10.0	

Luminaire :

(Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standard no cable - Black - Matte White - 19.2W 2110lm)

Hints:

- Encountered room dimensions less than 2H. RUG value has been set to 10 as lower limit.

Major surfaces

	$\bar{E}_m$	U_o
M 1.7 (Ceiling)	37 lx	0.82
M 1.5 (Wall)	157 lx	0.20
M 1.6 (Wall)	157 lx	0.20

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



11 WC 2

11.2 Summary, WC 2

11.2.1 Result overview, Evaluation area 1

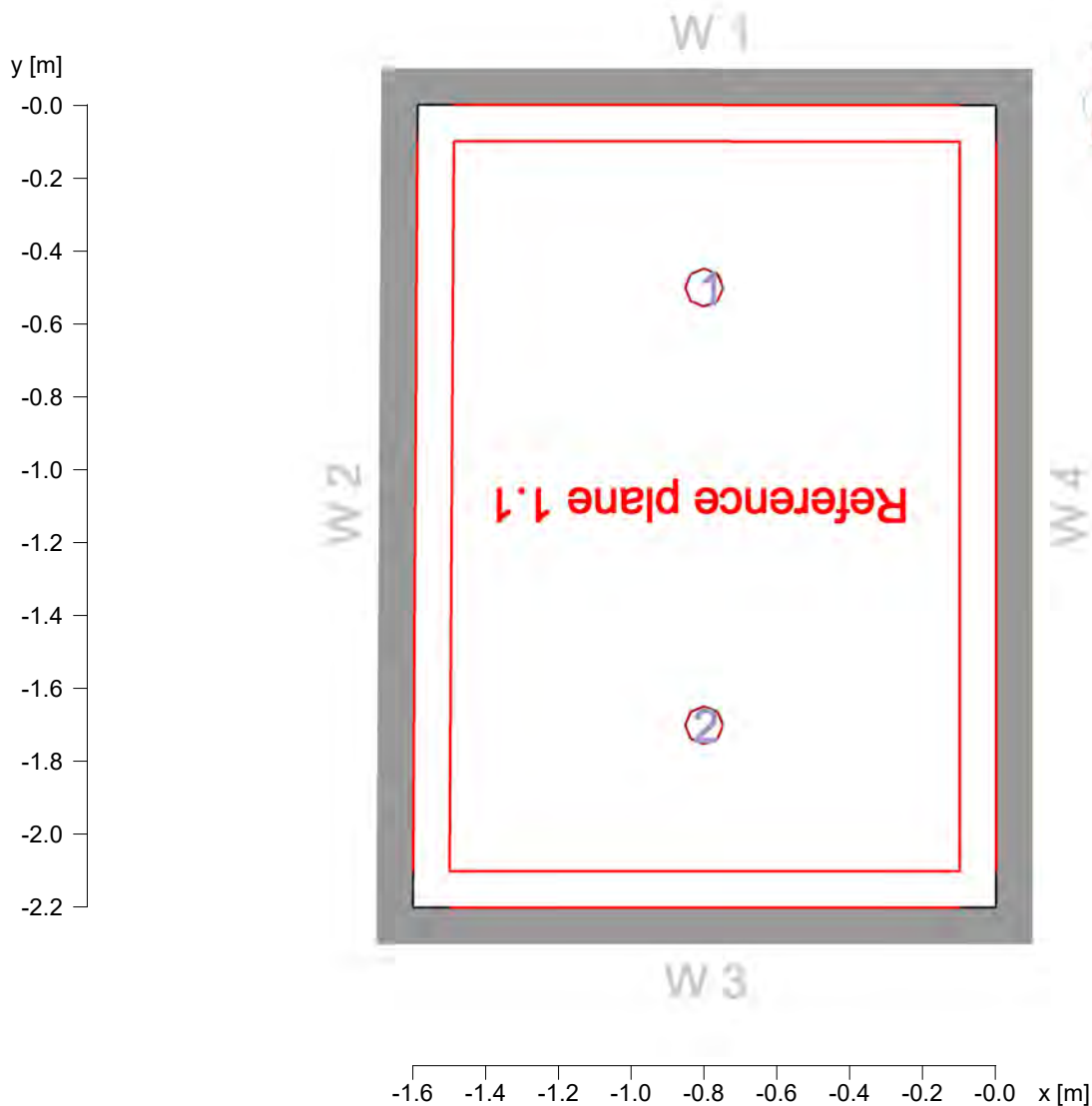
Type No. Make

11	1 x		iGuzzini	
			Order No.	: LSEVO-AAH6HS
			Luminaire name	: Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
			Equipment	: 1 x LED / 17W 19.2 W / 2240 lm

12 Dis. WC

12.1 Description, Dis. WC

12.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	142.12 m	114.16 m	1.59 m	3.81	50.0 %
2	142.11 m	111.96 m	2.20 m	5.28	50.0 %
3	143.71 m	111.96 m	1.60 m	3.84	50.0 %
4	143.71 m	114.16 m	2.20 m	5.28	50.0 %
Floor:				3.5	20.0 %
Ceiling:				3.5	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		----			
Volume		8.4 m³			

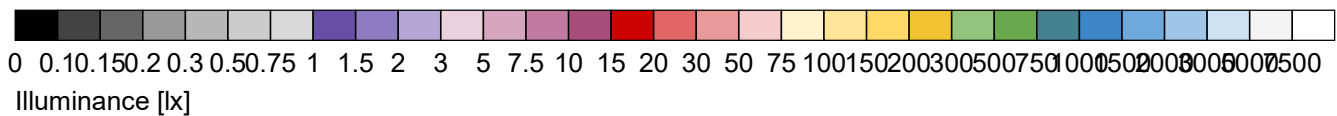
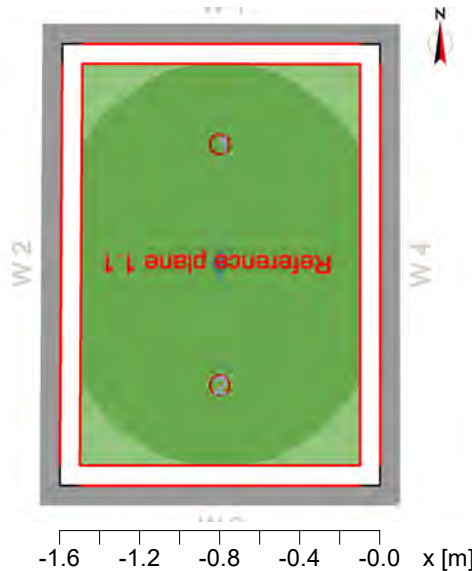
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



12 Dis. WC

12.2 Summary, Dis. WC

12.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (3.51 m²)

4480.00 lm
 4210.09 lm
 38.4 W
 10.95 W/m² (1.77 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	618 lx	169 lx
E_{min}	470 lx	133 lx
$E_{min}/\bar{E}_m (U_o)$	0.76	0.79
$E_{min}/E_{max} (U_d)$	0.62	
E_z/E_h		0.23
Position	0.00 m (rot: 0°/0.05°)	0.00 m (rot: 0°/0.05°)
RUG (1.4H 1.9H)	10.0	

Luminaire :

(Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standard no cable - Black - Matte White - 19.2W 2110lm)

Hints:

- Encountered room dimensions less than 2H. RUG value has been set to 10 as lower limit.

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	66 lx	0.81
M 1.1 (Wall)	204 lx	0.23
M 1.2 (Wall)	166 lx	0.28

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



12 Dis. WC

12.2 Summary, Dis. WC

12.2.1 Result overview, Evaluation area 1

M 1.3 (Wall)	203 lx	0.23
M 1.4 (Wall)	164 lx	0.28

Type No.\Make

11	2 x		iGuzzini
			Order No. : LSEVO-AAH6HS
			Luminaire name : Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
			Equipment : 1 x LED / 17W 19.2 W / 2240 lm

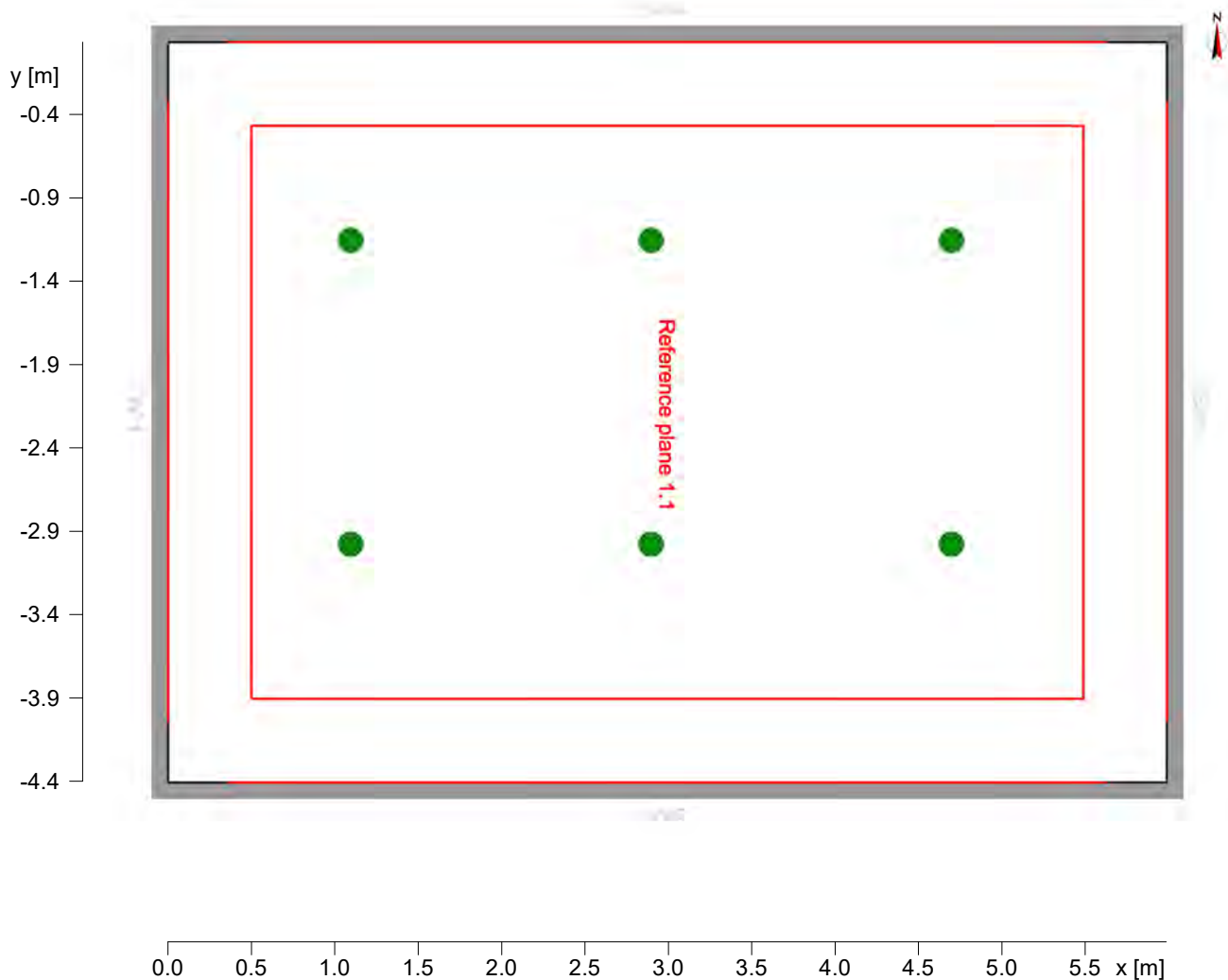
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



13 Office 5

13.1 Description, Office 5

13.1.1 Floor plan

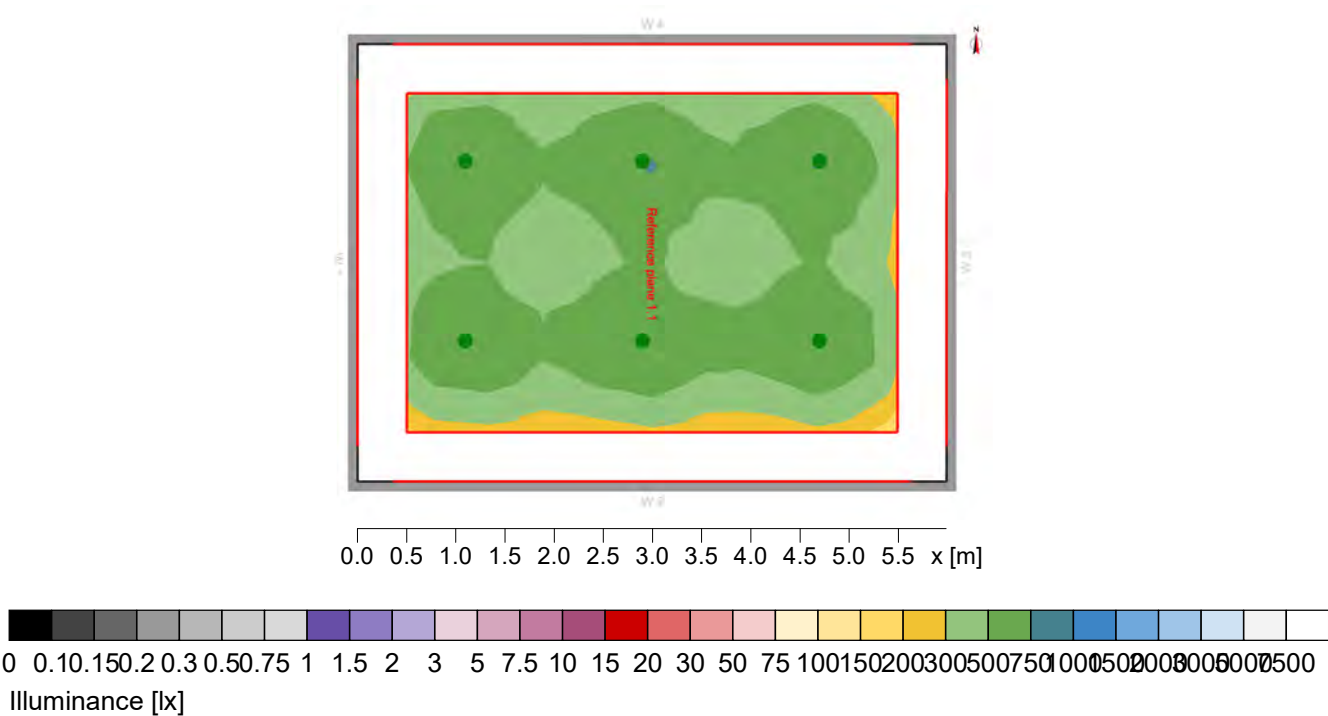


Wall	x	y	Length	Area[m²]	Reflectance
1	138.82 m	106.90 m	4.43 m	10.64	50.0 %
2	144.80 m	106.90 m	5.98 m	14.36	50.0 %
3	144.80 m	111.34 m	4.43 m	10.64	50.0 %
4	138.82 m	111.34 m	5.98 m	14.36	50.0 %
Floor:				26.5	20.0 %
Ceiling:				26.5	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume				63.7 m³	

13 Office 5

13.2 Summary, Office 5

13.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	14700.00 lm
Luminaire luminous flux	13374.53 lm
Total power	100.8 W
Total power per area (26.54 m²)	3.80 W/m² (0.71 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	537 lx	cylindrical
E_{min}	295 lx	130 lx
$E_{min}/\bar{E}_m (U_o)$	0.55	77 lx
$E_{min}/E_{max} (U_d)$	0.38	0.59
E_z/E_h		0.22
Position	0.75 m	1.20 m
RUG (3.7H 5.0H)	≤ 18.4	
Luminaire : (Easy Space - GL - $\varnothing 153$ mm, LED, QV86-D8, 16.8 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	59 lx	0.75
M 1.1 (Wall)	101 lx	0.49
M 1.2 (Wall)	78 lx	0.59
M 1.3 (Wall)	83 lx	0.56
M 1.4 (Wall)	97 lx	0.51

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



13 Office 5

13.2 Summary, Office 5

13.2.1 Result overview, Evaluation area 1

Type No. Make

5	6 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm



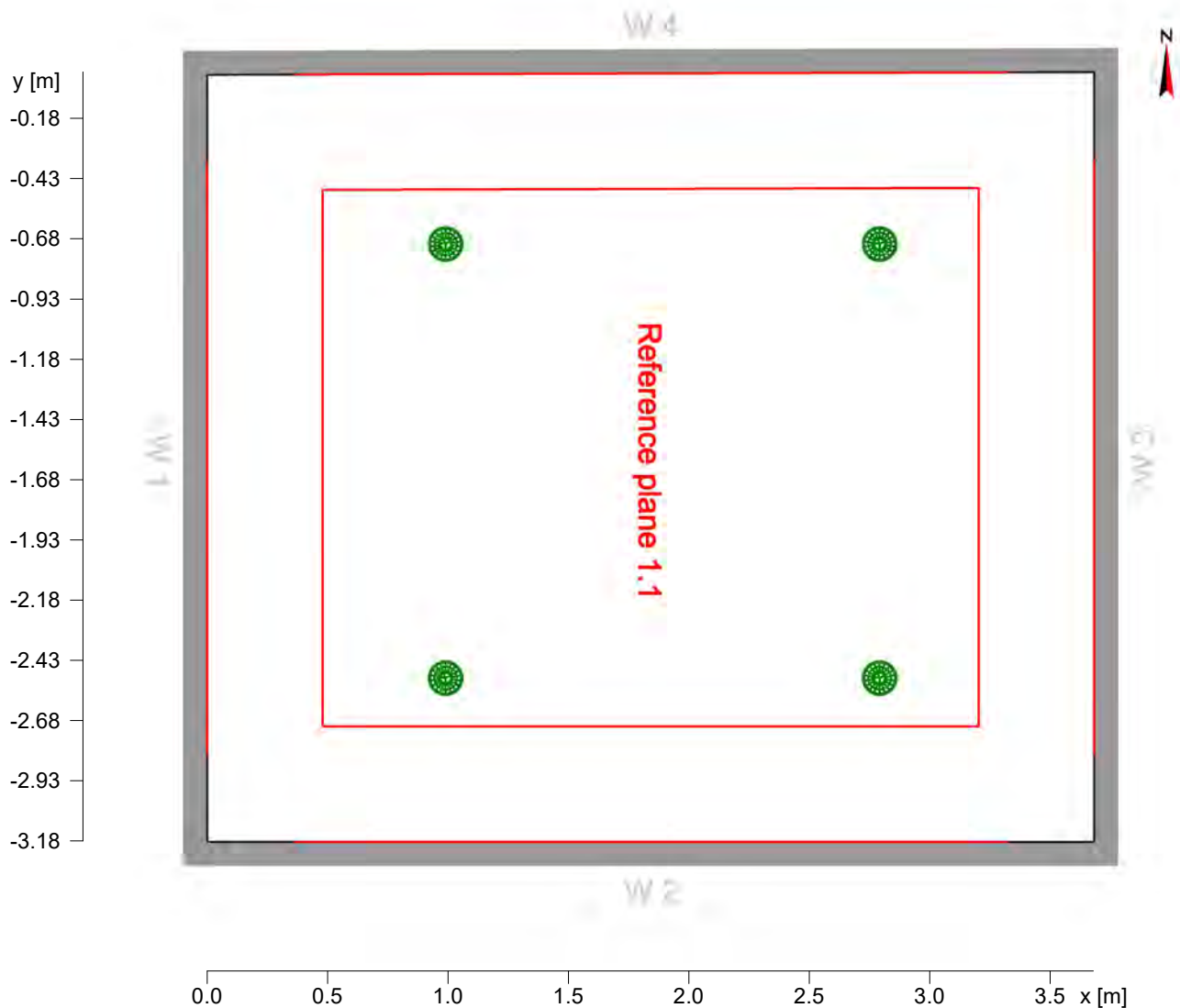
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



14 Office 6

14.1 Description, Office 6

14.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	138.82 m	103.60 m	3.18 m	7.64	50.0 %
2	142.50 m	103.60 m	3.68 m	8.83	50.0 %
3	142.50 m	106.80 m	3.19 m	7.66	50.0 %
4	138.82 m	106.78 m	3.68 m	8.83	50.0 %
Floor:				11.7	20.0 %
Ceiling:				11.7	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume		28.1 m³			

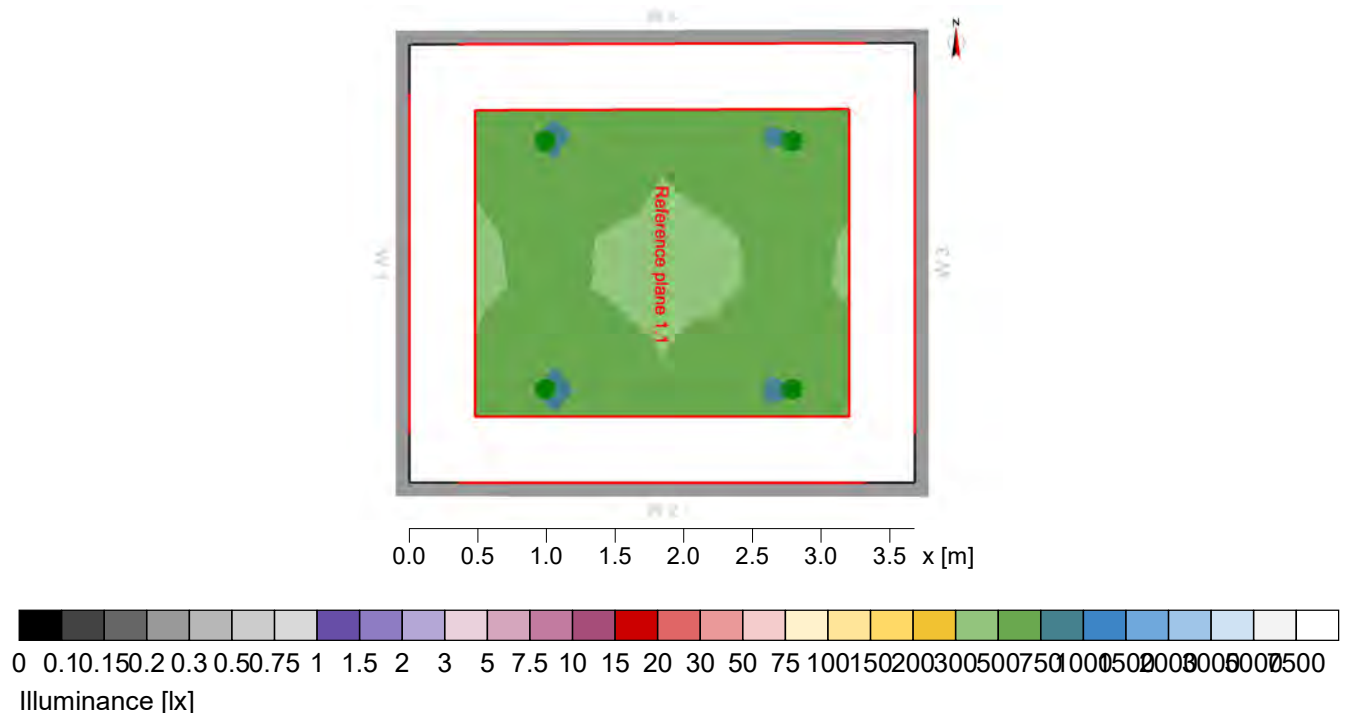
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



14 Office 6

14.2 Summary, Office 6

14.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	9800.00 lm
Luminaire luminous flux	8916.35 lm
Total power	67.2 W
Total power per area (11.73 m ²)	5.73 W/m ² (0.94 W/m ² /100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
E_{min}	609 lx	157 lx
$E_{min}/\bar{E}_m (U_o)$	401 lx	107 lx
$E_{min}/E_{max} (U_d)$	0.66	0.68
E_z/E_h	0.51	0.22
Position	0.75 m	1.20 m
RUG (3.1H 2.7H)	<=18.0	
Luminaire : (Easy Space - GL - ø153mm, LED, QV86-D8, 16.8 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	78 lx	0.91
M 1.1 (Wall)	142 lx	0.61
M 1.2 (Wall)	195 lx	0.46
M 1.3 (Wall)	158 lx	0.55
M 1.4 (Wall)	188 lx	0.48

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



14 Office 6

14.2 Summary, Office 6

14.2.1 Result overview, Evaluation area 1

Type No. Make

5	4 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm

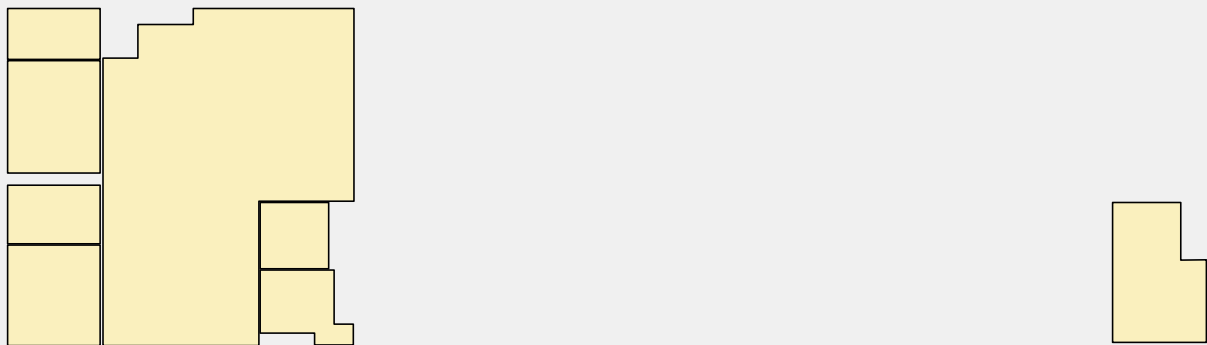


Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



Summary, Workshop

.1 Floor overview



Number of rooms	8
Total area	806.0 m ²
Total volume	3130.9 m ³
Number of luminaires	170
Total luminous flux	901000 lm
Total power	6239 W
Total power per area	7.74 W/m ²

 Calculated

Parts list

Type No.\Make

8	170 x	iGuzzini	
		Order No.	: QF74-39
		Luminaire name	: Easy General Lighting ø212mm
		Equipment	: 1 x LED 36.7 W / 5300 lm

Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026

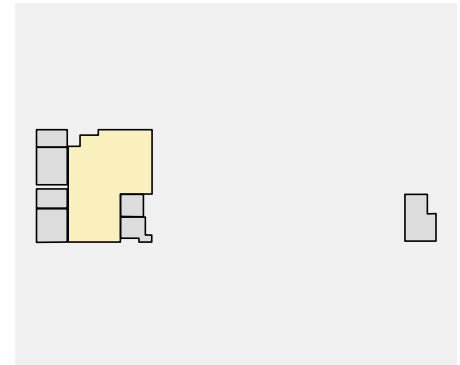


Summary, Workshop

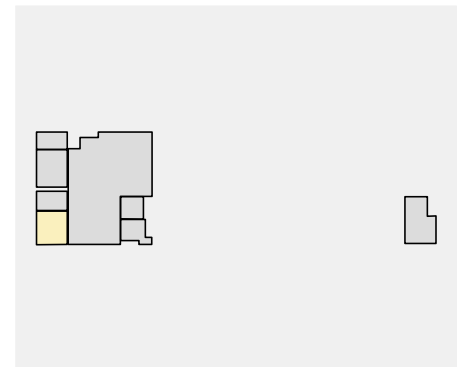
.1 Floor overview

Rooms

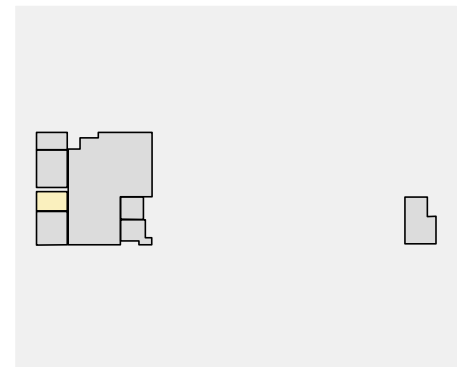
Workshop	103 x Luminaires
Floor area	460.1 m ²
Wall area (without windows)	482.8 m ²
Window area	0.0 m ²
Volume	2300.3 m ³
Total luminous flux	545900 lm
Total power	3780.1 W
Total power per area (460 m ²)	8.22 W/m ²
$\bar{E}_m$	851 lx
E_{min}	246 lx
$E_{min}/\bar{E}_m (U_o)$	0.29
RUG	<=21.8



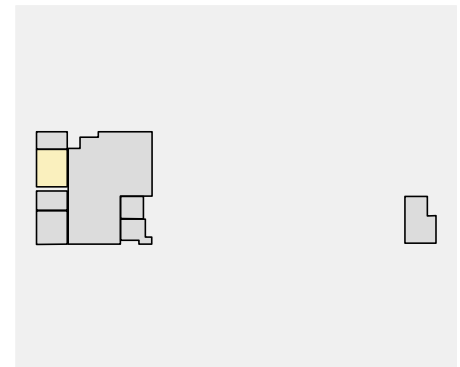
Smart repair	16 x Luminaires
Floor area	62.8 m ²
Wall area (without windows)	76.1 m ²
Window area	0.0 m ²
Volume	150.7 m ³
Total luminous flux	84800 lm
Total power	587.2 W
Total power per area (63 m ²)	9.35 W/m ²
$\bar{E}_m$	1062 lx
E_{min}	589 lx
$E_{min}/\bar{E}_m (U_o)$	0.55
RUG	<=21.7



Wet valet	8 x Luminaires
Floor area	36.5 m ²
Wall area (without windows)	59.5 m ²
Window area	0.0 m ²
Volume	87.6 m ³
Total luminous flux	42400 lm
Total power	293.6 W
Total power per area (36 m ²)	8.05 W/m ²
$\bar{E}_m$	827 lx
E_{min}	521 lx
$E_{min}/\bar{E}_m (U_o)$	0.63
RUG	<=21.9



Dry valet	16 x Luminaires
Floor area	70.1 m ²
Wall area (without windows)	80.7 m ²
Window area	0.0 m ²
Volume	168.1 m ³
Total luminous flux	84800 lm
Total power	587.2 W
Total power per area (70 m ²)	8.38 W/m ²
$\bar{E}_m$	894 lx
E_{min}	609 lx
$E_{min}/\bar{E}_m (U_o)$	0.68
RUG	<=21.7



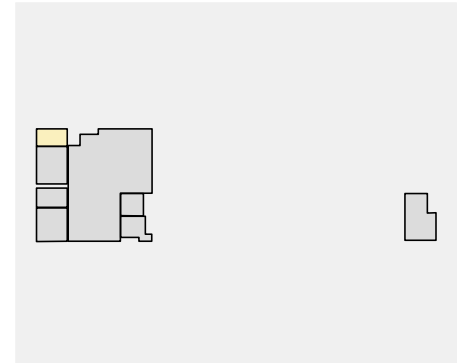
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



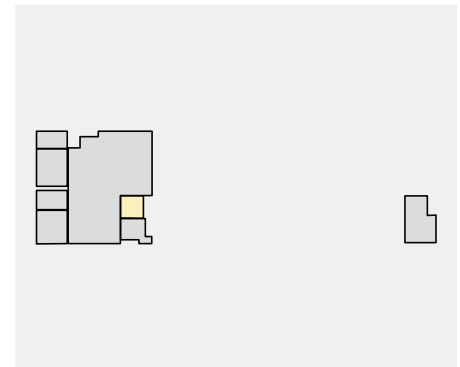
Summary, Workshop

.1 Floor overview

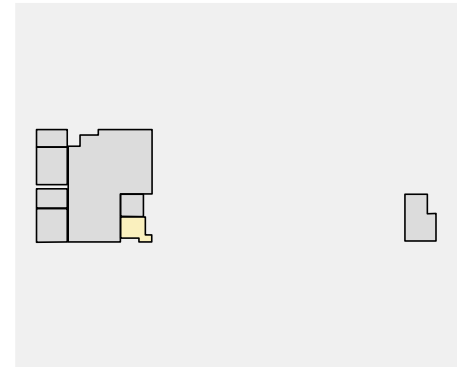
Room 19	8 x Luminaires
Floor area	31.9 m ²
Wall area (without windows)	56.6 m ²
Window area	0.0 m ²
Volume	76.5 m ³
Total luminous flux	42400 lm
Total power	293.6 W
Total power per area (32 m ²)	9.21 W/m ²
$\bar{E}_m$	872 lx
E_{min}	580 lx
$E_{min}/\bar{E}_m (U_o)$	0.67
RUG	<=21.9



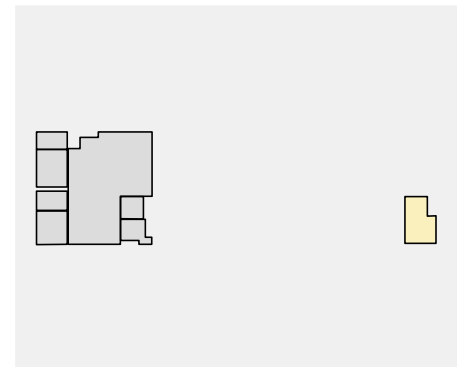
Room 38	4 x Luminaires
Floor area	30.6 m ²
Wall area (without windows)	53.1 m ²
Window area	0.0 m ²
Volume	73.5 m ³
Total luminous flux	21200 lm
Total power	146.8 W
Total power per area (31 m ²)	4.79 W/m ²
$\bar{E}_m$	548 lx
E_{min}	179 lx
$E_{min}/\bar{E}_m (U_o)$	0.33
RUG	<=22.0



Room 39	5 x Luminaires
Floor area	35.8 m ²
Wall area (without windows)	66.2 m ²
Window area	0.0 m ²
Volume	85.8 m ³
Total luminous flux	26500 lm
Total power	183.5 W
Total power per area (36 m ²)	5.13 W/m ²
$\bar{E}_m$	600 lx
E_{min}	260 lx
$E_{min}/\bar{E}_m (U_o)$	0.43
RUG	<=21.9



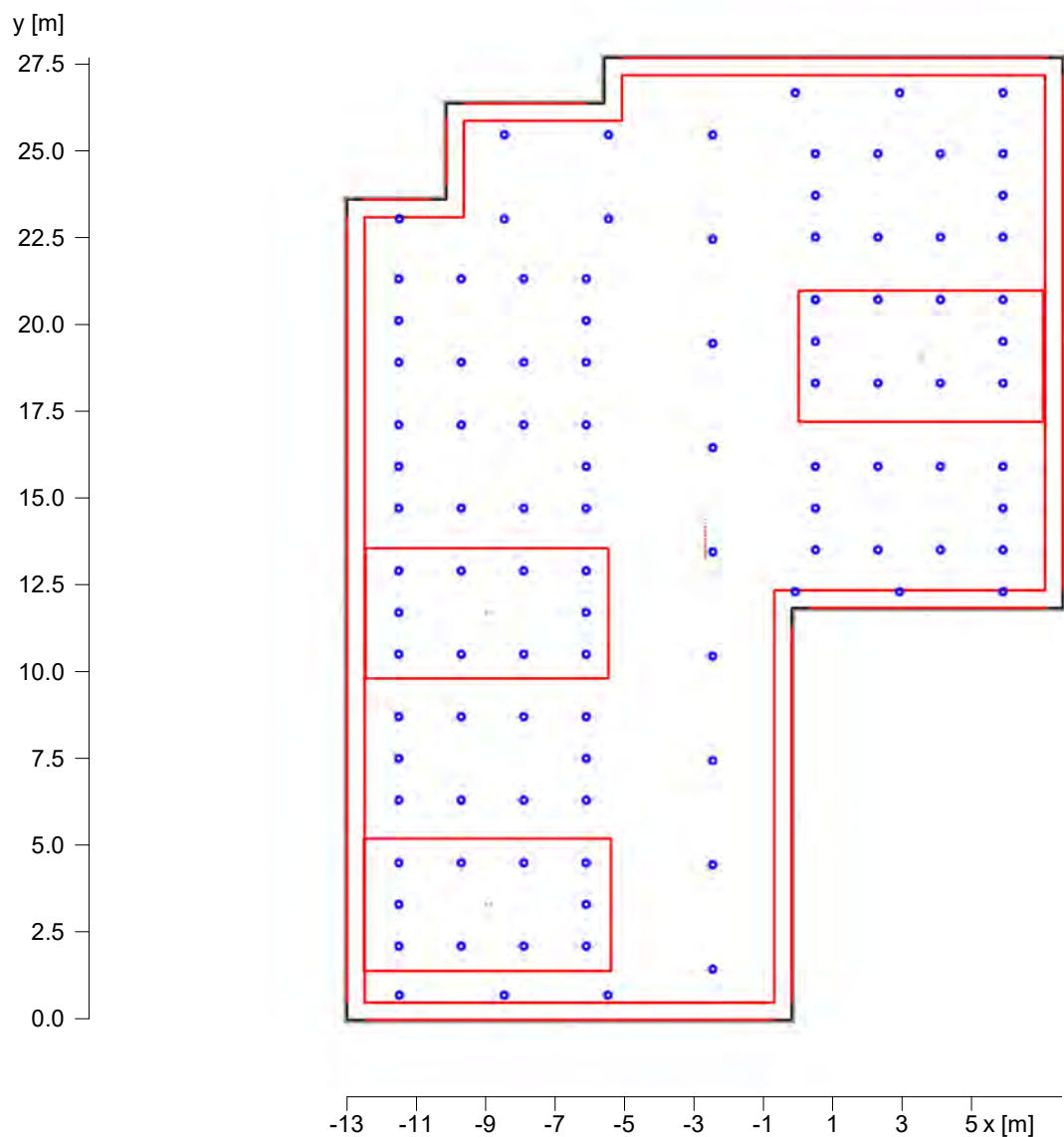
Room 40	10 x Luminaires
Floor area	78.5 m ²
Wall area (without windows)	92.3 m ²
Window area	0.0 m ²
Volume	188.4 m ³
Total luminous flux	53000 lm
Total power	367 W
Total power per area (79 m ²)	4.68 W/m ²
$\bar{E}_m$	586 lx
E_{min}	320 lx
$E_{min}/\bar{E}_m (U_o)$	0.55
RUG	<=21.7



1 Workshop

1.1 Description, Workshop

1.1.1 Floor plan



Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



1 Workshop

1.1 Description, Workshop

1.1.1 Floor plan

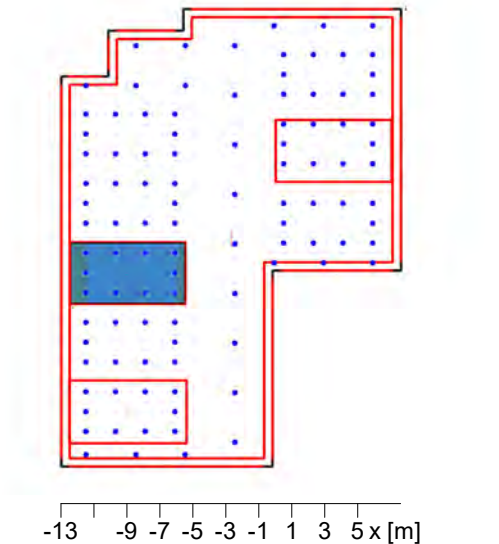
Wall	x	y	Length	Area[m²]	Reflectance
1	159.47 m	131.61 m	11.86 m	59.29	50.0 %
2	167.27 m	131.61 m	7.80 m	39.00	50.0 %
3	167.27 m	147.43 m	15.82 m	79.10	50.0 %
4	154.08 m	147.43 m	13.19 m	65.96	50.0 %
5	154.08 m	146.11 m	1.31 m	6.57	50.0 %
6	149.53 m	146.11 m	4.55 m	22.75	50.0 %
7	149.53 m	143.35 m	2.77 m	13.83	50.0 %
8	146.67 m	143.35 m	2.86 m	14.29	50.0 %
9	146.67 m	119.75 m	23.60 m	118.00	50.0 %
10	159.47 m	119.75 m	12.80 m	64.00	50.0 %
Floor:				460.1	20.0 %
Ceiling:				460.1	70.0 %
Room height [m]:		5.00 m			
Height of ref. plane [m]:		0.00 m			
Volume		2300.3 m³			



1 Workshop

1.2 Summary, Workshop

1.2.1 Result overview, Measuring area 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	5.00 m
Maintenance factor	0.80

Total luminous flux	545900 lm
Total power	3780.1 W
Total power per area (460.05 m²)	8.22 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	1100 lx
Minimum illuminance	E_{min}	870 lx
Maximum illuminance	E_{max}	1210 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.26 (0.79)
Diversity U_d	E_{min}/E_{max}	1:1.39 (0.72)

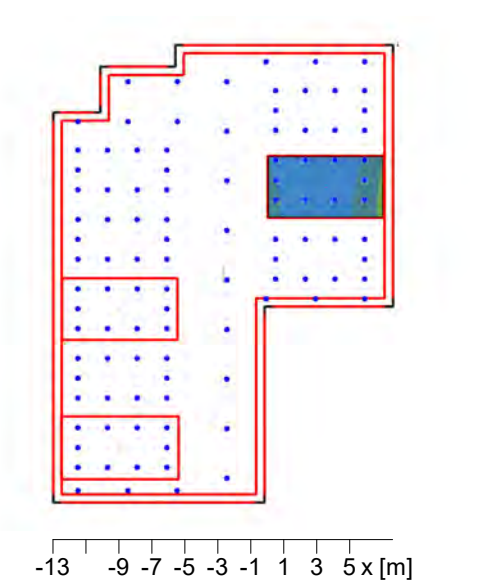
Type No. Make

8	103 x	iGuzzini	Order No.	: QF74-39
			Luminaire name	: Easy General Lighting ø212mm
			Equipment	: 1 x LED 36.7 W / 5300 lm



1.2 Summary, Workshop

1.2.2 Result overview, Measuring area 2



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	5.00 m
Maintenance factor	0.80

Total luminous flux	545900 lm
Total power	3780.1 W
Total power per area (460.05 m²)	8.22 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	1030 lx
Minimum illuminance	E_{min}	746 lx
Maximum illuminance	E_{max}	1170 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.38 (0.73)
Diversity U_d	E_{min}/E_{max}	1:1.57 (0.64)

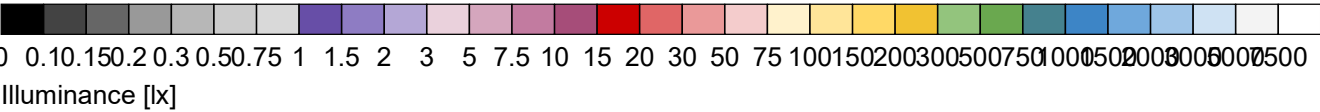
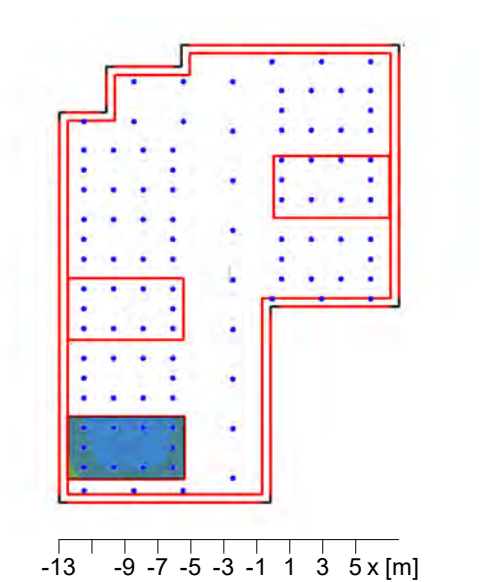
Type No. Make

8	103 x	iGuzzini	Order No.	: QF74-39
			Luminaire name	: Easy General Lighting ø212mm
			Equipment	: 1 x LED 36.7 W / 5300 lm



1.2 Summary, Workshop

1.2.3 Result overview, Measuring area 3



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	5.00 m
Maintenance factor	0.80
Total luminous flux	545900 lm
Total power	3780.1 W
Total power per area (460.05 m²)	8.22 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	1010 lx
Minimum illuminance	E_{min}	709 lx
Maximum illuminance	E_{max}	1180 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.43 (0.7)
Diversity U_d	E_{min}/E_{max}	1:1.67 (0.6)

Type No. Make

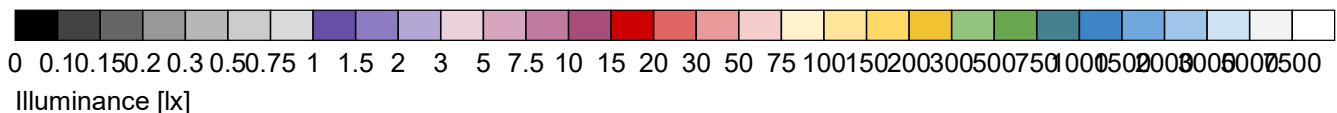
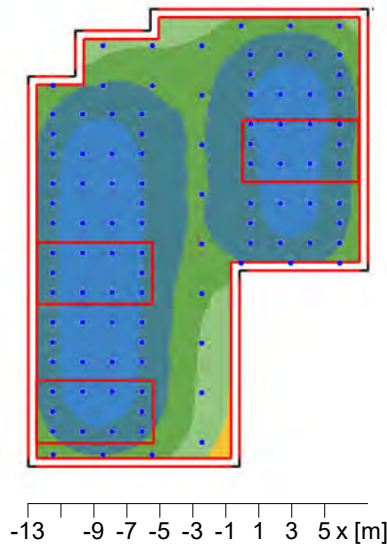
8	103 x	iGuzzini	Order No.	: QF74-39
			Luminaire name	: Easy General Lighting ø212mm
			Equipment	: 1 x LED 36.7 W / 5300 lm

Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



1.2 Summary, Workshop

1.2.4 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	5.00 m
Maintenance factor	0.80
Total lamp luminous flux	545900.00 lm
Luminaire luminous flux	491261.53 lm
Total power	3780.1 W
Total power per area (460.05 m²)	8.22 W/m² (0.97 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
E_{min}	851 lx	264 lx
$E_{min}/\bar{E}_m (U_o)$	246 lx	103 lx
$E_{min}/E_{max} (U_d)$	0.29	0.39
E_z/E_h	0.21	0.30
Position	0.00 m	0.45 m
RUG (5.4H 7.3H)	<=21.8	
Luminaire : (Easy General Lighting ø212mm, LED, QF74-39, 36.7 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.14 (Ceiling)	152 lx	0.49
M 1.1 (Wall)	159 lx	0.49
M 1.2 (Wall)	401 lx	0.36
M 1.3 (Wall)	301 lx	0.34
M 1.4 (Wall)	253 lx	0.36

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



1.2 Summary, Workshop

1.2.4 Result overview, Evaluation area 1

M 1.9 (Wall)	239 lx	0.45
M 1.10 (Wall)	196 lx	0.45
M 1.11 (Wall)	363 lx	0.33
M 1.12 (Wall)	342 lx	0.35
M 1.13 (Wall)	292 lx	0.24

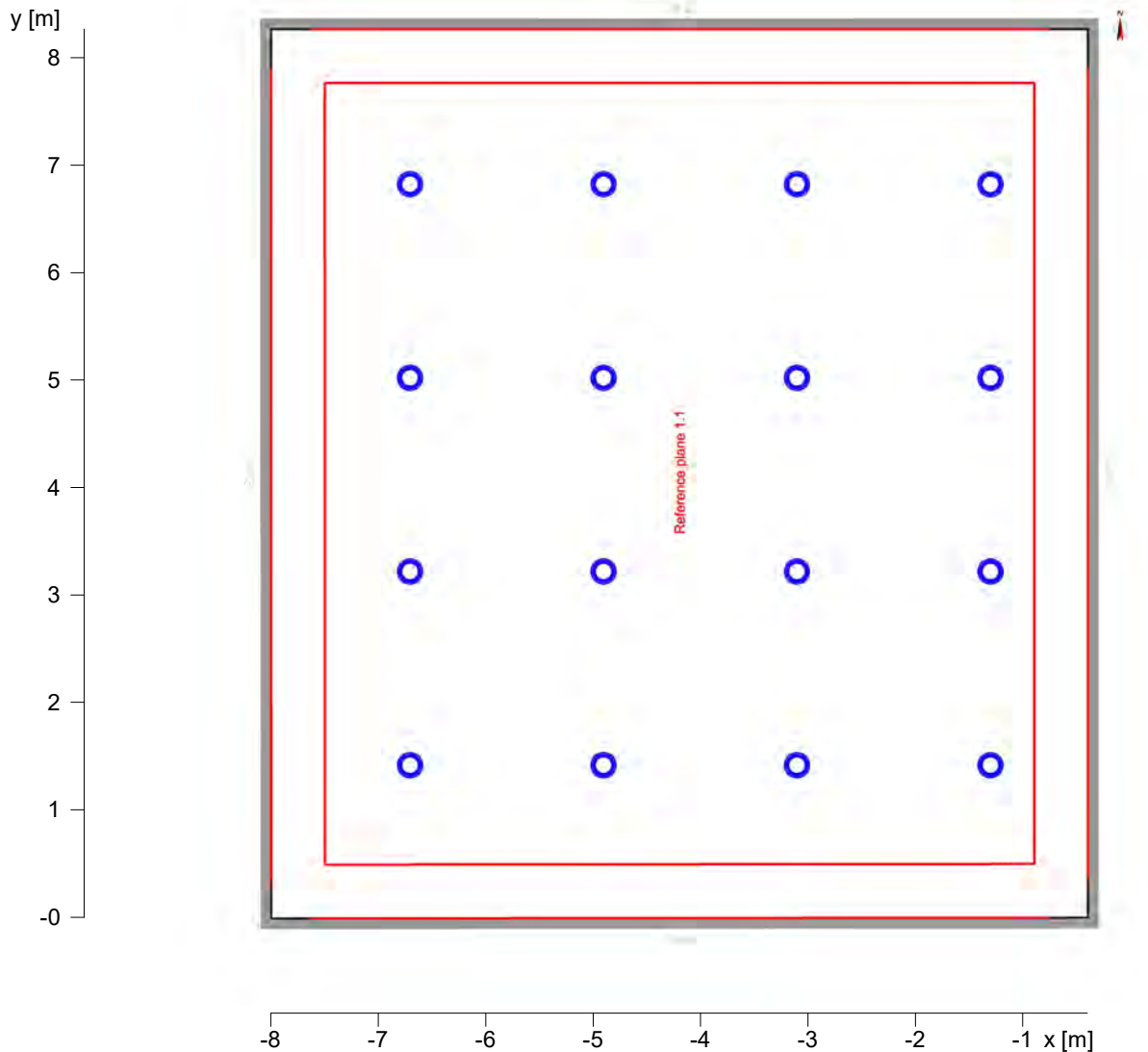
Type No. Make

	8 103 x	iGuzzini	
		Order No.	: QF74-39
		Luminaire name	: Easy General Lighting ø212mm
		Equipment	: 1 x LED 36.7 W / 5300 lm

2 Smart repair

2.1 Description, Smart repair

2.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	146.42 m	128.01 m	8.26 m	19.82	50.0 %
2	138.82 m	128.01 m	7.60 m	18.24	50.0 %
3	138.82 m	119.74 m	8.27 m	19.84	50.0 %
4	146.42 m	119.75 m	7.60 m	18.24	50.0 %
Floor:				62.8	20.0 %
Ceiling:				62.8	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		150.7 m³			

iGuzzini

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



2 Smart repair

2.2 Summary, Smart repair

2.2.1 Result overview, Evaluation area 1

Type No. Make

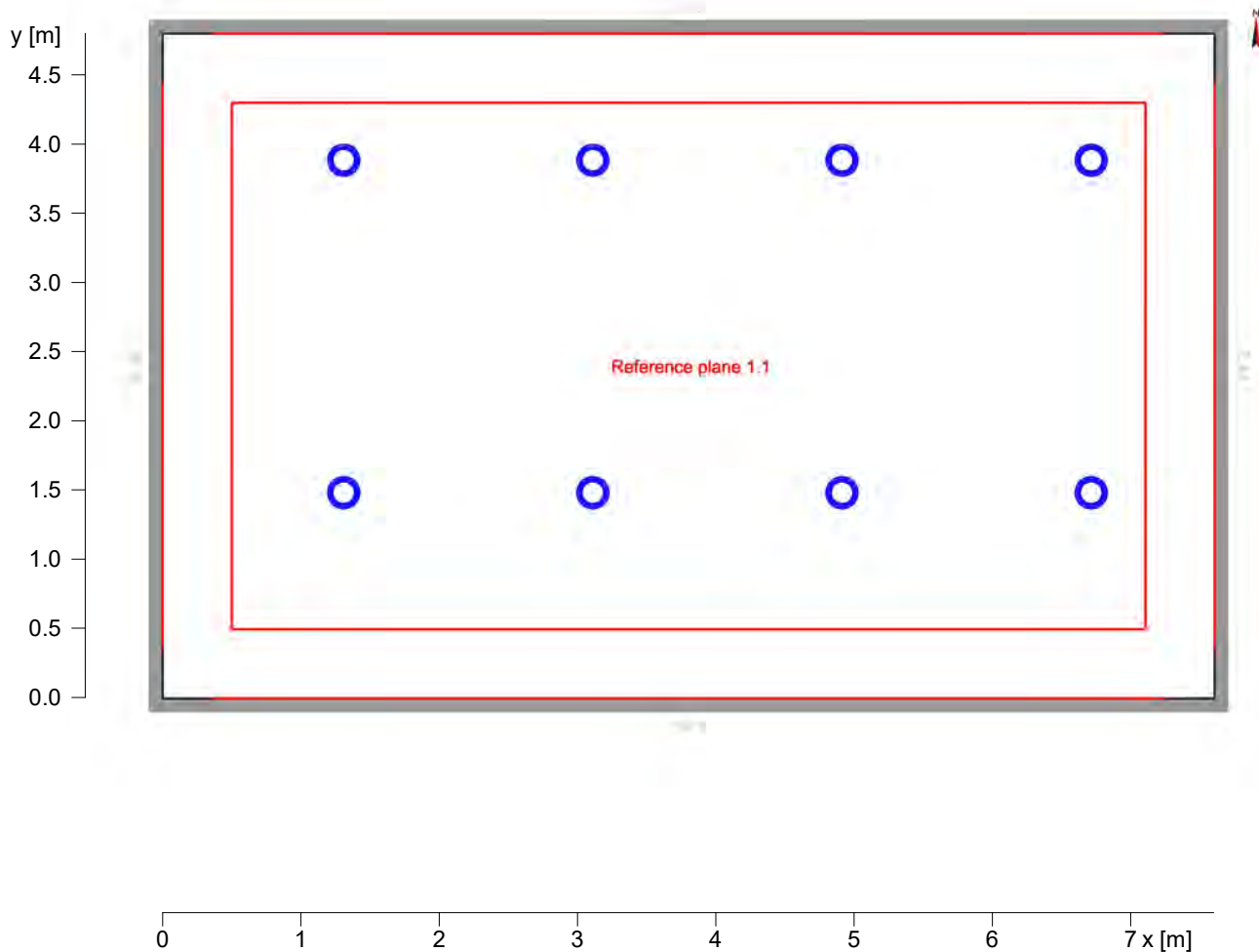
8	16 x	iGuzzini	
		Order No.	: QF74-39
		Luminaire name	: Easy General Lighting ø212mm
		Equipment	: 1 x LED 36.7 W / 5300 lm



3 Wet valet

3.1 Description, Wet valet

3.1.1 Floor plan

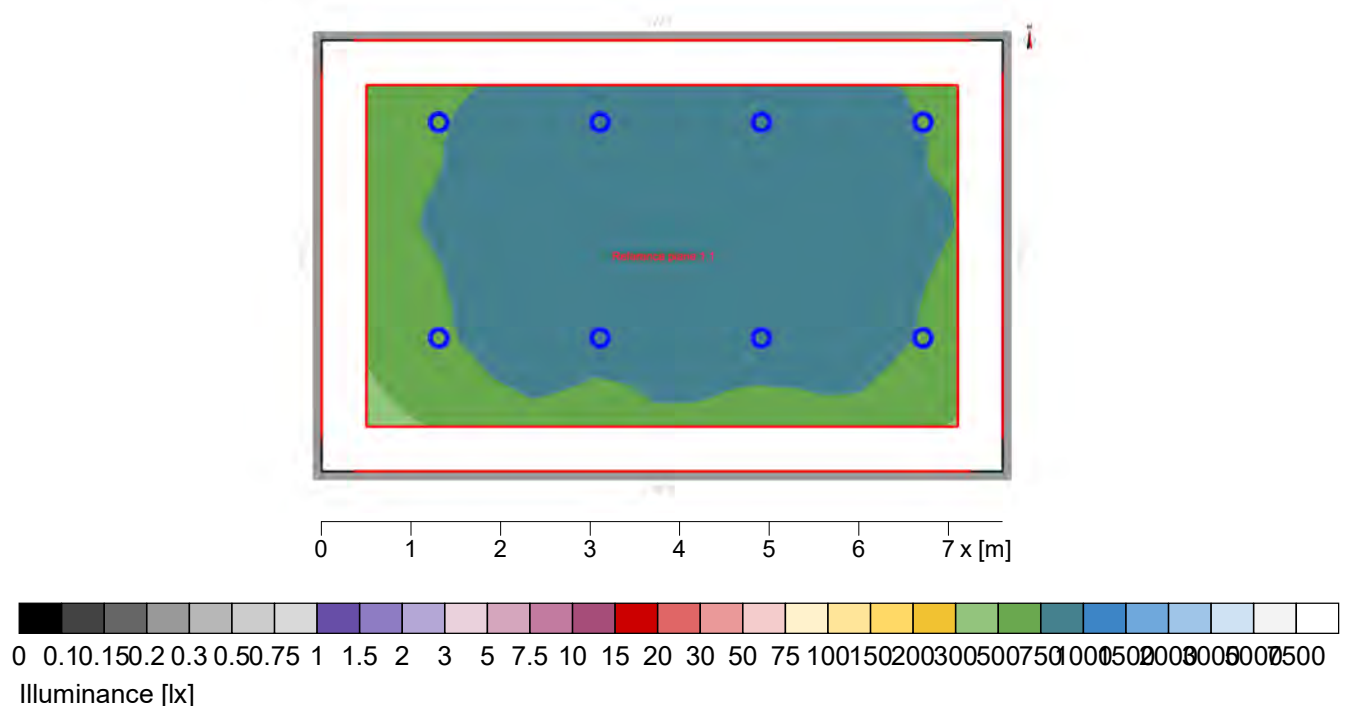


Wall	x	y	Length	Area[m²]	Reflectance
1	146.42 m	128.11 m	7.60 m	18.24	50.0 %
2	146.42 m	132.91 m	4.80 m	11.52	50.0 %
3	138.82 m	132.91 m	7.60 m	18.24	50.0 %
4	138.82 m	128.11 m	4.80 m	11.52	50.0 %
Floor:				36.5	20.0 %
Ceiling:				36.5	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		87.6 m³			

3 Wet valet

3.2 Summary, Wet valet

3.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (36.48 m²)

42400.00 lm
 38156.21 lm
 293.6 W
 8.05 W/m² (0.97 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	827 lx	cylindrical
E_{min}	521 lx	259 lx
$E_{min}/\bar{E}_m (U_o)$	0.63	172 lx
$E_{min}/E_{max} (U_d)$	0.53	0.67
E_z/E_h		0.29
Position	0.00 m	0.45 m
RUG (6.4H 4.0H)	<=21.9	
Luminaire : (Easy General Lighting ø212mm, LED, QF74-39, 36.7 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	136 lx	0.70
M 1.1 (Wall)	198 lx	0.41
M 1.2 (Wall)	300 lx	0.28
M 1.3 (Wall)	337 lx	0.25
M 1.4 (Wall)	197 lx	0.41

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



3 Wet valet

3.2 Summary, Wet valet

3.2.1 Result overview, Evaluation area 1

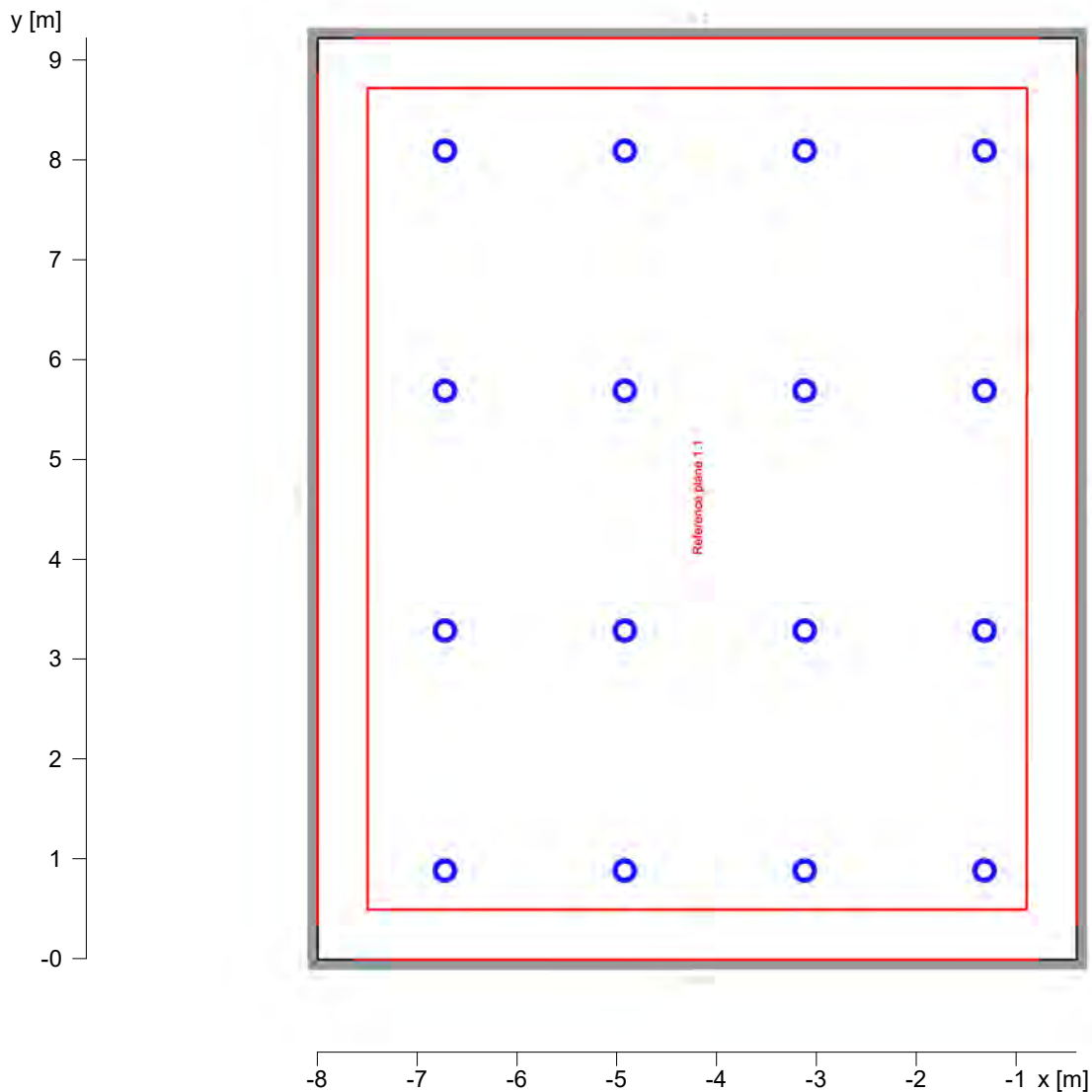
Type No. Make

8	8 x	iGuzzini	
		Order No.	: QF74-39
		Luminaire name	: Easy General Lighting ø212mm
		Equipment	: 1 x LED 36.7 W / 5300 lm

4 Dry valet

4.1 Description, Dry valet

4.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	146.42 m	143.13 m	9.22 m	22.12	50.0 %
2	138.82 m	143.13 m	7.60 m	18.24	50.0 %
3	138.82 m	133.91 m	9.22 m	22.13	50.0 %
4	146.42 m	133.91 m	7.60 m	18.24	50.0 %
Floor:				70.1	20.0 %
Ceiling:				70.1	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		168.1 m³			

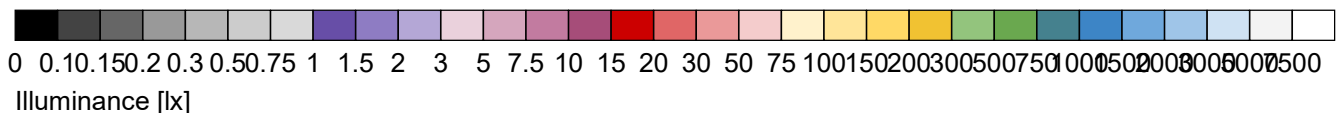
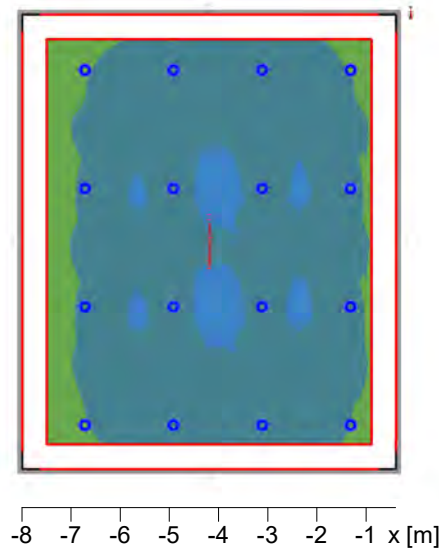
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



4 Dry valet

4.2 Summary, Dry valet

4.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	84800.00 lm
Luminaire luminous flux	76312.42 lm
Total power	587.2 W
Total power per area (70.05 m²)	8.38 W/m² (0.94 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	894 lx	cylindrical
E_{min}	609 lx	287 lx
$E_{min}/\bar{E}_m (U_o)$	0.68	188 lx
$E_{min}/E_{max} (U_d)$	0.58	0.66
E_z/E_h		0.30
Position	0.00 m	0.45 m
RUG (6.4H 7.7H)	<=21.7	
Luminaire : (Easy General Lighting ø212mm, LED, QF74-39, 36.7 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	154 lx	0.73
M 1.1 (Wall)	308 lx	0.35
M 1.2 (Wall)	281 lx	0.32
M 1.3 (Wall)	224 lx	0.41
M 1.4 (Wall)	360 lx	0.28

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



4 Dry valet

4.2 Summary, Dry valet

4.2.1 Result overview, Evaluation area 1

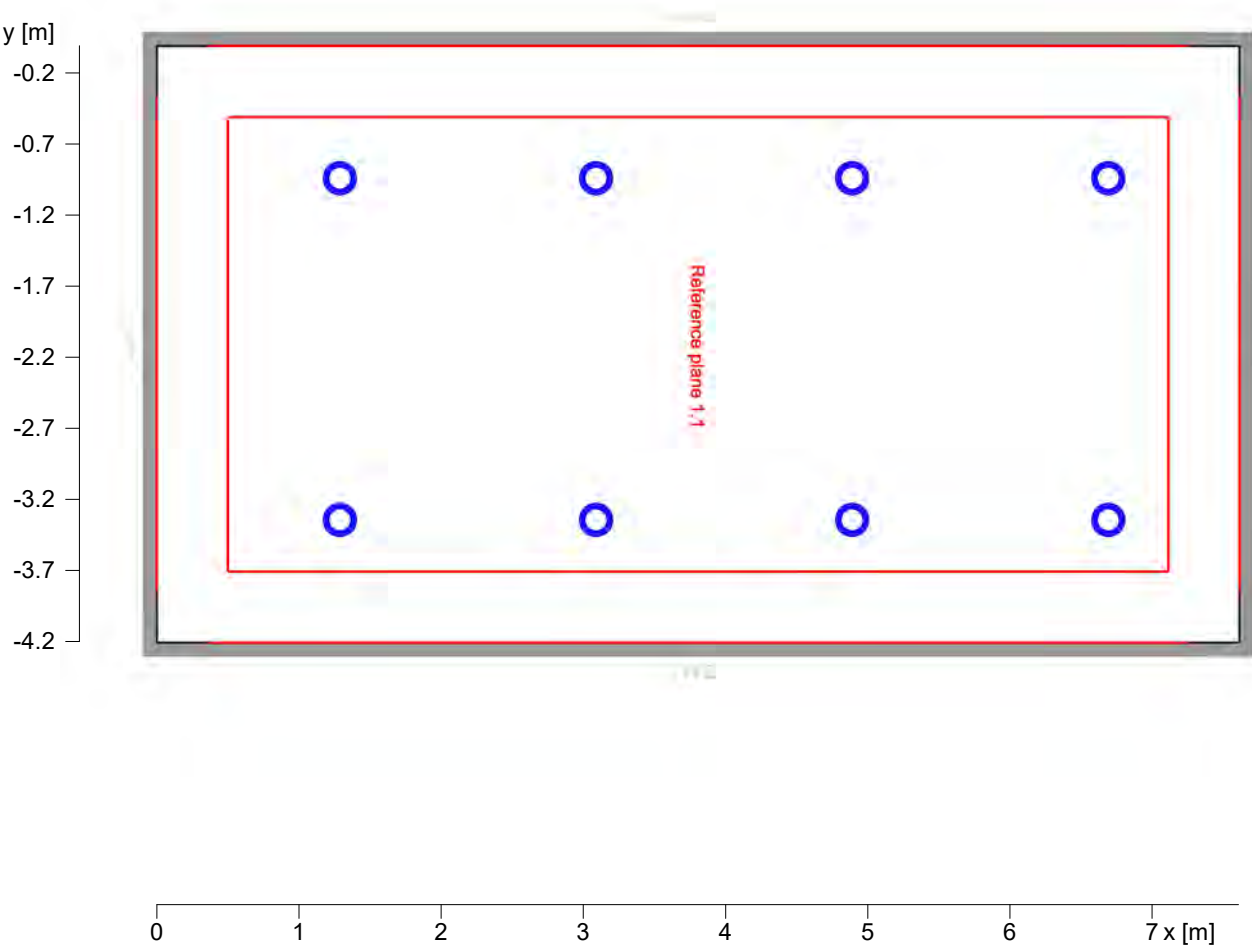
Type No. Make

8	16 x	iGuzzini	
		Order No.	: QF74-39
		Luminaire name	: Easy General Lighting ø212mm
		Equipment	: 1 x LED 36.7 W / 5300 lm

5 Room 19

5.1 Description, Room 19

5.1.1 Floor plan

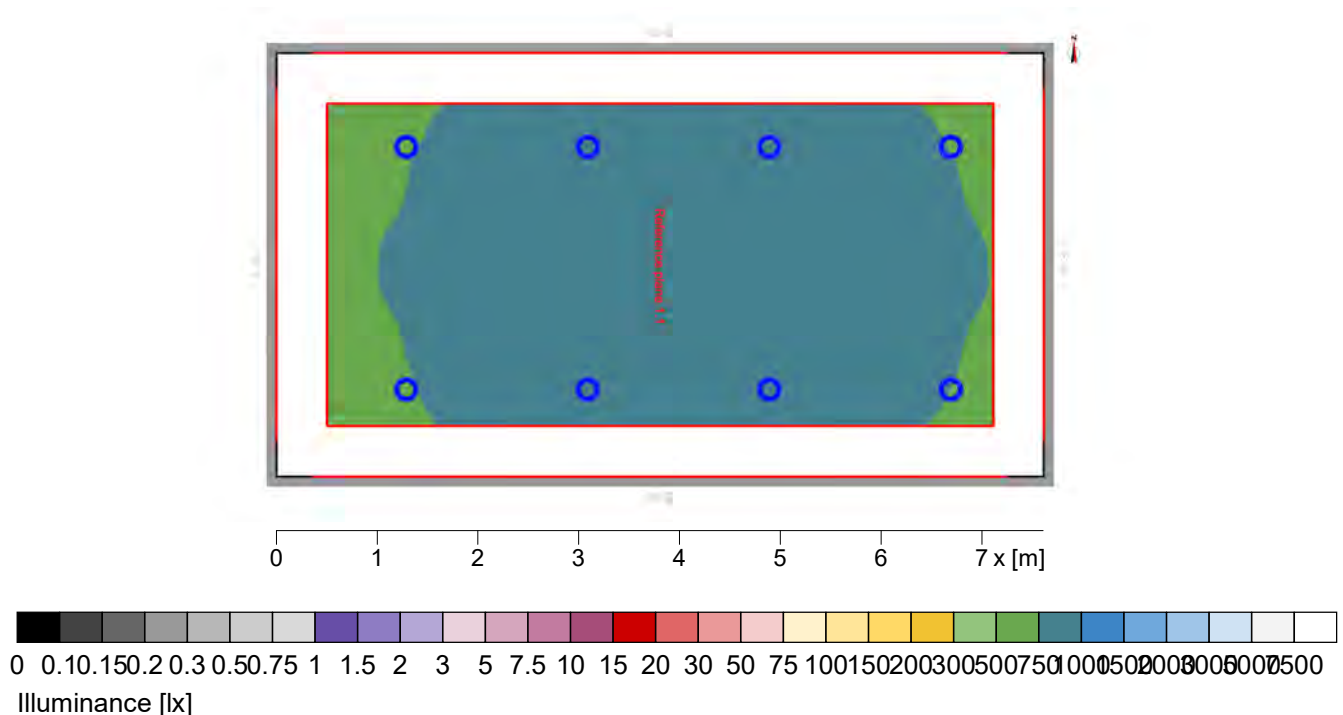


Wall	x	y	Length	Area[m²]	Reflectance
1	138.82 m	143.24 m	4.19 m	10.06	50.0 %
2	146.43 m	143.24 m	7.61 m	18.26	50.0 %
3	146.43 m	147.43 m	4.19 m	10.06	50.0 %
4	138.82 m	147.43 m	7.61 m	18.26	50.0 %
Floor:				31.9	20.0 %
Ceiling:				31.9	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume				76.5 m³	

5 Room 19

5.2 Summary, Room 19

5.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	42400.00 lm
Luminaire luminous flux	38156.21 lm
Total power	293.6 W
Total power per area (31.88 m²)	9.21 W/m² (1.06 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
E_{min}	872 lx	284 lx
$E_{min}/\bar{E}_m (U_o)$	580 lx	190 lx
$E_{min}/E_{max} (U_d)$	0.67	0.67
E_z/E_h	0.58	0.30
Position	0.00 m	0.45 m
RUG (3.5H 6.4H)	<=21.9	
Luminaire : (Easy General Lighting ø212mm, LED, QF74-39, 36.7 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	153 lx	0.72
M 1.1 (Wall)	221 lx	0.44
M 1.2 (Wall)	370 lx	0.25
M 1.3 (Wall)	324 lx	0.39
M 1.4 (Wall)	348 lx	0.27

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



5 Room 19

5.2 Summary, Room 19

5.2.1 Result overview, Evaluation area 1

Type No. Make

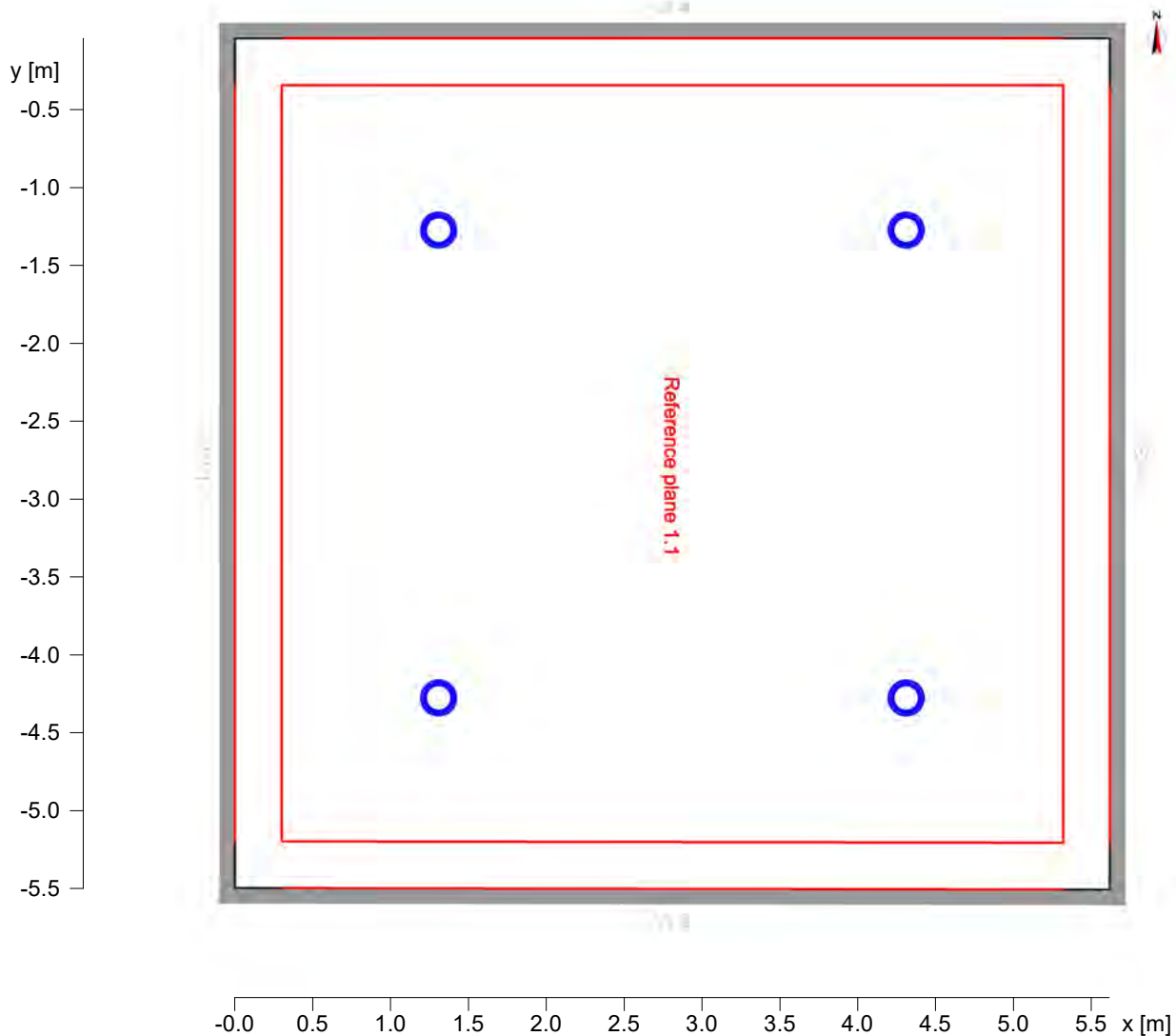
8	8 x	iGuzzini	
		Order No.	: QF74-39
		Luminaire name	: Easy General Lighting ø212mm
		Equipment	: 1 x LED 36.7 W / 5300 lm



6 Room 38

6.1 Description, Room 38

6.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	159.57 m	126.06 m	5.45 m	13.07	50.0 %
2	165.18 m	126.05 m	5.61 m	13.47	50.0 %
3	165.18 m	131.51 m	5.46 m	13.10	50.0 %
4	159.57 m	131.51 m	5.61 m	13.47	50.0 %
Floor:				30.6	20.0 %
Ceiling:				30.6	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume				73.5 m³	

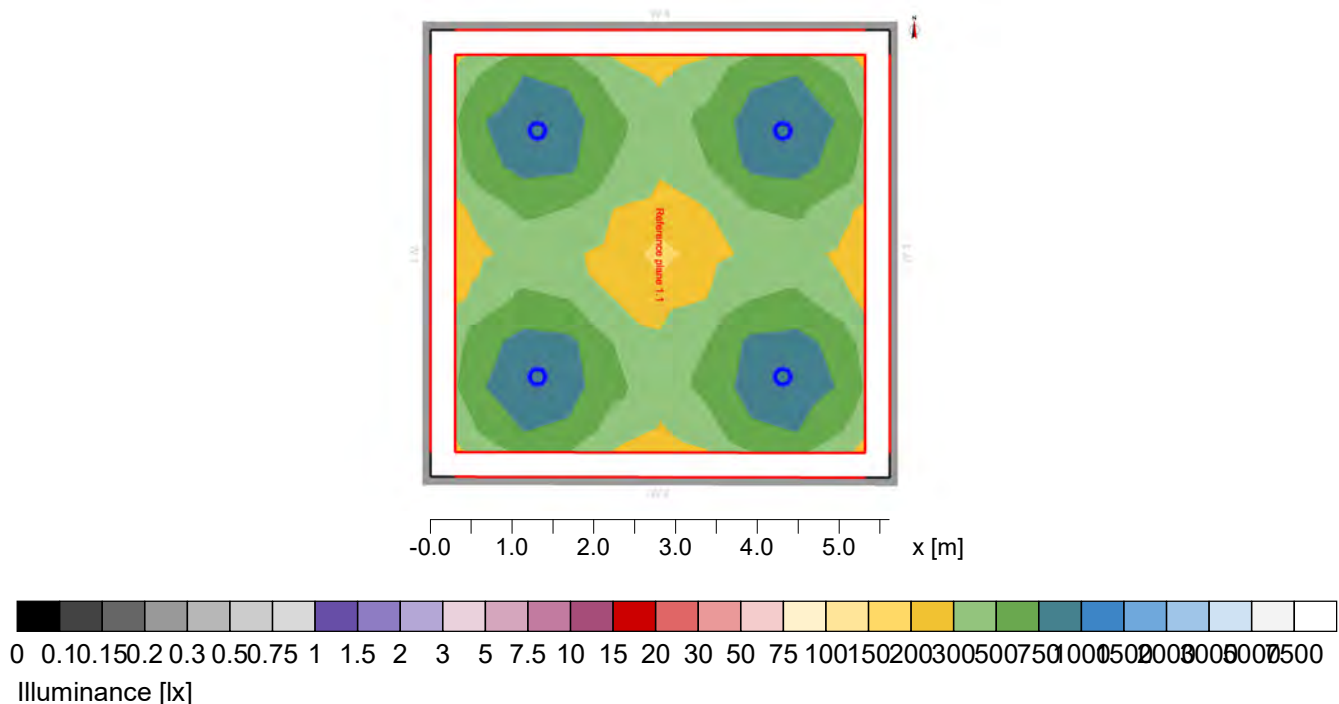
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



6 Room 38

6.2 Summary, Room 38

6.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (30.62 m²)

21200.00 lm
 19078.11 lm
 146.8 W
 4.79 W/m² (0.87 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	548 lx	169 lx
E_{min}	179 lx	78 lx
$E_{min}/\bar{E}_m (U_o)$	0.33	0.46
$E_{min}/E_{max} (U_d)$	0.20	
E_z/E_h		0.28
Position	0.75 m	1.20 m
RUG (4.7H 4.6H)	<=22.0	
Luminaire : (Easy General Lighting ø212mm, LED, QF74-39, 36.7 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	74 lx	0.80
M 1.1 (Wall)	145 lx	0.36
M 1.2 (Wall)	155 lx	0.33
M 1.3 (Wall)	145 lx	0.36
M 1.4 (Wall)	154 lx	0.33

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



6 Room 38

6.2 Summary, Room 38

6.2.1 Result overview, Evaluation area 1

Type No. Make

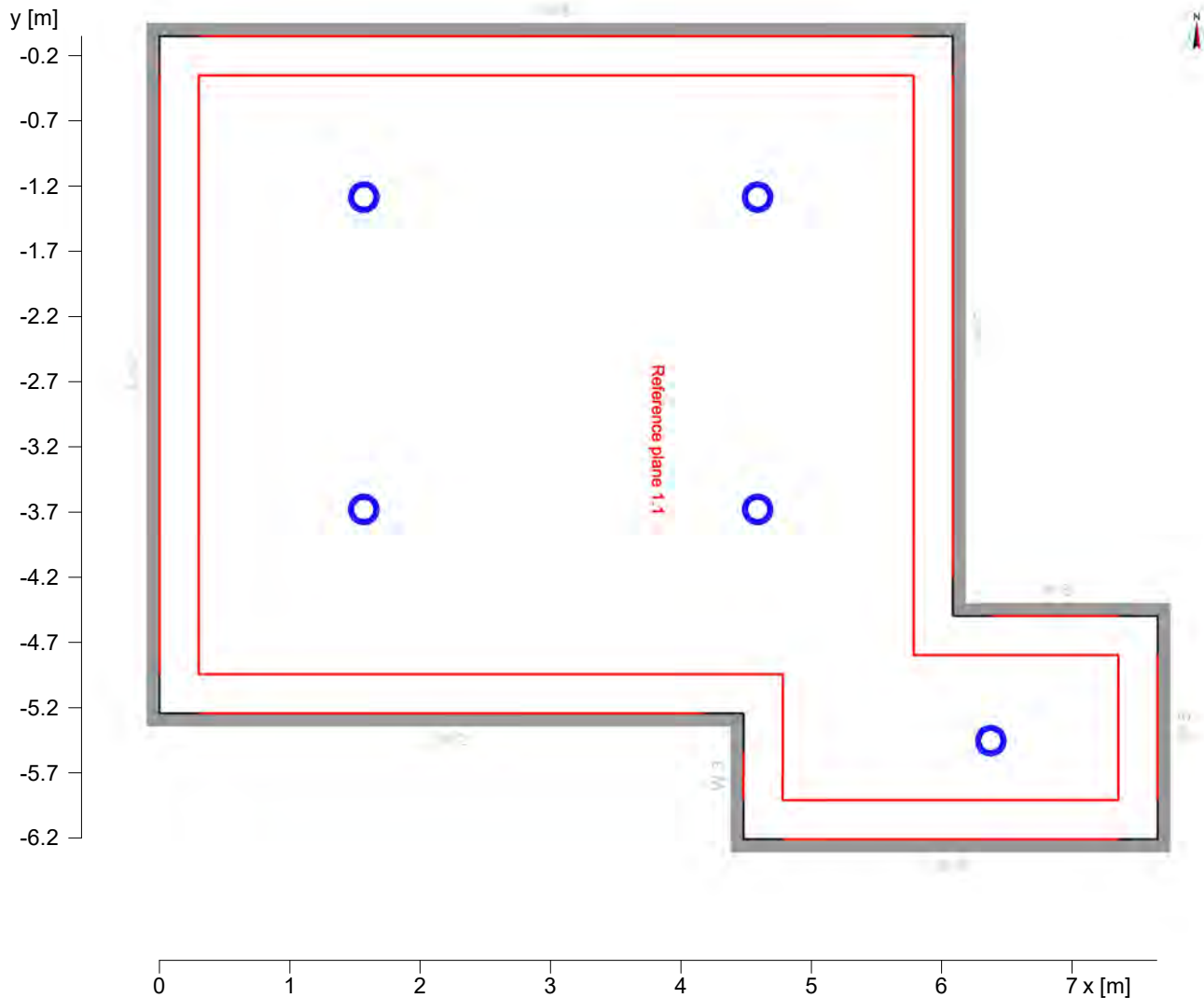
8	4 x	iGuzzini	
		Order No.	: QF74-39
		Luminaire name	: Easy General Lighting ø212mm
		Equipment	: 1 x LED 36.7 W / 5300 lm



7 Room 39

7.1 Description, Room 39

7.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	159.57 m	120.76 m	5.19 m	12.45	50.0 %
2	164.05 m	120.76 m	4.48 m	10.74	50.0 %
3	164.04 m	119.80 m	0.96 m	2.31	50.0 %
4	167.22 m	119.80 m	3.17 m	7.62	50.0 %
5	167.22 m	121.51 m	1.71 m	4.10	50.0 %
6	165.65 m	121.51 m	1.57 m	3.77	50.0 %
7	165.65 m	125.95 m	4.44 m	10.66	50.0 %
8	159.57 m	125.95 m	6.08 m	14.59	50.0 %
Floor:				35.8	20.0 %
Ceiling:				35.8	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume		85.8 m³			

iGuzzini

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



7 Room 39

7.2 Summary, Room 39

7.2.1 Result overview, Evaluation area 1

M 1.15 (Wall)	195 lx	0.34
M 1.16 (Wall)	249 lx	0.27
M 1.17 (Wall)	134 lx	0.39
M 1.18 (Wall)	150 lx	0.32

Type No. Make

8		iGuzzini	
		Order No.	: QF74-39
		Luminaire name	: Easy General Lighting ø212mm
		Equipment	: 1 x LED 36.7 W / 5300 lm

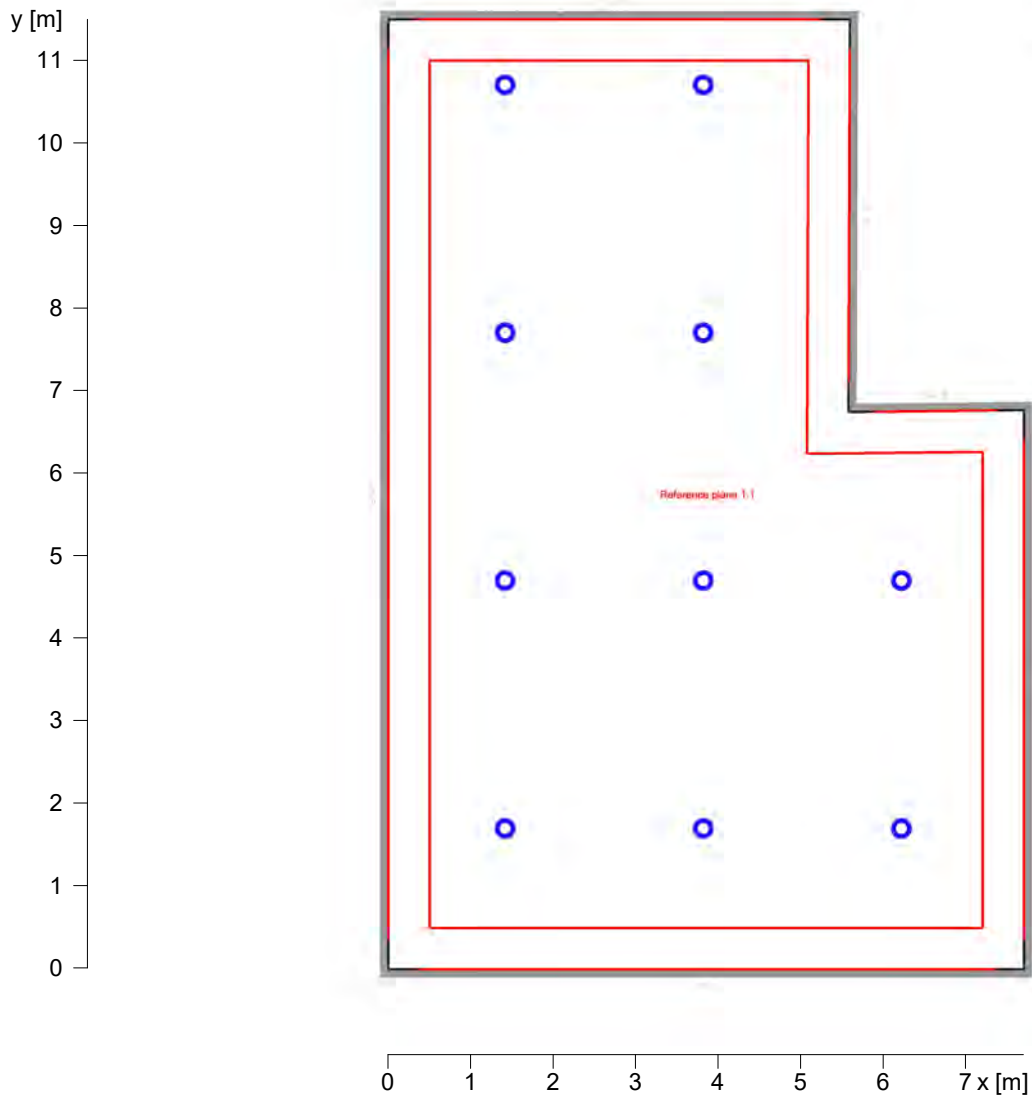
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



8 Room 40

8.1 Description, Room 40

8.1.1 Floor plan

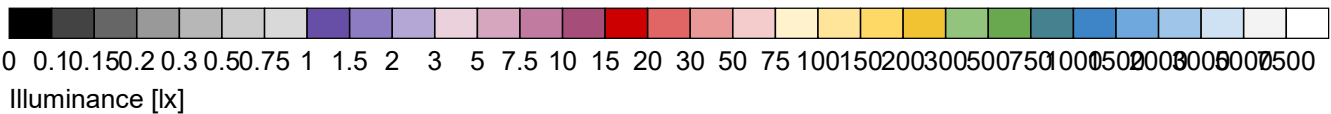
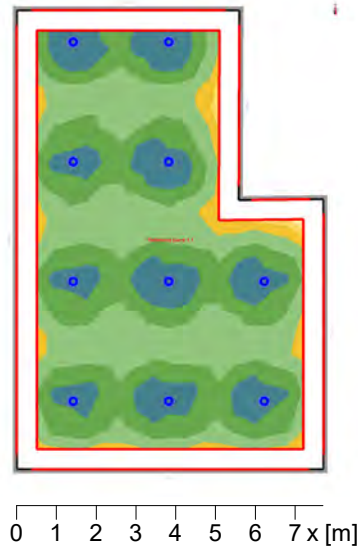


Wall	x	y	Length	Area[m²]	Reflectance
1	237.27 m	120.01 m	7.70 m	18.48	50.0 %
2	237.27 m	126.78 m	6.77 m	16.25	50.0 %
3	235.14 m	126.75 m	2.13 m	5.10	50.0 %
4	235.16 m	131.51 m	4.75 m	11.41	50.0 %
5	229.57 m	131.51 m	5.59 m	13.42	50.0 %
6	229.57 m	120.01 m	11.50 m	27.60	50.0 %
Floor:				78.5	20.0 %
Ceiling:				78.5	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume		188.4 m³			

8 Room 40

8.2 Summary, Room 40

8.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (78.50 m²)

53000.00 lm
 47695.27 lm
 367.0 W
 4.68 W/m² (0.80 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	586 lx	181 lx
E_{min}	320 lx	103 lx
$E_{min}/\bar{E}_m (U_o)$	0.55	0.57
$E_{min}/E_{max} (U_d)$	0.35	
E_z/E_h		0.28
Position	0.75 m	1.20 m
RUG (9.6H 6.4H)	<=21.7	
Luminaire : (Easy General Lighting ø212mm, LED, QF74-39, 36.7 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.7 (Ceiling)	85 lx	0.69
M 1.1 (Wall)	109 lx	0.45
M 1.2 (Wall)	113 lx	0.41
M 1.3 (Wall)	75 lx	0.58
M 1.4 (Wall)	111 lx	0.58

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



8 Room 40

8.2 Summary, Room 40

8.2.1 Result overview, Evaluation area 1

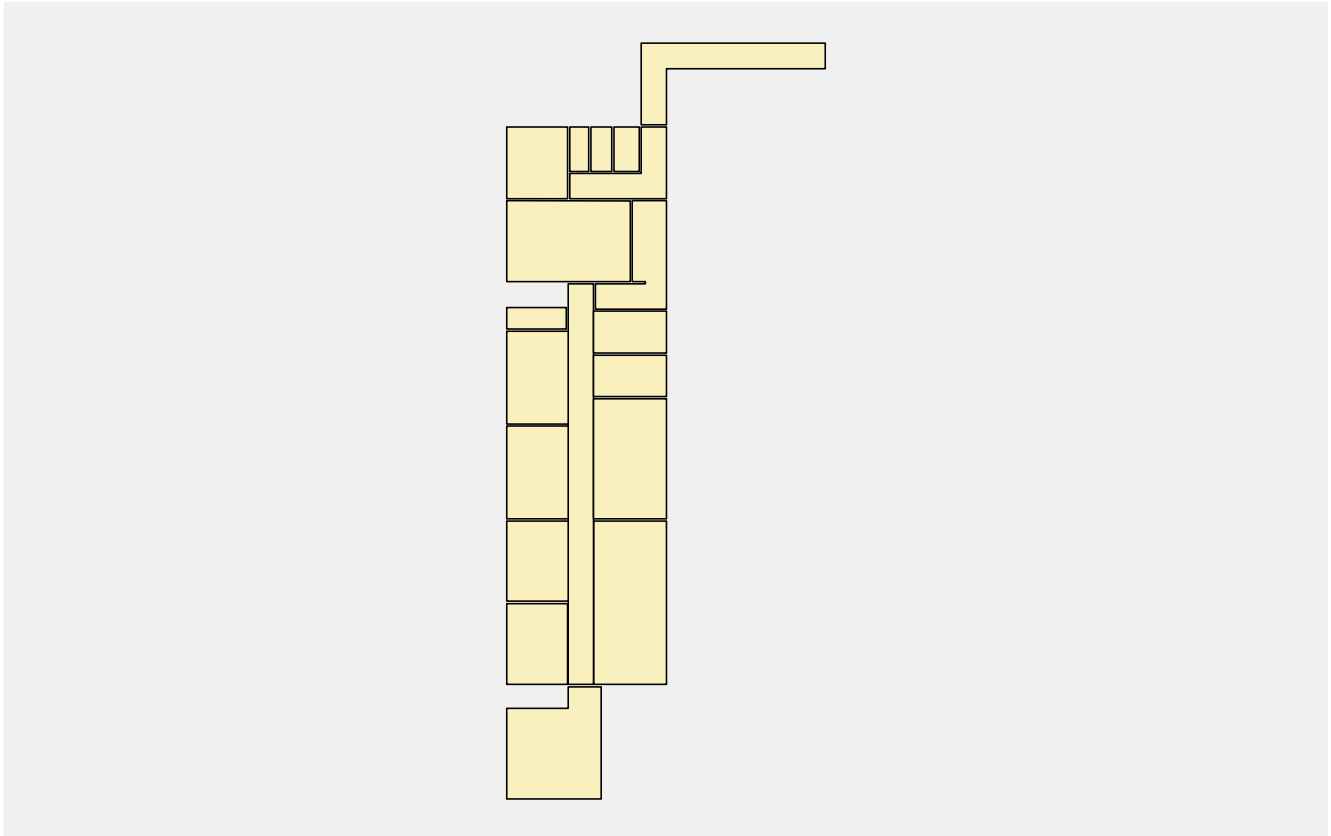
M 1.5 (Wall)	266 lx	0.21
M 1.6 (Wall)	135 lx	0.36

Type No.\Make

8 10 x 	iGuzzini	
	Order No.	: QF74-39
	Luminaire name	: Easy General Lighting ø212mm
	Equipment	: 1 x LED 36.7 W / 5300 lm

Summary, First Floor

.1 Floor overview



Number of rooms	19	
Total area	227.0 m ²	Calculated
Total volume	553.1 m ³	
Number of luminaires	87	
Total luminous flux	205590 lm	
Total power	1548 W	
Total power per area	6.82 W/m ²	

Parts list

Type No.\Make

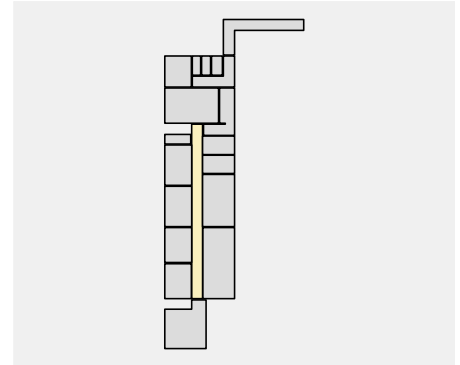
5	51 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm
11	36 x	Order No.	: LSEVO-AAH6HS
		Luminaire name	: Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
		Equipment	: 1 x LED / 17W 19.2 W / 2240 lm

Summary, First Floor

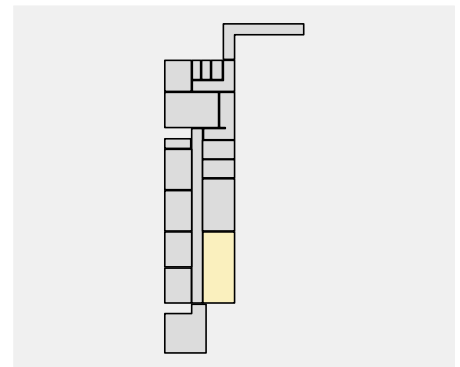
.1 Floor overview

Rooms

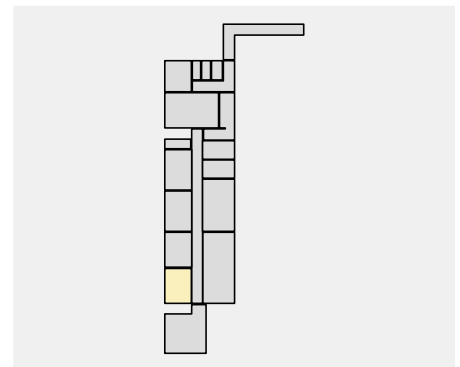
Circulation 1	7 x Luminaires
Floor area	22.9 m ²
Wall area (without windows)	97.3 m ²
Window area	0.0 m ²
Volume	55.0 m ³
Total luminous flux	15680 lm
Total power	134.4 W
Total power per area (23 m ²)	5.87 W/m ²
$\bar{E}_m$	324 lx
E_{min}	141 lx
$E_{min}/\bar{E}_m (U_o)$	0.44
RUG	<=18.2



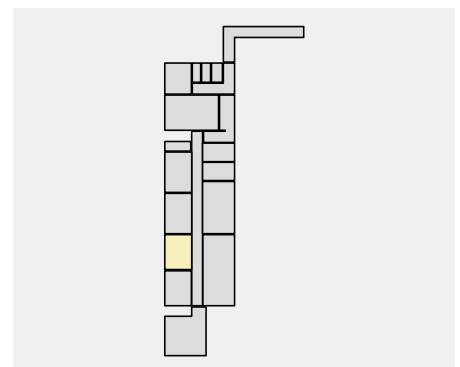
Office 1	8 x Luminaires
Floor area	26.8 m ²
Wall area (without windows)	53.9 m ²
Window area	0.0 m ²
Volume	64.4 m ³
Total luminous flux	19600 lm
Total power	134.4 W
Total power per area (27 m ²)	5.01 W/m ²
$\bar{E}_m$	588 lx
E_{min}	308 lx
$E_{min}/\bar{E}_m (U_o)$	0.52
RUG	<=18.4



Office 2	4 x Luminaires
Floor area	11.1 m ²
Wall area (without windows)	32.3 m ²
Window area	0.0 m ²
Volume	26.7 m ³
Total luminous flux	9800 lm
Total power	67.2 W
Total power per area (11 m ²)	6.04 W/m ²
$\bar{E}_m$	751 lx
E_{min}	480 lx
$E_{min}/\bar{E}_m (U_o)$	0.64
RUG	<=18.0



Office 3	4 x Luminaires
Floor area	11.2 m ²
Wall area (without windows)	32.4 m ²
Window area	0.0 m ²
Volume	26.8 m ³
Total luminous flux	9800 lm
Total power	67.2 W
Total power per area (11 m ²)	6.02 W/m ²
$\bar{E}_m$	743 lx
E_{min}	482 lx
$E_{min}/\bar{E}_m (U_o)$	0.65
RUG	<=18.0



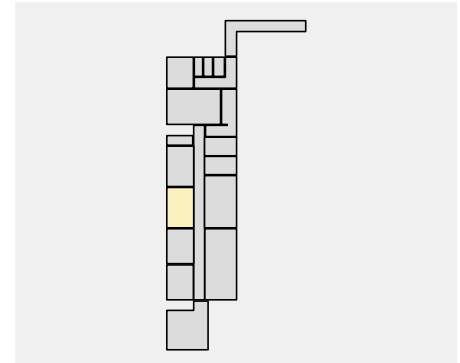
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



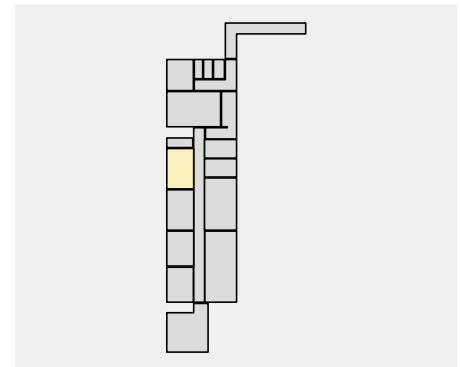
Summary, First Floor

.1 Floor overview

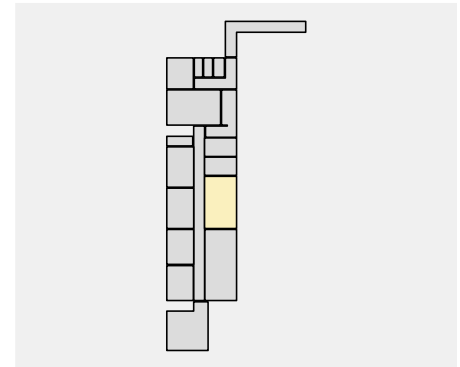
Office 4	6 x Luminaires
Floor area	12.9 m ²
Wall area (without windows)	35.3 m ²
Window area	0.0 m ²
Volume	31.0 m ³
Total luminous flux	14700 lm
Total power	100.8 W
Total power per area (13 m ²)	7.79 W/m ²
$\bar{E}_m$	773 lx
E_{min}	510 lx
$E_{min}/\bar{E}_m (U_o)$	0.66
RUG	≤ 18.1



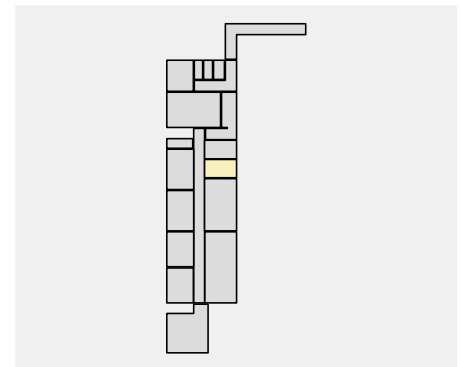
Office 5	6 x Luminaires
Floor area	12.9 m ²
Wall area (without windows)	35.3 m ²
Window area	0.0 m ²
Volume	31.0 m ³
Total luminous flux	14700 lm
Total power	100.8 W
Total power per area (13 m ²)	7.79 W/m ²
$\bar{E}_m$	772 lx
E_{min}	504 lx
$E_{min}/\bar{E}_m (U_o)$	0.65
RUG	≤ 18.1



Office 6	6 x Luminaires
Floor area	19.9 m ²
Wall area (without windows)	44.1 m ²
Window area	0.0 m ²
Volume	47.7 m ³
Total luminous flux	14700 lm
Total power	100.8 W
Total power per area (20 m ²)	5.07 W/m ²
$\bar{E}_m$	592 lx
E_{min}	395 lx
$E_{min}/\bar{E}_m (U_o)$	0.67
RUG	≤ 18.2



Office 7	4 x Luminaires
Floor area	6.9 m ²
Wall area (without windows)	26.1 m ²
Window area	0.0 m ²
Volume	16.4 m ³
Total luminous flux	9800 lm
Total power	67.2 W
Total power per area (7 m ²)	9.81 W/m ²
$\bar{E}_m$	797 lx
E_{min}	502 lx
$E_{min}/\bar{E}_m (U_o)$	0.63
RUG	≤ 17.9



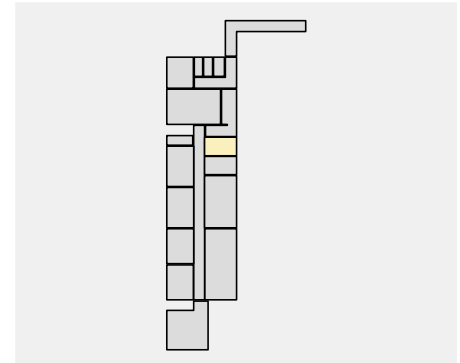
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



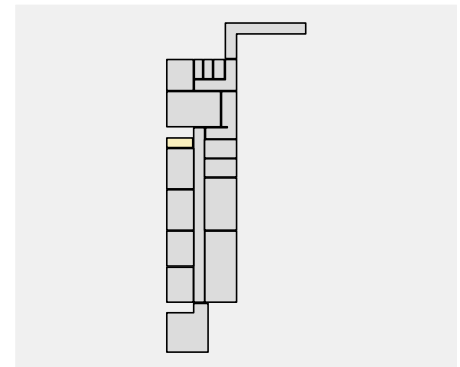
Summary, First Floor

.1 Floor overview

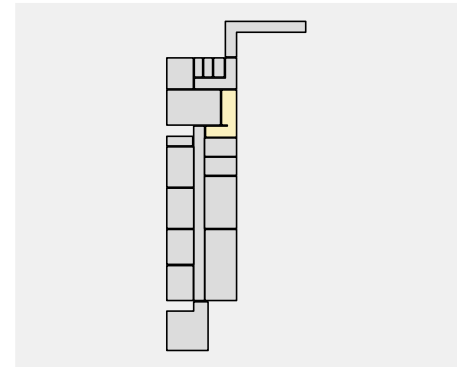
Office 8	4 x Luminaires
Floor area	6.9 m ²
Wall area (without windows)	26.3 m ²
Window area	0.0 m ²
Volume	16.7 m ³
Total luminous flux	9800 lm
Total power	67.2 W
Total power per area (7 m ²)	9.67 W/m ²
$\bar{E}_m$	792 lx
E_{min}	475 lx
$E_{min}/\bar{E}_m (U_o)$	0.60
RUG	≤ 17.9



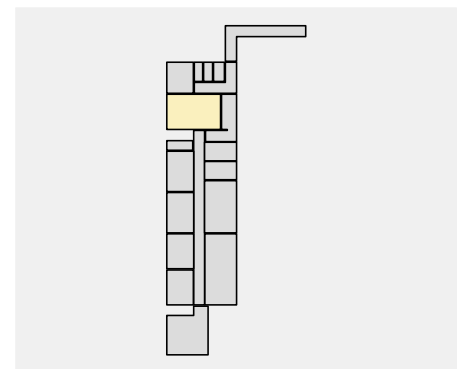
WC 1	1 x Luminaires
Floor area	2.9 m ²
Wall area (without windows)	18.5 m ²
Window area	0.0 m ²
Volume	7.0 m ³
Total luminous flux	2240 lm
Total power	19.2 W
Total power per area (3 m ²)	6.62 W/m ²
$\bar{E}_m$	344 lx
E_{min}	170 lx
$E_{min}/\bar{E}_m (U_o)$	0.49
RUG	10.0



Locker room	4 x Luminaires
Floor area	10.4 m ²
Wall area (without windows)	43.9 m ²
Window area	0.0 m ²
Volume	25.0 m ³
Total luminous flux	8960 lm
Total power	76.8 W
Total power per area (10 m ²)	7.38 W/m ²
$\bar{E}_m$	447 lx
E_{min}	109 lx
$E_{min}/\bar{E}_m (U_o)$	0.24
RUG	---



Open office area	9 x Luminaires
Floor area	22.6 m ²
Wall area (without windows)	46.7 m ²
Window area	0.0 m ²
Volume	54.3 m ³
Total luminous flux	22050 lm
Total power	151.2 W
Total power per area (23 m ²)	6.68 W/m ²
$\bar{E}_m$	652 lx
E_{min}	277 lx
$E_{min}/\bar{E}_m (U_o)$	0.42
RUG	≤ 18.4



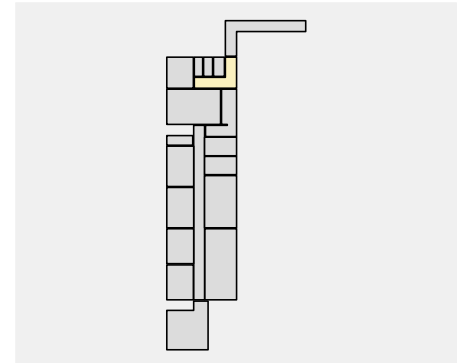
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



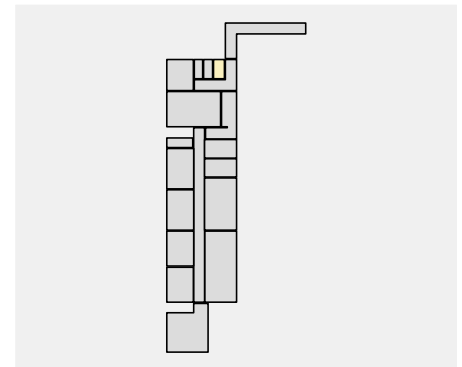
Summary, First Floor

.1 Floor overview

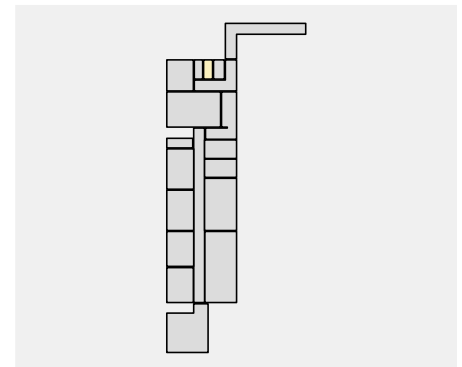
Circulation 2	3 x Luminaires
Floor area	8.2 m ²
Wall area (without windows)	38.5 m ²
Window area	0.0 m ²
Volume	19.6 m ³
Total luminous flux	6720 lm
Total power	57.6 W
Total power per area (8 m ²)	7.05 W/m ²
$\bar{E}_m$	498 lx
E_{min}	26 lx
$E_{min}/\bar{E}_m (U_o)$	0.05
RUG	---



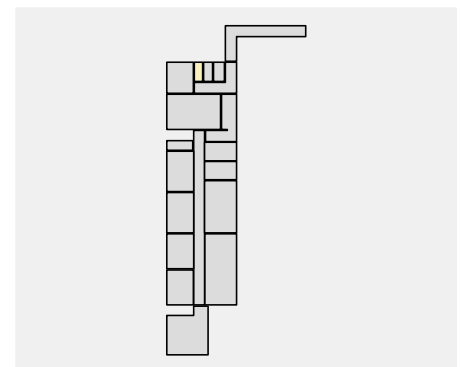
WC 2	1 x Luminaires
Floor area	2.5 m ²
Wall area (without windows)	15.9 m ²
Window area	0.0 m ²
Volume	6.1 m ³
Total luminous flux	2240 lm
Total power	19.2 W
Total power per area (3 m ²)	7.57 W/m ²
$\bar{E}_m$	397 lx
E_{min}	311 lx
$E_{min}/\bar{E}_m (U_o)$	0.78
RUG	10.0



WC 3	1 x Luminaires
Floor area	2.1 m ²
Wall area (without windows)	15.0 m ²
Window area	0.0 m ²
Volume	5.1 m ³
Total luminous flux	2240 lm
Total power	19.2 W
Total power per area (2 m ²)	9.08 W/m ²
$\bar{E}_m$	408 lx
E_{min}	306 lx
$E_{min}/\bar{E}_m (U_o)$	0.75
RUG	10.0



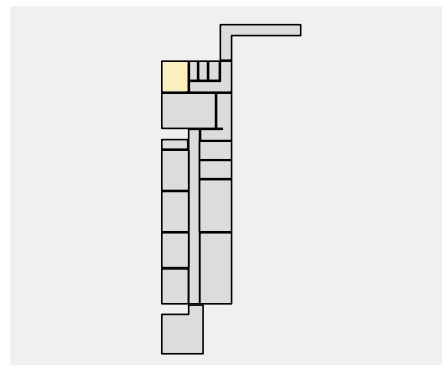
Cleaners	1 x Luminaires
Floor area	1.9 m ²
Wall area (without windows)	14.5 m ²
Window area	0.0 m ²
Volume	4.6 m ³
Total luminous flux	2240 lm
Total power	19.2 W
Total power per area (2 m ²)	10.08 W/m ²
$\bar{E}_m$	414 lx
E_{min}	309 lx
$E_{min}/\bar{E}_m (U_o)$	0.75
RUG	10.0



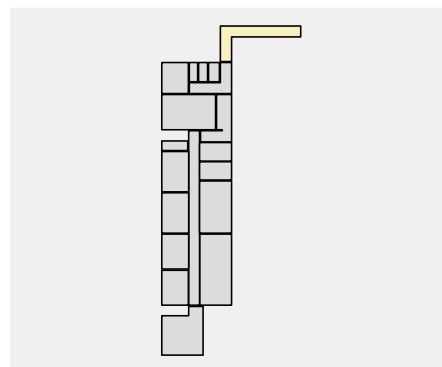
Summary, First Floor

.1 Floor overview

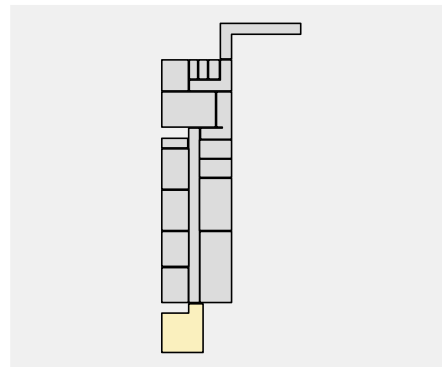
WC	5 x Luminaires
Floor area	9.9 m ²
Wall area (without windows)	30.3 m ²
Window area	0.0 m ²
Volume	23.8 m ³
Total luminous flux	11200 lm
Total power	96 W
Total power per area (10 m ²)	9.69 W/m ²
$\bar{E}_m$	521 lx
E_{min}	338 lx
$E_{min}/\bar{E}_m (U_o)$	0.65
RUG	<=18.3



Stairs/ Circulation	6 x Luminaires
Floor area	13.8 m ²
Wall area (without windows)	60.7 m ²
Window area	0.0 m ²
Volume	33.2 m ³
Total luminous flux	13440 lm
Total power	115.2 W
Total power per area (14 m ²)	8.33 W/m ²
$\bar{E}_m$	483 lx
E_{min}	324 lx
$E_{min}/\bar{E}_m (U_o)$	0.67
RUG	---



Stairs	7 x Luminaires
Floor area	21.0 m ²
Wall area (without windows)	55.0 m ²
Window area	0.0 m ²
Volume	58.9 m ³
Total luminous flux	15680 lm
Total power	134.4 W
Total power per area (21 m ²)	6.39 W/m ²
$\bar{E}_m$	428 lx
E_{min}	211 lx
$E_{min}/\bar{E}_m (U_o)$	0.49
RUG	<=18.3

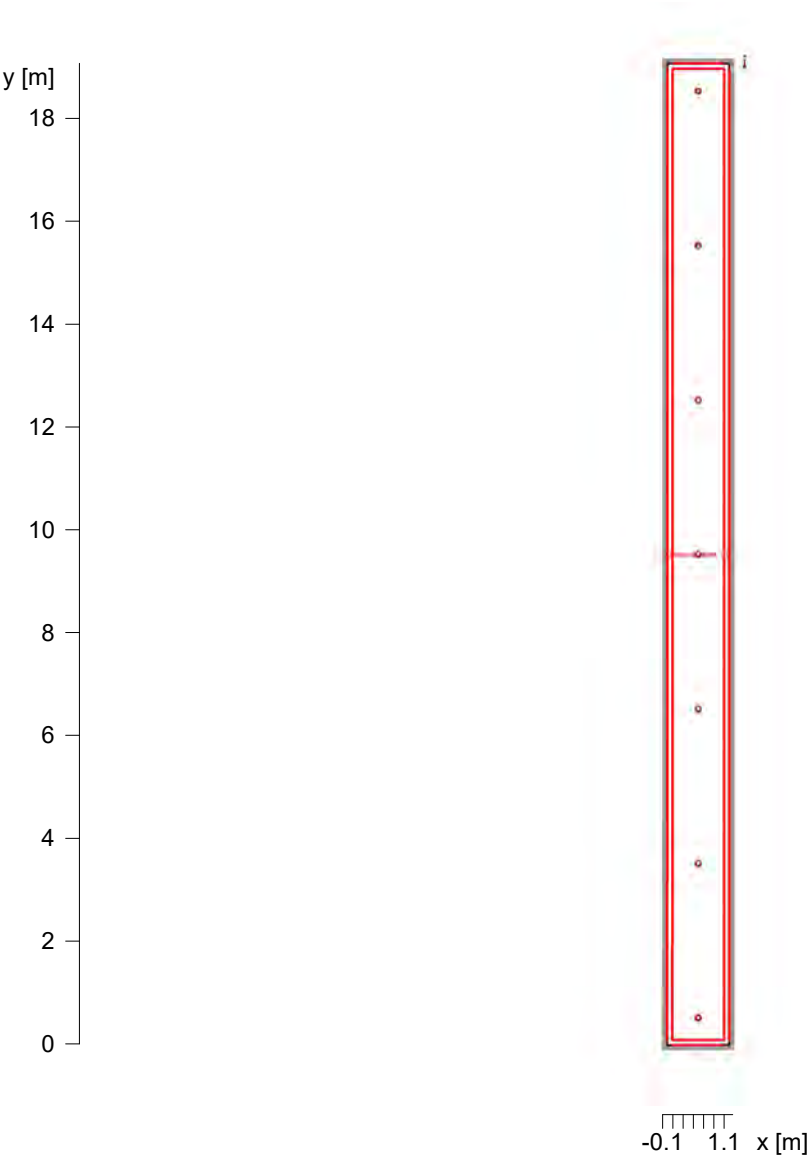




1 Circulation 1

1.1 Description, Circulation 1

1.1.1 Floor plan



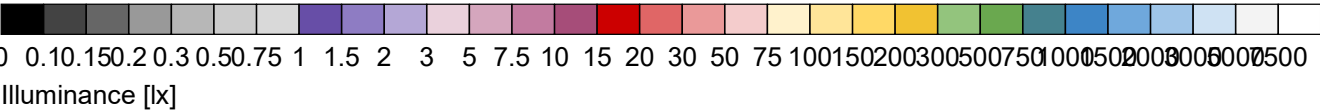
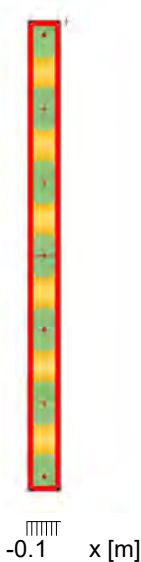
Wall	x	y	Length	Area[m²]	Reflectance
1	212.95 m	116.91 m	1.21 m	2.89	50.0 %
2	212.94 m	135.98 m	19.06 m	45.75	50.0 %
3	211.75 m	135.98 m	1.20 m	2.87	50.0 %
4	211.74 m	116.91 m	19.07 m	45.76	50.0 %
Floor:				22.9	20.0 %
Ceiling:				22.9	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume					55.0 m³



1 Circulation 1

1.2 Summary, Circulation 1

1.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	15680.00 lm
Luminaire luminous flux	14735.32 lm
Total power	134.4 W
Total power per area (22.91 m²)	5.87 W/m² (1.81 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
E_{min}	324 lx	92 lx
$E_{min}/\bar{E}_m (U_o)$	141 lx	40 lx
$E_{min}/E_{max} (U_d)$	0.44	0.44
E_z/E_h	0.29	0.24
Position	0.00 m	0.45 m
RUG (1.1H 12.0H)	≤ 18.2	

Luminaire :
(Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standard no cable - Black - Matte White - 19.2W 2110lm)
Hints:
- At least one of the room dimensions has been limited to 12H.

Major surfaces

	$\bar{E}_m$	U_o
M 1.9 (Ceiling)	41 lx	0.80
M 1.5 (Wall)	203 lx	0.15
M 1.6 (Wall)	104 lx	0.26

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



1 Circulation 1

1.2 Summary, Circulation 1

1.2.1 Result overview, Evaluation area 1

M 1.7 (Wall)	203 lx	0.16
M 1.8 (Wall)	104 lx	0.27

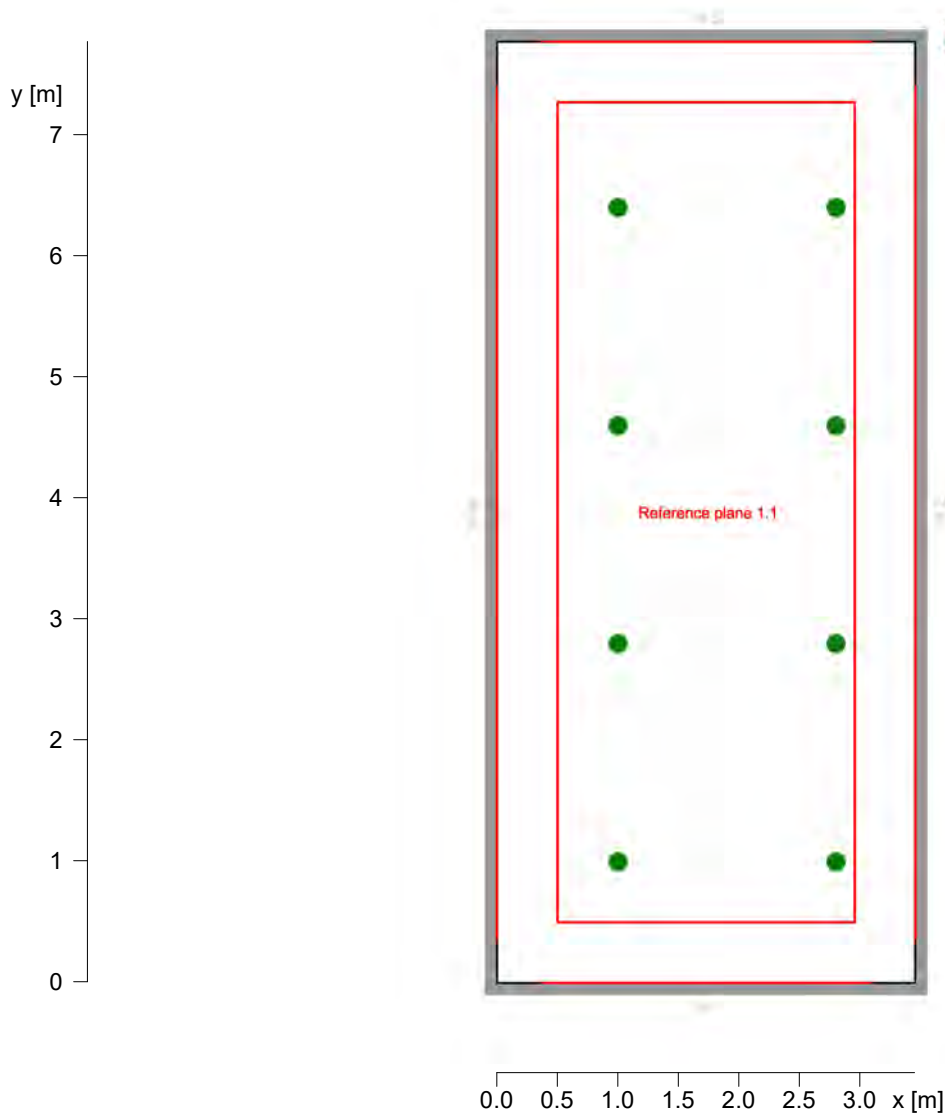
Type No.\Make

11	7 x		iGuzzini
			Order No. : LSEVO-AAH6HS
			Luminaire name : Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
			Equipment : 1 x LED / 17W 19.2 W / 2240 lm

2 Office 1

2.1 Description, Office 1

2.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	216.42 m	116.91 m	3.45 m	8.29	50.0 %
2	216.42 m	124.68 m	7.77 m	18.65	50.0 %
3	212.97 m	124.68 m	3.45 m	8.29	50.0 %
4	212.97 m	116.91 m	7.77 m	18.65	50.0 %
Floor:				26.8	20.0 %
Ceiling:				26.8	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume				64.4 m³	

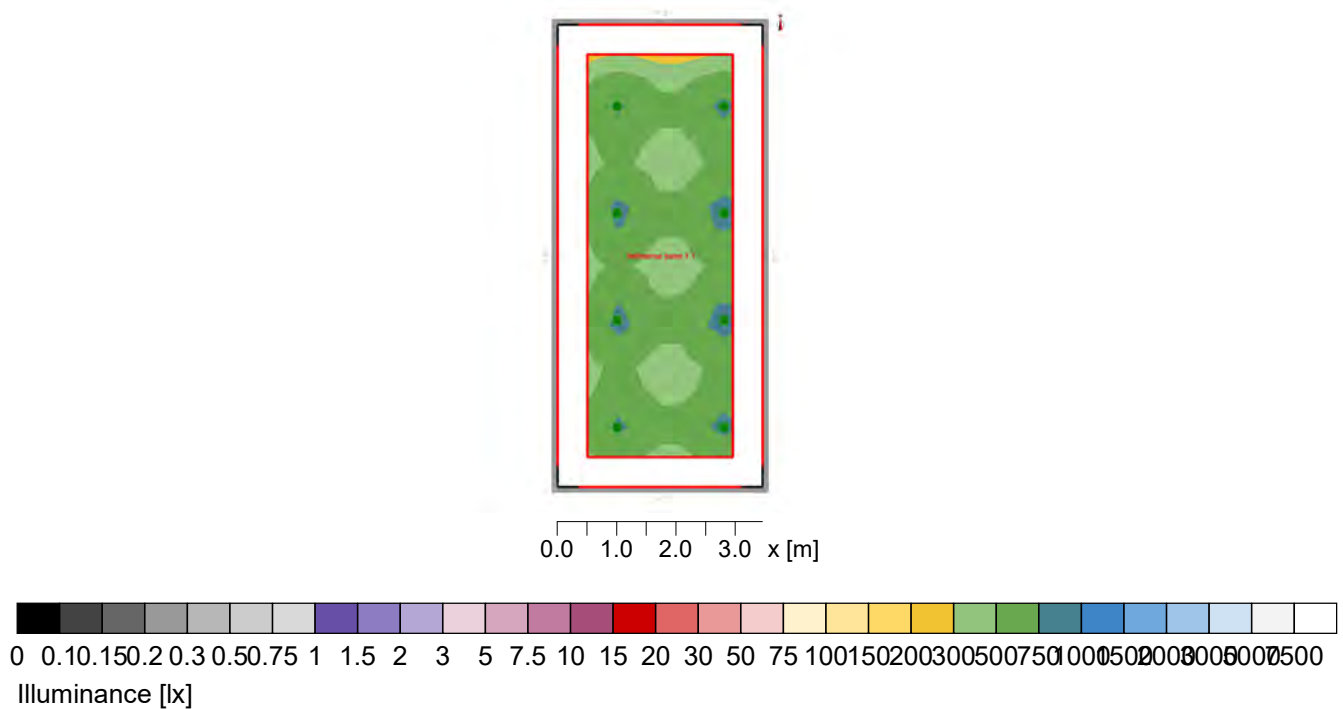
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



2 Office 1

2.2 Summary, Office 1

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (26.84 m²)

19600.00 lm
 17832.70 lm
 134.4 W
 5.01 W/m² (0.85 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	588 lx	cylindrical
E_{min}	308 lx	154 lx
$E_{min}/\bar{E}_m (U_o)$	0.52	79 lx
$E_{min}/E_{max} (U_d)$	0.39	0.51
E_z/E_h		0.23
Position	0.75 m	1.20 m
RUG (2.9H 6.5H)	<=18.4	
Luminaire : (Easy Space - GL - ø153mm, LED, QV86-D8, 16.8 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	79 lx	0.69
M 1.1 (Wall)	138 lx	0.56
M 1.2 (Wall)	188 lx	0.31
M 1.3 (Wall)	94 lx	0.68
M 1.4 (Wall)	135 lx	0.43

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



2 Office 1

2.2 Summary, Office 1

2.2.1 Result overview, Evaluation area 1

Type No. Make

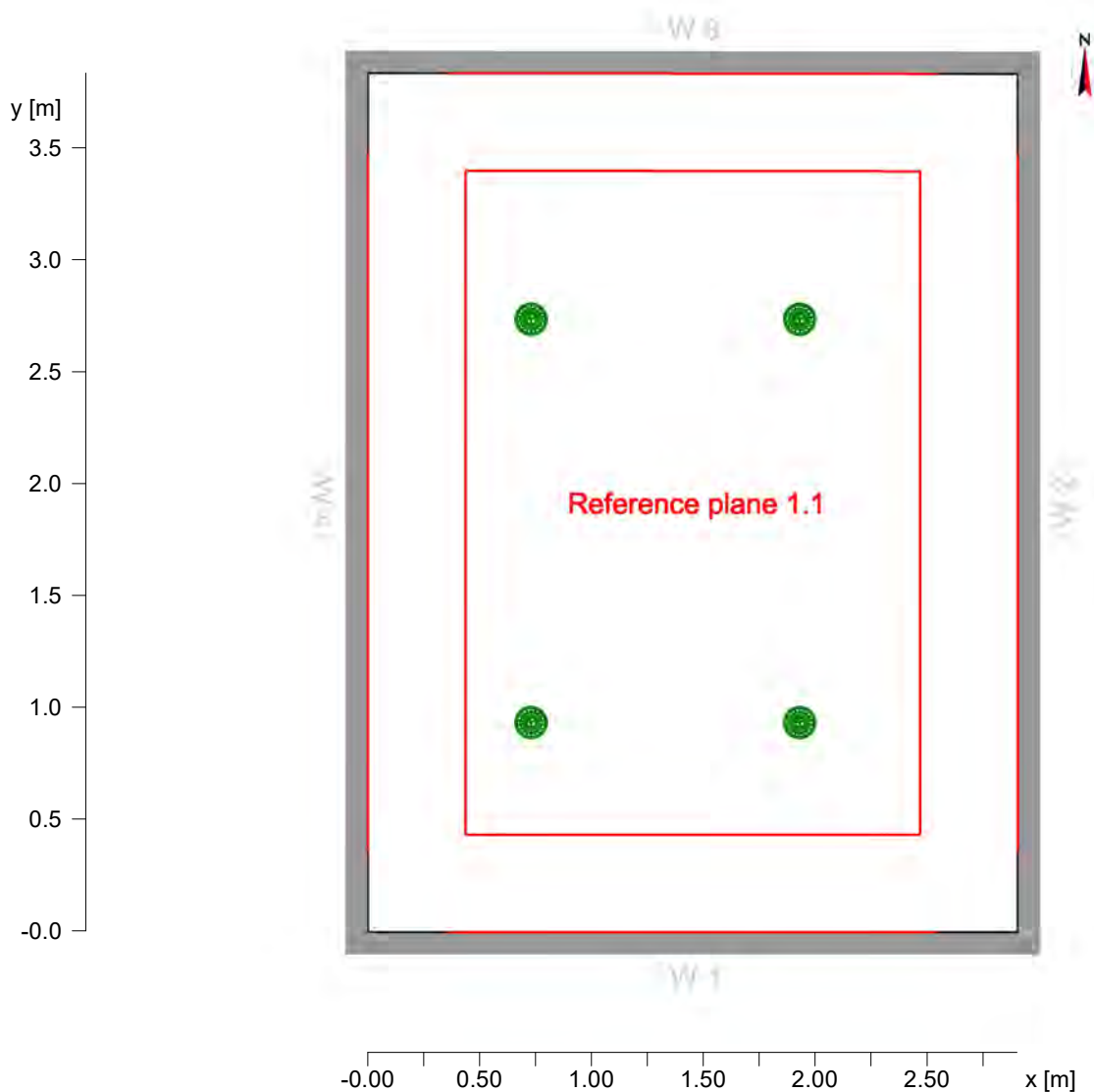
5	8 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm



3 Office 2

3.1 Description, Office 2

3.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	211.72 m	116.91 m	2.90 m	6.96	50.0 %
2	211.72 m	120.74 m	3.83 m	9.19	50.0 %
3	208.82 m	120.75 m	2.90 m	6.96	50.0 %
4	208.82 m	116.91 m	3.83 m	9.20	50.0 %
Floor:				11.1	20.0 %
Ceiling:				11.1	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		----			
Volume		26.7 m³			

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



3 Office 2

3.2 Summary, Office 2

3.2.1 Result overview, Evaluation area 1

Type No. Make

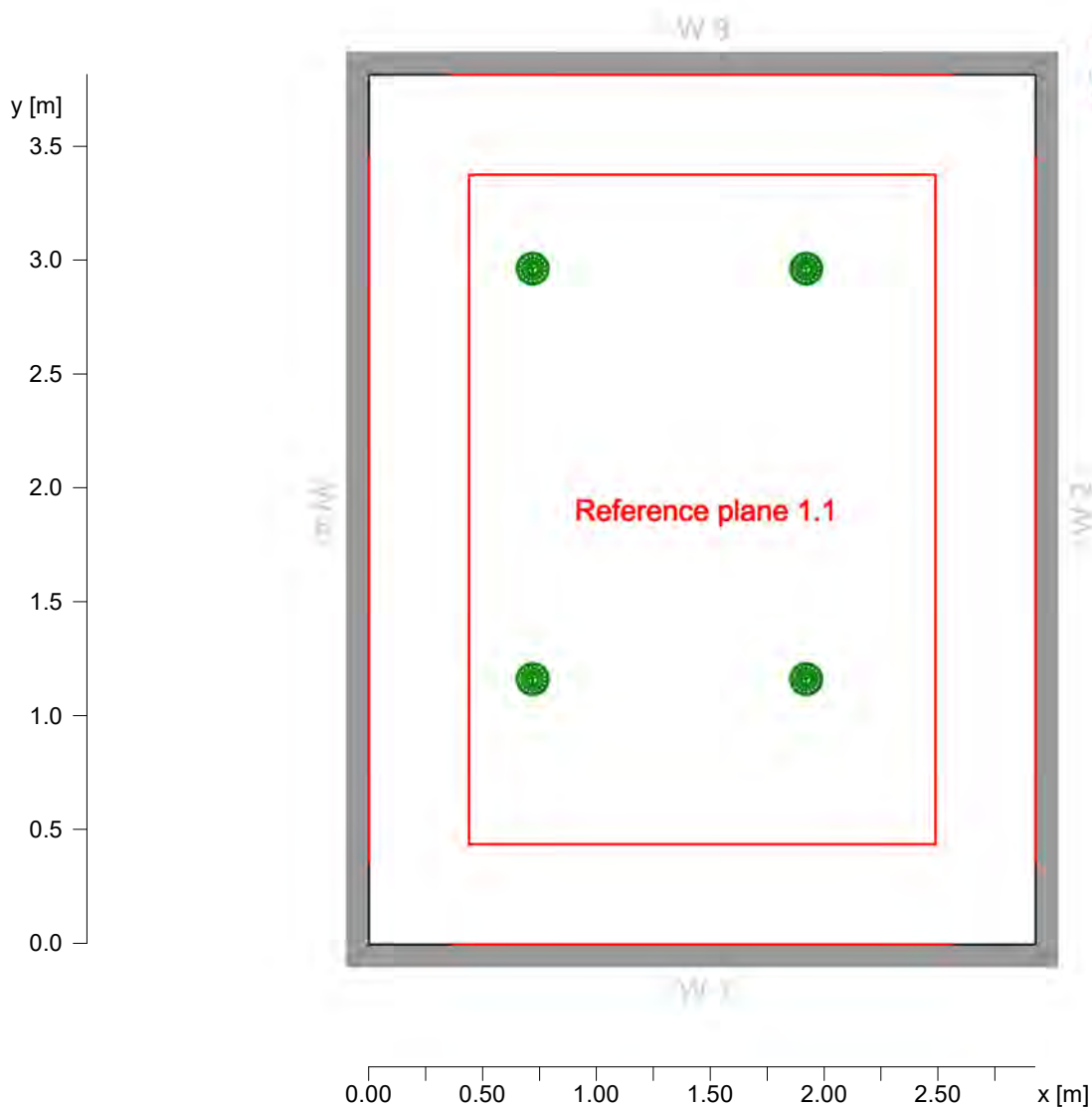
5	4 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm



4 Office 3

4.1 Description, Office 3

4.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	211.75 m	120.87 m	2.93 m	7.02	50.0 %
2	211.75 m	124.68 m	3.82 m	9.16	50.0 %
3	208.82 m	124.68 m	2.93 m	7.02	50.0 %
4	208.82 m	120.87 m	3.82 m	9.16	50.0 %
Floor:				11.2	20.0 %
Ceiling:				11.2	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume		26.8 m³			

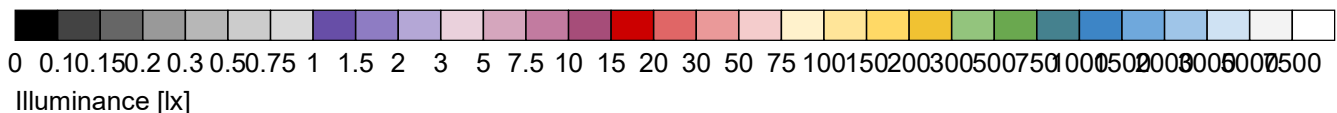
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



4 Office 3

4.2 Summary, Office 3

4.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (11.16 m²)

9800.00 lm
 8916.35 lm
 67.2 W
 6.02 W/m² (0.81 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	743 lx	180 lx
E_{min}	482 lx	119 lx
$E_{min}/\bar{E}_m (U_o)$	0.65	0.67
$E_{min}/E_{max} (U_d)$	0.51	
E_z/E_h		0.20
Position	0.75 m	1.20 m
RUG (2.4H 3.2H)	≤ 18.0	
Luminaire : (Easy Space - GL - $\varnothing 153$ mm, LED, QV86-D8, 16.8 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	78 lx	0.82
M 1.1 (Wall)	129 lx	0.56
M 1.2 (Wall)	139 lx	0.53
M 1.3 (Wall)	184 lx	0.44
M 1.4 (Wall)	187 lx	0.42

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



4 Office 3

4.2 Summary, Office 3

4.2.1 Result overview, Evaluation area 1

Type No. Make

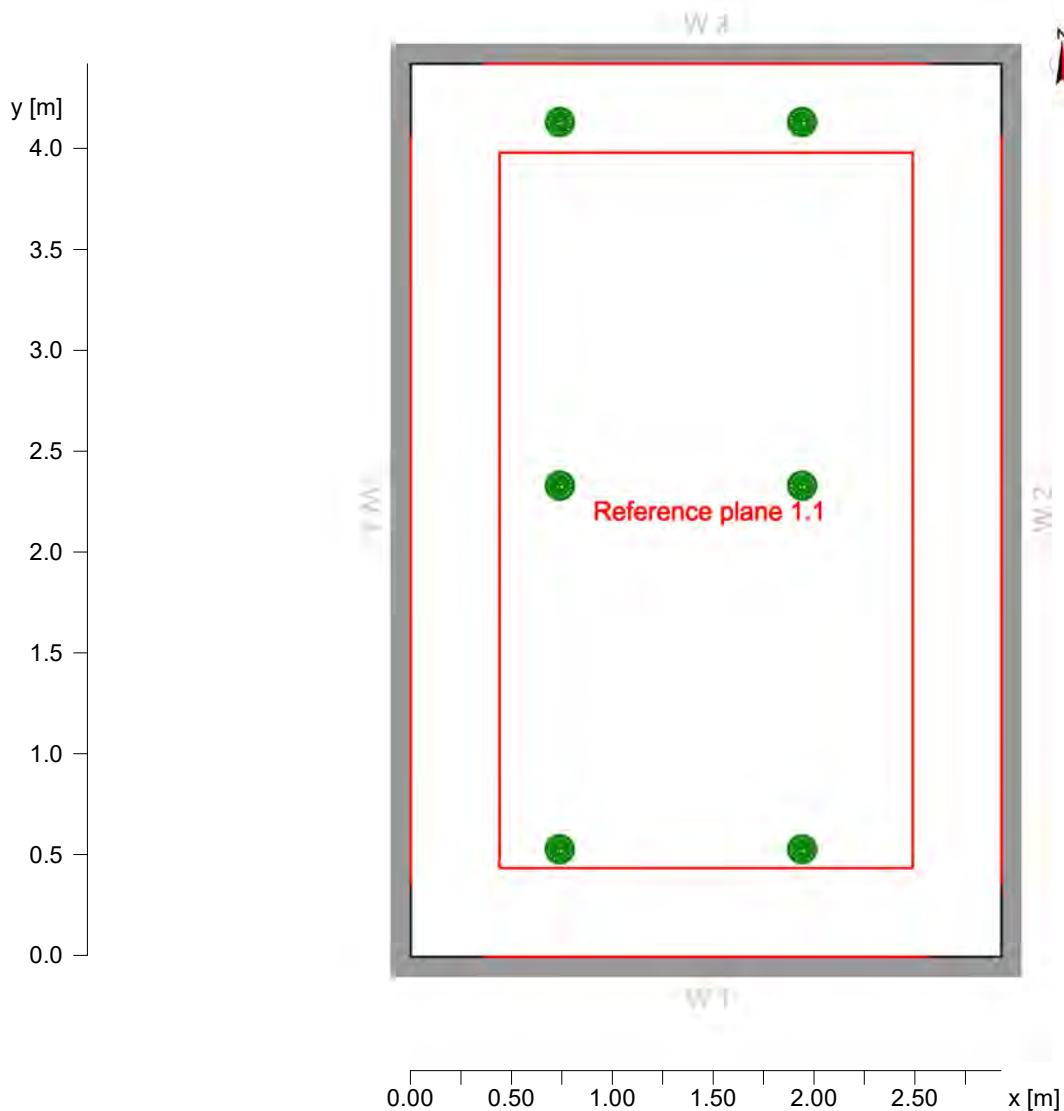
5	4 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm



5 Office 4

5.1 Description, Office 4

5.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	211.75 m	124.78 m	2.93 m	7.02	50.0 %
2	211.75 m	129.20 m	4.42 m	10.61	50.0 %
3	208.82 m	129.20 m	2.93 m	7.02	50.0 %
4	208.82 m	124.78 m	4.42 m	10.61	50.0 %
Floor:				12.9	20.0 %
Ceiling:				12.9	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume		31.0 m³			

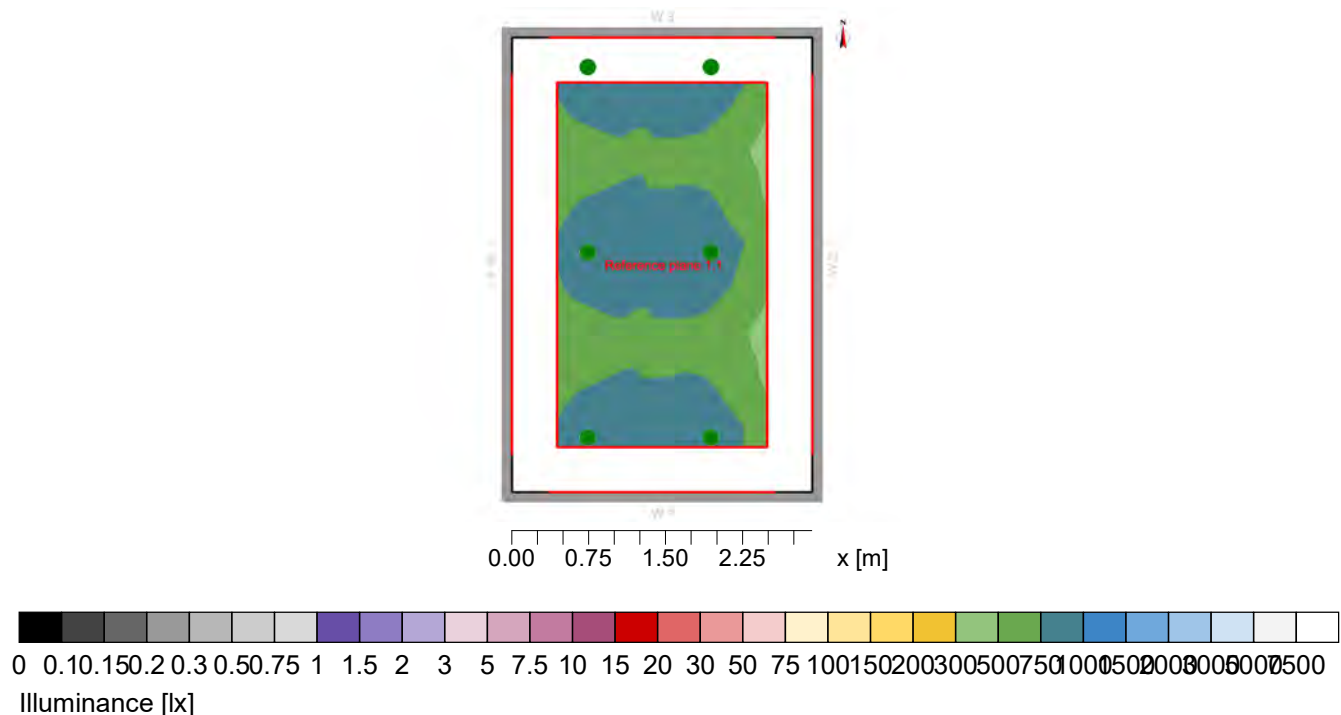
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



5 Office 4

5.2 Summary, Office 4

5.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (12.93 m²)

14700.00 lm
 13374.53 lm
 100.8 W
 7.79 W/m² (1.01 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	773 lx	213 lx
E_{min}	510 lx	161 lx
$E_{min}/\bar{E}_m (U_o)$	0.66	0.76
$E_{min}/E_{max} (U_d)$	0.51	
E_z/E_h		0.25
Position	0.75 m	1.20 m
RUG (2.4H 3.7H)	≤ 18.1	
Luminaire : (Easy Space - GL - $\phi 153$ mm, LED, QV86-D8, 16.8 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	110 lx	0.87
M 1.1 (Wall)	302 lx	0.42
M 1.2 (Wall)	175 lx	0.65
M 1.3 (Wall)	397 lx	0.40
M 1.4 (Wall)	216 lx	0.55

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



5 Office 4

5.2 Summary, Office 4

5.2.1 Result overview, Evaluation area 1

Type No. Make

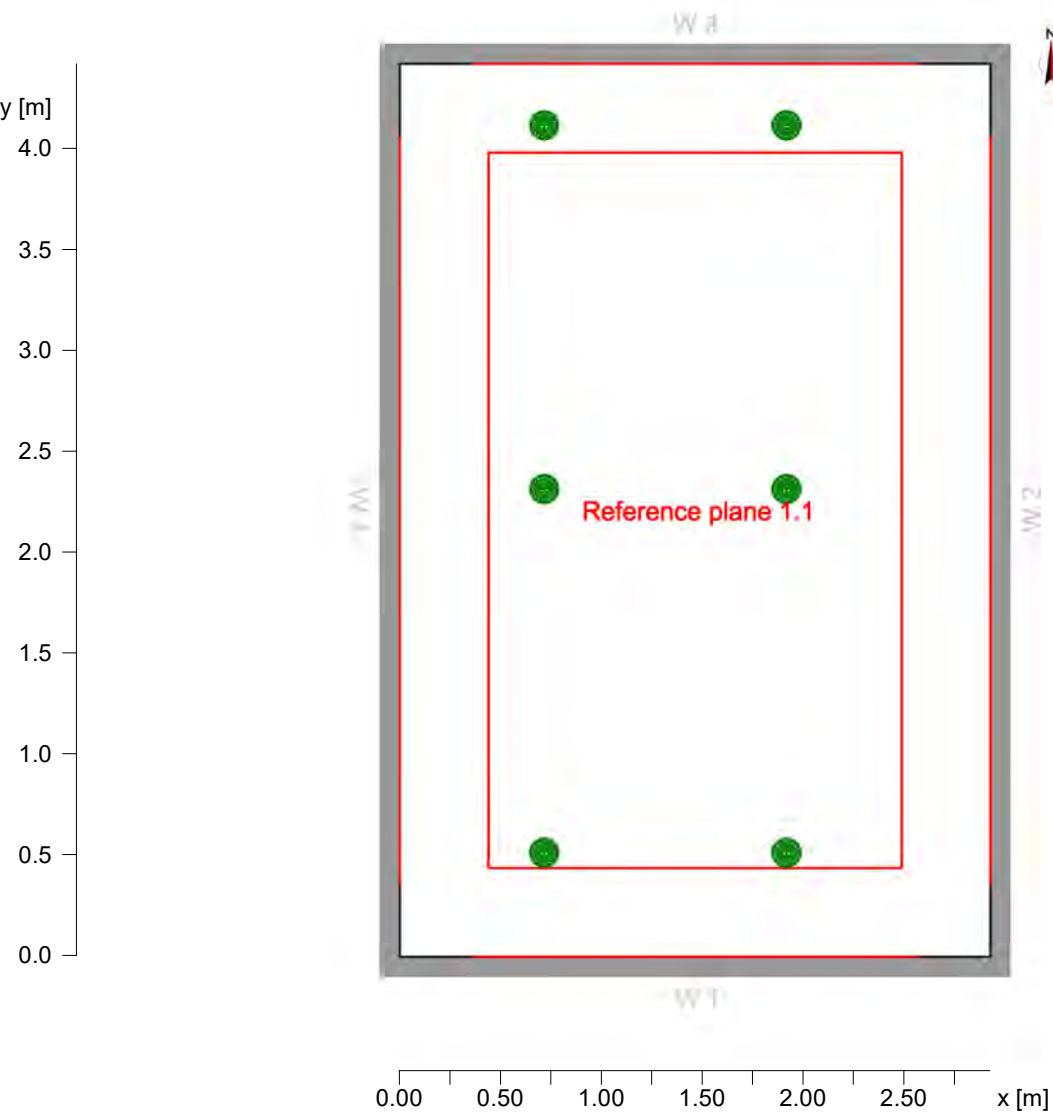
5	6 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm



6 Office 5

6.1 Description, Office 5

6.1.1 Floor plan

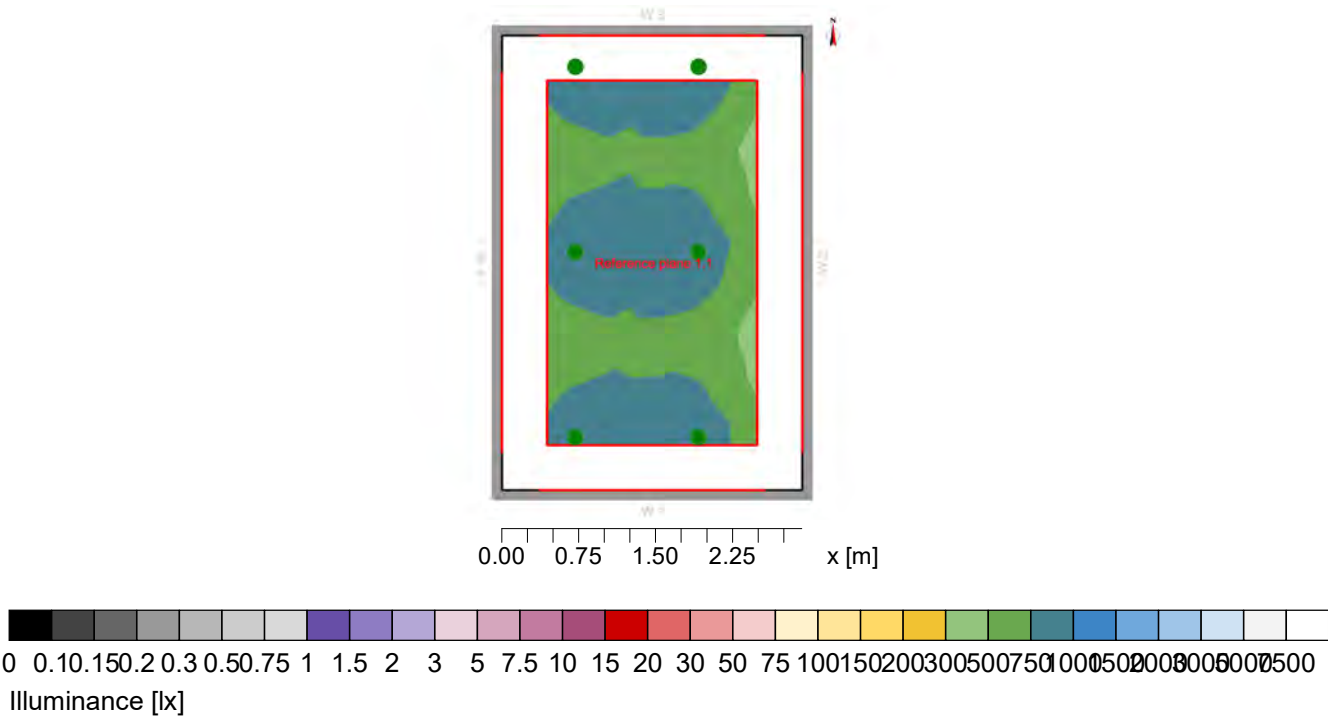


Wall	x	y	Length	Area[m²]	Reflectance
1	211.75 m	129.30 m	2.93 m	7.02	50.0 %
2	211.75 m	133.72 m	4.42 m	10.61	50.0 %
3	208.82 m	133.72 m	2.93 m	7.02	50.0 %
4	208.82 m	129.30 m	4.42 m	10.61	50.0 %
Floor:				12.9	20.0 %
Ceiling:				12.9	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume		31.0 m³			

6 Office 5

6.2 Summary, Office 5

6.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
Height of luminaire plane
Maintenance factor

Average indirect fraction
2.40 m
0.80

Total lamp luminous flux
Luminaire luminous flux
Total power
Total power per area (12.93 m²)

14700.00 lm
13374.53 lm
100.8 W
7.79 W/m² (1.01 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	772 lx	213 lx
E_{min}	504 lx	162 lx
$E_{min}/\bar{E}_m (U_o)$	0.65	0.76
$E_{min}/E_{max} (U_d)$	0.51	
E_z/E_h		0.25
Position	0.75 m	1.20 m
RUG (2.4H 3.7H)	<=18.1	
Luminaire : (Easy Space - GL - ø153mm, LED, QV86-D8, 16.8 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	111 lx	0.87
M 1.1 (Wall)	307 lx	0.40
M 1.2 (Wall)	173 lx	0.66
M 1.3 (Wall)	394 lx	0.37
M 1.4 (Wall)	221 lx	0.54

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



6 Office 5

6.2 Summary, Office 5

6.2.1 Result overview, Evaluation area 1

Type No. Make

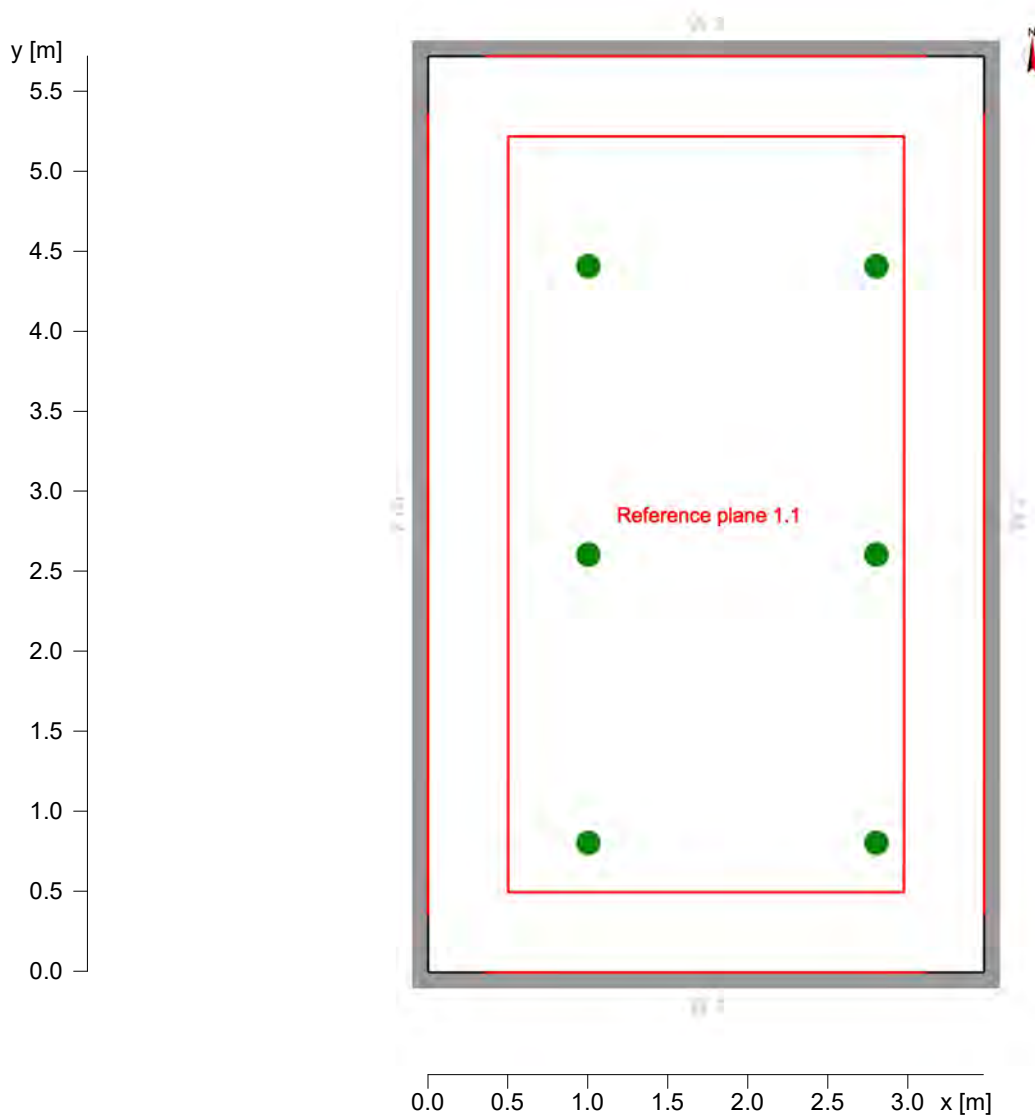
5	6 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm



7 Office 6

7.1 Description, Office 6

7.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	216.42 m	124.78 m	3.47 m	8.34	50.0 %
2	216.42 m	130.50 m	5.72 m	13.73	50.0 %
3	212.95 m	130.50 m	3.47 m	8.34	50.0 %
4	212.95 m	124.78 m	5.72 m	13.73	50.0 %
Floor:				19.9	20.0 %
Ceiling:				19.9	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume		47.7 m³			

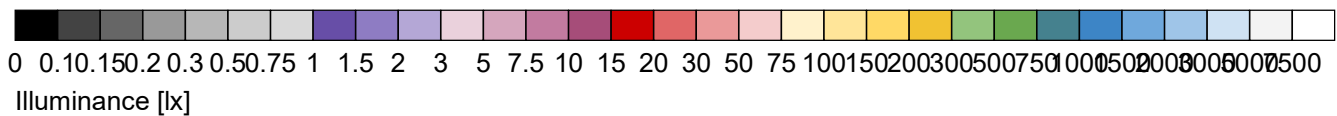
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



7 Office 6

7.2 Summary, Office 6

7.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (19.87 m²)

14700.00 lm
 13374.53 lm
 100.8 W
 5.07 W/m² (0.86 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	592 lx	150 lx
E_{min}	395 lx	112 lx
$E_{min}/\bar{E}_m (U_o)$	0.67	0.74
$E_{min}/E_{max} (U_d)$	0.50	
E_z/E_h		0.23
Position	0.75 m	1.20 m
RUG (2.9H 4.8H)	≤ 18.2	
Luminaire : (Easy Space - GL - $\varnothing 153$ mm, LED, QV86-D8, 16.8 W)		

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	76 lx	0.76
M 1.1 (Wall)	168 lx	0.50
M 1.2 (Wall)	184 lx	0.33
M 1.3 (Wall)	99 lx	0.66
M 1.4 (Wall)	133 lx	0.45

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



7 Office 6

7.2 Summary, Office 6

7.2.1 Result overview, Evaluation area 1

Type No. Make

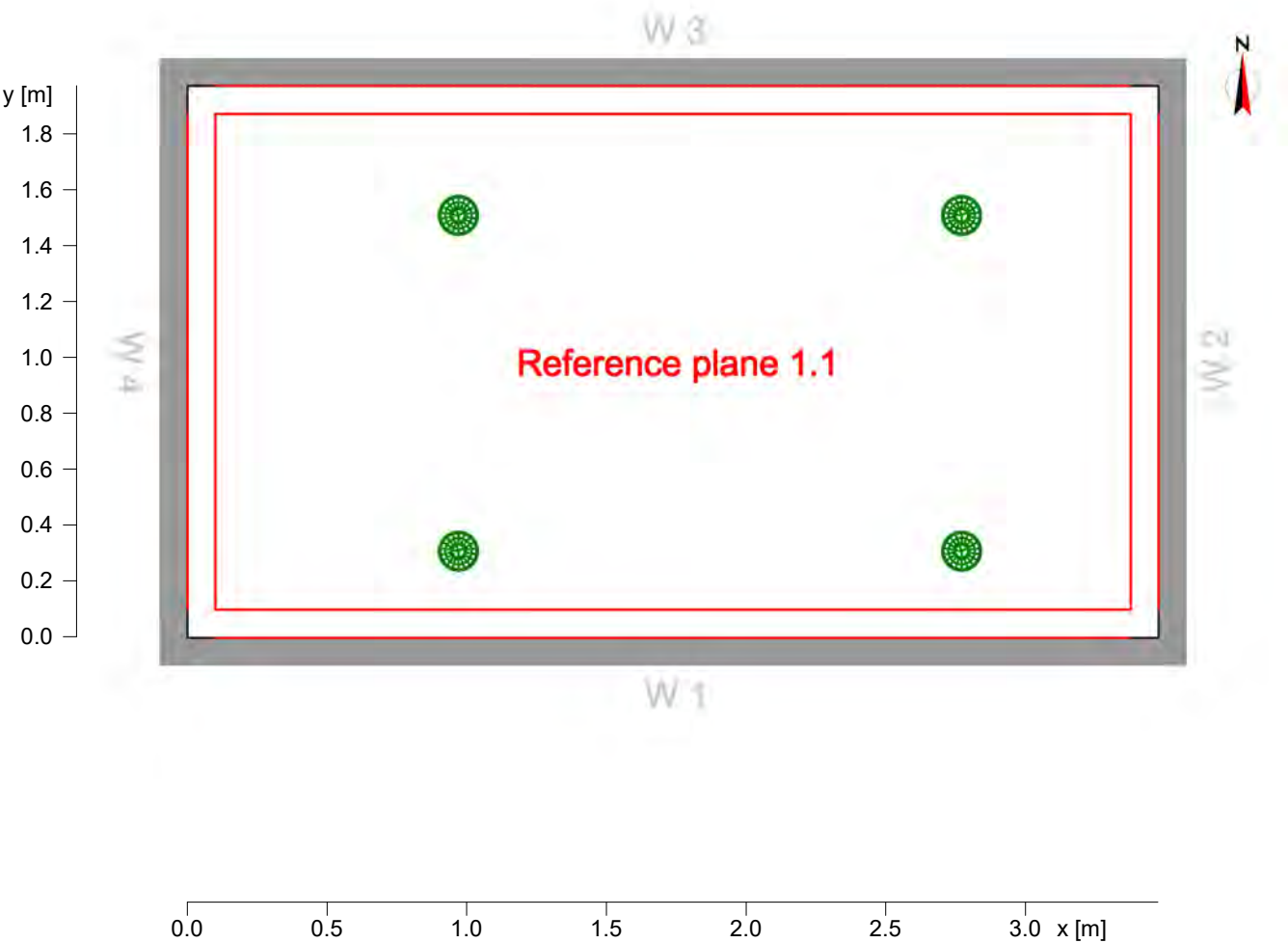
5	6 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm



8 Office 7

8.1 Description, Office 7

8.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	216.42 m	130.60 m	3.47 m	8.34	50.0 %
2	216.42 m	132.58 m	1.97 m	4.73	50.0 %
3	212.95 m	132.58 m	3.47 m	8.34	50.0 %
4	212.95 m	130.60 m	1.97 m	4.73	50.0 %
Floor:				6.9	20.0 %
Ceiling:				6.9	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume		16.4 m³			

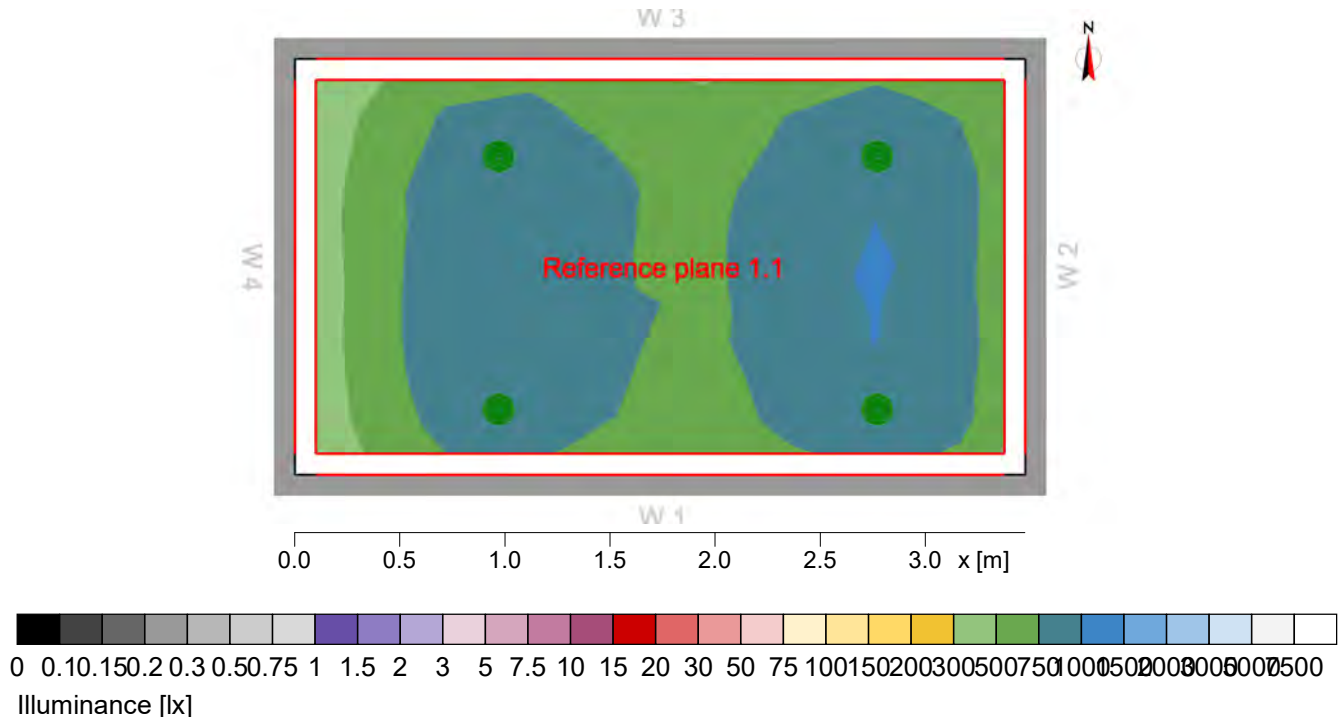
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



8 Office 7

8.2 Summary, Office 7

8.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (6.85 m²)

9800.00 lm
 8916.35 lm
 67.2 W
 9.81 W/m² (1.23 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 $\bar{E}_m$ 797 lx
 E_{min} 502 lx
 $E_{min}/\bar{E}_m (U_o)$ 0.63
 $E_{min}/E_{max} (U_d)$ 0.48
 E_z/E_h 0.25
 Position 0.75 m
 RUG (1.7H 2.9H) <=17.9
 Luminaire :
 (Easy Space - GL - ø153mm, LED, QV86-D8, 16.8 W)

cylindrical
 229 lx
 163 lx
 0.71
 0.25
 1.20 m

Major surfaces

$\bar{E}_m$
 M 1.5 (Ceiling) 118 lx
 M 1.1 (Wall) 297 lx
 M 1.2 (Wall) 260 lx
 M 1.3 (Wall) 269 lx
 M 1.4 (Wall) 197 lx

U_o
 0.71
 0.33
 0.49
 0.37
 0.52

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



8 Office 7

8.2 Summary, Office 7

8.2.1 Result overview, Evaluation area 1

Type No. Make

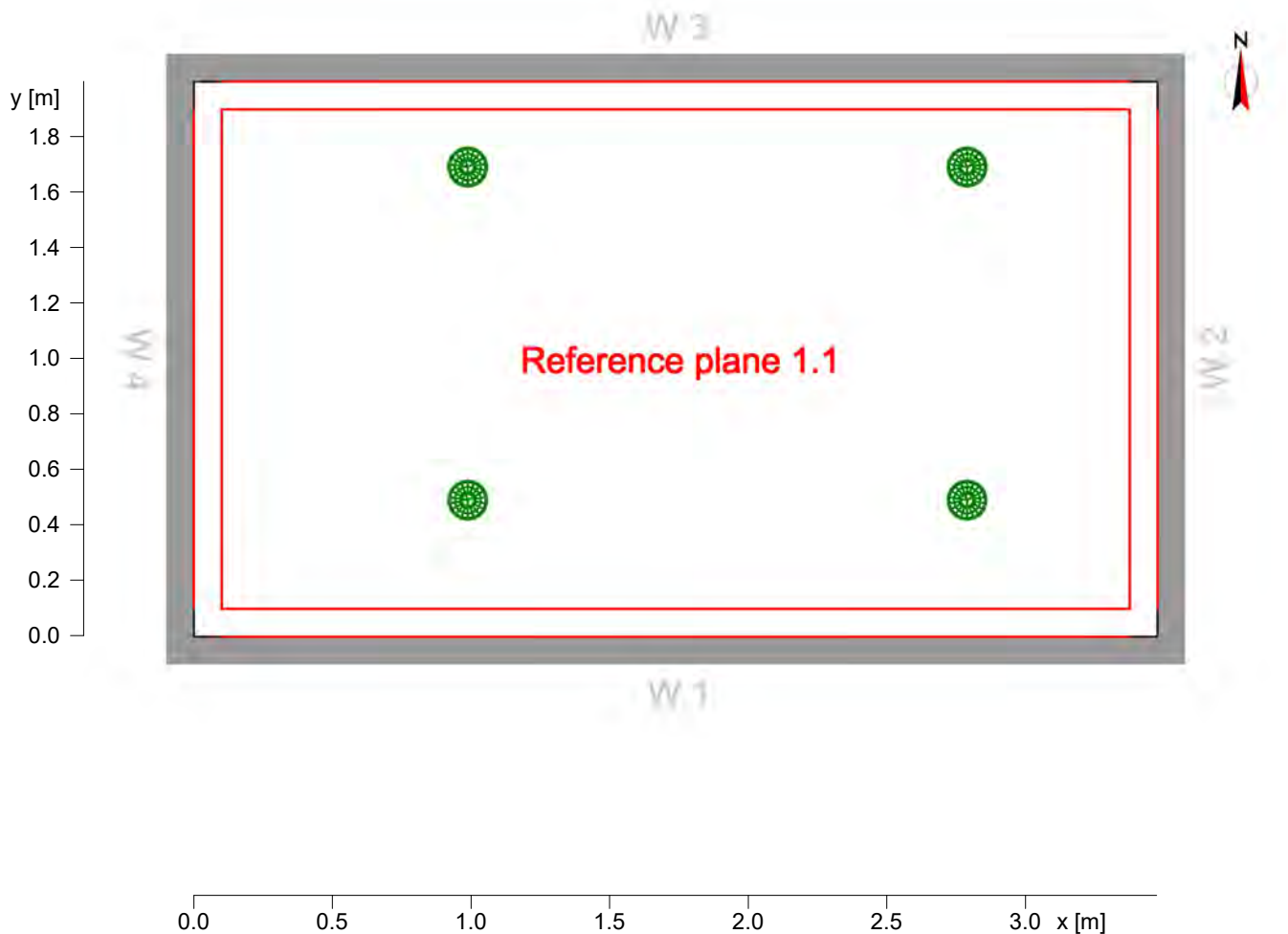
5	4 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm



9 Office 8

9.1 Description, Office 8

9.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	216.42 m	132.68 m	3.47 m	8.34	50.0 %
2	216.42 m	134.68 m	2.00 m	4.80	50.0 %
3	212.95 m	134.68 m	3.47 m	8.34	50.0 %
4	212.95 m	132.68 m	2.00 m	4.80	50.0 %
Floor:				6.9	20.0 %
Ceiling:				6.9	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume		16.7 m³			

iGuzzini

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



9 Office 8

9.2 Summary, Office 8

9.2.1 Result overview, Evaluation area 1

Type No. Make

5	4 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm

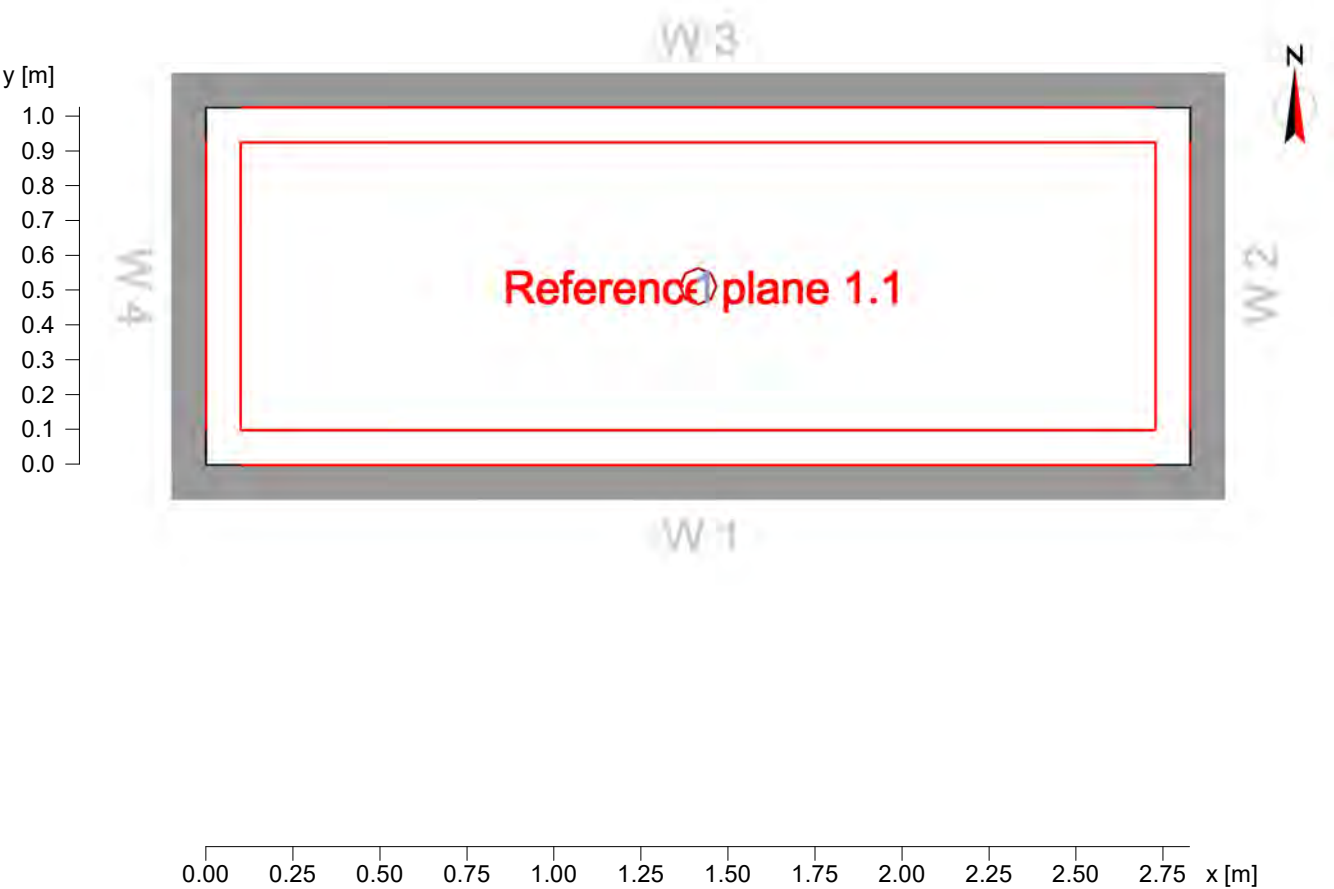




10 WC 1

10.1 Description, WC 1

10.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	211.65 m	133.82 m	2.83 m	6.78	50.0 %
2	211.65 m	134.85 m	1.03 m	2.46	50.0 %
3	208.82 m	134.85 m	2.83 m	6.78	50.0 %
4	208.82 m	133.82 m	1.03 m	2.46	50.0 %
Floor:				2.9	20.0 %
Ceiling:				2.9	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		7.0 m³			

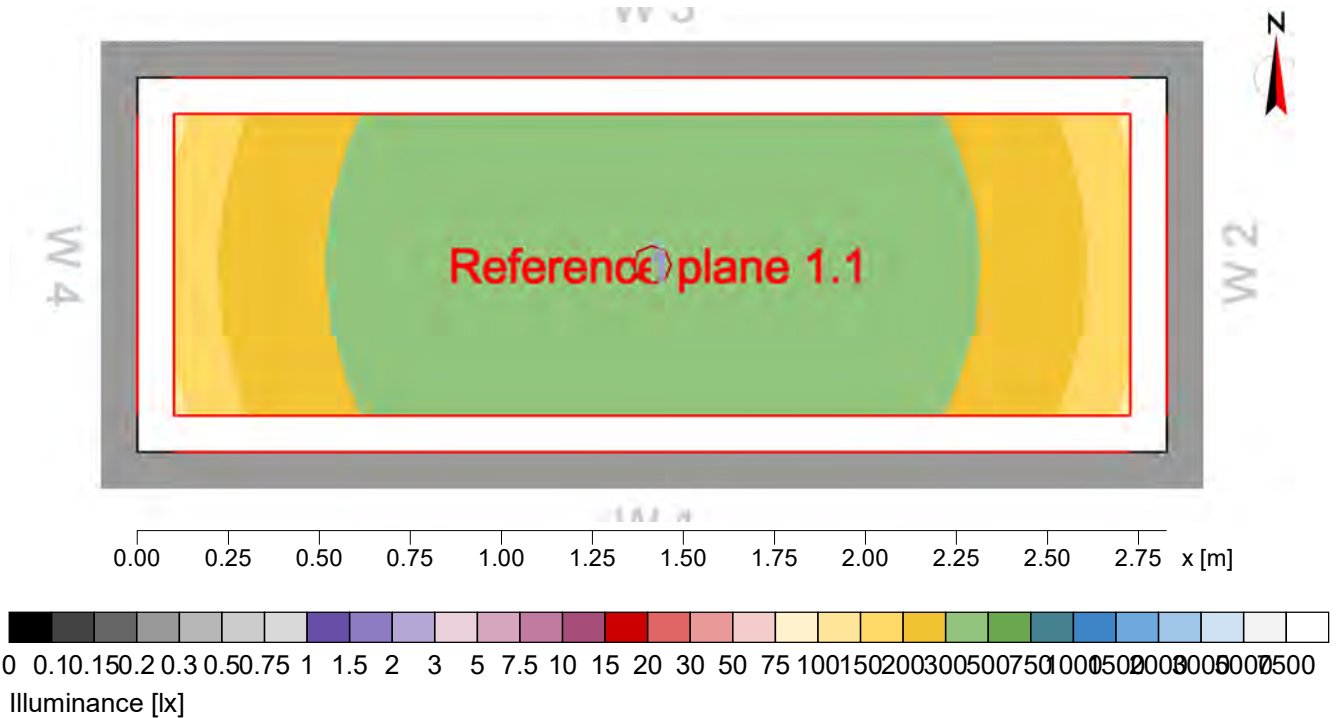
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



10 WC 1

10.2 Summary, WC 1

10.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	2240.00 lm
Luminaire luminous flux	2105.05 lm
Total power	19.2 W
Total power per area (2.90 m ²)	6.62 W/m ² (1.92 W/m ² /100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
E_{min}	344 lx	93 lx
$E_{min}/\bar{E}_m (U_o)$	170 lx	52 lx
$E_{min}/E_{max} (U_d)$	0.49	0.57
E_z/E_h	0.36	0.22
Position	0.00 m	0.45 m
RUG (2.5H 0.9H)	10.0	

Luminaire :

(Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standard no cable - Black - Matte White - 19.2W 2110lm)

Hints:

- Encountered room dimensions less than 2H. RUG value has been set to 10 as lower limit.

Major surfaces

	$\bar{E}_m$	U_o
M 1.9 (Ceiling)	35 lx	0.68
M 1.1 (Wall)	118 lx	0.19
M 1.6 (Wall)	48 lx	0.49

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



10 WC 1

10.2 Summary, WC 1

10.2.1 Result overview, Evaluation area 1

M 1.7 (Wall)	118 lx	0.19
M 1.8 (Wall)	47 lx	0.49

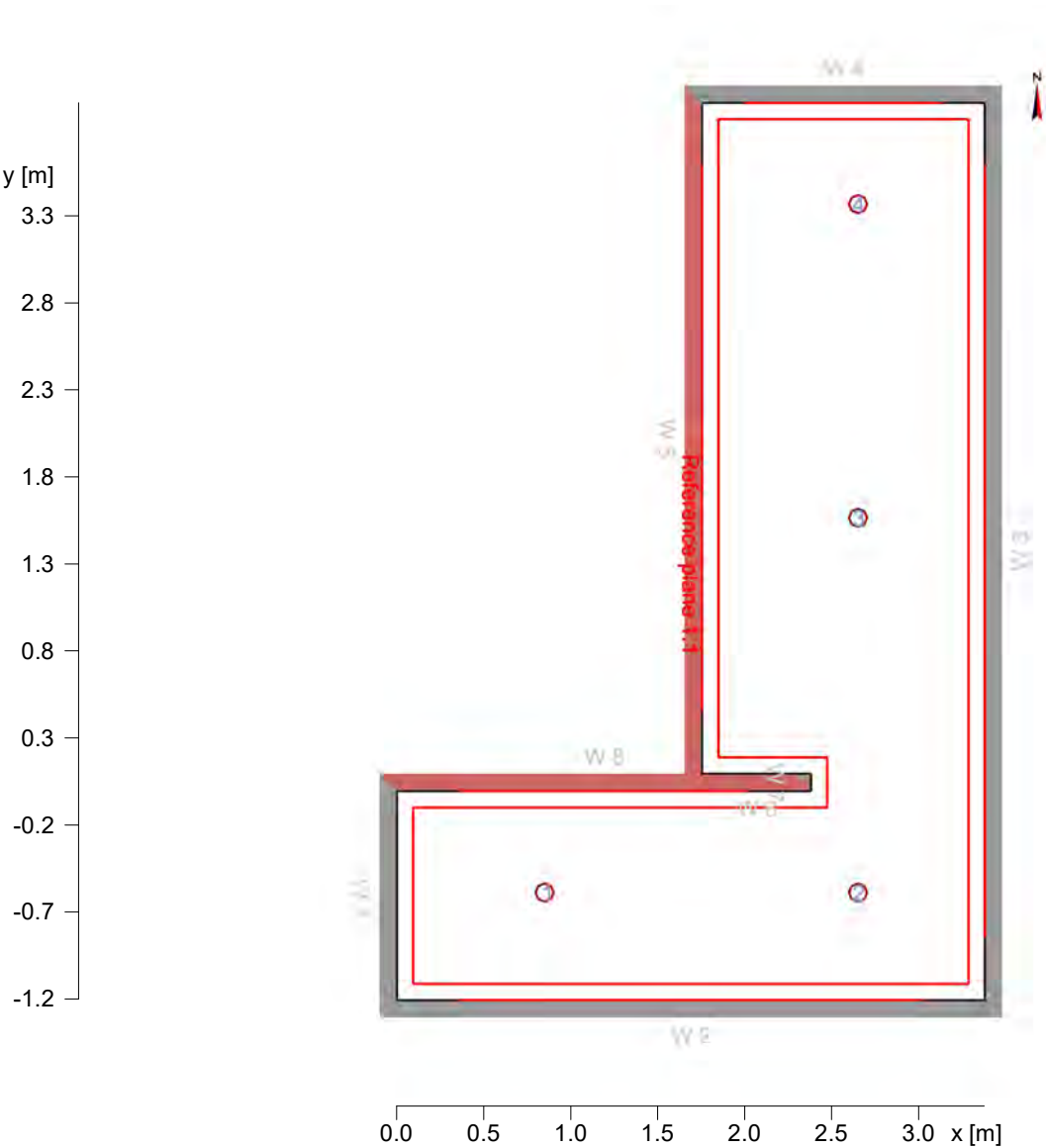
Type No.\Make

11	1 x		iGuzzini
			Order No. : LSEVO-AAH6HS
			Luminaire name : Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
			Equipment : 1 x LED / 17W 19.2 W / 2240 lm

11 Locker room

11.1 Description, Locker room

11.1.1 Floor plan

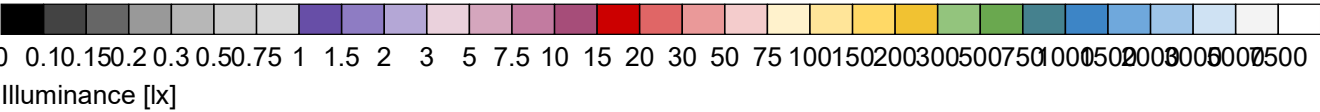
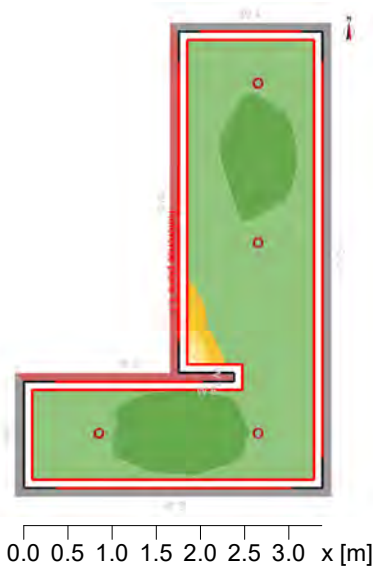


Wall	x	y	Length	Area[m²]	Reflectance
1	213.04 m	134.78 m	1.20 m	2.88	50.0 %
2	216.42 m	134.78 m	3.38 m	8.10	50.0 %
3	216.42 m	139.93 m	5.15 m	12.36	50.0 %
4	214.80 m	139.93 m	1.62 m	3.90	50.0 %
5	214.80 m	136.08 m	3.85 m	9.24	50.0 %
6	215.42 m	136.08 m	0.63 m	1.50	50.0 %
7	215.42 m	135.98 m	0.10 m	0.24	50.0 %
8	213.04 m	135.98 m	2.38 m	5.71	50.0 %
Floor:				10.4	20.0 %
Ceiling:				10.4	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		25.0 m³			

11 Locker room

11.2 Summary, Locker room

11.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	8960.00 lm
Luminaire luminous flux	8420.18 lm
Total power	76.8 W
Total power per area (10.40 m²)	7.38 W/m² (1.65 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	Horizontal	cylindrical
E_{min}	447 lx	123 lx
$E_{min}/\bar{E}_m (U_o)$	109 lx	38 lx
$E_{min}/E_{max} (U_d)$	0.24	0.31
E_z/E_h	0.20	
Position	0.00 m	0.24
RUG (--- ---)	---	0.45 m

Hints:
- Room dimensions deviate too much from a rectangular room.

Major surfaces

	$\bar{E}_m$	U_o
M 1.8 (Ceiling)	50 lx	0.62
M 1.3 (Wall)	173 lx	0.28
M 1.4 (Wall)	124 lx	0.31
M 1.5 (Wall)	183 lx	0.20

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



11 Locker room

11.2 Summary, Locker room

11.2.1 Result overview, Evaluation area 1

M 1.6 (Wall)	97 lx	0.39
M 1.7 (Wall)	172 lx	0.27

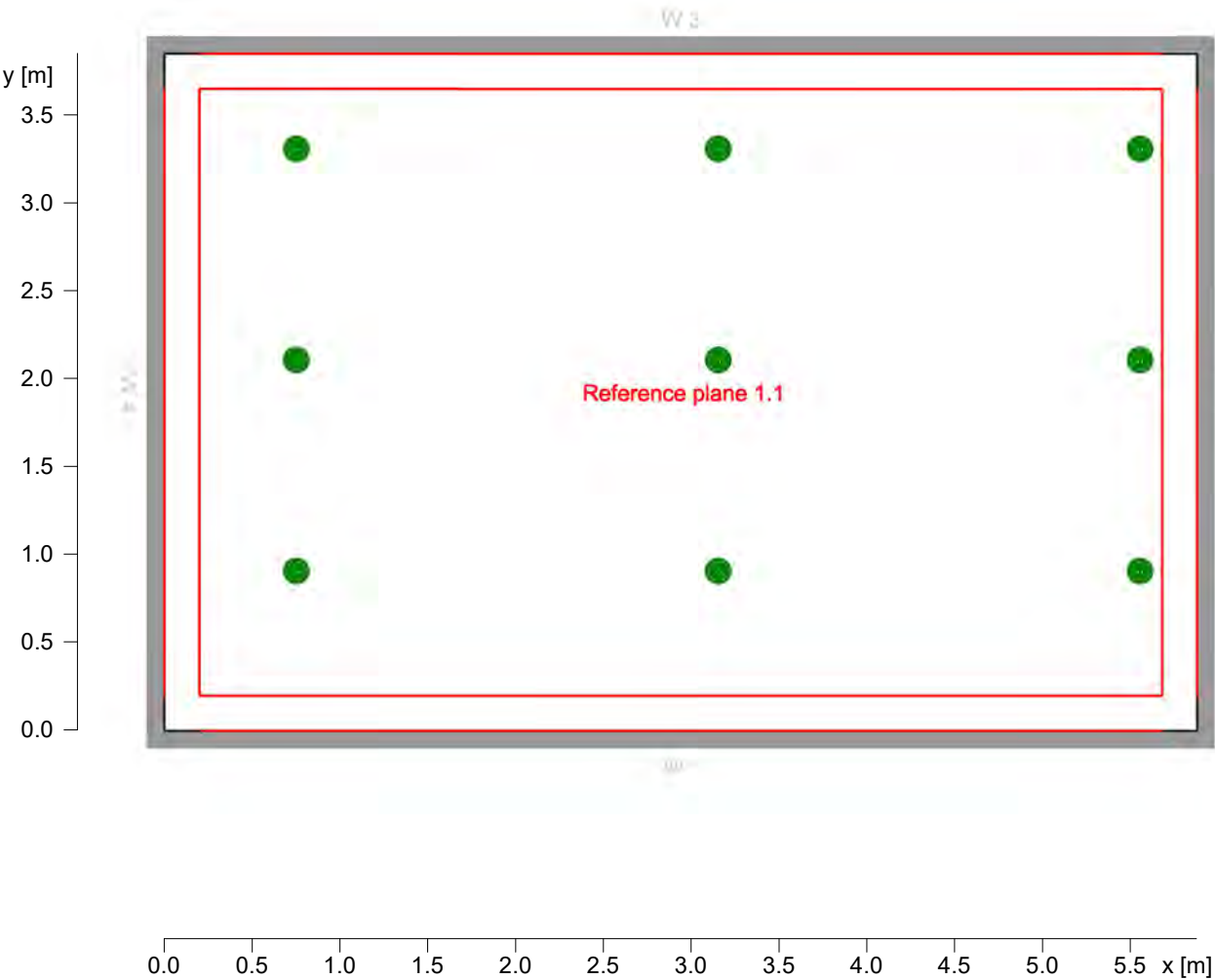
Type No.\Make

11	4 x		iGuzzini
			Order No. : LSEVO-AAH6HS
			Luminaire name : Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
			Equipment : 1 x LED / 17W 19.2 W / 2240 lm

12 Open office area

12.1 Description, Open office area

12.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	214.70 m	136.08 m	5.88 m	14.10	50.0 %
2	214.70 m	139.92 m	3.85 m	9.24	50.0 %
3	208.82 m	139.93 m	5.88 m	14.10	50.0 %
4	208.82 m	136.08 m	3.85 m	9.24	50.0 %
Floor:				22.6	20.0 %
Ceiling:				22.6	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume				54.3 m³	



Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



12 Open office area

12.2 Summary, Open office area

12.2.1 Result overview, Evaluation area 1

Type No. Make

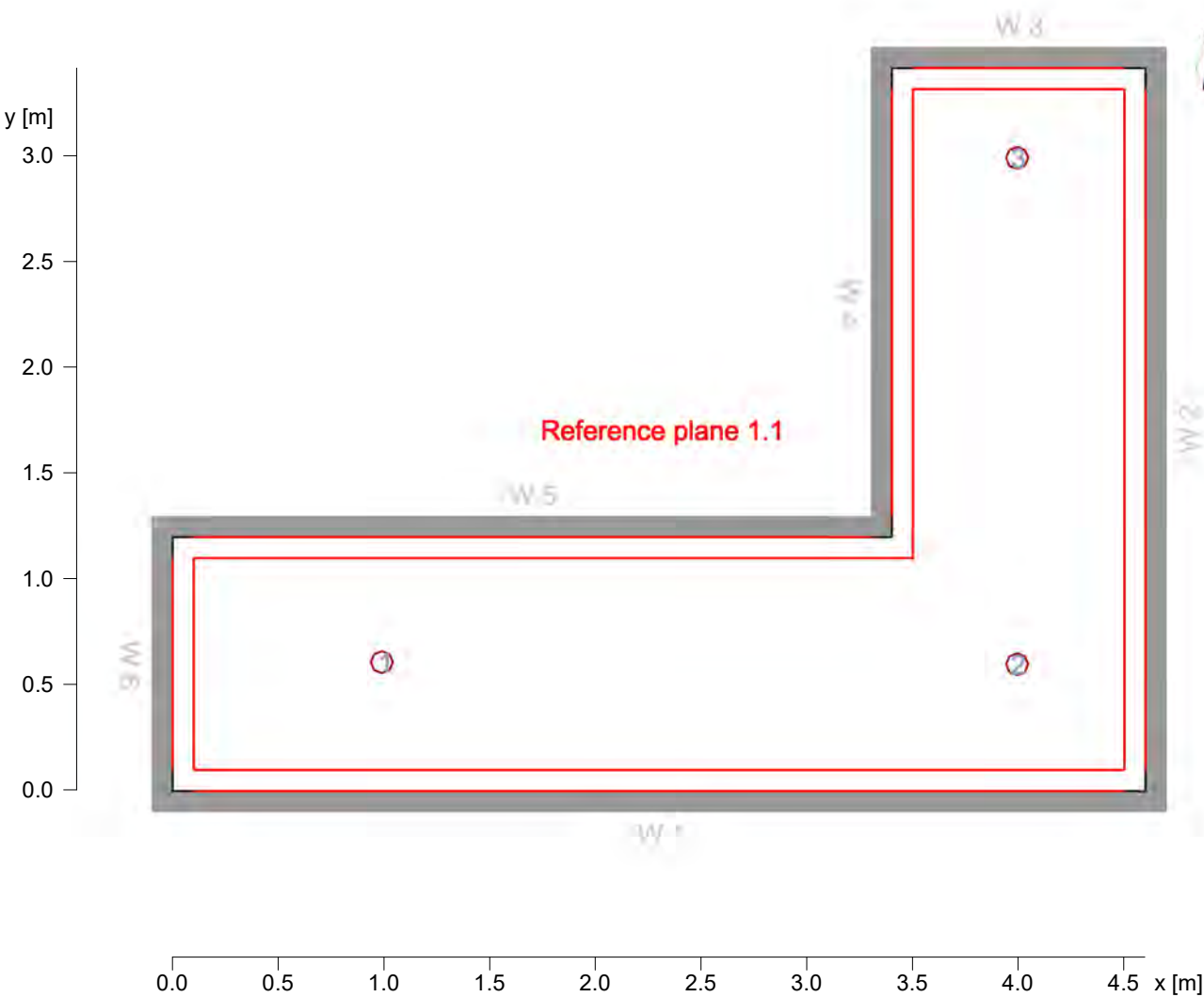
5	9 x	iGuzzini	
		Order No.	: QV86-D8
		Luminaire name	: Easy Space - GL - ø153mm
		Equipment	: 1 x LED 16.8 W / 2450 lm



13 Circulation 2

13.1 Description, Circulation 2

13.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	216.42 m	140.03 m	4.60 m	11.04	50.0 %
2	216.42 m	143.44 m	3.42 m	8.20	50.0 %
3	215.22 m	143.44 m	1.20 m	2.88	50.0 %
4	215.22 m	141.23 m	2.21 m	5.32	50.0 %
5	211.82 m	141.23 m	3.40 m	8.16	50.0 %
6	211.82 m	140.03 m	1.20 m	2.88	50.0 %
Floor:				8.2	20.0 %
Ceiling:				8.2	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.75 m			
Volume		19.6 m³			

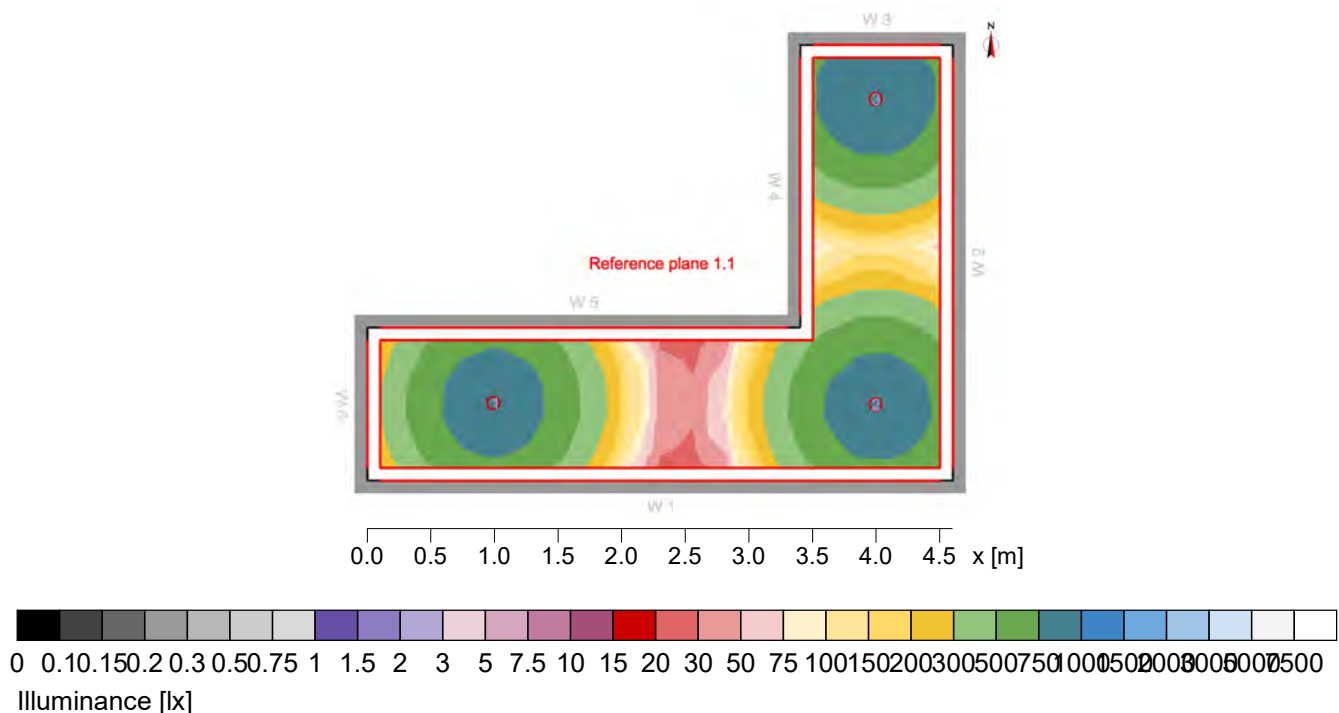
Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



13 Circulation 2

13.2 Summary, Circulation 2

13.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
Height of luminaire plane
Maintenance factor

Average indirect fraction
2.40 m
0.80

Total lamp luminous flux
Luminaire luminous flux
Total power
Total power per area (8.17 m²)

6720.00 lm
6315.14 lm
57.6 W
7.05 W/m² (1.41 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

$\bar{E}_m$	498 lx	cylindrical
E_{min}	26 lx	128 lx
$E_{min}/\bar{E}_m (U_o)$	0.05	33 lx
$E_{min}/E_{max} (U_d)$	0.03	0.26
E_z/E_h		0.20
Position	0.75 m	1.20 m
RUG (--- ---)	---	

Hints:
- Room dimensions deviate too much from a rectangular room.

Major surfaces

$\bar{E}_m$	U_o	
M 1.9 (Ceiling)	47 lx	0.68
M 1.1 (Wall)	115 lx	0.25
M 1.2 (Wall)	144 lx	0.23
M 1.5 (Wall)	247 lx	0.15

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



13 Circulation 2

13.2 Summary, Circulation 2

13.2.1 Result overview, Evaluation area 1

M 1.6 (Wall)	136 lx	0.30
M 1.7 (Wall)	100 lx	0.29
M 1.8 (Wall)	96 lx	0.29

Type No.\Make

11	3 x	iGuzzini	
		Order No.	: LSEVO-AAH6HS
		Luminaire name	: Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
		Equipment	: 1 x LED / 17W 19.2 W / 2240 lm

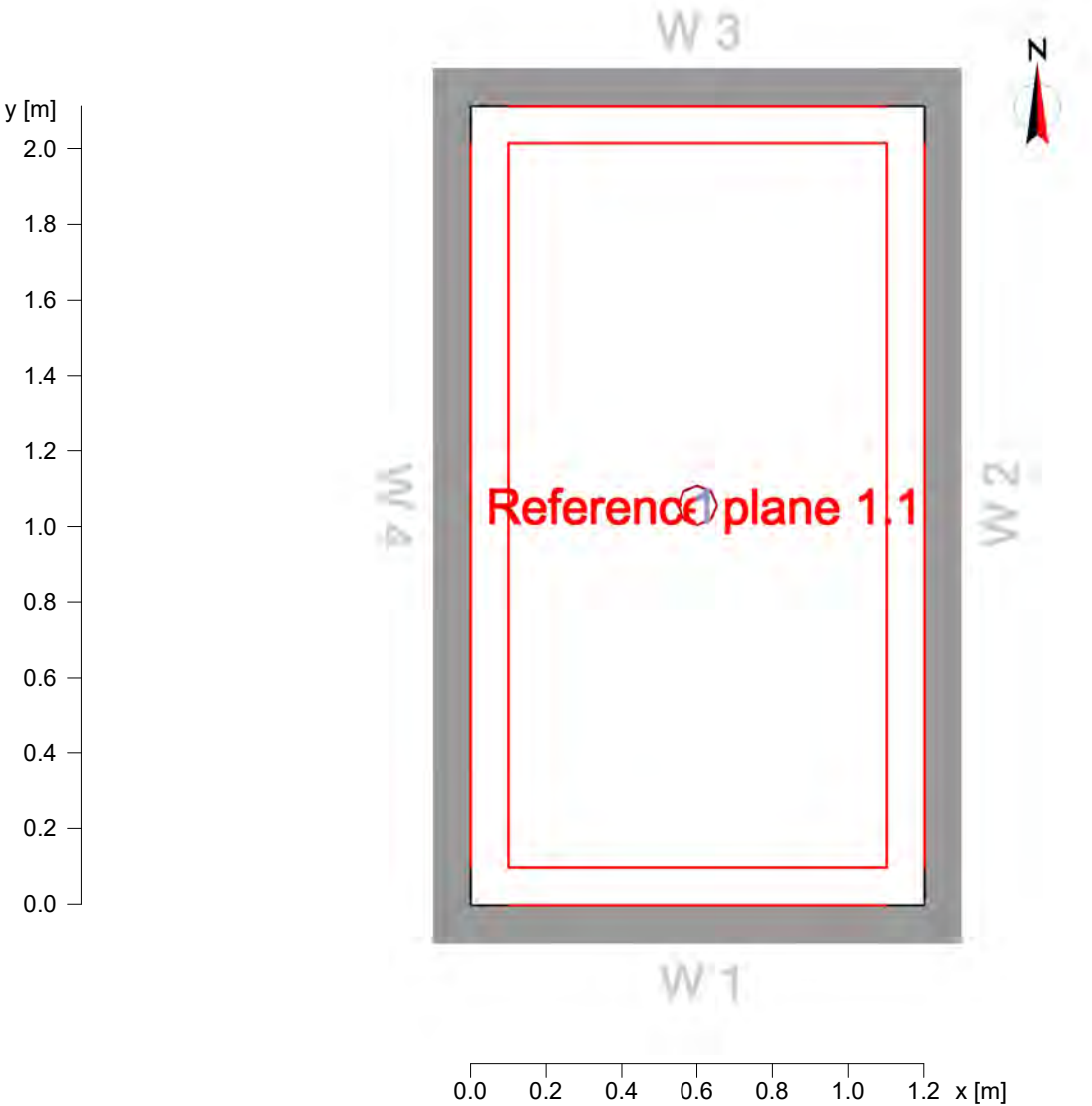




14 WC 2

14.1 Description, WC 2

14.1.1 Floor plan

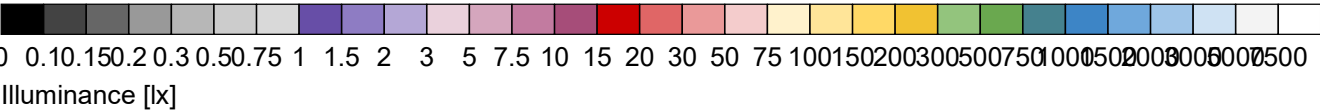


Wall	x	y	Length	Area[m²]	Reflectance
1	215.12 m	141.33 m	1.20 m	2.88	50.0 %
2	215.12 m	143.44 m	2.12 m	5.08	50.0 %
3	213.92 m	143.44 m	1.20 m	2.88	50.0 %
4	213.92 m	141.33 m	2.12 m	5.08	50.0 %
Floor:				2.5	20.0 %
Ceiling:				2.5	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		6.1 m³			

14 WC 2

14.2 Summary, WC 2

14.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	2240.00 lm
Luminaire luminous flux	2105.05 lm
Total power	19.2 W
Total power per area (2.54 m²)	7.56 W/m² (1.91 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	397 lx	112 lx
E_{min}	311 lx	91 lx
$E_{min}/\bar{E}_m (U_o)$	0.78	0.82
$E_{min}/E_{max} (U_d)$	0.66	
E_z/E_h		0.22
Position	0.00 m	0.45 m
RUG (1.0H 1.8H)	10.0	

Luminaire :
(Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standard no cable - Black - Matte White - 19.2W 2110lm)
Hints:
- Encountered room dimensions less than 2H. RUG value has been set to 10 as lower limit.

Major surfaces

	$\bar{E}_m$	U_o
M 1.8 (Ceiling)	36 lx	0.82
M 1.4 (Wall)	84 lx	0.30
M 1.5 (Wall)	130 lx	0.20

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



14 WC 2

14.2 Summary, WC 2

14.2.1 Result overview, Evaluation area 1

M 1.6 (Wall)	84 lx	0.30
M 1.7 (Wall)	130 lx	0.20

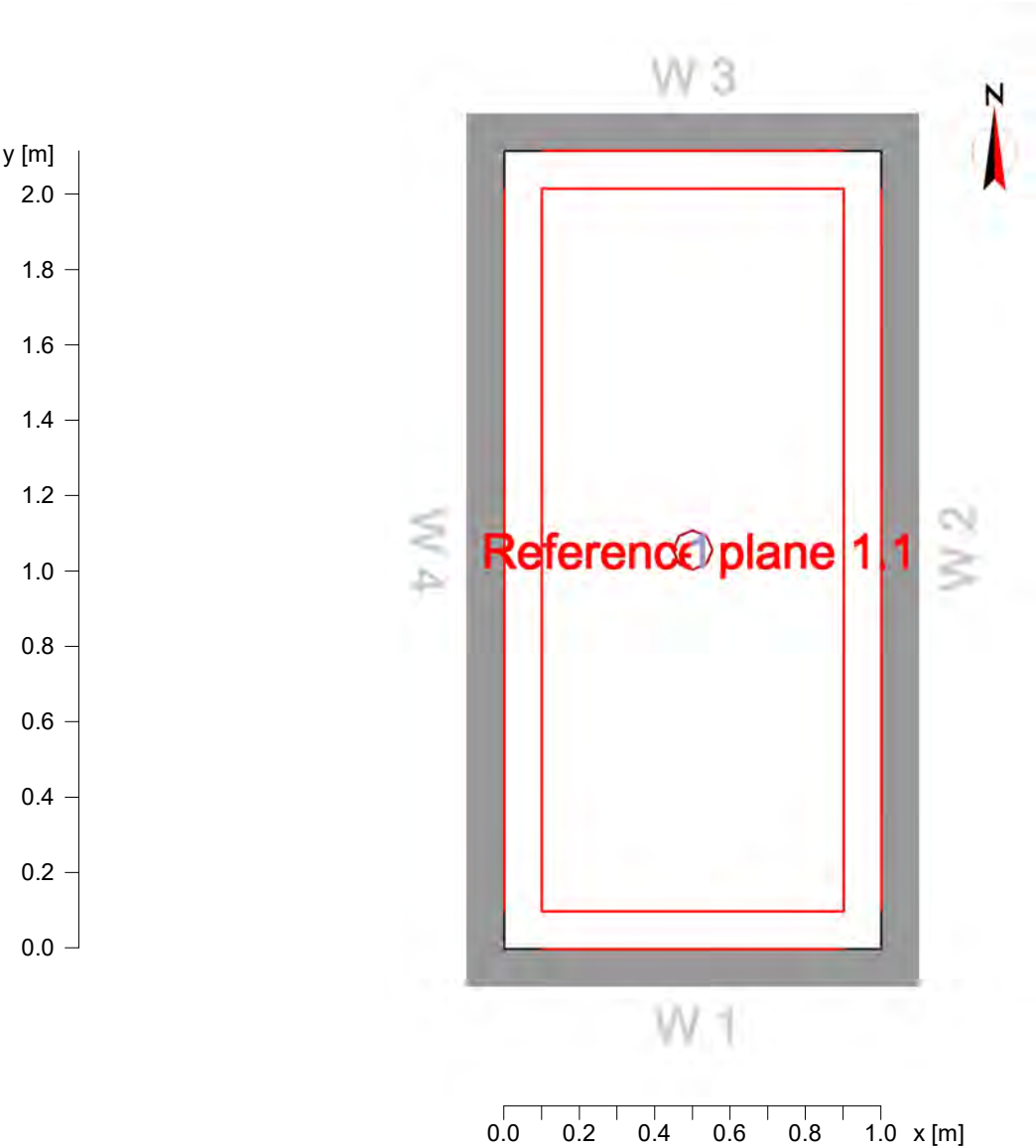
Type No.\Make

11	1 x		iGuzzini
			Order No. : LSEVO-AAH6HS
			Luminaire name : Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
			Equipment : 1 x LED / 17W 19.2 W / 2240 lm

15 WC 3

15.1 Description, WC 3

15.1.1 Floor plan

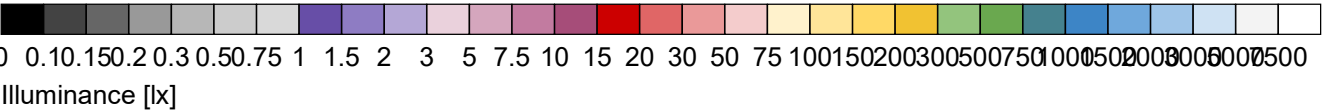
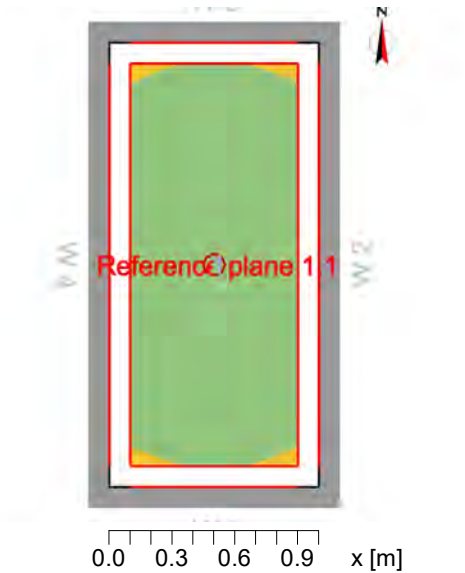


Wall	x	y	Length	Area[m²]	Reflectance
1	213.82 m	141.33 m	1.00 m	2.40	50.0 %
2	213.82 m	143.44 m	2.12 m	5.08	50.0 %
3	212.82 m	143.44 m	1.00 m	2.40	50.0 %
4	212.82 m	141.33 m	2.12 m	5.08	50.0 %
Floor:				2.1	20.0 %
Ceiling:				2.1	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		5.1 m³			

15 WC 3

15.2 Summary, WC 3

15.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	2240.00 lm
Luminaire luminous flux	2105.05 lm
Total power	19.2 W
Total power per area (2.12 m²)	9.08 W/m² (2.22 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	408 lx	115 lx
E_{min}	306 lx	92 lx
$E_{min}/\bar{E}_m (U_o)$	0.75	0.80
$E_{min}/E_{max} (U_d)$	0.63	
E_z/E_h		0.22
Position	0.00 m	0.45 m
RUG (0.9H 1.8H)	10.0	

Luminaire :
(Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standard no cable - Black - Matte White - 19.2W 2110lm)
Hints:
- Encountered room dimensions less than 2H. RUG value has been set to 10 as lower limit.

Major surfaces

	$\bar{E}_m$	U_o
M 1.9 (Ceiling)	43 lx	0.76
M 1.5 (Wall)	93 lx	0.32
M 1.6 (Wall)	158 lx	0.19

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



15 WC 3

15.2 Summary, WC 3

15.2.1 Result overview, Evaluation area 1

M 1.7 (Wall)	93 lx	0.32
M 1.8 (Wall)	159 lx	0.19

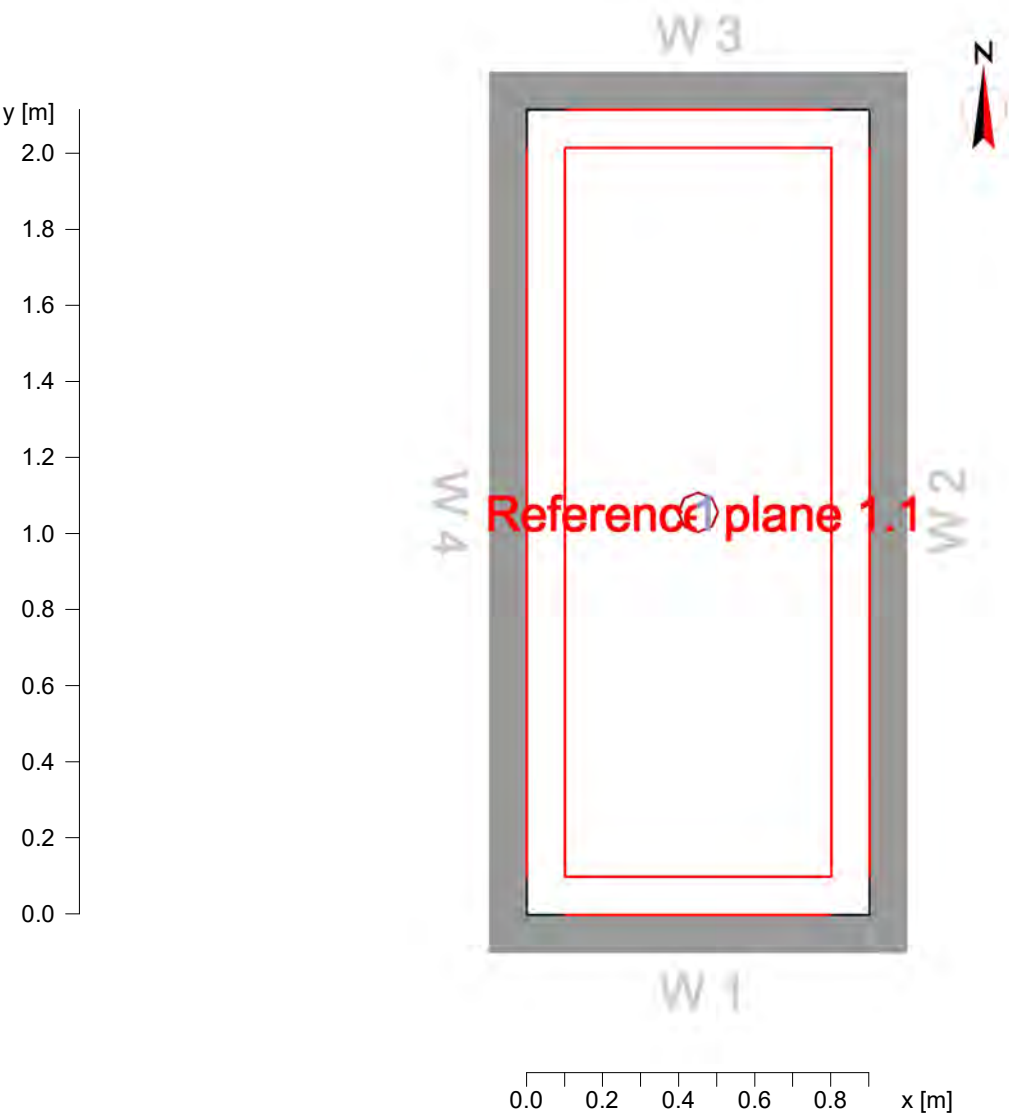
Type No.\Make

11	1 x		iGuzzini
			Order No. : LSEVO-AAH6HS
			Luminaire name : Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
			Equipment : 1 x LED / 17W 19.2 W / 2240 lm

16 Cleaners

16.1 Description, Cleaners

16.1.1 Floor plan

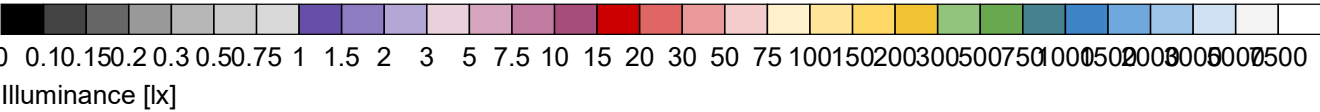
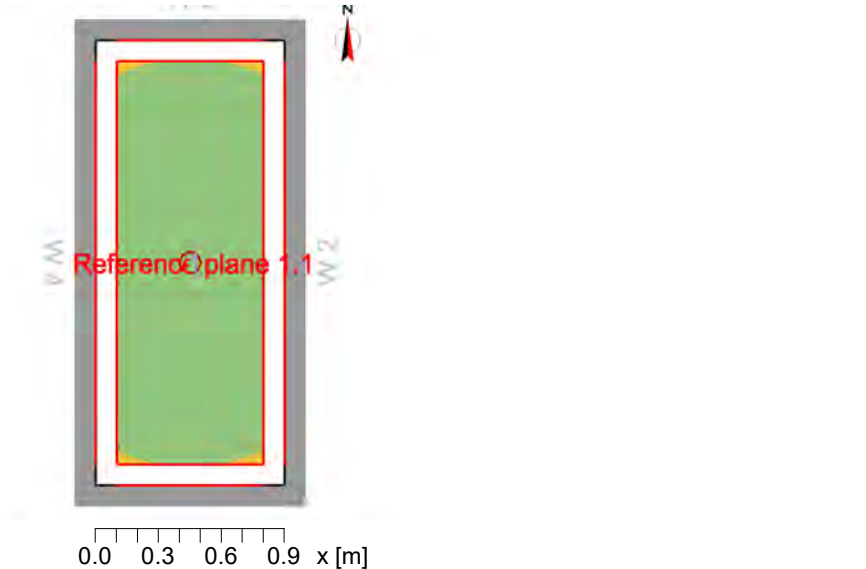


Wall	x	y	Length	Area[m²]	Reflectance
1	212.72 m	141.33 m	0.90 m	2.16	50.0 %
2	212.72 m	143.44 m	2.12 m	5.08	50.0 %
3	211.82 m	143.44 m	0.90 m	2.16	50.0 %
4	211.82 m	141.33 m	2.12 m	5.08	50.0 %
Floor:				1.9	20.0 %
Ceiling:				1.9	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		4.6 m³			

16 Cleaners

16.2 Summary, Cleaners

16.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.40 m
Maintenance factor	0.80
Total lamp luminous flux	2240.00 lm
Luminaire luminous flux	2105.05 lm
Total power	19.2 W
Total power per area (1.90 m²)	10.08 W/m² (2.44 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	414 lx	117 lx
E_{min}	309 lx	94 lx
$E_{min}/\bar{E}_m (U_o)$	0.75	0.81
$E_{min}/E_{max} (U_d)$	0.63	
E_z/E_h		0.21
Position	0.00 m	0.45 m
RUG (0.8H 1.8H)	10.0	

Luminaire :
(Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standard no cable - Black - Matte White - 19.2W 2110lm)
Hints:
- Encountered room dimensions less than 2H. RUG value has been set to 10 as lower limit.

Major surfaces

	$\bar{E}_m$	U_o
M 1.8 (Ceiling)	47 lx	0.73
M 1.4 (Wall)	98 lx	0.34
M 1.5 (Wall)	172 lx	0.19

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



16 Cleaners

16.2 Summary, Cleaners

16.2.1 Result overview, Evaluation area 1

M 1.6 (Wall)	98 lx	0.34
M 1.7 (Wall)	172 lx	0.19

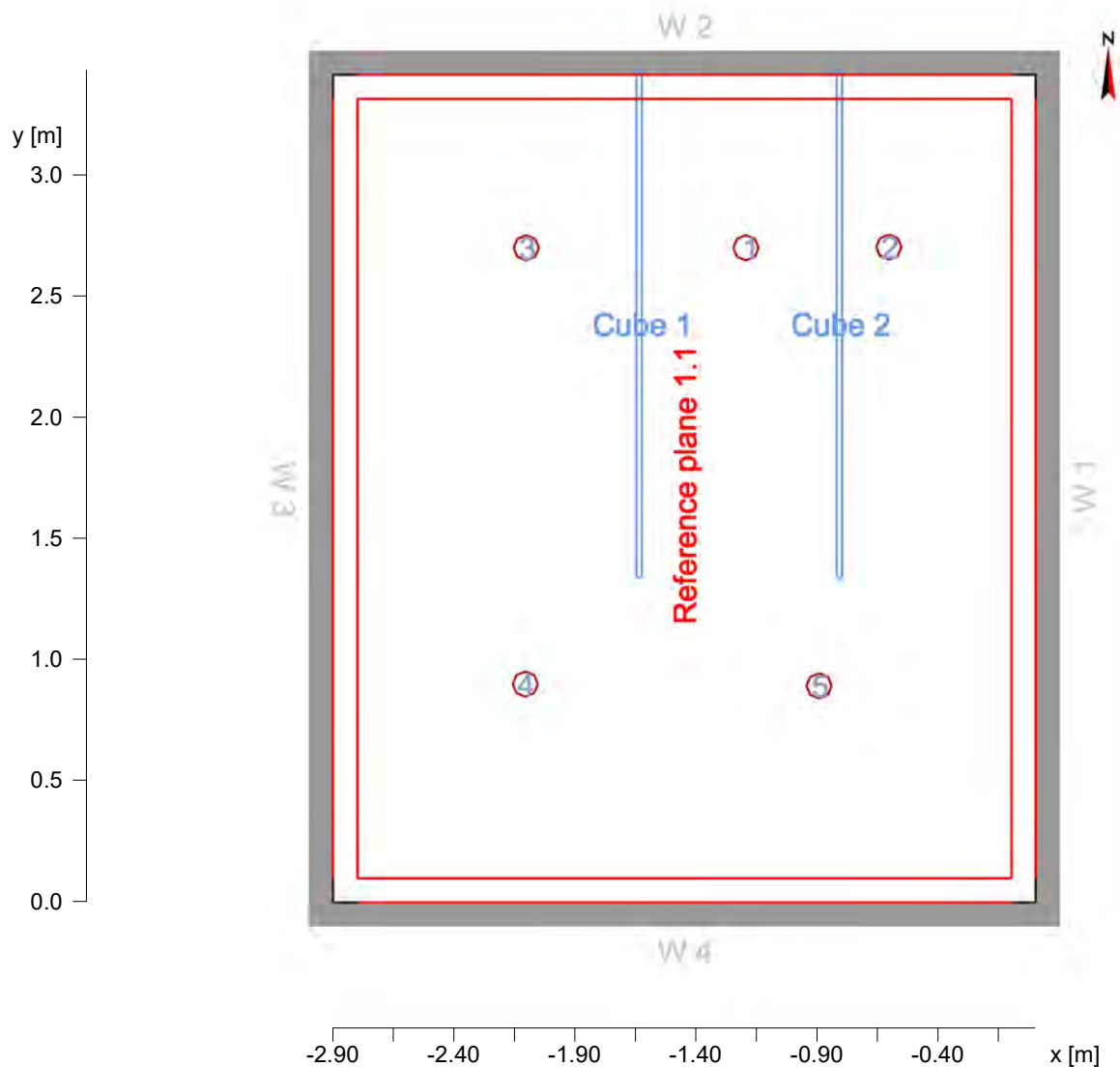
Type No.\Make

11	1 x		iGuzzini
			Order No. : LSEVO-AAH6HS
			Luminaire name : Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
			Equipment : 1 x LED / 17W 19.2 W / 2240 lm

17 WC

17.1 Description, WC

17.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	211.72 m	143.44 m	3.42 m	8.20	50.0 %
2	208.82 m	143.44 m	2.90 m	6.96	50.0 %
3	208.82 m	140.03 m	3.42 m	8.20	50.0 %
4	211.72 m	140.03 m	2.90 m	6.96	50.0 %
Floor:				9.9	20.0 %
Ceiling:				9.9	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		23.8 m³			

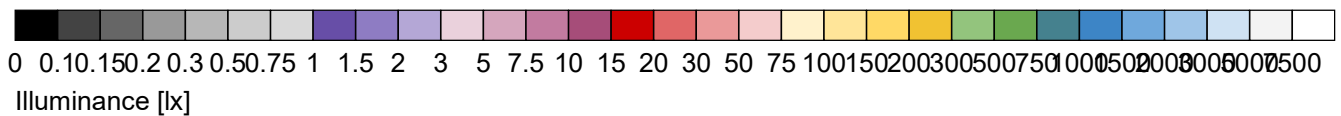
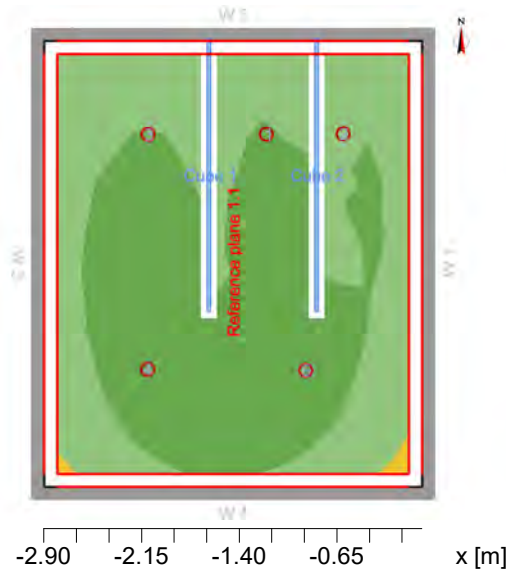
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



17 WC

17.2 Summary, WC

17.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (9.91 m²)

11200.00 lm
 10525.23 lm
 96.0 W
 9.69 W/m² (1.86 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	521 lx	136 lx
E_{min}	338 lx	100 lx
$E_{min}/\bar{E}_m (U_o)$	0.65	0.73
$E_{min}/E_{max} (U_d)$	0.46	
E_z/E_h		0.22
Position	0.00 m	0.45 m
RUG (2.5H 3.0H)	<=18.3	

Luminaire :

(Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standard no cable - Black - Matte White - 19.2W 2110lm)

Major surfaces

	$\bar{E}_m$	U_o
M 1.5 (Ceiling)	69 lx	0.67
M 1.1 (Wall)	150 lx	0.28
M 1.2 (Wall)	169 lx	0.28
M 1.3 (Wall)	131 lx	0.31
M 1.4 (Wall)	122 lx	0.35

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



17 WC

17.2 Summary, WC

17.2.1 Result overview, Evaluation area 1

Type No. Make

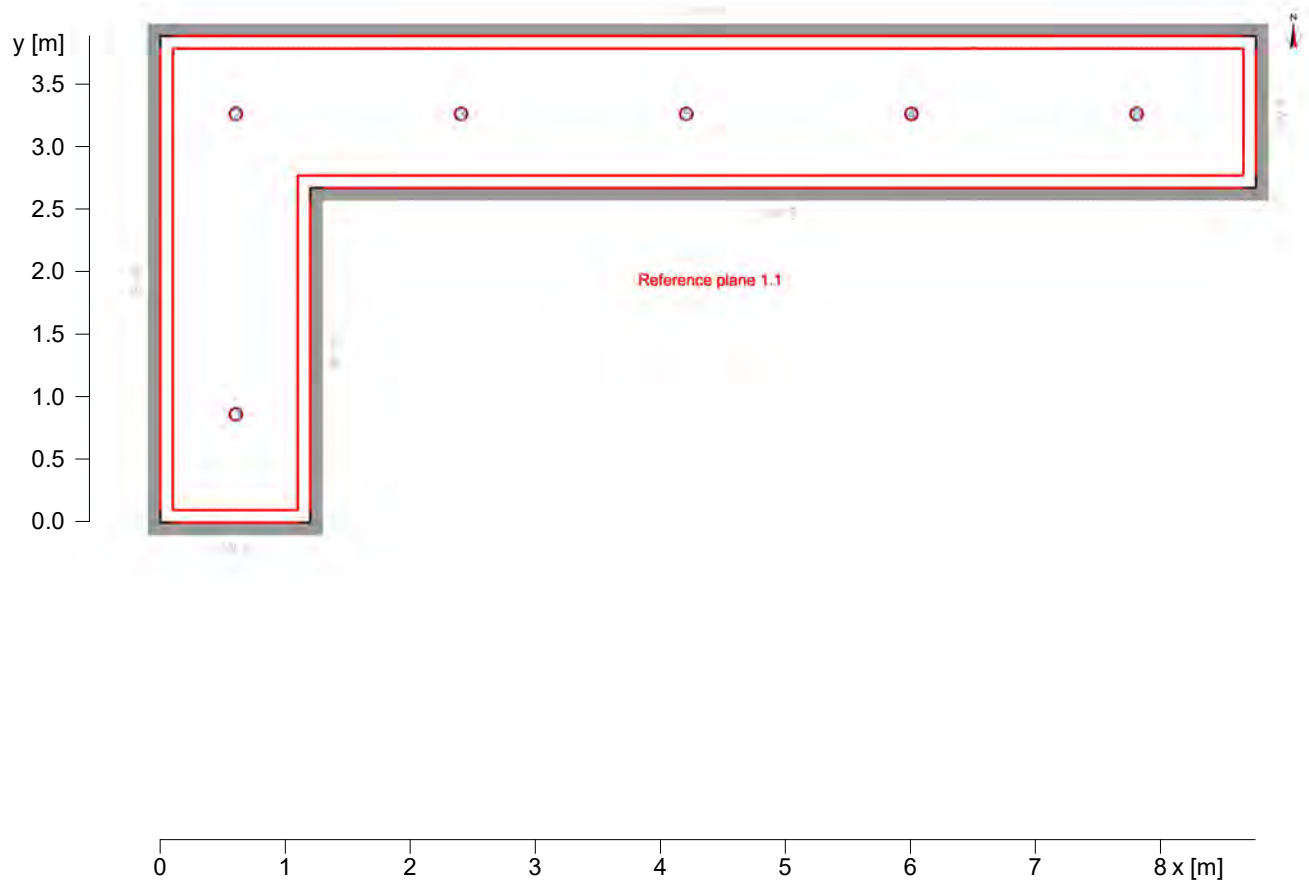
11	5 x	iGuzzini	
		Order No.	: LSEVO-AAH6HS
		Luminaire name	: Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
		Equipment	: 1 x LED / 17W 19.2 W / 2240 lm



18 Stairs/ Circulation

18.1 Description, Stairs/ Circulation

18.1.1 Floor plan



Wall	x	y	Length	Area[m²]	Reflectance
1	216.42 m	143.54 m	1.20 m	2.88	50.0 %
2	216.42 m	146.21 m	2.67 m	6.42	50.0 %
3	223.98 m	146.21 m	7.56 m	18.14	50.0 %
4	223.98 m	147.43 m	1.21 m	2.91	50.0 %
5	215.22 m	147.43 m	8.76 m	21.02	50.0 %
6	215.22 m	143.54 m	3.89 m	9.33	50.0 %
Floor:				13.8	20.0 %
Ceiling:				13.8	70.0 %
Room height [m]:		2.40 m			
Height of ref. plane [m]:		0.00 m			
Volume		33.2 m³			

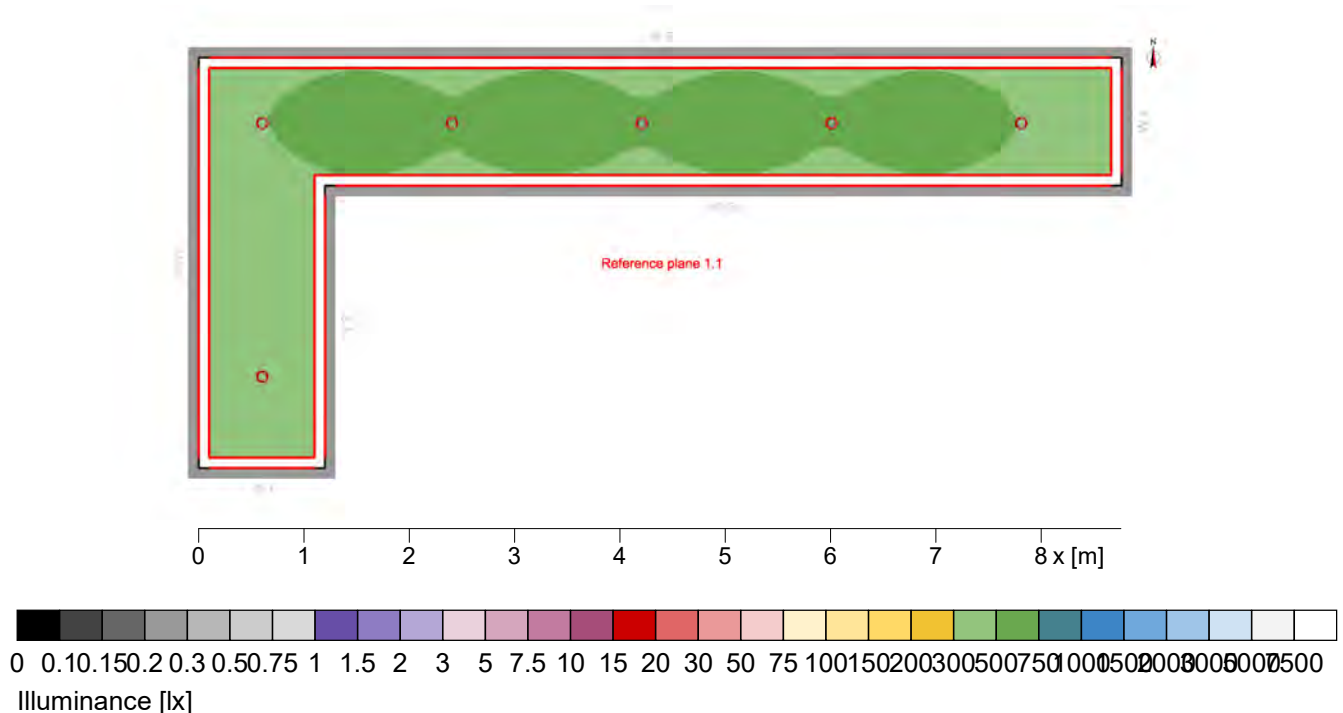
Object : Lighting Calculation
 Installation : Volvo General Scheme
 Project number : 25-13608-K3G0
 Date : 04.09.2026



18 Stairs/ Circulation

18.2 Summary, Stairs/ Circulation

18.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.40 m
 0.80

Total lamp luminous flux
 Luminaire luminous flux
 Total power
 Total power per area (13.83 m²)

13440.00 lm
 12630.28 lm
 115.2 W
 8.33 W/m² (1.72 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	483 lx	133 lx
E_{min}	324 lx	85 lx
$E_{min}/\bar{E}_m (U_o)$	0.67	0.64
$E_{min}/E_{max} (U_d)$	0.55	
E_z/E_h		0.23
Position	0.00 m	0.45 m
RUG (--- ---)	---	

Hints:
 - Room dimensions deviate too much from a rectangular room.

Major surfaces

	$\bar{E}_m$	U_o
M 1.11 (Ceiling)	56 lx	0.51
M 1.3 (Wall)	119 lx	0.23
M 1.5 (Wall)	121 lx	0.22
M 1.7 (Wall)	157 lx	0.19

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



18 Stairs/ Circulation

18.2 Summary, Stairs/ Circulation

18.2.1 Result overview, Evaluation area 1

M 1.8 (Wall)	108 lx	0.30
M 1.9 (Wall)	154 lx	0.20
M 1.10 (Wall)	135 lx	0.22

Type No.\Make

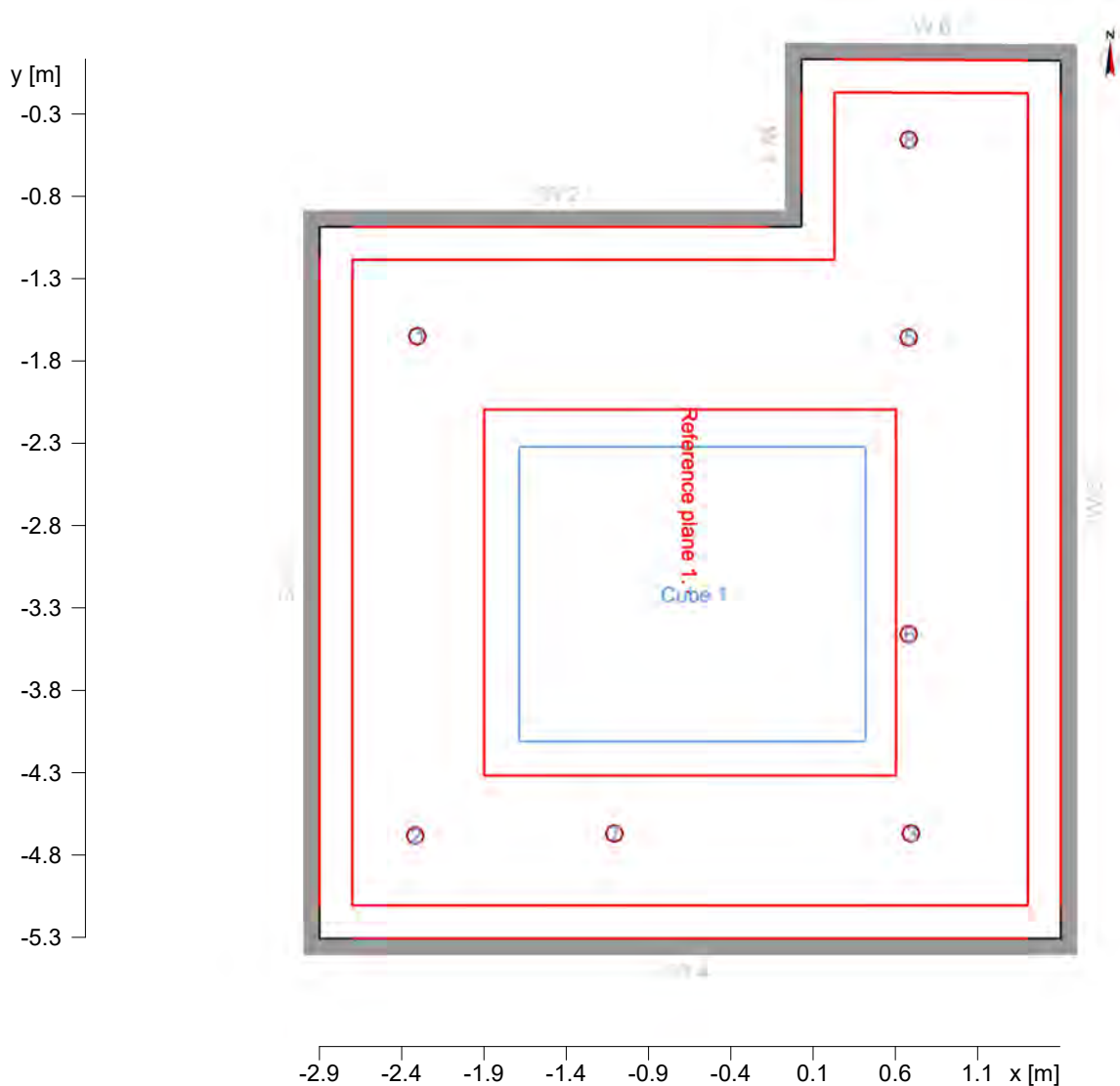
11	6 x	iGuzzini	
		Order No.	: LSEVO-AAH6HS
		Luminaire name	: Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
		Equipment	: 1 x LED / 17W 19.2 W / 2240 lm



19 Stairs

19.1 Description, Stairs

19.1.1 Floor plan

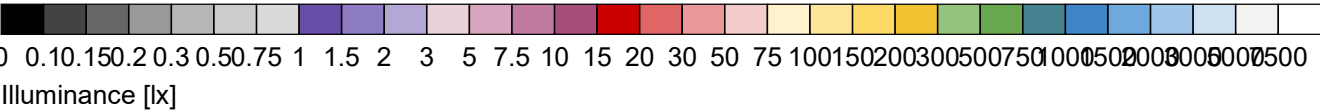
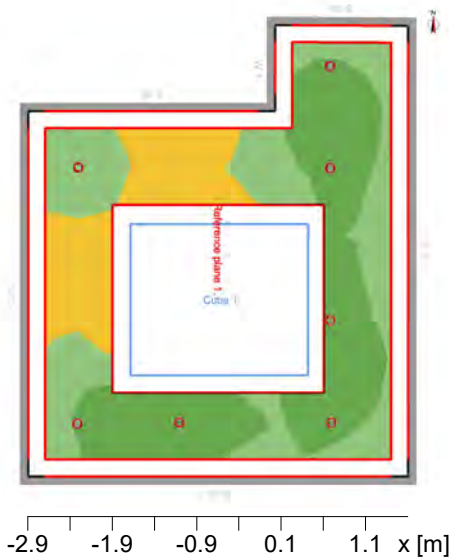


Wall	x	y	Length	Area[m²]	Reflectance
1	211.75 m	115.78 m	1.02 m	2.85	50.0 %
2	208.82 m	115.78 m	2.93 m	8.19	50.0 %
3	208.82 m	111.46 m	4.32 m	12.09	50.0 %
4	213.32 m	111.46 m	4.50 m	12.60	50.0 %
5	213.32 m	116.79 m	5.33 m	14.91	50.0 %
6	211.75 m	116.79 m	1.57 m	4.41	50.0 %
Floor:				21.0	20.0 %
Ceiling:				21.0	70.0 %
Room height [m]:		2.80 m			
Height of ref. plane [m]:		0.00 m			
Volume		58.9 m³			

19 Stairs

19.2 Summary, Stairs

19.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.80 m
Maintenance factor	0.80
Total lamp luminous flux	15680.00 lm
Luminaire luminous flux	14735.32 lm
Total power	134.4 W
Total power per area (21.02 m²)	6.39 W/m² (1.50 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal	cylindrical
$\bar{E}_m$	428 lx	112 lx
E_{min}	211 lx	68 lx
$E_{min}/\bar{E}_m (U_o)$	0.49	0.60
$E_{min}/E_{max} (U_d)$	0.34	
E_z/E_h		0.23
Position	0.00 m	0.45 m
RUG (2.9H 3.5H)	≤ 18.3	

Luminaire : (Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standard no cable - Black - Matte White - 19.2W 2110lm)

Major surfaces

	$\bar{E}_m$	U_o
M 1.9 (Ceiling)	54 lx	0.69
M 1.3 (Wall)	202 lx	0.19
M 1.4 (Wall)	94 lx	0.32
M 1.5 (Wall)	122 lx	0.26
M 1.6 (Wall)	175 lx	0.28

Object : Lighting Calculation
Installation : Volvo General Scheme
Project number : 25-13608-K3G0
Date : 04.09.2026



19 Stairs

19.2 Summary, Stairs

19.2.1 Result overview, Evaluation area 1

M 1.7 (Wall)	140 lx	0.32
M 1.8 (Wall)	204 lx	0.19

Type No.\Make

11	7 x		iGuzzini
			Order No. : LSEVO-AAH6HS
			Luminaire name : Laser Evo - Recessed - Cone - Fix - CRI90 - 3000K - Reflector - WF - Wide Flood - DALI-2 - Integral - 96 mm - Class II - Standar
			Equipment : 1 x LED / 17W 19.2 W / 2240 lm

Lighting Calculation

Installation : Volvo External Generic Scheme

Project number : LP-N6N0-Q5K9G8

Customer : Volvo Ireland

Processed by : Freddy Lacaze

Date : 11.09.2026

Project description:
REV 0

MF 0.8

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

Object : Lighting Calculation
Installation : Volvo External Generic Scheme
Project number : LP-N6N0-Q5K9G8
Date : 11.09.2026



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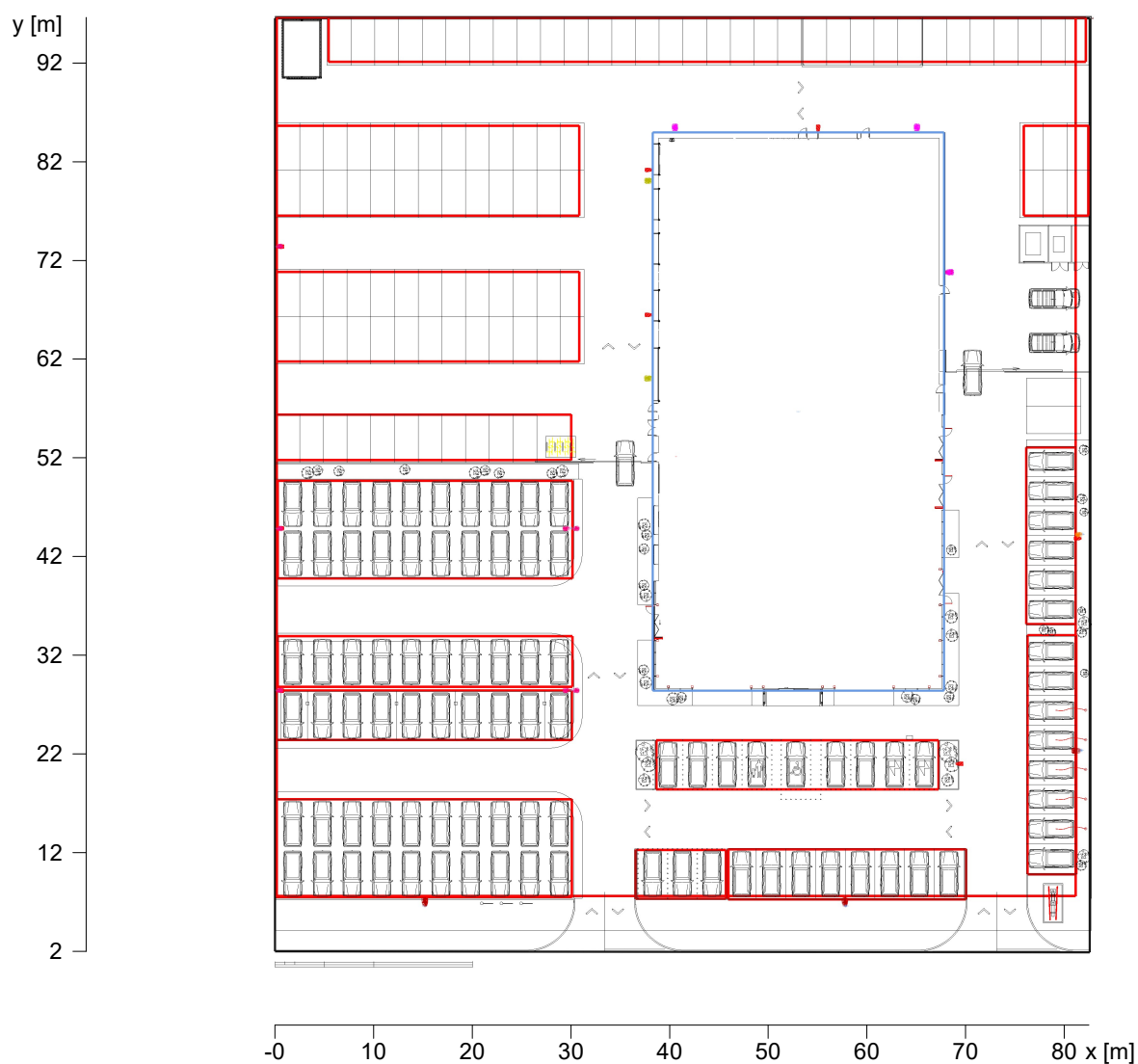
Object : Lighting Calculation
Installation : Volvo External Generic Scheme
Project number : LP-N6N0-Q5K9G8
Date : 11.09.2026



1 Exterior 1

1.1 Description, Exterior 1

1.1.1 Floor plan

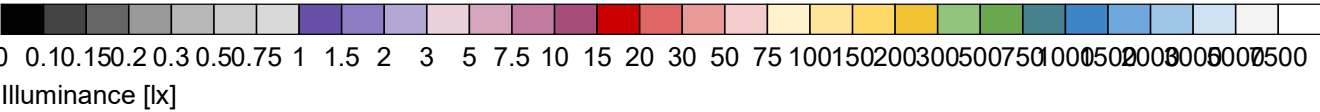
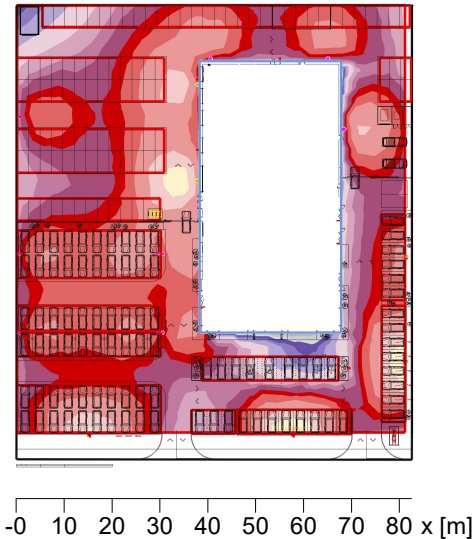




1 Exterior 1

1.2 Summary, Exterior 1

1.2.1 Result overview, Measuring area 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux	197760 lm
Total power	1601.6 W
Total power per area (7792.14 m²)	0.21 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	21.5 lx
Minimum illuminance	E_{min}	0.5 lx
Maximum illuminance	E_{max}	85.9 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:42 (0.02)
Diversity U_d	E_{min}/E_{max}	1:168 (0.01)

Type No. Make

1		2 x		iGuzzini	
				Order No.	: ED93
				Luminaire name	: Wow
				Equipment	: 1 x LED 162.3 W / 20340 lm
		2		3 x	
				Order No.	: ED79
				Luminaire name	: Wow
				Equipment	: 1 x LED 101.2 W / 13110 lm

Object : Lighting Calculation
Installation : Volvo External Generic Scheme
Project number : LP-N6N0-Q5K9G8
Date : 11.09.2026



1 Exterior 1

1.2 Summary, Exterior 1

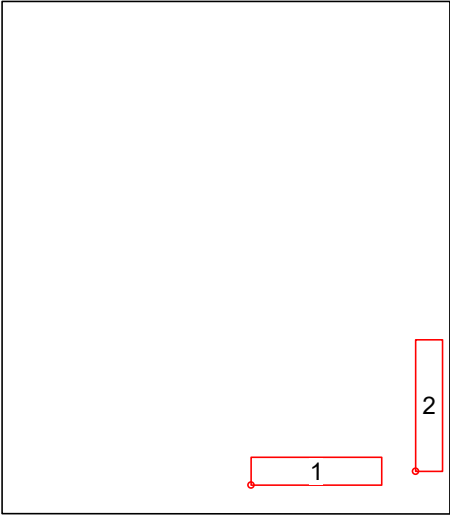
1.2.1 Result overview, Measuring area 1

3	1 x	Order No.	: EC50
		Luminaire name	: Wow
		Equipment	: 1 x LED 62.9 W / 7800 lm
4	7 x	Order No.	: EC56
		Luminaire name	: Wow
		Equipment	: 1 x LED 74.7 W / 8820 lm
5	3 x	Order No.	: ED85
		Luminaire name	: Wow
		Equipment	: 1 x LED 129.2 W / 16070 lm



1.2 Summary, Exterior 1

1.2.2 Result overview, Demo Cars (1)



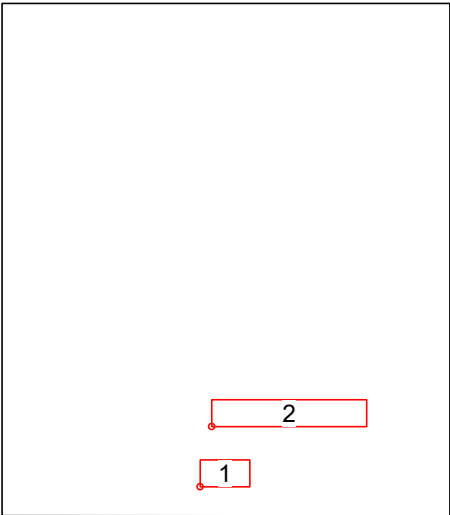
Horizontal illuminance

No.	Measuring surface	Grid	$\bar{E}_m$	E_{min}	E_{max}	U_o	U_d
1.1	M 1.1	43 x 9	50 lx	15 lx	119 lx	0.30	0.13
1.2	M 1.2	9 x 45	53 lx	13 lx	120 lx	0.24	0.11
Summary			52 lx	13 lx	120 lx	0.25	0.11



1.2 Summary, Exterior 1

1.2.3 Result overview, Customer (2)



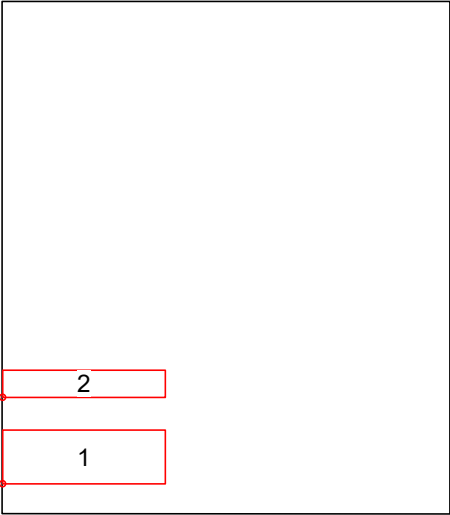
Horizontal illuminance

No.	Measuring surface	Grid	$\bar{E}_m$	E_{min}	E_{max}	U_o	U_d
2.1	M 2.1	10 x 6	7.9 lx	5.1 lx	13.7 lx	0.64	0.37
2.2	M 2.2	52 x 9	5.1 lx	1.4 lx	16.8 lx	0.27	0.08
Summary			5.8 lx	1.4 lx	16.8 lx	0.24	0.08



1.2 Summary, Exterior 1

1.2.4 Result overview, Select (3)



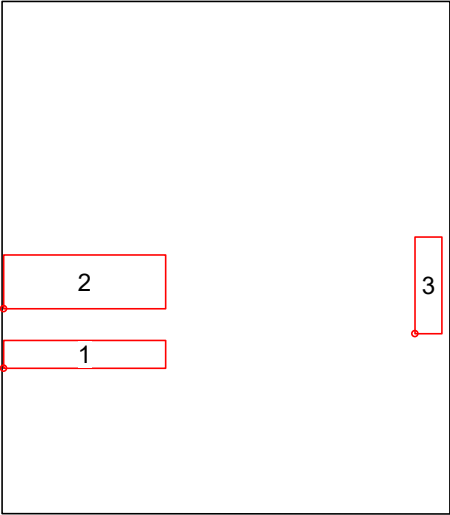
Horizontal illuminance

No.	Measuring surface	Grid	$\bar{E}_m$	E_{min}	E_{max}	U_o	U_d
3.1	M 3.1	31 x 10	30 lx	8.5 lx	86 lx	0.28	0.10
3.2	M 3.2	54 x 9	23.4 lx	7.9 lx	33.2 lx	0.34	0.24
Summary			27.8 lx	7.9 lx	86 lx	0.29	0.09



1.2 Summary, Exterior 1

1.2.5 Result overview, Non-Franchise (4) (4)



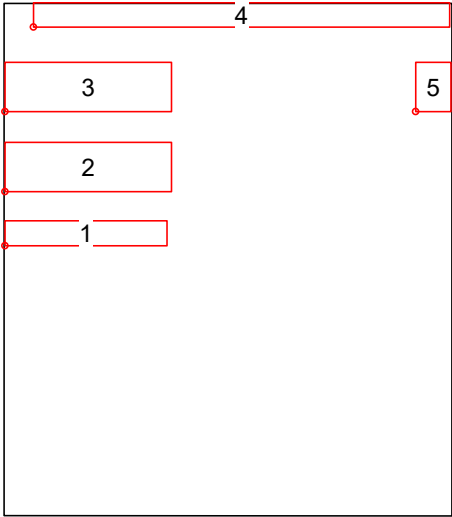
Horizontal illuminance

No.	Measuring surface	Grid	$\bar{E}_m$	E_{min}	E_{max}	U_o	U_d
4.1	M 4.1	53 x 9	25.3 lx	10.8 lx	34.1 lx	0.43	0.32
4.2	M 4.2	31 x 10	27.1 lx	10.2 lx	38.4 lx	0.38	0.27
4.3	M 4.3	9 x 33	25.3 lx	13.7 lx	40.1 lx	0.54	0.34
Summary			26.3 lx	10.2 lx	40.1 lx	0.39	0.25



1.2 Summary, Exterior 1

1.2.6 Result overview, Stock (5)



Horizontal illuminance

No.	Measuring surface	Grid	$\bar{E}_m$	E_{min}	E_{max}	U_o	U_d
5.1	M 5.1	52 x 8	18.8 lx	6.1 lx	55.2 lx	0.32	0.11
5.2	M 5.2	34 x 10	19.4 lx	5.5 lx	70.5 lx	0.28	0.08
5.3	M 5.3	34 x 10	18.1 lx	4.3 lx	54 lx	0.24	0.08
5.4	M 5.4	138 x 8	15.5 lx	2 lx	38.2 lx	0.13	0.05
5.5	M 5.5	8 x 10	10.6 lx	4.9 lx	23.2 lx	0.47	0.21
Summary			17.3 lx	2 lx	70.5 lx	0.11	0.03