

Ventspils Ganību iela

Installation : Darba apgaismojums

Project number : 1

Customer :

Processed by : Artūrs Karulis

Date : 05.02.2018

The following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergences can occur.

Guarantee claims for luminaire data are excluded.

Relux and the luminaire manufacturers accept no liability for consequential damage and damage which is occasioned to the user or to third parties.

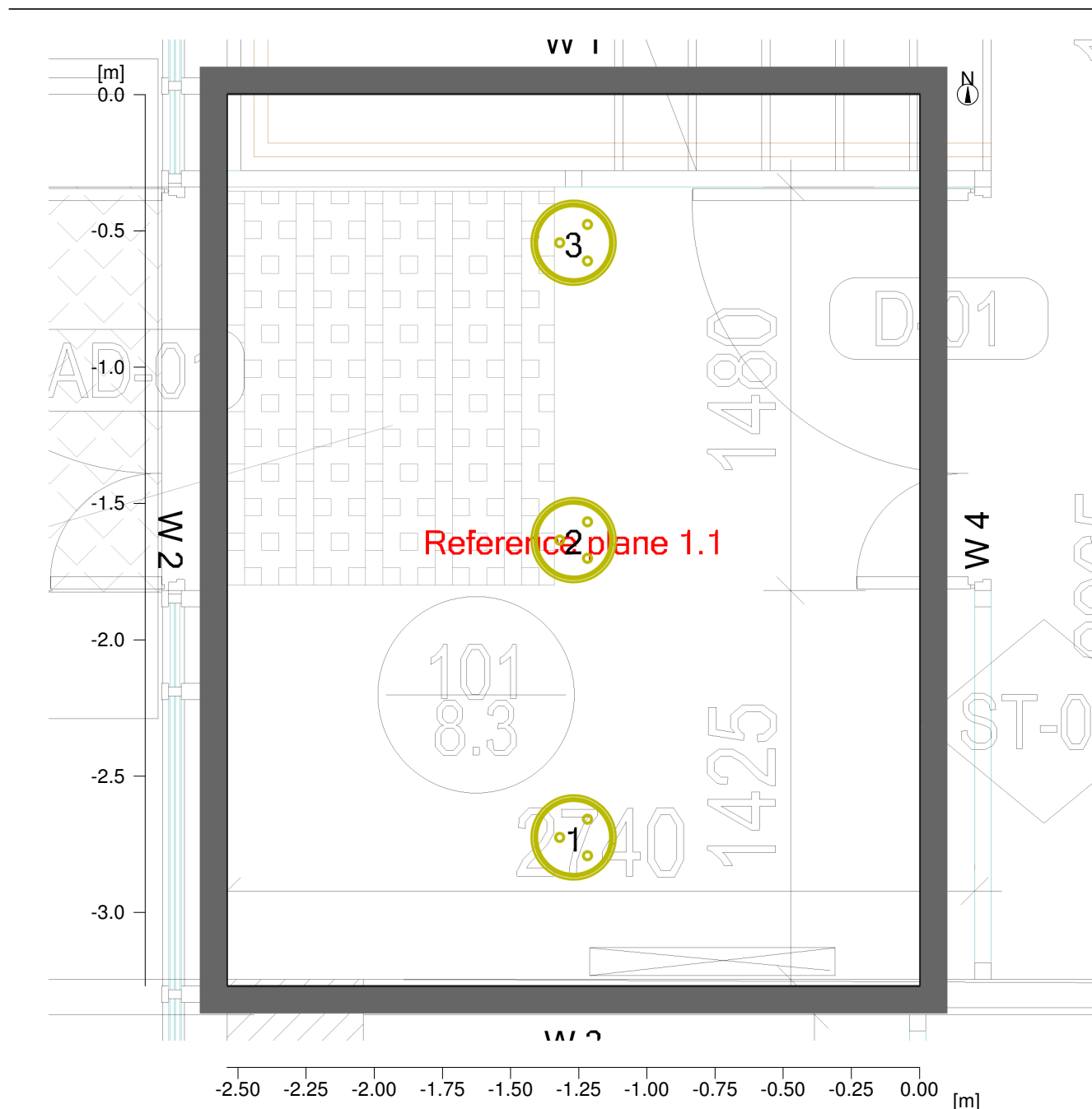
Object : Ventspils Ganību iela
 Installation : Darba apgaismojums
 Project number : 1
 Date : 05.02.2018

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1 101

1.1 Description, 101

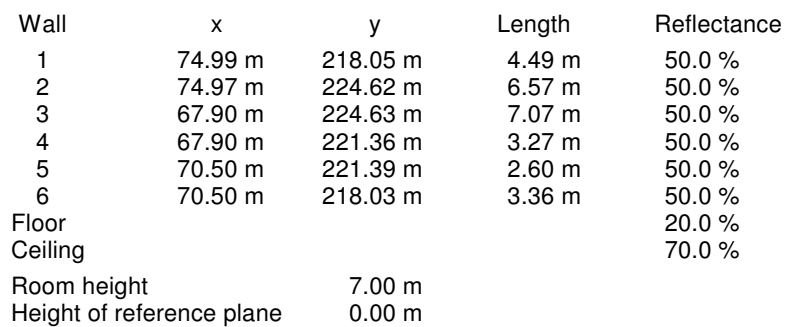
1.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	67.90 m	221.30 m	2.54 m	50.0 %
2	67.90 m	218.03 m	3.27 m	50.0 %
3	70.44 m	218.03 m	2.54 m	50.0 %
4	70.44 m	221.30 m	3.27 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.80 m		
Height of reference plane		0.00 m		

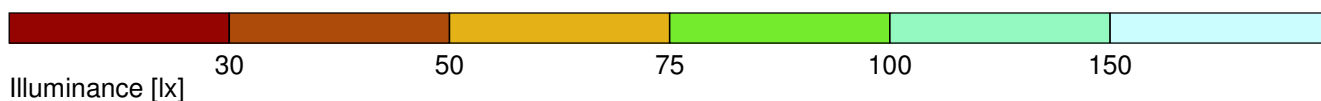
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2.1.1 Floor plan



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2.2.1 Result overview, Evaluation area 1



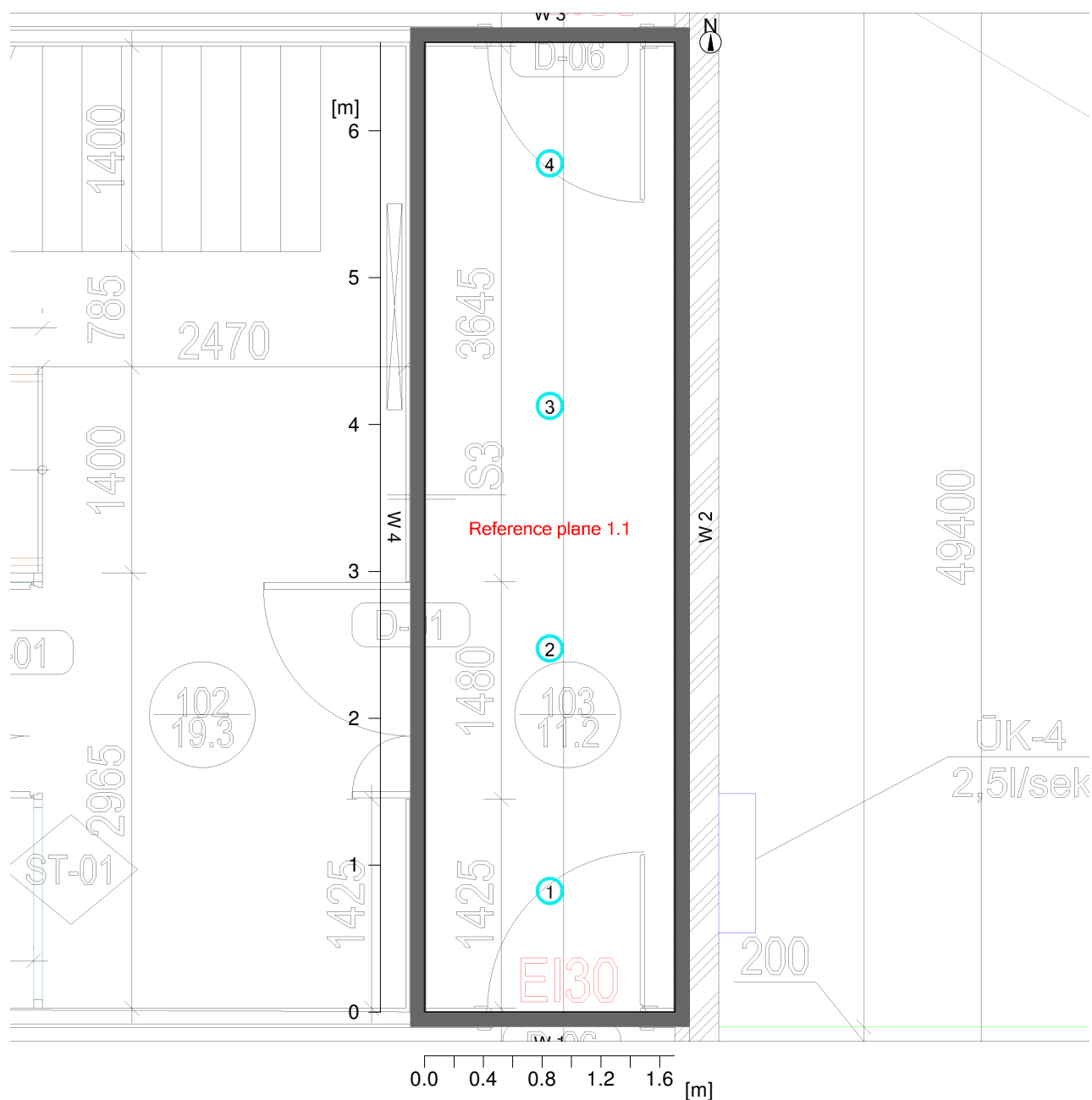
26000.00 lm
218.0 W
5.75 W/m² (8.04 W/m²/100lx)

Em	71.4 lx	(>= 100 lx)
Emin	0 lx	
Emin/Eav (Uo)	---	(>= 0.40)
Emin/Emax (Ud)	---	
Position	0.00 m	

Order No. : 6334951
Luminaire name : PolaronIQ H2D LED2000-840 2,0m
Equipment : 1 x 17 W / 2000 lm

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3.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	75.00 m	218.03 m	1.70 m	50.0 %
2	75.00 m	224.63 m	6.60 m	50.0 %
3	73.30 m	224.63 m	1.70 m	50.0 %
4	73.30 m	218.03 m	6.60 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.00 m		

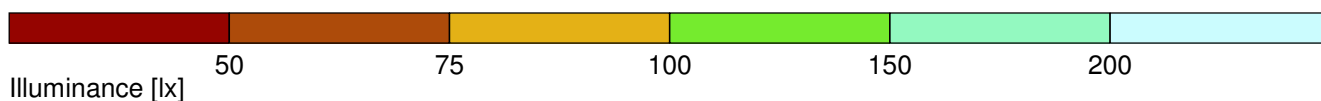
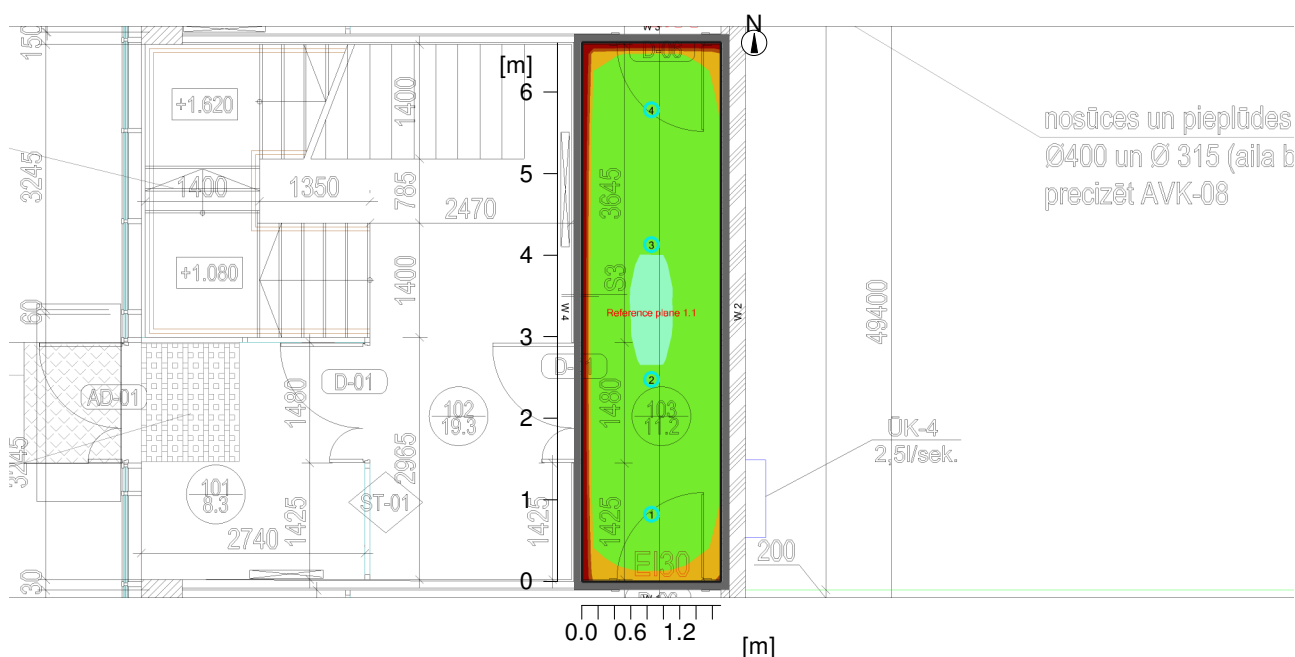
Object : Ventspils Ganību iela
 Installation : Darba apgaismojums
 Project number : 1
 Date : 05.02.2018

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3 103

3.2 Summary, 103

3.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 3.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (11.22 m²)

5200.00 lm
 60.0 W
 5.35 W/m² (4.33 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

Traffic zones inside buildings
 5.1.1 (EN 12464-1, 8.2011) Circulation areas and corridors (Ra >40.00)
 Horizontal

Em 123 lx (>= 100 lx)
 Emin 88 lx
 Emin/Eav (Uo) 0.71 (>= 0.40)
 Emin/Emax (Ud) 0.61
 UGR (0.9H 3.7H) <=24.9 (< 28.00)
 Position 0.00 m

Type No.\Make

16 4



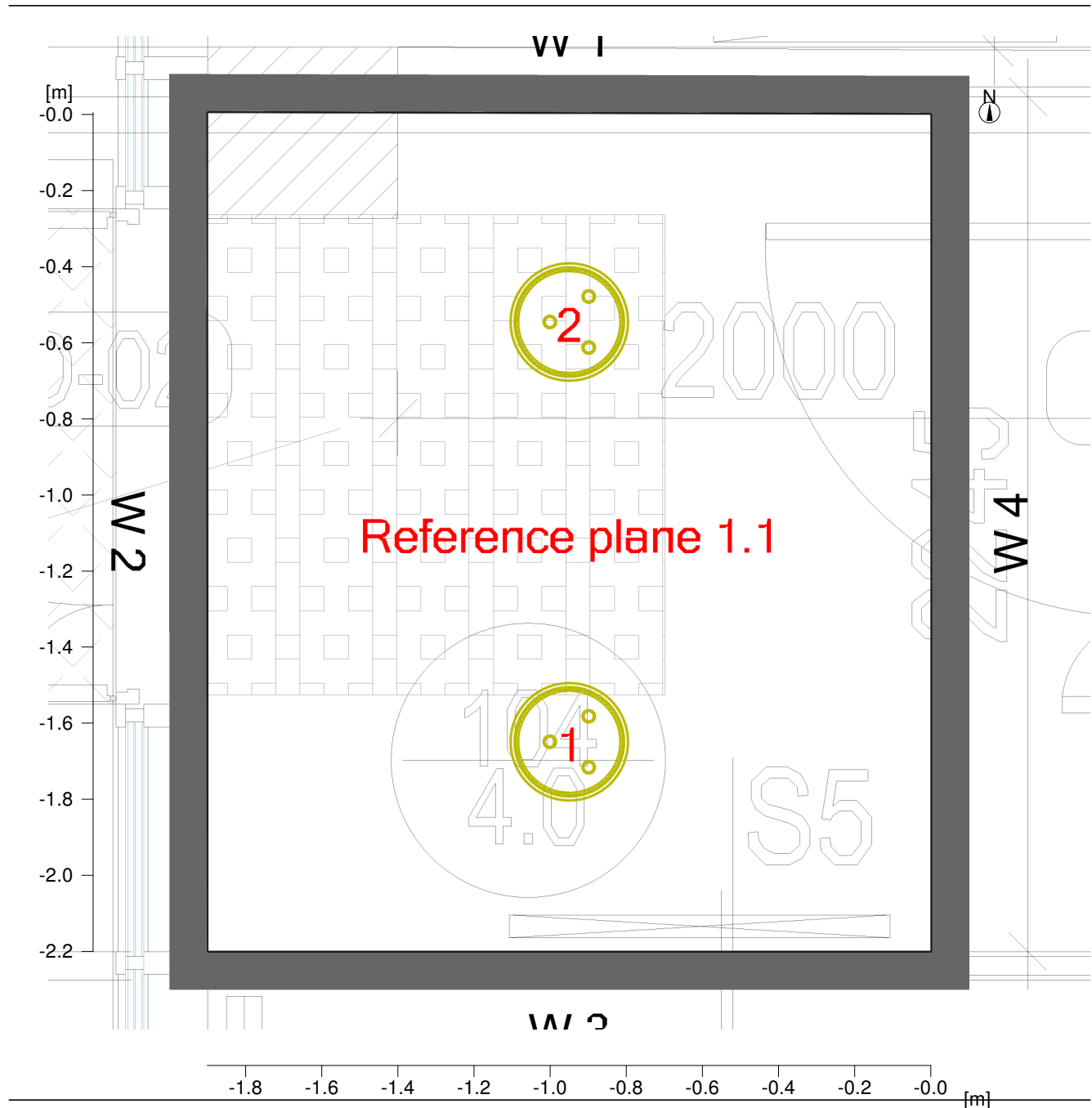
TRILUX

Order No. : 6864740
 Luminaire name : Aviella C05 OA 1200-840 01
 Equipment : 1 x 15 W / 1300 lm

4 104

4.1 Description, 104

4.1.1 Floor plan

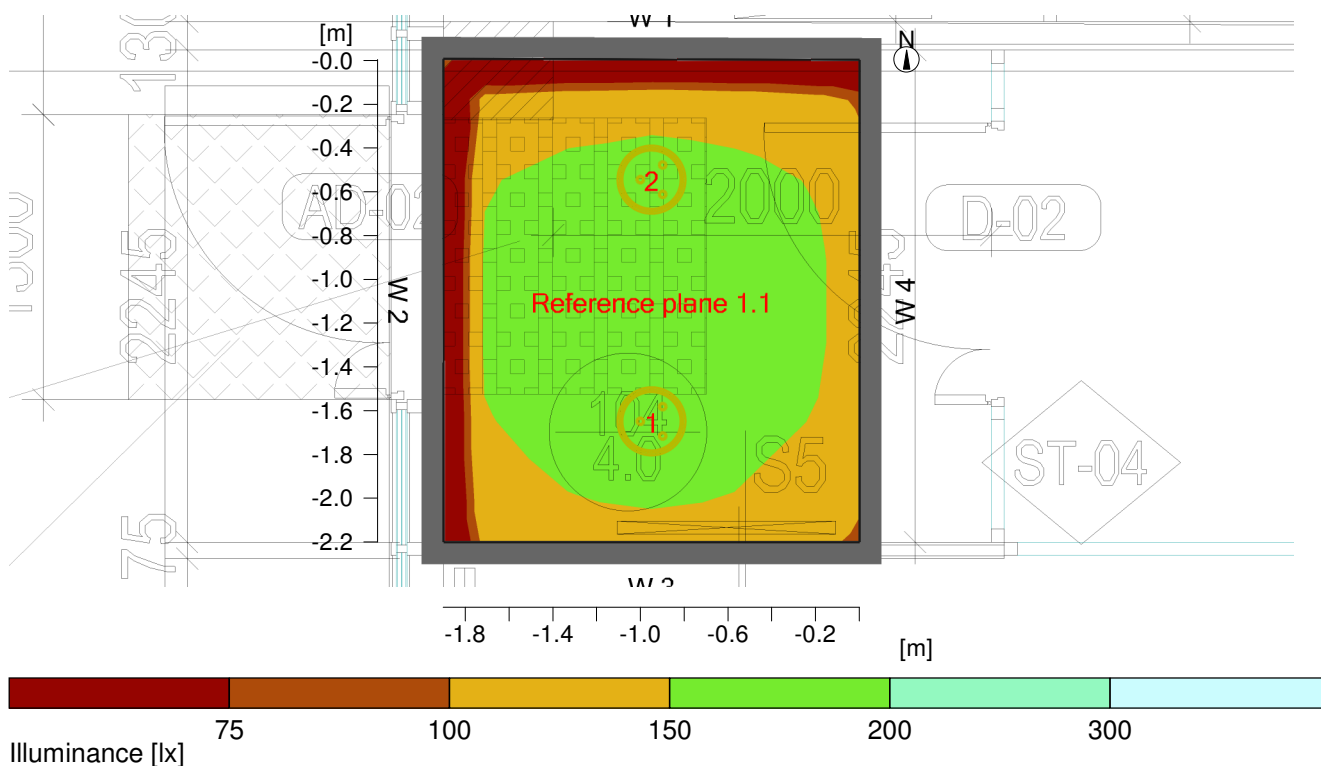


Wall	x	y	Length	Reflectance
1	67.90 m	217.89 m	1.90 m	50.0 %
2	67.90 m	215.68 m	2.20 m	50.0 %
3	69.80 m	215.68 m	1.90 m	50.0 %
4	69.80 m	217.88 m	2.20 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

4 104

4.2 Summary, 104

4.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.50 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (4.19 m²)

3000.00 lm
 30.0 W
 7.17 W/m² (4.90 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

Traffic zones inside buildings
 5.1.1 (EN 12464-1, 8.2011) Circulation areas and corridors (Ra >40.00)
 Horizontal

Em 146 lx (>= 100 lx)
 Emin 109 lx
 Emin/Eav (Uo) 0.74 (>= 0.40)
 Emin/Emax (Ud) 0.62
 UGR (2.0H 2.0H) <=16.5 (< 28.00)
 Position 0.00 m

Type No.\Make



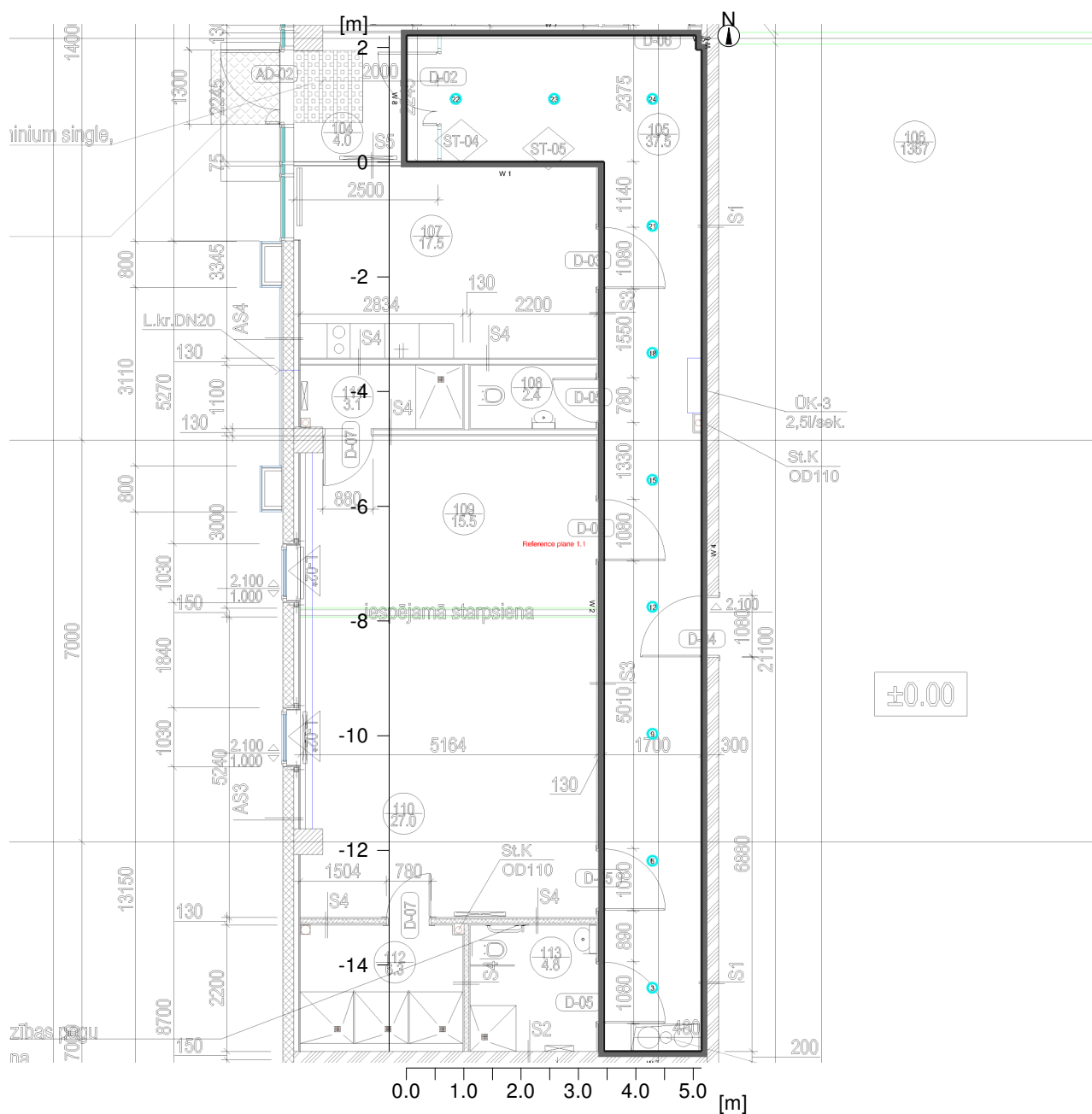
TRILUX

Order No. : 6444740
 Luminaire name : 7482 G2 LED1400-830
 Equipment : 1 x 15 W / 1500 lm

5 105

5.1 Description, 105

5.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	73.30 m	215.68 m	3.44 m	50.0 %
2	73.30 m	200.18 m	15.50 m	50.0 %
3	75.00 m	200.18 m	1.70 m	50.0 %
4	75.00 m	217.63 m	17.45 m	50.0 %
5	74.90 m	217.63 m	0.10 m	50.0 %
6	74.90 m	217.88 m	0.25 m	50.0 %
7	69.86 m	217.88 m	5.04 m	50.0 %
8	69.86 m	215.68 m	2.20 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.00 m		

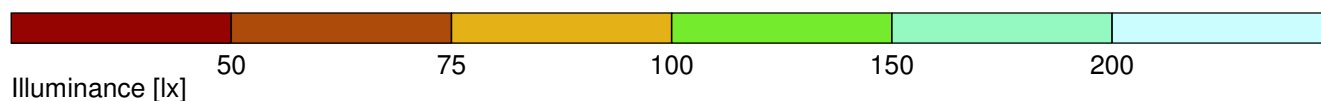
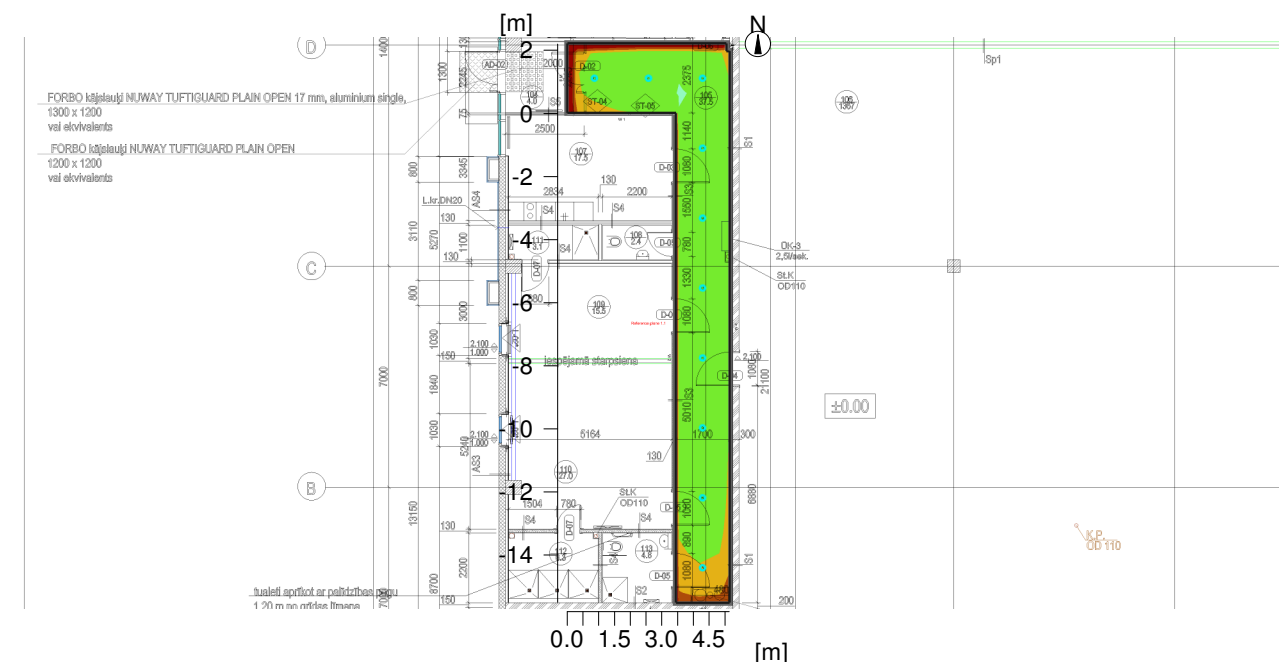
Object : Ventspils Ganību iela
Installation : Darba apgaismojums
Project number : 1
Date : 05.02.2018

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5 105

5.2 Summary, 105

5.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
Height of luminaire plane
Maintenance factor

Average indirect fraction
3.00 m
0.80

Total luminous flux of all lamps
Total power
Total power per area (37.63 m²)

13000.00 lm
150.0 W
3.99 W/m² (3.57 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

Traffic zones inside buildings

5.1.1 (EN 12464-1, 8.2011) Circulation areas and corridors (Ra >40.00)

Horizontal

Em 112 lx (>= 100 lx)
Emin 70 lx
Emin/Eav (Uo) 0.63 (>= 0.40)
Emin/Emax (Ud) 0.48
Position 0.00 m

Type No.\Make

16 10



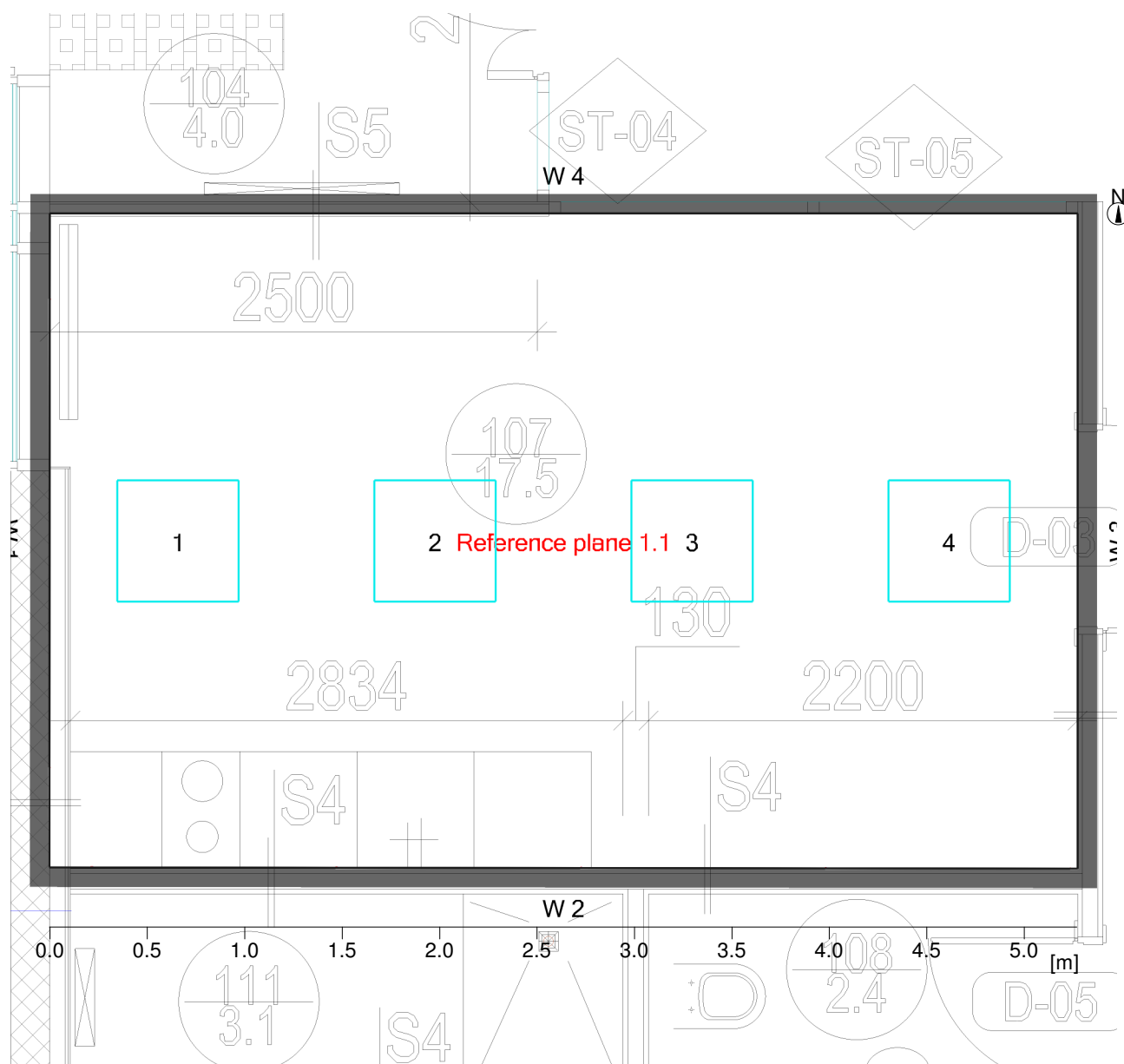
TRILUX

Order No. : 6864740
Luminaire name : Aviella C05 OA 1200-840 01
Equipment : 1 x 15 W / 1300 lm

6 107

6.1 Description, 107

6.1.1 Floor plan

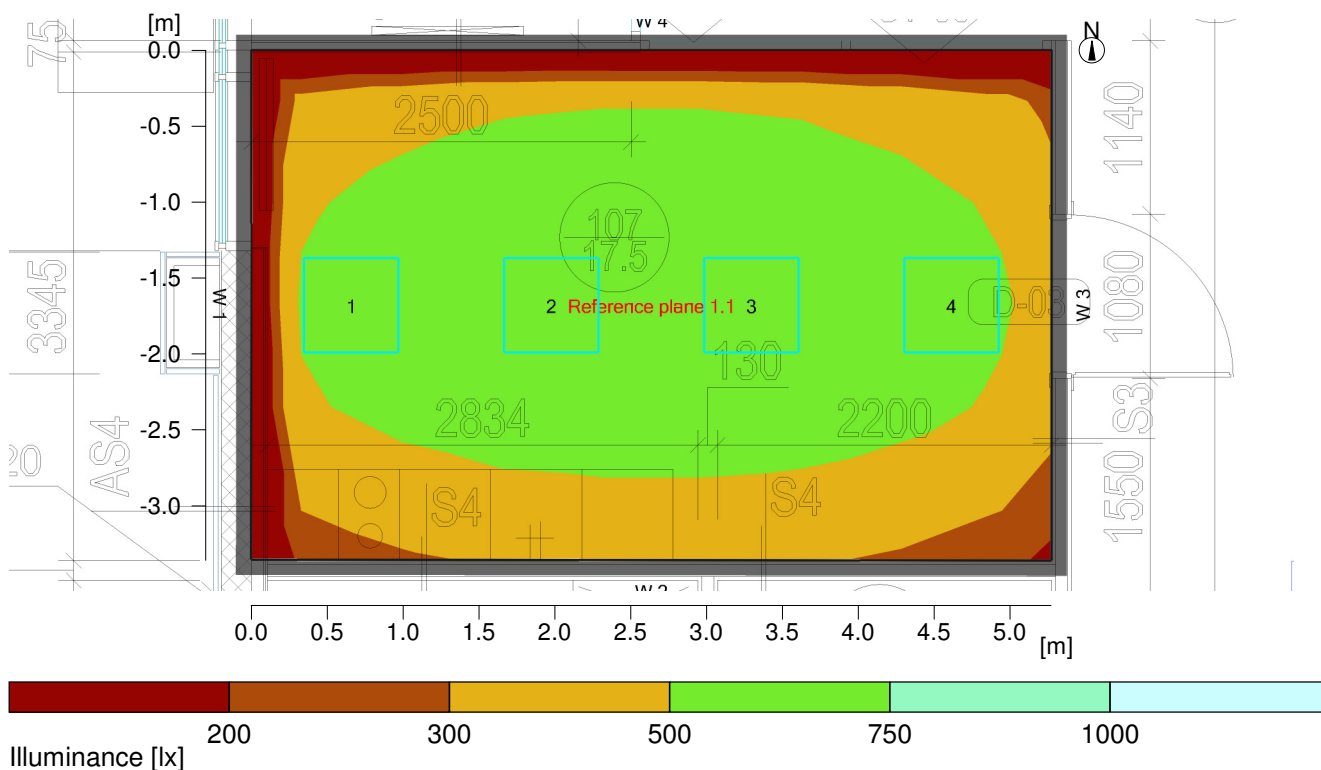


Wall	x	y	Length	Reflectance
1	67.90 m	212.27 m	3.35 m	50.0 %
2	73.17 m	212.26 m	5.27 m	50.0 %
3	73.17 m	215.62 m	3.36 m	50.0 %
4	67.90 m	215.62 m	5.27 m	50.0 %
Floor				30.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.75 m		

6 107

6.2 Summary, 107

6.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	3.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	15600.00 lm
Total power	128.0 W
Total power per area (17.69 m²)	7.23 W/m² (1.45 W/m²/100lx)

Evaluation area 1

User profile	Reference plane 1.1
	Educational premises - Educational buildings
	5.36.26 (EN 12464-1, 8.2011) Kitchen (Ra >80.00)
	Horizontal
Em	500 lx (>= 500 lx)
Emin	287 lx
Emin/Eav (Uo)	0.57 (>= 0.60)
Emin/Emax (Ud)	0.41
UGR (1.9H 2.9H)	<=16.5 (< 22.00)
Position	0.75 m

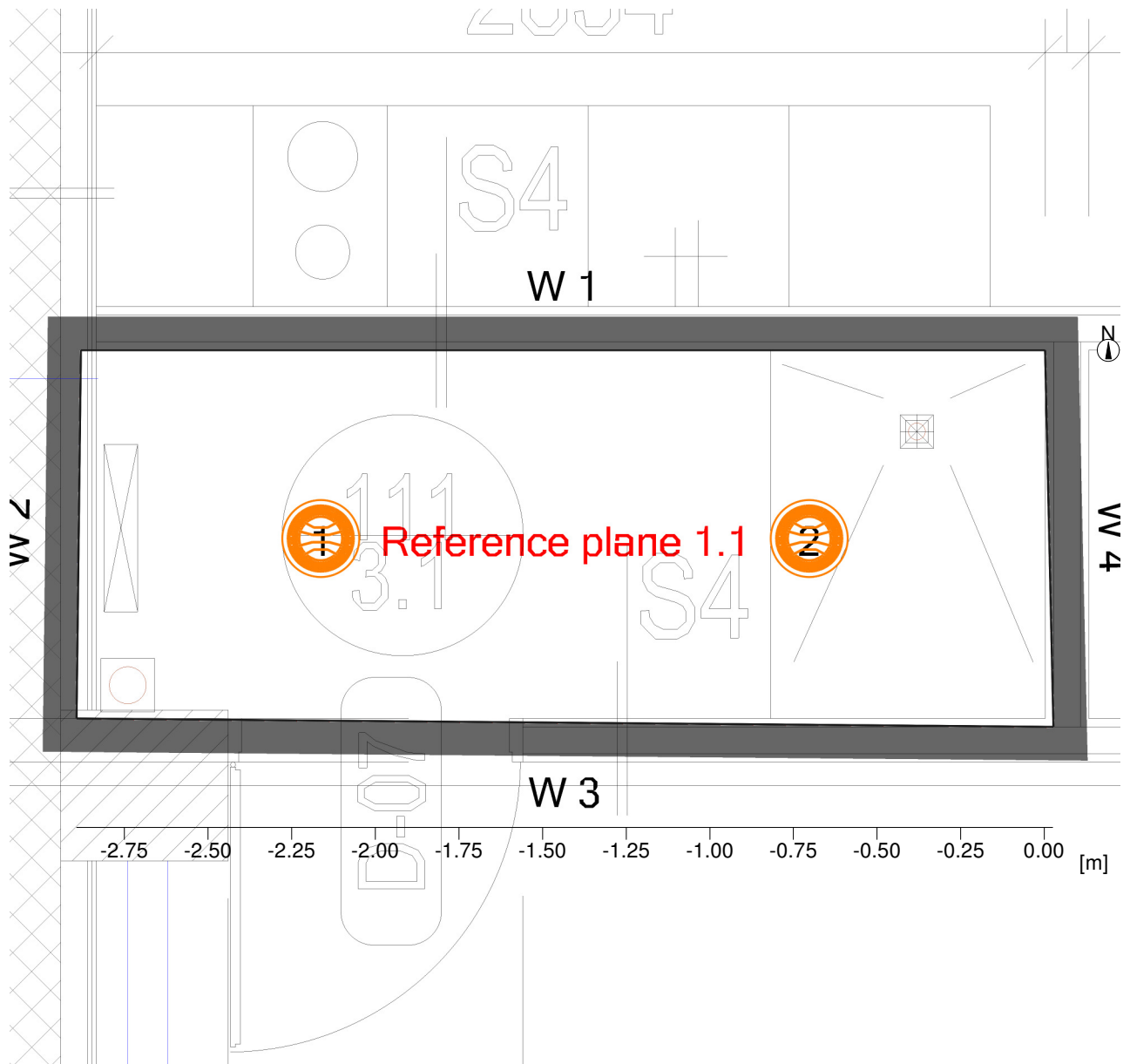
Type No.\Make

17	4	TRILUX
		Order No. : 6884740
		Luminaire name : ArimoS M84 CDP-IP LED4000-840
		Equipment : 1 x 32 W / 3900 lm

7 111

7.1 Description, 111

7.1.1 Floor plan

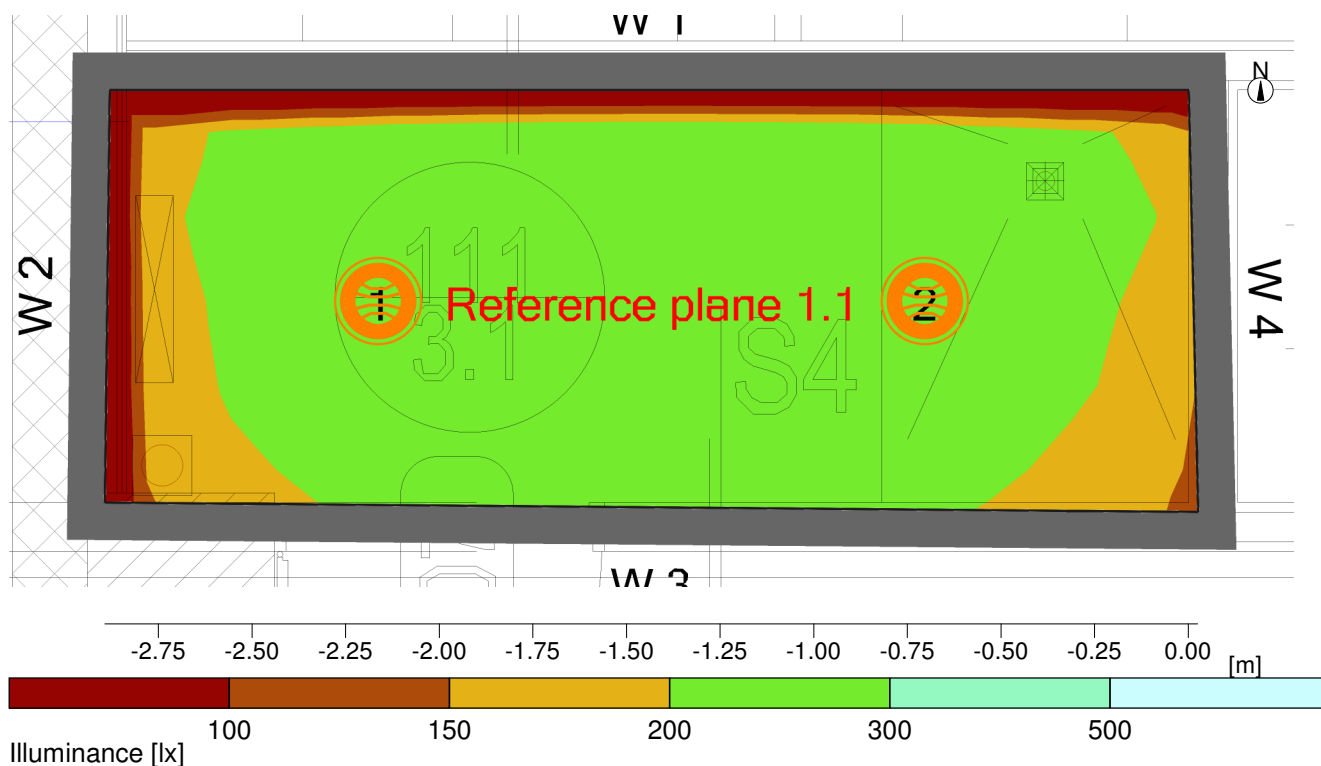


Wall	x	y	Length	Reflectance
1	67.96 m	212.13 m	2.88 m	50.0 %
2	67.95 m	211.03 m	1.10 m	50.0 %
3	70.87 m	211.01 m	2.92 m	50.0 %
4	70.84 m	212.13 m	1.13 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

7 111

7.2 Summary, 111

7.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.50 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (3.23 m²)

3000.00 lm
 34.0 W
 10.54 W/m² (4.77 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)

Horizontal

Em 221 lx (>= 200 lx)
 Emin 145 lx
 Emin/Eav (Uo) 0.66 (>= 0.40)
 Emin/Emax (Ud) 0.53
 UGR (0.9H 2.3H) <=19.6 (< 25.00)
 Position 0.00 m

Type No.\Make

3 2 **TRILUX**
 Order No. : 6856451
 Luminaire name : Amatrix G2 C07 HR LED1400-840 01
 Equipment : 1 x 17 W / 1500 lm

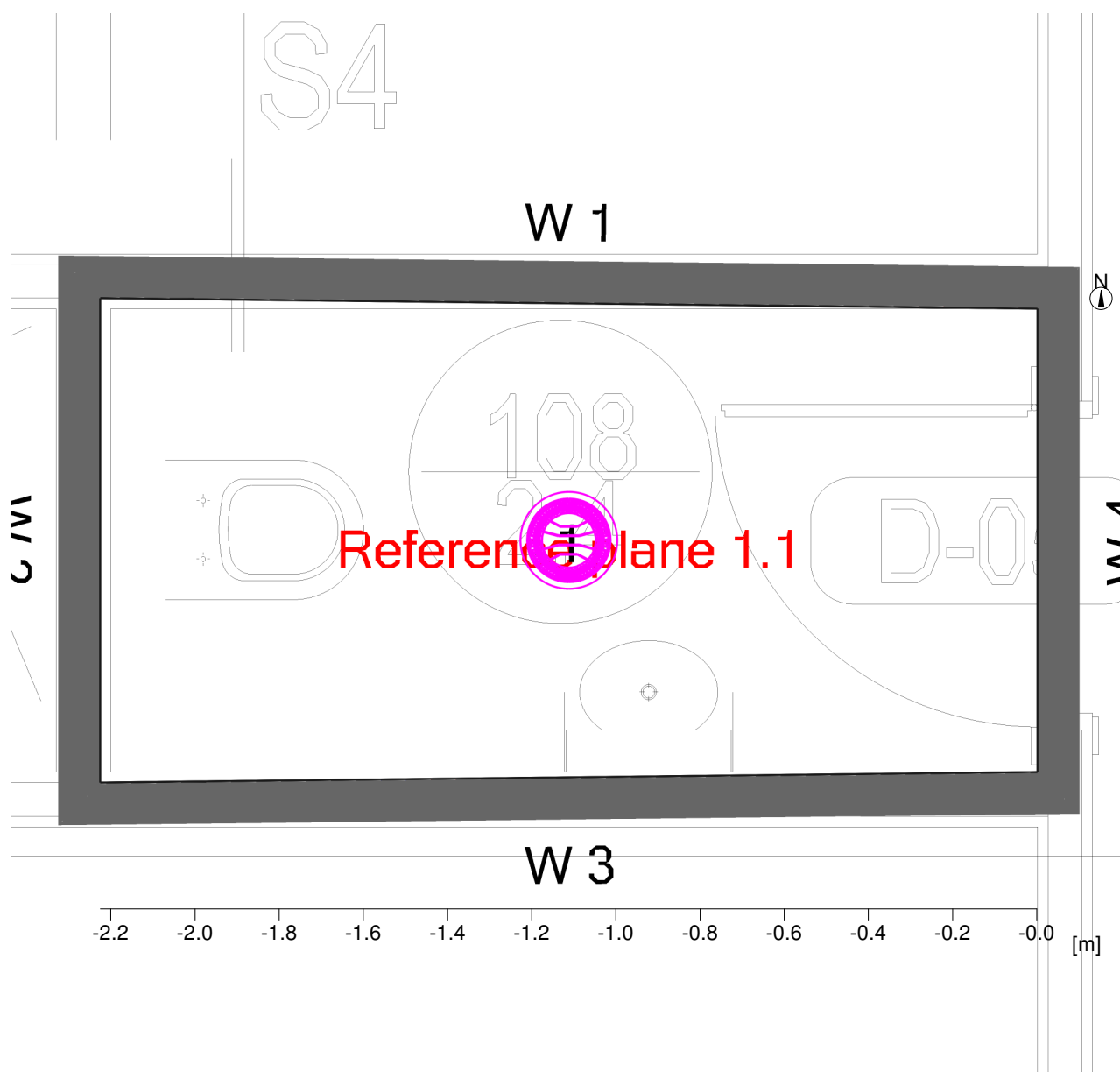
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8 108

8.1 Description, 108

8.1.1 Floor plan

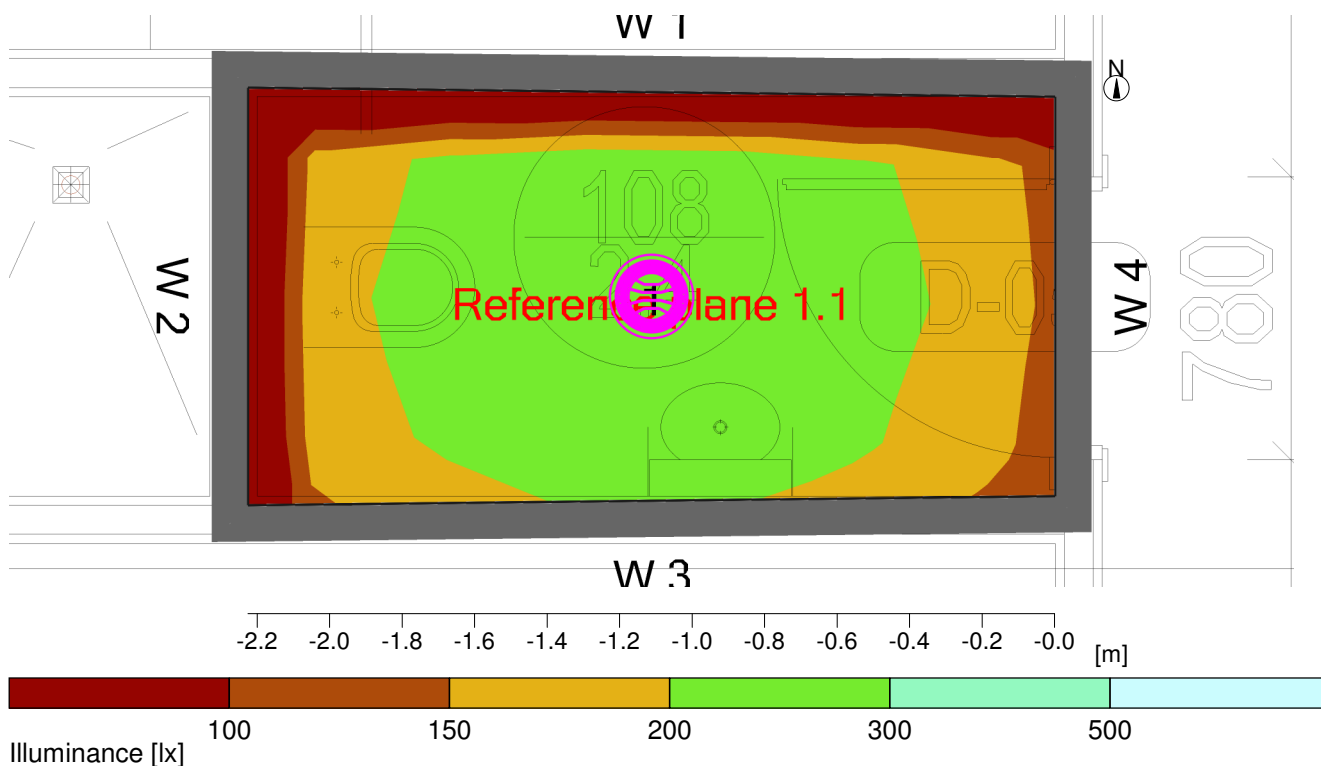


Wall	x	y	Length	Reflectance
1	70.95 m	212.16 m	2.23 m	50.0 %
2	70.95 m	211.01 m	1.15 m	50.0 %
3	73.17 m	211.03 m	2.23 m	50.0 %
4	73.17 m	212.13 m	1.10 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

8 108

8.2 Summary, 108

8.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.50 m
Maintenance factor	0.80
Total luminous flux of all lamps	2000.00 lm
Total power	24.0 W
Total power per area (2.50 m²)	9.59 W/m² (4.78 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)
 Horizontal
 Em 200 lx (≥ 200 lx)
 Emin 158 lx
 Emin/Eav (Uo) 0.79 (≥ 0.40)
 Emin/Emax (Ud) 0.65
 UGR (2.0H 2.0H) ≤ 20.5 (< 25.00)
 Position 0.00 m

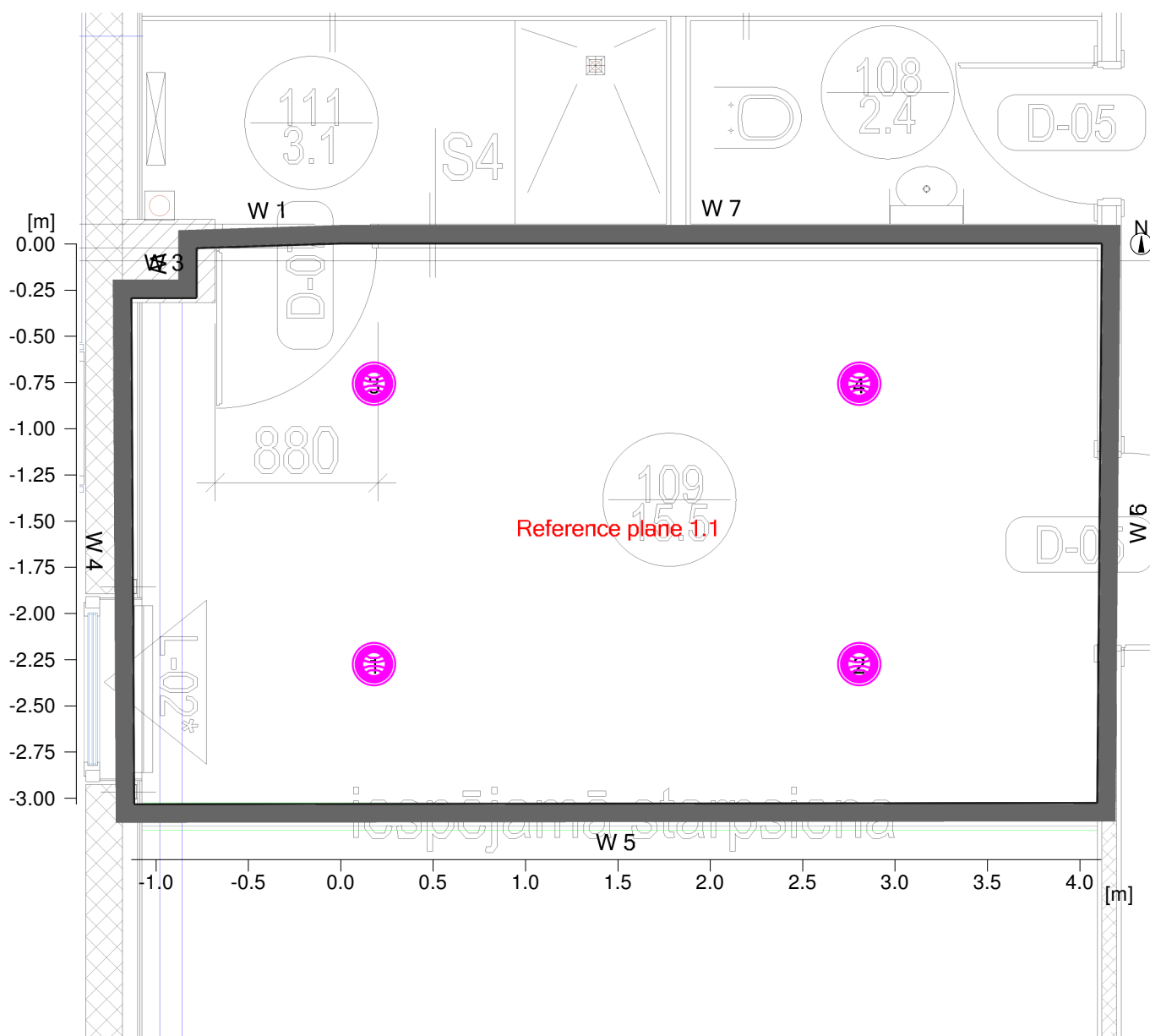
Type No.\Make

2	1	TRILUX
		Order No. : 6856651
		Luminaire name : Amatrix G2 C07 HR LED2000-840 01
		Equipment : 1 x 24 W / 2000 lm

9 109

9.1 Description, 109

9.1.1 Floor plan

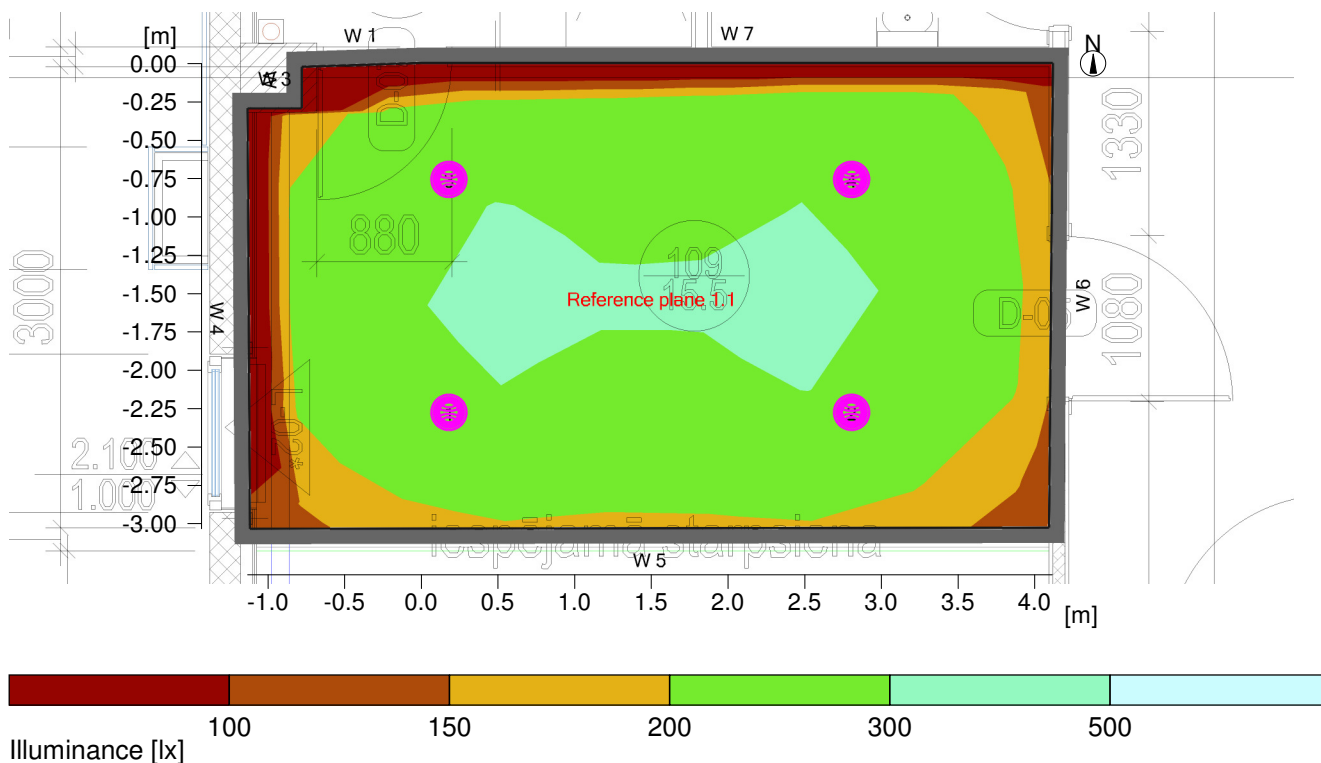


Wall	x	y	Length	Reflectance
1	68.30 m	210.90 m	0.78 m	50.0 %
2	68.30 m	210.63 m	0.27 m	50.0 %
3	67.95 m	210.63 m	0.35 m	50.0 %
4	67.96 m	207.90 m	2.74 m	50.0 %
5	73.17 m	207.90 m	5.21 m	50.0 %
6	73.20 m	210.93 m	3.03 m	50.0 %
7	69.08 m	210.93 m	4.12 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.00 m		

9 109

9.2 Summary, 109

9.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 3.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (15.72 m²)

8000.00 lm
 96.0 W
 6.11 W/m² (2.59 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)

Horizontal

Em 236 lx (>= 200 lx)
 Emin 144 lx
 Emin/Eav (Uo) 0.61 (>= 0.40)
 Emin/Emax (Ud) 0.48
 UGR (1.7H 2.9H) <=20.7 (< 25.00)
 Position 0.00 m

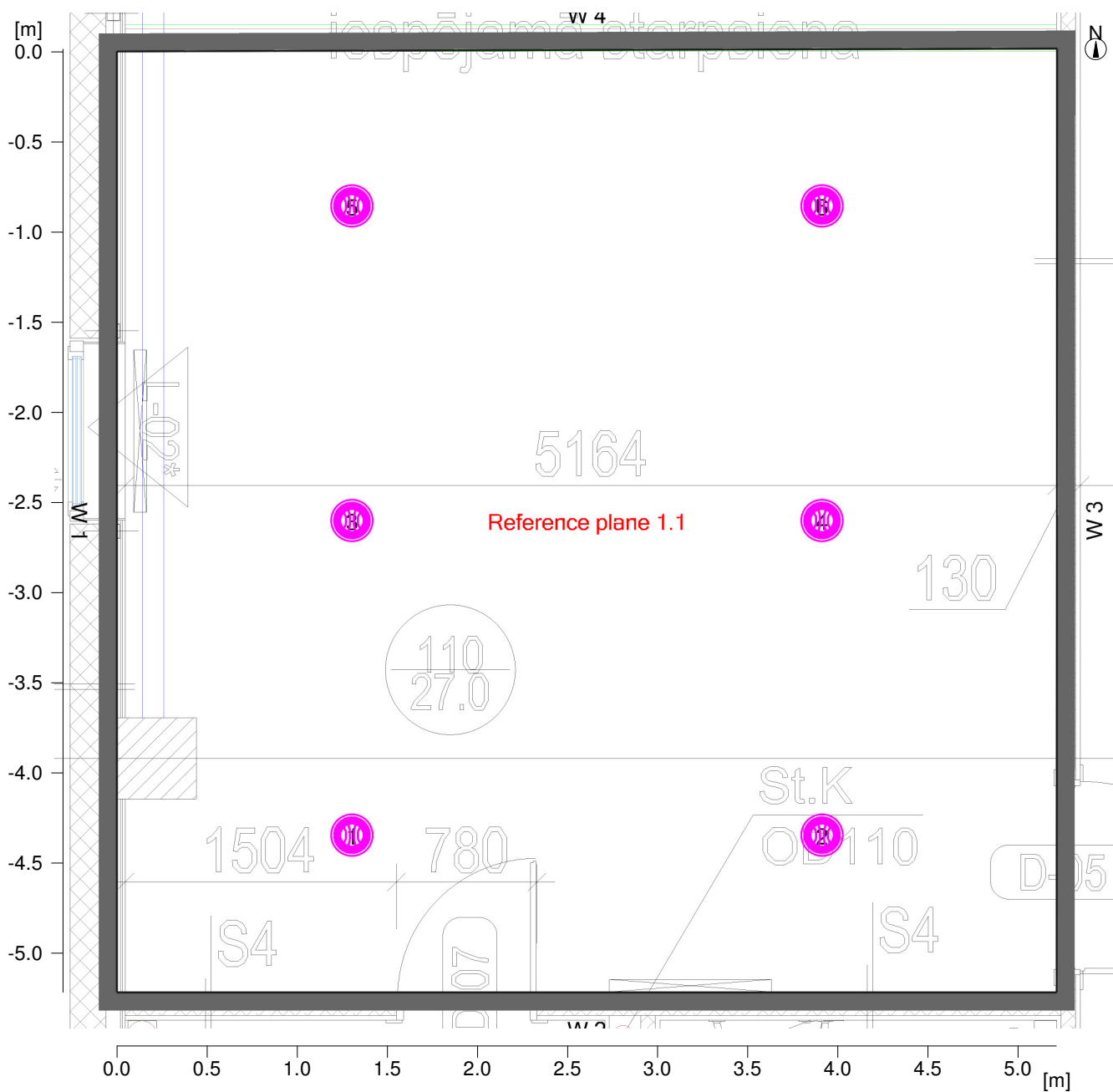
Type No. Make

2 4 **TRILUX**
 Order No. : 6856651
 Luminaire name : Amatrix G2 C07 HR LED2000-840 01
 Equipment : 1 x 24 W / 2000 lm

10 110

10.1 Description, 110

10.1.1 Floor plan

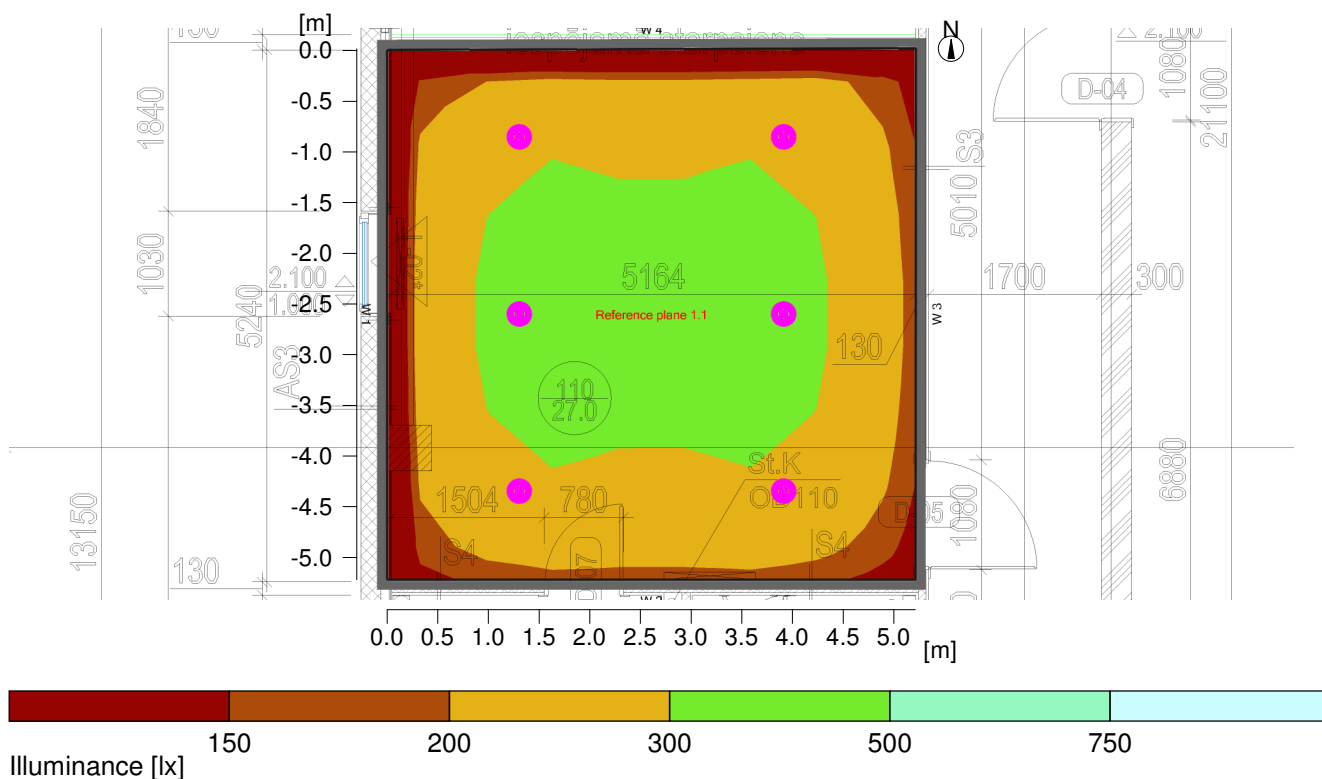


Wall	x	y	Length	Reflectance
1	67.96 m	202.54 m	5.22 m	50.0 %
2	73.17 m	202.54 m	5.21 m	50.0 %
3	73.18 m	207.77 m	5.23 m	50.0 %
4	67.96 m	207.75 m	5.21 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.00 m		

10 110

10.2 Summary, 110

10.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 3.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (27.23 m²)

12000.00 lm
 144.0 W
 5.29 W/m² (2.08 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)
 Horizontal
 Em 255 lx (>= 200 lx)
 Emin 149 lx
 Emin/Eav (Uo) 0.58 (>= 0.40)
 Emin/Emax (Ud) 0.47
 UGR (2.9H 2.9H) <=20.8 (< 25.00)
 Position 0.00 m

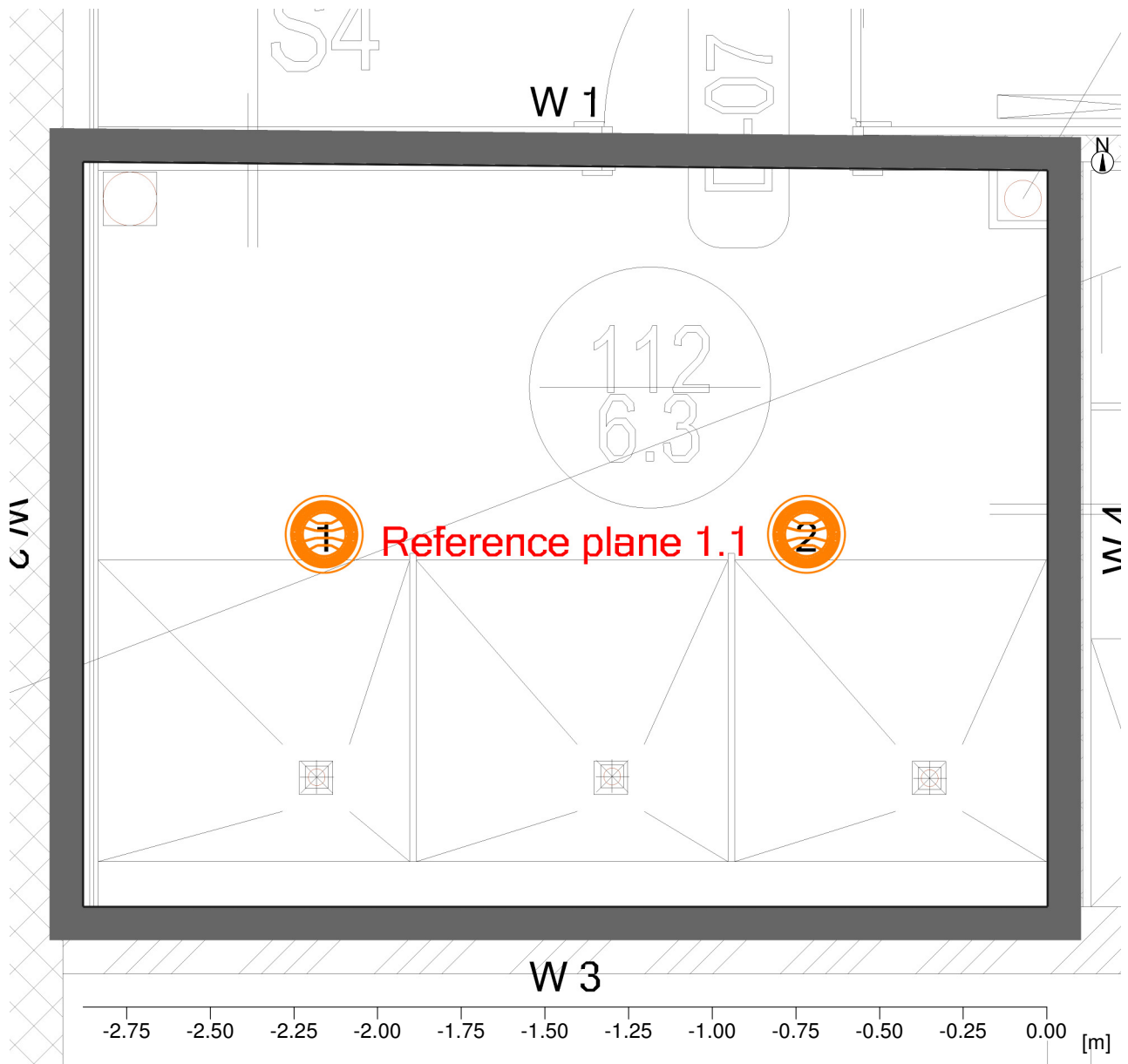
Type No.\Make

2 6 **TRILUX**
 Order No. : 6856651
 Luminaire name : Amatrix G2 C07 HR LED2000-840 01
 Equipment : 1 x 24 W / 2000 lm

11 112

11.1 Description, 112

11.1.1 Floor plan

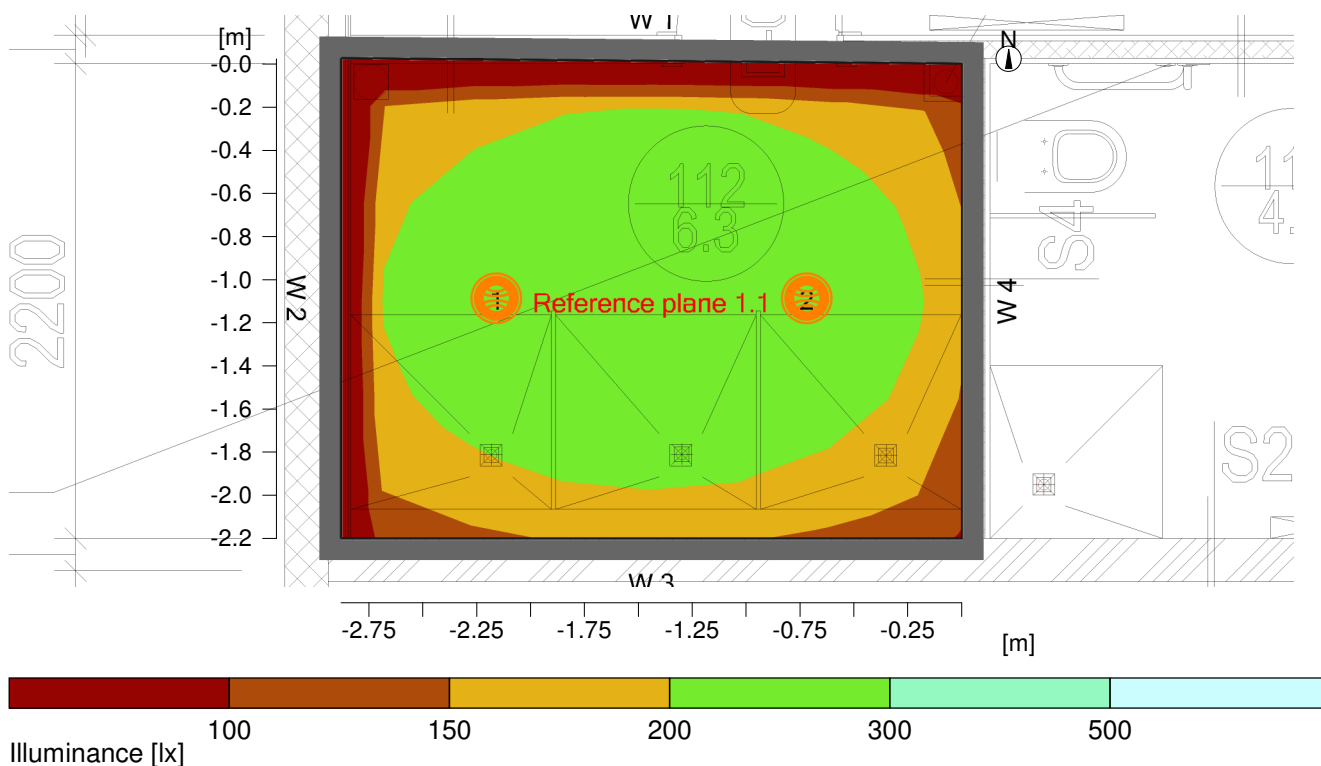


Wall	x	y	Length	Reflectance
1	67.96 m	202.41 m	2.88 m	50.0 %
2	67.96 m	200.18 m	2.22 m	50.0 %
3	70.84 m	200.18 m	2.88 m	50.0 %
4	70.84 m	202.38 m	2.20 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

11 112

11.2 Summary, 112

11.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.50 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (6.37 m²)

3000.00 lm
 34.0 W
 5.34 W/m² (2.67 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)

Horizontal

Em 200 lx (>= 200 lx)
 Emin 142 lx
 Emin/Eav (Uo) 0.71 (>= 0.40)
 Emin/Emax (Ud) 0.54
 UGR (1.7H 2.2H) <=19.6 (< 25.00)
 Position 0.00 m

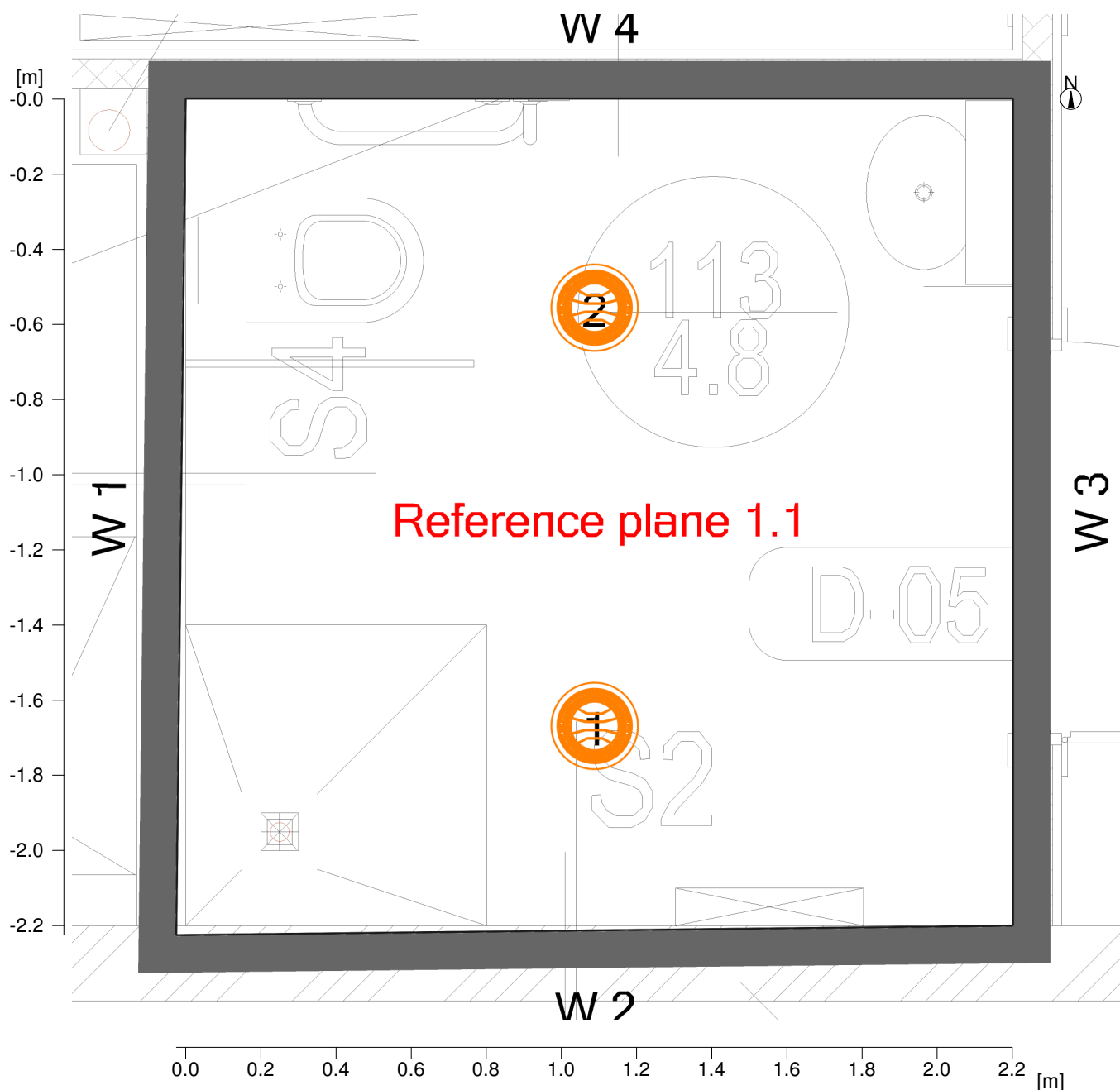
Type No.\Make

3 2 **TRILUX**
 Order No. : 6856451
 Luminaire name : Amatrix G2 C07 HR LED1400-840 01
 Equipment : 1 x 17 W / 1500 lm

12 113

12.1 Description, 113

12.1.1 Floor plan

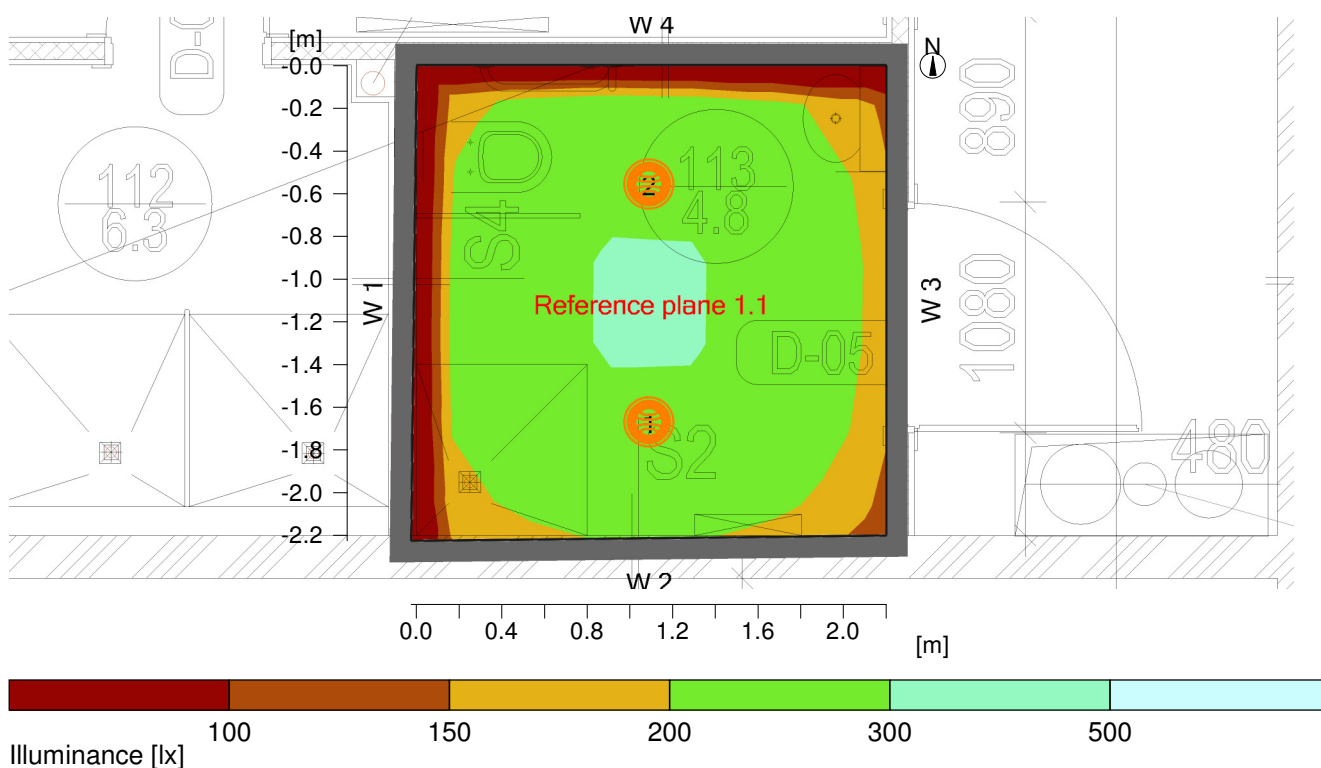


Wall	x	y	Length	Reflectance
1	70.95 m	200.16 m	2.23 m	50.0 %
2	73.17 m	200.18 m	2.23 m	50.0 %
3	73.17 m	202.38 m	2.20 m	50.0 %
4	70.97 m	202.38 m	2.20 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

12 113

12.2 Summary, 113

12.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.50 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (4.90 m²)

3000.00 lm
 34.0 W
 6.95 W/m² (3.02 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)

Horizontal

Em 230 lx (>= 200 lx)
 Emin 167 lx
 Emin/Eav (Uo) 0.73 (>= 0.40)
 Emin/Emax (Ud) 0.57
 UGR (2.0H 2.0H) <=19.6 (< 25.00)
 Position 0.00 m

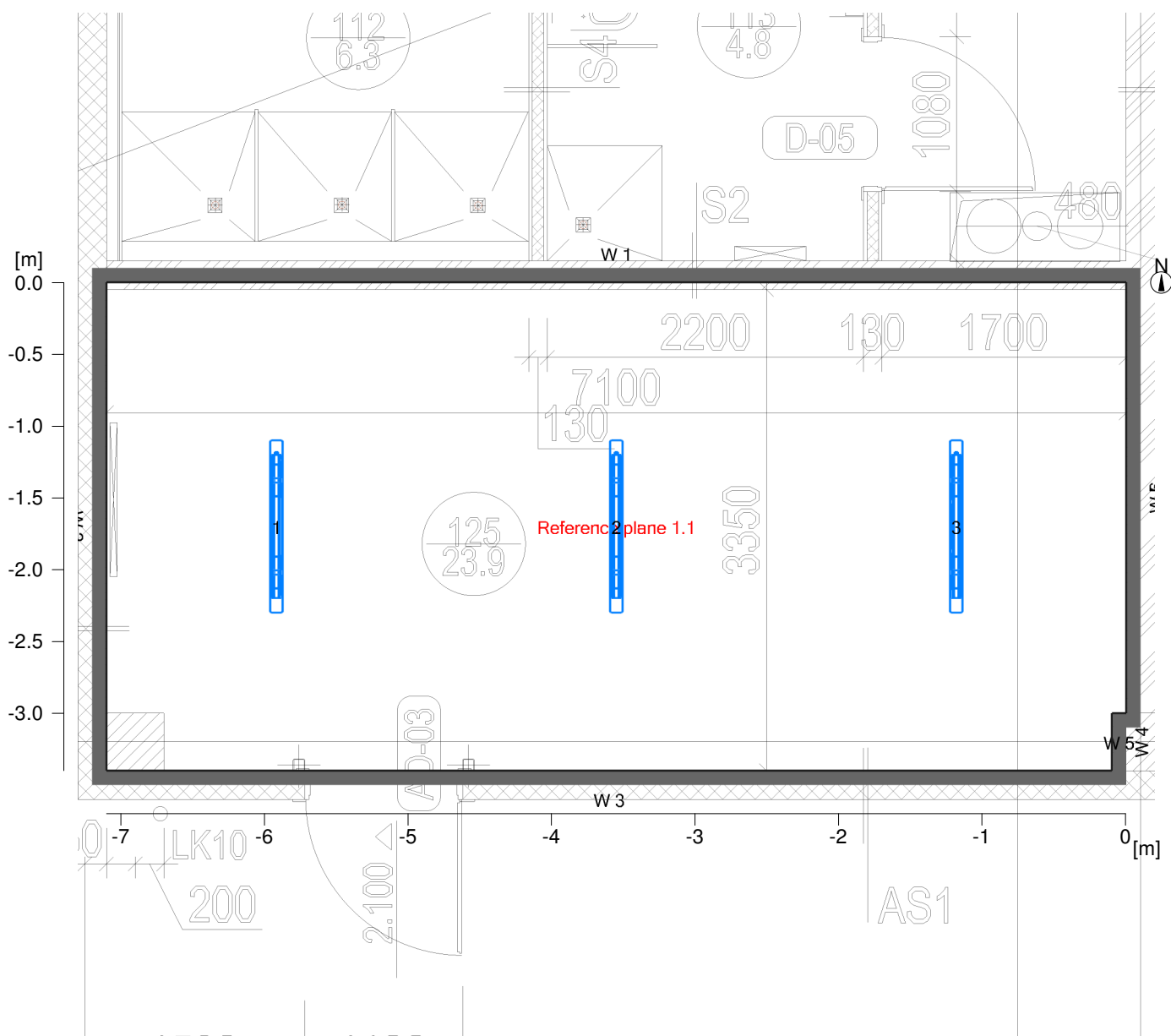
Type No.\Make

3 2 **TRILUX**
 Order No. : 6856451
 Luminaire name : Amatrix G2 C07 HR LED1400-840 01
 Equipment : 1 x 17 W / 1500 lm

13 125

13.1 Description, 125

13.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	67.90 m	200.03 m	7.10 m	50.0 %
2	67.90 m	196.63 m	3.40 m	50.0 %
3	74.90 m	196.63 m	7.00 m	50.0 %
4	74.90 m	197.03 m	0.40 m	50.0 %
5	75.00 m	197.03 m	0.10 m	50.0 %
6	75.00 m	200.03 m	3.00 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.00 m		

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13.2.1 Result overview, Evaluation area 1



Average indirect fraction
3.00 m
0.80

12000.00 lm
108.0 W
4.48 W/m² (2.08 W/m²/100lx)

Reference plane 1.1

General areas inside buildings - Control rooms
5.3.1 (EN 12464-1, 8.2011) Plant rooms, switch gear rooms (Ra >60.00)
Horizontal

Type No.\Make

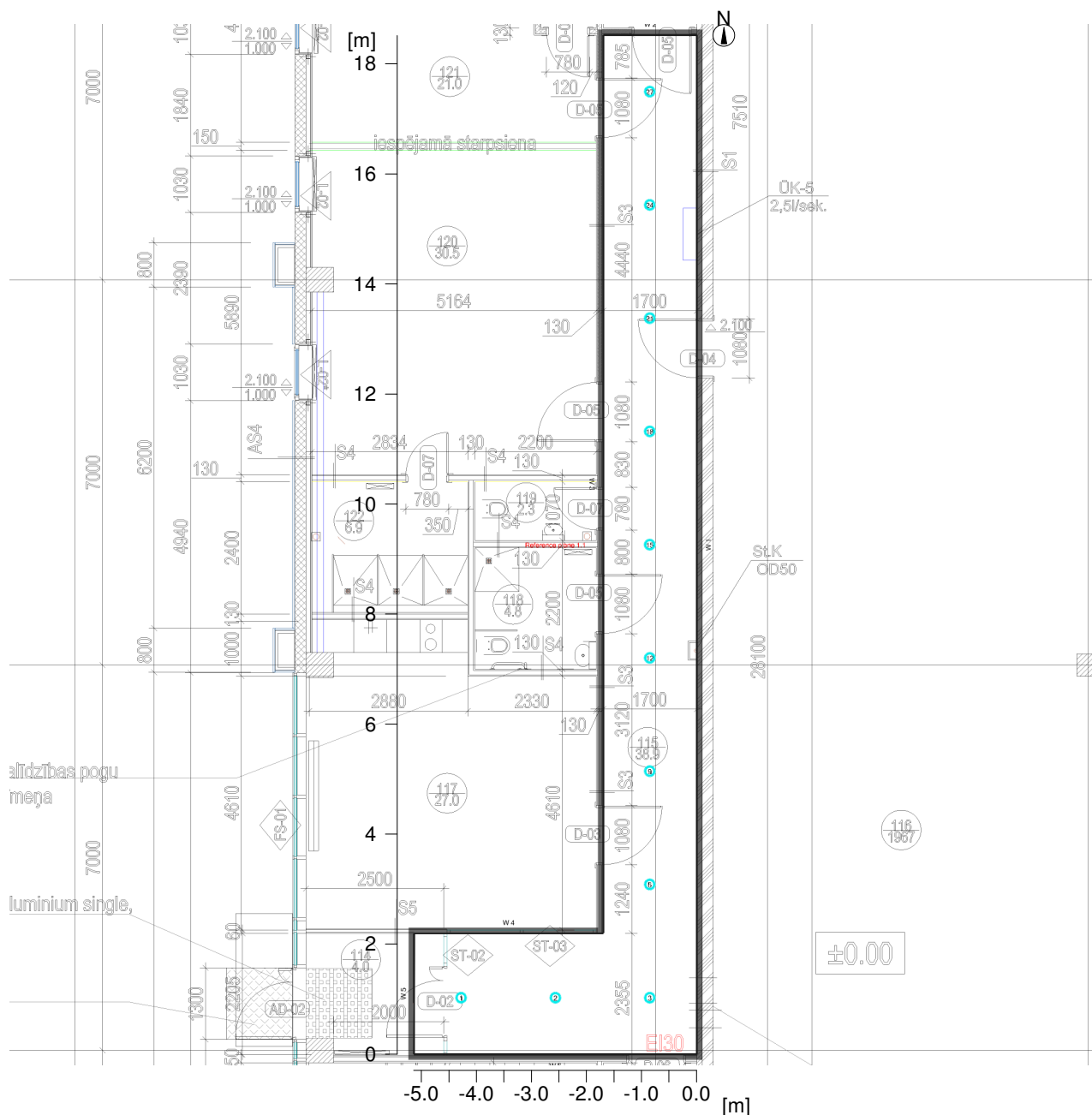
10 3

-please put your own address here-

14 115

14.1 Description, 115

14.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	75.00 m	243.28 m	18.51 m	50.0 %
2	73.30 m	243.28 m	1.70 m	50.0 %
3	73.30 m	226.96 m	16.31 m	50.0 %
4	69.87 m	226.96 m	3.44 m	50.0 %
5	69.86 m	224.76 m	2.20 m	50.0 %
6	75.00 m	224.76 m	5.14 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.00 m		

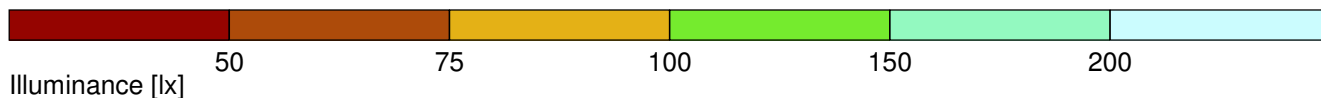
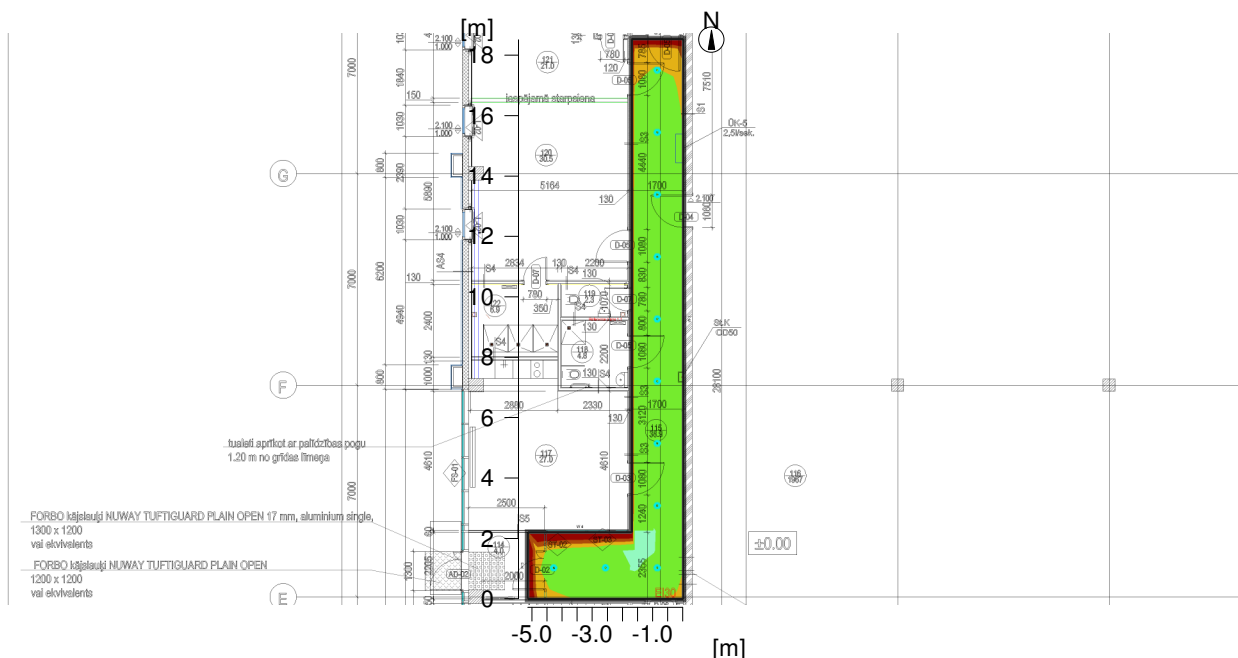
Object : Ventspils Ganību iela
 Installation : Darba apgaismojums
 Project number : 1
 Date : 05.02.2018

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14 115

14.2 Summary, 115

14.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 3.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (39.04 m²)

14300.00 lm
 165.0 W
 4.23 W/m² (3.61 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

Traffic zones inside buildings
 5.1.1 (EN 12464-1, 8.2011) Circulation areas and corridors (Ra >40.00)
 Horizontal

Em 117 lx (>= 100 lx)
 Emin 73 lx
 Emin/Eav (Uo) 0.62 (>= 0.40)
 Emin/Emax (Ud) 0.49
 Position 0.00 m

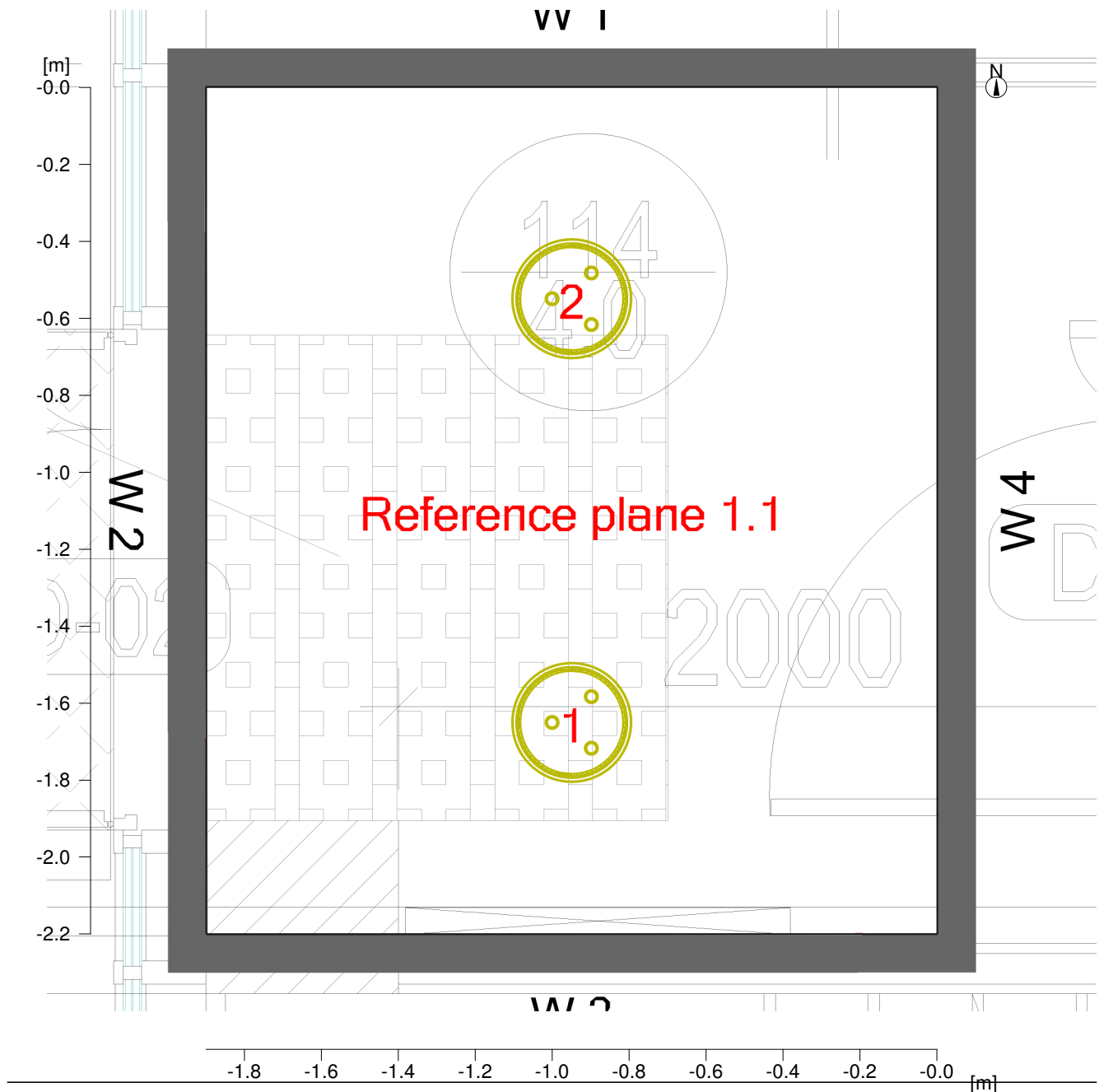
Type No.\Make

16 11 **TRILUX**
 Order No. : 6864740
 Luminaire name : Aviella C05 OA 1200-840 01
 Equipment : 1 x 15 W / 1300 lm

15 114

15.1 Description, 114

15.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	67.90 m	226.96 m	1.90 m	50.0 %
2	67.90 m	224.76 m	2.20 m	50.0 %
3	69.80 m	224.76 m	1.90 m	50.0 %
4	69.80 m	226.96 m	2.20 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

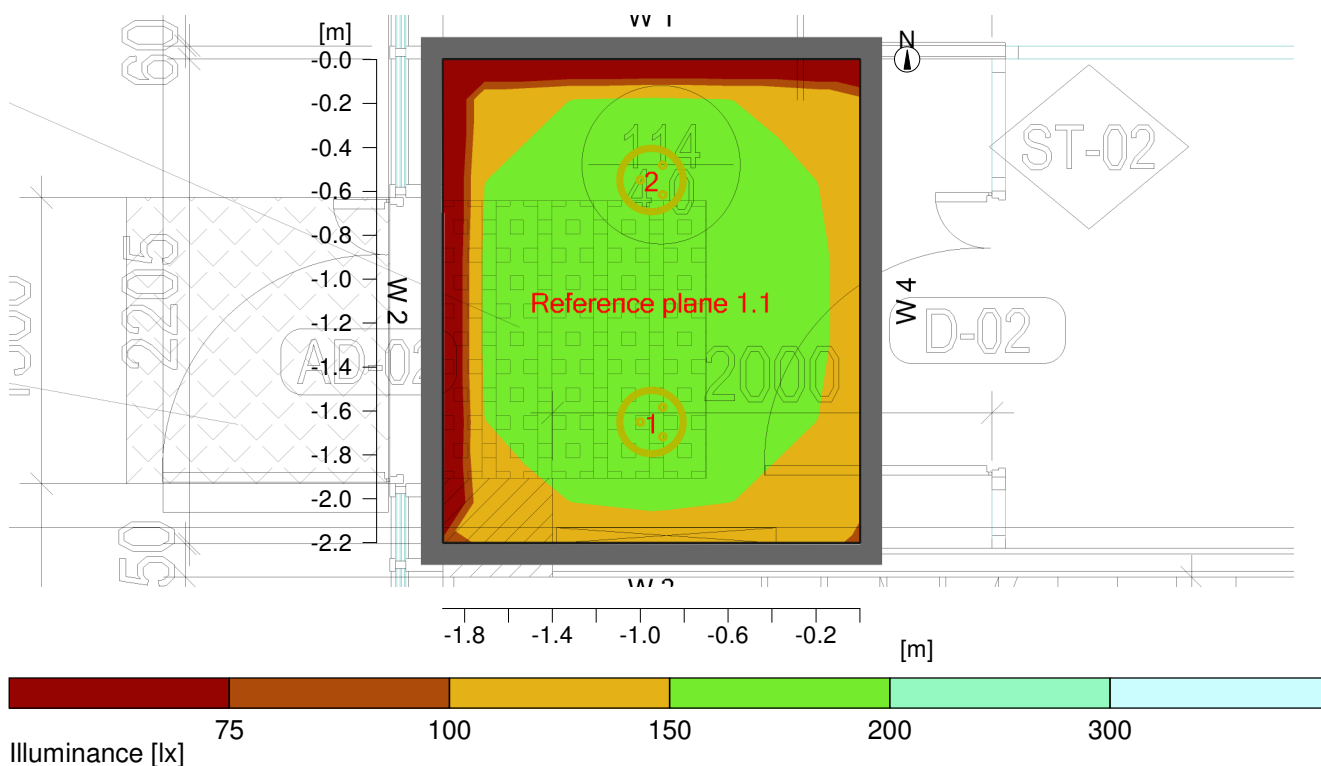
Object : Ventspils Ganību iela
 Installation : Darba apgaismojums
 Project number : 1
 Date : 05.02.2018

RELUX®

15 114

15.2 Summary, 114

15.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.50 m
Maintenance factor	0.80
Total luminous flux of all lamps	3000.00 lm
Total power	30.0 W
Total power per area (4.18 m²)	7.18 W/m² (4.73 W/m²/100lx)

Evaluation area 1

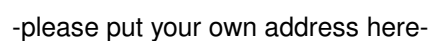
User profile	Traffic zones inside buildings
	5.1.1 (EN 12464-1, 8.2011) Circulation areas and corridors (Ra >40.00)
	Horizontal
Em	152 lx (>= 100 lx)
Emin	126 lx
Emin/Eav (Uo)	0.83 (>= 0.40)
Emin/Emax (Ud)	0.71
UGR (2.0H 2.0H)	<=16.5 (< 28.00)
Position	0.00 m

Type No.Make

1	2	TRILUX
		Order No. : 6444740
		Luminaire name : 7482 G2 LED1400-830
		Equipment : 1 x 15 W / 1500 lm

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16.1.1 Floor plan



Object : Ventspils Ganību iela
Installation : Darba apgaismojums
Project number : 1
Date : 05.02.2018



16 117

16.1 Description, 117

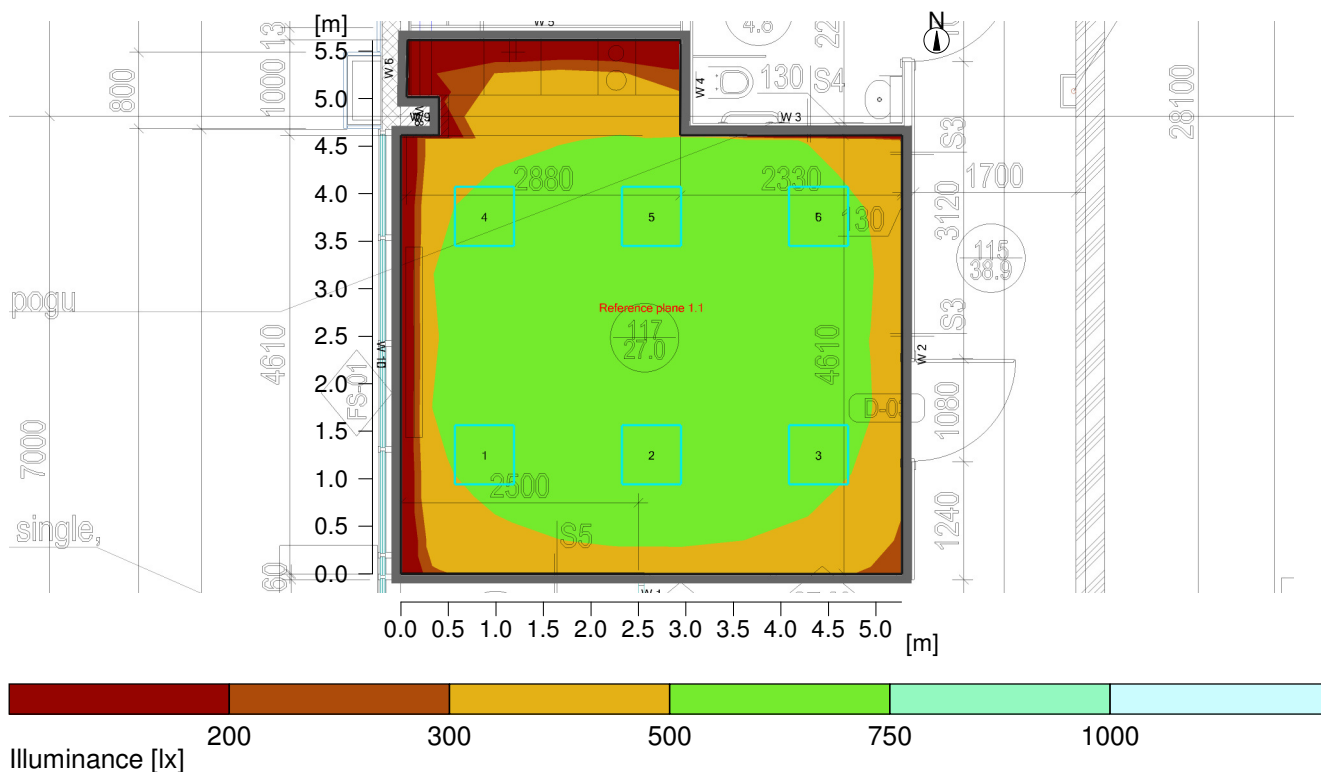
16.1.1 Floor plan

Wall	x	y	Length	Reflectance
1	73.17 m	227.02 m	5.27 m	50.0 %
2	73.17 m	231.63 m	4.61 m	50.0 %
3	70.84 m	231.63 m	2.33 m	50.0 %
4	70.84 m	232.63 m	1.00 m	50.0 %
5	67.97 m	232.63 m	2.87 m	50.0 %
6	67.96 m	232.03 m	0.60 m	50.0 %
7	68.30 m	232.03 m	0.34 m	50.0 %
8	68.30 m	231.63 m	0.40 m	50.0 %
9	67.90 m	231.63 m	0.40 m	50.0 %
10	67.90 m	227.02 m	4.61 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.75 m		

16 117

16.2 Summary, 117

16.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 3.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (27.03 m²)

23400.00 lm
 192.0 W
 7.10 W/m² (1.36 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

Educational premises - Educational buildings
 5.36.26 (EN 12464-1, 8.2011) Kitchen (Ra >80.00)
 Horizontal

Em 521 lx (>= 500 lx)
 Emin 183 lx
 Emin/Eav (Uo) 0.35 (>= 0.60)
 Emin/Emax (Ud) 0.27
 UGR (3.1H 2.9H) <=16.8 (< 22.00)
 Position 0.75 m

Type No.\Make

17 6



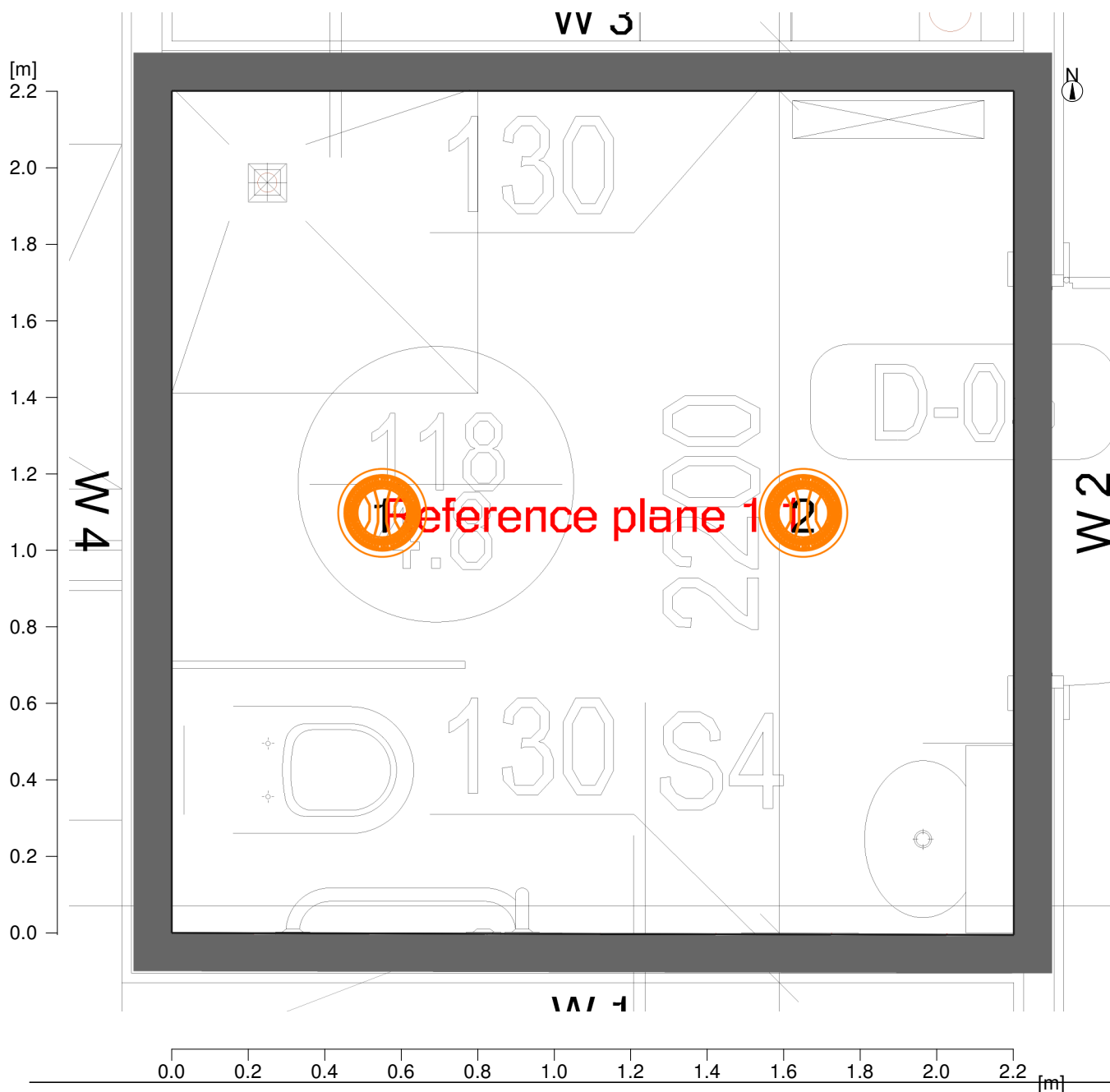
TRILUX

Order No. : 6884740
 Luminaire name : ArimoS M84 CDP-IP LED4000-840
 Equipment : 1 x 32 W / 3900 lm

17 118

17.1 Description, 118

17.1.1 Floor plan

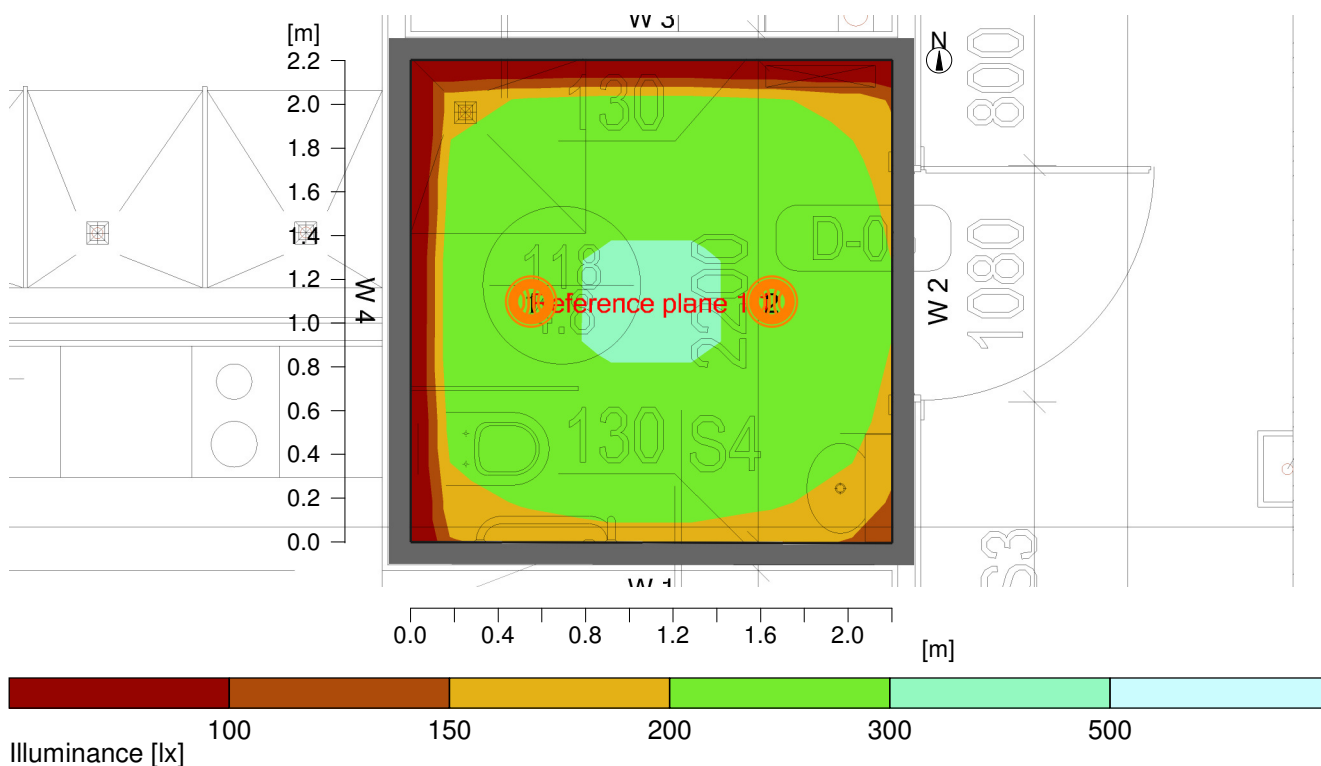


Wall	x	y	Length	Reflectance
1	73.17 m	231.76 m	2.20 m	50.0 %
2	73.17 m	233.96 m	2.21 m	50.0 %
3	70.97 m	233.96 m	2.20 m	50.0 %
4	70.97 m	231.76 m	2.20 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

17 118

17.2 Summary, 118

17.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.50 m
Maintenance factor	0.80
Total luminous flux of all lamps	3000.00 lm
Total power	34.0 W
Total power per area (4.85 m²)	7.02 W/m² (3.03 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)
 Horizontal
 Em 232 lx (>= 200 lx)
 Emin 171 lx
 Emin/Eav (Uo) 0.74 (>= 0.40)
 Emin/Emax (Ud) 0.58
 UGR (2.0H 2.0H) <=19.6 (< 25.00)
 Position 0.00 m

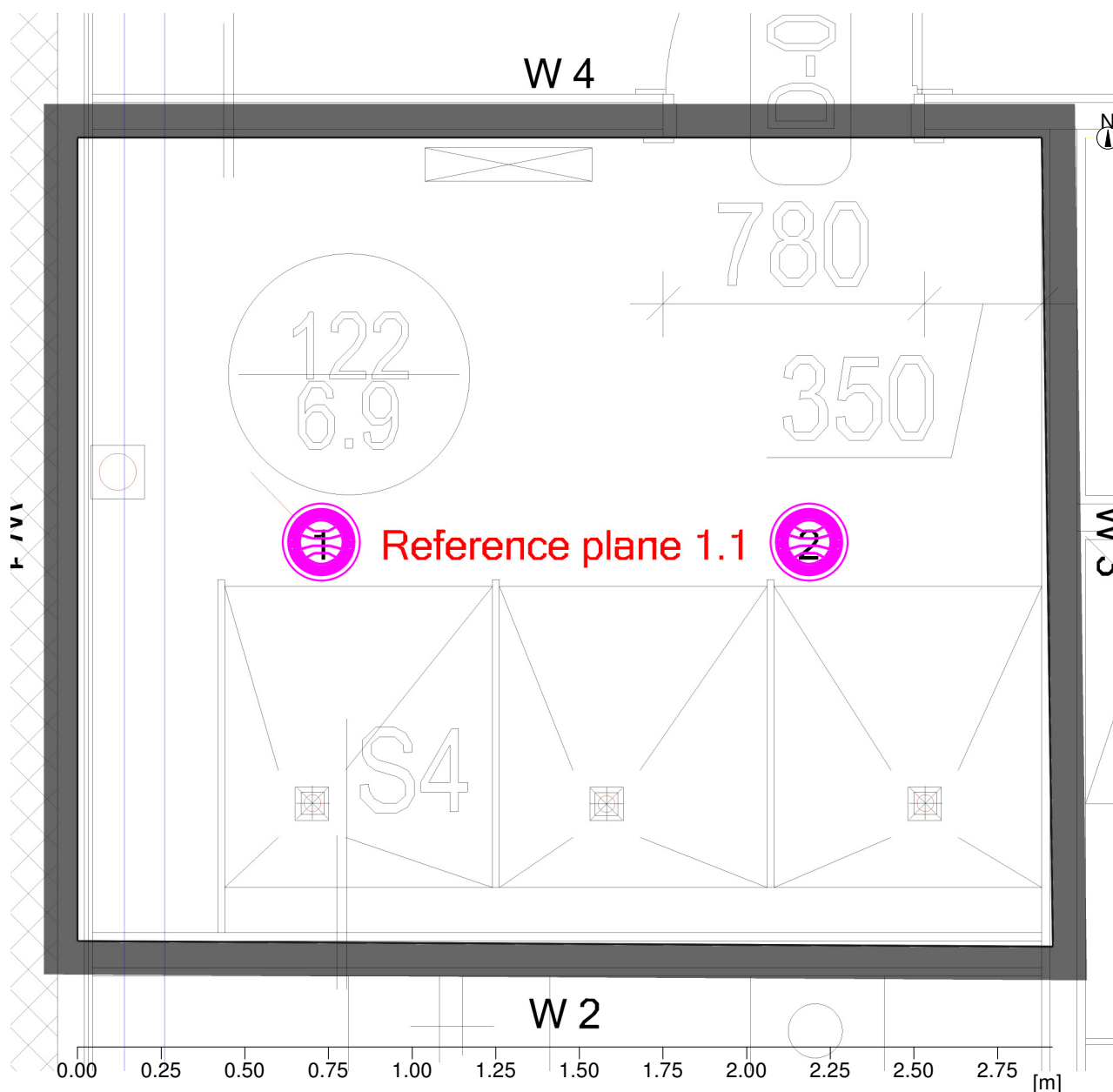
Type No.\Make

3	2	TRILUX	Order No.	: 6856451
			Luminaire name	: Amatrix G2 C07 HR LED1400-840 01
			Equipment	: 1 x 17 W / 1500 lm

18 122

18.1 Description, 122

18.1.1 Floor plan

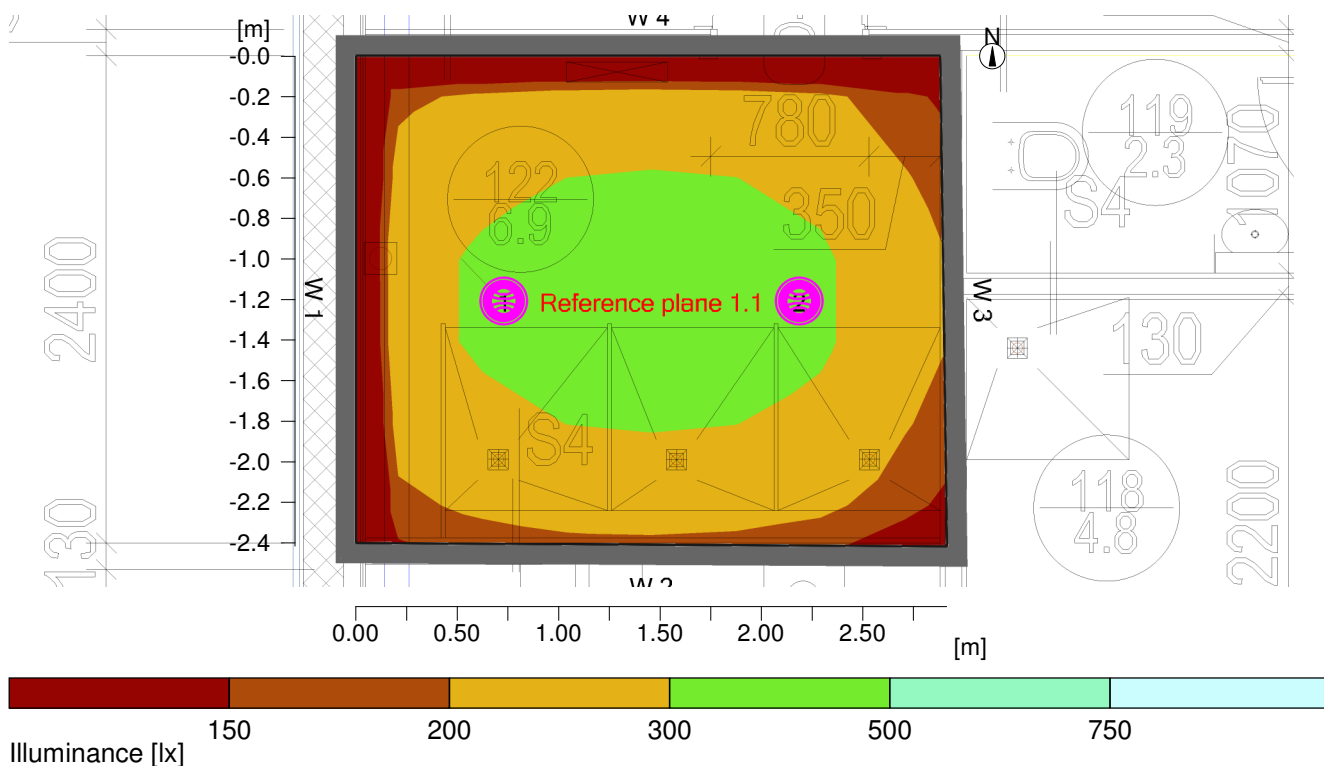


Wall	x	y	Length	Reflectance
1	67.96 m	232.76 m	2.40 m	50.0 %
2	70.88 m	232.75 m	2.91 m	50.0 %
3	70.84 m	235.16 m	2.42 m	50.0 %
4	67.96 m	235.16 m	2.88 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

18 122

18.2 Summary, 122

18.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.50 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (6.98 m²)

4000.00 lm
 48.0 W
 6.88 W/m² (2.74 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)

Horizontal

Em 252 lx (>= 200 lx)
 Emin 156 lx
 Emin/Eav (Uo) 0.62 (>= 0.40)
 Emin/Emax (Ud) 0.46
 UGR (1.9H 2.3H) <=20.6 (< 25.00)
 Position 0.00 m

Type No.\Make



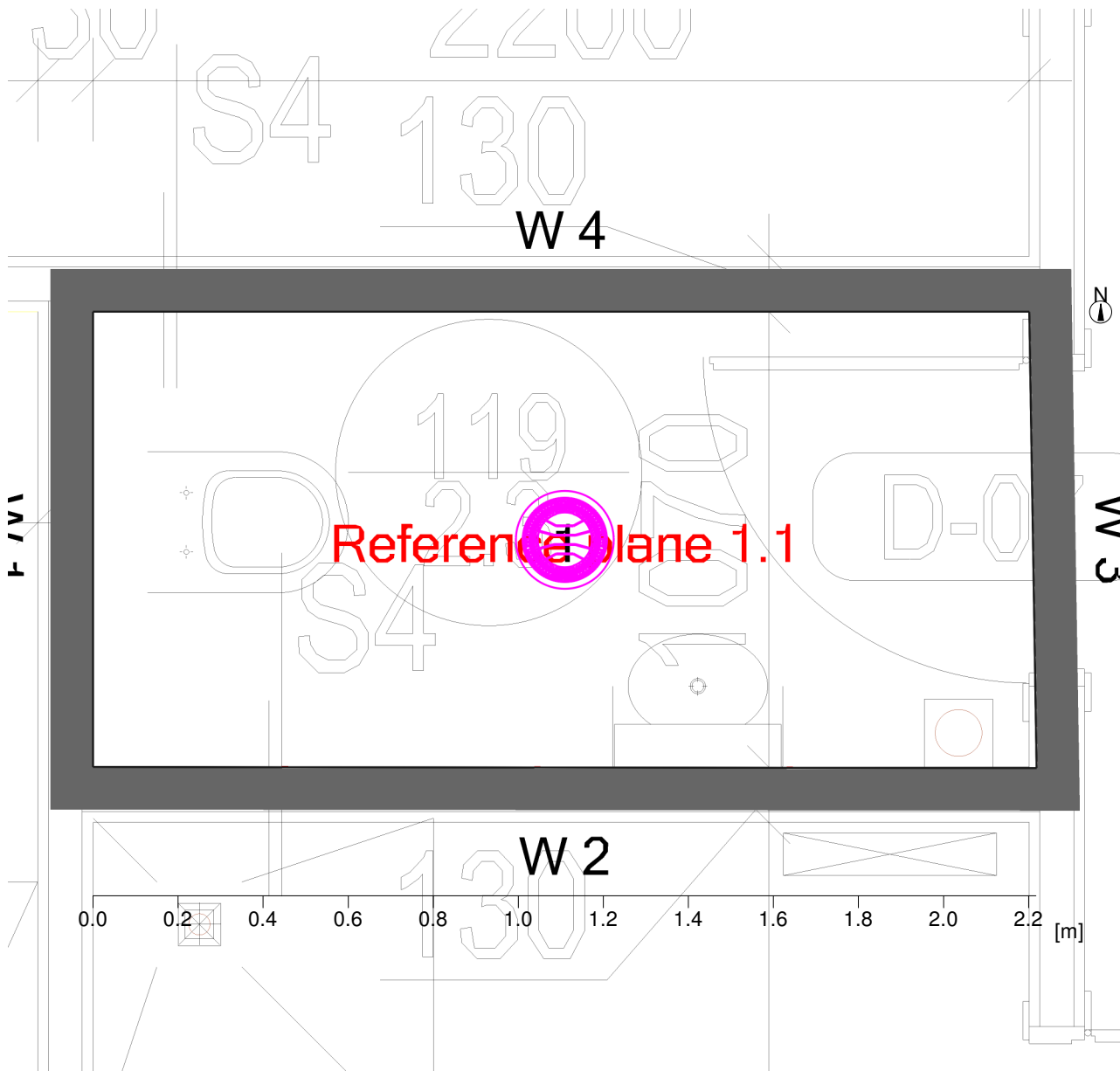
TRILUX

Order No. : 6856651
 Luminaire name : Amatrix G2 C07 HR LED2000-840 01
 Equipment : 1 x 24 W / 2000 lm

19 119

19.1 Description, 119

19.1.1 Floor plan

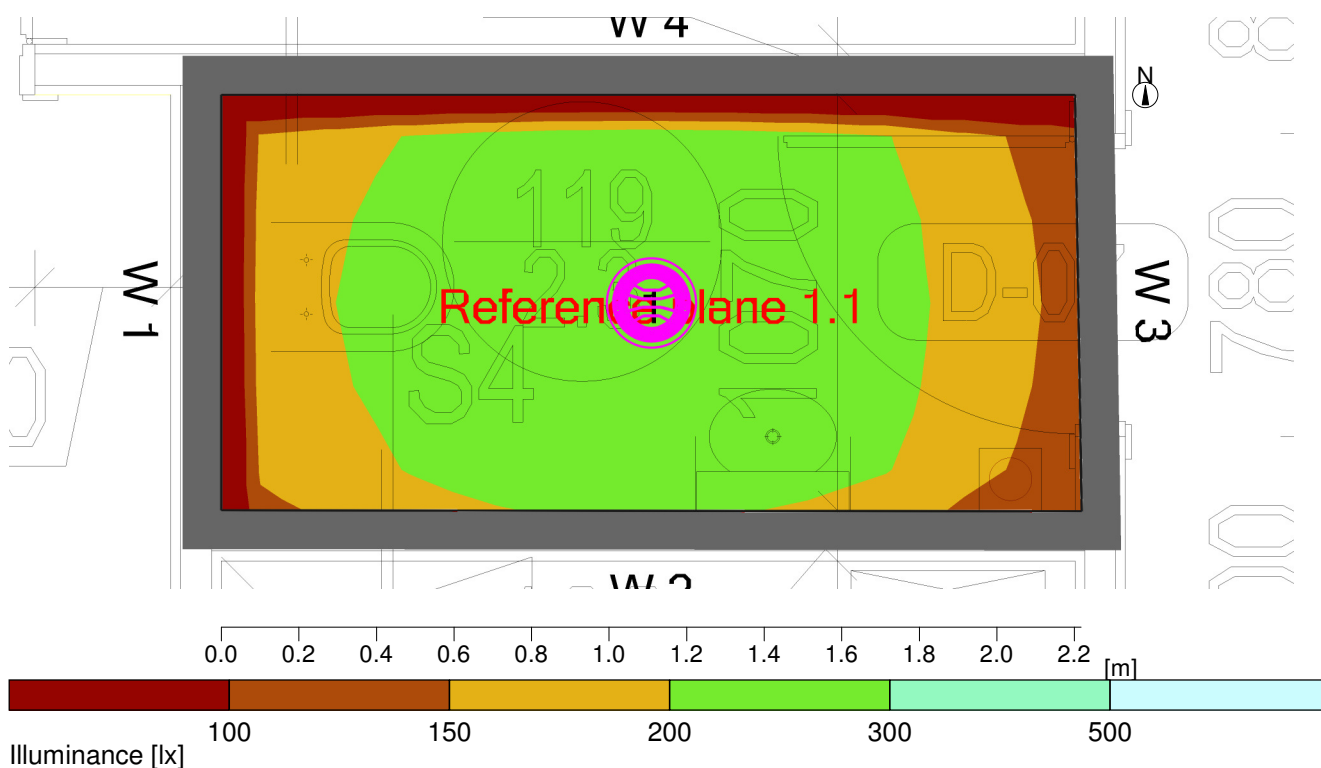


Wall	x	y	Length	Reflectance
1	70.97 m	234.09 m	1.07 m	50.0 %
2	73.19 m	234.09 m	2.22 m	50.0 %
3	73.17 m	235.16 m	1.07 m	50.0 %
4	70.97 m	235.16 m	2.20 m	50.0 %
Floor				35.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

19 119

19.2 Summary, 119

19.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.50 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (2.37 m²)

2000.00 lm
 24.0 W
 10.14 W/m² (5.08 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)

Horizontal

Em 200 lx (>= 200 lx)
 Emin 130 lx
 Emin/Eav (Uo) 0.65 (>= 0.40)
 Emin/Emax (Ud) 0.52
 UGR (2.0H 2.0H) <=20.5 (< 25.00)
 Position 0.00 m

Type No.\Make



TRILUX

Order No. : 6856651
 Luminaire name : Amatrix G2 C07 HR LED2000-840 01
 Equipment : 1 x 24 W / 2000 lm

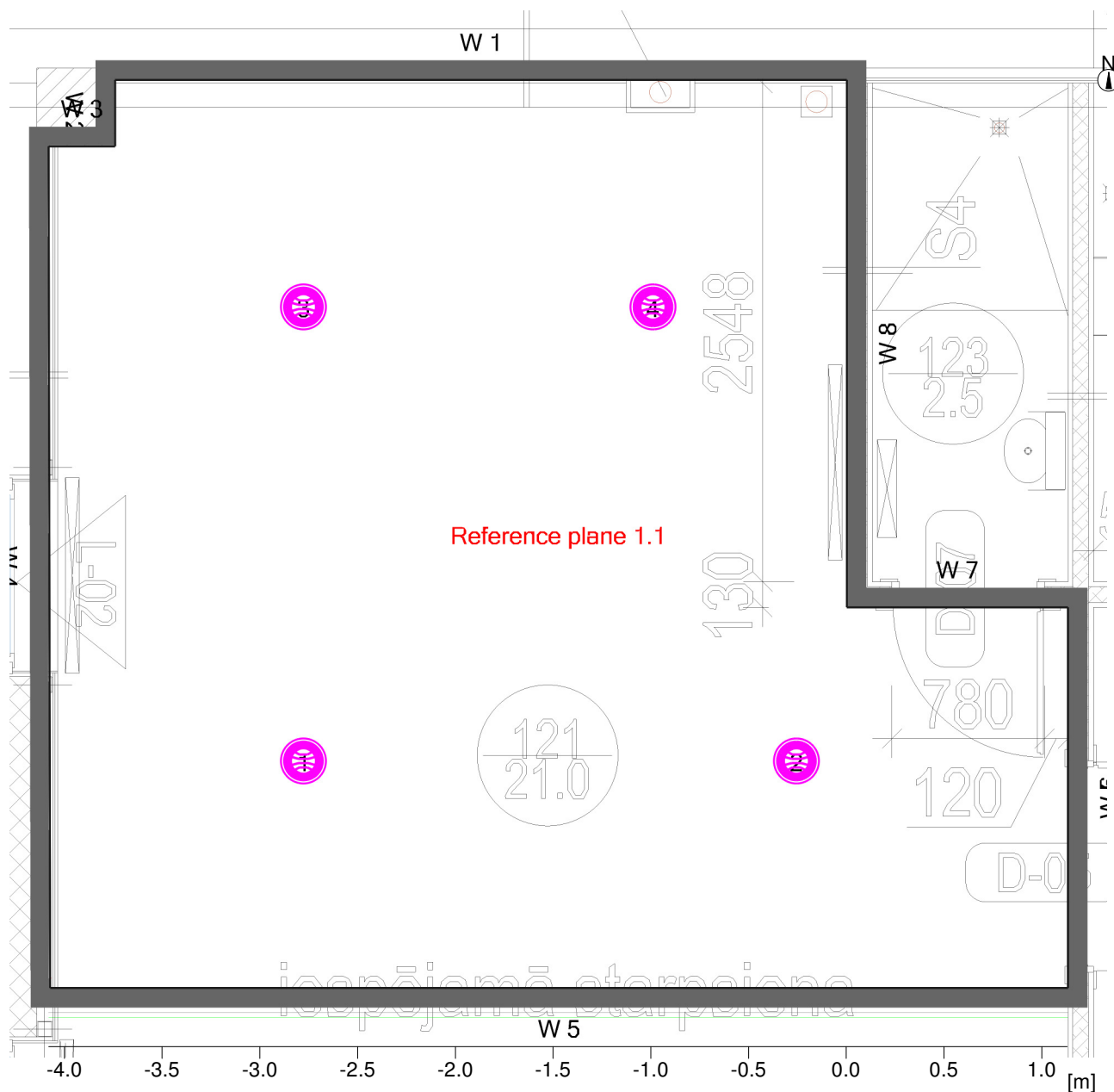
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21 121

21.1 Description, 121

21.1.1 Floor plan

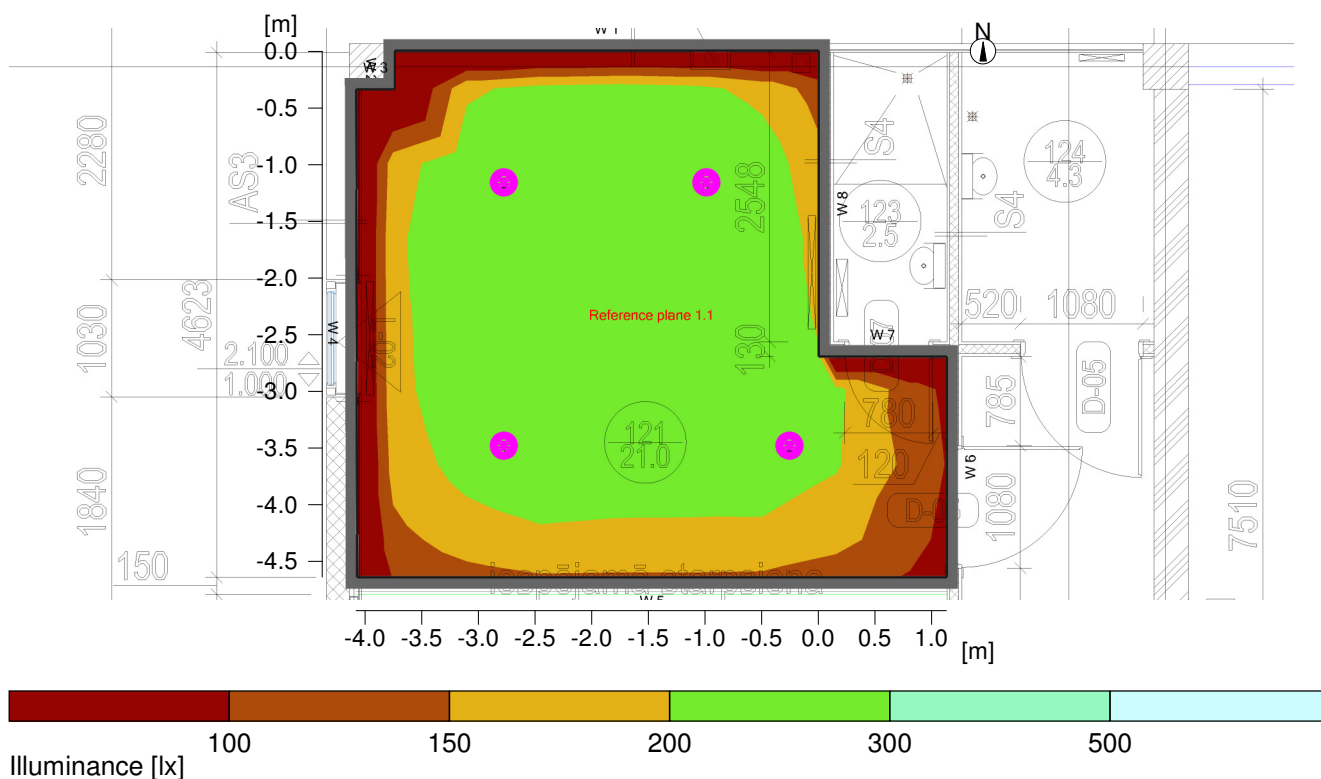


Wall	x	y	Length	Reflectance
1	68.30 m	245.97 m	3.74 m	50.0 %
2	68.30 m	245.63 m	0.34 m	50.0 %
3	67.96 m	245.63 m	0.34 m	50.0 %
4	67.97 m	241.33 m	4.30 m	50.0 %
5	73.17 m	241.33 m	5.20 m	50.0 %
6	73.17 m	243.28 m	1.94 m	50.0 %
7	72.04 m	243.28 m	1.13 m	50.0 %
8	72.04 m	245.97 m	2.70 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.00 m		

21 121

21.2 Summary, 121

21.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 3.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (21.00 m²)

8000.00 lm
 96.0 W
 4.57 W/m² (2.19 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)

Horizontal

Em 209 lx (>= 200 lx)
 Emin 117 lx
 Emin/Eav (Uo) 0.56 (>= 0.40)
 Emin/Emax (Ud) 0.42
 UGR (2.6H 2.9H) <=20.7 (< 25.00)
 Position 0.00 m

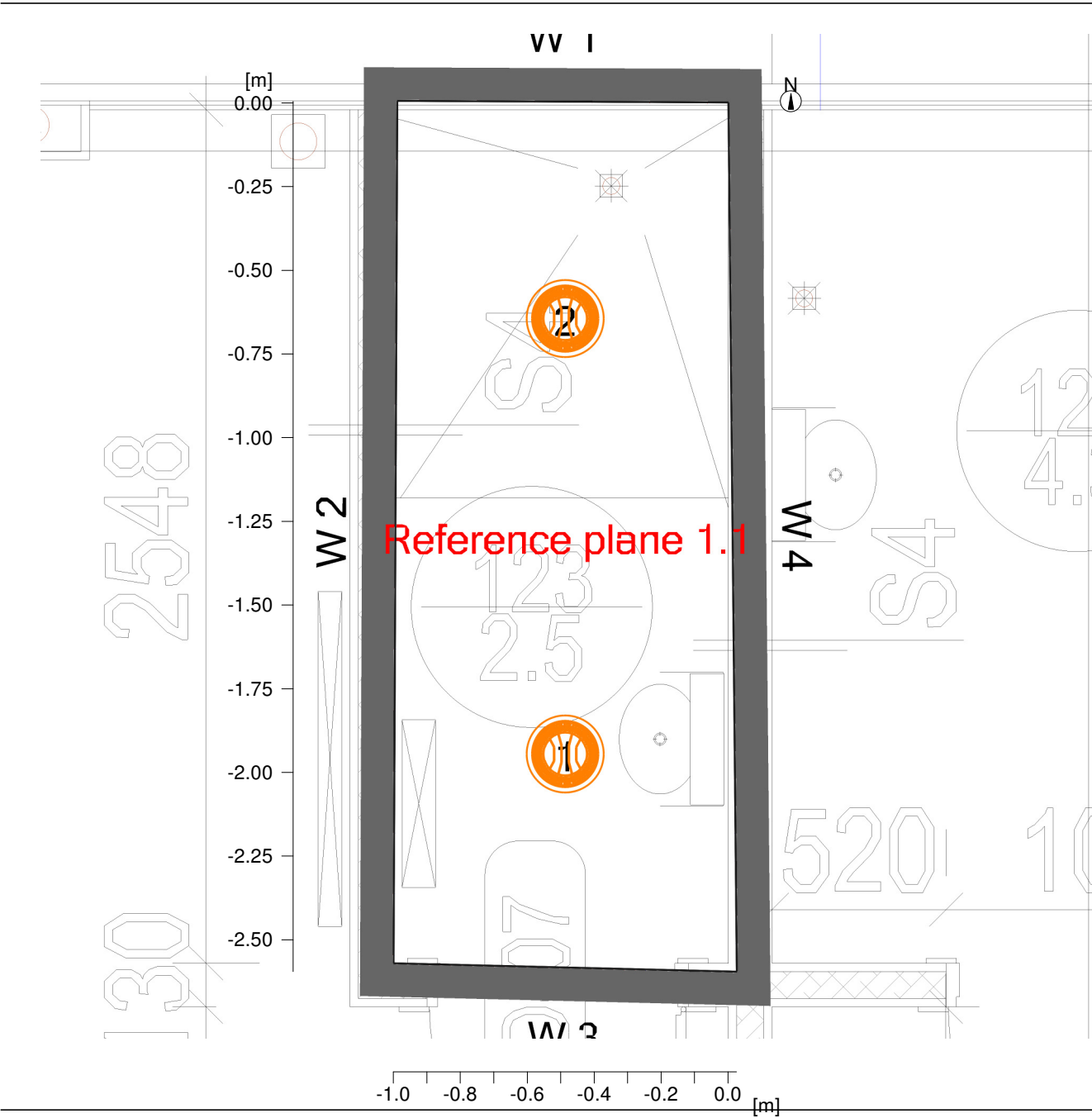
Type No.\Make

2 4 **TRILUX**
 Order No. : 6856651
 Luminaire name : Amatrix G2 C07 HR LED2000-840 01
 Equipment : 1 x 24 W / 2000 lm

22 123

22.1 Description, 123

22.1.1 Floor plan

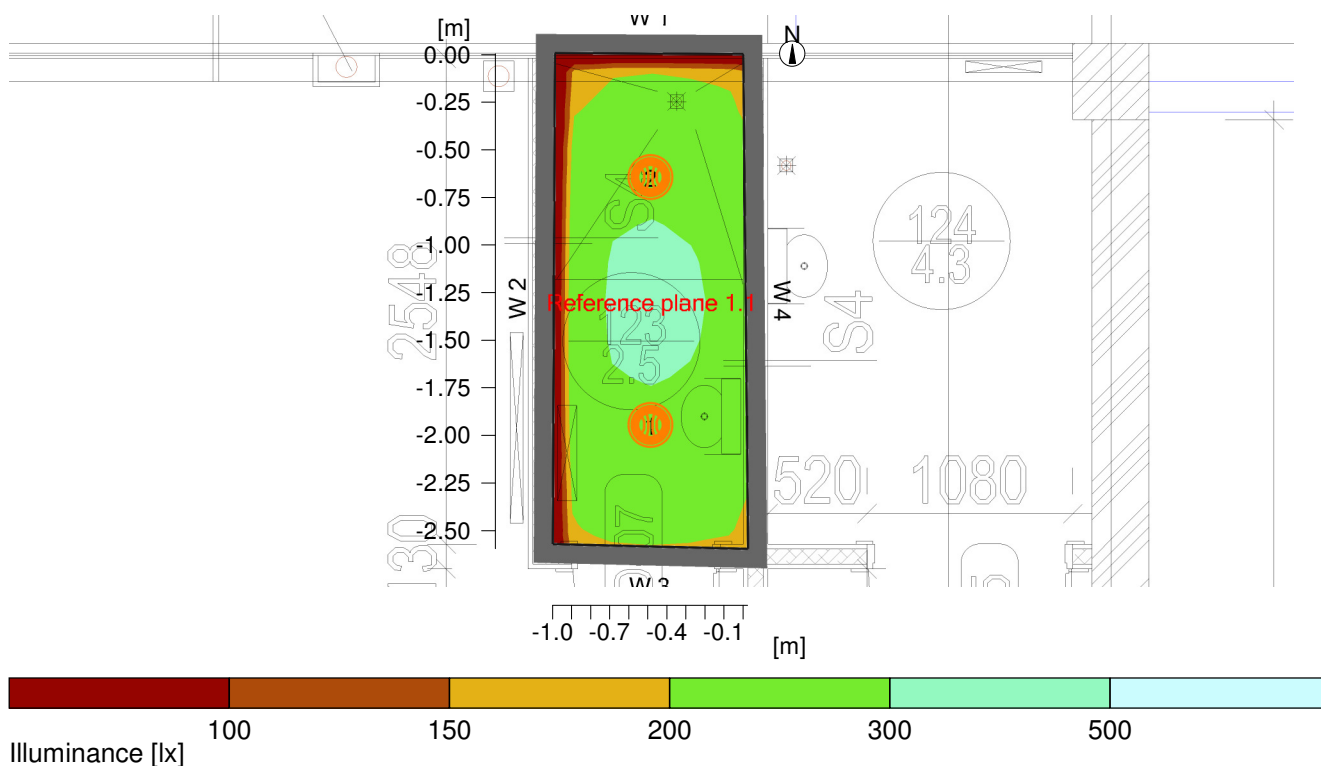


Wall	x	y	Length	Reflectance
1	72.18 m	245.98 m	0.99 m	50.0 %
2	72.17 m	243.41 m	2.57 m	50.0 %
3	73.20 m	243.38 m	1.03 m	50.0 %
4	73.17 m	245.98 m	2.60 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

22 123

22.2 Summary, 123

22.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.50 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (2.60 m²)

3000.00 lm
 34.0 W
 13.06 W/m² (5.30 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)

Horizontal

Em 246 lx (>= 200 lx)
 Emin 163 lx
 Emin/Eav (Uo) 0.66 (>= 0.40)
 Emin/Emax (Ud) 0.54
 UGR (0.8H 2.0H) <=19.6 (< 25.00)
 Position 0.00 m

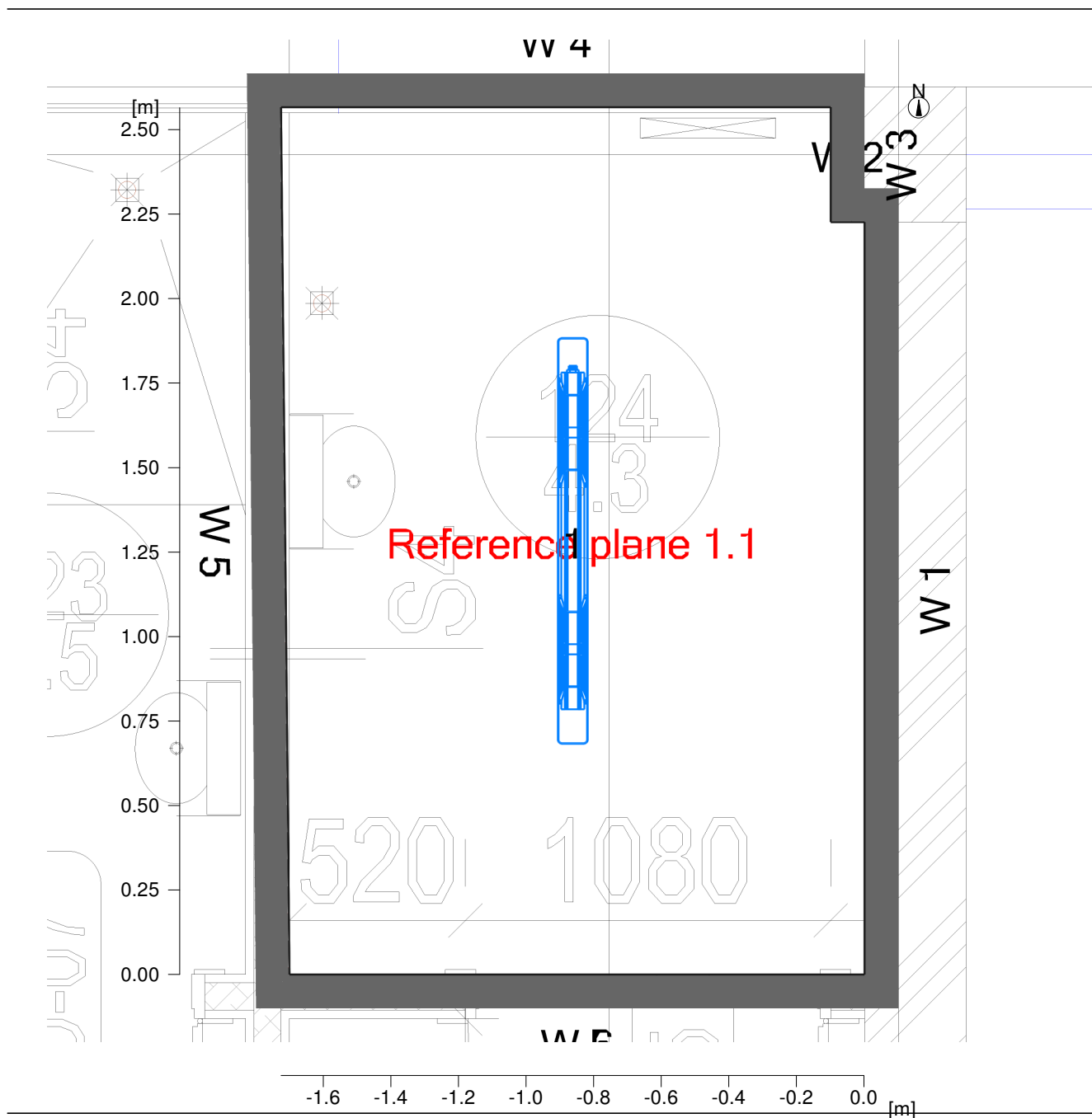
Type No.\Make

3 2 **TRILUX**
 Order No. : 6856451
 Luminaire name : Amatrix G2 C07 HR LED1400-840 01
 Equipment : 1 x 17 W / 1500 lm

23 124

23.1 Description, 124

23.1.1 Floor plan

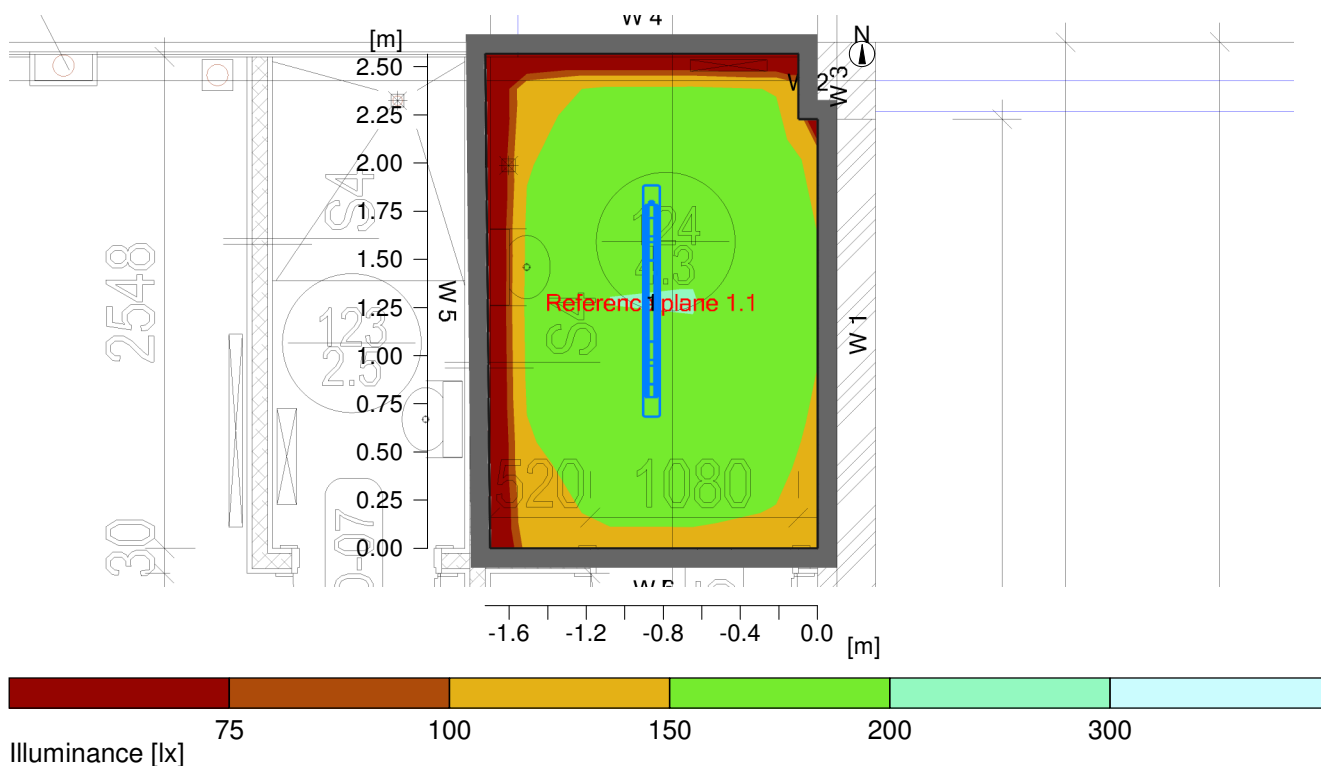


Wall	x	y	Length	Reflectance
1	75.00 m	245.63 m	2.23 m	50.0 %
2	74.90 m	245.63 m	0.10 m	50.0 %
3	74.90 m	245.97 m	0.34 m	50.0 %
4	73.28 m	245.97 m	1.63 m	50.0 %
5	73.30 m	243.41 m	2.57 m	50.0 %
6	75.00 m	243.41 m	1.70 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.00 m		

23 124

23.2 Summary, 124

23.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	3.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	4000.00 lm
Total power	36.0 W
Total power per area (4.36 m²)	8.26 W/m² (5.12 W/m²/100lx)

Evaluation area 1

User profile	Reference plane 1.1
	General areas inside buildings - Store rooms, cold stores
	5.4.1 (EN 12464-1, 8.2011) Store and stockrooms (Ra >60.00)
	Horizontal
Em	161 lx (>= 100 lx)
Emin	124 lx
Emin/Eav (Uo)	0.77 (>= 0.40)
Emin/Emax (Ud)	0.65
UGR (2.0H 2.0H)	<=19.7 (< 25.00)
Position	0.00 m

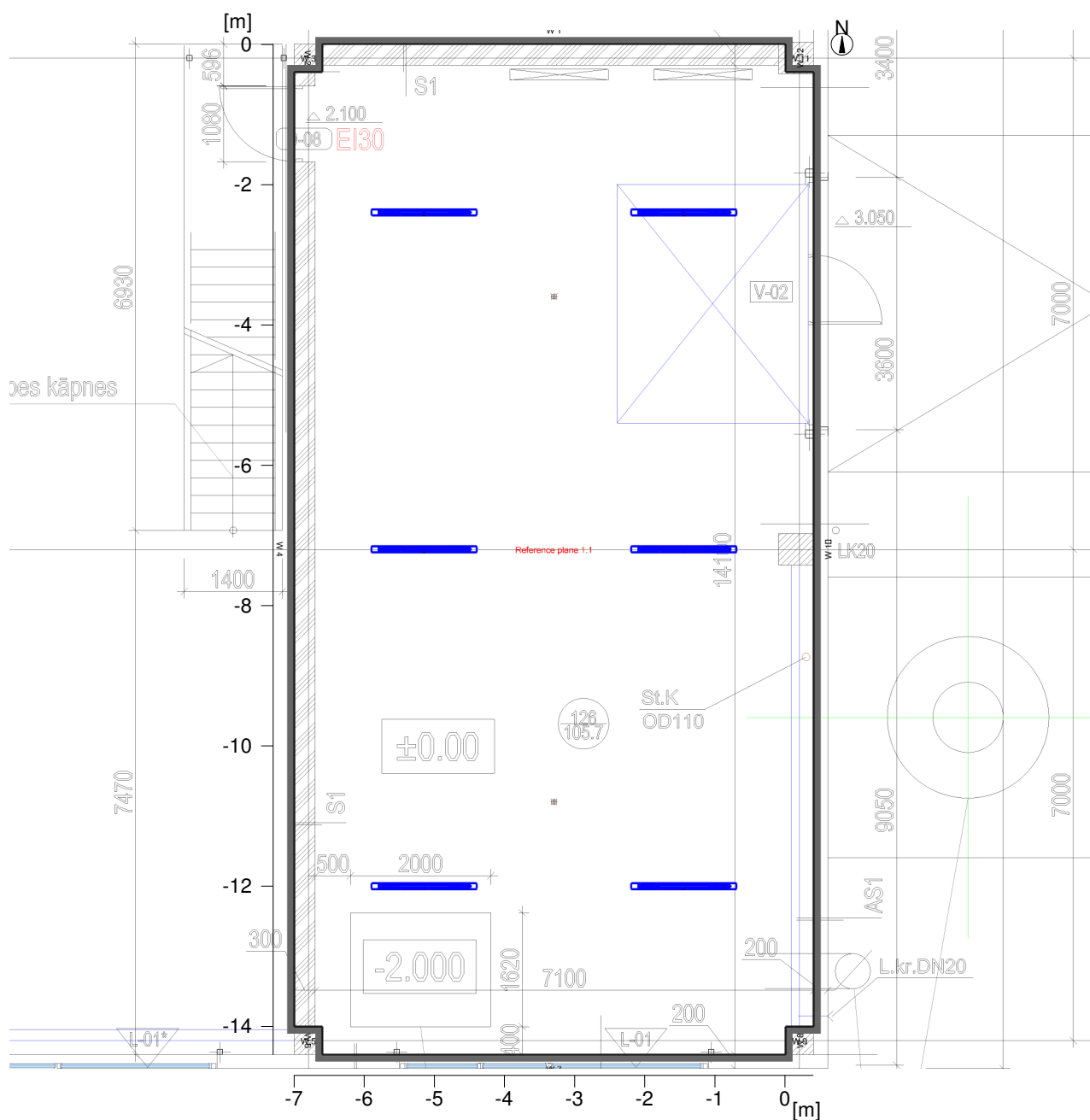
Type No. Make

10	1	TRILUX
		Order No. : 6815451
		Luminaire name : Olexeon 1200 B 4000-840
		Equipment : 1 x 36 W / 4000 lm

25 126

25.1 Description, 126

25.1.1 Floor plan



Object : Ventspils Ganību iela
Installation : Darba apgaismojums
Project number : 1
Date : 05.02.2018



25 126

25.1 Description, 126

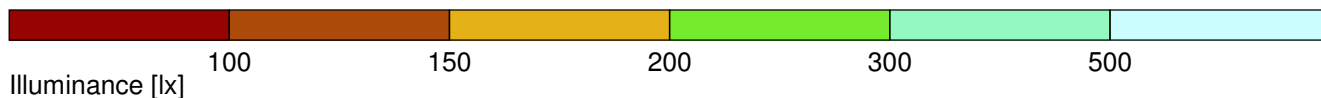
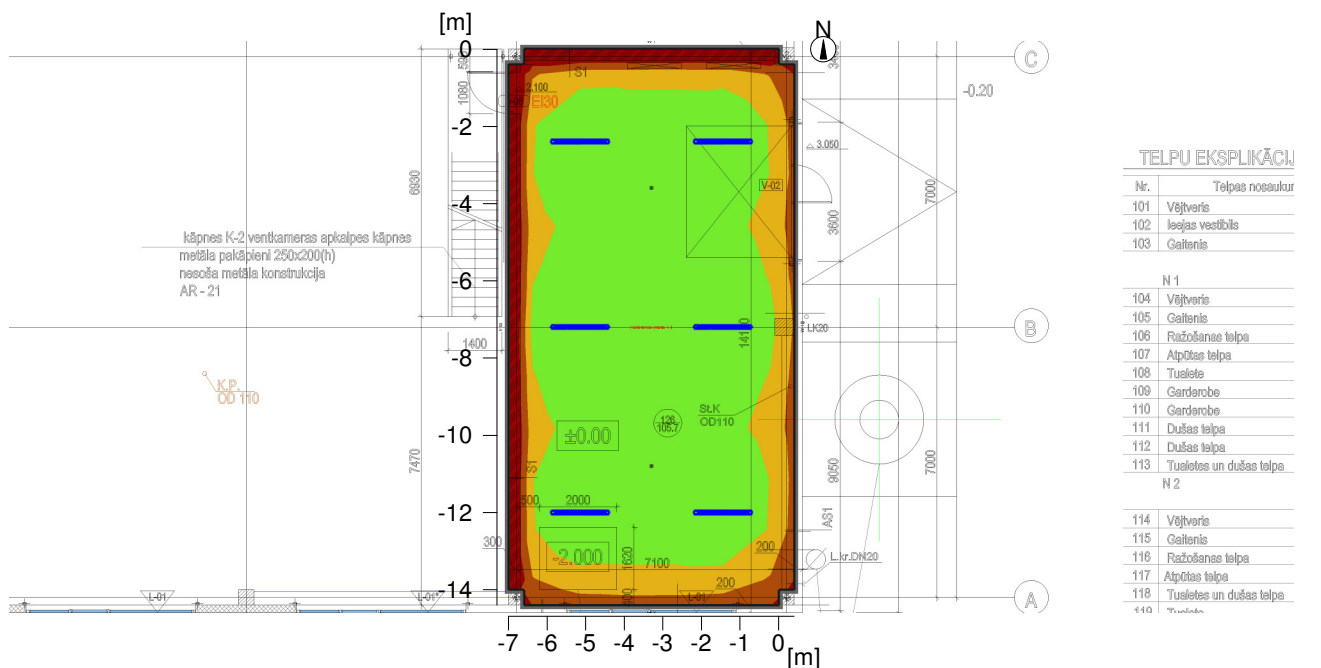
25.1.1 Floor plan

Wall	x	y	Length	Reflectance
1	138.30 m	211.03 m	6.60 m	50.0 %
2	138.30 m	210.63 m	0.40 m	50.0 %
3	137.90 m	210.63 m	0.40 m	50.0 %
4	137.90 m	197.03 m	13.60 m	50.0 %
5	138.30 m	197.03 m	0.40 m	50.0 %
6	138.30 m	196.63 m	0.40 m	50.0 %
7	144.90 m	196.63 m	6.60 m	50.0 %
8	144.90 m	197.03 m	0.40 m	50.0 %
9	145.30 m	197.03 m	0.40 m	50.0 %
10	145.30 m	210.63 m	13.60 m	50.0 %
11	144.90 m	210.63 m	0.40 m	50.0 %
12	144.90 m	211.03 m	0.40 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.00 m		

25 126

25.2 Summary, 126

25.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 3.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (105.92 m²)

34200.00 lm
 318.0 W
 3.00 W/m² (1.45 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Control rooms
 5.3.1 (EN 12464-1, 8.2011) Plant rooms, switch gear rooms (Ra >60.00)
 Horizontal

Em 206 lx (>= 200 lx)
 Emin 138 lx
 Emin/Eav (Uo) 0.67 (>= 0.40)
 Emin/Emax (Ud) 0.53
 UGR (4.3H 8.3H) <=23.9 (< 25.00)
 Position 0.00 m

Type No.\Make

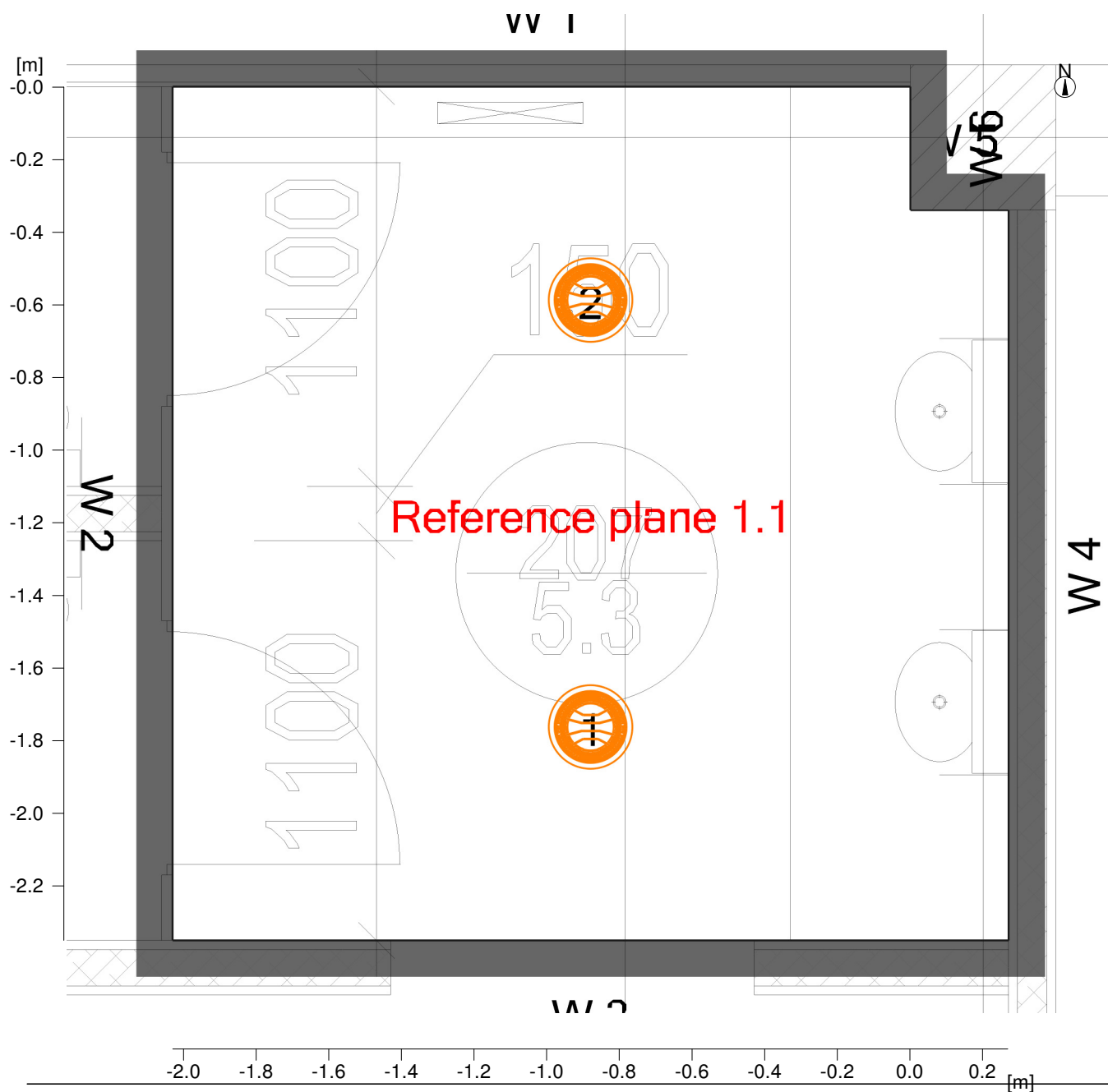
TRILUX

11 6 Order No. : 6815240
 Luminaire name : Olexeon 1500 B 6000-840
 Equipment : 1 x 53 W / 5700 lm

1 207

1.1 Description, 207

1.1.1 Floor plan

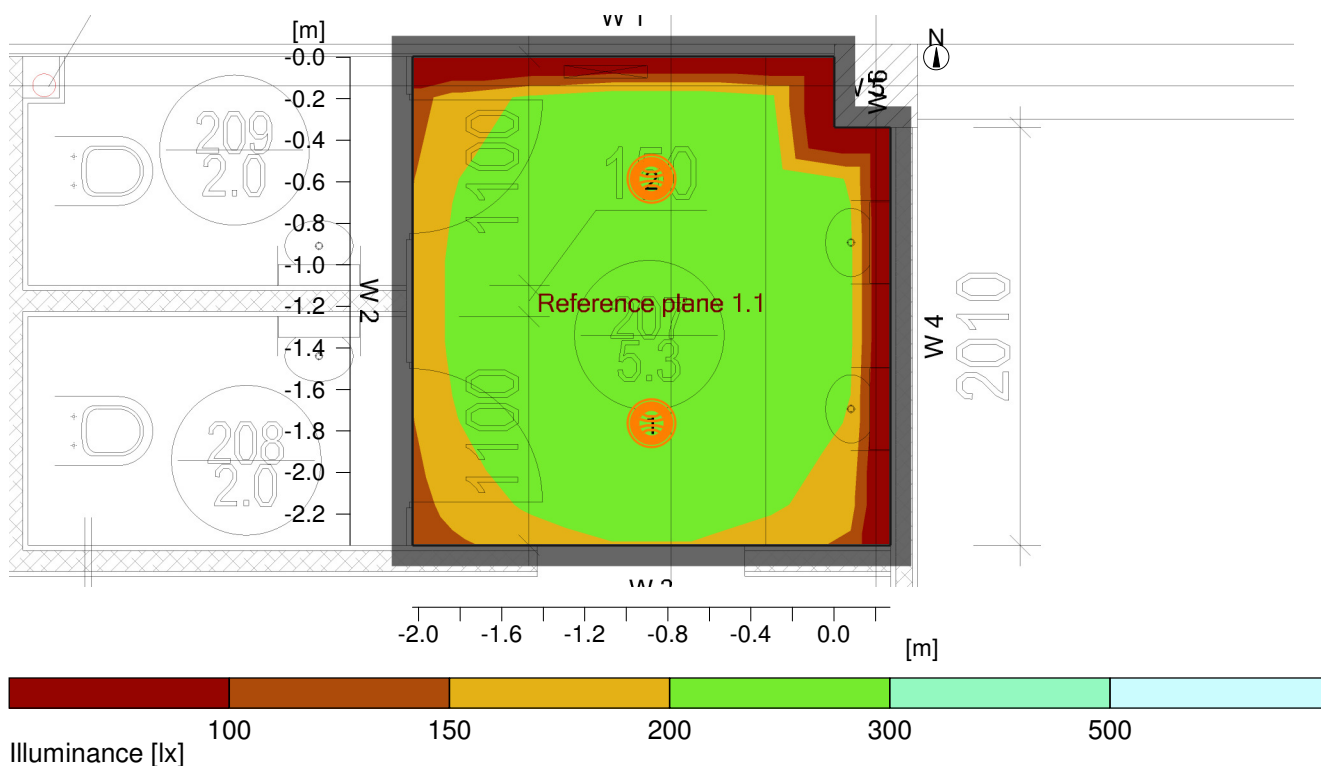


Wall	x	y	Length	Reflectance
1	194.04 m	245.97 m	2.03 m	50.0 %
2	194.04 m	243.62 m	2.35 m	50.0 %
3	196.34 m	243.62 m	2.30 m	50.0 %
4	196.34 m	245.63 m	2.01 m	50.0 %
5	196.07 m	245.63 m	0.27 m	50.0 %
6	196.07 m	245.97 m	0.34 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

1 207

1.2 Summary, 207

1.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 2.50 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (5.31 m²)

3000.00 lm
 34.0 W
 6.40 W/m² (2.86 W/m²/100lx)

Evaluation area 1

User profile

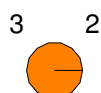
Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)

Horizontal

Em 224 lx (>= 200 lx)
 Emin 160 lx
 Emin/Eav (Uo) 0.71 (>= 0.40)
 Emin/Emax (Ud) 0.56
 UGR (2.0H 2.0H) <=19.6 (< 25.00)
 Position 0.00 m

Type No.\Make



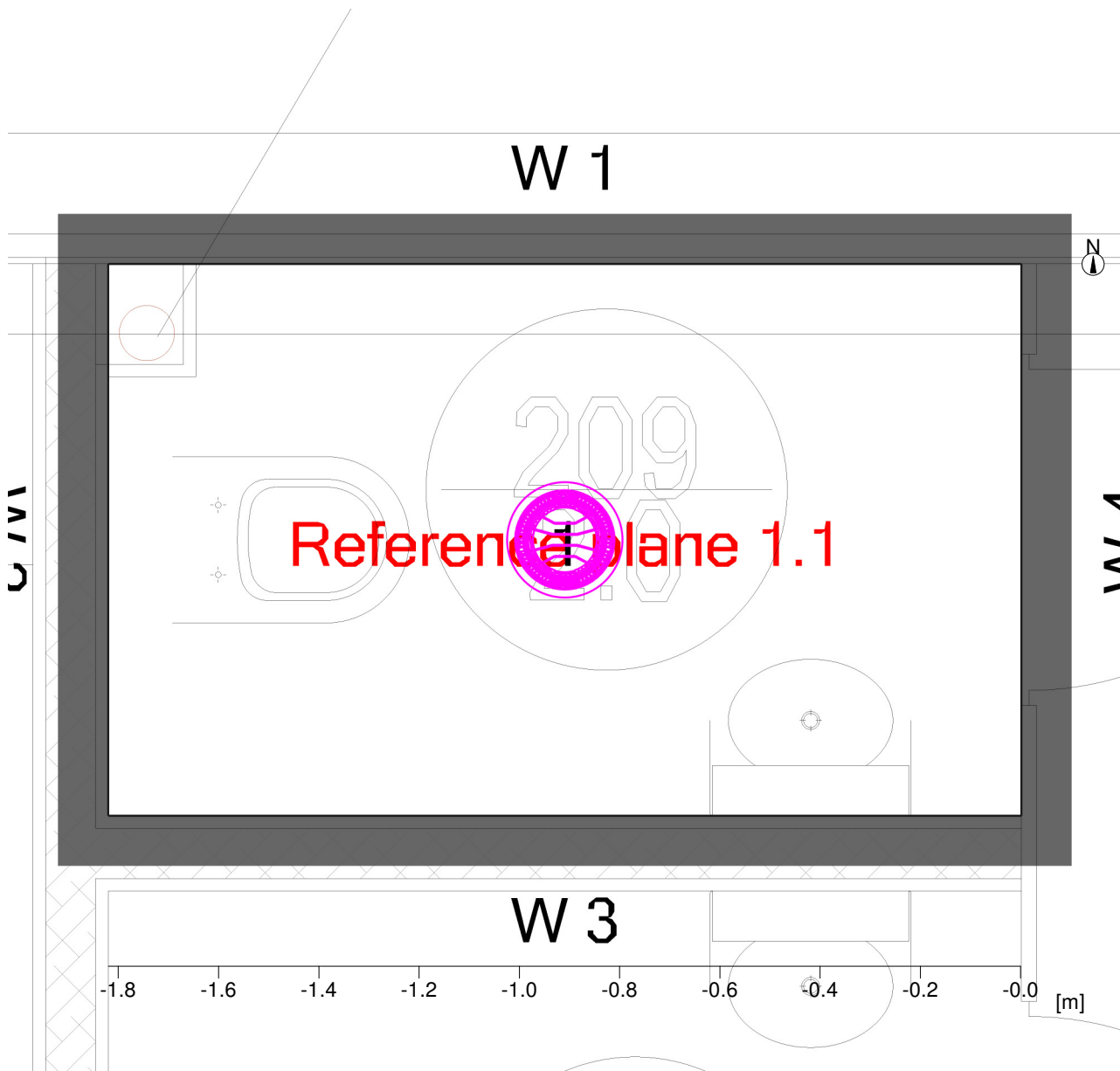
TRILUX

Order No. : 6856451
 Luminaire name : Amatrix G2 C07 HR LED1400-840 01
 Equipment : 1 x 17 W / 1500 lm

2 209

2.1 Description, 209

2.1.1 Floor plan



Wall	x	y	Length	Reflectance
1	192.19 m	245.97 m	1.82 m	50.0 %
2	192.19 m	244.87 m	1.10 m	50.0 %
3	194.01 m	244.87 m	1.82 m	50.0 %
4	194.01 m	245.97 m	1.10 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

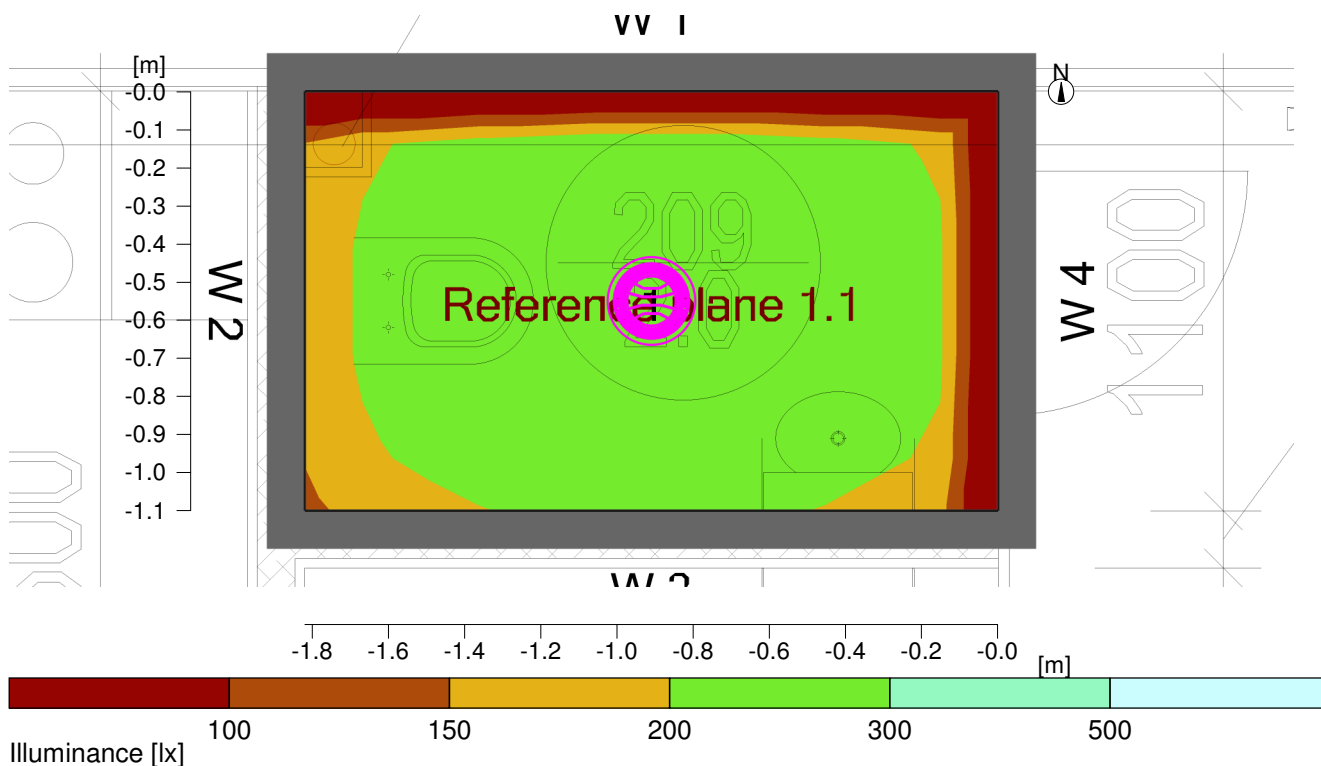
Object : Ventspils Ganību iela
 Installation : Darba apgaismojums
 Project number : 1
 Date : 05.02.2018

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2 209

2.2 Summary, 209

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.50 m
Maintenance factor	0.80
Total luminous flux of all lamps	2000.00 lm
Total power	24.0 W
Total power per area (2.00 m²)	11.99 W/m² (5.49 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)

Horizontal

Em	218 lx	(>= 200 lx)
Emin	182 lx	
Emin/Eav (Uo)	0.83	(>= 0.40)
Emin/Emax (Ud)	0.72	
UGR (2.0H 2.0H)	<=20.5	(< 25.00)
Position	0.00 m	

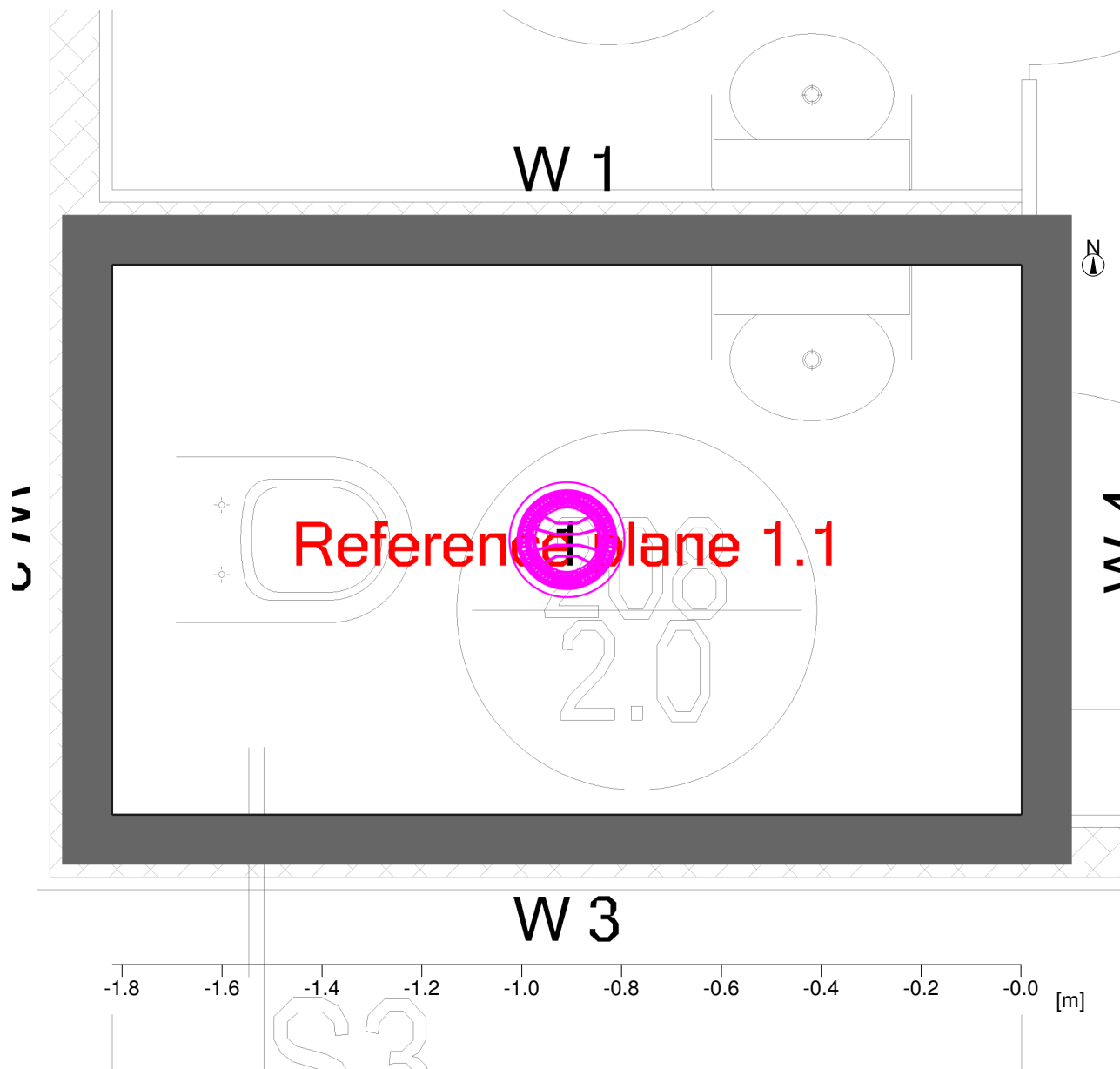
Type No.\Make

2	1	TRILUX
		Order No. : 6856651
		Luminaire name : Amatrix G2 C07 HR LED2000-840 01
		Equipment : 1 x 24 W / 2000 lm

3 208

3.1 Description, 208

3.1.1 Floor plan

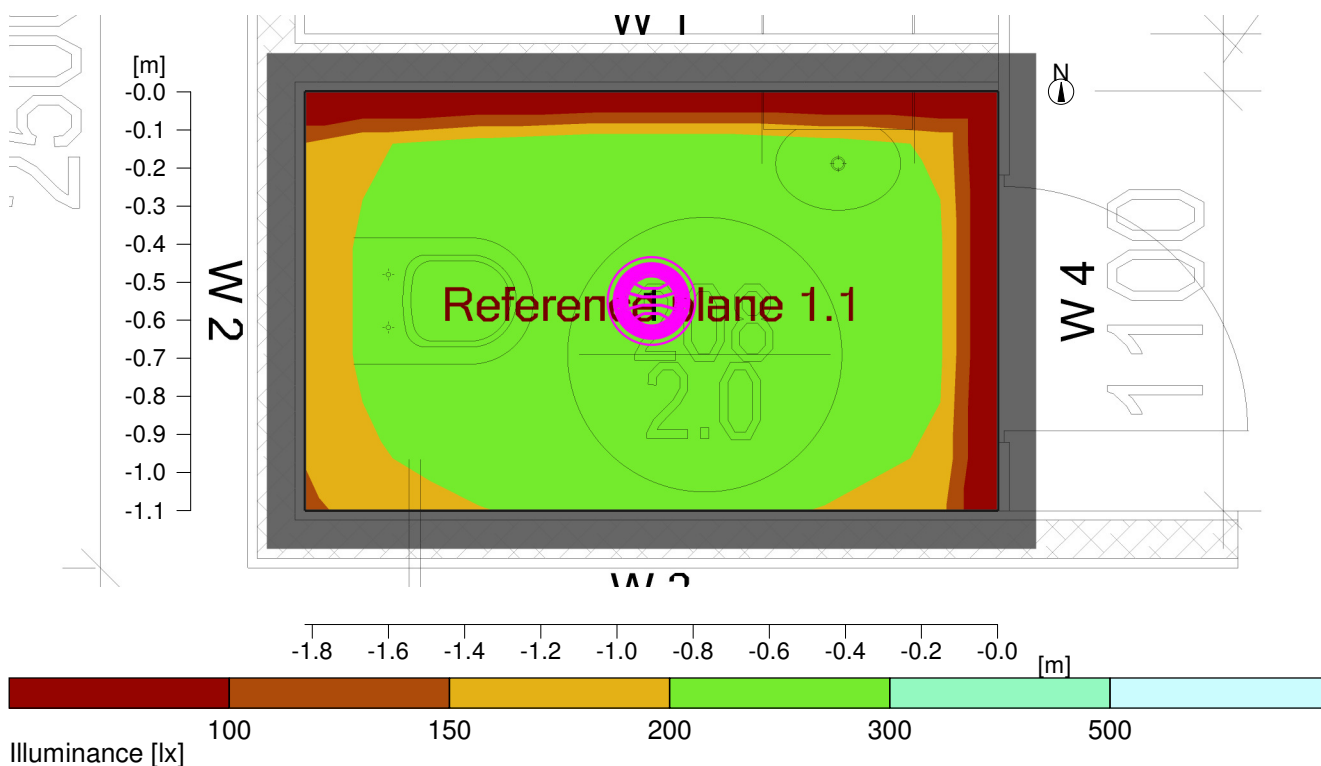


Wall	x	y	Length	Reflectance
1	192.19 m	244.72 m	1.82 m	50.0 %
2	192.19 m	243.62 m	1.10 m	50.0 %
3	194.01 m	243.62 m	1.82 m	50.0 %
4	194.01 m	244.72 m	1.10 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

3 208

3.2 Summary, 208

3.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.50 m
Maintenance factor	0.80
Total luminous flux of all lamps	2000.00 lm
Total power	24.0 W
Total power per area (2.00 m²)	11.99 W/m² (5.49 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)

Horizontal

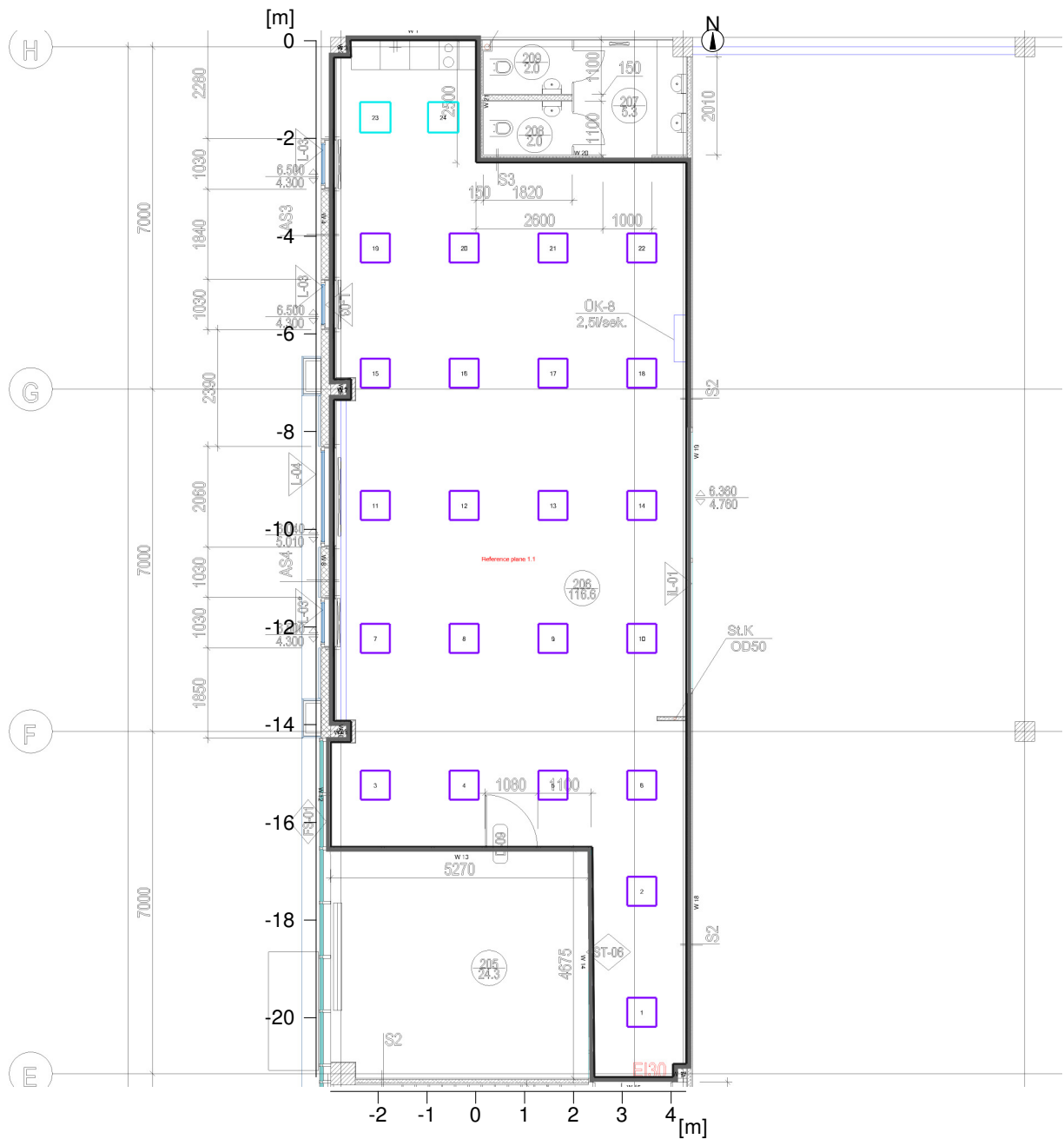
Em	218 lx	(>= 200 lx)
Emin	182 lx	
Emin/Eav (Uo)	0.83	(>= 0.40)
Emin/Emax (Ud)	0.72	
UGR (2.0H 2.0H)	<=20.5	(< 25.00)
Position	0.00 m	

Type No.\Make

2	1	TRILUX
		Order No. : 6856651
		Luminaire name : Amatrix G2 C07 HR LED2000-840 01
		Equipment : 1 x 24 W / 2000 lm

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4.1.1 Floor plan



Object : Ventspils Ganību iela
 Installation : Darba apgaismojums
 Project number : 1
 Date : 05.02.2018



4 206

4.1 Description, 206

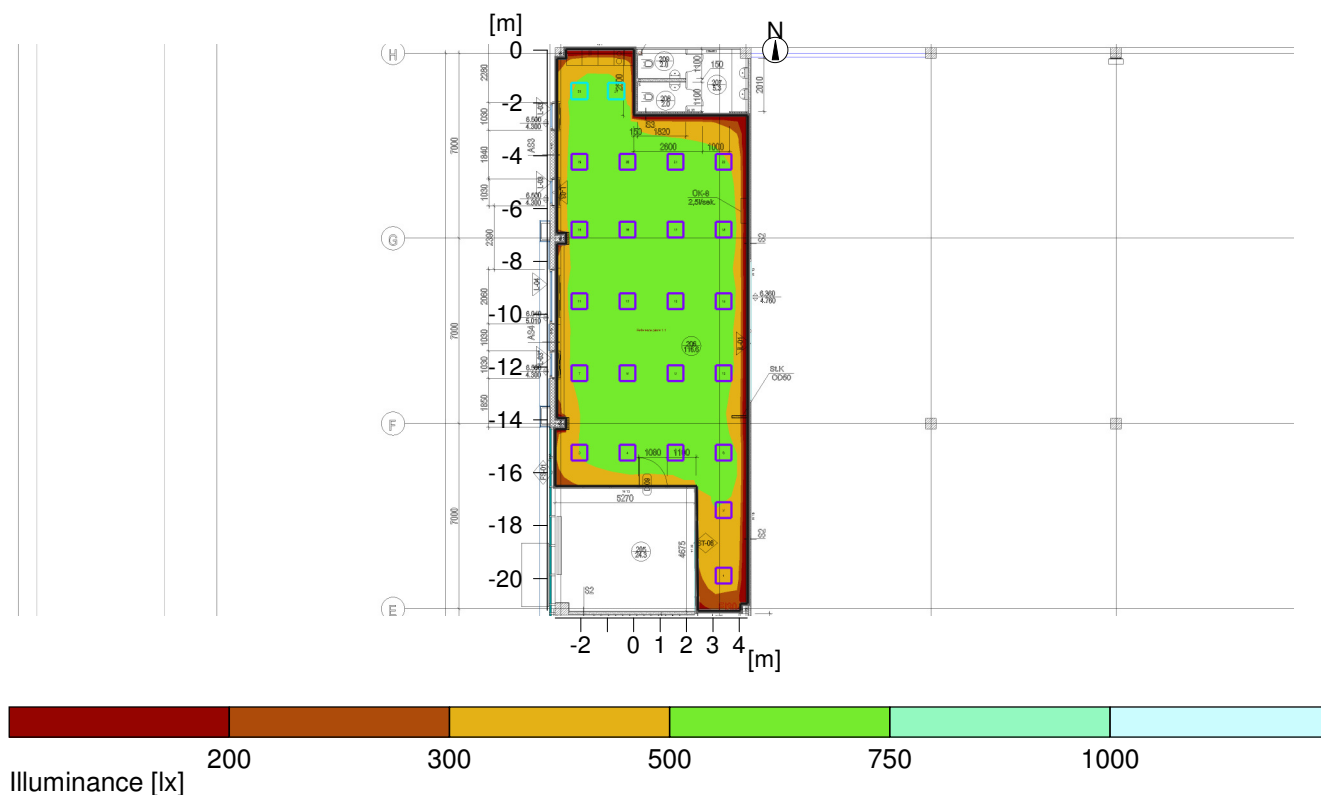
4.1.1 Floor plan

Wall	x	y	Length	Reflectance
1	189.47 m	245.97 m	2.57 m	50.0 %
2	189.48 m	245.62 m	0.35 m	50.0 %
3	189.13 m	245.62 m	0.35 m	50.0 %
4	189.13 m	239.03 m	6.59 m	50.0 %
5	189.48 m	239.05 m	0.35 m	50.0 %
6	189.48 m	238.62 m	0.43 m	50.0 %
7	189.13 m	238.62 m	0.35 m	50.0 %
8	189.13 m	232.05 m	6.57 m	50.0 %
9	189.48 m	232.05 m	0.35 m	50.0 %
10	189.48 m	231.62 m	0.43 m	50.0 %
11	189.07 m	231.62 m	0.41 m	50.0 %
12	189.07 m	229.47 m	2.15 m	50.0 %
13	194.42 m	229.47 m	5.35 m	50.0 %
14	194.46 m	224.76 m	4.71 m	50.0 %
15	196.07 m	224.76 m	1.61 m	50.0 %
16	196.07 m	225.03 m	0.27 m	50.0 %
17	196.34 m	225.03 m	0.27 m	50.0 %
18	196.34 m	231.63 m	6.60 m	50.0 %
19	196.34 m	243.47 m	11.84 m	50.0 %
20	192.04 m	243.47 m	4.30 m	50.0 %
21	192.04 m	245.97 m	2.50 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.75 m		

4 206

4.2 Summary, 206

4.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 3.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (116.80 m²)

95800.00 lm
 768.0 W
 6.58 W/m² (1.19 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

Offices
 5.26.2 (EN 12464-1, 8.2011) Writing, typing, reading, data processing (Ra >80.00)
 Horizontal
 554 lx (>= 500 lx)
 210 lx
 0.38 (>= 0.60)
 0.29
 0.75 m

Type No.\Make

17 2



TRILUX

Order No. : 6884740
 Luminaire name : ArimoS M84 CDP-IP LED4000-840
 Equipment : 1 x 32 W / 3900 lm


Object : Ventspils Ganību iela
Installation : Darba apgaismojums
Project number : 1
Date : 05.02.2018

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4 206

4.2 Summary, 206

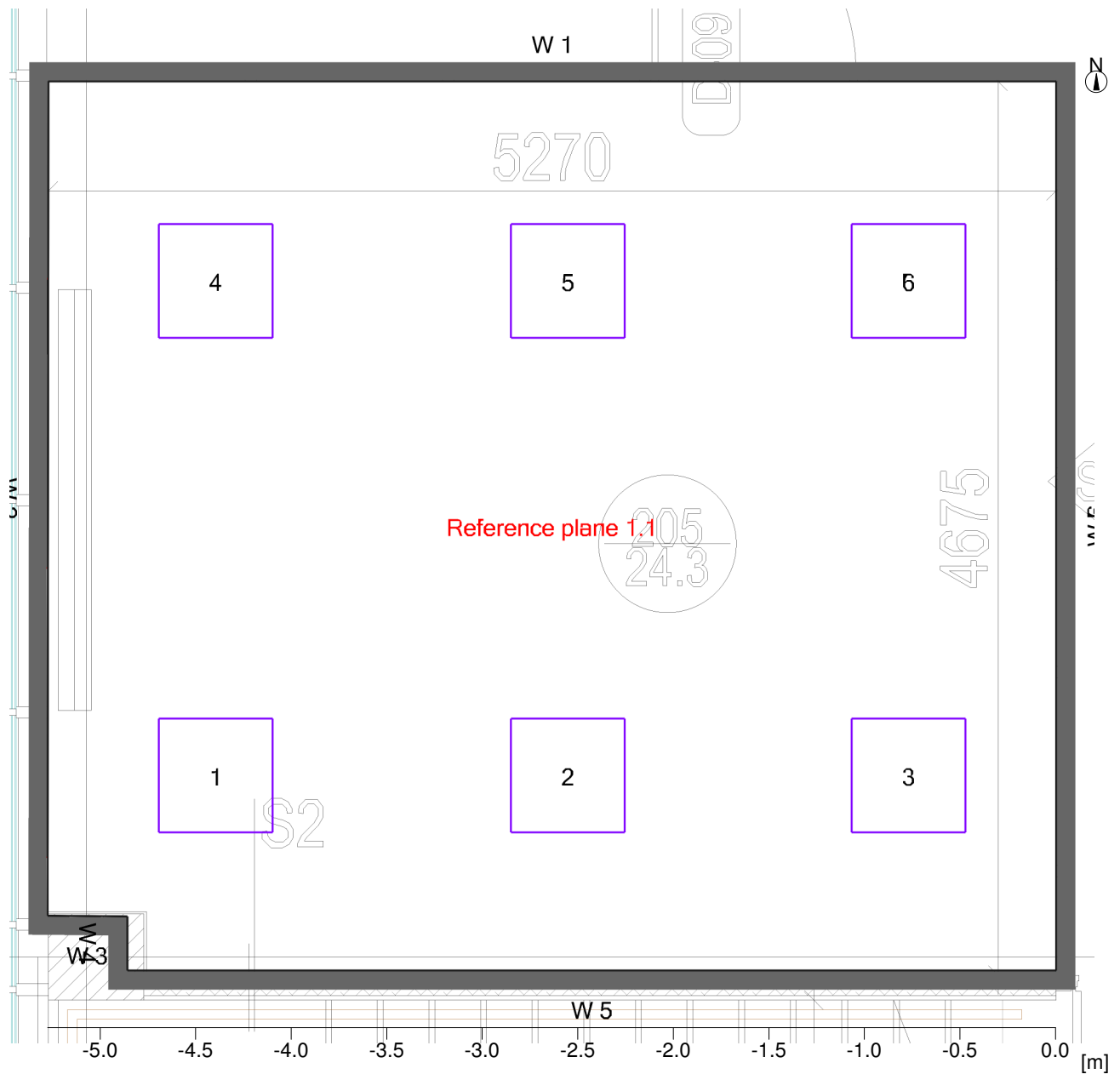
4.2.1 Result overview, Evaluation area 1

20	22	Order No.	: 6325640
		Luminaire name	: ArimoS M73 CDP LED4000-840
		Equipment	: 1 x 32 W / 4000 lm

5 205

5.1 Description, 205

5.1.1 Floor plan

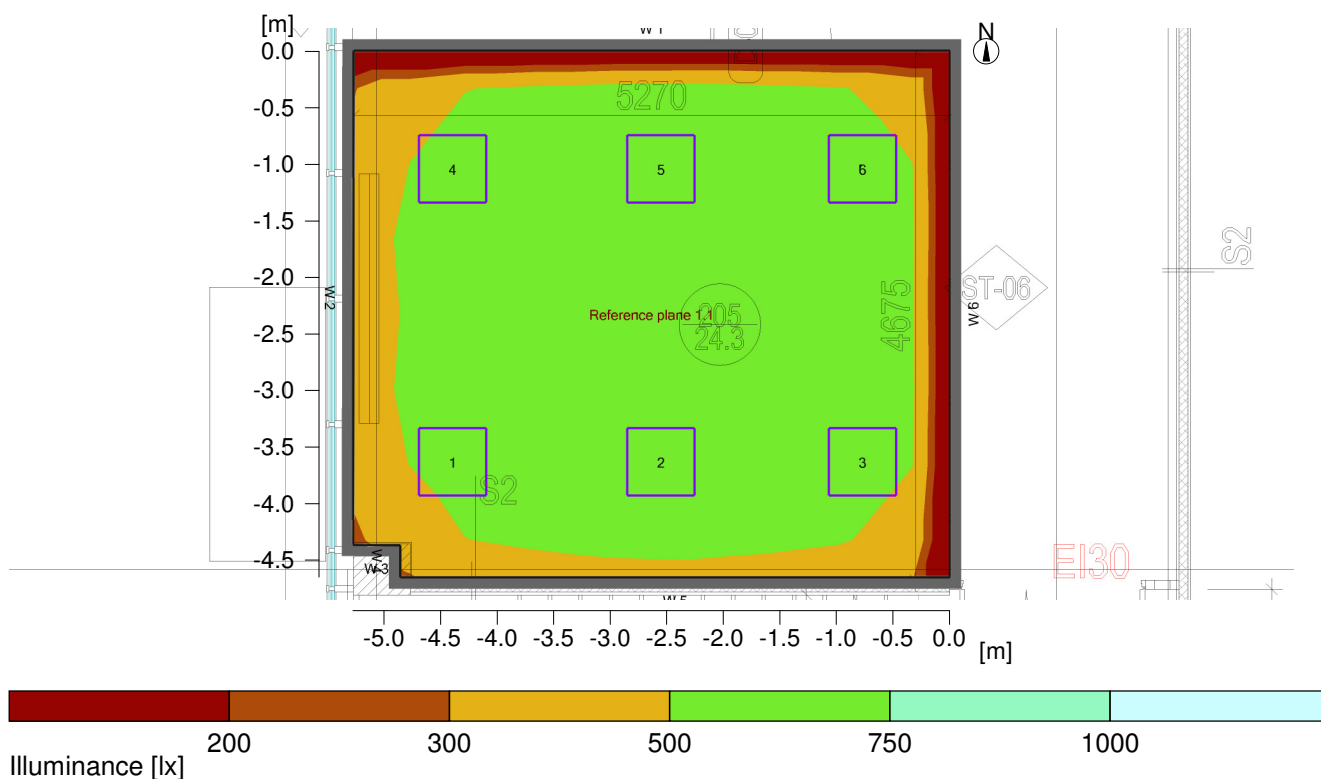


Wall	x	y	Length	Reflectance
1	189.07 m	229.41 m	5.27 m	50.0 %
2	189.07 m	225.05 m	4.36 m	50.0 %
3	189.48 m	225.05 m	0.42 m	50.0 %
4	189.48 m	224.76 m	0.28 m	50.0 %
5	194.34 m	224.76 m	4.86 m	50.0 %
6	194.34 m	229.41 m	4.65 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.75 m		

5 205

5.2 Summary, 205

5.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 3.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (24.40 m²)

24000.00 lm
 192.0 W
 7.87 W/m² (1.42 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

Offices
 5.26.2 (EN 12464-1, 8.2011) Writing, typing, reading, data processing (Ra >80.00)
 Horizontal
 Em 554 lx (>= 500 lx)
 Emin 344 lx
 Emin/Eav (Uo) 0.62 (>= 0.60)
 Emin/Emax (Ud) 0.51
 UGR (2.9H 2.6H) <=16.7 (< 19.00)
 Position 0.75 m

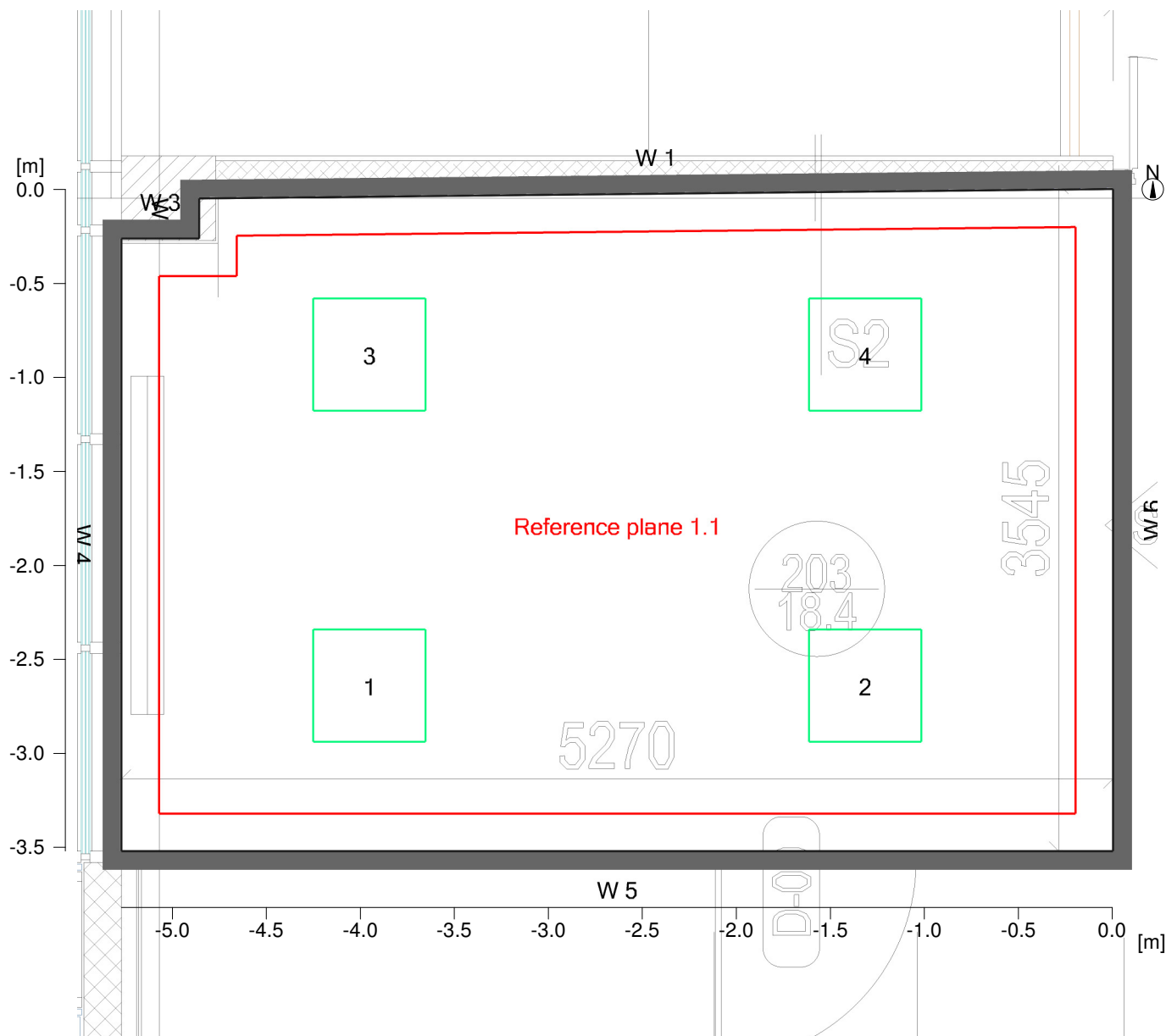
Type No.\Make

20 6 **TRILUX**
 Order No. : 6325640
 Luminaire name : ArimoS M73 CDP LED4000-840
 Equipment : 1 x 32 W / 4000 lm

6 203

6.1 Description, 203

6.1.1 Floor plan

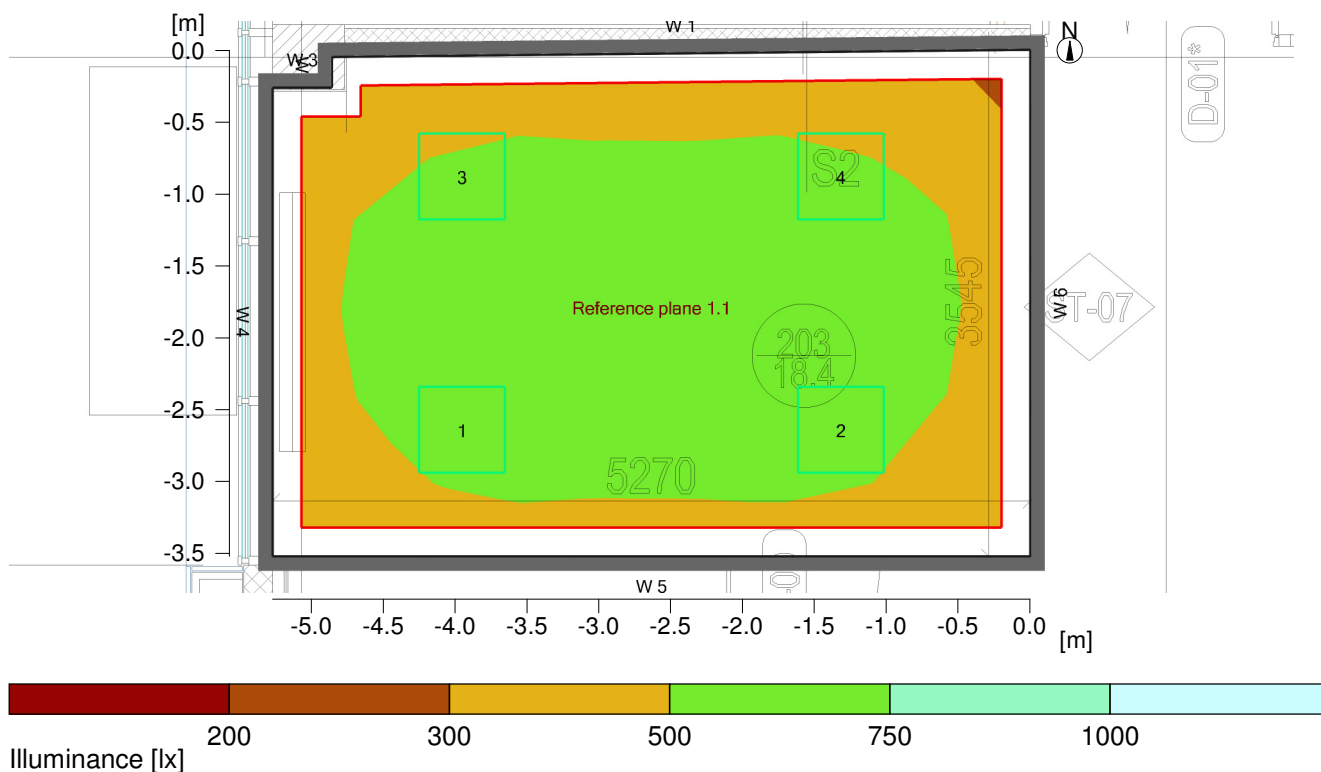


Wall	x	y	Length	Reflectance
1	189.48 m	217.83 m	4.86 m	50.0 %
2	189.48 m	217.62 m	0.21 m	50.0 %
3	189.07 m	217.62 m	0.41 m	50.0 %
4	189.07 m	214.36 m	3.26 m	50.0 %
5	194.34 m	214.36 m	5.27 m	50.0 %
6	194.34 m	217.88 m	3.52 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.75 m		

6 203

6.2 Summary, 203

6.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 3.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (18.32 m²)

16800.00 lm
 160.0 W
 8.73 W/m² (1.70 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

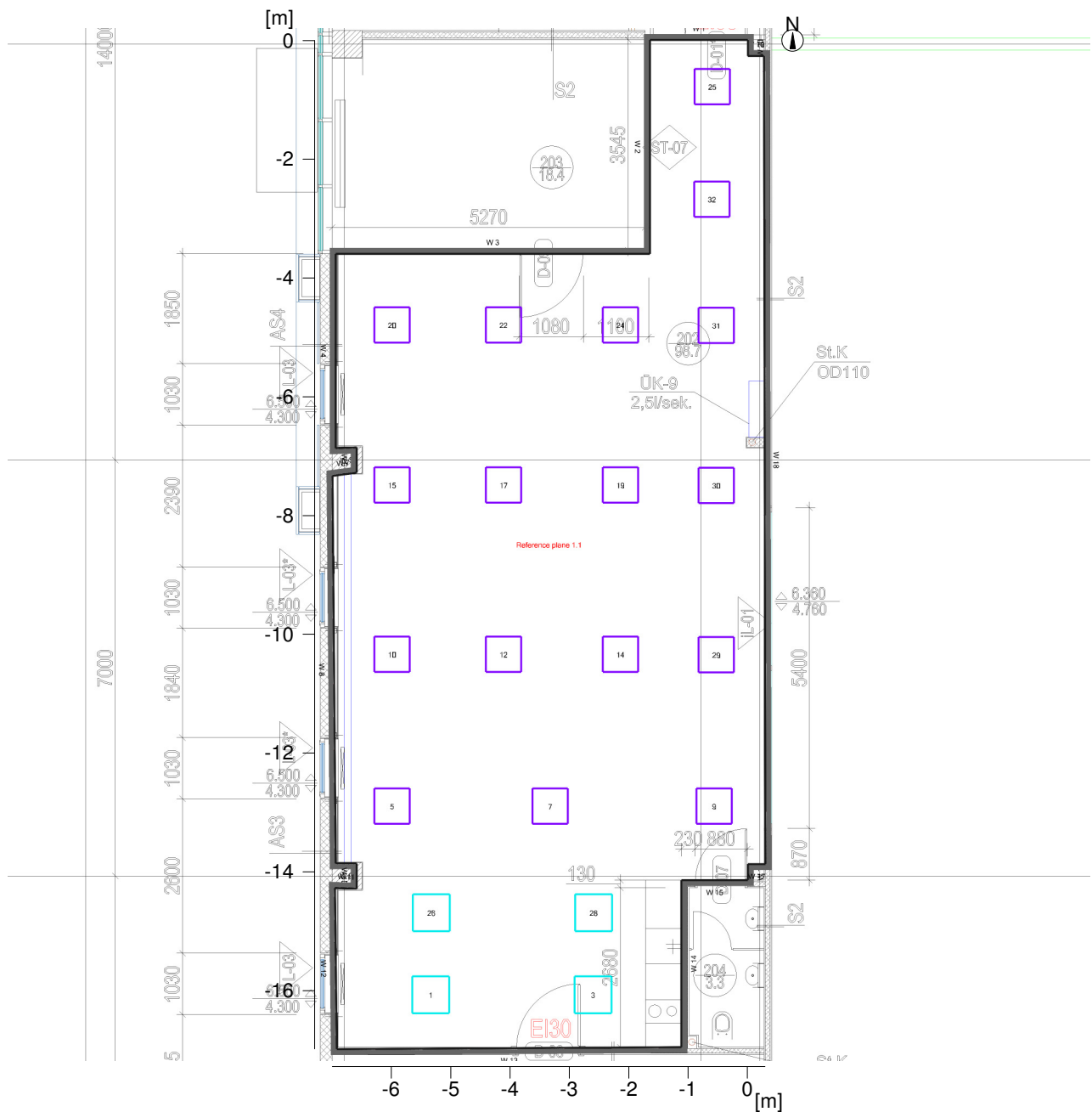
Offices
 5.26.2 (EN 12464-1, 8.2011) Writing, typing, reading, data processing (Ra >80.00)
 Horizontal
 Em 513 lx (>= 500 lx)
 Emin 357 lx
 Emin/Eav (Uo) 0.70 (>= 0.60)
 Emin/Emax (Ud) 0.57
 UGR (2.0H 2.9H) <=16.7 (< 19.00)
 Position 0.75 m

Type No.\Make

18 4 **TRILUX**
 Order No. : 6975851
 Luminaire name : ArimoS Act M73 CDP LED4000 (ActDCW)
 Equipment : 1 x 40 W / 4200 lm

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7.1.1 Floor plan



Object : Ventspils Ganību iela
 Installation : Darba apgaismojums
 Project number : 1
 Date : 05.02.2018



7 202

7.1 Description, 202

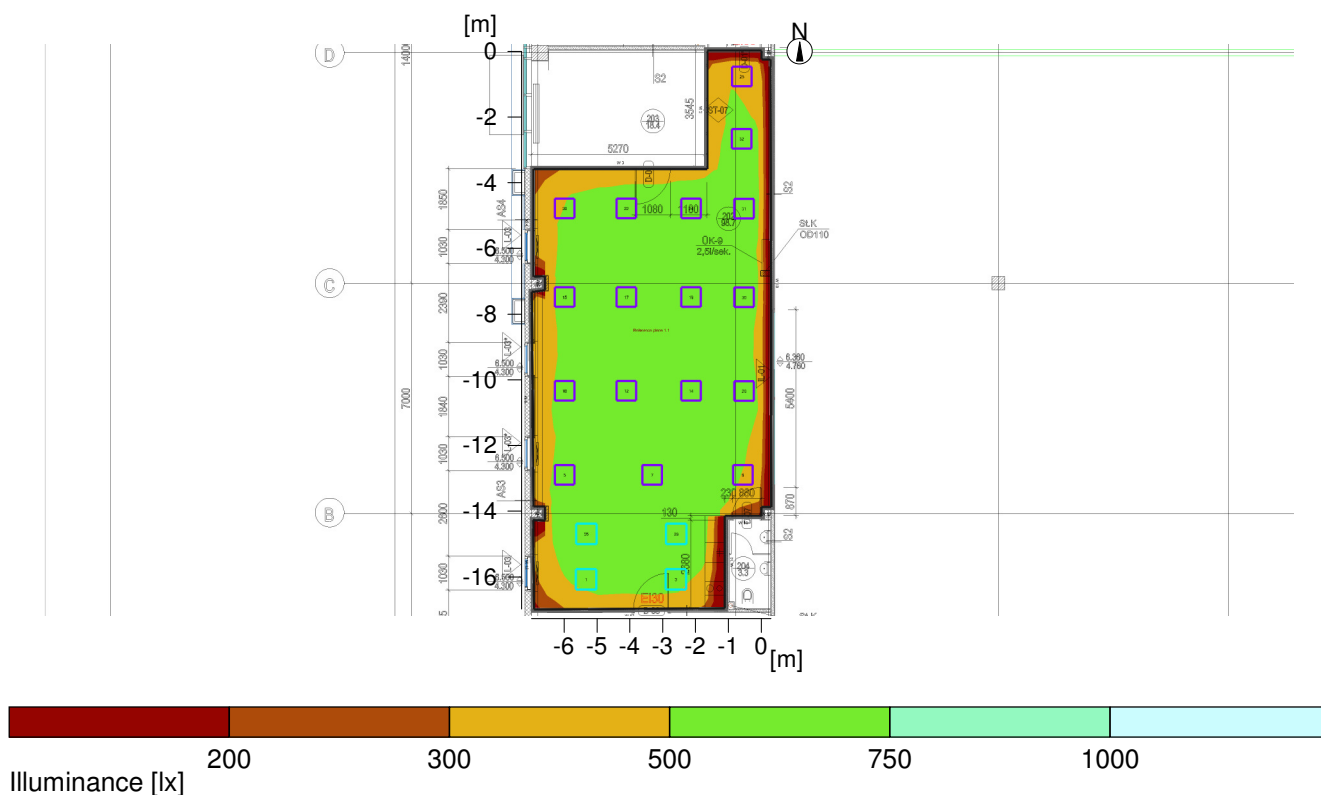
7.1.1 Floor plan

Wall	x	y	Length	Reflectance
1	194.42 m	217.90 m	1.65 m	50.0 %
2	194.42 m	214.30 m	3.60 m	50.0 %
3	189.13 m	214.30 m	5.29 m	50.0 %
4	189.13 m	211.03 m	3.27 m	50.0 %
5	189.48 m	211.05 m	0.35 m	50.0 %
6	189.48 m	210.62 m	0.43 m	50.0 %
7	189.08 m	210.57 m	0.41 m	50.0 %
8	189.13 m	204.05 m	6.52 m	50.0 %
9	189.48 m	204.05 m	0.35 m	50.0 %
10	189.48 m	203.62 m	0.43 m	50.0 %
11	189.12 m	203.63 m	0.37 m	50.0 %
12	189.15 m	200.92 m	2.71 m	50.0 %
13	194.95 m	200.95 m	5.80 m	50.0 %
14	194.95 m	203.76 m	2.81 m	50.0 %
15	196.07 m	203.76 m	1.12 m	50.0 %
16	196.07 m	204.03 m	0.27 m	50.0 %
17	196.37 m	204.03 m	0.30 m	50.0 %
18	196.34 m	217.63 m	13.60 m	50.0 %
19	196.07 m	217.63 m	0.27 m	50.0 %
20	196.07 m	217.90 m	0.27 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.75 m		

7 202

7.2 Summary, 202

7.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 3.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (99.25 m²)

83600.00 lm
 672.0 W
 6.77 W/m² (1.21 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

Offices
 5.26.2 (EN 12464-1, 8.2011) Writing, typing, reading, data processing (Ra >80.00)
 Horizontal
 Em 559 lx (>= 500 lx)
 Emin 238 lx
 Emin/Eav (Uo) 0.43 (>= 0.60)
 Emin/Emax (Ud) 0.34
 Position 0.75 m

Type No.\Make

17 4

TRILUX

Order No. : 6884740
 Luminaire name : ArimoS M84 CDP-IP LED4000-840
 Equipment : 1 x 32 W / 3900 lm




Object : Ventspils Ganību iela
Installation : Darba apgaismojums
Project number : 1
Date : 05.02.2018

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7 202

7.2 Summary, 202

7.2.1 Result overview, Evaluation area 1

20	17	Order No.	: 6325640
		Luminaire name	: ArimoS M73 CDP LED4000-840
		Equipment	: 1 x 32 W / 4000 lm

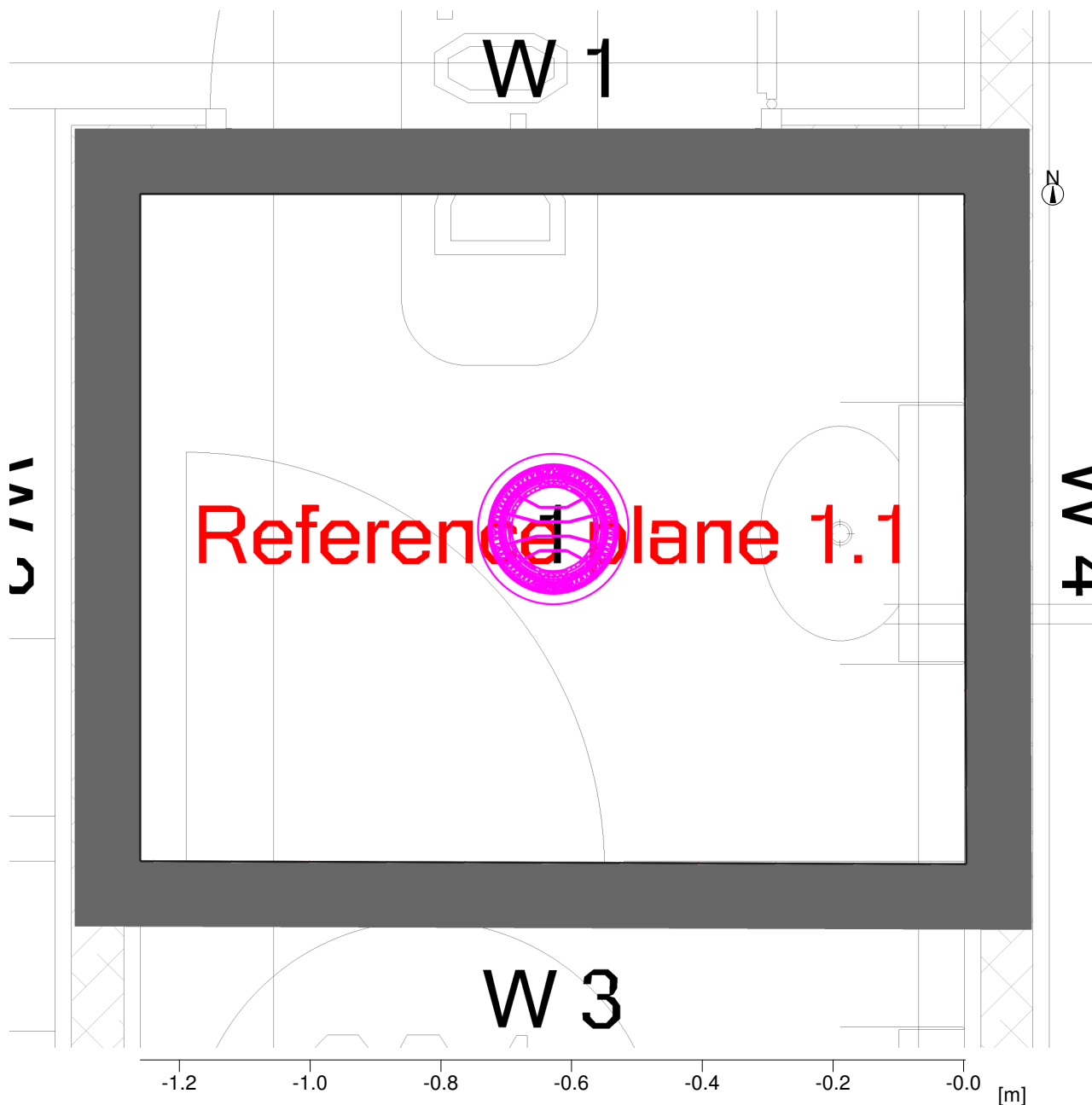
Object : Ventspils Ganību iela
 Installation : Darba apgaismojums
 Project number : 1
 Date : 05.02.2018

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8 204_1

8.1 Description, 204_1

8.1.1 Floor plan

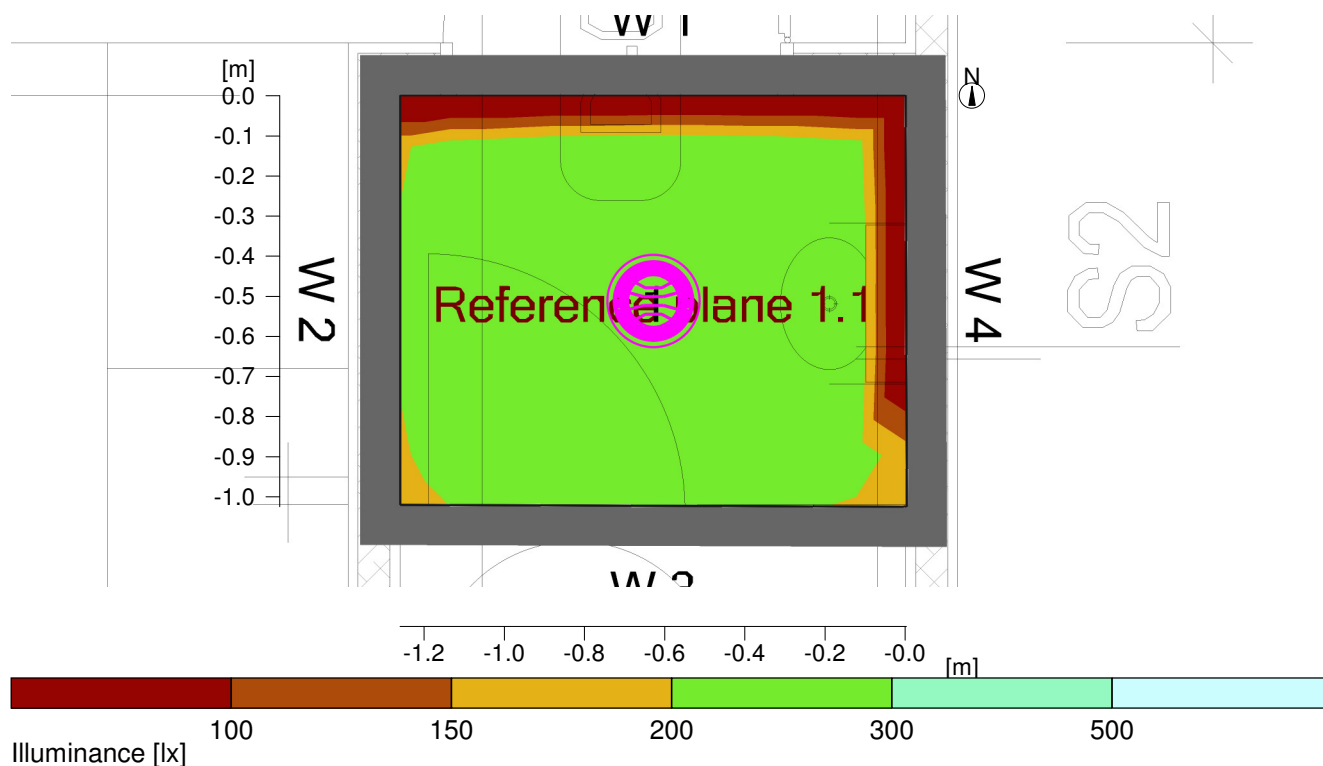


Wall	x	y	Length	Reflectance
1	195.08 m	203.63 m	1.26 m	50.0 %
2	195.08 m	202.61 m	1.02 m	50.0 %
3	196.34 m	202.61 m	1.26 m	50.0 %
4	196.34 m	203.63 m	1.02 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

8 204_1

8.2 Summary, 204_1

8.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.50 m
Maintenance factor	0.80
Total luminous flux of all lamps	2000.00 lm
Total power	24.0 W
Total power per area (1.29 m²)	18.61 W/m² (7.74 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)
 Horizontal
 Em 241 lx (≥ 200 lx)
 Emin 217 lx
 Emin/Eav (Uo) 0.90 (≥ 0.40)
 Emin/Emax (Ud) 0.82
 UGR (2.0H 2.0H) ≤ 20.5 (< 25.00)
 Position 0.00 m

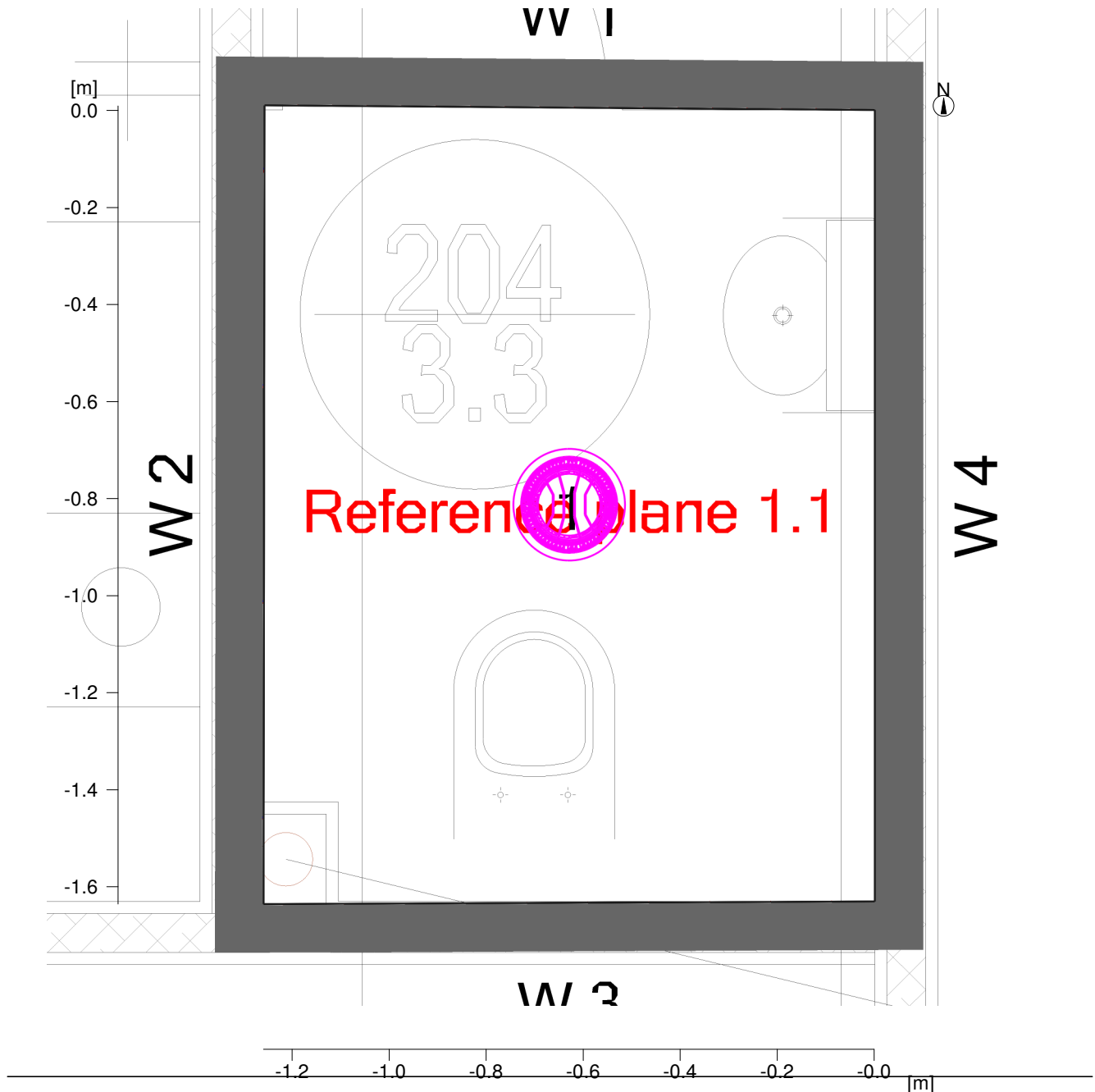
Type No. Make

2	1	TRILUX
		Order No. : 6856651
		Luminaire name : Amatrix G2 C07 HR LED2000-840 01
		Equipment : 1 x 24 W / 2000 lm

9 204

9.1 Description, 204

9.1.1 Floor plan

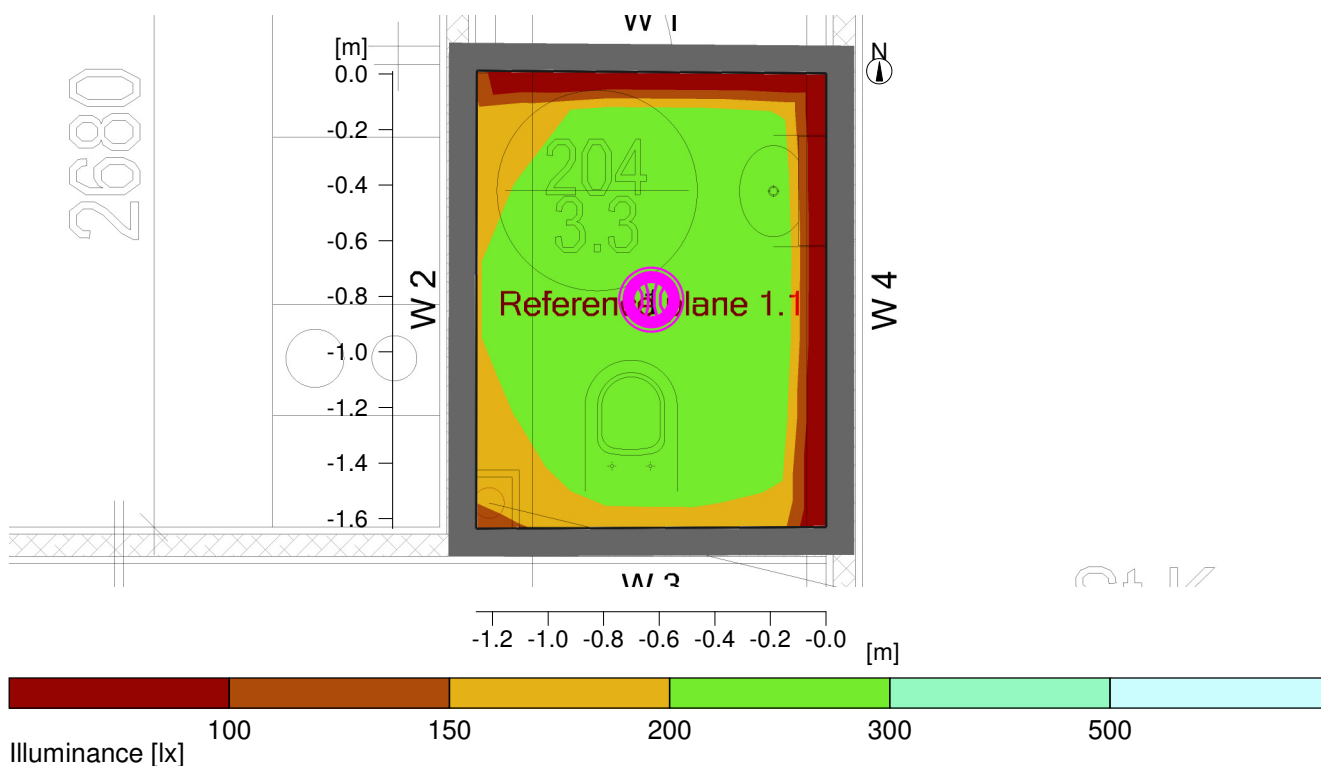


Wall	x	y	Length	Reflectance
1	195.08 m	202.59 m	1.26 m	50.0 %
2	195.08 m	200.95 m	1.64 m	50.0 %
3	196.34 m	200.95 m	1.26 m	50.0 %
4	196.34 m	202.58 m	1.63 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		2.50 m		
Height of reference plane		0.00 m		

9 204

9.2 Summary, 204

9.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	2.50 m
Maintenance factor	0.80
Total luminous flux of all lamps	2000.00 lm
Total power	24.0 W
Total power per area (2.06 m²)	11.65 W/m² (5.41 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Rest, sanitation and first aid rooms
 5.2.4 (EN 12464-1, 8.2011) Cloakrooms, washrooms, bathrooms, toilets (Ra >80.00)
 Horizontal
 Em 215 lx (≥ 200 lx)
 Emin 169 lx
 Emin/Eav (Uo) 0.78 (≥ 0.40)
 Emin/Emax (Ud) 0.67
 UGR (2.0H 2.0H) ≤ 20.5 (< 25.00)
 Position 0.00 m

Type No. Make

2	1	TRILUX
		Order No. : 6856651
		Luminaire name : Amatrix G2 C07 HR LED2000-840 01
		Equipment : 1 x 24 W / 2000 lm

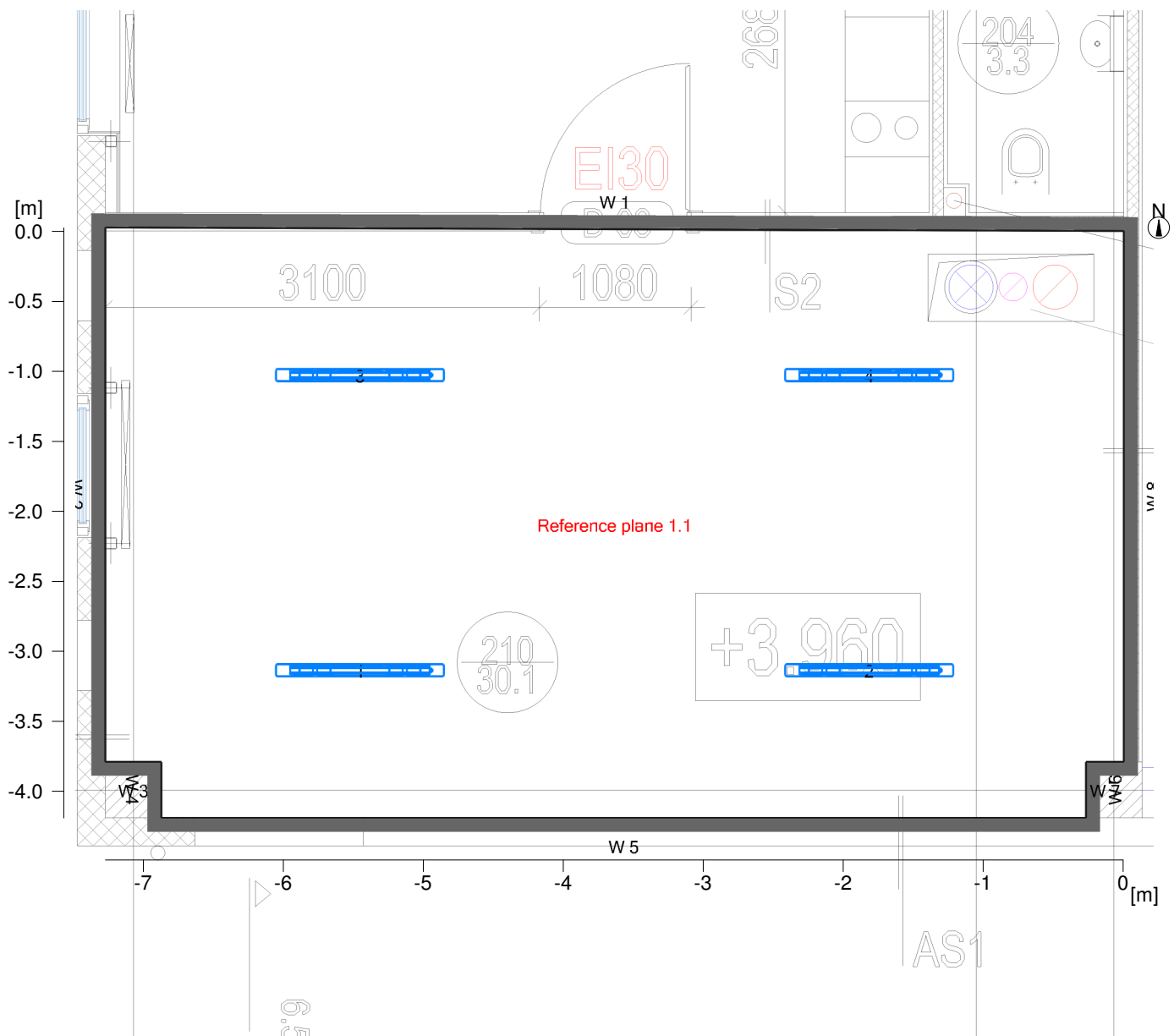
Object : Ventspils Ganību iela
 Installation : Darba apgaismojums
 Project number : 1
 Date : 05.02.2018

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10 210

10.1 Description, 210

10.1.1 Floor plan

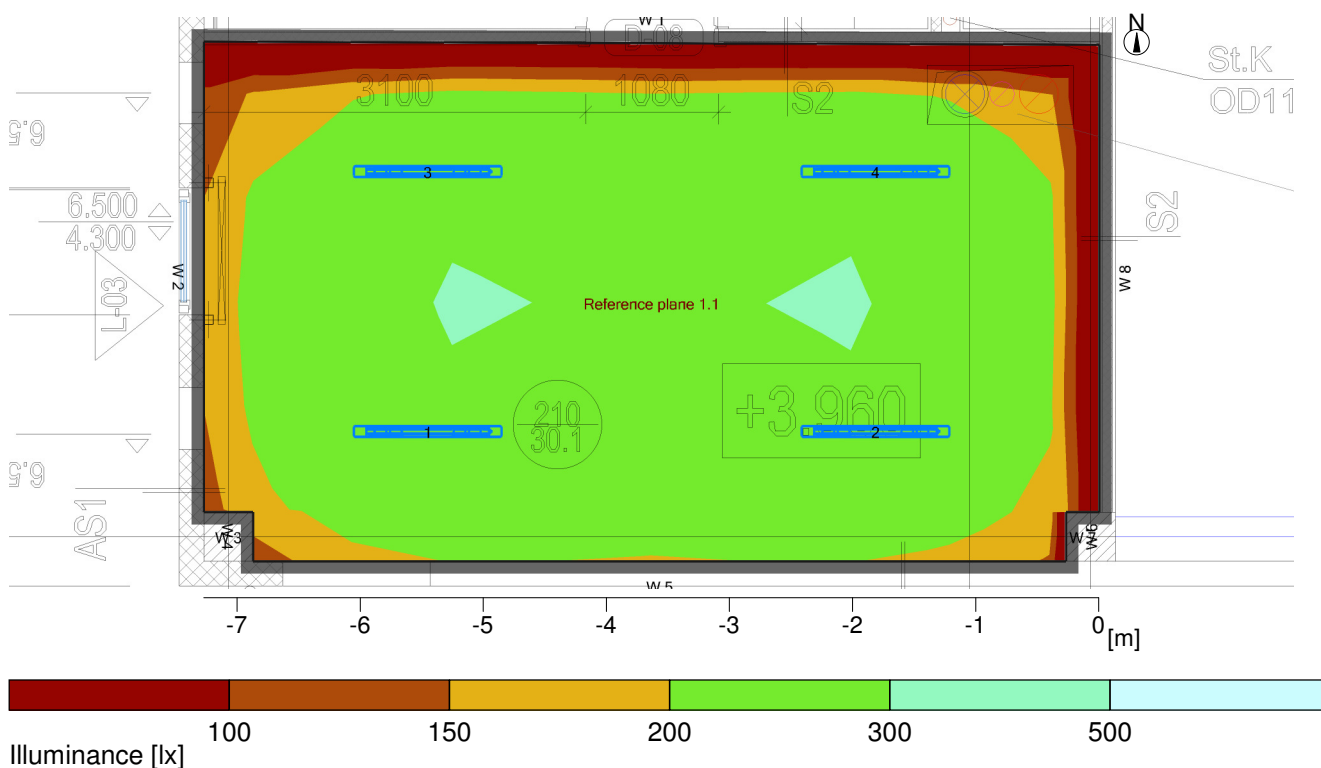


Wall	x	y	Length	Reflectance
1	189.07 m	200.85 m	7.27 m	50.0 %
2	189.07 m	197.03 m	3.82 m	50.0 %
3	189.47 m	197.03 m	0.40 m	50.0 %
4	189.47 m	196.63 m	0.40 m	50.0 %
5	196.07 m	196.63 m	6.60 m	50.0 %
6	196.07 m	197.03 m	0.40 m	50.0 %
7	196.34 m	197.03 m	0.27 m	50.0 %
8	196.34 m	200.82 m	3.79 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.00 m		

10 210

10.2 Summary, 210

10.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Height of luminaire plane
 Maintenance factor

Average indirect fraction
 3.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (30.28 m²)

16000.00 lm
 144.0 W
 4.75 W/m² (2.03 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Control rooms
 5.3.1 (EN 12464-1, 8.2011) Plant rooms, switch gear rooms (Ra >60.00)
 Horizontal

Em 234 lx (>= 200 lx)
 Emin 148 lx
 Emin/Eav (Uo) 0.63 (>= 0.40)
 Emin/Emax (Ud) 0.51
 UGR (2.4H 4.2H) <=21.8 (< 25.00)
 Position 0.00 m

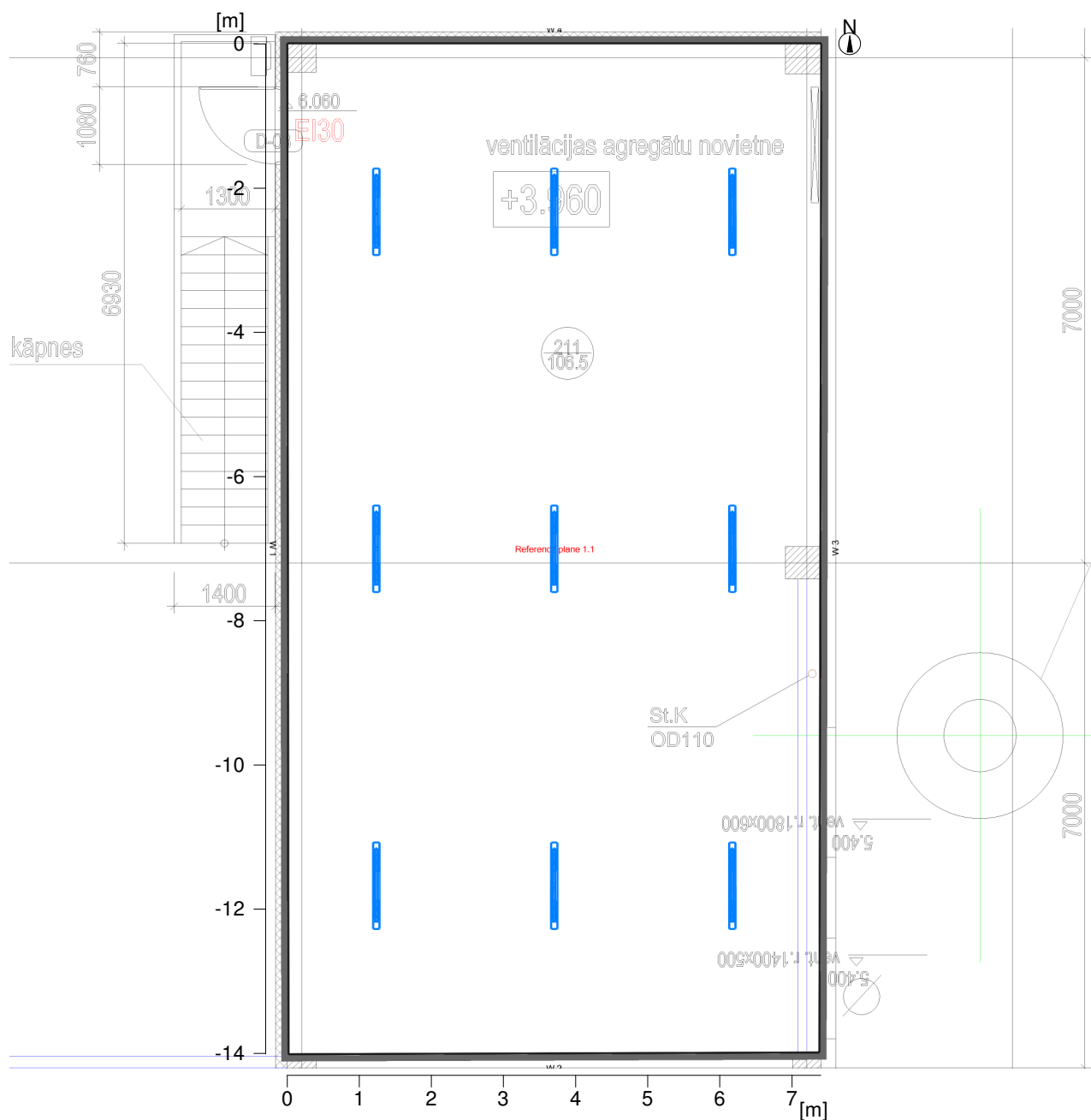
Type No.\Make

TRILUX

10 4 Order No. : 6815451
 Luminaire name : Olexeon 1200 B 4000-840
 Equipment : 1 x 36 W / 4000 lm

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11.1.1 Floor plan

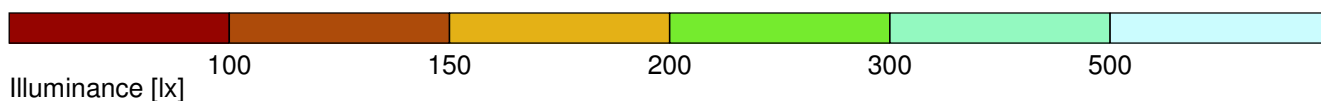
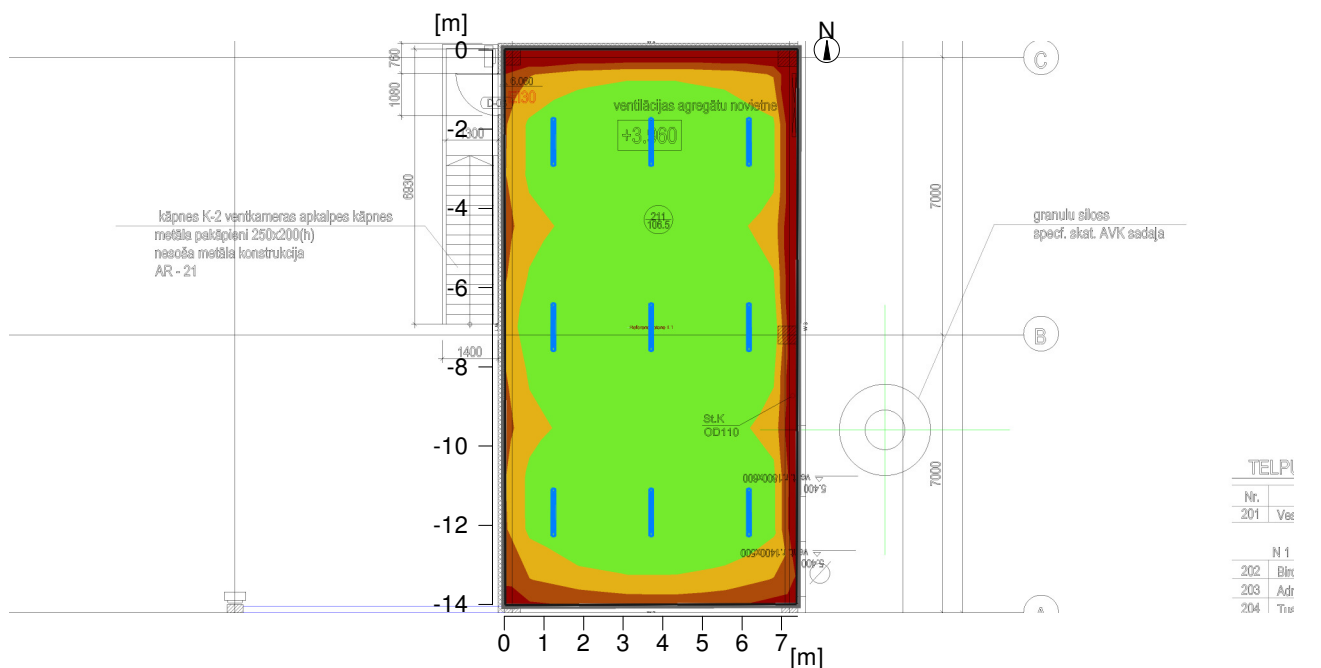


Wall	x	y	Length	Reflectance
1	259.09 m	197.02 m	14.01 m	50.0 %
2	266.45 m	197.05 m	7.36 m	50.0 %
3	266.47 m	211.03 m	13.99 m	50.0 %
4	259.07 m	211.03 m	7.40 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		3.00 m		
Height of reference plane		0.00 m		

11 210_1

11.2 Summary, 210_1

11.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	3.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	36000.00 lm
Total power	324.0 W
Total power per area (103.29 m²)	3.14 W/m² (1.46 W/m²/100lx)

Evaluation area 1

User profile

Reference plane 1.1

General areas inside buildings - Control rooms
 5.3.1 (EN 12464-1, 8.2011) Plant rooms, switch gear rooms (Ra >60.00)
 Horizontal

Em	215 lx	(>= 200 lx)
Emin	139 lx	
Emin/Eav (Uo)	0.64	(>= 0.40)
Emin/Emax (Ud)	0.49	
UGR (4.3H 8.1H)	<=23.4	(< 25.00)
Position	0.00 m	

Type No.\Make

10	9	TRILUX	
		Order No.	: 6815451
		Luminaire name	: Olexeon 1200 B 4000-840
		Equipment	: 1 x 36 W / 4000 lm