

External Lighting

Installation : Camden Assisted Living

Project number :

Customer :

Processed by :

Date : 28.08.2018

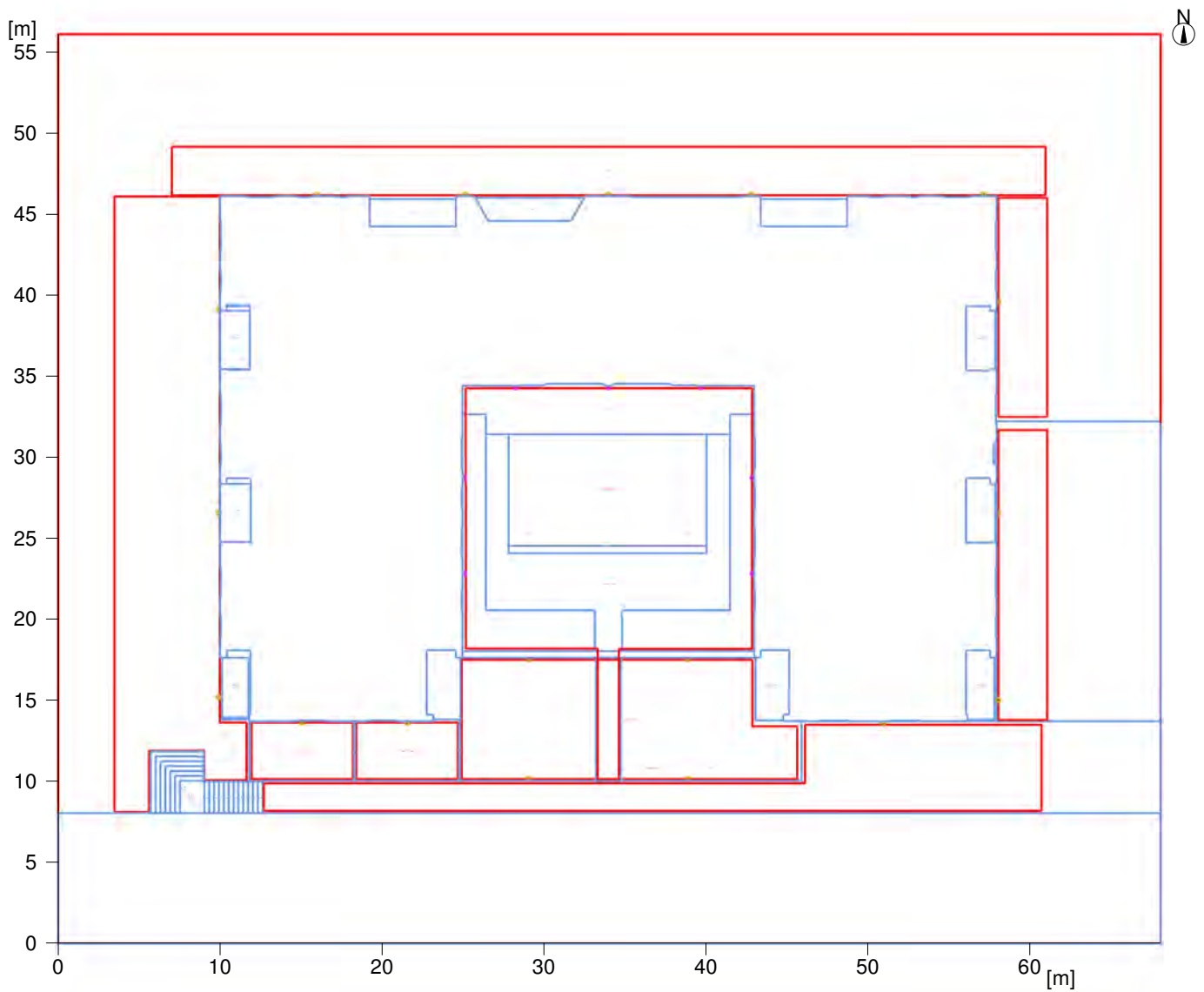
The following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergences can occur.

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.

2.1 Description, External

2.1.2 Floor plan



Object : External Lighting
Installation : Camden Assisted Living
Project number :
Date : 28.08.2018

External

Calculation results, External

3D luminance, View 1



Luminance in the scene

Minimum: : 0 cd/m²
Maximum: : 368 cd/m²

Object : External Lighting
Installation : Camden Assisted Living
Project number :
Date : 28.08.2018

External

Calculation results, External

3D luminance, View 1



Luminance in the scene

Minimum: : 0 cd/m²
Maximum: : 368 cd/m²

Object : External Lighting
Installation : Camden Assisted Living
Project number :
Date : 28.08.2018

External

Calculation results, External

3D luminance, View 1



Luminance in the scene

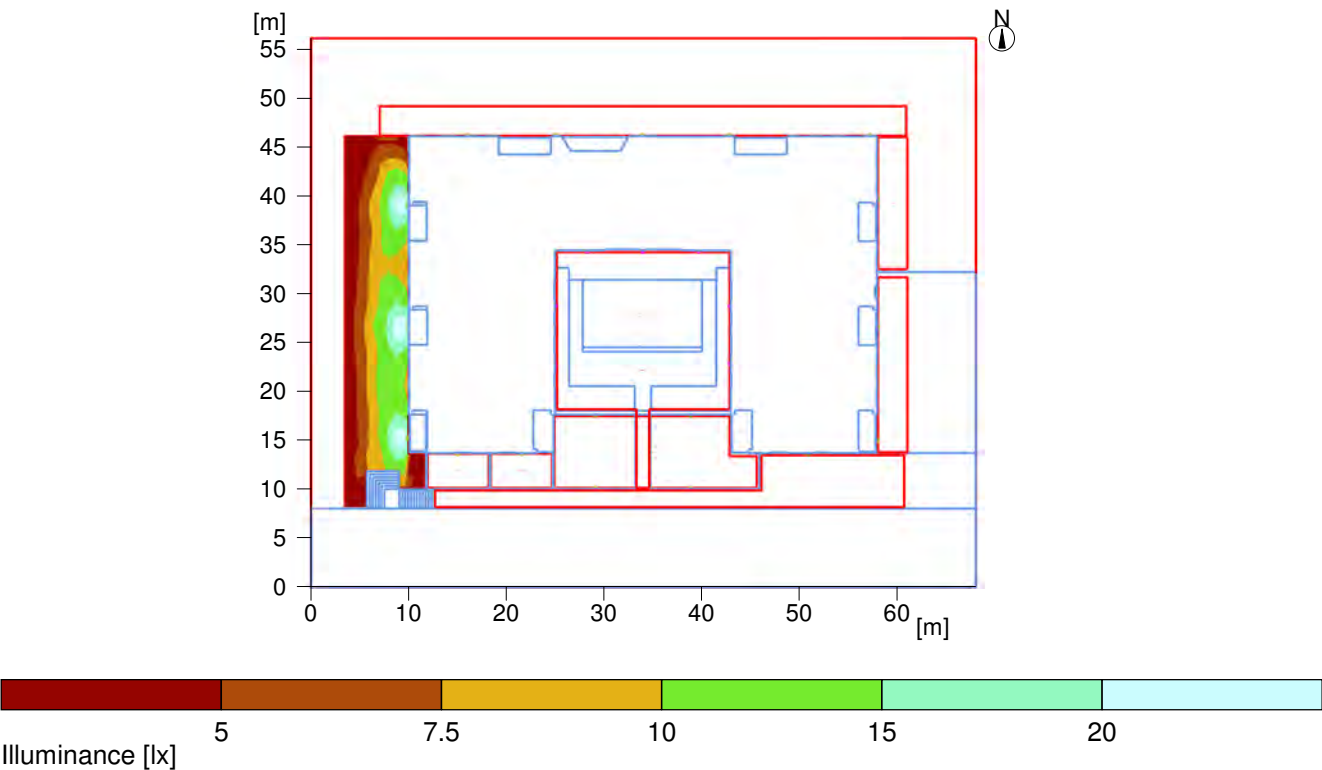
Minimum: : 0 cd/m²

Maximum: : 368 cd/m²

2 External

2.2 Summary, External

2.2.1 Result overview, West



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux of all lamps	30839 lm
Total power	344.9 W
Total power per area (3817.63 m²)	0.09 W/m²

Illuminance

Average illuminance	Eav	8.3 lx
Minimum illuminance	Emin	0.1 lx
Maximum illuminance	Emax	23.2 lx
Uniformity Uo	Emin/Em	1:102 (0.01)
Diversity Ud	Emin/Emax	1:285 (0)

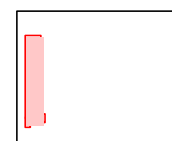
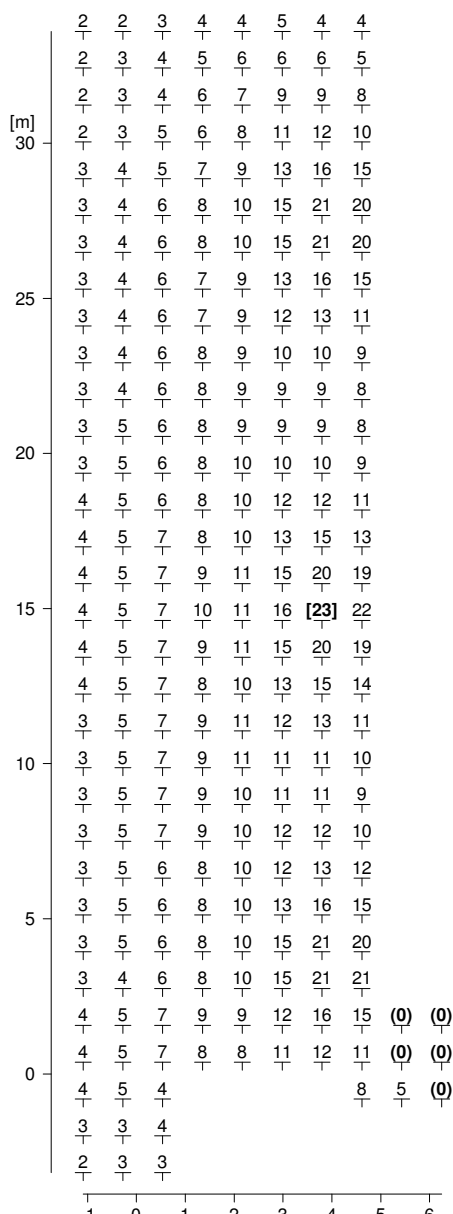
Type No.Make

LDL	
1 18	Order No. : LUNA/L6/1200/74
	Luminaire name : LUNA L6optic 1205lm 14w 740 250mA
	Equipment : 1 x LED Backlight 13.8 W / 1205 lm
LDL	
2 7	Order No. : LUNA/L4/1300/74
	Luminaire name : LUNA L4optic 1307lm 14w 740 250mA
	Equipment : 1 x LED Backlight 13.78 W / 1307 lm

Object : External Lighting
Installation : Camden Assisted Living
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2.3 Calculation results, External

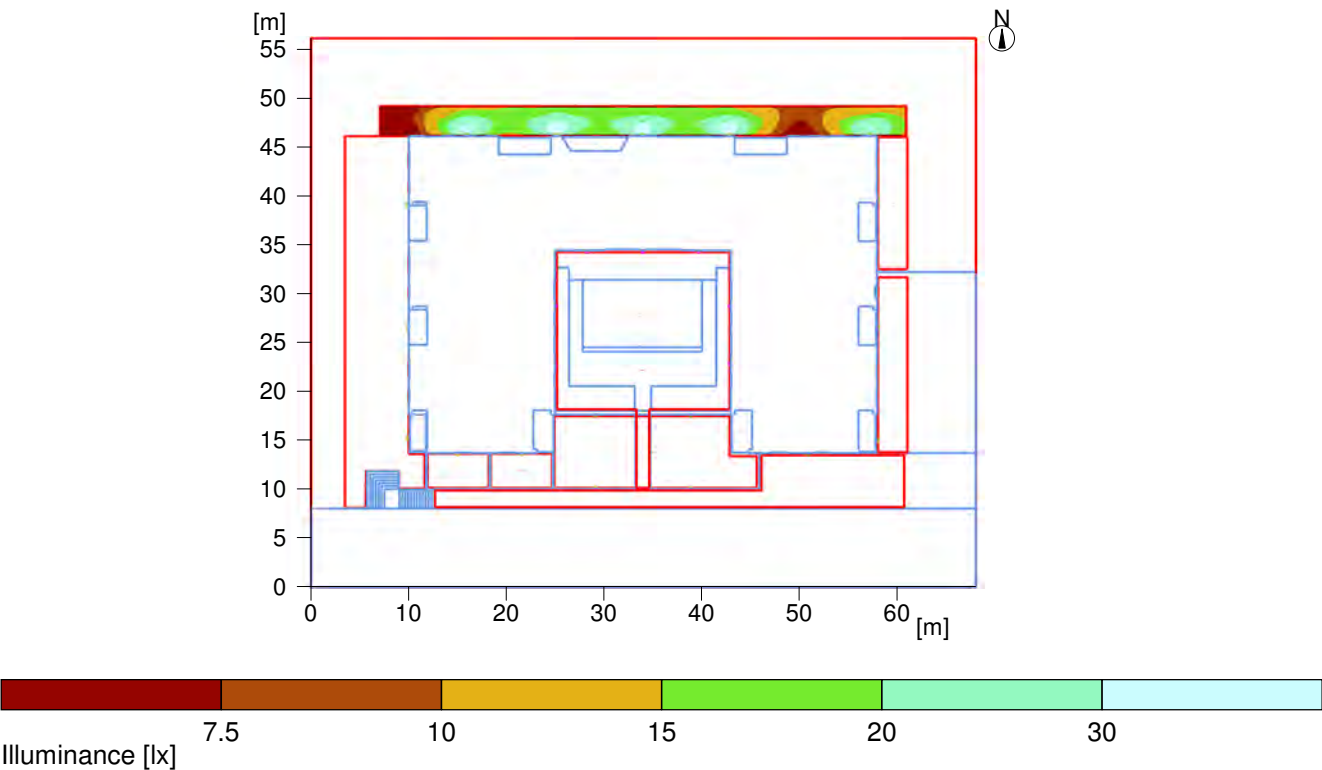
2.3.2 Table, West (E)



Height reference plane	: 0.00 m
Average illuminance	Eav : 8 lx
Minimum illuminance	Emin : 0.1 lx
Maximum illuminance	Emax : 23 lx
Uniformity Uo	Emin/Eav : 1 : 102.24 (0.01)
Diversity Ud	Emin/Emax : 1 : 284.94 (0.00)

2.2 Summary, External

2.2.2 Result overview, North



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux of all lamps	30839 lm
Total power	344.9 W
Total power per area (3817.63 m²)	0.09 W/m²

Illuminance

Average illuminance	Eav	16.4 lx
Minimum illuminance	Emin	4.8 lx
Maximum illuminance	Emax	36.1 lx
Uniformity Uo	Emin/Em	1:3.39 (0.29)
Diversity Ud	Emin/Emax	1:7.48 (0.13)

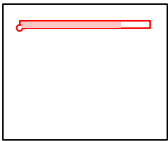
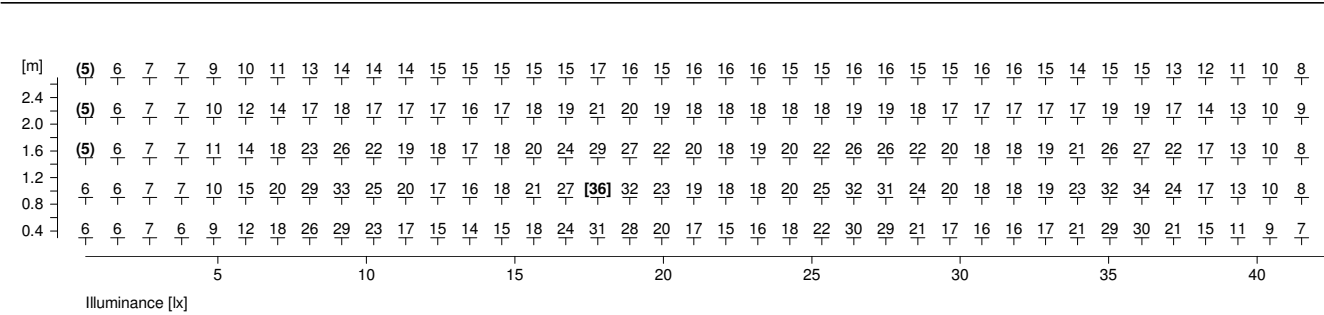
Type No.Make

LDL		
1	18	Order No. : LUNA/L6/1200/74
		Luminaire name : LUNA L6optic 1205lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.8 W / 1205 lm
LDL		
2	7	Order No. : LUNA/L4/1300/74
		Luminaire name : LUNA L4optic 1307lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.78 W / 1307 lm

Object : External Lighting
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2.3 Calculation results, External

2.3.3 Table, North (E)



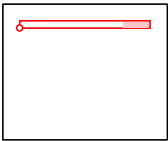
Part1

Height reference plane		: 0.00 m
Average illuminance	Eav	: 16 lx
Minimum illuminance	Emin	: 5 lx
Maximum illuminance	Emax	: 36 lx
Uniformity Uo	Emin/Eav	: 1 : 3.39 (0.29)
Diversity Ud	Emin/Emax	: 1 : 7.48 (0.13)

2.3 Calculation results, External

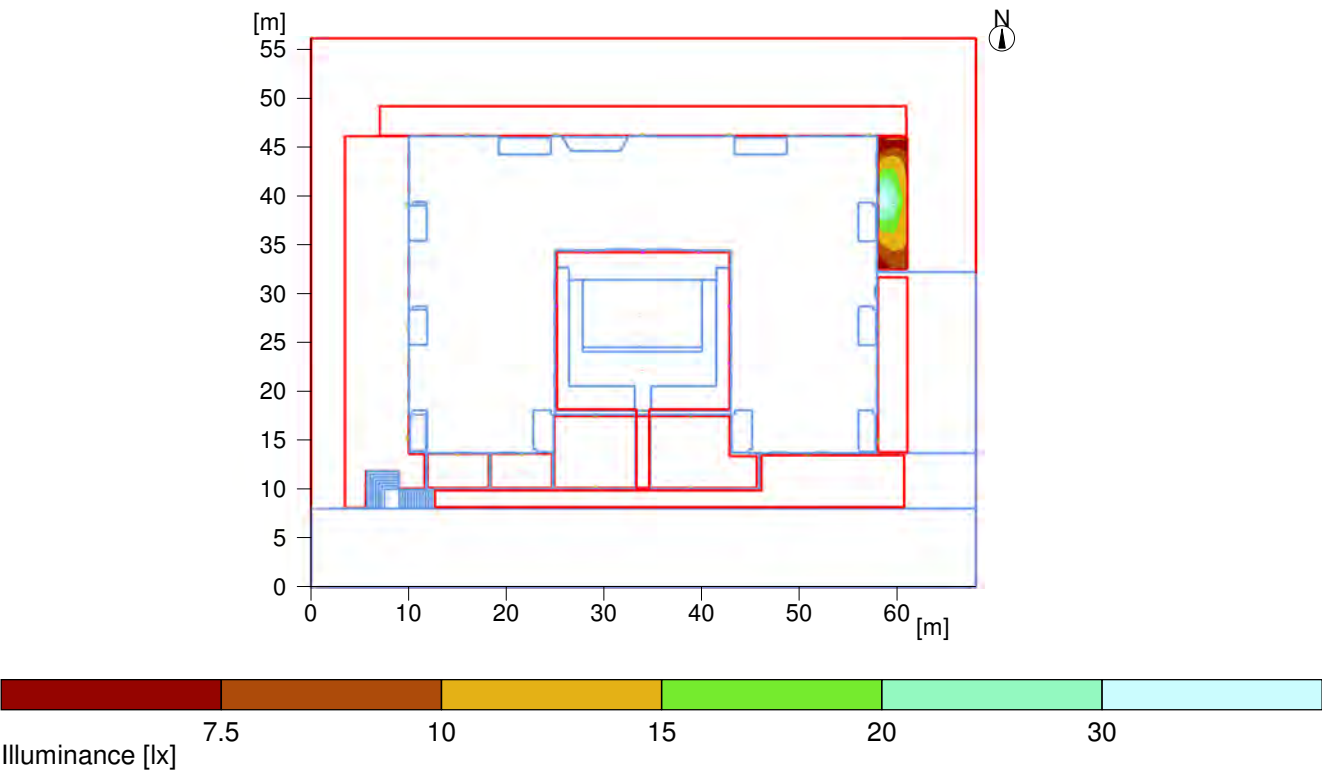
2.3.3 Table, North (E)

8	8	8	9	10	10	11	12	12	11	11
8	8	9	10	12	13	14	15	16	15	14
7	7	8	11	14	16	20	23	22	18	15
6	7	8	10	14	18	25	30	27	20	16
6	6	7	9	12	16	23	27	25	18	15
45					50 [m]					



2.2 Summary, External

2.2.7 Result overview, East



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux of all lamps	30839 lm
Total power	344.9 W
Total power per area (3817.63 m²)	0.09 W/m²

Illuminance

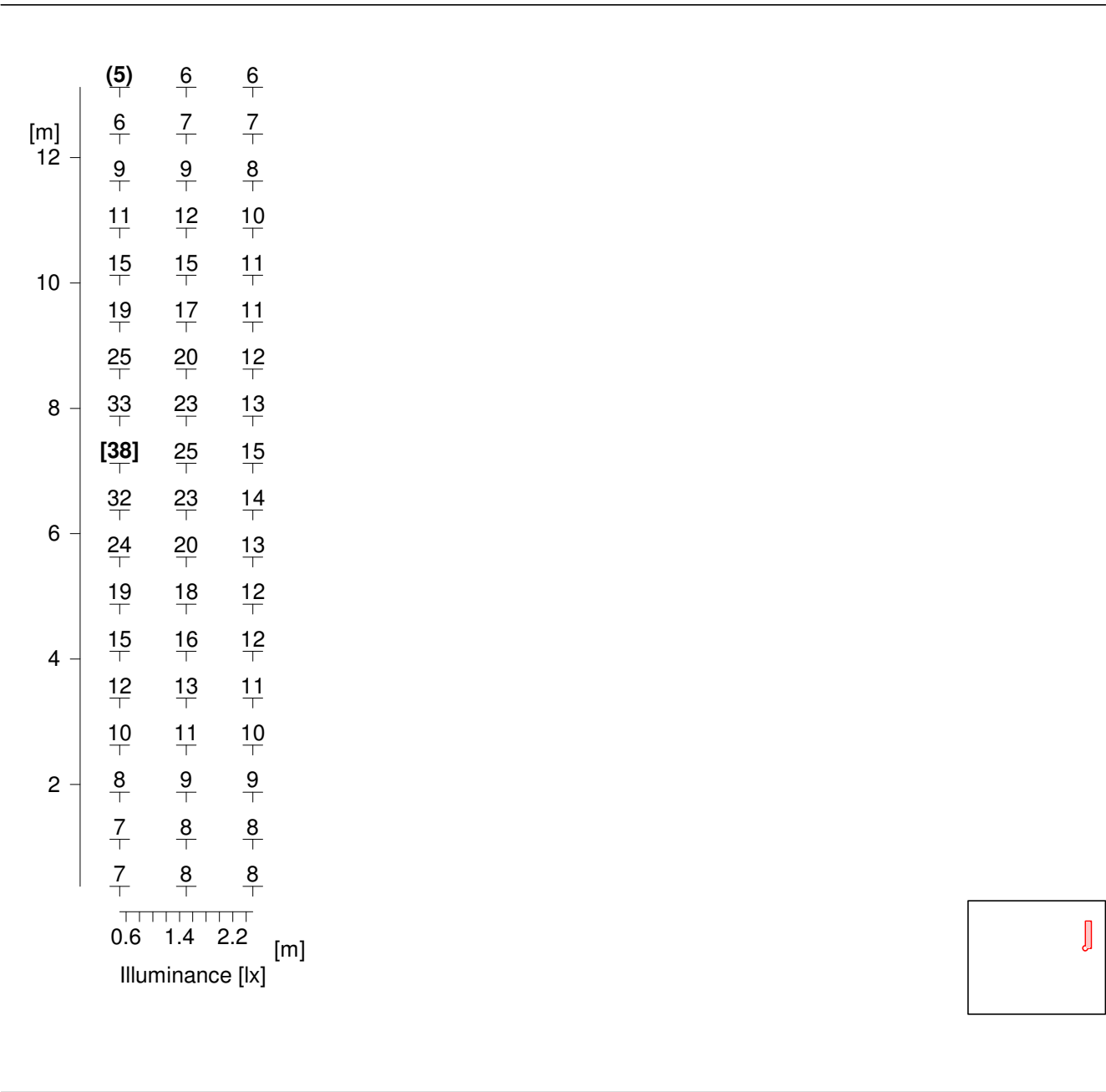
Average illuminance	Eav	13.8 lx
Minimum illuminance	Emin	4.9 lx
Maximum illuminance	Emax	37.5 lx
Uniformity Uo	Emin/Em	1:2.85 (0.35)
Diversity Ud	Emin/Emax	1:7.74 (0.13)

Type No.Make

LDL		
1	18	Order No. : LUNA/L6/1200/74
		Luminaire name : LUNA L6optic 1205lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.8 W / 1205 lm
LDL		
2	7	Order No. : LUNA/L4/1300/74
		Luminaire name : LUNA L4optic 1307lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.78 W / 1307 lm

2.3 Calculation results, External

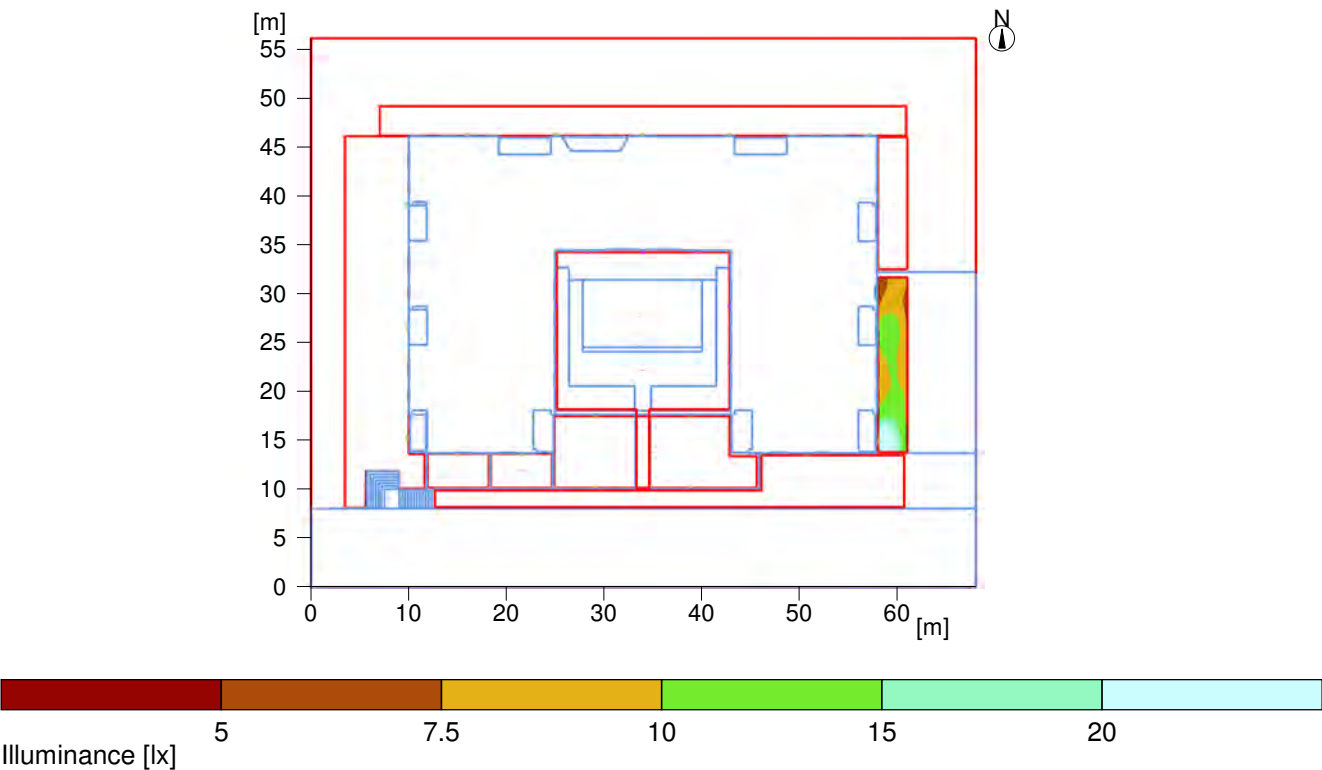
2.3.8 Table, East (E)



Height reference plane		: 0.00 m
Average illuminance	Eav	: 14 lx
Minimum illuminance	Emin	: 5 lx
Maximum illuminance	Emax	: 38 lx
Uniformity Uo	Emin/Eav	: 1 : 2.85 (0.35)
Diversity Ud	Emin/Emax	: 1 : 7.74 (0.13)

2.2 Summary, External

2.2.9 Result overview, East Ramp



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.85
Total luminous flux of all lamps	30839 lm
Total power	344.9 W
Total power per area (3817.63 m²)	0.09 W/m²

Illuminance

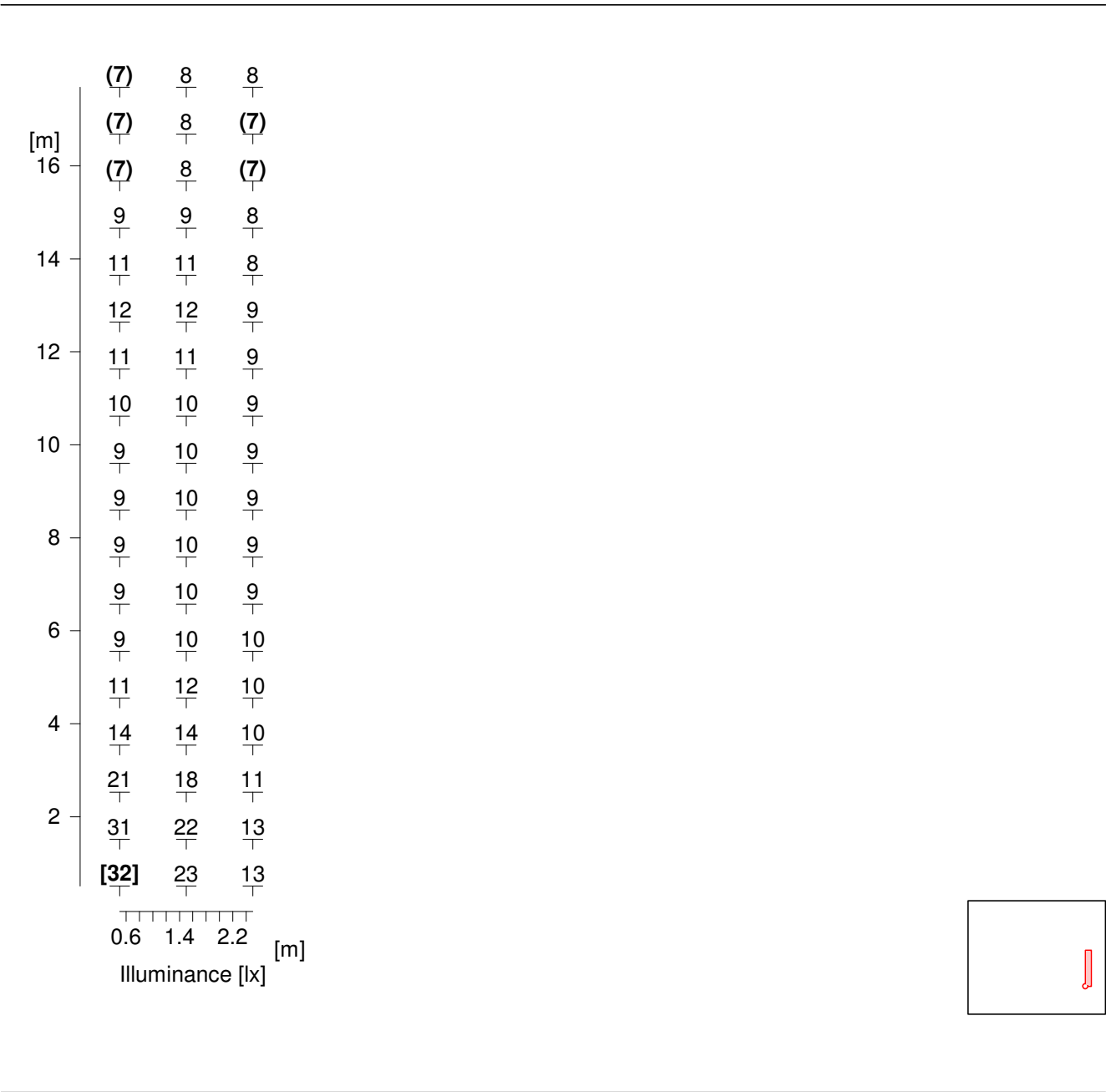
Average illuminance	Eav	11.3 lx
Minimum illuminance	Emin	6.7 lx
Maximum illuminance	Emax	32.2 lx
Uniformity Uo	Emin/Em	1:1.7 (0.59)
Diversity Ud	Emin/Emax	1:4.83 (0.21)

Type No.Make

1		18		LDL	
				Order No.	: LUNA/L6/1200/74
				Luminaire name	: LUNA L6optic 1205lm 14w 740 250mA
				Equipment	: 1 x LED Backlight 13.8 W / 1205 lm
2		7		LDL	
				Order No.	: LUNA/L4/1300/74
				Luminaire name	: LUNA L4optic 1307lm 14w 740 250mA
				Equipment	: 1 x LED Backlight 13.78 W / 1307 lm

2.3 Calculation results, External

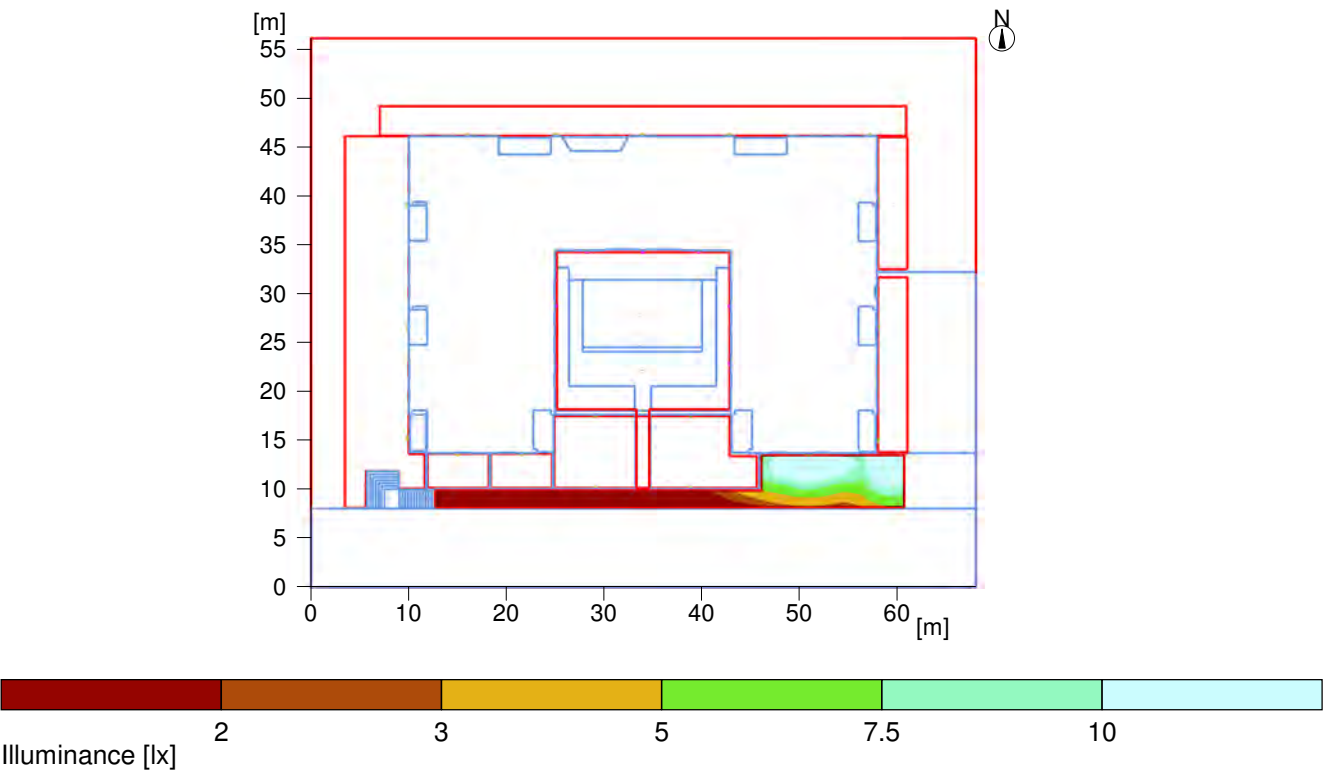
2.3.10 Table, East Ramp (E)



Average illuminance	Eav	: 11 lx
Minimum illuminance	Emin	: 7 lx
Maximum illuminance	Emax	: 32 lx
Uniformity Uo	Emin/Eav	: 1 : 1.70 (0.59)
Diversity Ud	Emin/Emax	: 1 : 4.83 (0.21)

2.2 Summary, External

2.2.8 Result overview, Community



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.81 m
Maintenance factor	0.85
Total luminous flux of all lamps	30839 lm
Total power	344.9 W
Total power per area (3817.63 m²)	0.09 W/m²

Illuminance

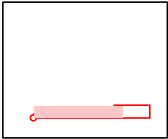
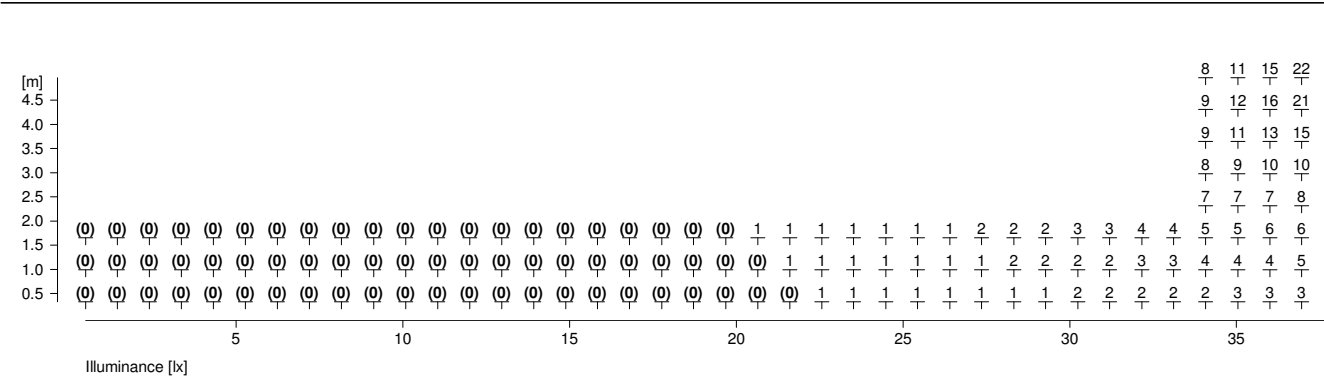
Average illuminance	Eav	5.6 lx
Minimum illuminance	Emin	0 lx
Maximum illuminance	Emax	28.6 lx
Uniformity Uo	Emin/Em	1:367 (0)
Diversity Ud	Emin/Emax	1:1890 (0)

Type No.Make

LDL		
1	18	Order No. : LUNA/L6/1200/74
		Luminaire name : LUNA L6optic 1205lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.8 W / 1205 lm
LDL		
2	7	Order No. : LUNA/L4/1300/74
		Luminaire name : LUNA L4optic 1307lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.78 W / 1307 lm

2.3 Calculation results, External

2.3.9 Table, Community (E)



Part1

Height reference plane		: 3.81 m
Average illuminance	Eav	: 6 lx
Minimum illuminance	Emin	: 0.0 lx
Maximum illuminance	Emax	: 29 lx
Uniformity Uo	Emin/Eav	: 1 : 367.47 (0.00)
Diversity Ud	Emin/Emax	: 1 : 1893.99 (0.00)

2.3 Calculation results, External

2.3.9 Table, Community (E)

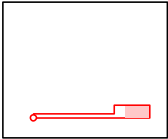
[29]

27	19	14	10	10	9	11	25	24	15
26	25	19	15	11	10	8	11	20	21
17	17	14	13	11	9	8	11	17	17
11	11	10	10	9	8	7	10	13	14
9	9	8	7	7	7	6	9	11	11
7	7	6	5	5	5	5	7	8	9
5	5	4	4	4	4	4	6	6	7
3	3	3	3	3	3	3	4	5	6

40

45

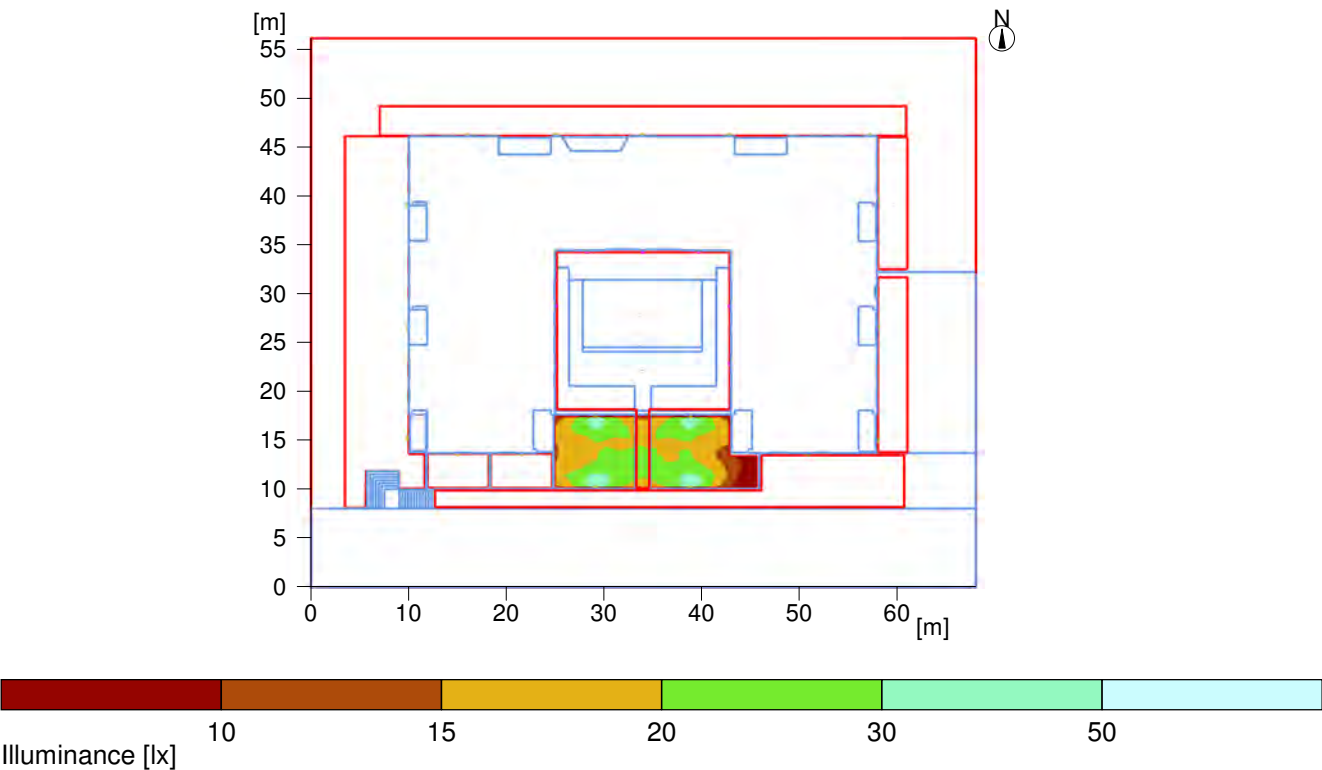
[m]



Part2

2.2 Summary, External

2.2.5 Result overview, Sunken Garden



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux of all lamps	30839 lm
Total power	344.9 W
Total power per area (3817.63 m²)	0.09 W/m²

Illuminance

Average illuminance	Eav	19.3 lx
Minimum illuminance	Emin	5.1 lx
Maximum illuminance	Emax	35 lx
Uniformity Uo	Emin/Em	1:3.79 (0.26)
Diversity Ud	Emin/Emax	1:6.86 (0.15)

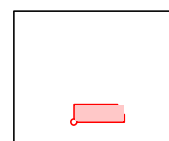
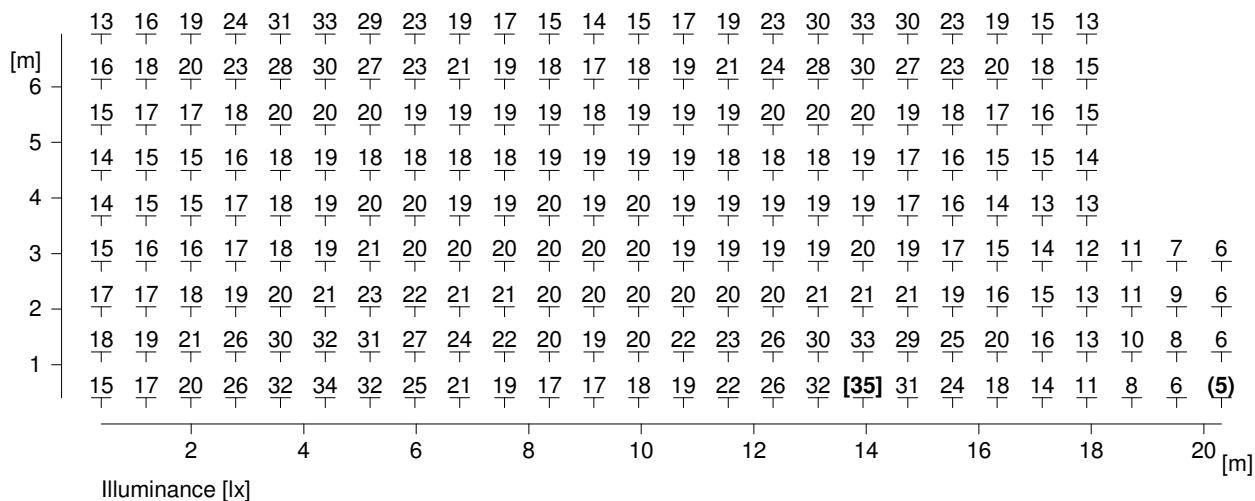
Type No.Make

LDL		
1	18	Order No. : LUNA/L6/1200/74
		Luminaire name : LUNA L6optic 1205lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.8 W / 1205 lm
LDL		
2	7	Order No. : LUNA/L4/1300/74
		Luminaire name : LUNA L4optic 1307lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.78 W / 1307 lm

Object : External Lighting
Installation : Camden Assisted Living
Project number :
Date : 28.08.2018

2.3 Calculation results, External

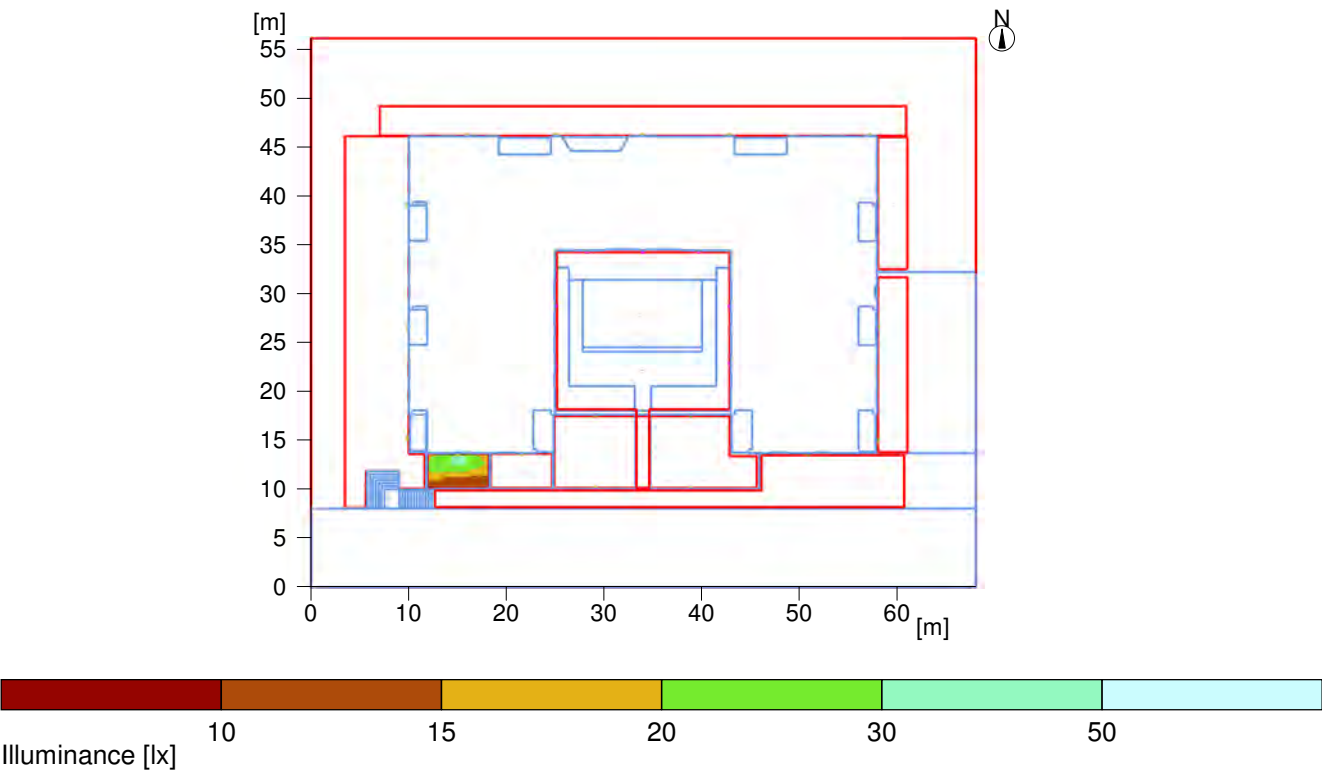
2.3.6 Table, Sunken Garden (E)



Height reference plane		: 0.00 m
Average illuminance	Eav	: 19 lx
Minimum illuminance	Emin	: 5 lx
Maximum illuminance	Emax	: 35 lx
Uniformity Uo	Emin/Eav	: 1 : 3.79 (0.26)
Diversity Ud	Emin/Emax	: 1 : 6.86 (0.15)

2.2 Summary, External

2.2.3 Result overview, Private Terrace 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux of all lamps	30839 lm
Total power	344.9 W
Total power per area (3817.63 m²)	0.09 W/m²

Illuminance

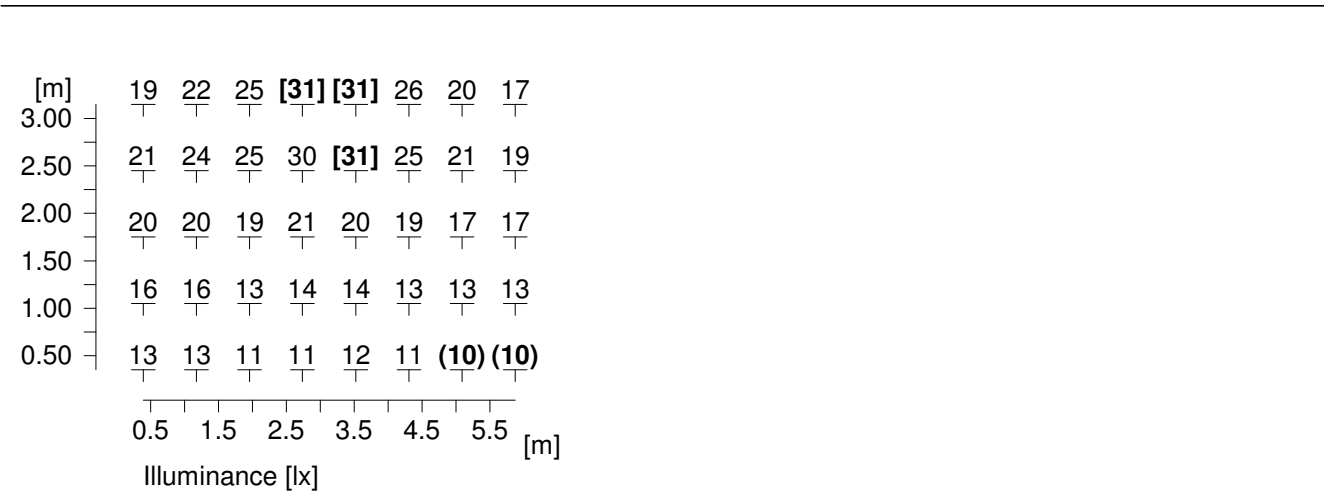
Average illuminance	Eav	18.6 lx
Minimum illuminance	Emin	10.1 lx
Maximum illuminance	Emax	31.2 lx
Uniformity Uo	Emin/Em	1:1.85 (0.54)
Diversity Ud	Emin/Emax	1:3.1 (0.32)

Type No.Make

LDL		
1	18	Order No. : LUNA/L6/1200/74
		Luminaire name : LUNA L6optic 1205lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.8 W / 1205 lm
LDL		
2	7	Order No. : LUNA/L4/1300/74
		Luminaire name : LUNA L4optic 1307lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.78 W / 1307 lm

2.3 Calculation results, External

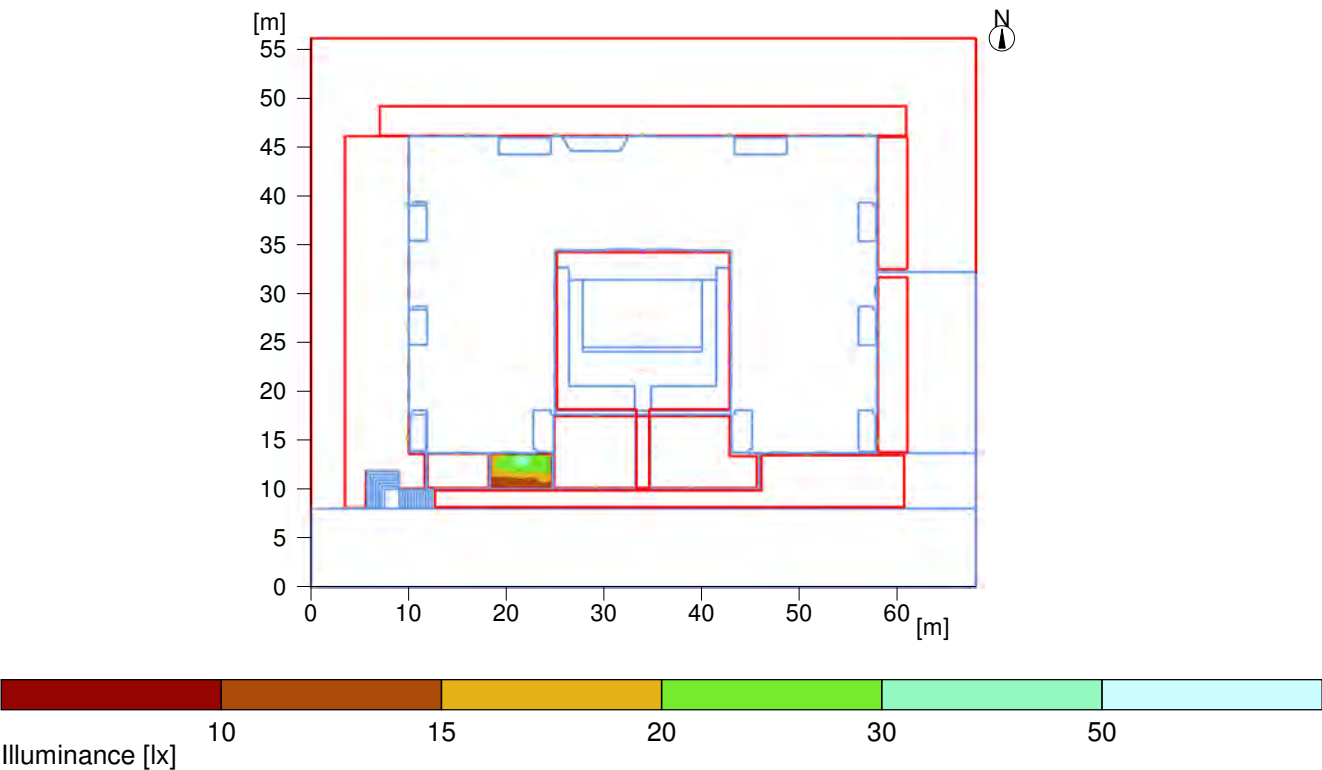
2.3.4 Table, Private Terrace 1 (E)



Height reference plane		: 0.00 m
Average illuminance	Eav	: 19 lx
Minimum illuminance	Emin	: 10 lx
Maximum illuminance	Emax	: 31 lx
Uniformity Uo	Emin/Eav	: 1 : 1.85 (0.54)
Diversity Ud	Emin/Emax	: 1 : 3.10 (0.32)

2.2 Summary, External

2.2.4 Result overview, Private Terrace 2



General	
Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.85
Total luminous flux of all lamps	
30839 lm	
Total power	
344.9 W	
Total power per area (3817.63 m²)	
0.09 W/m²	

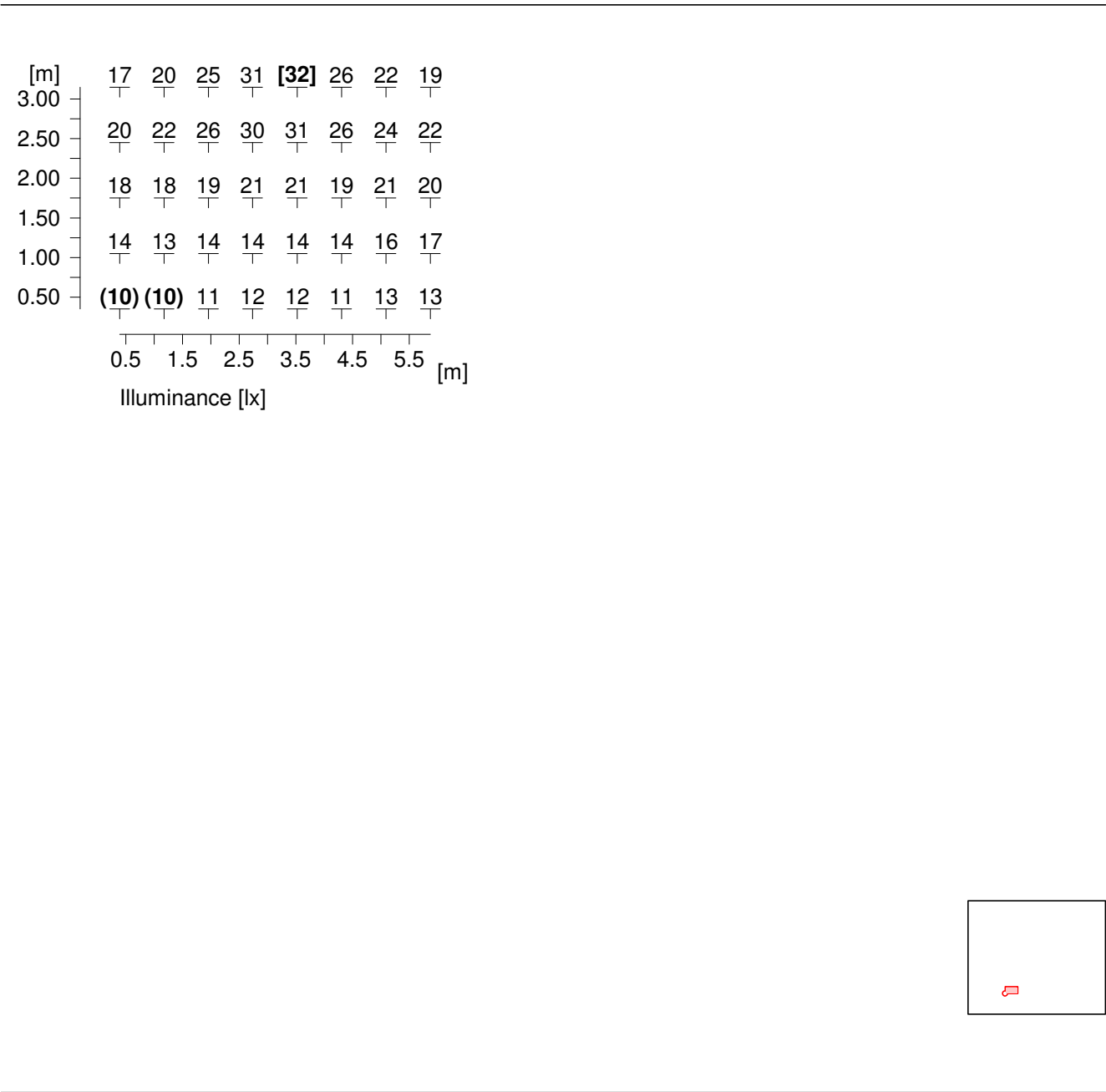
Illuminance		
Average illuminance	Eav	19 lx
Minimum illuminance	Emin	10.1 lx
Maximum illuminance	Emax	31.6 lx
Uniformity Uo	Emin/Em	1:1.88 (0.53)
Diversity Ud	Emin/Emax	1:3.12 (0.32)

Type No.Make

LDL		
1	18	Order No. : LUNA/L6/1200/74
		Luminaire name : LUNA L6optic 1205lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.8 W / 1205 lm
LDL		
2	7	Order No. : LUNA/L4/1300/74
		Luminaire name : LUNA L4optic 1307lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.78 W / 1307 lm

2.3 Calculation results, External

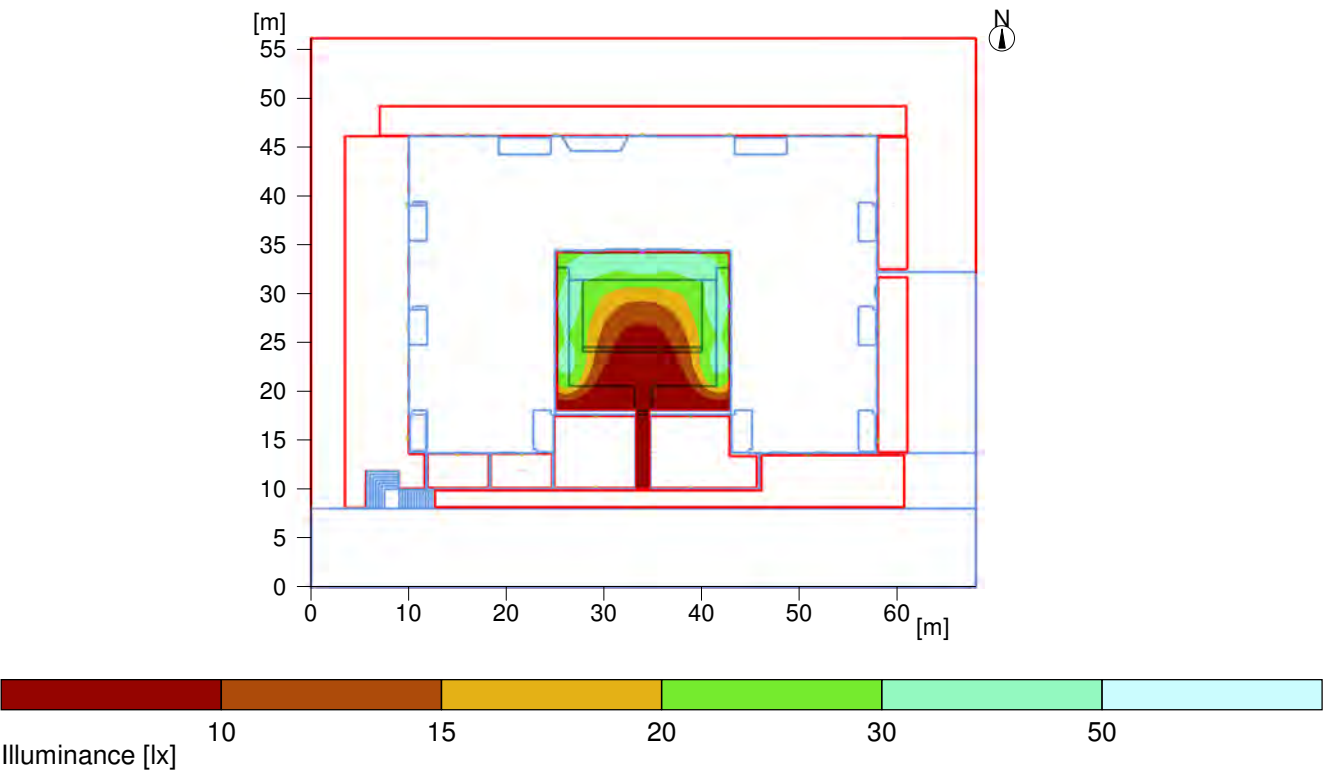
2.3.5 Table, Private Terrace 2 (E)



Height reference plane		: 0.00 m
Average illuminance	Eav	: 19 lx
Minimum illuminance	Emin	: 10 lx
Maximum illuminance	Emax	: 32 lx
Uniformity Uo	Emin/Eav	: 1 : 1.88 (0.53)
Diversity Ud	Emin/Emax	: 1 : 3.12 (0.32)

2.2 Summary, External

2.2.6 Result overview, Private Garden



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.82 m
Maintenance factor	0.85
Total luminous flux of all lamps	30839 lm
Total power	344.9 W
Total power per area (3817.63 m²)	0.09 W/m²

Illuminance

Average illuminance	Eav	18 lx
Minimum illuminance	Emin	0.6 lx
Maximum illuminance	Emax	36.9 lx
Uniformity Uo	Emin/Em	1:28.7 (0.03)
Diversity Ud	Emin/Emax	1:58.6 (0.02)

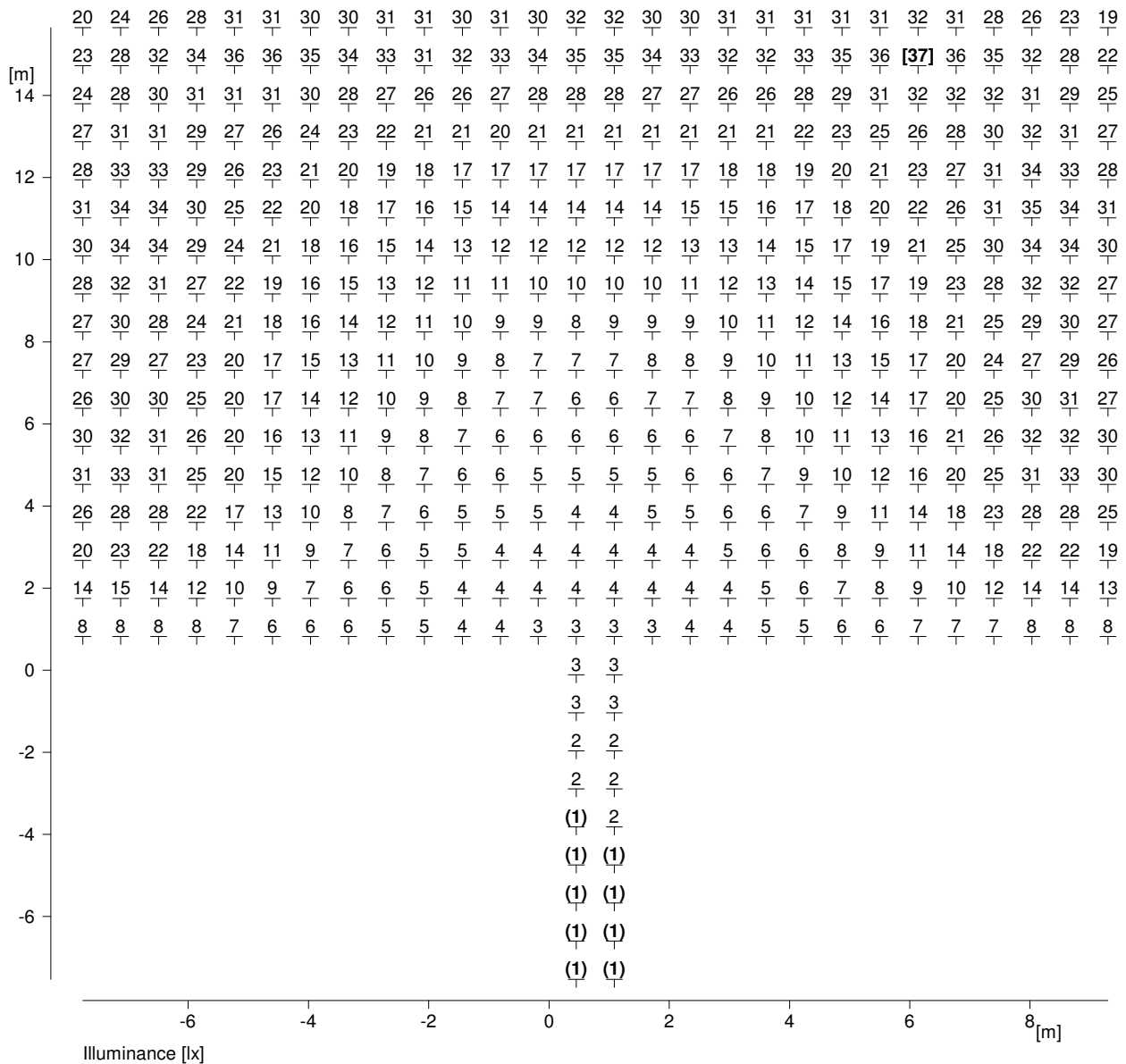
Type No.Make

LDL		
1	18	Order No. : LUNA/L6/1200/74
		Luminaire name : LUNA L6optic 1205lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.8 W / 1205 lm
LDL		
2	7	Order No. : LUNA/L4/1300/74
		Luminaire name : LUNA L4optic 1307lm 14w 740 250mA
		Equipment : 1 x LED Backlight 13.78 W / 1307 lm

Object : External Lighting
Installation : Camden Assisted Living
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2.3 Calculation results, External

2.3.7 Table, Private Garden (E)



Height reference plane	: 3.82 m
Average illuminance	Eav : 18 lx
Minimum illuminance	Emin : 0.6 lx
Maximum illuminance	Emax : 37 lx
Uniformity Uo	Emin/Eav : 1 : 28.69 (0.03)
Diversity Ud	Emin/Emax : 1 : 58.62 (0.02)

