Lighting Calculations

Installation : Fairfield Cottages, Cowfold for Saxon Weald R2

Project number : 22358
Customer : CEF Worthing
Processed by : C Andrews
Date : 12.02.2025

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.

David Baxter - Lighting Design Engineer - Tamlite Lighting
dbaxter@tamlite.co.uk

Table of contents

First Page 1
Table of contents 2
1 Luminaire data
1.1 Tamlite Lighting, CITY RL T4 (CTRT4280WWB)
1.1.1 Data sheet 3
1.2 Tamlite Lighting, CITY WL (CWL90T2WWB)
1.2.1 Data sheet 4
1.3 Tamlite Lighting, CITY WL T4 (!CWL90T4WWB)
1.3.1 Data sheet 5
1.4 Tamlite Lighting, CITY PATH (CPH70T4WWB)
1.4.1 Data sheet 6
2 Exterior
2.1 Description, Exterior
2.1.1 Luminaire data/Room elements 7
2.2 Summary, Exterior
2.2.1 Result overview, Measuring area 1 10
2.2.2 Result overview, Measuring area 3 12
2.2.3 Result overview, Measuring area 4 14
2.2.4 Result overview, Measuring area 5 16
2.2.5 Result overview, Measuring area 6 18
2.2.6 Result overview, M 7 20
2.2.7 Result overview, M 8 22
2.2.8 Result overview, Evaluation area 1 24
2.3 Calculation results, Exterior
2.3.1 Table, Measuring area 1 (E) 26
2.3.2 Table, Measuring area 3 (E) 35
2.3.3 Table, Measuring area 4 (E) 36
2.3.4 Table, Measuring area 5 (E) 37
2.3.5 Table, Measuring area 6 (E) 38
2.3.6 Table, M 7 (E) 39
2.3.7 Table, M 8 (E) 43
2.3.8 3D luminance, View 1 51
2.3.9 3D pseudo colours, View 1 (E) 52

1 Luminaire data

1.1 Tamlite Lighting, CITY RL T4 (CTRT4280WWB)

1.1.1 Data sheet

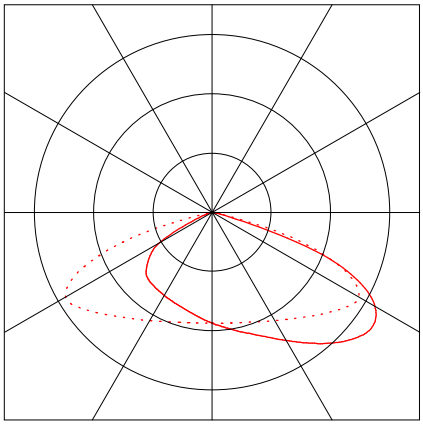
Manufacturer: Tamlite Lighting

CTRT4280WWB Road lanterns CITY RL T4
CITY RL T4 - Road lantern - Area optic - 23W - 3000K - Fixed output

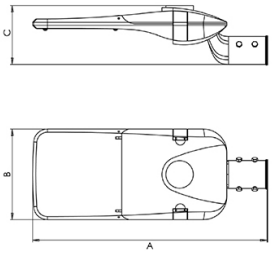
Luminaire data		
Absolute Photometry		
Luminaire efficacy	:	121.74 lm/W
Classification	:	A30 ↓100.0% ↑0.0%
CIE Flux Codes	:	32 70 97 100 100
UGR 4H 8H	:	32.6 / 32.1
Control gear	:	LED Driver
Power	:	23 W
Luminous flux	:	2800 lm

Equipped with		
Quantity	:	1
Designation	:	
Colour	:	
Socket	:	N/A

Dimensions : 230 mm x 595 mm x 140 mm







1 Luminaire data

1.2 Tamlite Lighting, CITY WL (CWL90T2WWB)

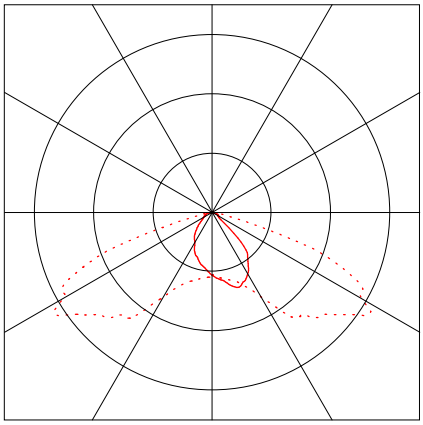
1.2.1 Data sheet

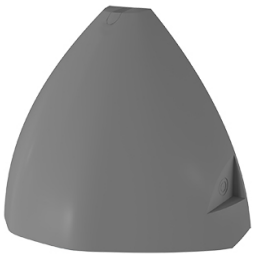
Manufacturer: Tamlite Lighting

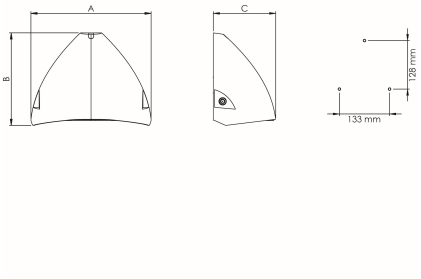
CWL90T2WWB Bulkhead - Exterior CITY WL
CITY WL - Exterior wall light - Road wide optic - 7W - 3000K - Fixed output

Luminaire data		
Absolute Photometry		
Luminaire efficacy	:	128.57 lm/W
Classification	:	A40 ↓99.4% ↑0.6%
CIE Flux Codes	:	39 78 98 99 100
UGR 4H 8H	:	17.2 / 28.0
Control gear	:	LED Driver
Power	:	7 W
Luminous flux	:	899.8 lm
Dimensions	:	319 mm x 165 mm x 244 mm

Equipped with		
Quantity	:	1
Designation	:	LED
Colour	:	
Socket	:	N/A







1 Luminaire data

1.3 Tamlite Lighting, CITY WL T4 (!CWL90T4WWB)

1.3.1 Data sheet

Manufacturer: Tamlite Lighting

!CWL90T4WWB Bulkhead - Exterior CITY WL T4
CITY WL T4 - Wall exterior - 19W - 3000K - Fixed output

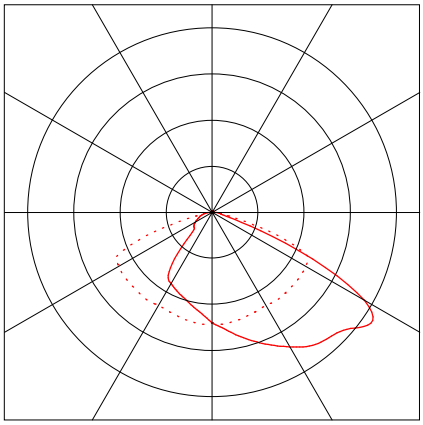
Luminaire data

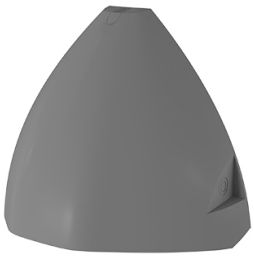
Absolute Photometry		
Luminaire efficacy	:	128.57 lm/W
Classification	:	A30 ↓99.0% ↑1.0%
CIE Flux Codes	:	38 74 97 99 100
UGR 4H 8H	:	26.0 / 25.7
Control gear	:	LED Driver
Power	:	7 W
Luminous flux	:	900 lm

Dimensions : 319 mm x 165 mm x 244 mm

Equipped with

Quantity	:	1
Designation	:	LED
Colour	:	
Socket	:	N/A







1 Luminaire data

1.4 Tamlite Lighting, CITY PATH (CPH70T4WWB)

1.4.1 Data sheet

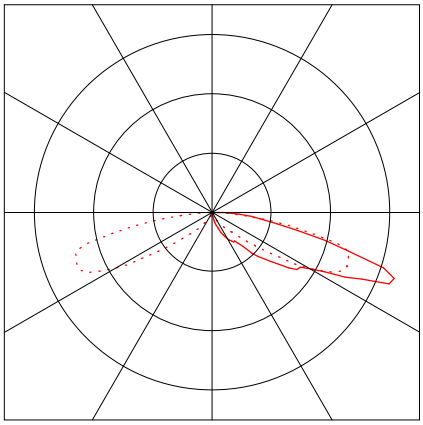
Manufacturer: Tamlite Lighting

CPH70T4WWB Bollard CITY PATH
CITY PATH - BOLLARD - 7W - 3000K - Fixed output

Luminaire data		
Luminaire efficiency	:	95.84%
Luminaire efficacy	:	95.84 lm/W
Classification	:	A10 ↓99.9% ↑0.1%
CIE Flux Codes	:	6 31 80 100 96
UGR 4H 8H	:	30.8 / 29.7
Control gear	:	LED Driver
Power	:	7 W
Luminous flux	:	672.9 lm

Equipped with		
Quantity	:	1
Designation	:	LED
Colour	:	
Luminous flux	:	700 lm
Socket	:	N/A

Dimensions : Ø180 mm x 1000 mm







2 Exterior

2.1 Description, Exterior

2.1.1 Luminaire data/Room elements

Product data:

Type No.\Make

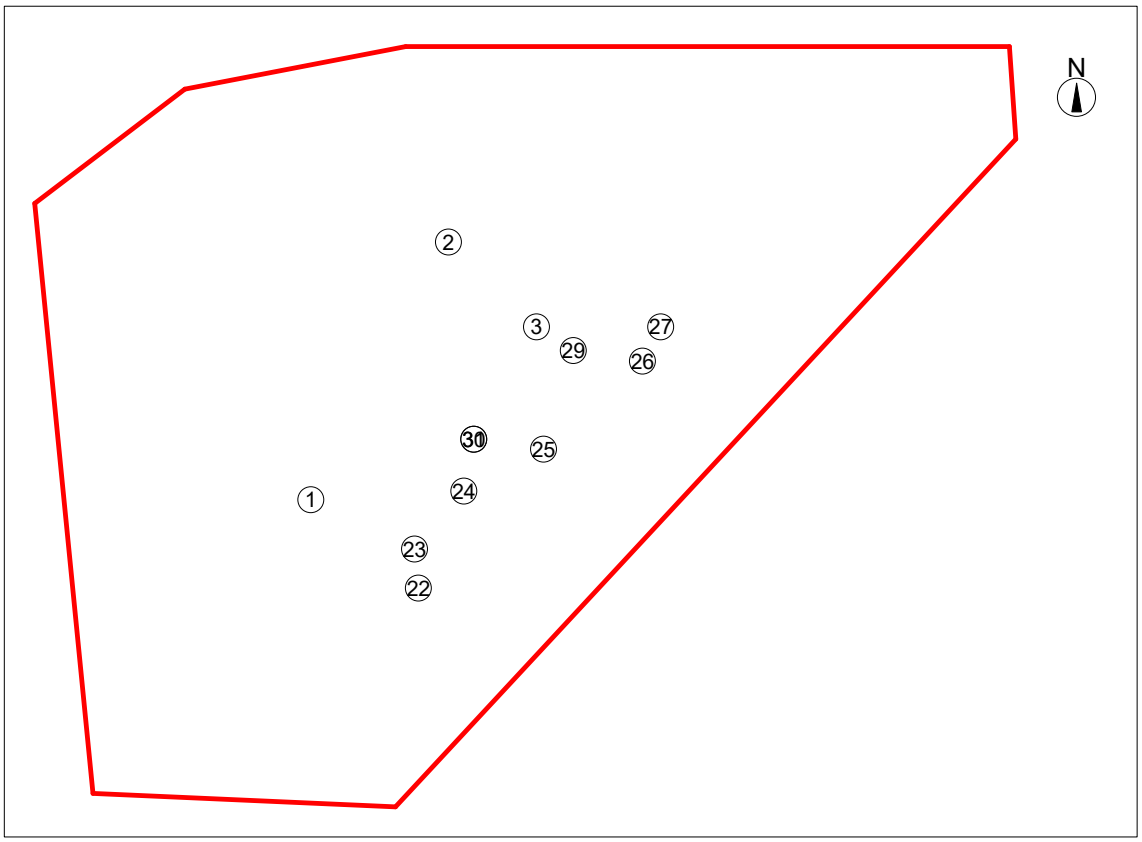
		Tamlite Lighting	
1	3 x	Order No.	: CTRT4280WWB
		Luminaire name	: CITY RL T4
		Equipment	: 1 x 23 W / 2800 lm
2	4 x	Order No.	: CWL90T2WWB
		Luminaire name	: CITY WL
		Equipment	: 1 x LED 7 W / 900 lm
3	5 x	Order No.	: !CWL90T4WWB
		Luminaire name	: CITY WL T4
		Equipment	: 1 x LED 7 W / 900 lm

2 Exterior

2.1 Description, Exterior

2.1.1 Luminaire data/Room elements

Floor with luminaire and sensor positions:



No.	Centre point X [m]	Y [m]	Z [m]	Rotation angle Z [°]	C0 [°]	C90 [°]	Target coordinates Xa [m]	Ya [m]	Za [m]
Tamlite Lighting CITY RL T4 CTRT4280WWB									
1	33.94	-35.73	5.04	60.00	0.00	0.00	37.41	-29.72	0.00
2	50.25	-5.12	5.04	240.00	0.00	0.00	46.78	-11.13	0.00
3	60.80	-14.83	5.04	150.00	0.00	0.00	54.79	-11.36	0.00
Tamlite Lighting CITY WL CWL90T2WWB									
23	46.29	-42.10	3.50	133.73	0.00	0.00	45.46	-41.23	0.00
29	65.64	-17.87	3.50	133.73	0.00	0.00	64.81	-17.00	0.00
30	53.52	-28.72	3.50	133.73	0.00	0.00	52.69	-27.84	0.00
31	53.52	-28.72	3.50	133.73	0.00	0.00	52.69	-27.84	0.00
Tamlite Lighting CITY WL T4 !CWL90T4WWB									
24	52.31	-35.14	2.80	223.73	0.00	0.00	49.42	-37.90	0.00
22	46.76	-46.95	2.80	223.40	0.00	0.00	43.86	-49.70	0.00
25	62.14	-29.92	2.80	43.73	0.00	0.00	65.03	-27.15	0.00
26	74.20	-19.17	2.80	43.73	0.00	0.00	77.08	-16.40	0.00
27	76.30	-15.01	2.40	133.73	0.00	0.00	73.93	-12.54	0.00

Structural elements

2 Exterior

2.1 Description, Exterior

2.1.1 Luminaire data/Room elements

Measuring surface

No.	xm[m]	ym[m]	zm[m]	Length	Width	Rotation angle z axis	Rotation angle L axis	Rotation angle Q axis
Ref. plane 1.1								
	18.32	13.96	0.00	128.64	103.50	275.64	0.00	0.00
M 1	42.81	-62.24	0.00	65.29	63.70	0.00	0.00	0.00
M 3	47.19	-40.02	0.00	8.92	9.48	0.00	0.00	0.00
M 4	56.26	-23.98	0.00	13.66	14.24	0.00	0.00	0.00
M 5	68.41	-13.27	0.00	11.42	13.31	0.00	0.00	0.00
M 6	74.62	-15.53	0.00	4.91	4.31	0.00	0.00	0.00
M 7								
M 9	41.17	-47.47	0.00	10.08	9.05	0.26	0.00	0.00
M 8								
M 10	43.82	-43.45	0.00	11.32	10.92	43.01	0.00	0.00

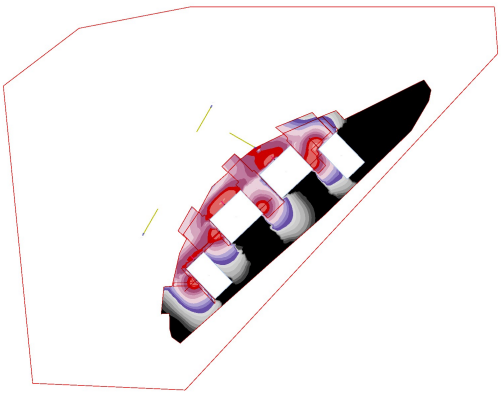
Others

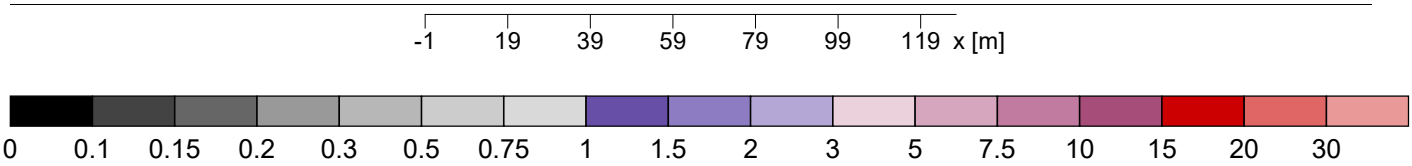
No.	xm[m]	ym[m]	zm[m]	Length	Width	Rotation angle z axis	Rotation angle L axis	Rotation angle Q axis	rho[%]
A 1	51.25	-51.52	0.00	11.14	11.29	0.00	0.00	0.00	49
A 2	55.25	-38.10	0.00	12.91	12.91	0.00	0.00	0.00	49
A 3	67.41	-27.19	0.00	12.99	12.81	0.00	0.00	0.00	49
A 4	83.19	-22.53	0.00	11.22	11.29	0.00	0.00	0.00	49
A 1	61.78	-15.33	0.00	0.01	0.01	0.00	0.00	0.00	50
A 2	50.76	-4.07	0.00	0.01	0.01	0.00	0.00	0.00	50
A 3	33.35	-36.73	0.00	0.01	0.01	0.00	0.00	0.00	50

2 Exterior

2.2 Summary, Exterior

2.2.1 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	16500 lm
Total power	132 W
Total power per area (7420.04 m²)	0.02 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	4.3 lx
Minimum illuminance	E_{min}	0 lx
Maximum illuminance	E_{max}	36.5 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:--- (---)
Diversity U_d	E_{min}/E_{max}	1:--- (---)

Type No.\Make

		Tamlite Lighting	
1	3 x	Order No.	: CTRT4280WWB
		Luminaire name	: CITY RL T4
		Equipment	: 1 x 23 W / 2800 lm
2	4 x	Order No.	: CWL90T2WWB
		Luminaire name	: CITY WL
		Equipment	: 1 x LED 7 W / 900 lm

2 Exterior

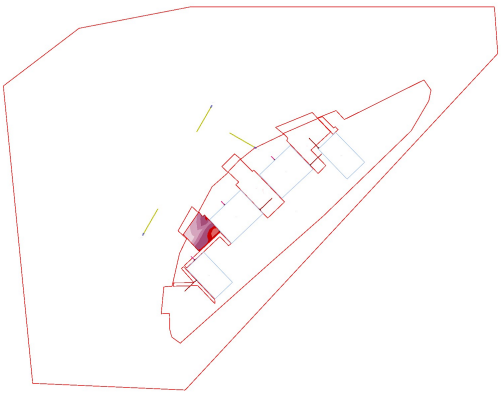
2.2 Summary, Exterior

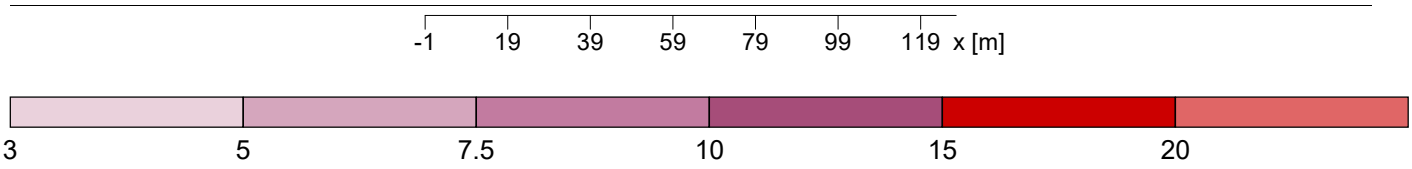
2.2.1 Result overview, Measuring area 1

3	5 x	Order No.	: !CWL90T4WWB
B1		Luminaire name	: CITY WL T4
		Equipment	: 1 x LED 7 W / 900 lm

2.2 Summary, Exterior

2.2.2 Result overview, Measuring area 3





General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux	16500 lm
Total power	132 W
Total power per area (7420.04 m²)	0.02 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	10.5 lx
Minimum illuminance	E_{min}	4.1 lx
Maximum illuminance	E_{max}	25.1 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.53 (0.39)
Diversity U_d	E_{min}/E_{max}	1:6.05 (0.17)

Type No.\Make

		Tamlite Lighting	
1	3 x	Order No.	: CTRT4280WWB
		Luminaire name	: CITY RL T4
		Equipment	: 1 x 23 W / 2800 lm
2	4 x	Order No.	: CWL90T2WWB
		Luminaire name	: CITY WL
		Equipment	: 1 x LED 7 W / 900 lm

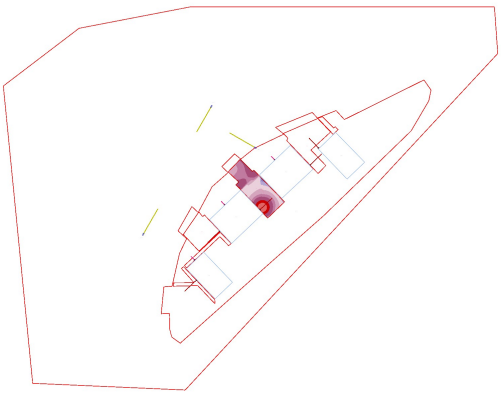
2.2 Summary, Exterior

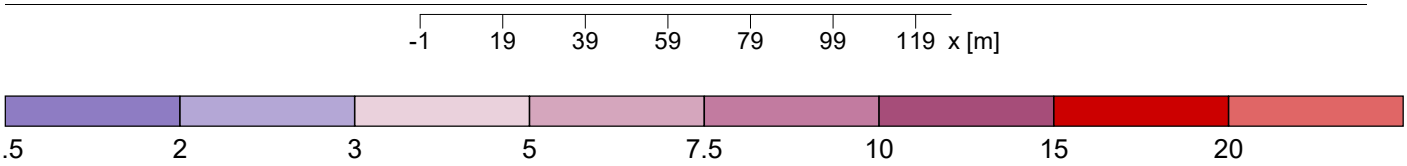
2.2.2 Result overview, Measuring area 3

3	5 x	Order No.	: !CWL90T4WWB
B1		Luminaire name	: CITY WL T4
		Equipment	: 1 x LED 7 W / 900 lm

2.2 Summary, Exterior

2.2.3 Result overview, Measuring area 4





General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux	16500 lm
Total power	132 W
Total power per area (7420.04 m²)	0.02 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	8.9 lx
Minimum illuminance	E_{min}	1.6 lx
Maximum illuminance	E_{max}	25.2 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:5.58 (0.18)
Diversity U_d	E_{min}/E_{max}	1:15.8 (0.06)

Type No.\Make

		Tamlite Lighting	
1	3 x	Order No.	: CTRT4280WWB
		Luminaire name	: CITY RL T4
		Equipment	: 1 x 23 W / 2800 lm
2	4 x	Order No.	: CWL90T2WWB
		Luminaire name	: CITY WL
		Equipment	: 1 x LED 7 W / 900 lm

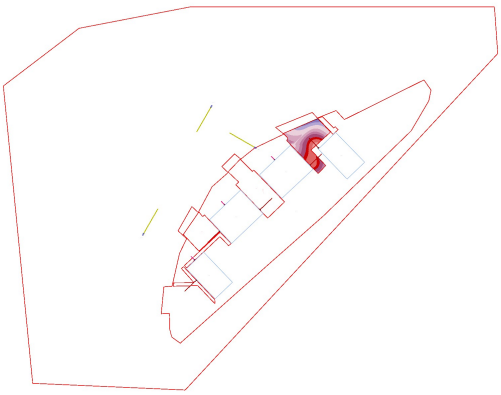
2.2 Summary, Exterior

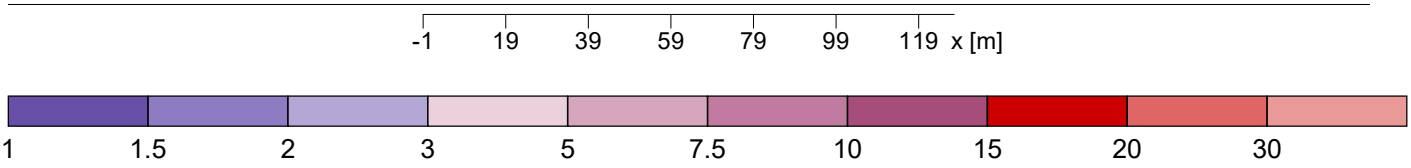
2.2.3 Result overview, Measuring area 4

3	5 x	Order No.	: !CWL90T4WWB
B1		Luminaire name	: CITY WL T4
		Equipment	: 1 x LED 7 W / 900 lm

2.2 Summary, Exterior

2.2.4 Result overview, Measuring area 5





General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux	16500 lm
Total power	132 W
Total power per area (7420.04 m²)	0.02 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	11.1 lx
Minimum illuminance	E_{min}	1.4 lx
Maximum illuminance	E_{max}	36.8 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:7.95 (0.13)
Diversity U_d	E_{min}/E_{max}	1:26.5 (0.04)

Type No.\Make

		Tamlite Lighting	
1	3 x	Order No.	: CTRT4280WWB
		Luminaire name	: CITY RL T4
		Equipment	: 1 x 23 W / 2800 lm
2	4 x	Order No.	: CWL90T2WWB
		Luminaire name	: CITY WL
		Equipment	: 1 x LED 7 W / 900 lm

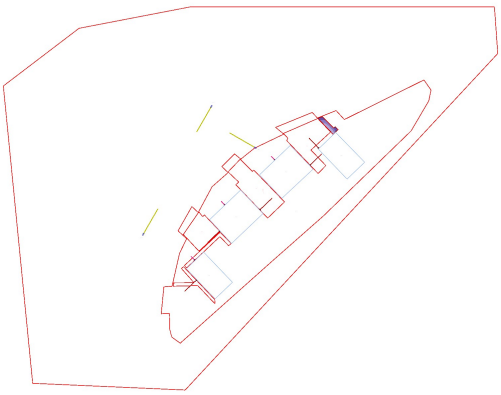
2.2 Summary, Exterior

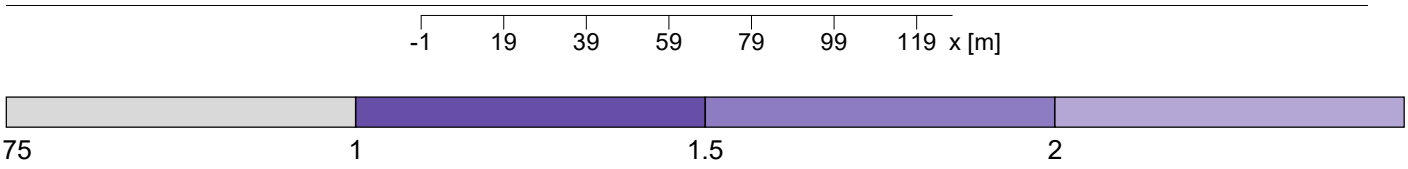
2.2.4 Result overview, Measuring area 5

3	5 x	Order No.	: !CWL90T4WWB
B1		Luminaire name	: CITY WL T4
		Equipment	: 1 x LED 7 W / 900 lm

2.2 Summary, Exterior

2.2.5 Result overview, Measuring area 6





Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux	16500 lm
Total power	132 W
Total power per area (7420.04 m²)	0.02 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	1.82 lx
Minimum illuminance	E_{min}	0.92 lx
Maximum illuminance	E_{max}	2.74 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.98 (0.51)
Diversity U_d	E_{min}/E_{max}	1:2.98 (0.34)

Type No.\Make

		Tamlite Lighting	
1	3 x	Order No.	: CTRT4280WWB
	A	Luminaire name	: CITY RL T4
		Equipment	: 1 x 23 W / 2800 lm
2	4 x	Order No.	: CWL90T2WWB
	B	Luminaire name	: CITY WL
		Equipment	: 1 x LED 7 W / 900 lm

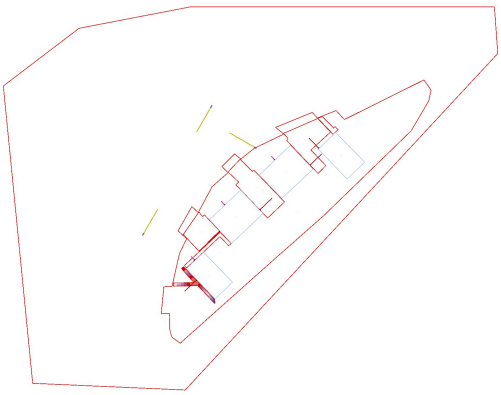
2.2 Summary, Exterior

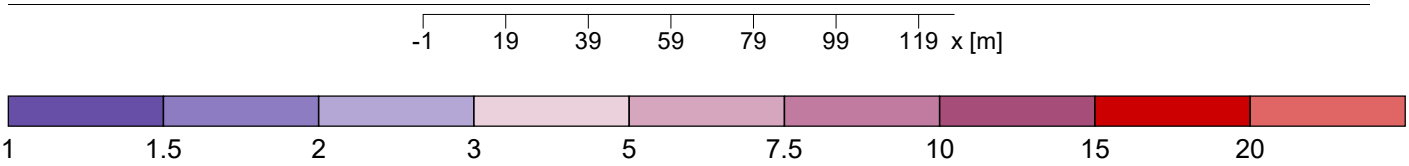
2.2.5 Result overview, Measuring area 6

3	5 x	Order No.	: !CWL90T4WWB
B1		Luminaire name	: CITY WL T4
		Equipment	: 1 x LED 7 W / 900 lm

2.2 Summary, Exterior

2.2.6 Result overview, M 7





General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux	16500 lm
Total power	132 W
Total power per area (7420.04 m²)	0.02 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	12 lx
Minimum illuminance	E_{min}	1 lx
Maximum illuminance	E_{max}	25.5 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:11.9 (0.08)
Diversity U_d	E_{min}/E_{max}	1:25.3 (0.04)

Type No.\Make

		Tamlite Lighting	
1	3 x	Order No.	: CTRT4280WWB
A		Luminaire name	: CITY RL T4
		Equipment	: 1 x 23 W / 2800 lm
2	4 x	Order No.	: CWL90T2WWB
B		Luminaire name	: CITY WL
		Equipment	: 1 x LED 7 W / 900 lm

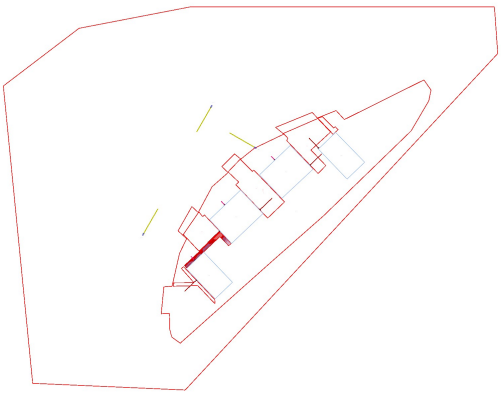
2.2 Summary, Exterior

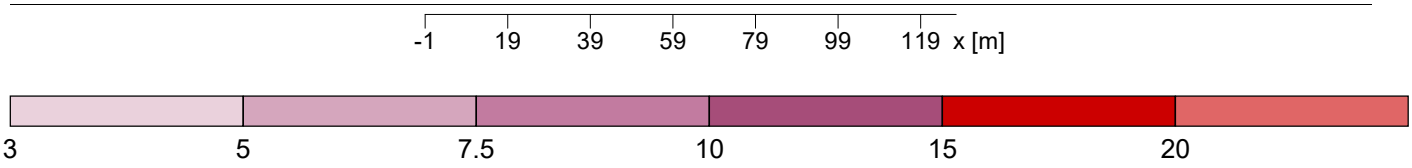
2.2.6 Result overview, M 7

3	5 x	Order No.	: !CWL90T4WWB
B1		Luminaire name	: CITY WL T4
		Equipment	: 1 x LED 7 W / 900 lm

2.2 Summary, Exterior

2.2.7 Result overview, M 8





Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux	16500 lm
Total power	132 W
Total power per area (7420.04 m²)	0.02 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	15.4 lx
Minimum illuminance	E_{min}	4.4 lx
Maximum illuminance	E_{max}	26.8 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.52 (0.28)
Diversity U_d	E_{min}/E_{max}	1:6.12 (0.16)

Type No.\Make

		Tamlite Lighting	
1	3 x	Order No.	: CTRT4280WWB
		Luminaire name	: CITY RL T4
		Equipment	: 1 x 23 W / 2800 lm
2	4 x	Order No.	: CWL90T2WWB
		Luminaire name	: CITY WL
		Equipment	: 1 x LED 7 W / 900 lm

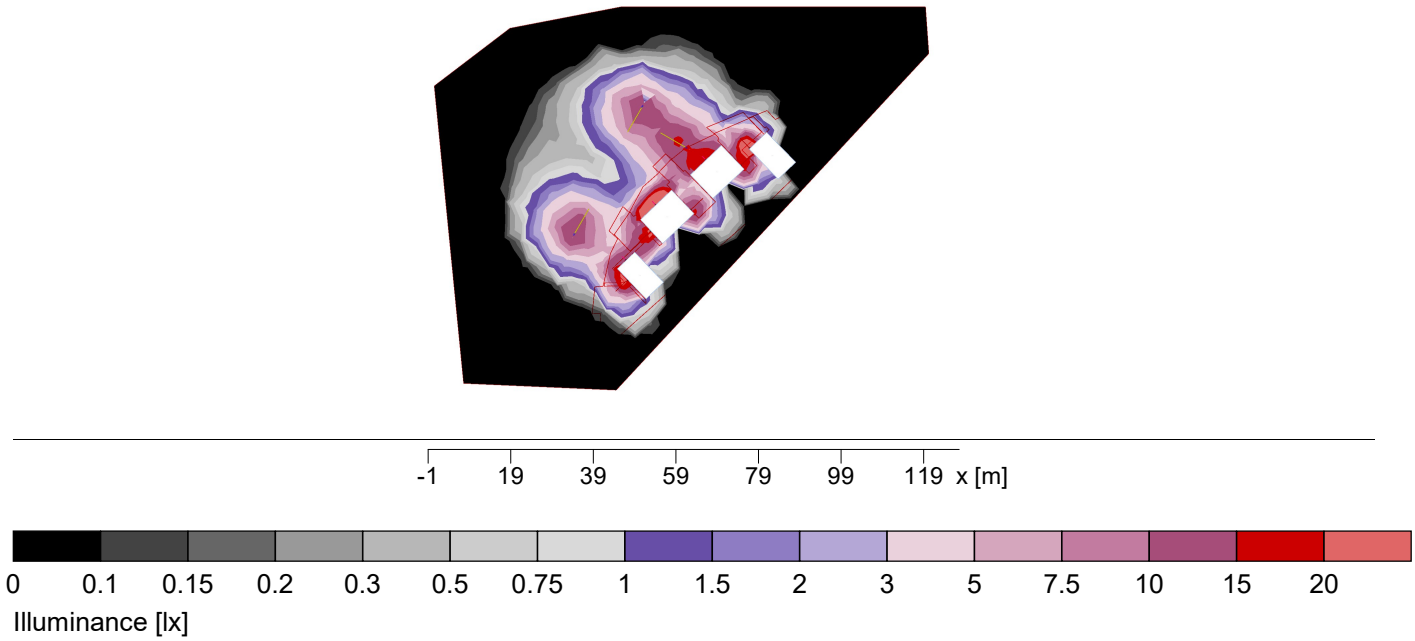
2.2 Summary, Exterior

2.2.7 Result overview, M 8

3	5 x	Order No.	: !CWL90T4WWB
B1		Luminaire name	: CITY WL T4
		Equipment	: 1 x LED 7 W / 900 lm

2.2 Summary, Exterior

2.2.8 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total lamp luminous flux	16500 lm
Luminaire luminous flux	16499 lm
Total power	132.0 W
Total power per area (7420.04 m²)	0.02 W/m² (1.07 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**
	Horizontal
$\bar{E}_m$	1.66 lx
E_{min}	0 lx
$E_{min}/\bar{E}_m$ (U_o)	---
E_{min}/E_{max} (U_d)	---
Position	0.00 m

Type No.\Make

		Tamlite Lighting	
1	3 x	Order No.	: CTRT4280WWB
		Luminaire name	: CITY RL T4
		Equipment	: 1 x 23 W / 2800 lm

2.2 Summary, Exterior

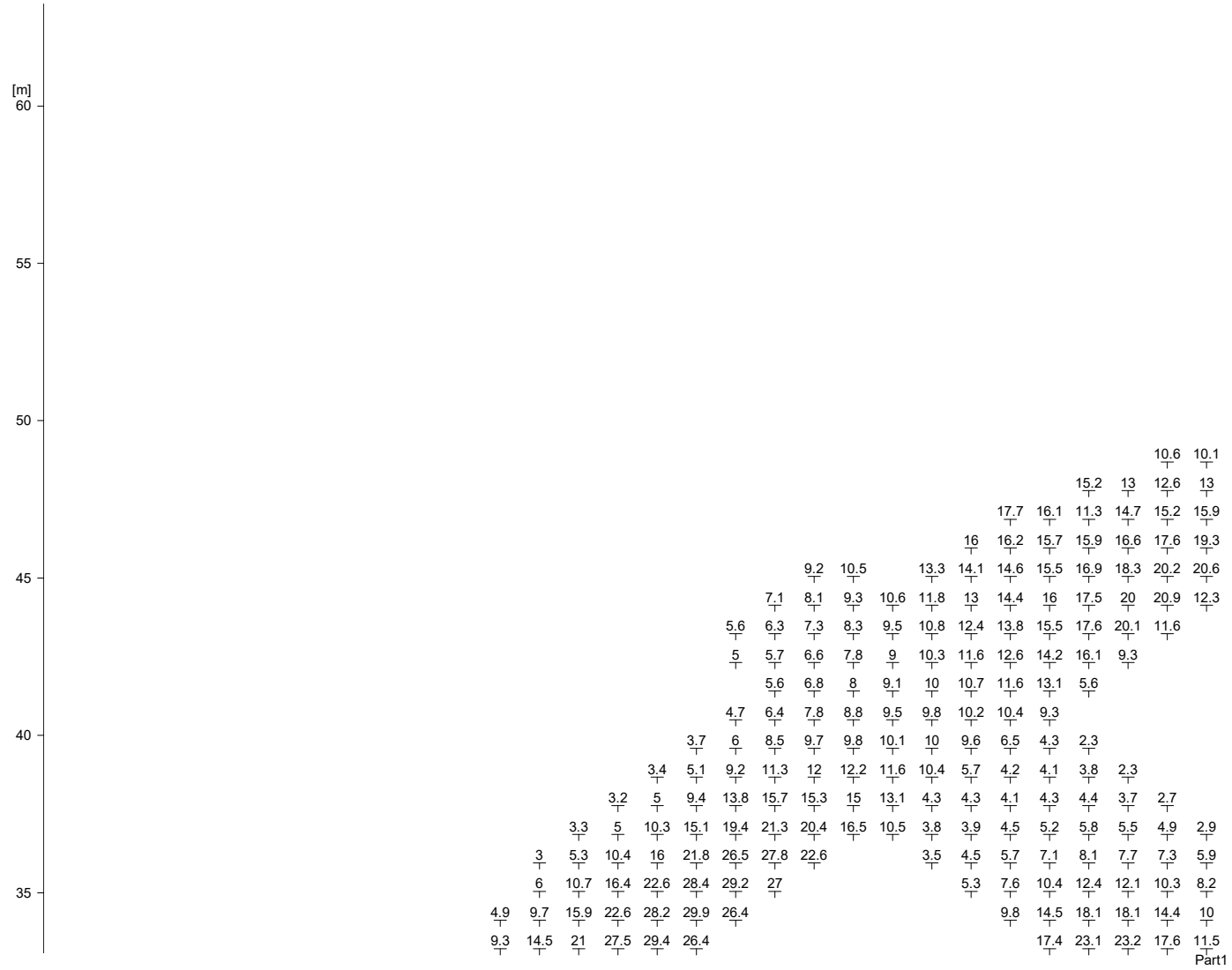
2.2.8 Result overview, Evaluation area 1

2	4 x	Order No.	: CWL90T2WWB
B		Luminaire name	: CITY WL
		Equipment	: 1 x LED 7 W / 900 lm
3	5 x	Order No.	: !CWL90T4WWB
B1		Luminaire name	: CITY WL T4
		Equipment	: 1 x LED 7 W / 900 lm

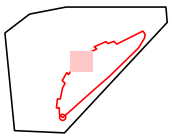
2 Exterior

2.3 Calculation results, Exterior

2.3.1 Table, Measuring area 1 (E)



Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 4.3 lx
Minimum illuminance	E_{min}	: 0 lx
Maximum illuminance	E_{max}	: 36.5 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: ---



2 Exterior

2.3 Calculation results, Exterior

2.3.1 Table, Measuring area 1 (E)

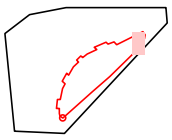
| | | |

2 Exterior

2.3 Calculation results, Exterior

2.3.1 Table, Measuring area 1 (E)

(0)
(0) (0) (0) (0)
(0) (0) (0) (0) (0) (0)
(0) (0) (0) (0) (0) (0) (0) (0) (0) (0)
(0) (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)
(0) (0) (0) (0) (0) (0) (0) (0) (0) (0)
(0) (0) (0) (0) (0) (0) (0) (0) (0)
(0) (0) (0) (0) (0) (0) (0) (0)
(0) (0) (0) (0) (0) (0) (0)
(0) (0) (0) (0) (0) (0) (0)
(0) (0) (0) (0) (0) (0)
(0) (0) (0) (0) (0) (0)
(0) (0) (0) (0) (0)
(0) (0) (0) (0)
(0) (0) (0)
(0) (0)
(0)

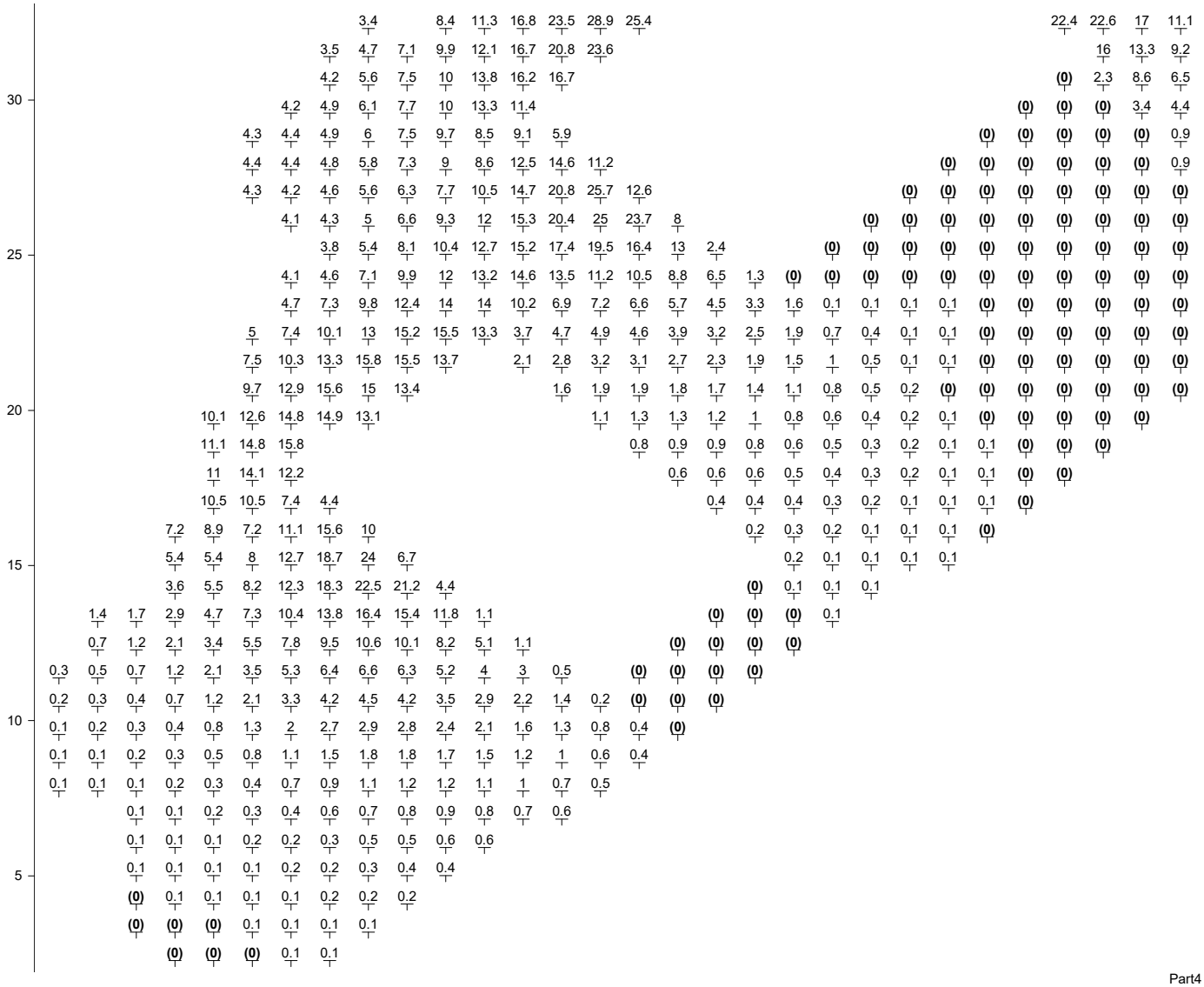


Part3

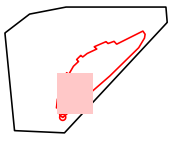
2 Exterior

2.3 Calculation results, Exterior

2.3.1 Table, Measuring area 1 (E)



Part4

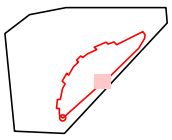


2 Exterior

2.3 Calculation results, Exterior

2.3.1 Table, Measuring area 1 (E)

7.1	4.7	3.1	2	1.3	0.8	0.5	0.4	0.2	0.2	0.1	0.1	0.1	(0)	(0)
6	4	2.7	1.9	1.3	0.9	0.6	0.4	0.3	0.2	0.1	0.1	0.1	(0)	
4.5	3.1	2.3	1.7	1.2	0.9	0.6	0.4	0.3	0.2	0.1	0.1	0.1		
3.3	2.4	1.8	1.4	1.1	0.8	0.6	0.4	0.3	0.2	0.1	0.1			
2.4	1.9	1.4	1.1	0.9	0.7	0.5	0.4	0.3	0.2	0.1				
1.5	1.3	1	0.8	0.6	0.5	0.4	0.3	0.2						
0.1	0.7	0.6	0.5	0.4	0.3	0.3	0.2							
(0)	0.1	0.3	0.3	0.2	0.2	0.2								
(0)	(0)	0.1	0.2	0.1	0.1									
(0)	(0)	0.1	0.1	0.1										
(0)	(0)	(0)	(0)											
(0)	(0)	(0)												
(0)	(0)													

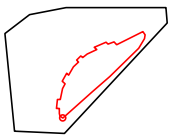


Part5

2 Exterior

2.3 Calculation results, Exterior

2.3.1 Table, Measuring area 1 (E)

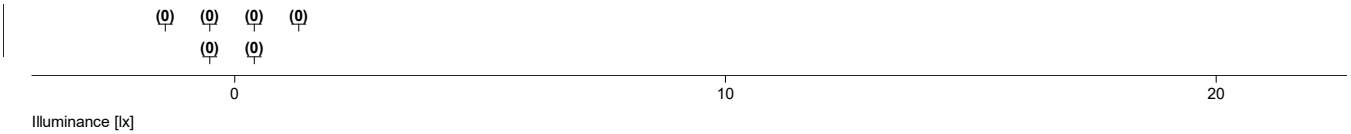


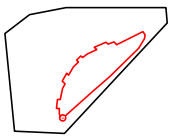
Part6

2 Exterior

2.3 Calculation results, Exterior

2.3.1 Table, Measuring area 1 (E)





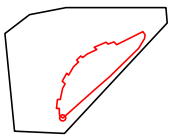
Part7

2 Exterior

2.3 Calculation results, Exterior

2.3.1 Table, Measuring area 1 (E)





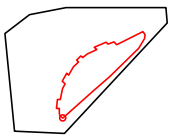
Part8

2 Exterior

2.3 Calculation results, Exterior

2.3.1 Table, Measuring area 1 (E)

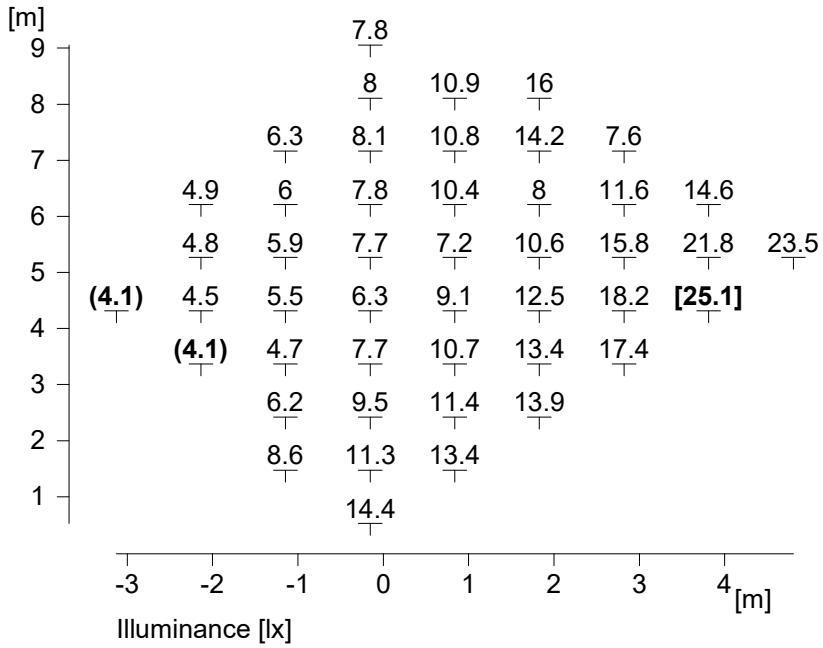
60 [m]

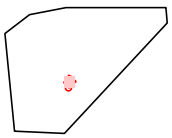


Part9

2.3 Calculation results, Exterior

2.3.2 Table, Measuring area 3 (E)

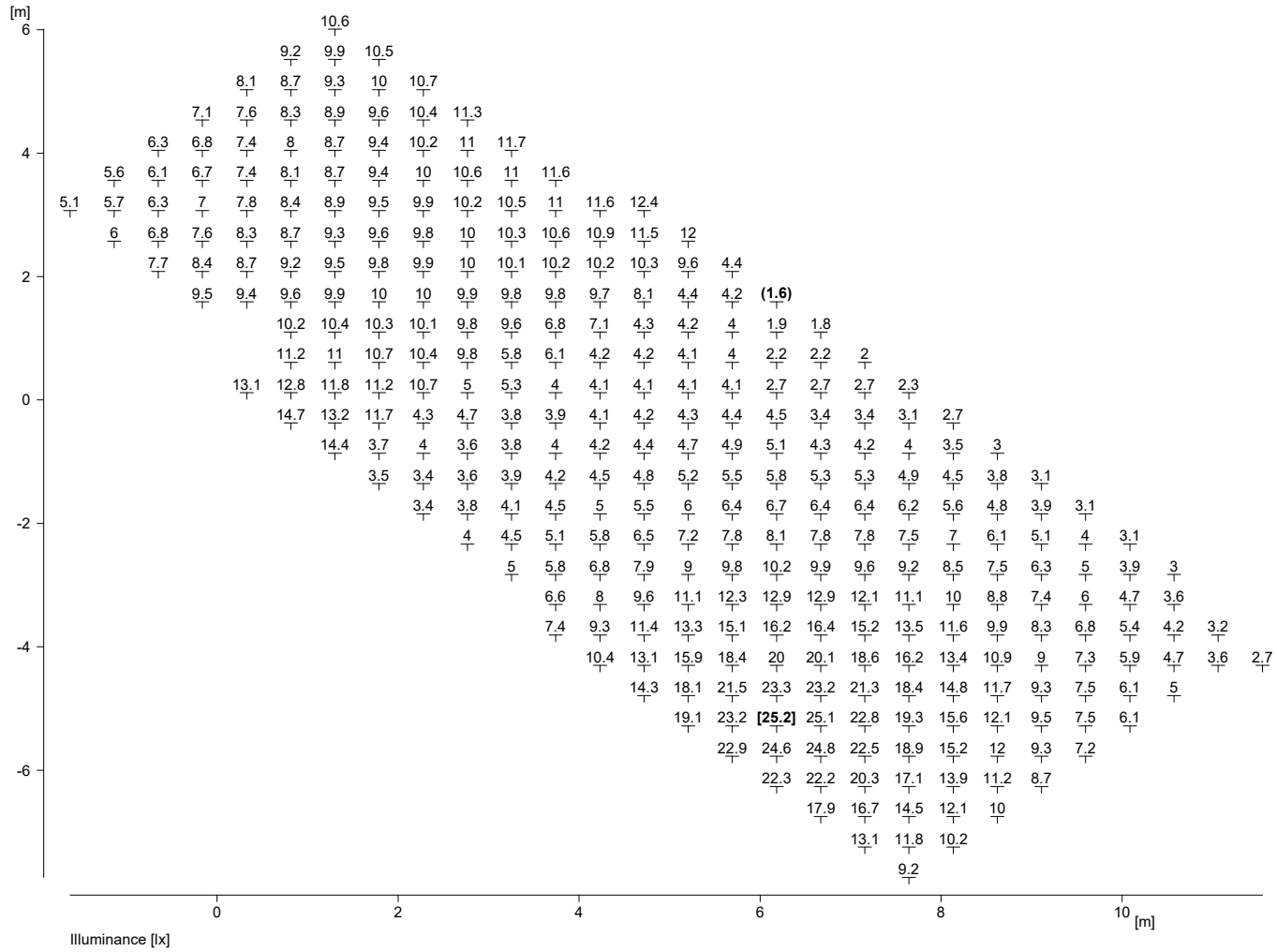




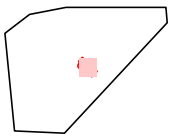
Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 10.5 lx
Minimum illuminance	E_{min}	: 4.1 lx
Maximum illuminance	E_{max}	: 25.1 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 2.53 (0.39)

2.3 Calculation results, Exterior

2.3.3 Table, Measuring area 4 (E)

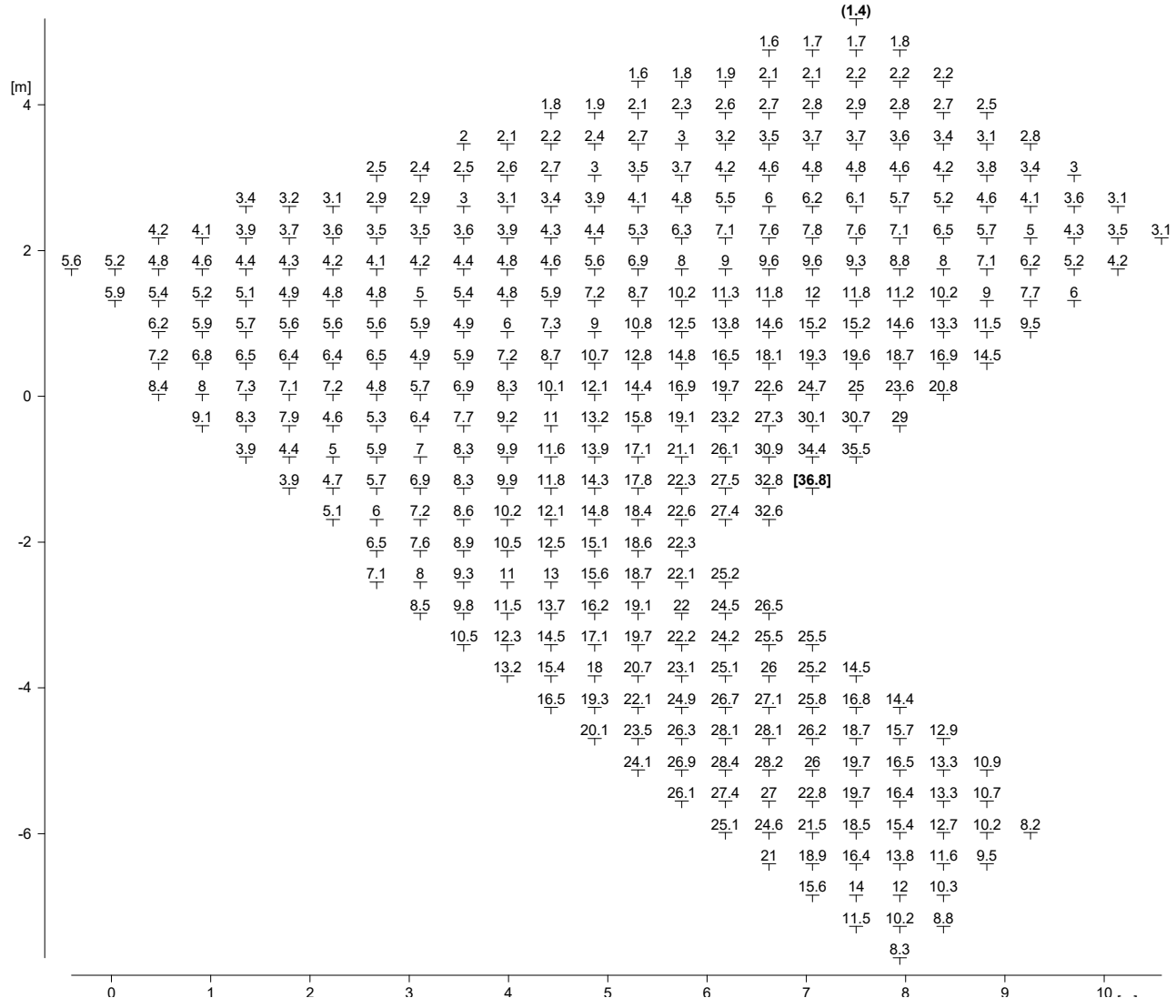


Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 8.9 lx
Minimum illuminance	E_{min}	: 1.6 lx
Maximum illuminance	E_{max}	: 25.2 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 5.58 (0.18)

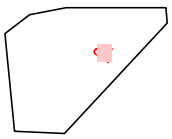


2.3 Calculation results, Exterior

2.3.4 Table, Measuring area 5 (E)

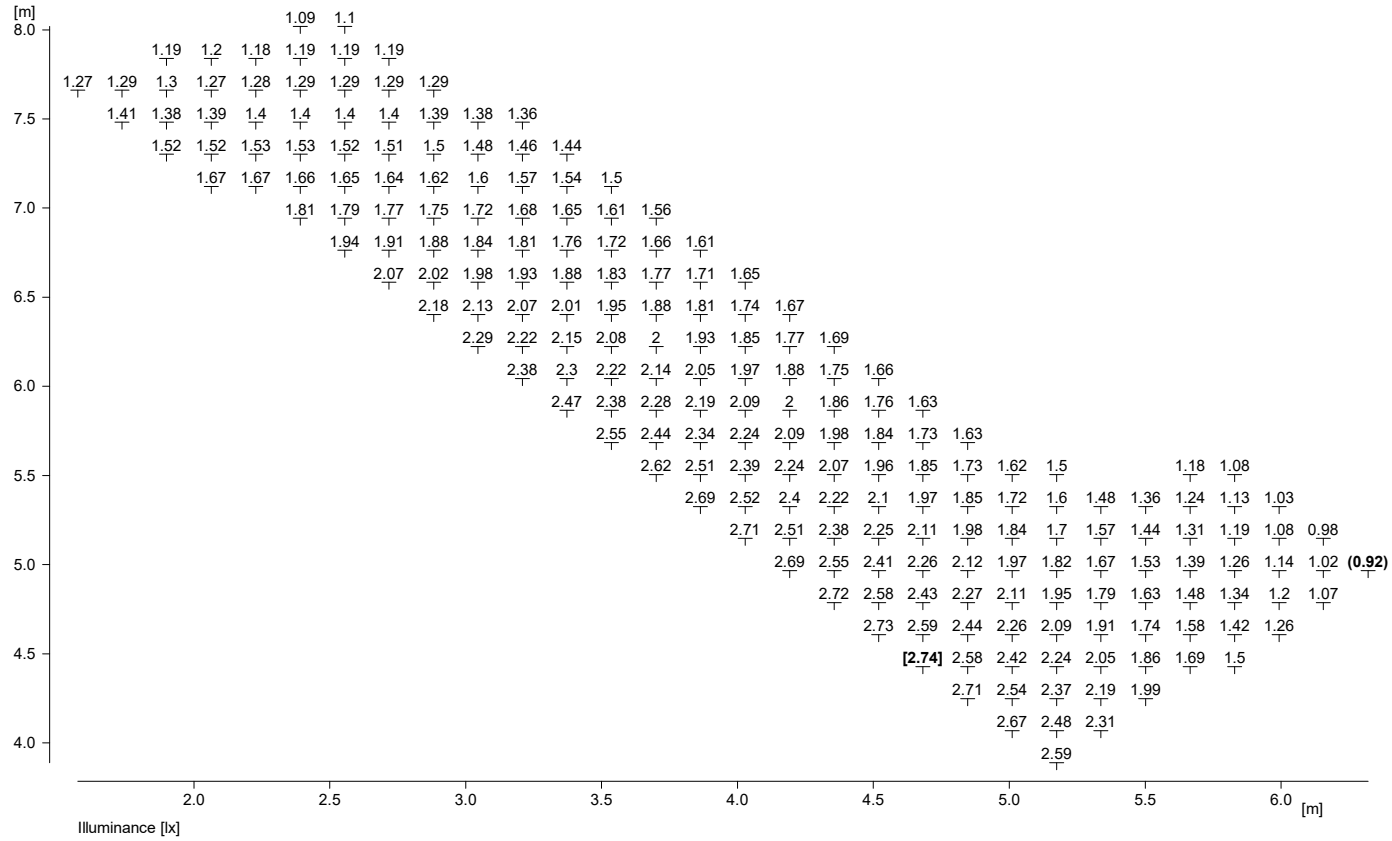


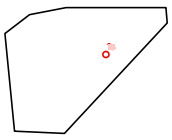
Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 11.1 lx
Minimum illuminance	E_{min}	: 1.4 lx
Maximum illuminance	E_{max}	: 36.8 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 7.95 (0.13)



2.3 Calculation results, Exterior

2.3.5 Table, Measuring area 6 (E)





Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 1.82 lx
Minimum illuminance	E_{min}	: 0.92 lx
Maximum illuminance	E_{max}	: 2.74 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 1.98 (0.51)

2.3 Calculation results, Exterior

2.3.6 Table, M 7 (E)

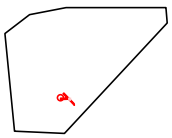


Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 12 lx
Minimum illuminance	E_{min}	: 1 lx
Maximum illuminance	E_{max}	: 25.5 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 11.93 (0.08)

2.3 Calculation results, Exterior

2.3.6 Table, M 7 (E)

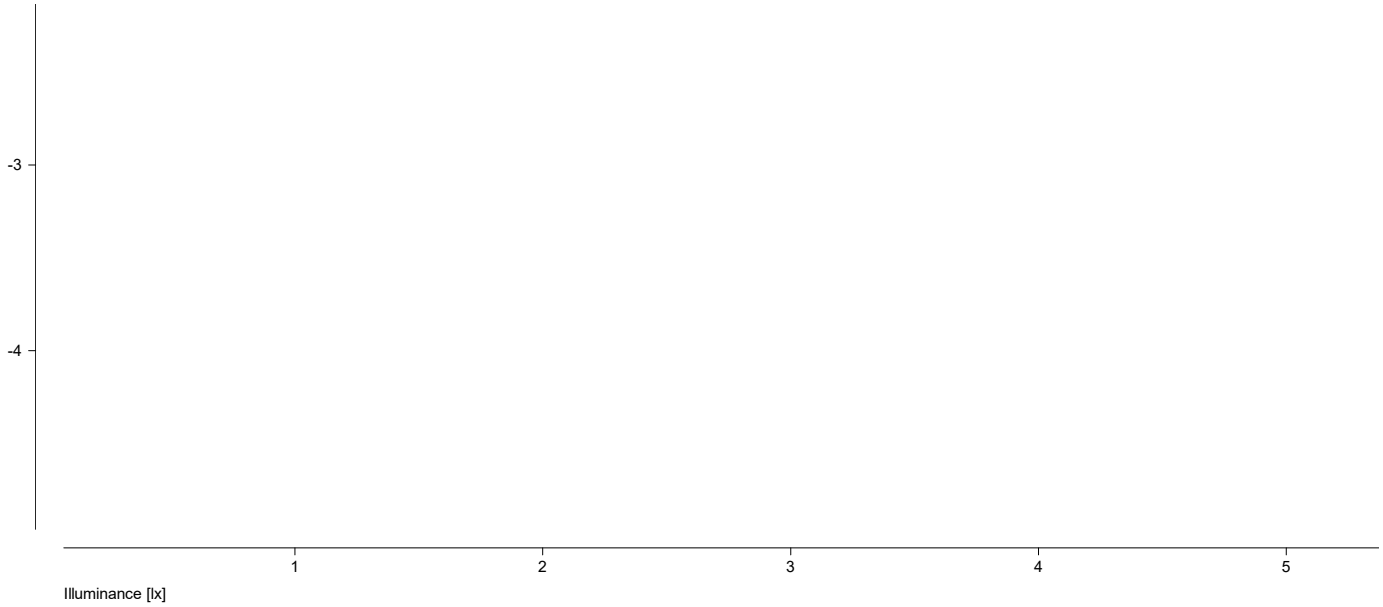
23.6											
24.1	23.3										
24.3	23.4	22.2									
24.1	23.2	22	20.5								
23.7	22.8	21.5	20.1	18.5							
22.9	22.1	20.9	19.5	18	16.5						
21.9	21.1	20	18.7	17.4	15.9	14.5					
			17.8	16.6	15.3	14.1	12.9				
				15.7	14.7	13.6	12.5	11.4			
					13.9	12.9	11.9	10.9	9.9		
					13	12.1	11.2	10.4	9.5		
						11.4	10.6	9.8	9	8.2	
							10	9.2	8.5	7.8	7.1
								8.7	8	7.3	6.7	6.2

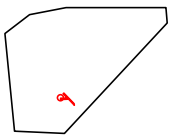


Part2

2.3 Calculation results, Exterior

2.3.6 Table, M 7 (E)

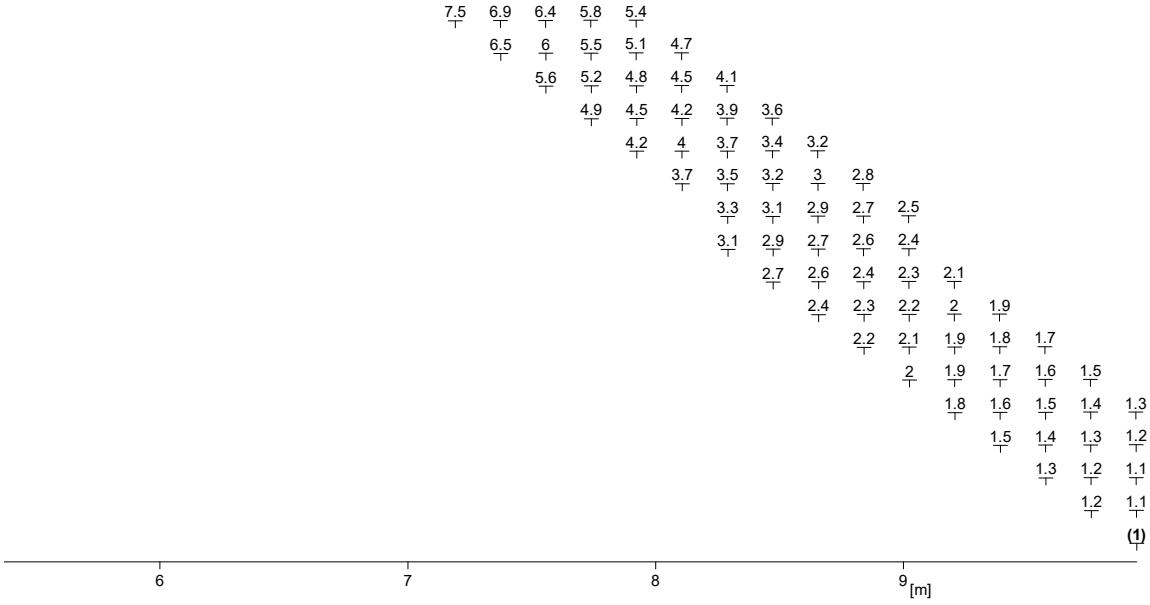


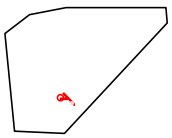


Part3

2.3 Calculation results, Exterior

2.3.6 Table, M 7 (E)





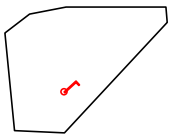
Part4

2.3 Calculation results, Exterior

2.3.7 Table, M 8 (E)

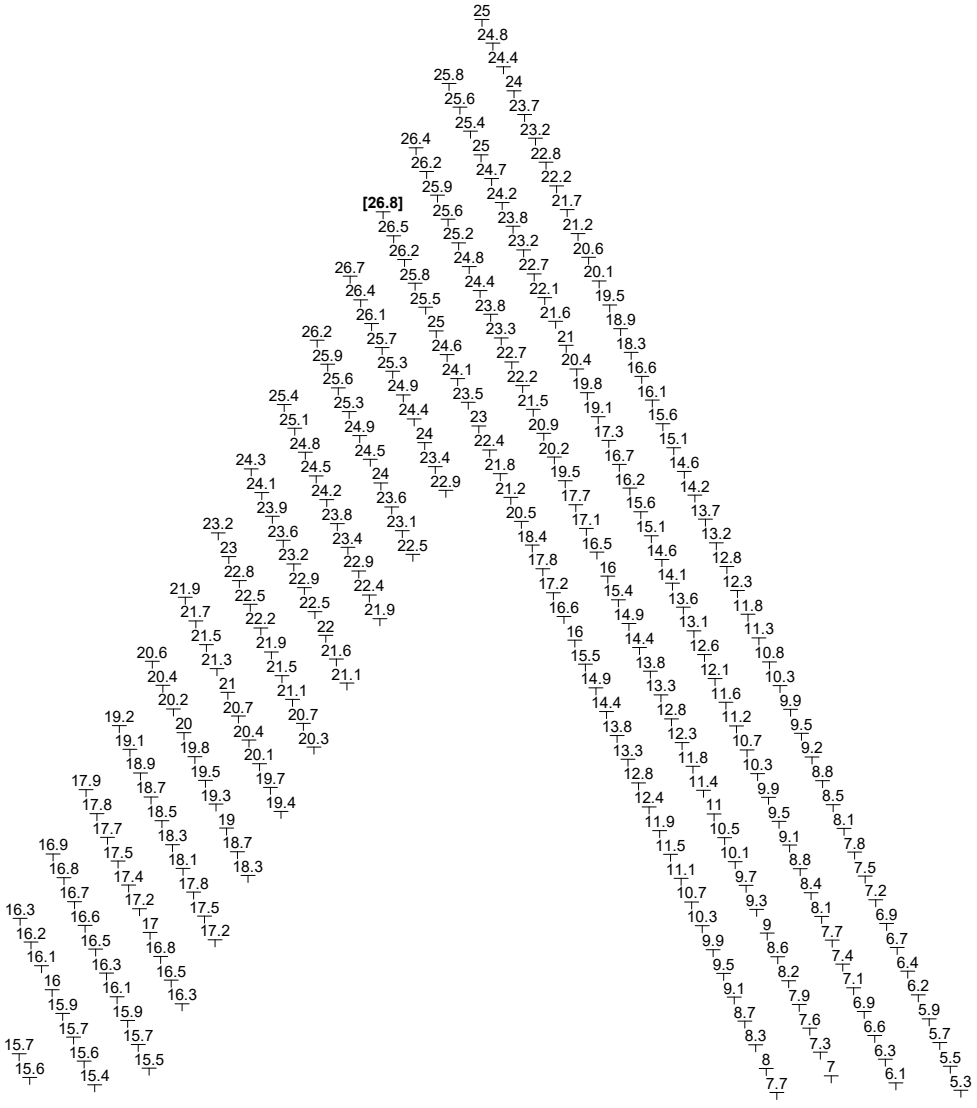


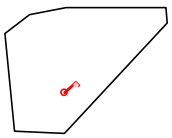
Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 15.4 lx
Minimum illuminance	E_{min}	: 4.4 lx
Maximum illuminance	E_{max}	: 26.8 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 3.52 (0.28)



2.3 Calculation results, Exterior

2.3.7 Table, M 8 (E)

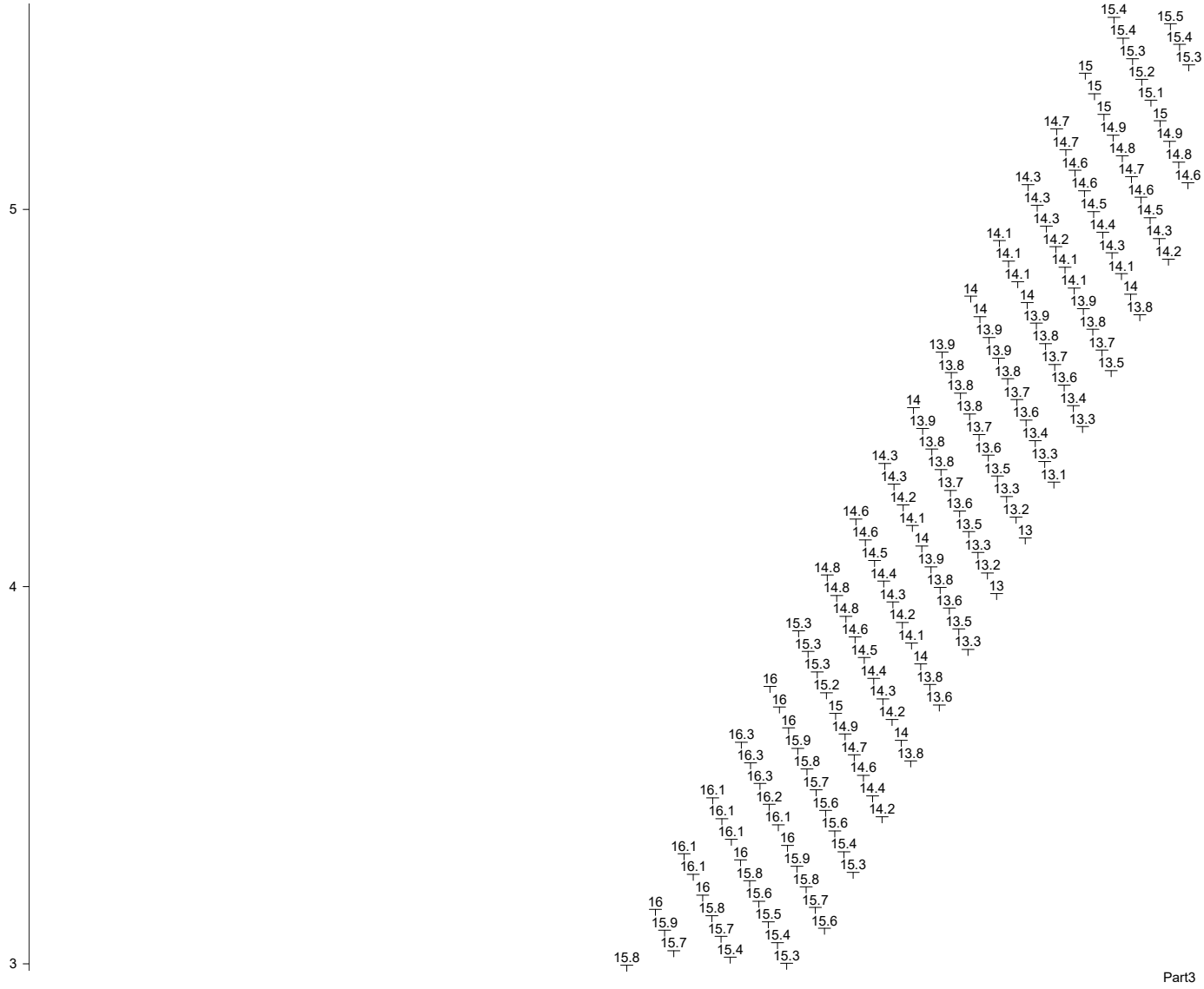


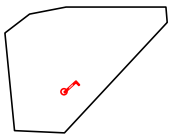


Part2

2.3 Calculation results, Exterior

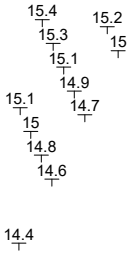
2.3.7 Table, M 8 (E)

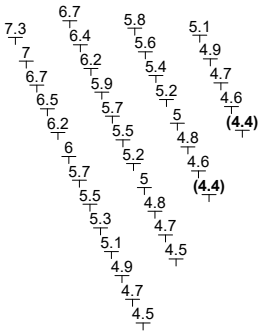


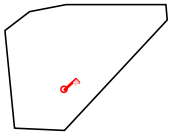


2.3 Calculation results, Exterior

2.3.7 Table, M 8 (E)



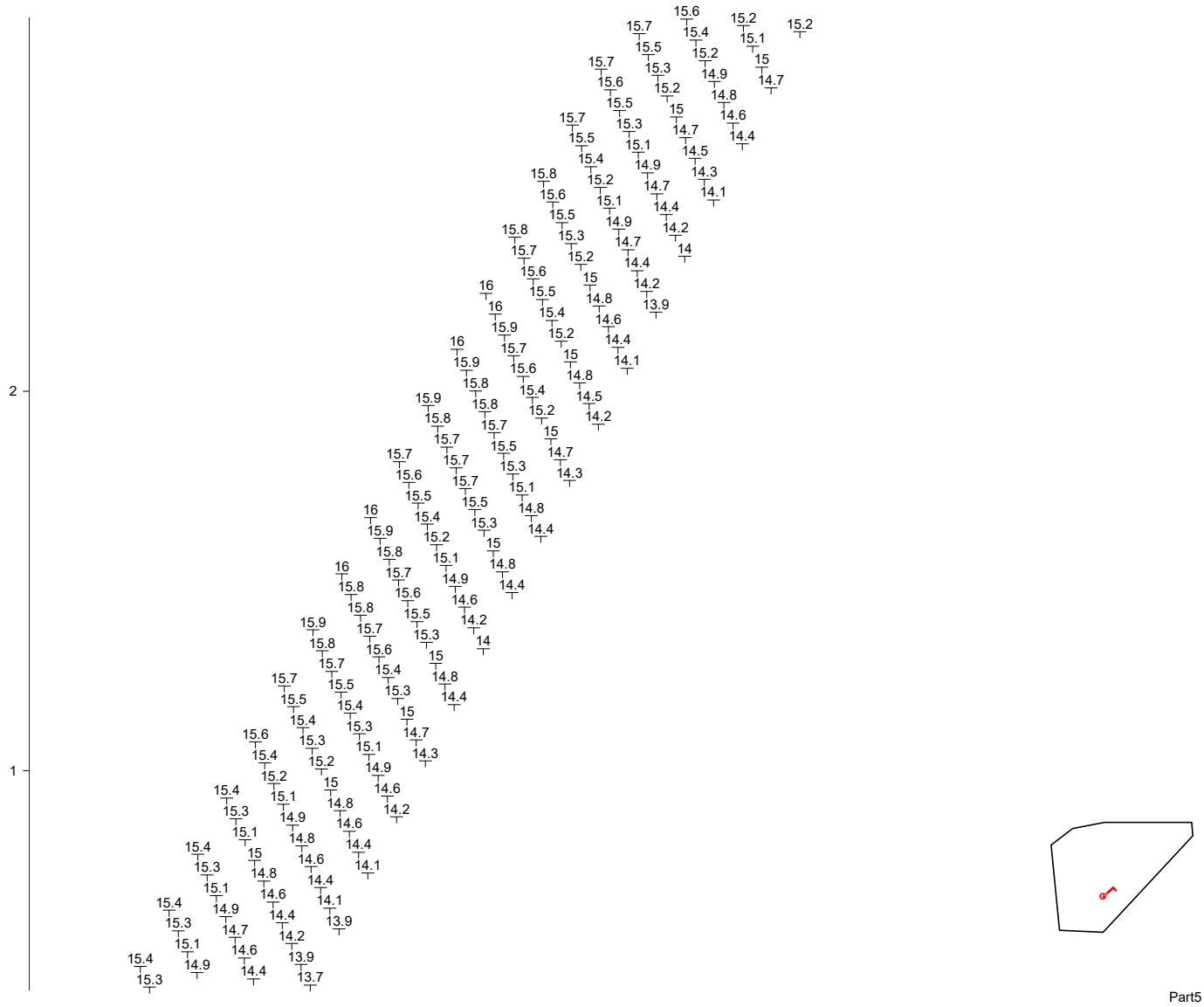




Part4

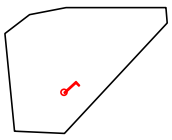
2.3 Calculation results, Exterior

2.3.7 Table, M 8 (E)



2.3 Calculation results, Exterior

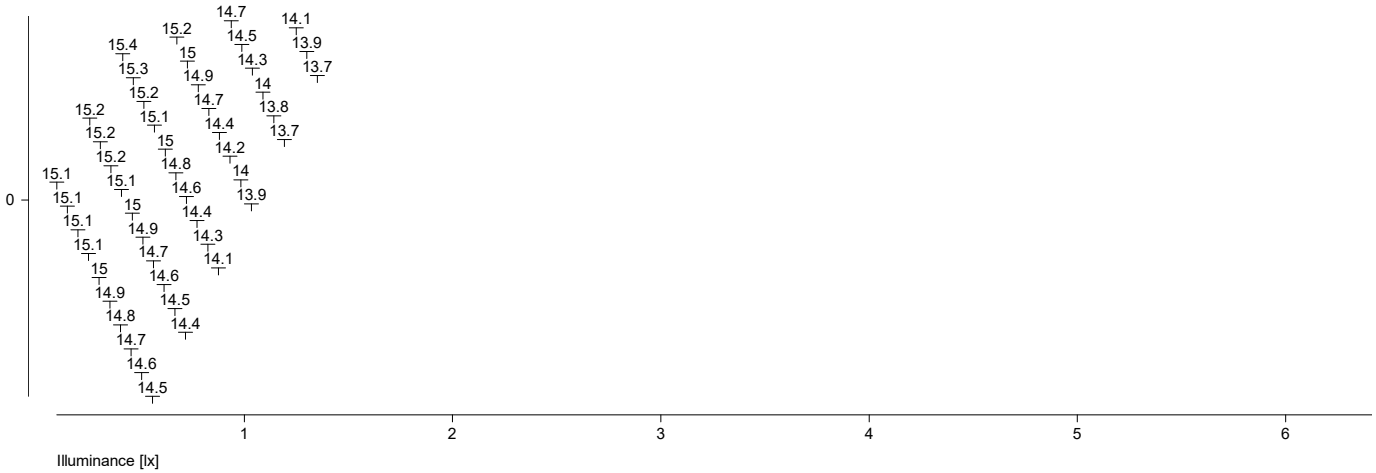
2.3.7 Table, M 8 (E)

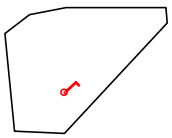


Part6

2.3 Calculation results, Exterior

2.3.7 Table, M 8 (E)



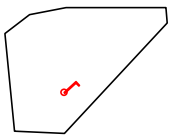


Part7

2.3 Calculation results, Exterior

2.3.7 Table, M 8 (E)

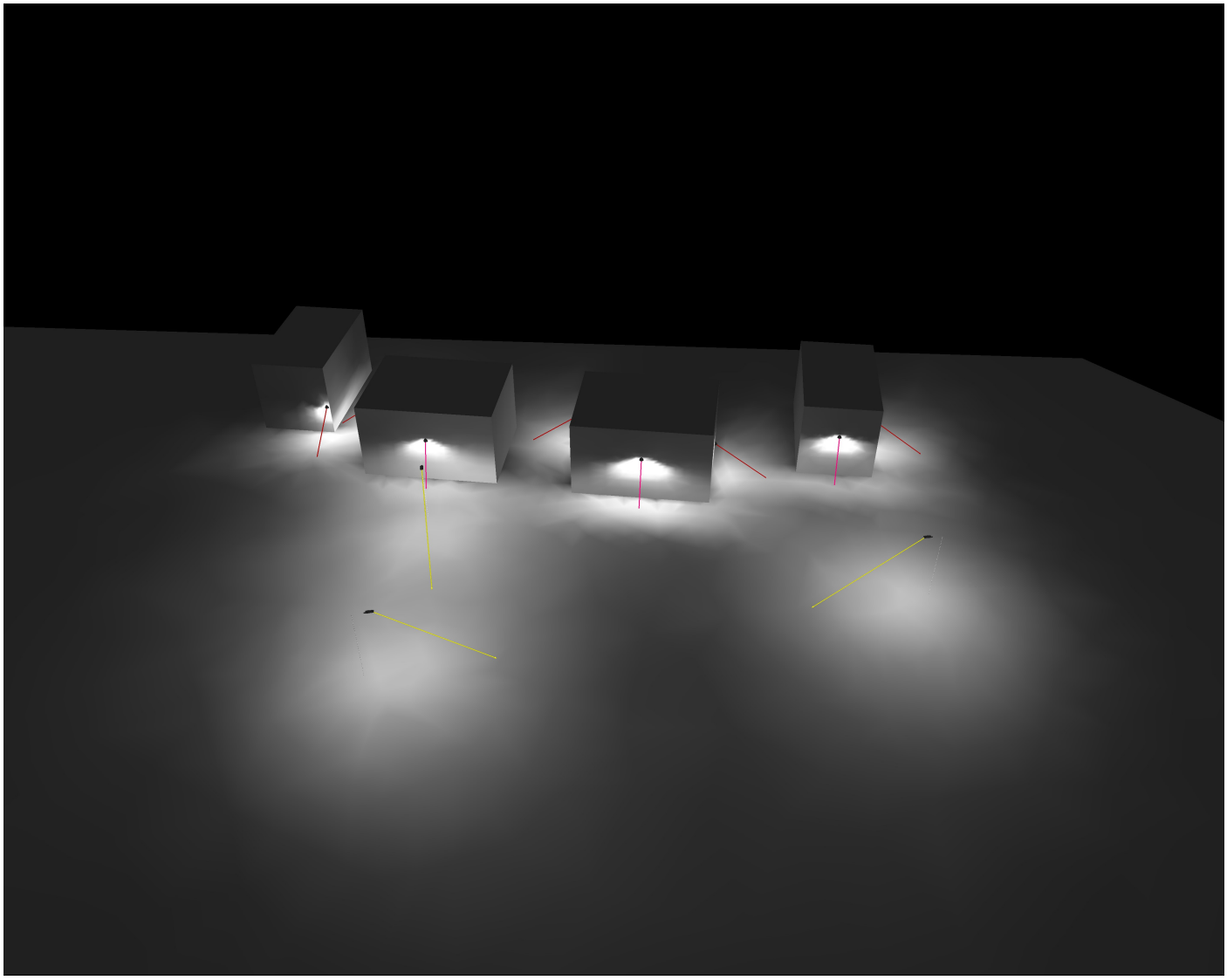




Part8

2.3 Calculation results, Exterior

2.3.8 3D luminance, View 1



Luminance in the scene
Minimum: : 0 cd/m²
Maximum: : 131 cd/m²

2.3 Calculation results, Exterior

2.3.9 3D pseudo colours, View 1 (E)

