

Installation :

Project number : Sussexdown
Customer : Parsons and Joyce
Processed by : Tom Allcroft
Date : 23.06.2026

Project description:

The details in this design is intended to be read as a guide only, final exact levels to be determined onsite as required

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

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

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1 Luminaire data

1.1 TamLite Lighting, CITY BL (CBL90WW)

1.1.1 Data sheet

Manufacturer: TamLite Lighting



CBL90WW Bollard CITY BL

CITY BL - BOLLARD - 9W - 3000K - Fixed output

Luminaire data

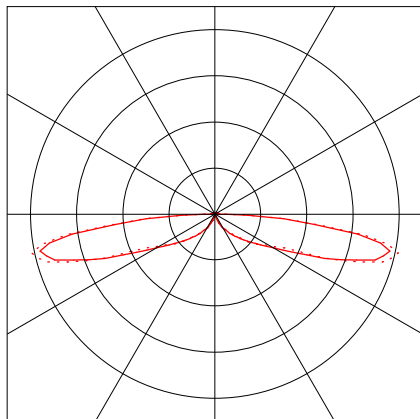
Absolute Photometry

Luminaire efficacy : 100 lm/W
Classification : A11 ↓97% ↑3%
CIE Flux Codes : 4 18 59 96 100
UGR 4H 8H : 29.0 / 28.9
Power : 9 W
Luminous flux : 900 lm

Equipped with

Quantity : 1
Designation : LED
Colour : 3000K
Colour reproduction : 80

Dimensions : Ø180 mm x 1000 mm
Height freestanding luminaire: 1000 mm



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1 Luminaire data

1.2 TamLite Lighting, CITY RL T4 (CTR4520WWG)

1.2.1 Data sheet

Manufacturer: TamLite Lighting



CTR4520WWG Road lanterns CITY RL T4

CITY RL T4 - Road lantern - Area optic - 40W - 3000K - Fixed output

Luminaire data

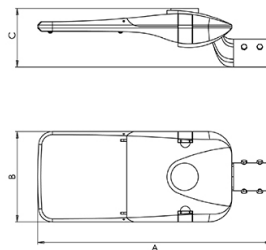
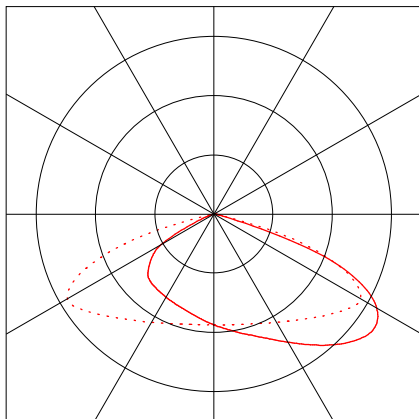
Absolute Photometry

Luminaire efficacy : 130 lm/W
Classification : A30 ↓100% ↑0%
CIE Flux Codes : 32 70 97 100 100
UGR 4H 8H : 34.7 / 34.2
Power : 40 W
Luminous flux : 5200 lm

Equipped with

Quantity : 1
Designation : LED
Colour : 3000K
Colour reproduction : 80

Dimensions : 230 mm x 595 mm x 140 mm
Height freestanding luminaire: 5000 mm



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2.1.1 Floor plan



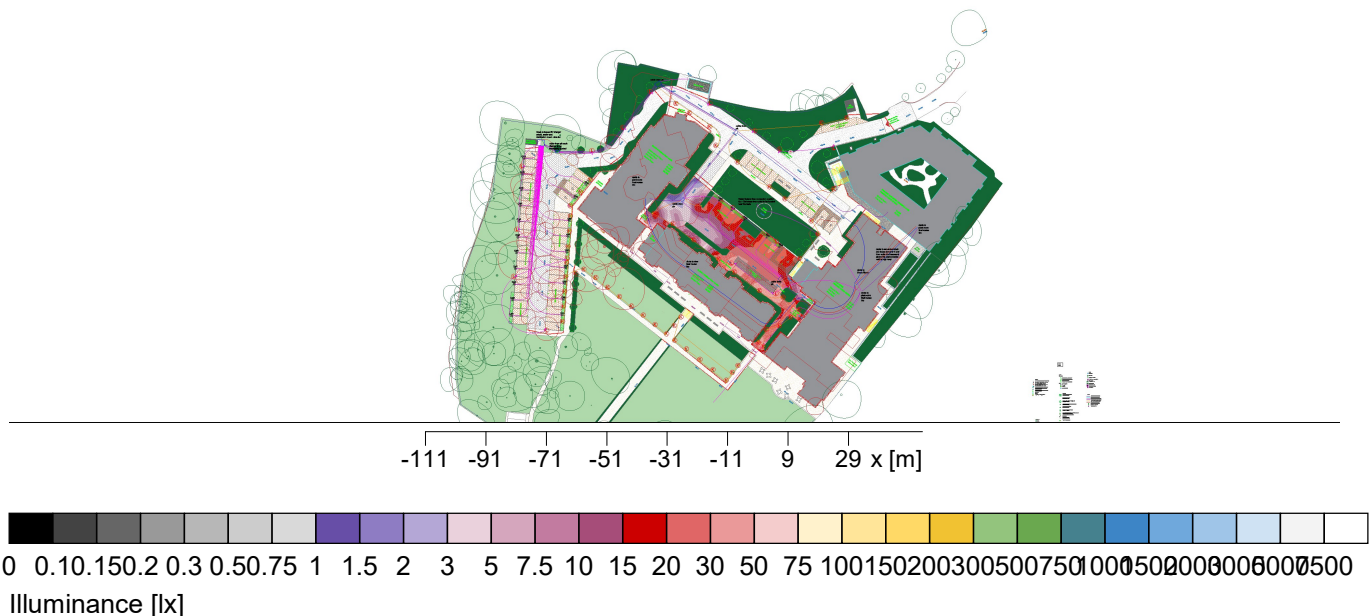
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2 Sussexdown external lighting

2.2 Summary, Sussexdown external lighting

2.2.1 Result overview, Middle carpark



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	126400.00 lm
Effective luminaire luminous flux (dimmed to 94.84%)	119875.00 lm
(Luminaires have been dimmed. For details see output page "Luminaire data/Room elements".)	
Total power	1072.0 W

Workplace

Middle carpark
 Lighting class: C4

$\bar{E}_m$	17.5 lx	✓ ≥ 10.0 lx
E_{min}	0.97 lx	
E_{max}	43 lx	
$E_{min}/\bar{E}_m (U_o)$	0.06	✗ ≥ 0.40
$E_{min}/E_{max} (U_d)$	0.02	
Position	0.00 m	

Type No. \Make

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2 Sussexdown external lighting

2.2 Summary, Sussexdown external lighting

2.2.1 Result overview, Middle carpark

Tamlite Lighting

1 48 x



Order No. : CBL90WW
Luminaire name : CITY BL
Equipment : 1 x LED 9 W / 900 lm

2 16 x



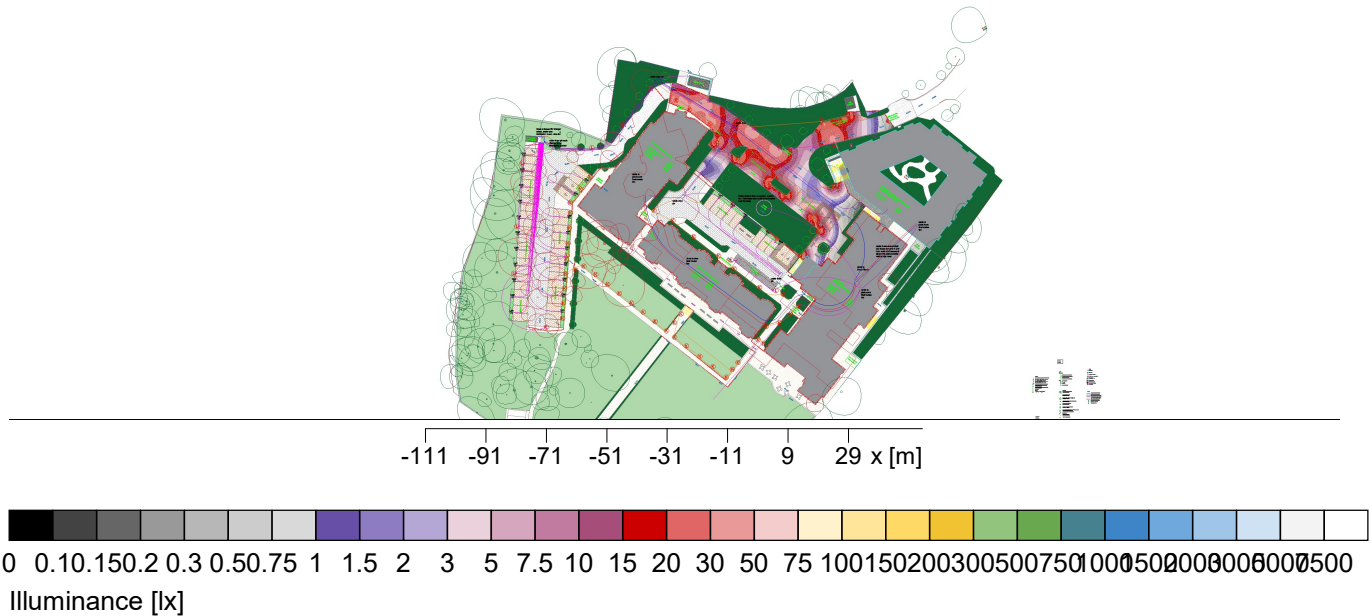
Order No. : CTRT4520WWG
Luminaire name : CITY RL T4
Equipment : 1 x LED 40 W / 5200 lm

Object :
Installation :
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2.2 Summary, Sussexdown external lighting

2.2.2 Result overview, Top carpark



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	126400.00 lm
Effective luminaire luminous flux (dimmed to 94.84%)	119875.00 lm
(Luminaires have been dimmed. For details see output page "Luminaire data/Room elements".)	
Total power	1072.0 W

Workplace

Top carpark

Lighting class: C4

$\bar{E}_m$	11.5 lx	✓ ≥ 10.0 lx
E_{min}	0.09 lx	
E_{max}	40 lx	
$E_{min}/\bar{E}_m (U_o)$	0.01	✗ ≥ 0.40
$E_{min}/E_{max} (U_d)$	0.00	
Position	0.00 m	

Task area

Type No. \Make

Object :
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2.2 Summary, Sussexdown external lighting

2.2.2 Result overview, Top carpark

Tamlite Lighting

1 48 x



Order No. : CBL90WW
Luminaire name : CITY BL
Equipment : 1 x LED 9 W / 900 lm

2 16 x



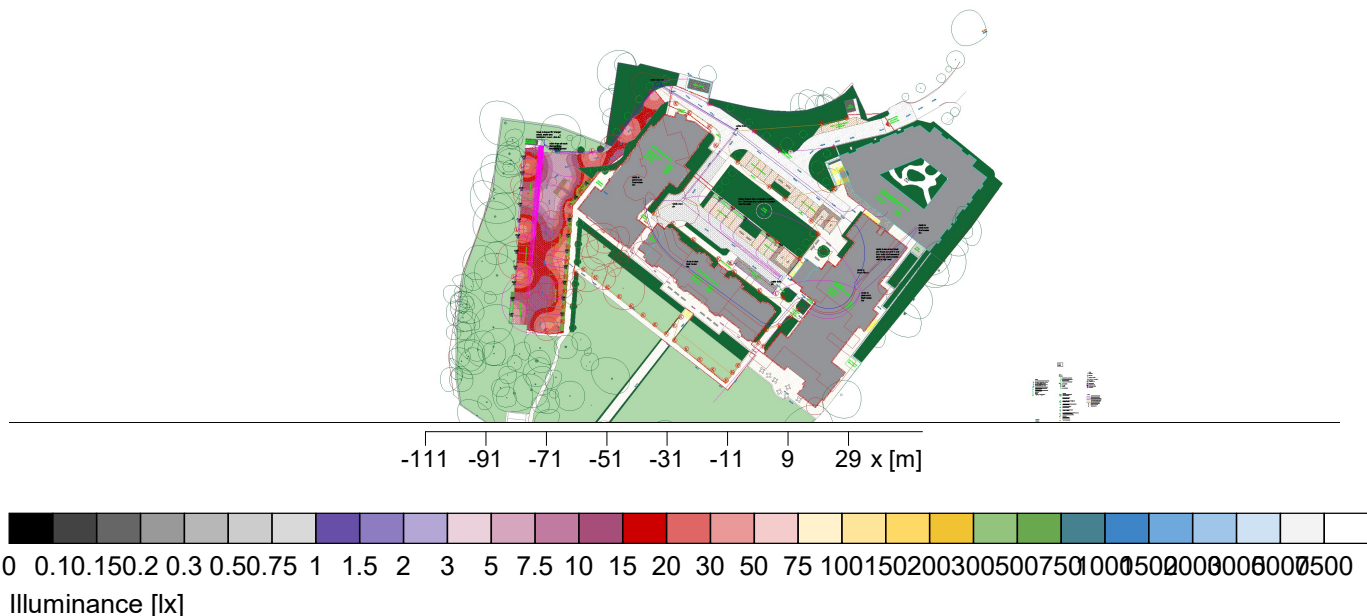
Order No. : CTRT4520WWG
Luminaire name : CITY RL T4
Equipment : 1 x LED 40 W / 5200 lm

Object :
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2.2 Summary, Sussexdown external lighting

2.2.3 Result overview, Bottom carpark



General

Calculation algorithm used
Maintenance factor
Average indirect fraction
0.80
Luminaire luminous flux
126400.00 lm
Effective luminaire luminous flux (dimmed to 94.84%)
119875.00 lm
(Luminaires have been dimmed. For details see output page "Luminaire data/Room elements".)
Total power
1072.0 W

Workplace

Bottom carpark

Lighting class: C4

$\bar{E}_m$ 17.5 lx $\checkmark \geq 10.0$ lx
 E_{min} 2.83 lx
 E_{max} 59 lx
 $E_{min}/\bar{E}_m (U_o)$ 0.16 $\times \geq 0.40$
 $E_{min}/E_{max} (U_d)$ 0.05
Position 0.00 m

Task area

Type No. Make

Object :
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2.2 Summary, Sussexdown external lighting

2.2.3 Result overview, Bottom carpark

Tamlite Lighting

1 48 x



Order No. : CBL90WW
Luminaire name : CITY BL
Equipment : 1 x LED 9 W / 900 lm

2 16 x



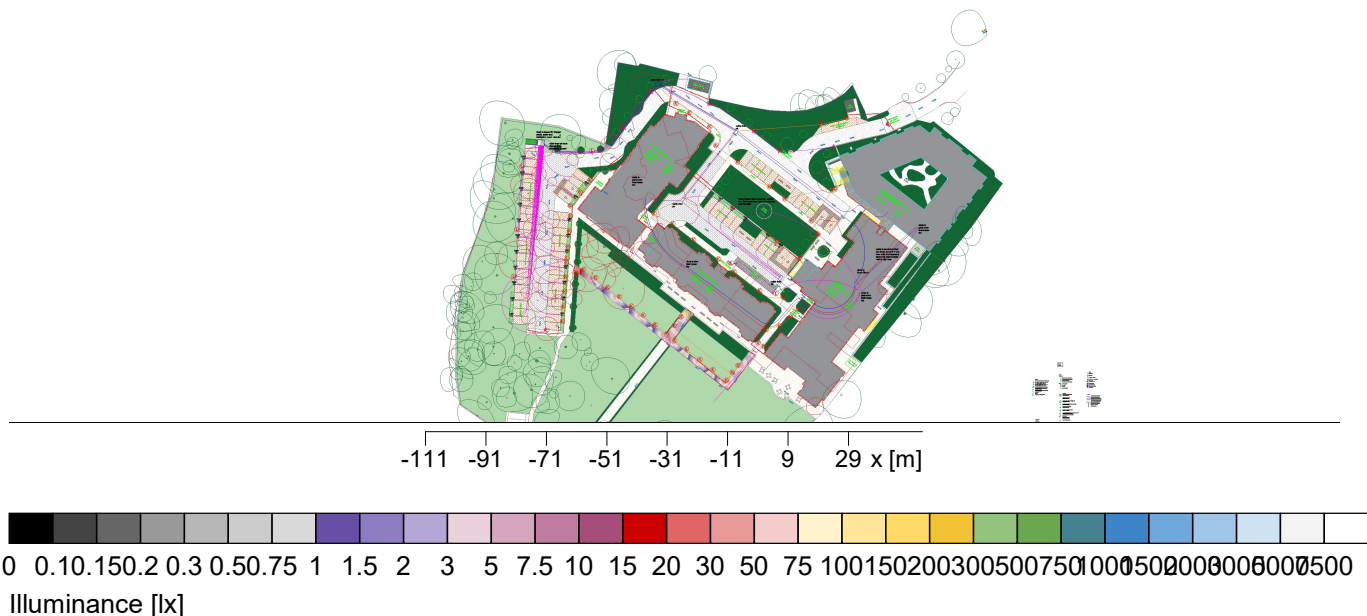
Order No. : CTRT4520WWG
Luminaire name : CITY RL T4
Equipment : 1 x LED 40 W / 5200 lm

Object :
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2.2 Summary, Sussexdown external lighting

2.2.4 Result overview, Garden walk way



General

Calculation algorithm used
Maintenance factor
Average indirect fraction
0.80
Luminaire luminous flux
Effective luminaire luminous flux (dimmed to 94.84%)
(Luminaires have been dimmed. For details see output page "Luminaire data/Room elements".)
Total power
1072.0 W

Workplace

Garden walk way
Lighting class: C4

Task area

$\bar{E}_m$ 3.01 lx $\times \geq 10.0$ lx
 E_{min} 0.18 lx
 E_{max} 34 lx
 $E_{min}/\bar{E}_m (U_o)$ 0.06 $\times \geq 0.40$
 $E_{min}/E_{max} (U_d)$ 0.01
Position 0.00 m

Type No. Make

Object :
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2.2 Summary, Sussexdown external lighting

2.2.4 Result overview, Garden walk way

Tamlite Lighting

1 48 x



Order No. : CBL90WW
Luminaire name : CITY BL
Equipment : 1 x LED 9 W / 900 lm

2 16 x



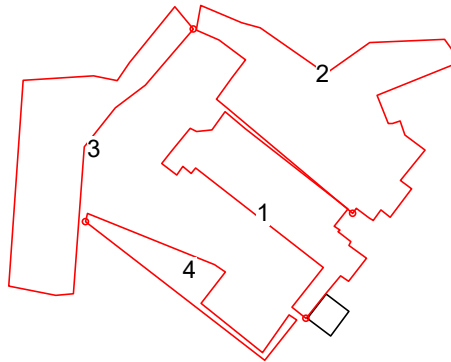
Order No. : CTRT4520WWG
Luminaire name : CITY RL T4
Equipment : 1 x LED 40 W / 5200 lm

Object :
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2.2 Summary, Sussexdown external lighting

2.2.5 Exterior summary, Sussexdown external lighting



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

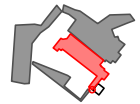
Measuring areas

1 Middle carpark

	Illuminance	
	$\bar{E}_m$	E_{min}
	17.5 lx	✓ 0.97 lx
C4	≥ 10.0 lx	

Calculation field: 31.76m x 62.41m (10 x 18 pts), Height = 0.00m

U_o	U_d
0.06 ✗	0.02
≥ 0.40	

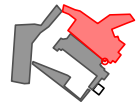


2 Top carpark

	Illuminance	
	$\bar{E}_m$	E_{min}
	11.5 lx	✓ 0.09 lx
C4	≥ 10.0 lx	

Calculation field: 55.52m x 78.95m (55 x 78 pts), Height = 0.00m

U_o	U_d
0.01 ✗	0.00
≥ 0.40	

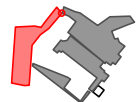


3 Bottom carpark

	Illuminance	
	$\bar{E}_m$	E_{min}
	17.5 lx	✓ 2.83 lx
C4	≥ 10.0 lx	

Calculation field: 55.72m x 87.04m (57 x 89 pts), Height = 0.00m

U_o	U_d
0.16 ✗	0.05
≥ 0.40	

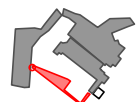


4 Garden walk way

	Illuminance	
	$\bar{E}_m$	E_{min}
	3.01 lx	✗ 0.18 lx
C4	≥ 10.0 lx	

Calculation field: 65.59m x 14.69m (147 x 33 pts), Height = 0.00m

U_o	U_d
0.06 ✗	0.01
≥ 0.40	



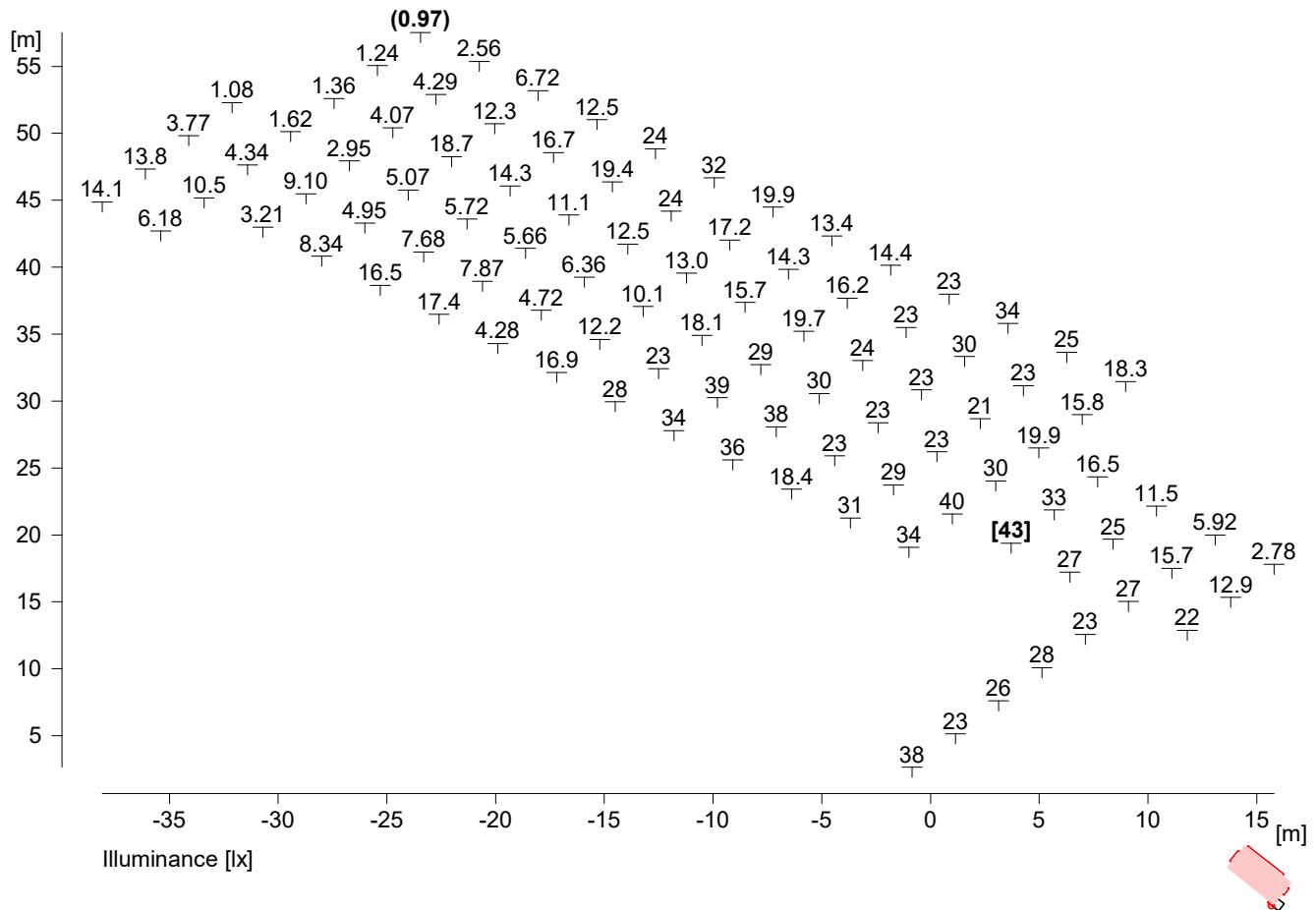
Object :
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2 Sussexdown external lighting

2.3 Calculation results, Sussexdown external lighting

2.3.1 Table, Middle carpark (E)



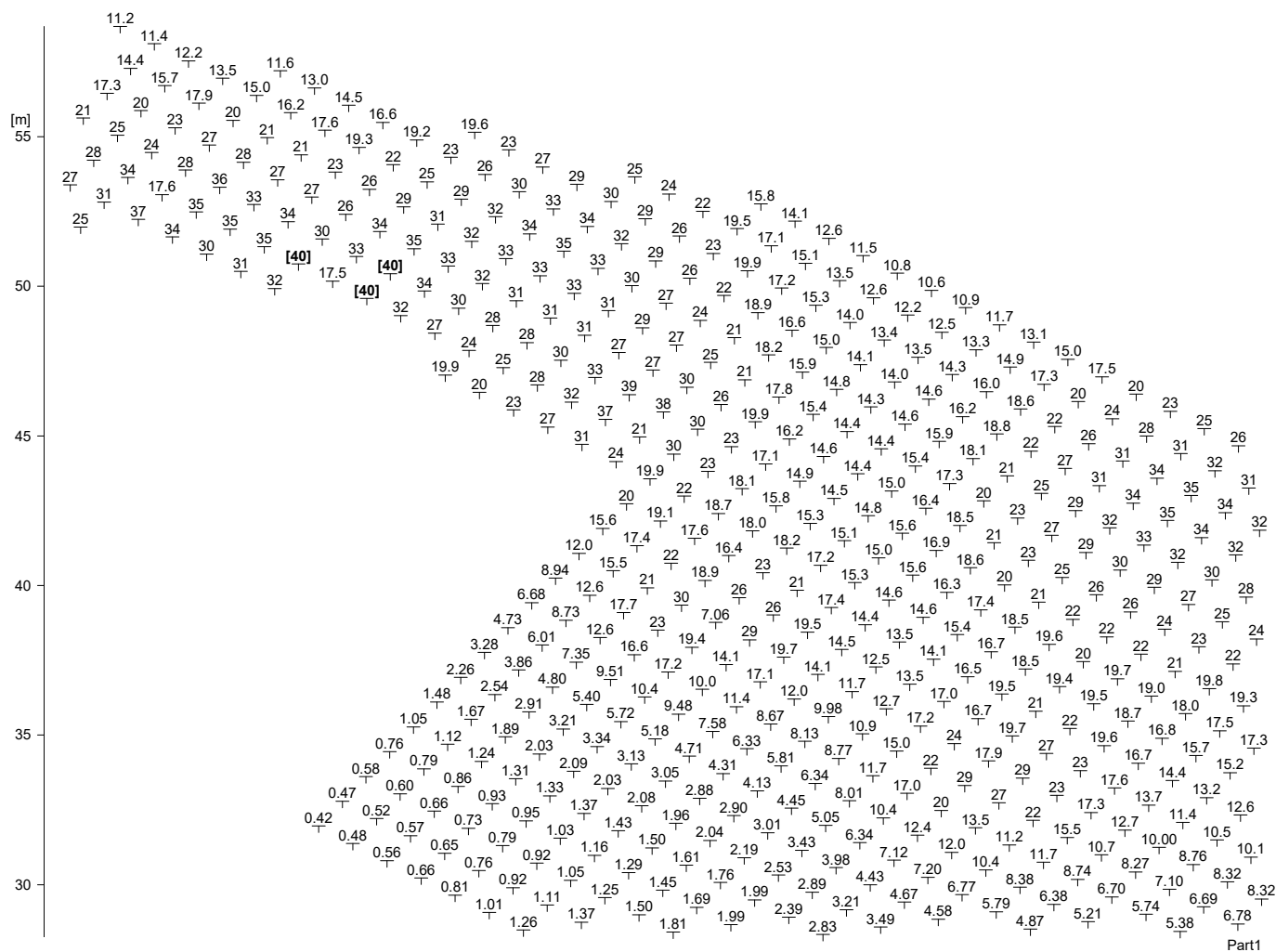
Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 17.5 lx
Minimum illuminance	E_{min}	: 0.97 lx
Maximum illuminance	E_{max}	: 43 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 18.18 (0.06)

Object :
Installation :
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2.3 Calculation results, Sussexdown external lighting

2.3.2 Table, Top carpark (E)



Height reference plane	: 0.00 m
Average illuminance	$\bar{E}_m$: 11.5 lx
Minimum illuminance	E_{min} : 0.09 lx
Maximum illuminance	E_{max} : 40 lx
Uniformity U_o	$E_{min}/\bar{E}_m$: 1 : 125.22 (0.01)



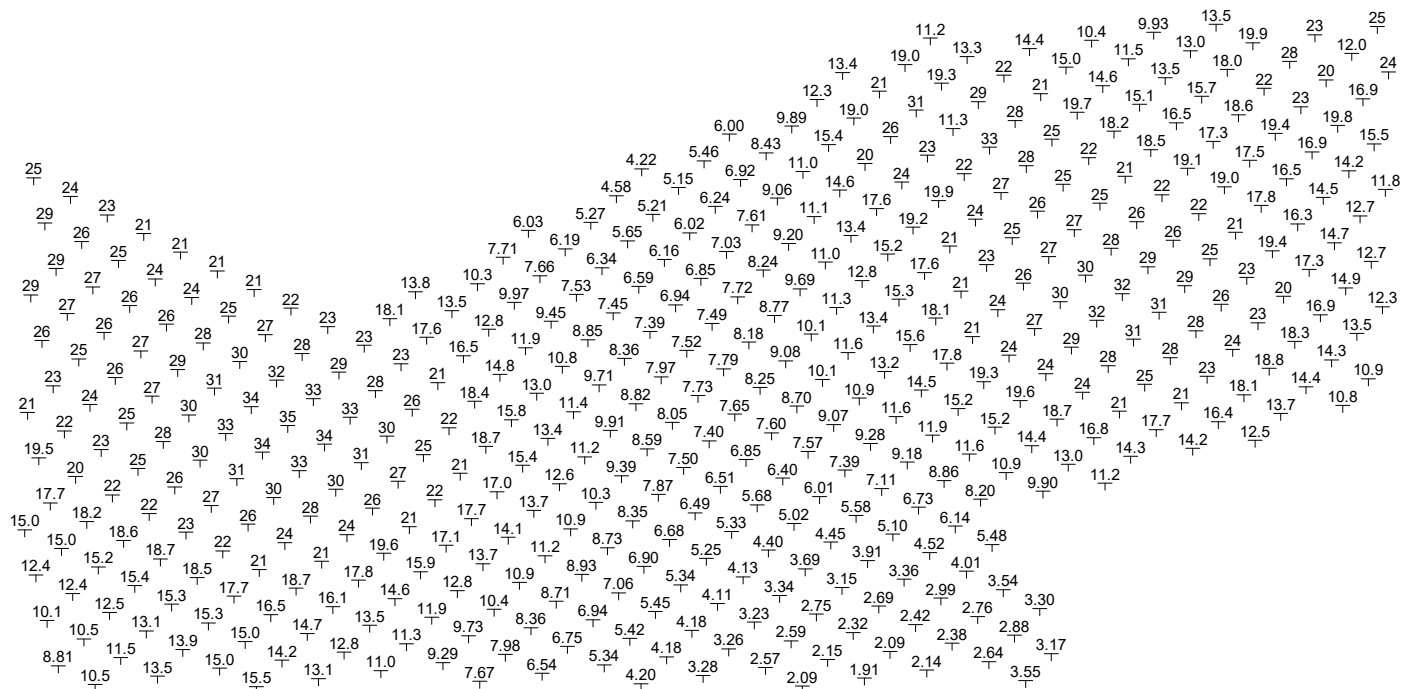
-please put your own address here-

Object :
Installation :
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2.3 Calculation results, Sussexdown external lighting

2.3.2 Table, Top carpark (E)



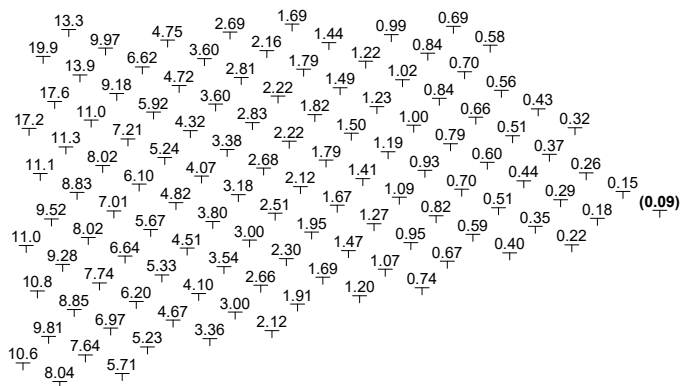
Part2



-please put your own address here-

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2.3.2 Table, Top carpark (E)



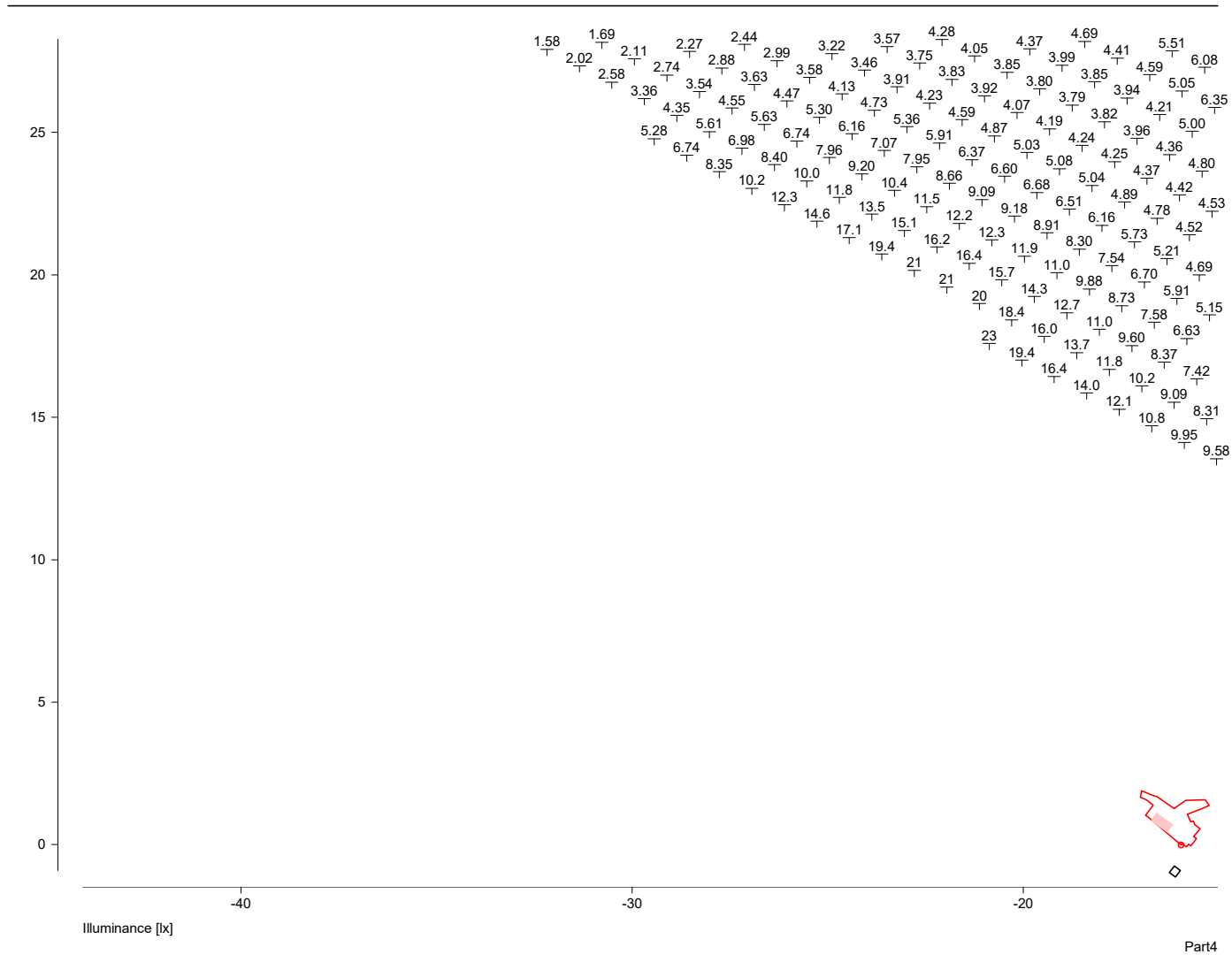
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Object :
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2.3 Calculation results, Sussexdown external lighting

2.3.2 Table, Top carpark (E)

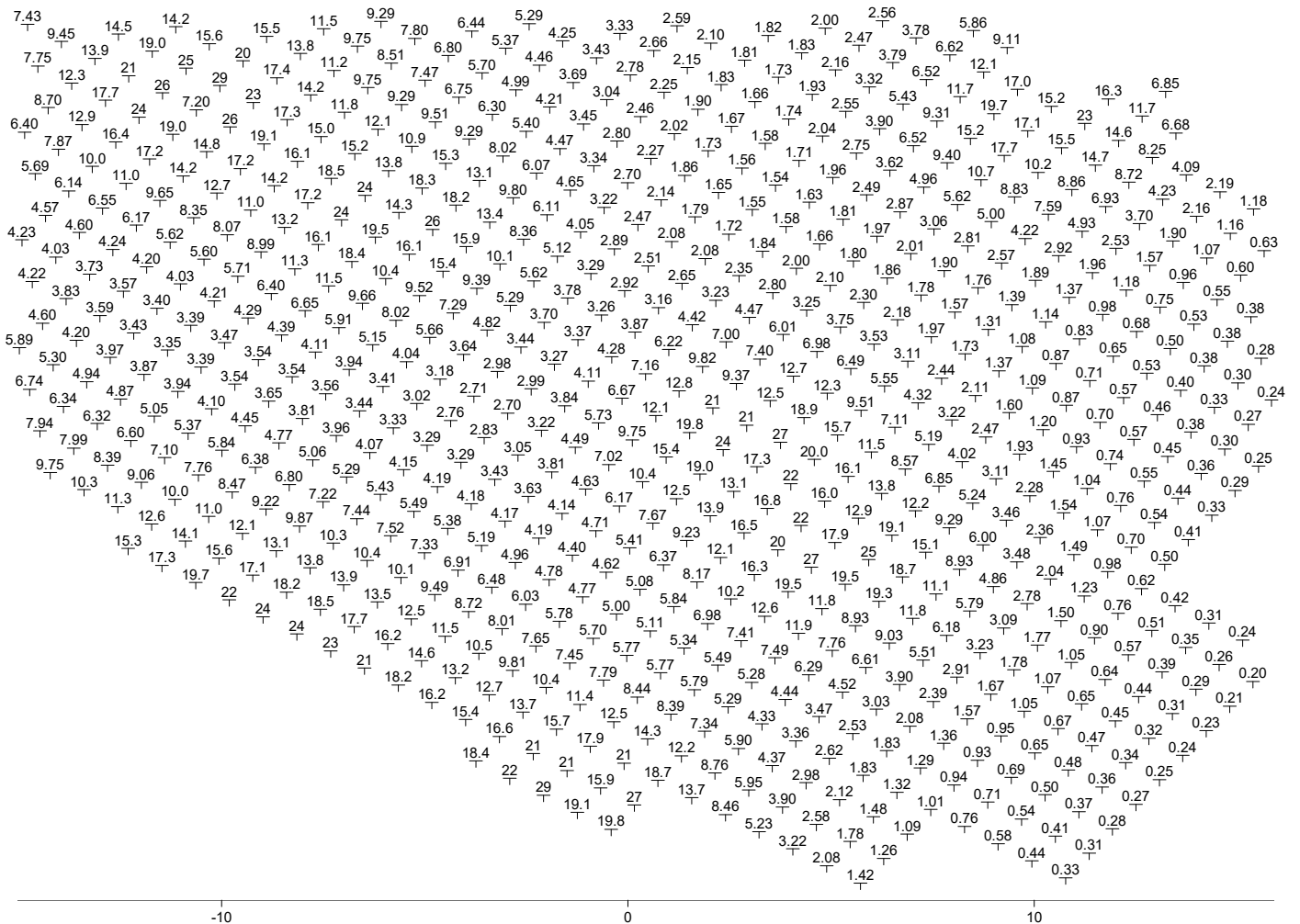


Object :
Installation :
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2.3 Calculation results, Sussexdown external lighting

2.3.2 Table, Top carpark (E)



Part5



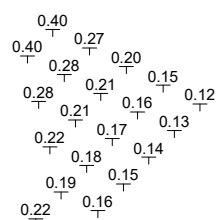
-please put your own address here-

Object :
Installation :
Project number : Sussexdown
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2.3 Calculation results, Sussexdown external lighting

2.3.2 Table, Top carpark (E)



0.18



20 30 [m]

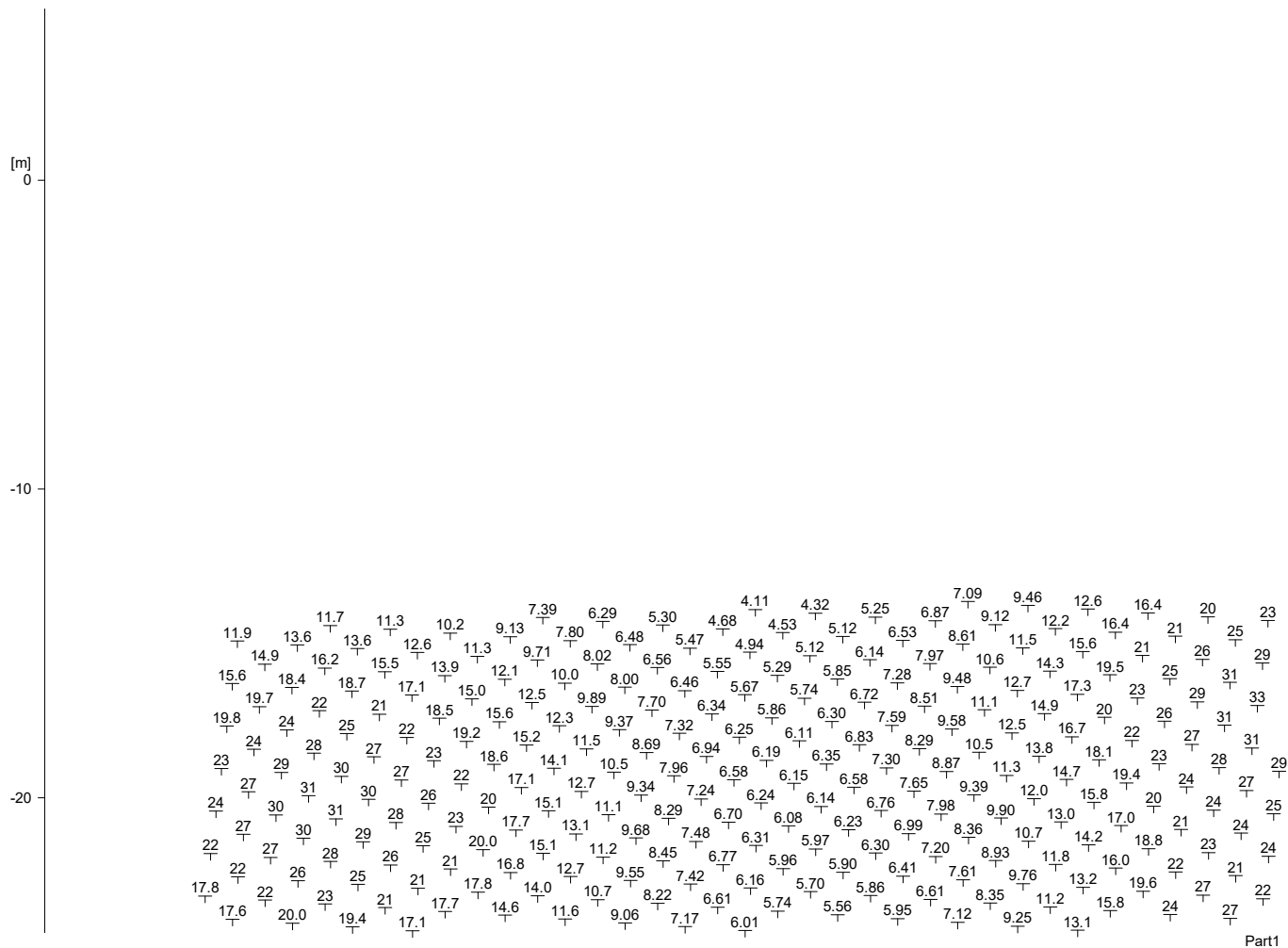
Part6

Object :
 Installation :
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2.3 Calculation results, Sussexdown external lighting

2.3.3 Table, Bottom carpark (E)



Height reference plane	:	0.00 m
Average illuminance	$\bar{E}_m$	: 17.5 lx
Minimum illuminance	E_{min}	: 2.83 lx
Maximum illuminance	E_{max}	: 59 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 6.18 (0.16)



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2.3.3 Table, Bottom carpark (E)



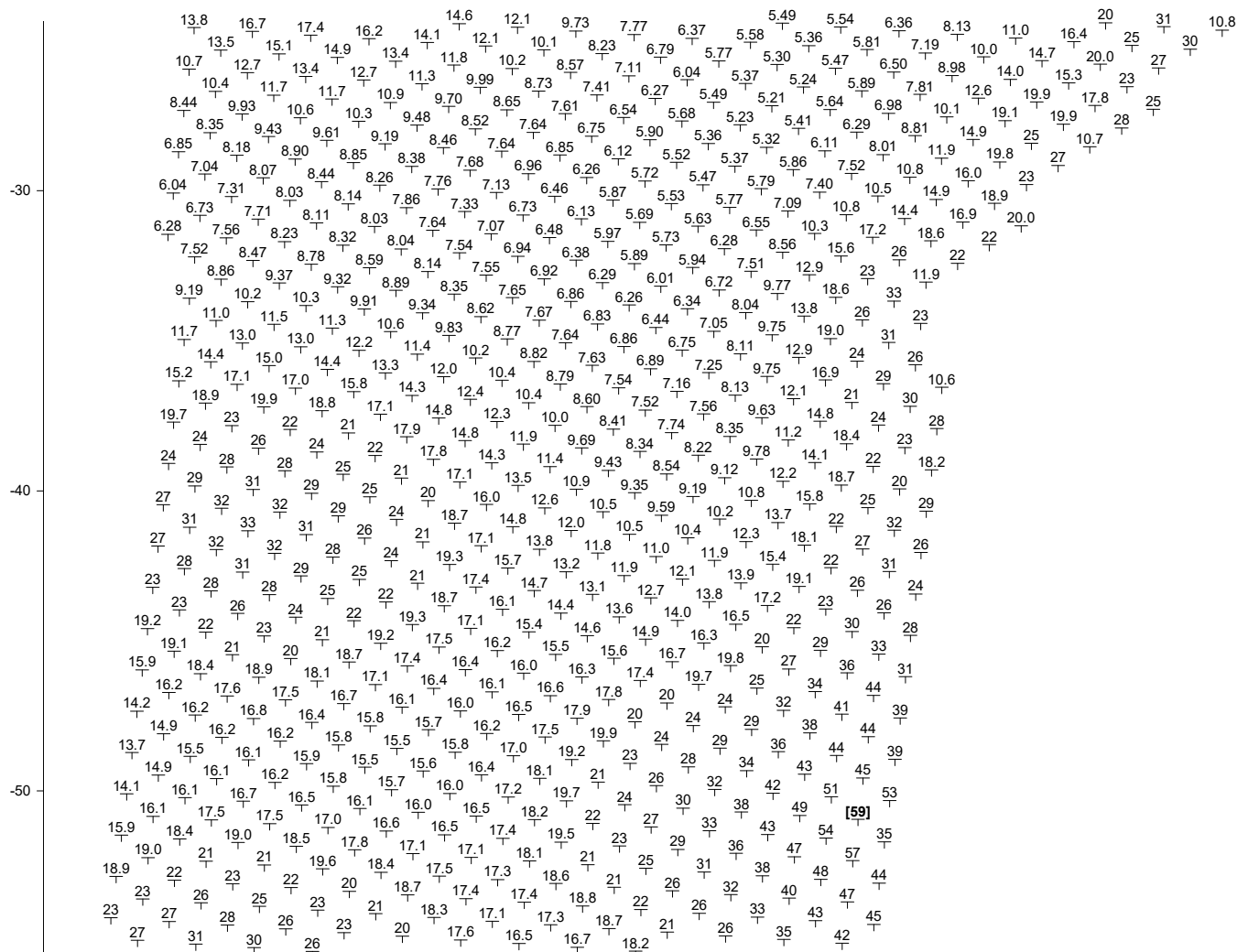
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Object :
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2.3 Calculation results, Sussexdown external lighting

2.3.3 Table, Bottom carpark (E)



Part3



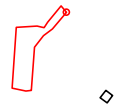
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Object :
Installation :
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2.3 Calculation results, Sussexdown external lighting

2.3.3 Table, Bottom carpark (E)



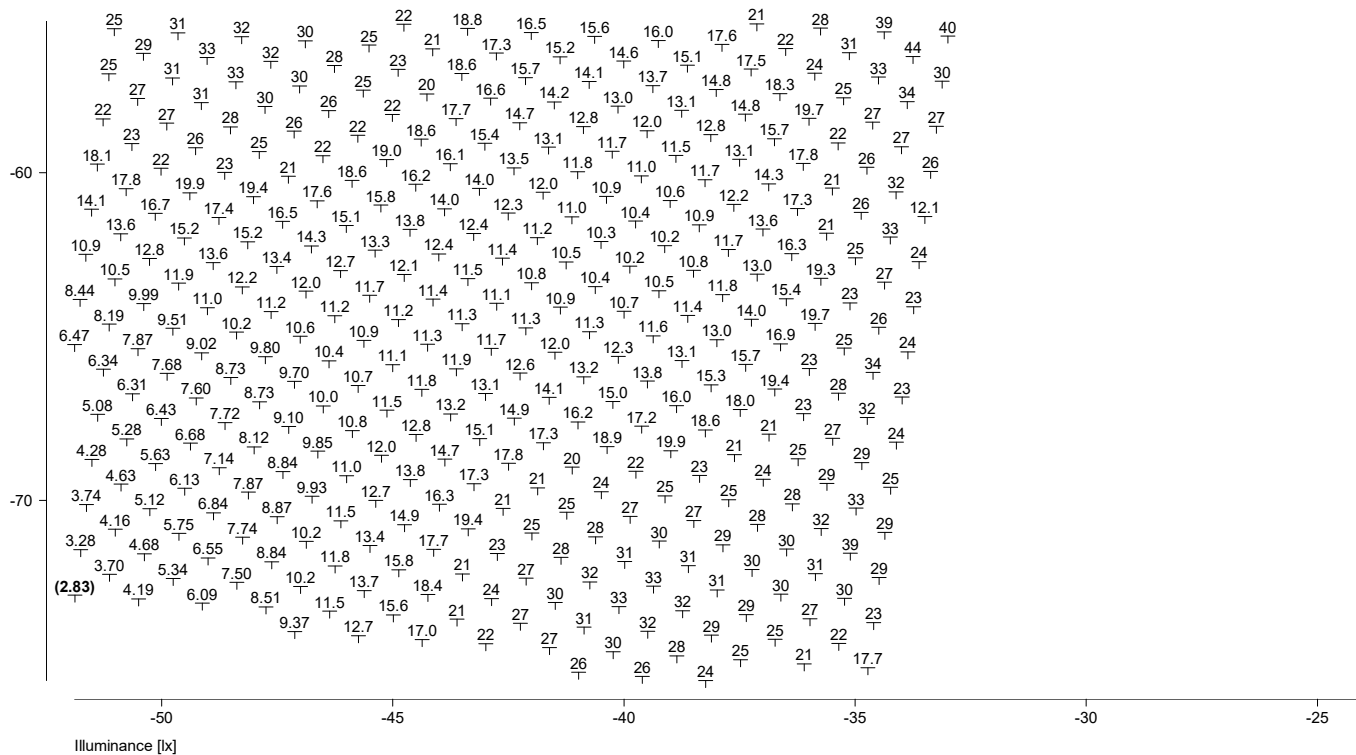
Part4

Object :
Installation :
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2.3 Calculation results, Sussexdown external lighting

2.3.3 Table, Bottom carpark (E)



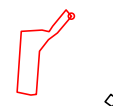
Object :
Installation :
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2.3 Calculation results, Sussexdown external lighting

2.3.3 Table, Bottom carpark (E)

-20 -15 -10 -5 [m]



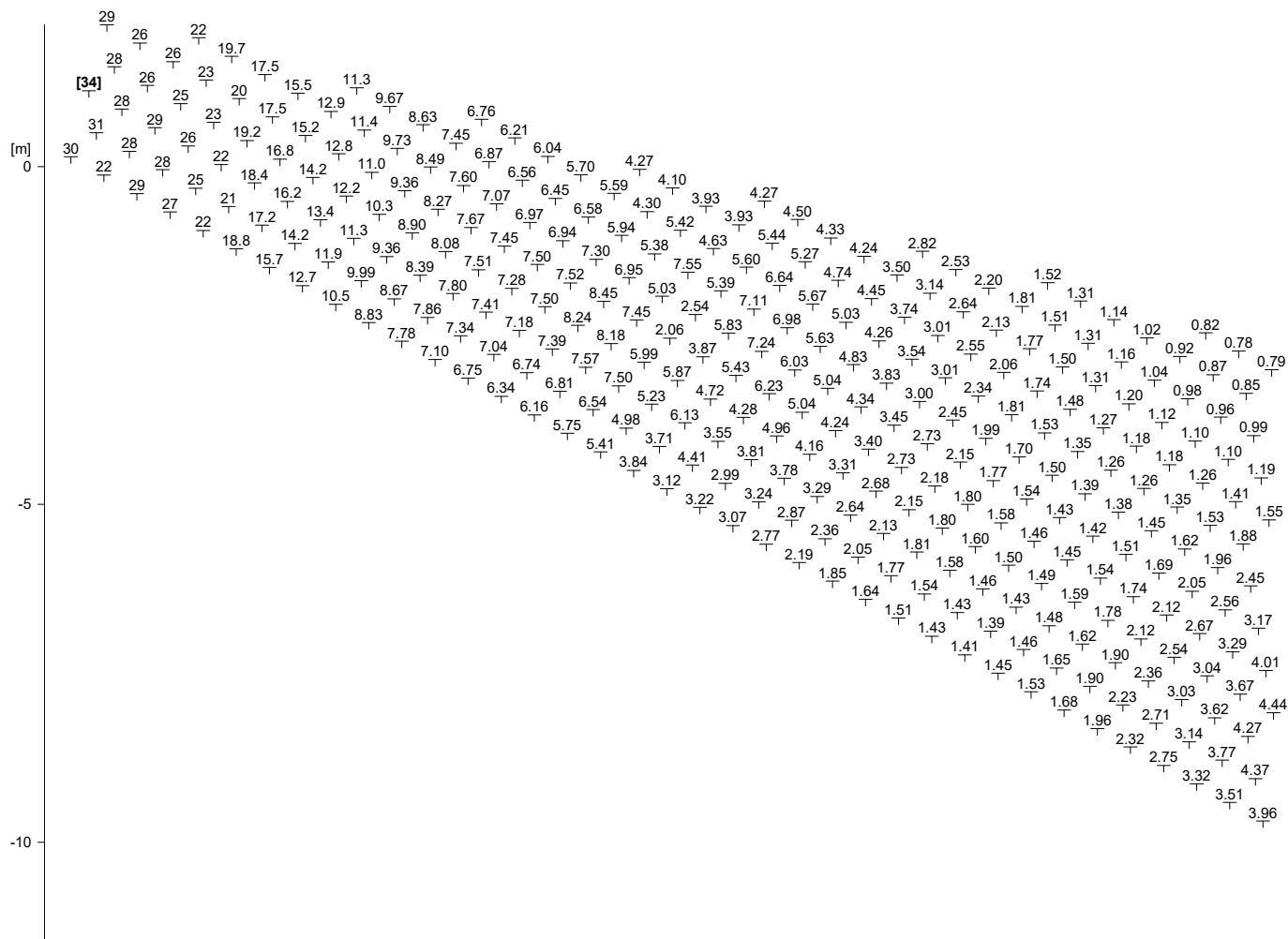
Part6

Object :
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2.3 Calculation results, Sussexdown external lighting

2.3.4 Table, Garden walk way (E)



Height reference plane	:	0.00 m
Average illuminance	$\bar{E}_m$	: 3.01 lx
Minimum illuminance	E_{min}	: 0.18 lx
Maximum illuminance	E_{max}	: 34 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 16.51 (0.06)



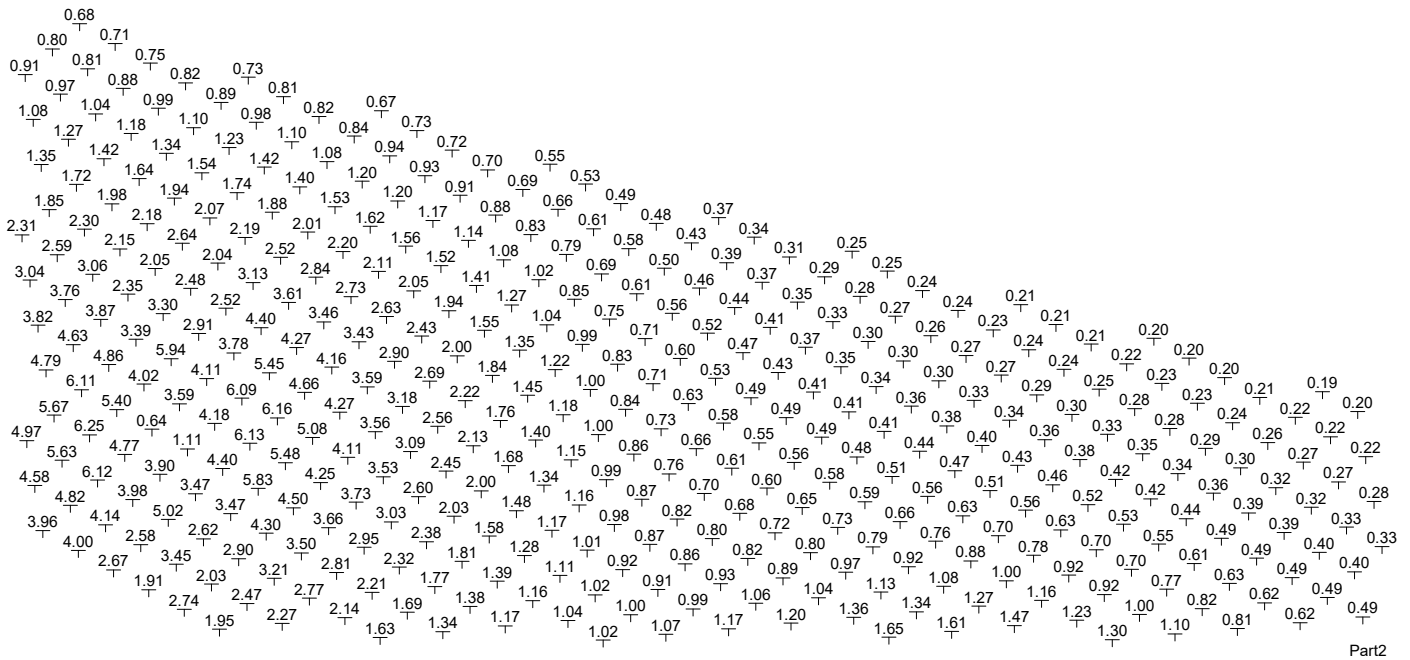
-please put your own address here-

Object :
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Project number : Sussexdown
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2.3 Calculation results, Sussexdown external lighting

2.3.4 Table, Garden walk way (E)



Part2



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Object :
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Date : 23.06.2026



2.3 Calculation results, Sussexdown external lighting

2.3.4 Table, Garden walk way (E)



Part4

Object :
Installation :
Project number : Sussexdown
Date : 23.06.2026



2.3 Calculation results, Sussexdown external lighting

2.3.4 Table, Garden walk way (E)



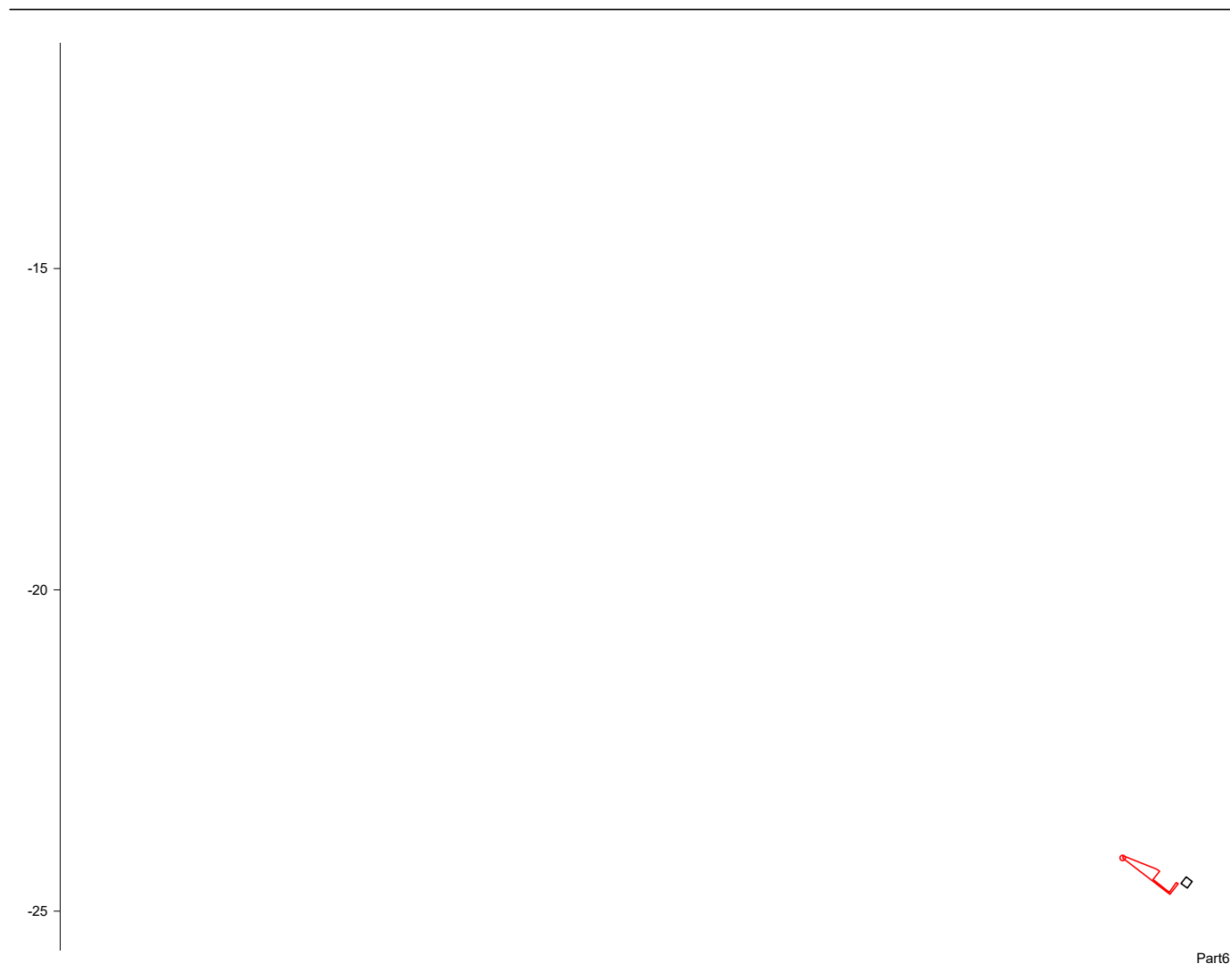
Part5

Object :
Installation :
Project number : Sussexdown
Date : 23.06.2026



2.3 Calculation results, Sussexdown external lighting

2.3.4 Table, Garden walk way (E)

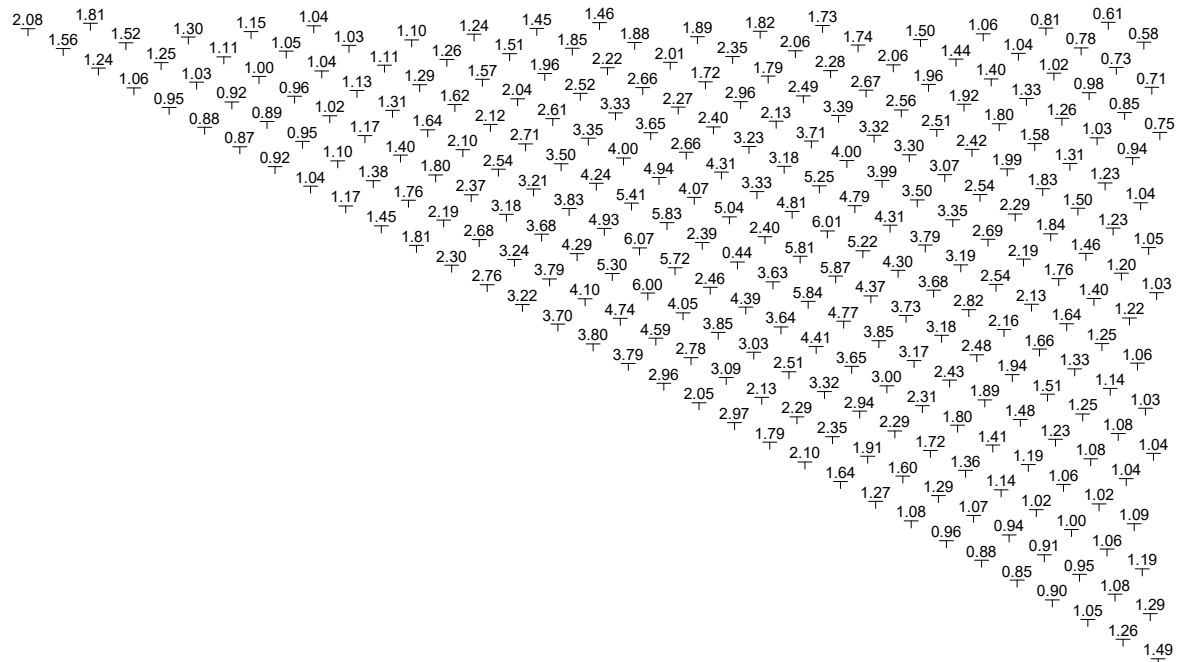


Object :
Installation :
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2.3 Calculation results, Sussexdown external lighting

2.3.4 Table, Garden walk way (E)



Part7

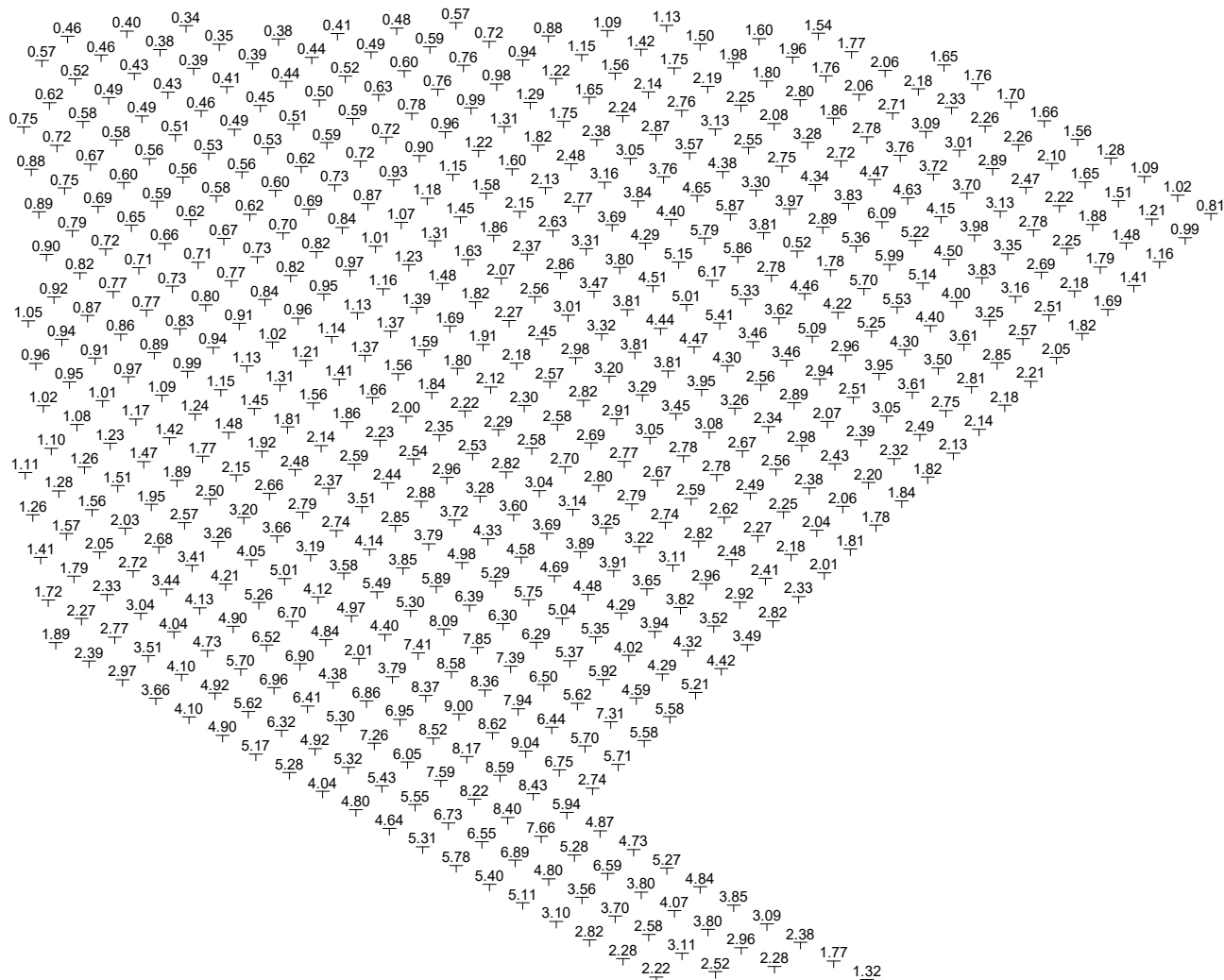
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Object :
Installation :
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2.3 Calculation results, Sussexdown external lighting

2.3.4 Table, Garden walk way (E)



Part8



-please put your own address here-

Object :
Installation :
Project number : Sussexdown
Date : 23.06.2026



2.3 Calculation results, Sussexdown external lighting

2.3.4 Table, Garden walk way (E)



Part9

Object :
Installation :
Project number : Sussexdown
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2.3 Calculation results, Sussexdown external lighting

2.3.4 Table, Garden walk way (E)



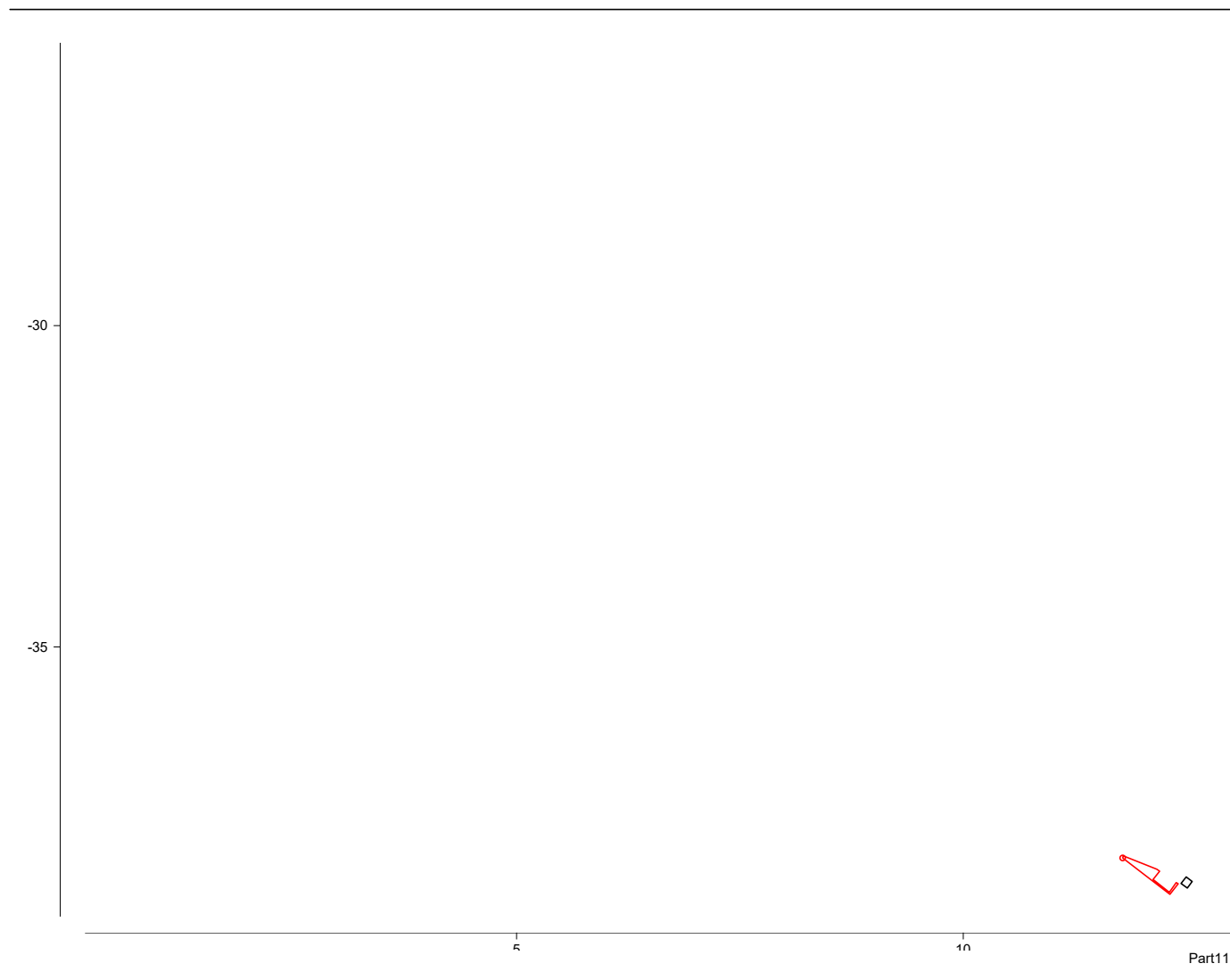
Part10

Object :
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2.3 Calculation results, Sussexdown external lighting

2.3.4 Table, Garden walk way (E)



Object :
Installation :
Project number : Sussexdown
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2.3 Calculation results, Sussexdown external lighting

2.3.4 Table, Garden walk way (E)



15

20

25

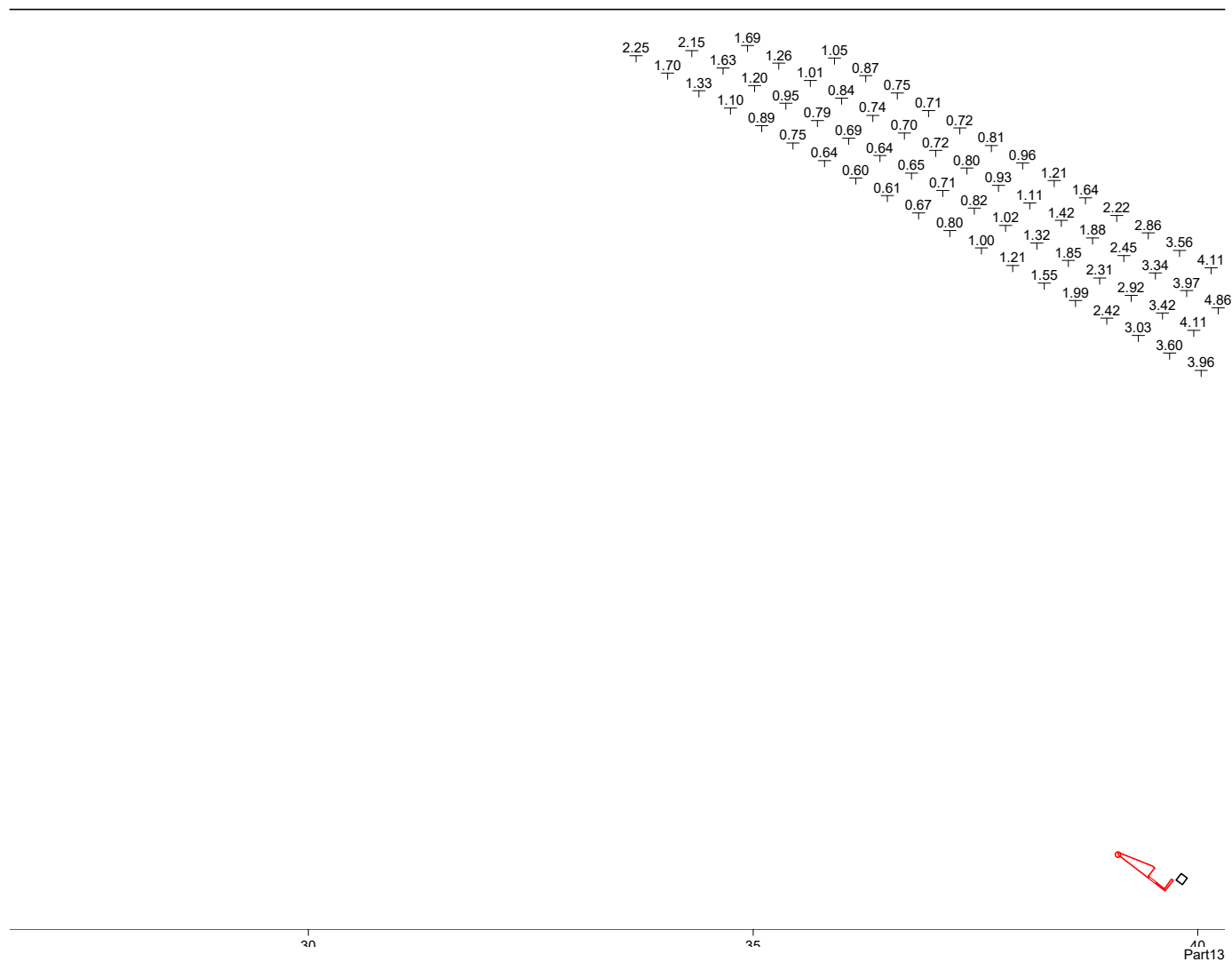
Part12

Object :
Installation :
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2.3 Calculation results, Sussexdown external lighting

2.3.4 Table, Garden walk way (E)



-please put your own address here-

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2.3.4 Table, Garden walk way (E)

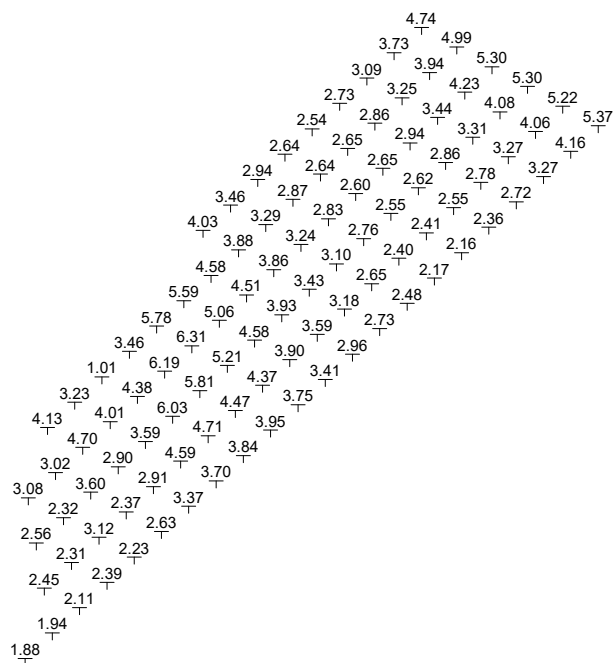


Object :
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2.3 Calculation results, Sussexdown external lighting

2.3.4 Table, Garden walk way (E)



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Part15

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