Campus West MSCP

Installation : Rev P06 Emergency output

Project number :
Customer :
Processed by :
Date : 12.11.2021

Lighting Design Service:

The Wirefield lighting design service is free of charge. Lighting designs are undertaken in accordance with any information supplied to us. Wirefield will not be held responsible for inaccurate, incomplete or out of date information which the design is based on.

It remains the responsiblity of the client to check the design meets the requirements of the project and any apllicable standards.

Where an emergency design has been requested it will be designed in accordance with BS5266-1,7_8. However this will be subject to a risk assessment by the relevant partyy, in addition to coverage of related points such as firefighting equipment and alarm call points. As a result, the design is limited until this infromation is provided.

In addition to the above, any assumptions will be outlined in any correspondance with the customer; if any assumptions are incorrect the lighting designer will need to be notified.

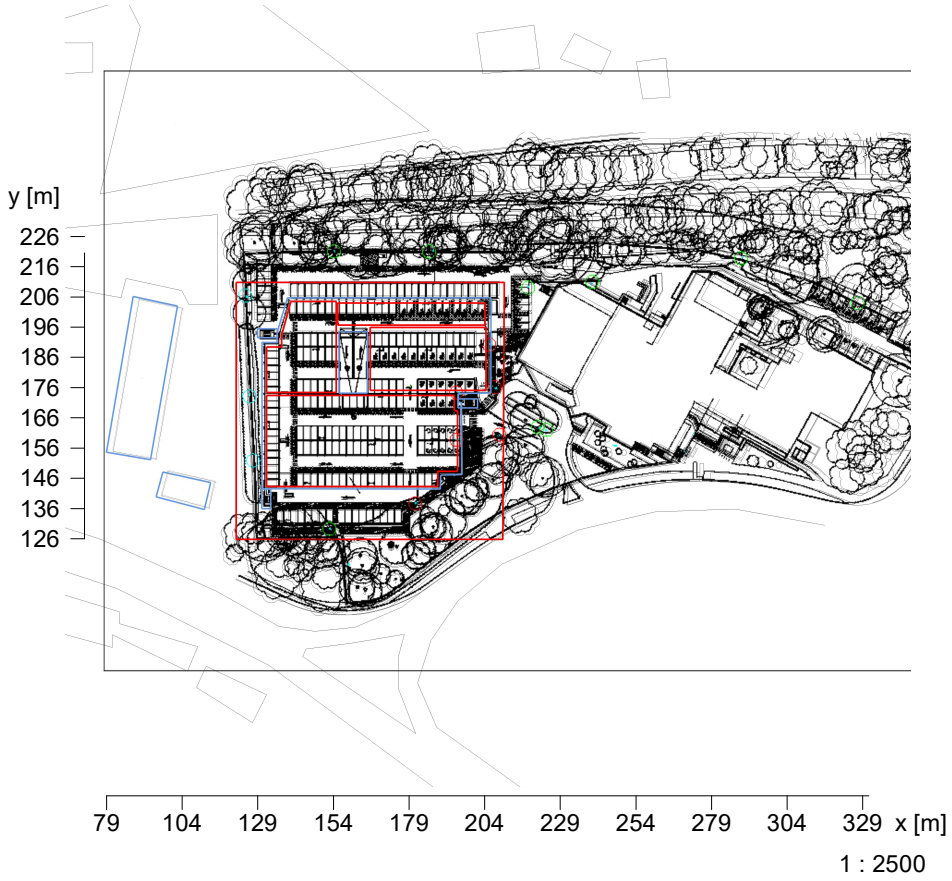
The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

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

1 Exterior 1

1.1 Description, Exterior 1

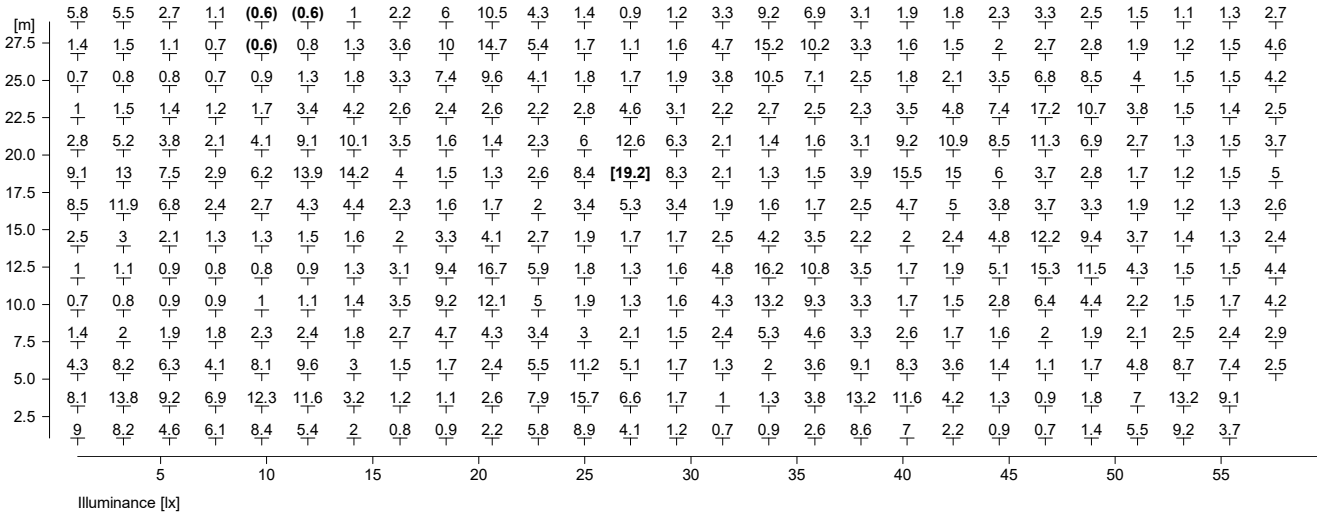
1.1.1 Floor plan



1 Exterior 1

1.2 Calculation results, Exterior 1

1.2.1 Table, Emergency area 11 (E)



Part1

Required minimum illuminance		: 0.5 lx
Minimum illuminance	Emin	: 0.6 lx (* 0.6 lx)
Maximum illuminance	Emax	: 19 lx (* 22 lx)
Diversity	Emin/Emax	: 1 : 30.40 (0.03) (Threshold value 1:40) (* 1:39.20)
Height		: 0.2 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

*: Values on fine measuing grid (0.1m - 0.5m)!

1 Exterior 1

1.2 Calculation results, Exterior 1

1.2.1 Table, Emergency area 11 (E)

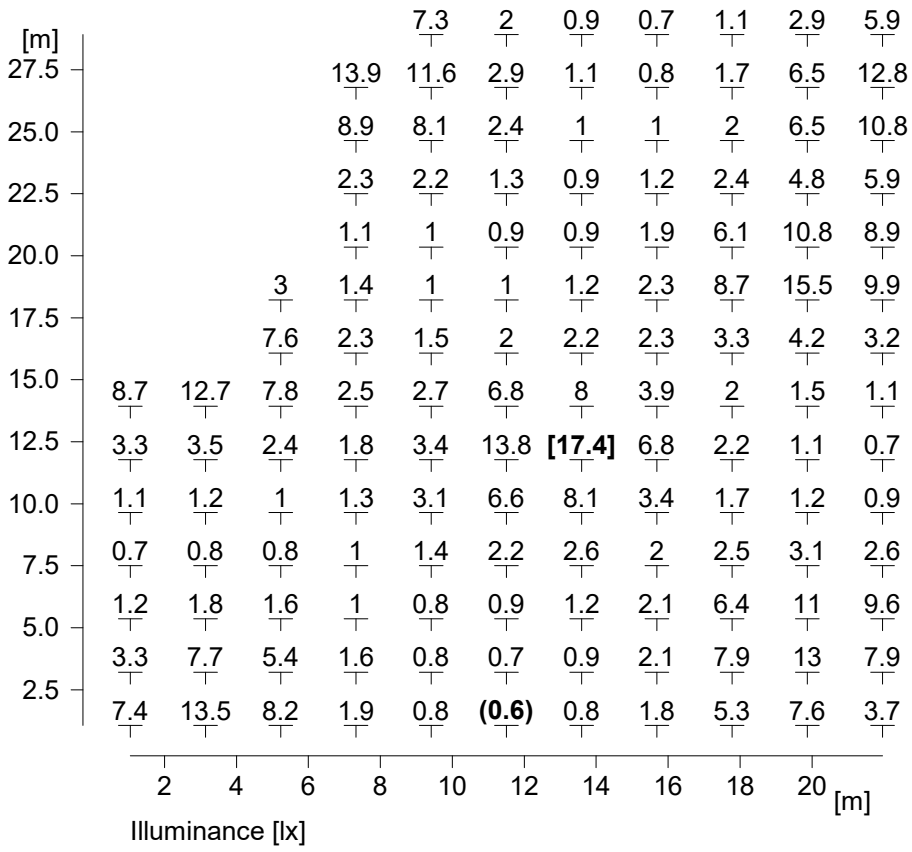
5.8 9.2
12.6 13.6
10.2 9
4.5 5.7
8.9 10.5
15 13.7
4.9 4.9
4.3 4.2
12.3 13.2
10.8 10
5 3.3
1.5 1.1

60 [m]

Part2

1.2 Calculation results, Exterior 1

1.2.2 Table, Emergency area 12 (E)



Required minimum illuminance		: 0.5 lx
Minimum illuminance	Emin	: 0.6 lx (* 0.5 lx)
Maximum illuminance	Emax	: 17 lx (* 20 lx)
Diversity	Emin/Emax	: 1 : 29.90 (0.03) (Threshold value 1:40) (* 1:37.20)
Height		: 0.2 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

*: Values on fine measuing grid (0.1m - 0.5m)!

1.2 Calculation results, Exterior 1

1.2.3 Table, Emergency area 13 (E)

[m]																										
6	5.5	4	2.6	1.7	1.2	0.8	0.7	(0.6)	(0.6)	0.7	0.9	1.3	1.9	2.9	4.2	5.7	6.8	6.6	5.3	3.8	2.5	1.7	1.2	1	0.9	0.9	1	1.3
	8.9	5.9	3.6	2.2	1.4	1	0.7	0.7	0.7	0.8	1.1	1.6	2.6	4.2	6.7	9.6	11.6	11.2	8.6	5.7	3.5	2.2	1.5	1.1	1	1	1.2	1.5
5	12.6	7.9	4.5	2.6	1.6	1	0.8	0.7	0.7	0.9	1.2	1.9	3.2	5.6	9.6	14.4	17.6	16.7	12.3	7.6	4.4	2.6	1.7	1.3	1.1	1.2	1.3	1.6
	14.9	9	5	2.8	1.7	1.1	0.8	0.7	0.7	0.9	1.3	2.1	3.6	6.6	11.5	17.7	21.8	20.5	14.7	8.8	4.9	2.9	1.9	1.4	1.3	1.3	1.4	1.8
4	13.5	8.4	4.8	2.7	1.6	1.1	0.8	0.7	0.7	0.9	1.3	2	3.4	6.1	10.4	15.8	19.3	18.2	13.3	8.1	4.7	2.9	2	1.6	1.4	1.5	1.6	1.9
3	9.2	6.1	3.8	2.3	1.5	1	0.8	0.7	0.7	0.9	1.2	1.8	2.8	4.7	7.6	10.8	12.5	11.7	9	6	3.8	2.6	2	1.7	1.7	1.7	1.8	2.1
2	5.9	4.2	2.8	1.9	1.3	0.9	0.7	0.7	0.7	0.8	1	1.5	2.3	3.5	5.1	6.7	7.5	7	5.6	4.1	3	2.4	2.1	2	2.1	2.2	2.3	2.4
1	3.8	2.9	2.1	1.5	1.1	0.8	0.7	(0.6)	(0.6)	0.7	0.9	1.2	1.7	2.4	3.2	3.9	4.3	4.1	3.6	3	2.5	2.3	2.4	2.6	2.9	3	3.1	3
	2.9	2.2	1.7	1.2	1	0.8	(0.6)	(0.6)	(0.6)	(0.6)	0.8	0.9	1.2	1.6	2	2.3	2.5	2.6	2.4	2.3	2.3	2.5	3	3.7	4.5	5	4.9	4.3
					5								10						15						20			

Illuminance [lx]

Part1

Required minimum illuminance		: 0.5 lx
Minimum illuminance	Emin	: 0.6 lx (* 0.5 lx)
Maximum illuminance	Emax	: 45 lx (* 46 lx)
Diversity	Emin/Emax	: 1 : 78.20 (0.01) (Threshold value 1:40) (* 1:86.20)
Height		: 0.2 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

*: Values on fine measuing grid (0.1m - 0.5m)!

1.2 Calculation results, Exterior 1

1.2.3 Table, Emergency area 13 (E)

1.7	2.5	3.7	5.7	8.5	11.6	13.5	13	10.4	7.4	4.9	3.2	2.2	1.5	1.2	1	0.9	1	1.1	1.5	2.1	3	4.3	5.8	6.8	6.9	6	4.7	3.7
2	3.1	5	8.2	13.4	19.4	23.3	22.2	17.1	11.3	6.9	4.2	2.7	1.8	1.3	1.1	1	1.1	1.3	1.8	2.7	4.2	6.6	9.4	11.5	11.7	9.6	6.9	5
2.3	3.6	6.1	10.8	18.7	28.9	35.7	33.6	24.7	15.3	8.7	5	3	2	1.5	1.3	1.2	1.2	1.5	2.1	3.3	5.7	9.5	14.3	17.7	17.1	13.3	8.9	6.2
2.5	3.9	6.8	12.3	22.2	35.5	**[44.5]**	41.3	29.2	17.3	9.6	5.4	3.2	2.2	1.6	1.4	1.3	1.4	1.7	2.4	3.8	6.6	11.5	17.8	22	20.8	15.5	10	6.8
2.6	3.9	6.5	11.5	20.2	31.5	39.2	36.6	26.4	16.1	9.2	5.3	3.3	2.3	1.8	1.6	1.5	1.5	1.8	2.4	3.7	6.2	10.5	15.9	19.5	18.6	14	9.4	6.5
2.6	3.7	5.5	9	14.6	21.1	25.3	23.9	18.2	11.9	7.3	4.6	3.2	2.4	2	1.8	1.7	1.7	1.9	2.3	3.3	5	7.7	10.9	12.8	12.3	9.8	7.1	5.3
2.7	3.3	4.5	6.5	9.6	13	15.1	14.4	11.4	8.1	5.5	3.9	3	2.6	2.4	2.3	2.2	2.1	2.1	2.3	2.8	3.8	5.3	7	7.9	7.6	6.4	5	4.2
3	3.1	3.7	4.7	6.1	7.6	8.5	8.2	6.9	5.4	4.2	3.4	3.1	3	3.1	3.1	3	2.8	2.6	2.4	2.6	3	3.6	4.3	4.7	4.6	4.1	3.6	3.3
3.6	3.2	3.2	3.5	4.1	4.6	4.9	4.8	4.4	3.8	3.4	3.2	3.4	4	4.6	5	4.9	4.3	3.5	2.9	2.5	2.5	2.6	2.9	3	3	2.9	2.8	2.9

25 30 35 40 45 [m]

Part2

1.2 Calculation results, Exterior 1

1.2.3 Table, Emergency area 13 (E)

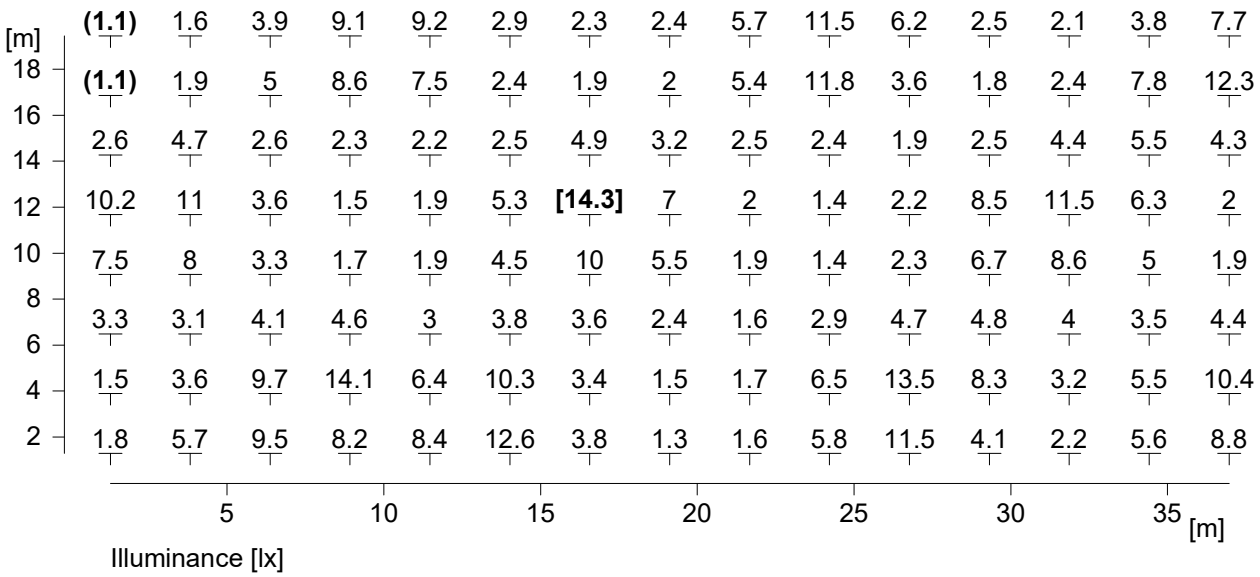
3.4	3.7	4.6	5.9
4.5	5.2	7.1	9.6
5.5	6.8	10	14.4
6.1	7.8	12.1	17.9
5.9	7.4	11	16
5	6	8.3	11.2
4.1	4.7	5.9	7.4
3.4	3.8	4.4	5.1
3.1	3.5	3.9	4.2

]

Part3

1.2 Calculation results, Exterior 1

1.2.4 Table, Emergency area 14 (E)

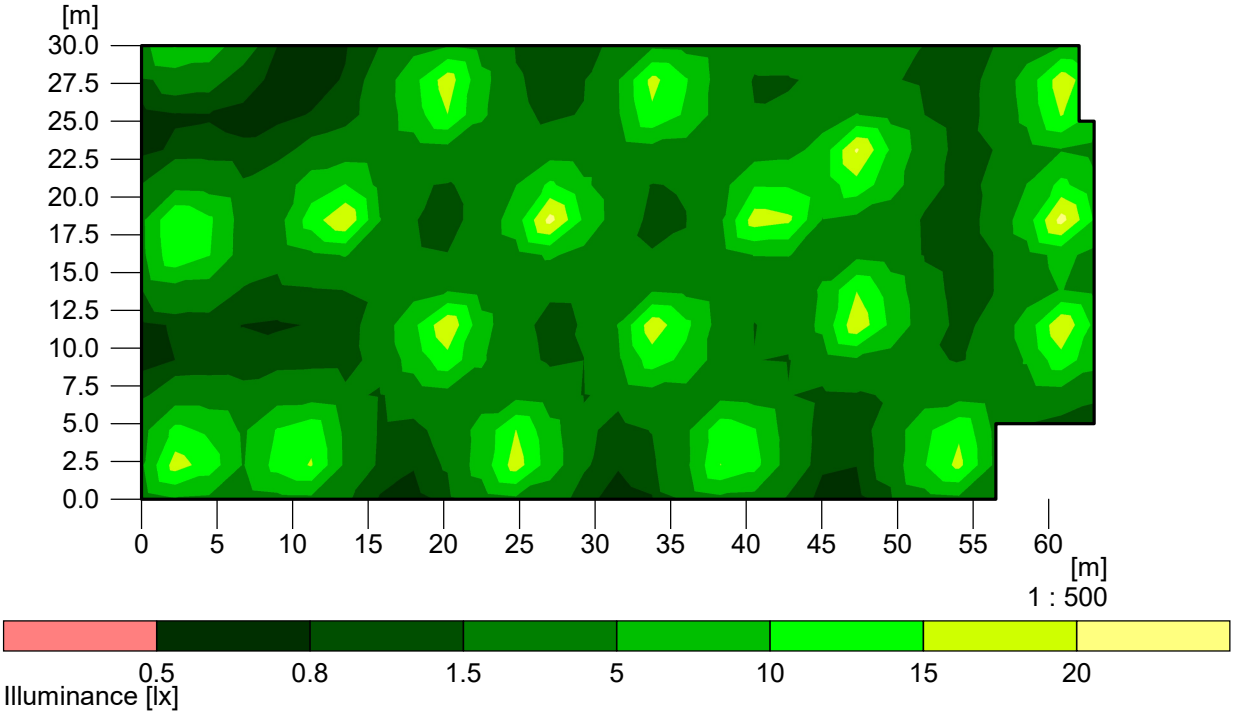


Required minimum illuminance		: 0.5 lx
Minimum illuminance	Emin	: 1.1 lx (* 0.7 lx)
Maximum illuminance	Emax	: 14 lx (* 20 lx)
Diversity	Emin/Emax	: 1 : 12.70 (0.08) (Threshold value 1:40) (* 1:28.30)
Height		: 0.1 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

*: Values on fine measuing grid (0.1m - 0.5m)!

1.2 Calculation results, Exterior 1

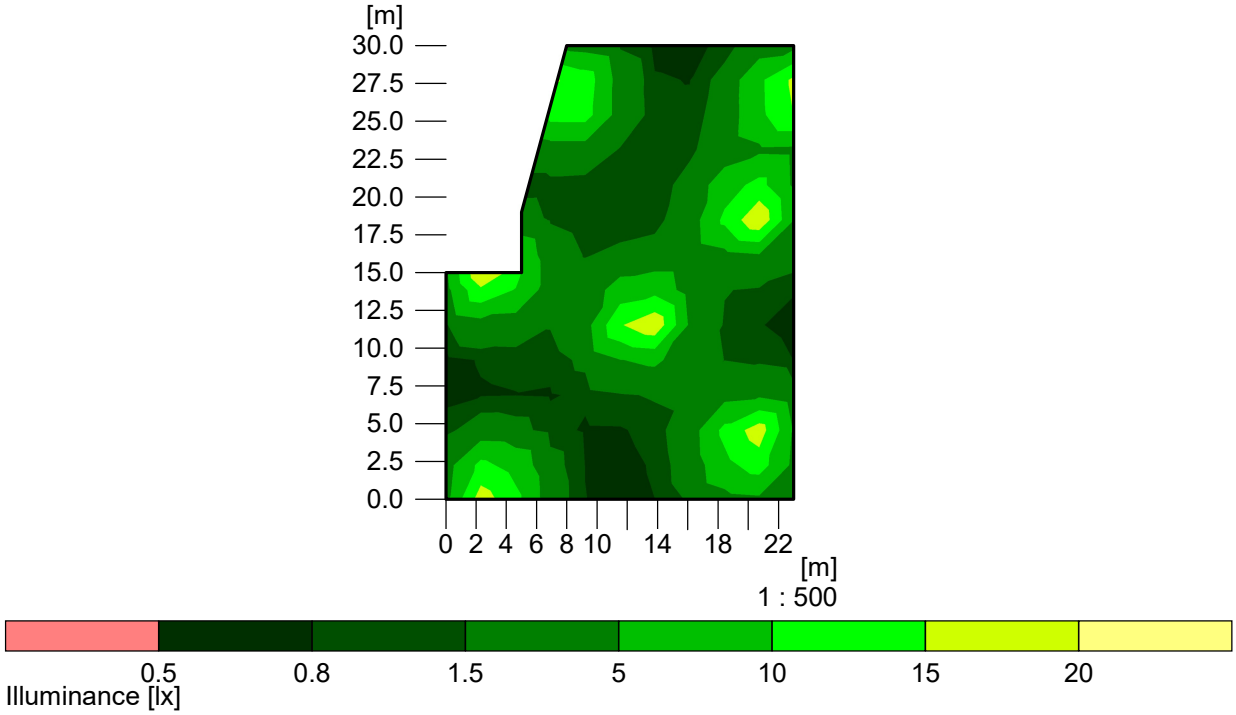
1.2.5 Boundary line, Emergency area 11 (E)



Required minimum illuminance		: 0.5 lx
Minimum illuminance	Emin	: 0.6 lx
Maximum illuminance	Emax	: 22 lx
Diversity	Emin/Emax	: 1 : 39.20 (0.03) (Threshold value 1:40)
Height		: 0.2 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

1.2 Calculation results, Exterior 1

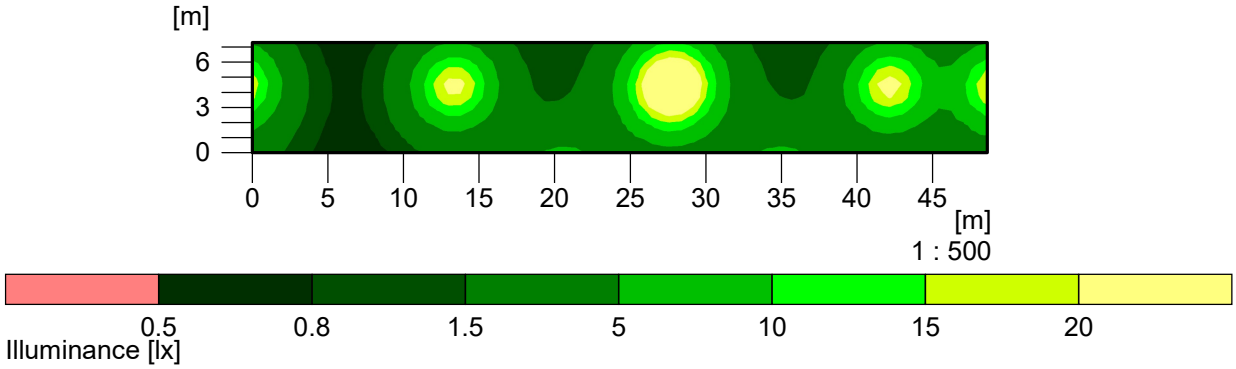
1.2.6 Boundary line, Emergency area 12 (E)



Required minimum illuminance		: 0.5 lx
Minimum illuminance	Emin	: 0.5 lx
Maximum illuminance	Emax	: 20 lx
Diversity	Emin/Emax	: 1 : 37.20 (0.03) (Threshold value 1:40)
Height		: 0.2 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

1.2 Calculation results, Exterior 1

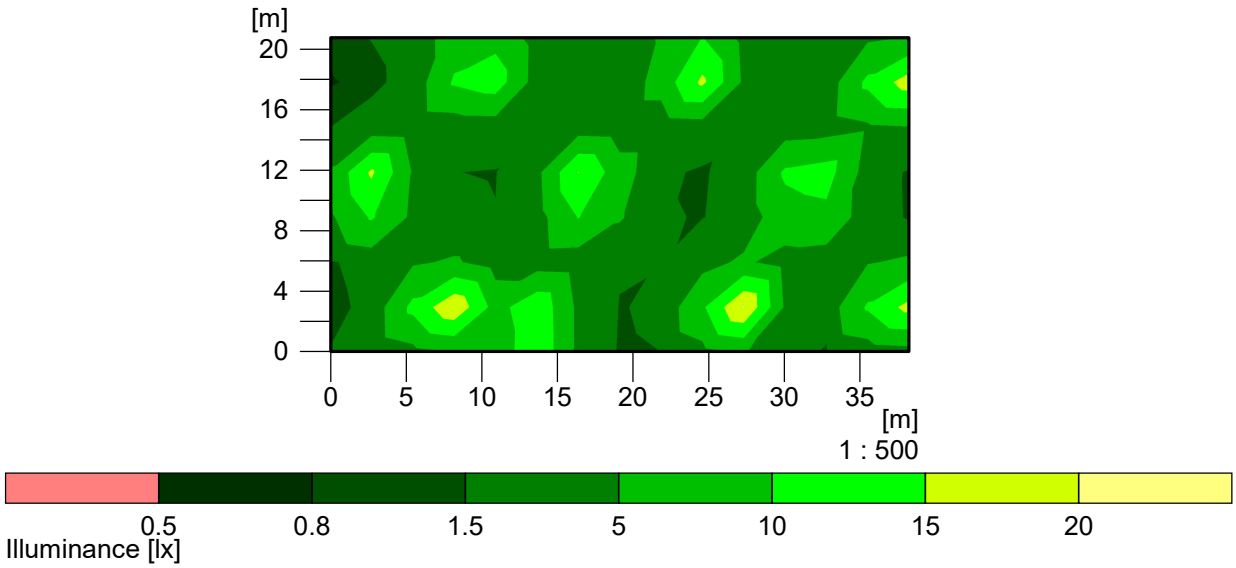
1.2.7 Boundary line, Emergency area 13 (E)



Required minimum illuminance		: 0.5 lx
Minimum illuminance	Emin	: 0.5 lx
Maximum illuminance	Emax	: 46 lx
Diversity	Emin/Emax	: 1 : 86.20 (0.01) (Threshold value 1:40)
Height		: 0.2 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

1.2 Calculation results, Exterior 1

1.2.8 Boundary line, Emergency area 14 (E)



Required minimum illuminance		: 0.5 lx
Minimum illuminance	Emin	: 0.7 lx
Maximum illuminance	Emax	: 20 lx
Diversity	Emin/Emax	: 1 : 28.30 (0.04) (Threshold value 1:40)
Height		: 0.1 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

1.2 Summary, Exterior 1

1.2.9 Result overview (emergency lighting)

Type No.\Make

		WIREFIELD Ltd	
3	40	Order No.	: GTB46 IP65 LED LINEAR SURFACE
		Luminaire name	: GTB46/3K
		Equipment	: 1 x LED PANELS 33 W / 650 lm

Result evaluation area

Calculation algorithm used: Direct component
Maintenance factor: 0.8

Emergency area:

No.	Default[lx]	Emin[lx]	Surface Emax[lx]	Diversity	Height
Emergency area 11					
11	0.5	0.6	22.0	1: 39.24	0.21
Emergency area 12					
12	0.5	0.5	19.8	1: 37.15	0.21
Emergency area 13					
13	0.5	0.5	45.6	1: 86.20	0.21
Emergency area 14					
14	0.5	0.7	20.3	1: 28.32	0.12