

Lighting Design

Installation : MKM Barnsley

Project number : LP200226

Customer : AA Jones

Processed by : RHB

Date : 20.08.2020

Project description:

All calculations have been based on the information provided, plus the accompanying drawings and verbal information received.

BT Associates t/a Lumineux take no responsibility for the maintenance regime and can only guarantee light levels at start of life.

Our lighting designs are based on relevant lighting guides in conjunction with best practice. The Lumineux LDT files used to produce this design are specific to the Lumineux fittings included herein. A new lighting design must be produced should an alternative fitting be required. The optics of different fittings are rarely the same even if the lumen output is identical. Using an alternate fitting without a design could make the scheme non-compliant with relevant lighting guides.

Emergency scheme is to be checked and confirmed with local building or fire control officer and ultimately approved by the owner of the building. Any emergency calculations that have been completed have been based on 0.5 lux for open areas and 1 lux for escape routes. In general information with regard to positioning of fire fighting and call points is unknown and hence the design does not consider this requirement. Emergency lighting for High Risk areas should be considered additional to this design.

The absence of an emergency scheme within the design does not indicate one is not required, rather that the brief has suggested that this is either already in existence or will be supplied by another source.

Please ensure that this lighting scheme complies with all your requirements before placing order with our sales team.

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

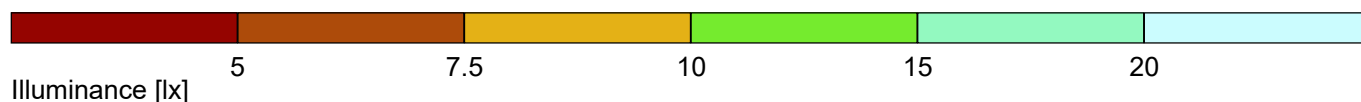
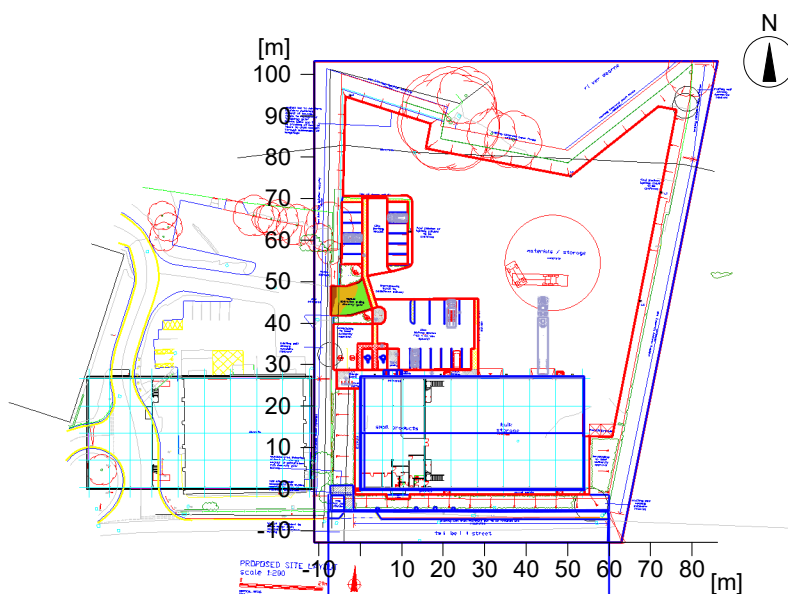
Guarantee claims for luminaire data are excluded.

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

1 External

1.1 Summary, External

1.1.1 Result overview, Entrance Drive



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.82 m (UCS 0.12 m)
Maintenance factor	0.85

Total luminous flux of all lamps	238805 lm
Total power	1861.1 W
Total power per area (9911.84 m ²)	0.19 W/m ²

Illuminance

Average illuminance	Eav	9.3 lx
Minimum illuminance	Emin	6.9 lx
Maximum illuminance	Emax	12.2 lx
Uniformity Uo	Emin/Em	1:1.35 (0.74)
Diversity Ud	Emin/Emax	1:1.78 (0.56)

Type No. Make

1	13	Order No.	: !401440 - M3
		Luminaire name	: M3 - 14W Oldbury 6000K Eyelid
		Equipment	: 1 x LED 14.64 W / 929 lm



Luminairex Lighting

2	2	Order No.	: HB650 Series 421078-BL-120
		Luminaire name	: LED 240W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 240.2 W / 32376 lm



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1 External

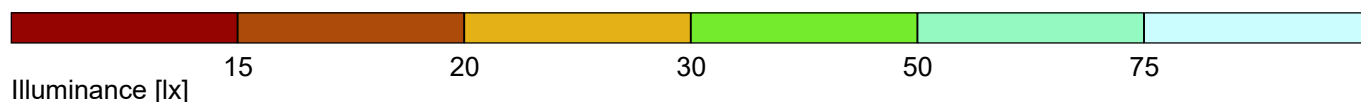
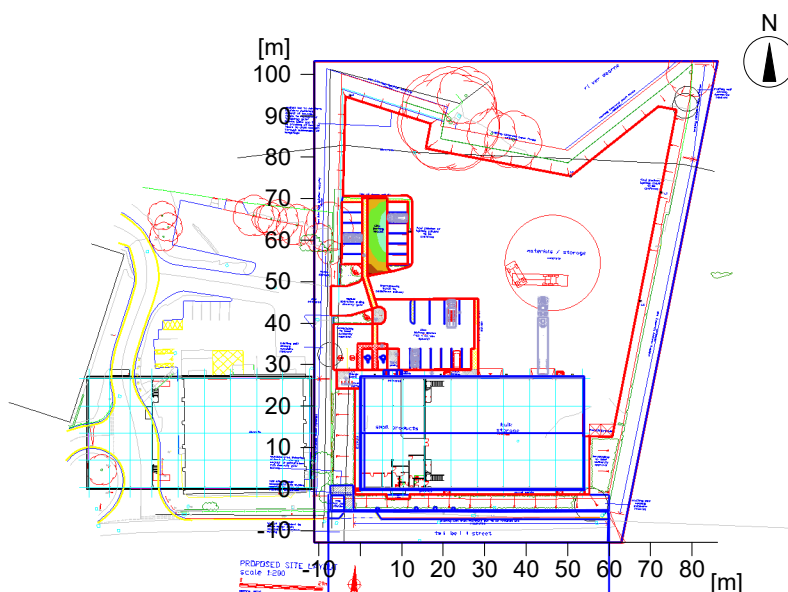
1.1 Summary, External

1.1.1 Result overview, Entrance Drive

3	8	Order No.	: HB650 Series 421074-BL-120
		Luminaire name	: LED 150W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 148.8 W / 20247 lm

1.1 Summary, External

1.1.2 Result overview, Drive area to Parking



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 3.82 m (UCS 0.12 m)
 0.85

Total luminous flux of all lamps
 Total power
 Total power per area (9911.84 m²)

238805 lm
 1861.1 W
 0.19 W/m²

Illuminance

Average illuminance	Eav	33.1 lx
Minimum illuminance	Emin	12.2 lx
Maximum illuminance	Emax	71.6 lx
Uniformity Uo	Emin/Em	1:2.71 (0.37)
Diversity Ud	Emin/Emax	1:5.86 (0.17)

Type No. Make

1	13	Order No.	: !401440 - M3
		Luminaire name	: M3 - 14W Oldbury 6000K Eyelid
		Equipment	: 1 x LED 14.64 W / 929 lm



Luminaireux Lighting

2	2	Order No.	: HB650 Series 421078-BL-120
		Luminaire name	: LED 240W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 240.2 W / 32376 lm



Object : Lighting Design
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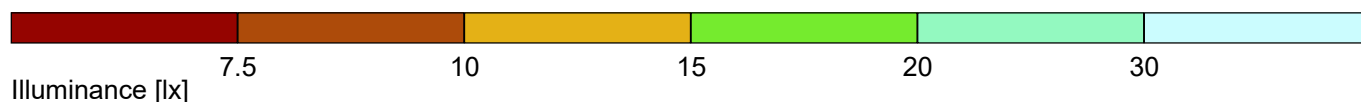
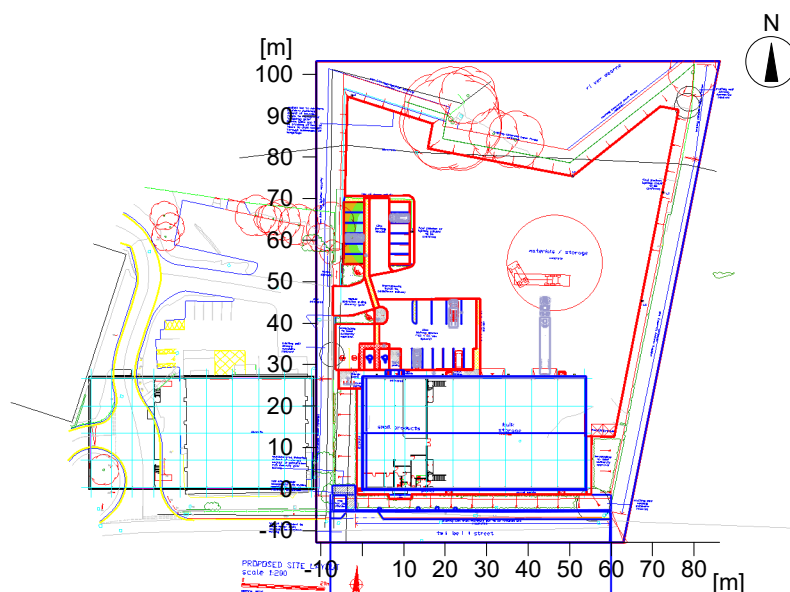
1.1 Summary, External

1.1.2 Result overview, Drive area to Parking

3	8	Order No.	: HB650 Series 421074-BL-120
		Luminaire name	: LED 150W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 148.8 W / 20247 lm

1.1 Summary, External

1.1.3 Result overview, 6 No Parking Spaces



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.82 m (UCS 0.12 m)
Maintenance factor	0.85

Total luminous flux of all lamps	238805 lm
Total power	1861.1 W
Total power per area (9911.84 m ²)	0.19 W/m ²

Illuminance

Average illuminance	Eav	15.6 lx
Minimum illuminance	Emin	9.8 lx
Maximum illuminance	Emax	22.2 lx
Uniformity Uo	Emin/Em	1:1.59 (0.63)
Diversity Ud	Emin/Emax	1:2.27 (0.44)

Type No. Make

1	13	Order No.	: !401440 - M3
		Luminaire name	: M3 - 14W Oldbury 6000K Eyelid
		Equipment	: 1 x LED 14.64 W / 929 lm

Luminaireux Lighting

2	2	Order No.	: HB650 Series 421078-BL-120
		Luminaire name	: LED 240W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 240.2 W / 32376 lm

Object : Lighting Design
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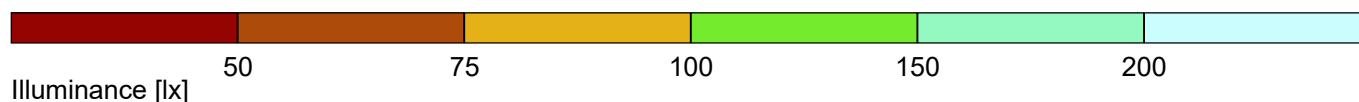
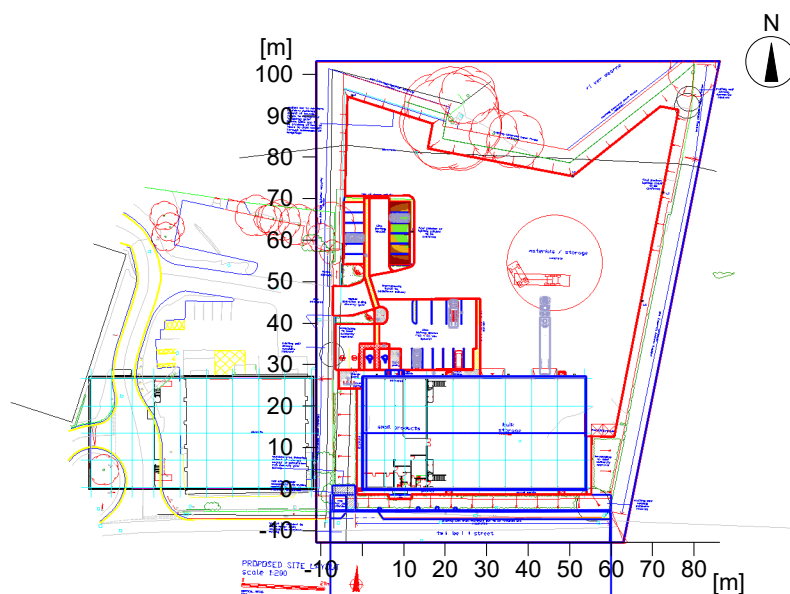
1.1 Summary, External

1.1.3 Result overview, 6 No Parking Spaces

3	8	Order No.	: HB650 Series 421074-BL-120
		Luminaire name	: LED 150W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 148.8 W / 20247 lm

1.1 Summary, External

1.1.4 Result overview, 6 No Parking Spaces



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.82 m (UCS 0.12 m)
Maintenance factor	0.85

Total luminous flux of all lamps	238805 lm
Total power	1861.1 W
Total power per area (9911.84 m ²)	0.19 W/m ²

Illuminance

Average illuminance	Eav	94 lx
Minimum illuminance	Emin	72 lx
Maximum illuminance	Emax	113 lx
Uniformity Uo	Emin/Em	1:1.31 (0.76)
Diversity Ud	Emin/Emax	1:1.58 (0.63)

Type No. Make

1	13	Order No.	: !401440 - M3
		Luminaire name	: M3 - 14W Oldbury 6000K Eyelid
		Equipment	: 1 x LED 14.64 W / 929 lm



Luminaireux Lighting

2	2	Order No.	: HB650 Series 421078-BL-120
		Luminaire name	: LED 240W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 240.2 W / 32376 lm



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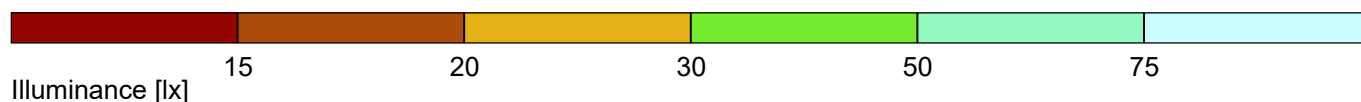
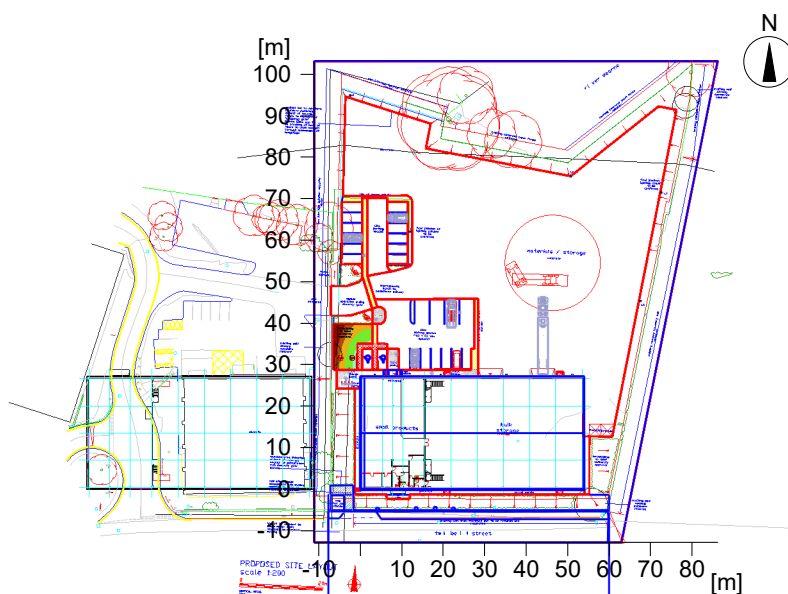
1.1 Summary, External

1.1.4 Result overview, 6 No Parking Spaces

3	8	Order No.	: HB650 Series 421074-BL-120
		Luminaire name	: LED 150W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 148.8 W / 20247 lm

1.1 Summary, External

1.1.5 Result overview, Parking Elect Vehicles



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.82 m (UCS 0.12 m)
Maintenance factor	0.85

Total luminous flux of all lamps	238805 lm
Total power	1861.1 W
Total power per area (9911.84 m ²)	0.19 W/m ²

Illuminance

Average illuminance	Eav	30.8 lx
Minimum illuminance	Emin	16.2 lx
Maximum illuminance	Emax	48.8 lx
Uniformity Uo	Emin/Em	1:1.9 (0.53)
Diversity Ud	Emin/Emax	1:3.02 (0.33)

Type No. Make

1	13	Order No.	: !401440 - M3
		Luminaire name	: M3 - 14W Oldbury 6000K Eyelid
		Equipment	: 1 x LED 14.64 W / 929 lm

Luminaireux Lighting

2	2	Order No.	: HB650 Series 421078-BL-120
		Luminaire name	: LED 240W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 240.2 W / 32376 lm

Object : Lighting Design
Installation : MKM Barnsley
Project number : LP200226
Date : 20.08.2020

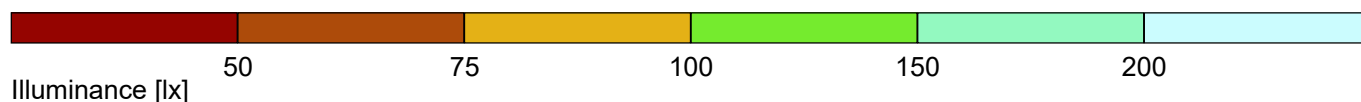
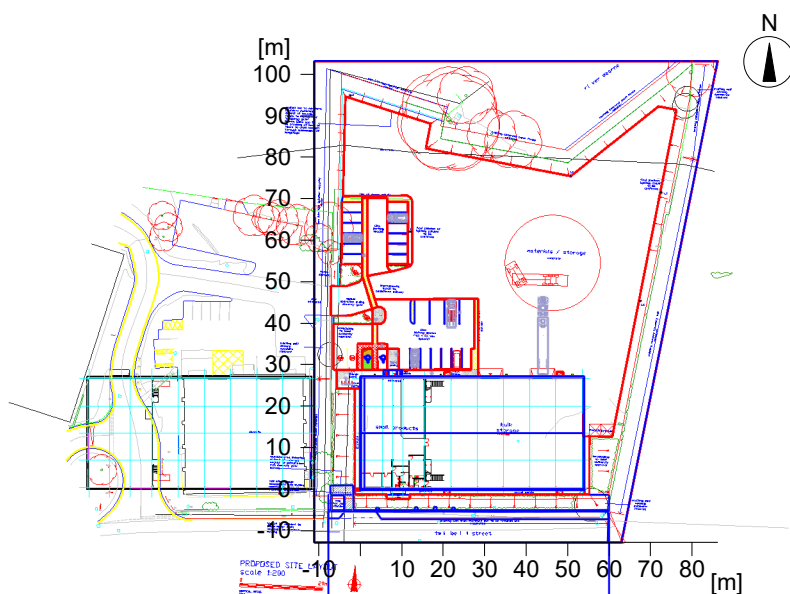
1.1 Summary, External

1.1.5 Result overview, Parking Elect Vehicles

3	8	Order No.	: HB650 Series 421074-BL-120
		Luminaire name	: LED 150W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 148.8 W / 20247 lm

1.1 Summary, External

1.1.6 Result overview, Dis Parking



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.82 m (UCS 0.12 m)
Maintenance factor	0.85

Total luminous flux of all lamps	238805 lm
Total power	1861.1 W
Total power per area (9911.84 m ²)	0.19 W/m ²

Illuminance

Average illuminance	Eav	96 lx
Minimum illuminance	Emin	63 lx
Maximum illuminance	Emax	127 lx
Uniformity Uo	Emin/Em	1:1.53 (0.65)
Diversity Ud	Emin/Emax	1:2.02 (0.49)

Type No. Make

1	13	Order No.	: !401440 - M3
		Luminaire name	: M3 - 14W Oldbury 6000K Eyelid
		Equipment	: 1 x LED 14.64 W / 929 lm

Luminairex Lighting

2	2	Order No.	: HB650 Series 421078-BL-120
		Luminaire name	: LED 240W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 240.2 W / 32376 lm

Object : Lighting Design
Installation : MKM Barnsley
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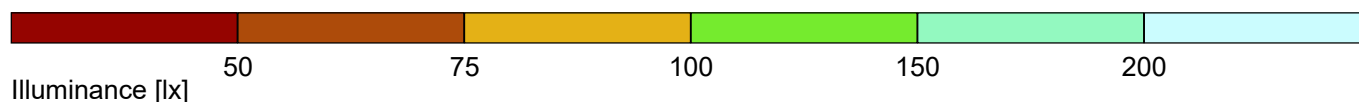
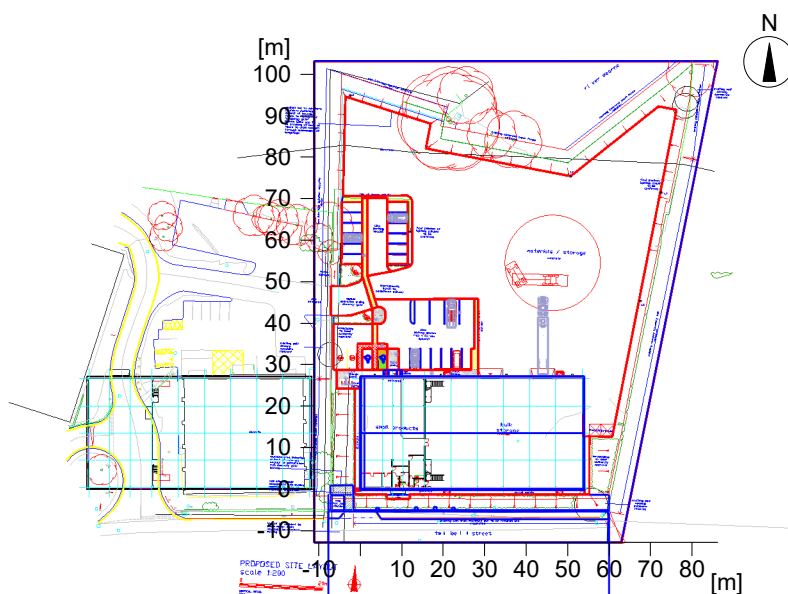
1.1 Summary, External

1.1.6 Result overview, Dis Parking

3	8	Order No.	: HB650 Series 421074-BL-120
		Luminaire name	: LED 150W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 148.8 W / 20247 lm

1.1 Summary, External

1.1.7 Result overview, Dis Parking



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.82 m (UCS 0.12 m)
Maintenance factor	0.85

Total luminous flux of all lamps	238805 lm
Total power	1861.1 W
Total power per area (9911.84 m ²)	0.19 W/m ²

Illuminance

Average illuminance	Eav	111 lx
Minimum illuminance	Emin	82 lx
Maximum illuminance	Emax	132 lx
Uniformity U _o	Emin/Em	1:1.35 (0.74)
Diversity U _d	Emin/Emax	1:1.6 (0.62)

Type No. Make

1	13	Order No.	: !401440 - M3
		Luminaire name	: M3 - 14W Oldbury 6000K Eyelid
		Equipment	: 1 x LED 14.64 W / 929 lm

Luminaireux Lighting

2	2	Order No.	: HB650 Series 421078-BL-120
		Luminaire name	: LED 240W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 240.2 W / 32376 lm

Object : Lighting Design
Installation : MKM Barnsley
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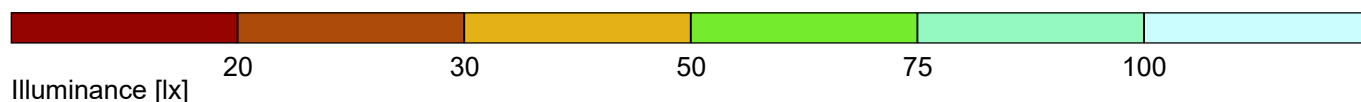
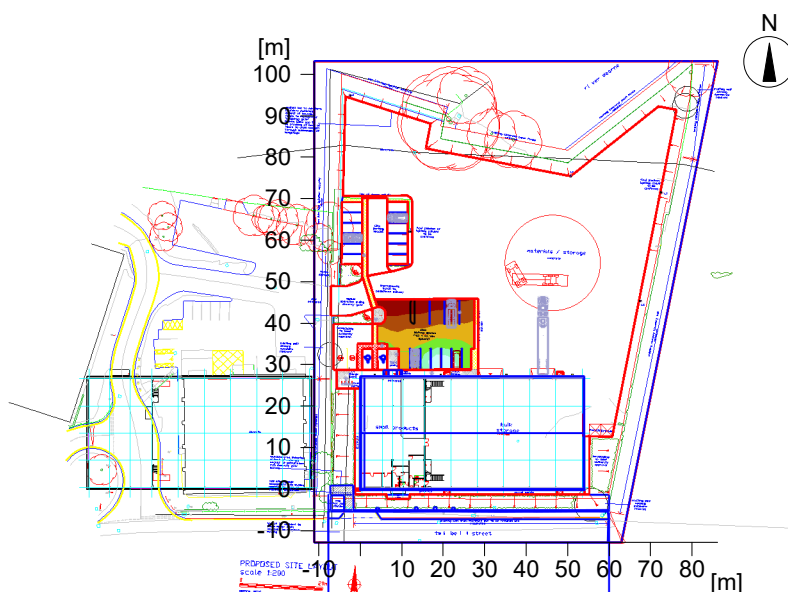
1.1 Summary, External

1.1.7 Result overview, Dis Parking

3	8	Order No.	: HB650 Series 421074-BL-120
		Luminaire name	: LED 150W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 148.8 W / 20247 lm

1.1 Summary, External

1.1.8 Result overview, Parking Area 15 No Spaces



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.82 m (UCS 0.12 m)
Maintenance factor	0.85

Total luminous flux of all lamps	238805 lm
Total power	1861.1 W
Total power per area (9911.84 m ²)	0.19 W/m ²

Illuminance

Average illuminance	Eav	51 lx
Minimum illuminance	Emin	19 lx
Maximum illuminance	Emax	133 lx
Uniformity Uo	Emin/Em	1:2.64 (0.38)
Diversity Ud	Emin/Emax	1:6.86 (0.15)

Type No. Make

1	13	Order No.	: !401440 - M3
		Luminaire name	: M3 - 14W Oldbury 6000K Eyelid
		Equipment	: 1 x LED 14.64 W / 929 lm

Luminaireux Lighting

2	2	Order No.	: HB650 Series 421078-BL-120
		Luminaire name	: LED 240W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 240.2 W / 32376 lm

Object : Lighting Design
Installation : MKM Barnsley
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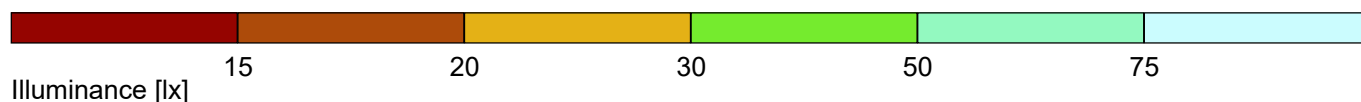
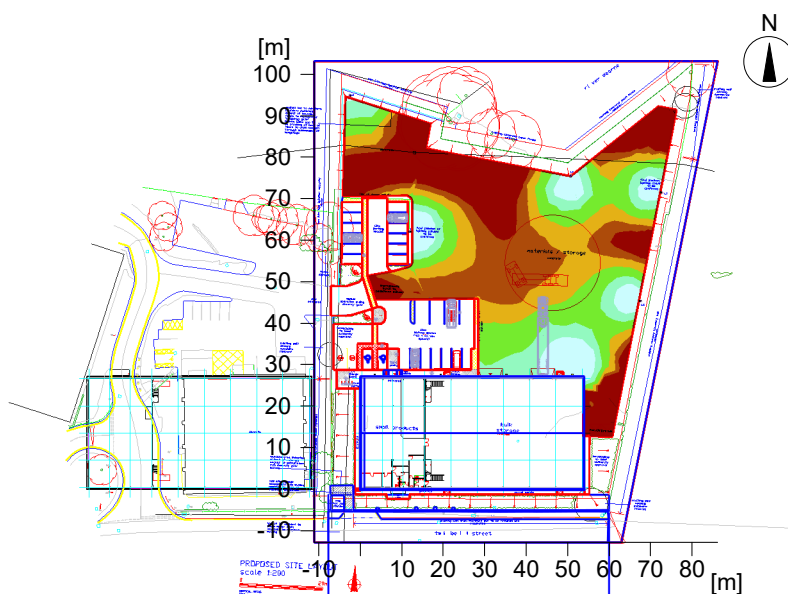
1.1 Summary, External

1.1.8 Result overview, Parking Area 15 No Spaces

3	8	Order No.	: HB650 Series 421074-BL-120
		Luminaire name	: LED 150W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 148.8 W / 20247 lm

1.1 Summary, External

1.1.9 Result overview, Yard



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.82 m (UCS 0.12 m)
Maintenance factor	0.85

Total luminous flux of all lamps	238805 lm
Total power	1861.1 W
Total power per area (9911.84 m ²)	0.19 W/m ²

Illuminance

Average illuminance	Eav	30.6 lx
Minimum illuminance	Emin	9.3 lx
Maximum illuminance	Emax	68.3 lx
Uniformity Uo	Emin/Em	1:3.27 (0.31)
Diversity Ud	Emin/Emax	1:7.31 (0.14)

Type No. Make

1	13	Order No.	: !401440 - M3
		Luminaire name	: M3 - 14W Oldbury 6000K Eyelid
		Equipment	: 1 x LED 14.64 W / 929 lm

Luminaireux Lighting

2	2	Order No.	: HB650 Series 421078-BL-120
		Luminaire name	: LED 240W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 240.2 W / 32376 lm

Object : Lighting Design
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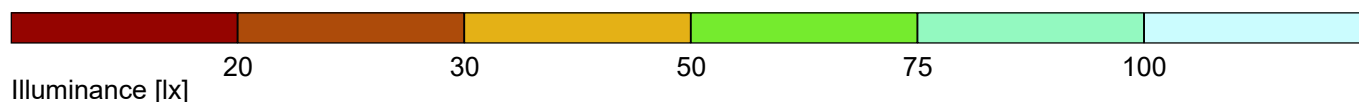
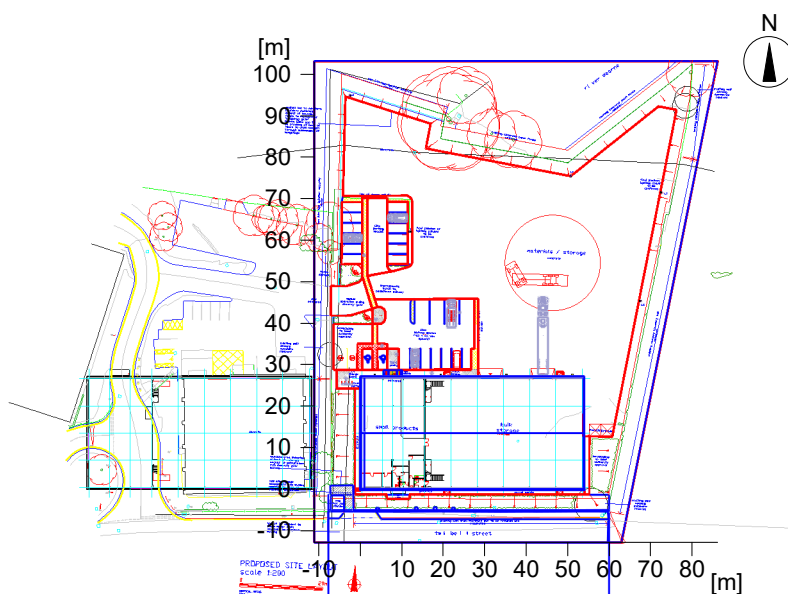
1.1 Summary, External

1.1.9 Result overview, Yard

3	8	Order No.	: HB650 Series 421074-BL-120
		Luminaire name	: LED 150W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 148.8 W / 20247 lm

1.1 Summary, External

1.1.10 Result overview, Main Entrance



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.83 m (UCS 0.13 m)
Maintenance factor	0.85

Total luminous flux of all lamps	238805 lm
Total power	1861.1 W
Total power per area (9911.84 m ²)	0.19 W/m ²

Illuminance

Average illuminance	Eav	54 lx
Minimum illuminance	Emin	19 lx
Maximum illuminance	Emax	135 lx
Uniformity Uo	Emin/Em	1:2.86 (0.35)
Diversity Ud	Emin/Emax	1:7.12 (0.14)

Type No. Make

1	13	Order No.	: !401440 - M3
		Luminaire name	: M3 - 14W Oldbury 6000K Eyelid
		Equipment	: 1 x LED 14.64 W / 929 lm

Luminaireux Lighting

2	2	Order No.	: HB650 Series 421078-BL-120
		Luminaire name	: LED 240W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 240.2 W / 32376 lm

Object : Lighting Design
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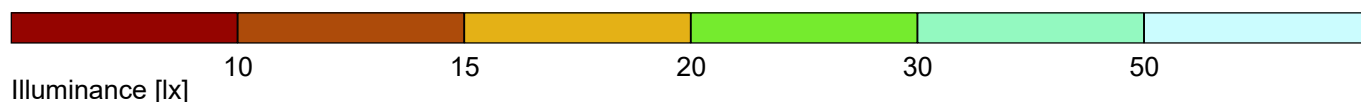
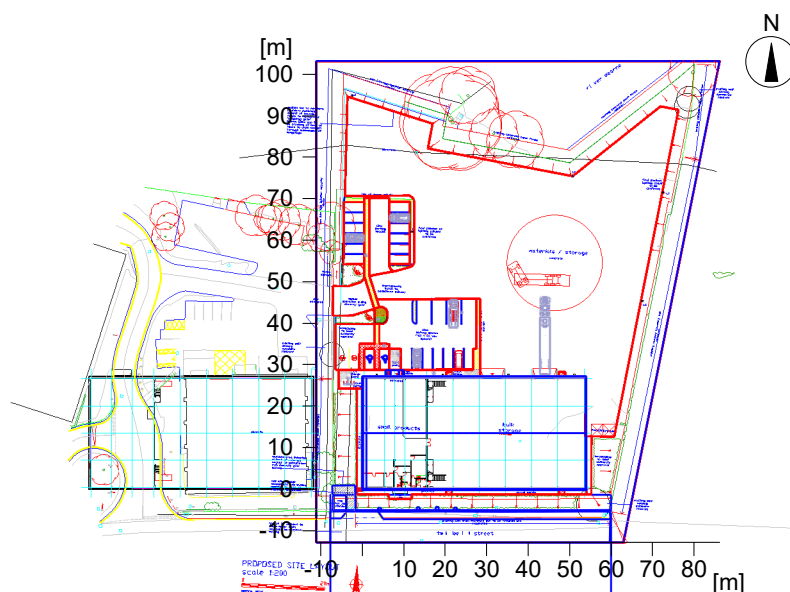
1.1 Summary, External

1.1.10 Result overview, Main Entrance

3	8	Order No.	: HB650 Series 421074-BL-120
		Luminaire name	: LED 150W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 148.8 W / 20247 lm

1.1 Summary, External

1.1.11 Result overview, Block Paving Pedestrian Island



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.82 m (UCS 0.12 m)
Maintenance factor	0.85

Total luminous flux of all lamps	238805 lm
Total power	1861.1 W
Total power per area (9911.84 m ²)	0.19 W/m ²

Illuminance

Average illuminance	Eav	19.2 lx
Minimum illuminance	Emin	14.4 lx
Maximum illuminance	Emax	24.9 lx
Uniformity Uo	Emin/Em	1:1.34 (0.75)
Diversity Ud	Emin/Emax	1:1.74 (0.58)

Type No. Make

1	13	Order No.	: !401440 - M3
		Luminaire name	: M3 - 14W Oldbury 6000K Eyelid
		Equipment	: 1 x LED 14.64 W / 929 lm



Luminaireux Lighting

2	2	Order No.	: HB650 Series 421078-BL-120
		Luminaire name	: LED 240W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 240.2 W / 32376 lm



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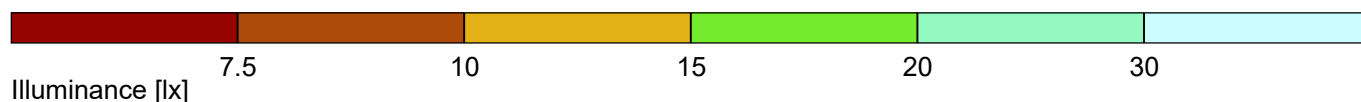
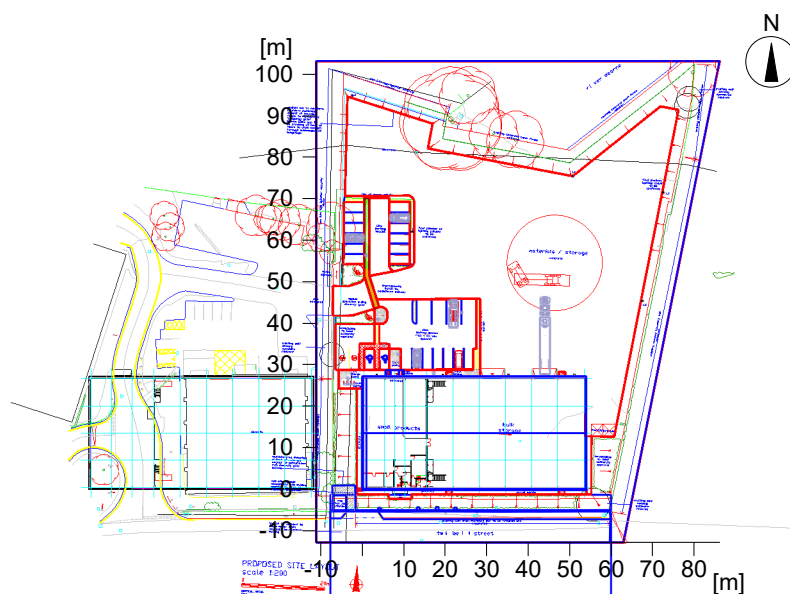
1.1 Summary, External

1.1.11 Result overview, Block Paving Pedestrian Island

3	8	Order No.	: HB650 Series 421074-BL-120
		Luminaire name	: LED 150W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 148.8 W / 20247 lm

1.1 Summary, External

1.1.12 Result overview, Pedestrian Walkway



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.82 m (UCS 0.12 m)
Maintenance factor	0.85

Total luminous flux of all lamps	238805 lm
Total power	1861.1 W
Total power per area (9911.84 m ²)	0.19 W/m ²

Illuminance

Average illuminance	Eav	14.5 lx
Minimum illuminance	Emin	14.5 lx
Maximum illuminance	Emax	14.5 lx
Uniformity Uo	Emin/Em	1:1 (1)
Diversity Ud	Emin/Emax	1:1 (1)

Type No. Make

1	13	Order No.	: !401440 - M3
		Luminaire name	: M3 - 14W Oldbury 6000K Eyelid
		Equipment	: 1 x LED 14.64 W / 929 lm

Luminaireux Lighting

2	2	Order No.	: HB650 Series 421078-BL-120
		Luminaire name	: LED 240W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 240.2 W / 32376 lm

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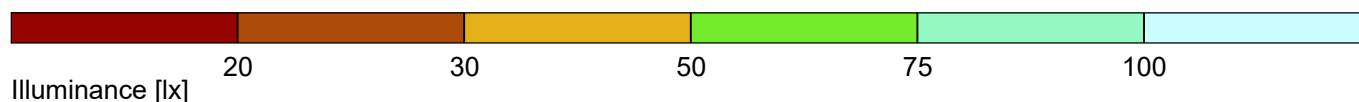
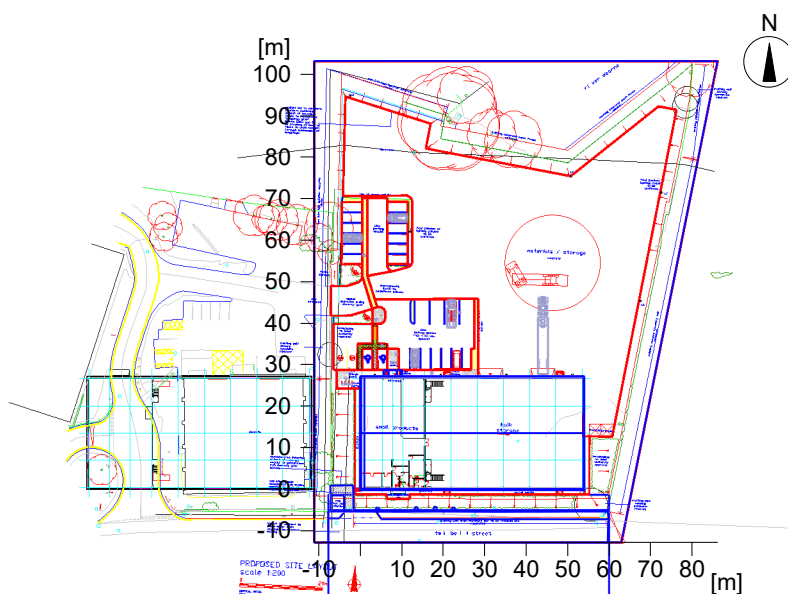
1.1 Summary, External

1.1.12 Result overview, Pedestrian Walkway

3	8	Order No.	: HB650 Series 421074-BL-120
		Luminaire name	: LED 150W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 148.8 W / 20247 lm

1.1 Summary, External

1.1.13 Result overview, Block Paving around Dis Parking



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	3.82 m (UCS 0.12 m)
Maintenance factor	0.85

Total luminous flux of all lamps	238805 lm
Total power	1861.1 W
Total power per area (9911.84 m ²)	0.19 W/m ²

Illuminance

Average illuminance	Eav	56.5 lx
Minimum illuminance	Emin	38.8 lx
Maximum illuminance	Emax	66.2 lx
Uniformity Uo	Emin/Em	1:1.46 (0.69)
Diversity Ud	Emin/Emax	1:1.7 (0.59)

Type No. Make

1	13	Order No.	: !401440 - M3
		Luminaire name	: M3 - 14W Oldbury 6000K Eyelid
		Equipment	: 1 x LED 14.64 W / 929 lm



Luminaireux Lighting

2	2	Order No.	: HB650 Series 421078-BL-120
		Luminaire name	: LED 240W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 240.2 W / 32376 lm



Object : Lighting Design
Installation : MKM Barnsley
Project number : LP200226
Date : 20.08.2020

1.1 Summary, External

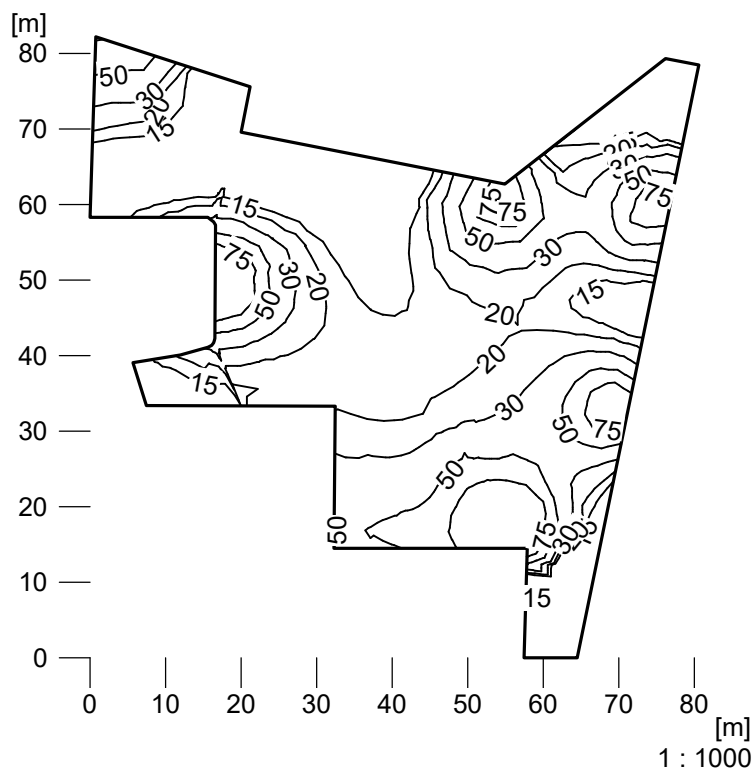
1.1.13 Result overview, Block Paving around Dis Parking

3	8	Order No.	: HB650 Series 421074-BL-120
		Luminaire name	: LED 150W HiCourt II 5000K Black Asymmetric Optic
		Equipment	: 1 x LED 148.8 W / 20247 lm

1 External

1.2 Calculation results, External

1.2.1 Isolines representation, Yard (E)

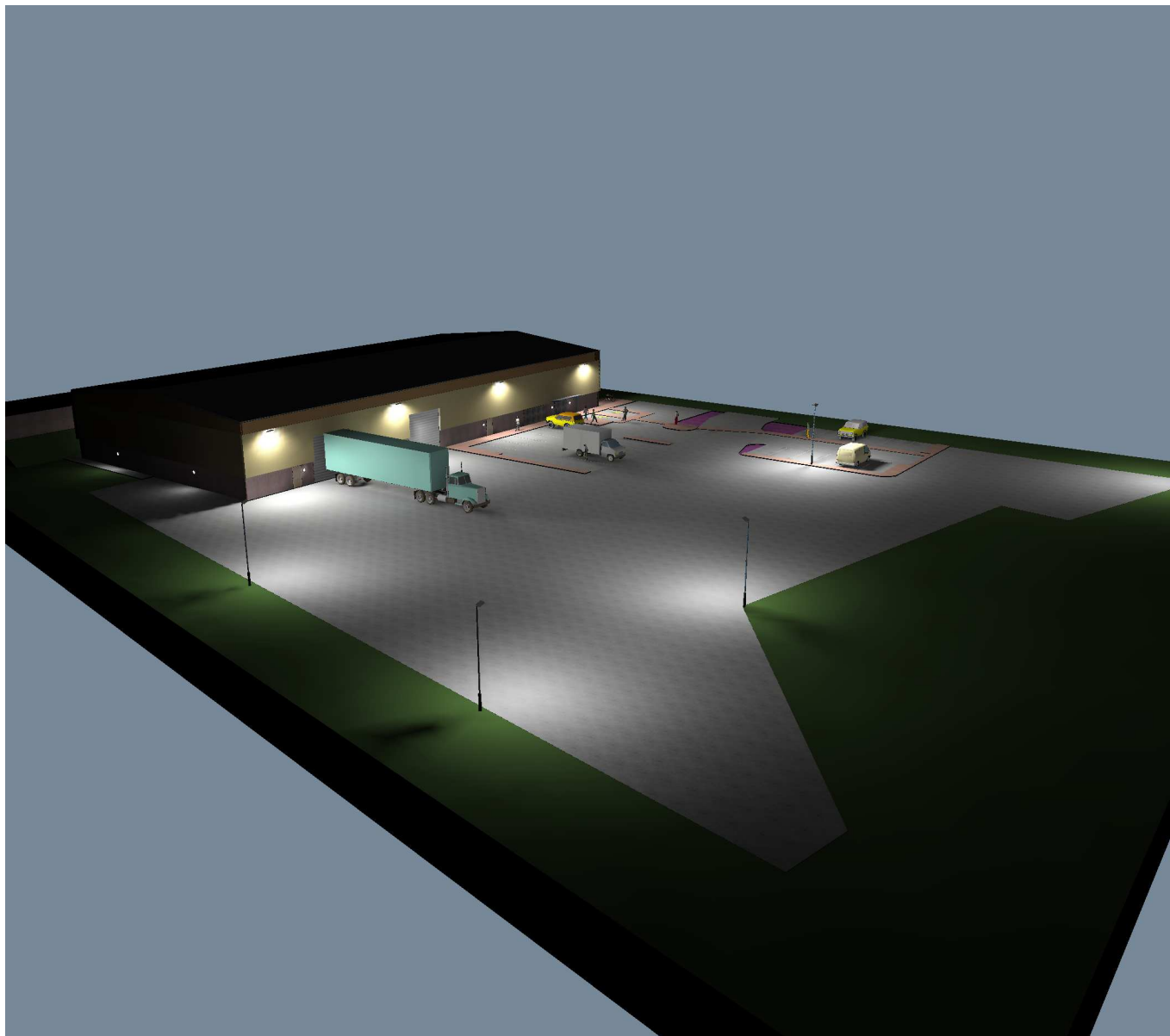


Illuminance [lx]

Height of the reference plane		: 3.82 m
Average illuminance	Eav	: 30.6 lx
Minimum illuminance	Emin	: 9.3 lx
Maximum illuminance	Emax	: 68.3 lx
Uniformity Uo	Emin/Eav	: 1 : 3.27 (0.31)
Diversity Ud	Emin/Emax	: 1 : 7.31 (0.14)

1.2 Calculation results, External

1.2.2 3D luminance, View 1



Luminance in the scene

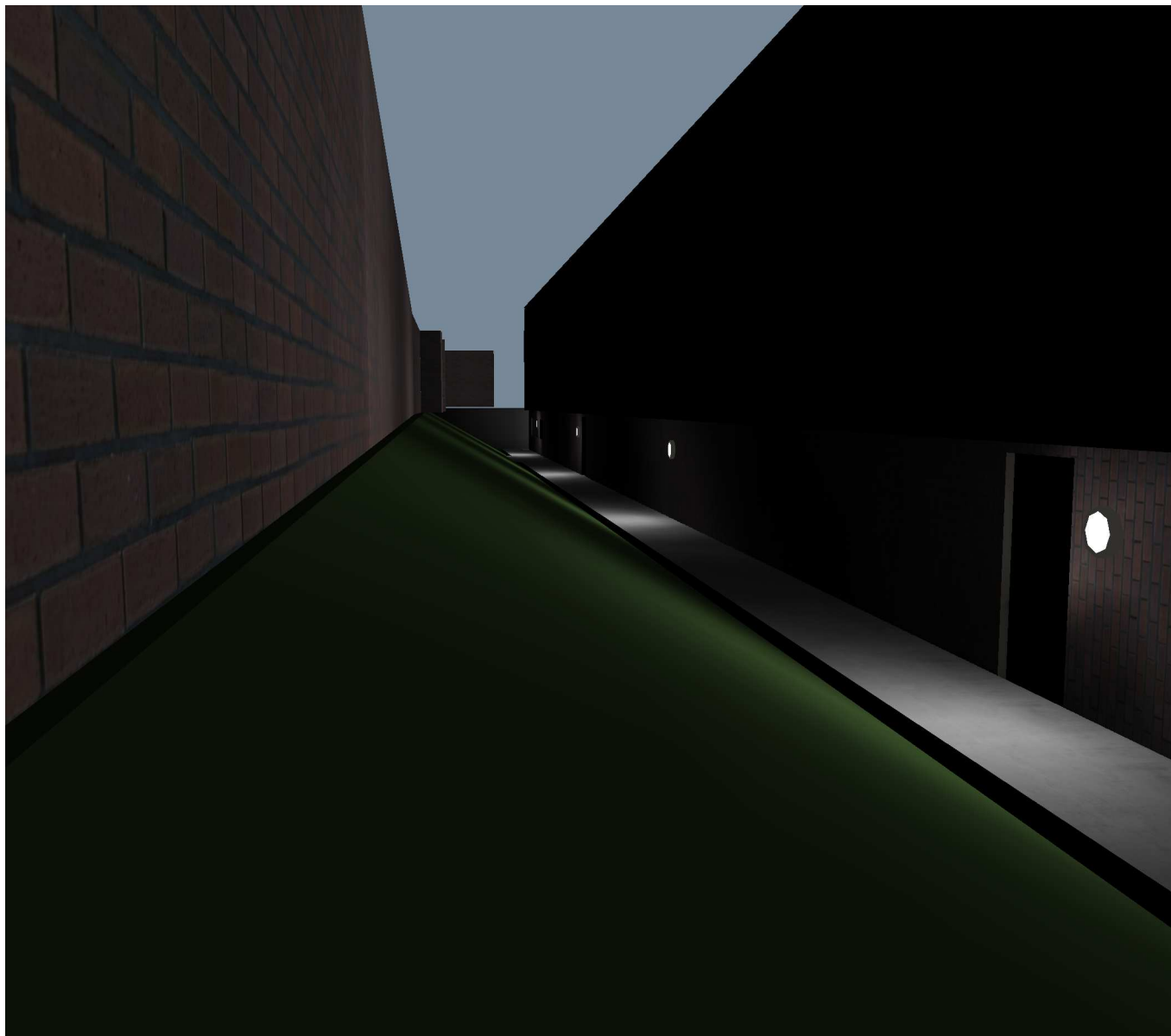
Minimum: : 0 cd/m²

Maximum: : 500 cd/m²

Without consideration of the luminaire geometry

1.2 Calculation results, External

1.2.3 3D luminance, View 2



Luminance in the scene

Minimum: : 0 cd/m²

Maximum: : 500 cd/m²

Without consideration of the luminaire geometry

1.2 Calculation results, External

1.2.4 3D luminance, View 3



Luminance in the scene

Minimum: : 0 cd/m²

Maximum: : 500 cd/m²

Without consideration of the luminaire geometry

1.2 Calculation results, External

1.2.5 3D luminance, View 4



Luminance in the scene

Minimum: : 0 cd/m²

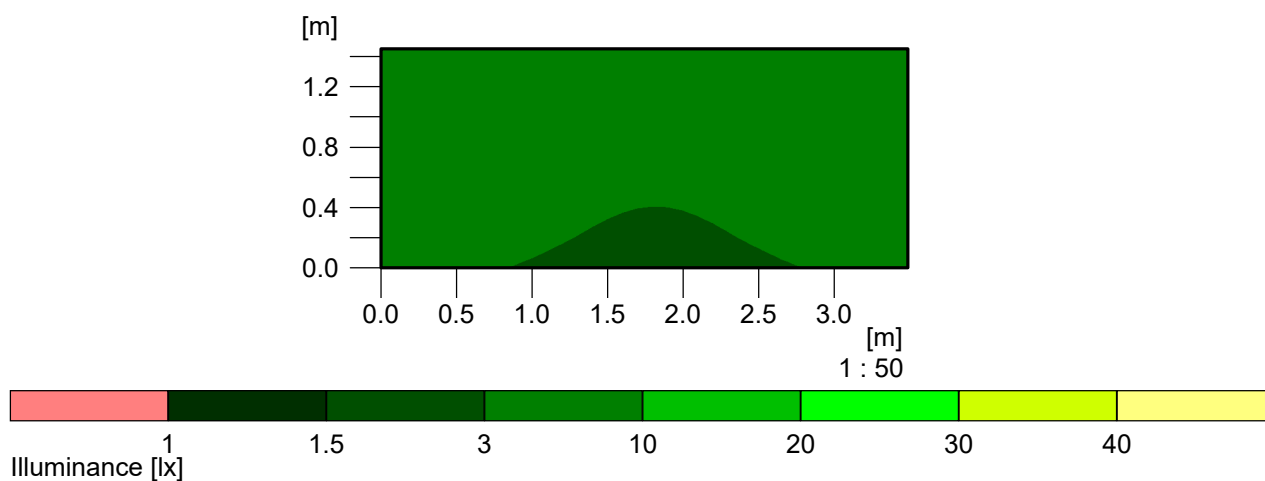
Maximum: : 500 cd/m²

Without consideration of the luminaire geometry

1 External

1.3 Calculation results, External

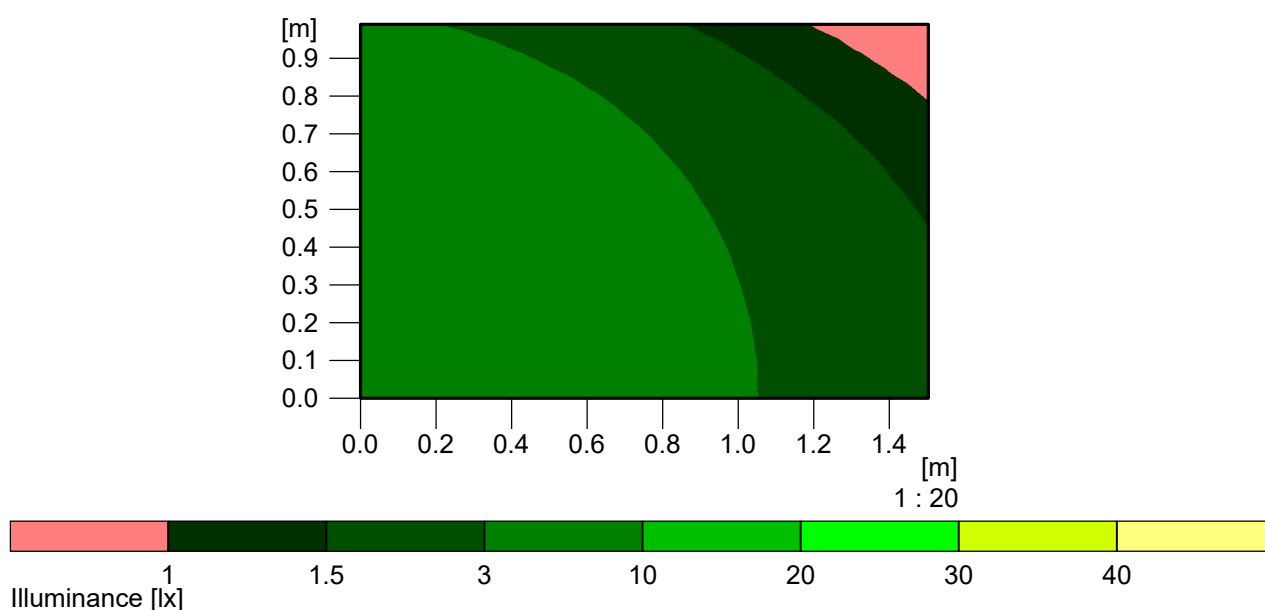
1.3.1 Boundary line, Main Entrance (E)



Required minimum illuminance		: 1 lx
Minimum illuminance	Emin	: 1.5 lx
Maximum illuminance	Emax	: 9.6 lx
Diversity	Emin/Emax	: 1 : 6.48 (0.15) (Threshold value 1:40)
Height		: 3.8 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

1.3 Calculation results, External

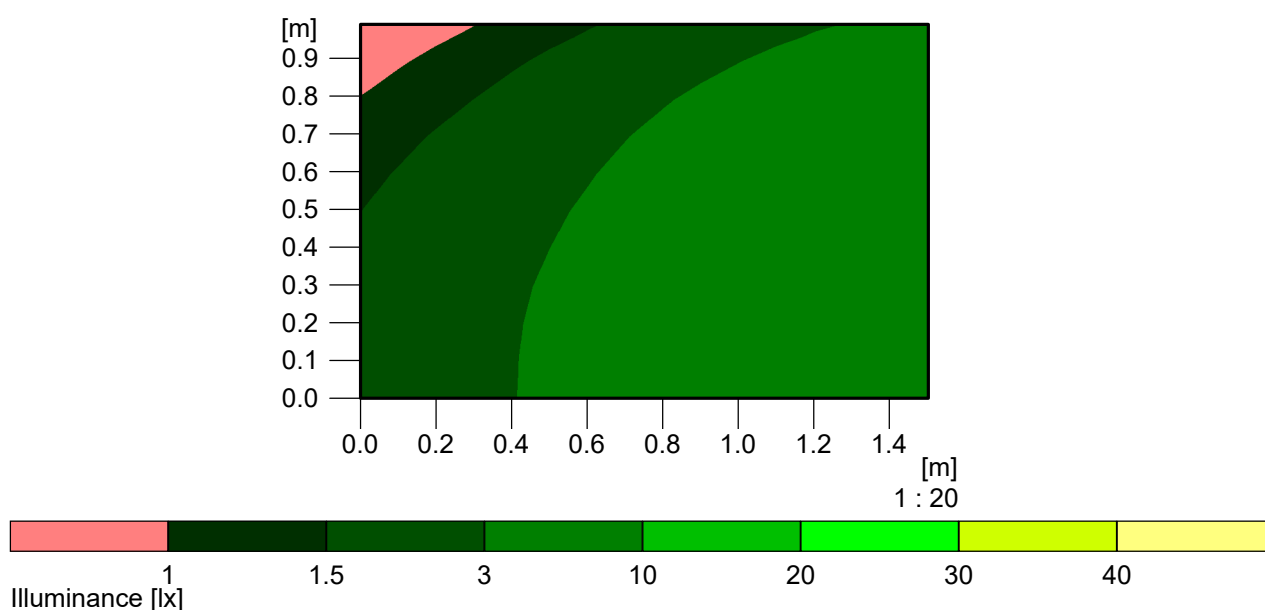
1.3.2 Boundary line, Fire Exit (E)



Required minimum illuminance		: 1 lx
Minimum illuminance	Emin	: 0.7 lx
Maximum illuminance	Emax	: 7.3 lx
Diversity	Emin/Emax	: 1 : 10.80 (0.09) (Threshold value 1:40)
Height		: 3.7 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

1.3 Calculation results, External

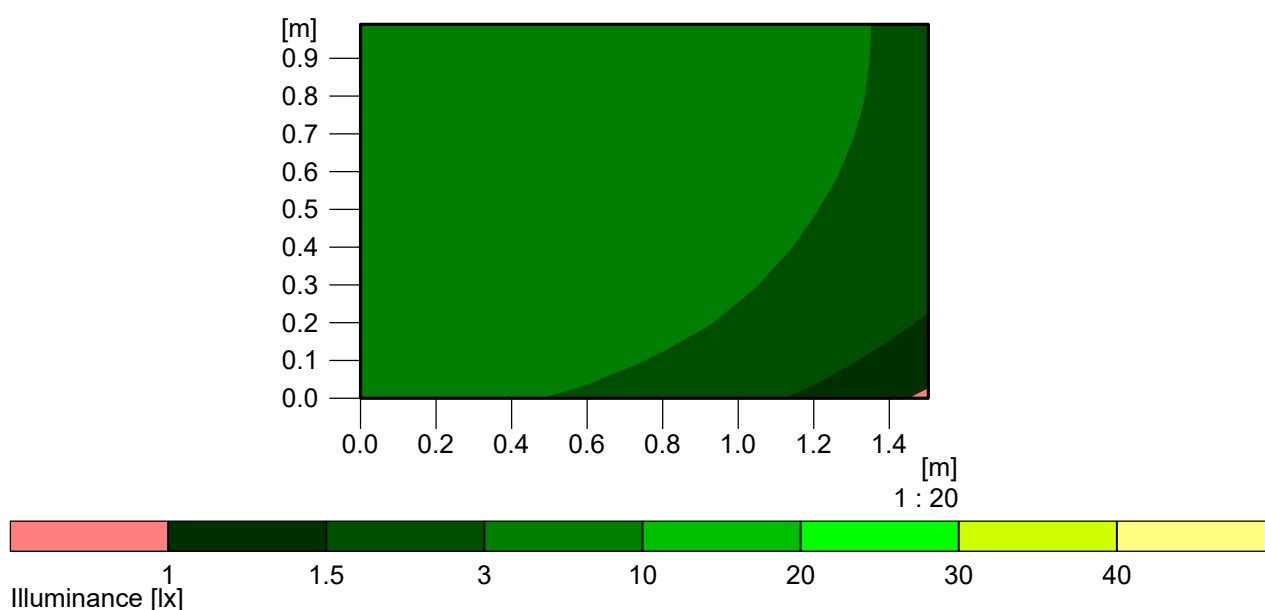
1.3.3 Boundary line, Fire Exit (E)



Required minimum illuminance		: 1 lx
Minimum illuminance	Emin	: 0.7 lx
Maximum illuminance	Emax	: 7.4 lx
Diversity	Emin/Emax	: 1 : 10.90 (0.09) (Threshold value 1:40)
Height		: 3.7 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

1.3 Calculation results, External

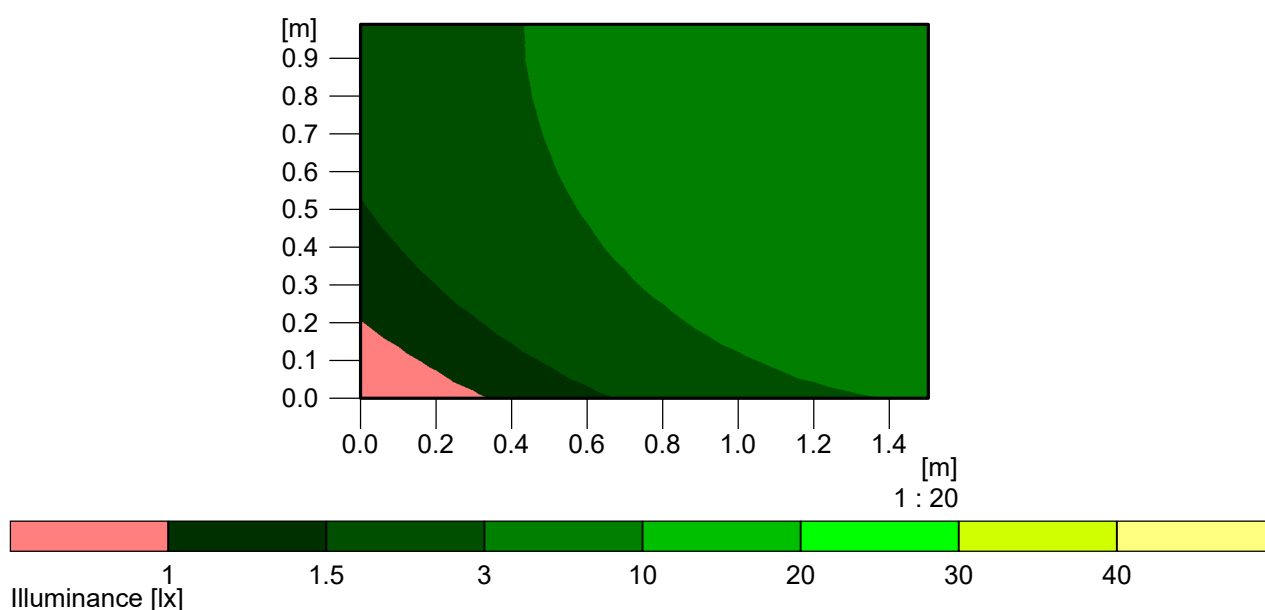
1.3.4 Boundary line, Fire Exit (E)



Required minimum illuminance		: 1 lx
Minimum illuminance	Emin	: 0.9 lx
Maximum illuminance	Emax	: 7.8 lx
Diversity	Emin/Emax	: 1 : 8.44 (0.12) (Threshold value 1:40)
Height		: 3.7 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

1.3 Calculation results, External

1.3.5 Boundary line, Fire Exit (E)



Required minimum illuminance		: 1 lx
Minimum illuminance	Emin	: 0.7 lx
Maximum illuminance	Emax	: 7.3 lx
Diversity	Emin/Emax	: 1 : 11.20 (0.09) (Threshold value 1:40)
Height		: 3.7 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8