

Installation : Havant Towers Car Park

Project number : STP05533
Customer : Guinness
Processed by : Liam Parkinson
Date : 13.05.2021

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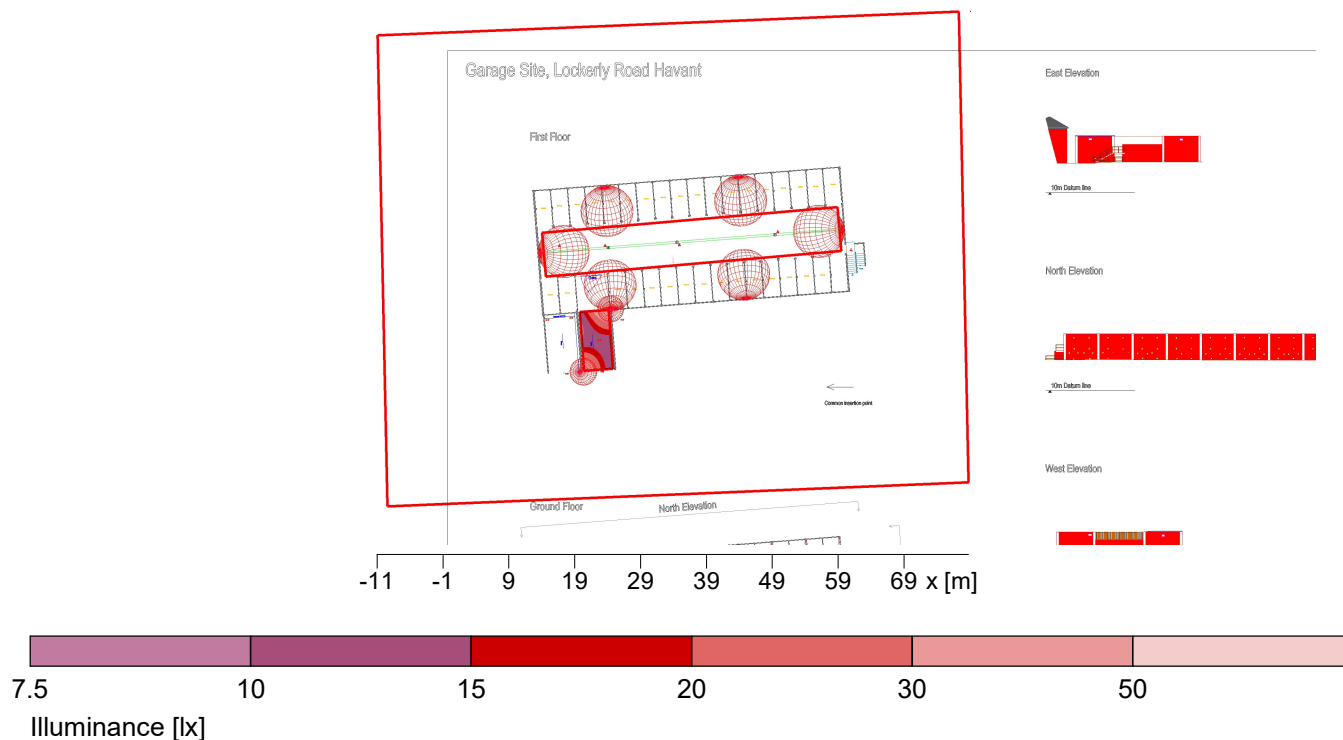
Liam Parkinson

Steon Ltd, Bridgewater Court, Network 65 Business Park, Burnley, Lancashire, BB11 5ST

1 Exterior 1

1.1 Summary, Exterior 1

1.1.1 Result overview, Measuring area 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Height (photocentre) [m]:	4.00 m
Maintenance factor	0.80

Total luminous flux of all lamps	22720 lm
Total power	116 W
Total power per area (6302.74 m²)	0.02 W/m²

Illuminance

Average illuminance	Em	17.9 lx
Minimum illuminance	Emin	9.2 lx
Maximum illuminance	Emax	53.5 lx
Uniformity Uo	Emin/Em	1:1.93 (0.52)
Diversity Ud	Emin/Emax	1:5.79 (0.17)

Type No.\Make

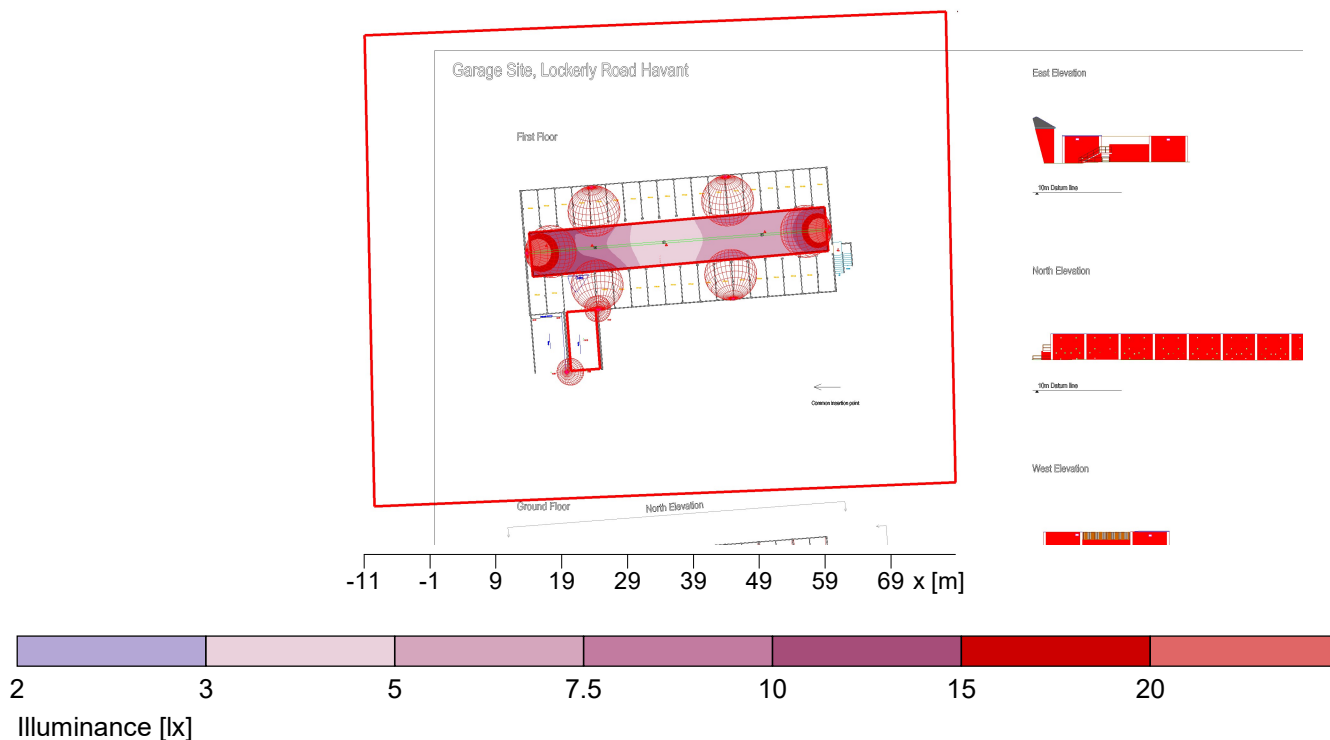


Steon Lighting

Order No.	: 75-262-460-502
Luminaire name	: Bank FL Midi 14W LED - 5700K
Equipment	: 1 x 14W 14.5 W / 2840 lm

1.1 Summary, Exterior 1

1.1.2 Result overview, Measuring area 2



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Height (photocentre) [m]:	4.00 m
Maintenance factor	0.80

Total luminous flux of all lamps	22720 lm
Total power	116 W
Total power per area (6302.74 m²)	0.02 W/m²

Illuminance

Average illuminance	Em	8.5 lx
Minimum illuminance	Emin	2.9 lx
Maximum illuminance	Emax	27.9 lx
Uniformity Uo	Emin/Em	1:2.92 (0.34)
Diversity Ud	Emin/Emax	1:9.55 (0.1)

Type No.\Make

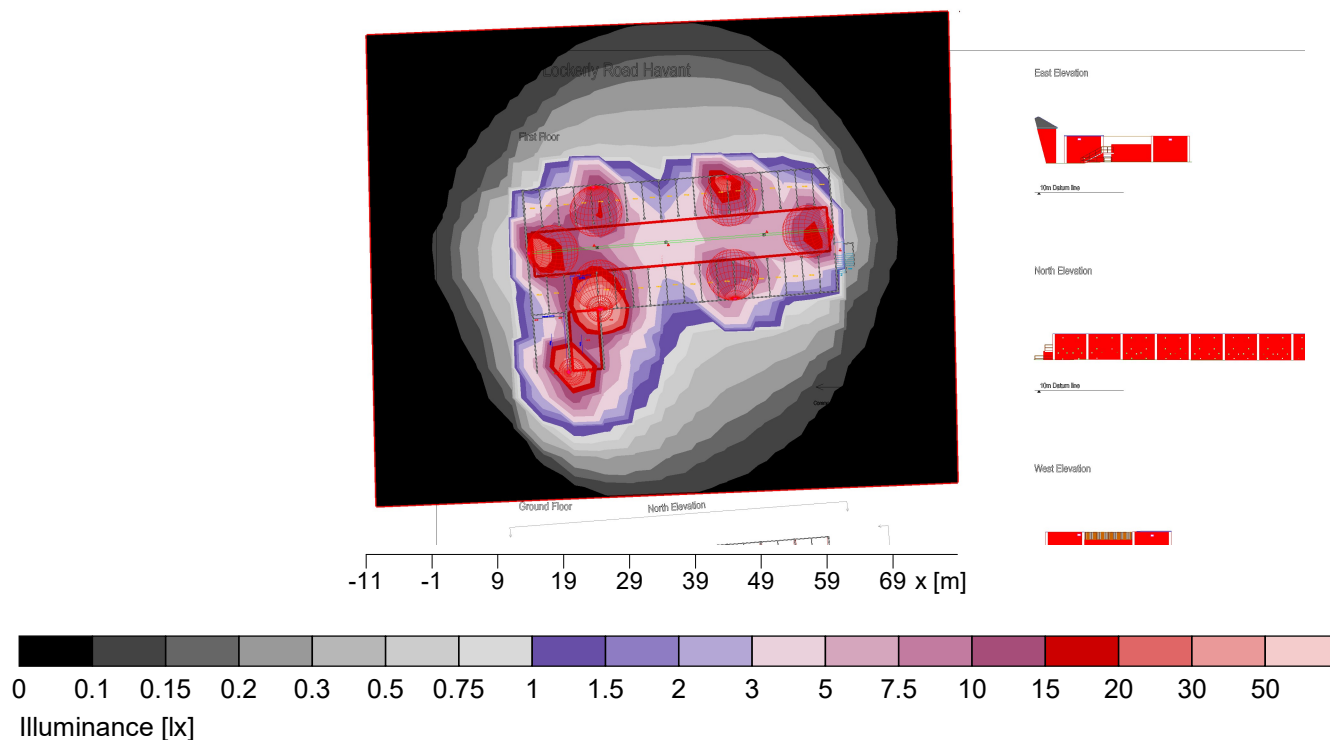


Steon Lighting

Order No.	: 75-262-460-502
Luminaire name	: Bank FL Midi 14W LED - 5700K
Equipment	: 1 x 14W 14.5 W / 2840 lm

1.1 Summary, Exterior 1

1.1.3 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height (phot centre)	4.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	22720.00 lm
Total power	116.0 W
Total power per area (6302.74 m ²)	0.02 W/m ² (0.97 W/m ² /100lx)

Evaluation area 1

User profile

Reference plane 1.1

Parking areas

5.9.1 (EN 12464-2, 05.2014) Light traffic, e.g. parking areas of shops, terraced and apartment houses; cycle parks (Ra >20.00)

Horizontal

Em	1.89 lx	(>= 5 lx)
Emin	0.02 lx	
Emin/Em (Uo)	0.01	(>= 0.25)
Emin/Emax (Ud)	0.00	
Position	0.00 m	

Type No. Make



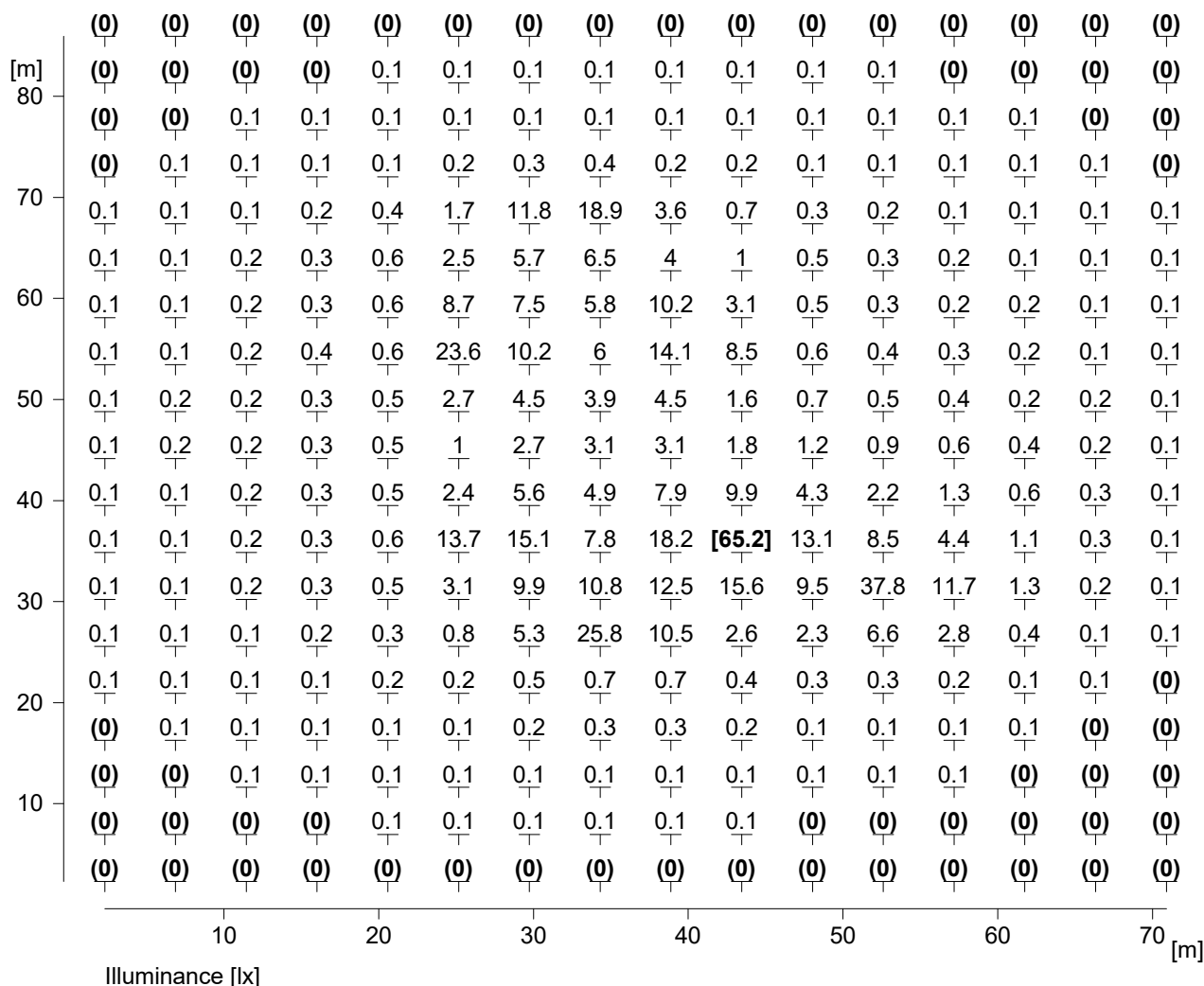
Steon Lighting

Order No. : 75-262-460-502
 Luminaire name : Bank FL Midi 14W LED - 5700K
 Equipment : 1 x 14W 14.5 W / 2840 lm

1 Exterior 1

1.2 Calculation results, Exterior 1

1.2.1 Table, Reference plane 1.1 (E)



Height reference plane	: 0.00 m
Average illuminance	Em : 1.9 lx
Minimum illuminance	Emin : 0 lx
Maximum illuminance	Emax : 65.2 lx
Uniformity Uo	Emin/Em : 1 : 96.53 (0.01)
Diversity Ud	Emin/Emax : 1 : 3328.57 (0.00)
Coefficient of Variation	CV : 16.70