

BELLE VUE CO-OP ACADEMY

Installation : EXTERNAL LIGHTING

Project number : C4C23598

Customer :

Processed by : Whitecroft Lighting

Date : 10.03.2021

Project description:

DESIGN PARAMETERS ADHERED TO:

CDM 2015 - Designers Risk Assessment:

Throughout the design process, consideration has been made for the installation, maintenance, use and decommissioning phases of the project. By adopting a best practice approach, it is judged that any inherent risks associated with the design of lighting systems are suitably mitigated. Through this process, no unusual or significant risks have been identified.

However, it should still be noted that:

- Installation of lighting and any associated systems may involve working at height. Contractor to prepare appropriate Risk assessment and method statements to establish safe method of works.
- Installation of electrical services to lighting. Contractor to prepare appropriate Risk assessment and method statements to establish safe method of works. Only demonstrably competent and qualified personnel to undertake electrical installation and testing.
- Installation of lighting equipment should adhere to the product specific installation details provided in order to ensure compliance with the requirements of BS EN 60598.

Lighting Design Calculations:

The information contained within this document may not necessarily convey all the required details, as such should be read in conjunction with all other documentation and/or drawings provided as part of Whitecroft Lighting's design submissions.

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 Luminaire data

1.1 Whitecroft Lighting, SPECTRE WX (SPXAH14K)

1.1.1 Data sheet

Manufacturer: Whitecroft Lighting



SPXAH14K wall-mounted luminaire **SPECTRE WX**
SPECTRE WX

IP65 wall mounted LED semi-conical luminaire with forward throw. Die cast aluminium body with thermal shock resistant clear tempered glass. Includes first fix wall mounting bracket.

Emergency Lumens:- 704lm

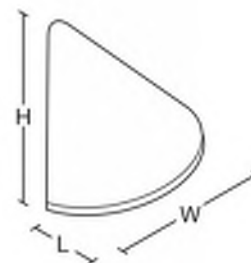
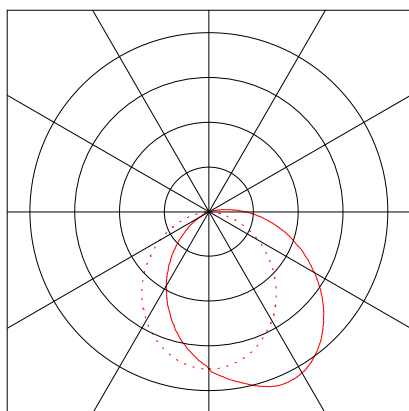
Luminaire data

Absolute Photometry
 Luminaire efficacy : 124.31 lm/W
 Classification : A40 ↓98.1% ↑1.9%
 CIE Flux Codes : 47 77 93 98 100
 UGR 4H 8H : 30.7 / 24.0
 Control gear : electronic ballast
 Power : 9 W
 Luminous flux : 1118.8 lm

Equipped with

Quantity : 1
 Designation : LED
 Colour : 4000K
 Colour reproduction : 80

Dimensions : 375 mm x 224 mm x 329 mm



1 Luminaire data

1.2 Whitecroft Lighting, SIROCCO PARK (SIPAHE14K)

1.2.1 Data sheet

Manufacturer: Whitecroft Lighting



SIPAHE14K Wall / pole mounted luminaire SIROCCO PARK
SIROCCO PARK IP66 LED ASYMMETRIC

ultra slim post top lantern with asymmetric distribution and zero upward light. Die cast aluminium body with integrated cooling fins and thermal shock resistant clear tempered glass. Electronic control gear with voltage surge protection and insulated safety switch. With 60mm diameter spigot for post top or side entry column mounting. Optional wall mounting bracket (order separately).

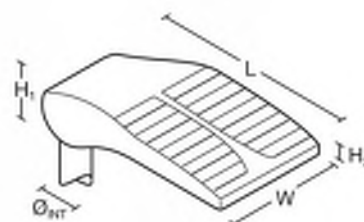
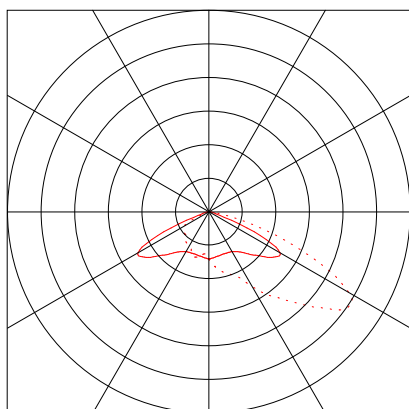
Luminaire data

Absolute Photometry
 Luminaire efficacy : 143.74 lm/W
 Classification : A30 ↓ 100.0% ↑ 0.0%
 CIE Flux Codes : 27 66 98 100 100
 Glare : G*3 / D5
 Control gear : electronic ballast
 Power : 35 W
 Luminous flux : 5031 lm

Equipped with

Quantity : 1
 Designation : LED
 Colour : 4000K
 Colour reproduction : 80

Dimensions : 530 mm x 280 mm x 156 mm



1 Luminaire data

1.3 Whitecroft Lighting, SIROCCO PARK (SIPSHE14K)

1.3.1 Data sheet

Manufacturer: Whitecroft Lighting



SIPSHE14K Wall / pole mounted luminaire SIROCCO PARK
 SIROCCO PARK IP66 LED SYMMETRIC WIDE

ultra slim post top lantern with symmetrical distribution and zero upward light. Die cast aluminium body with integrated cooling fins and thermal shock resistant clear tempered glass. Electronic control gear with voltage surge protection and insulated safety switch. With 60mm diameter spigot for post top or side entry column mounting. Optional wall mounting bracket (order separately).

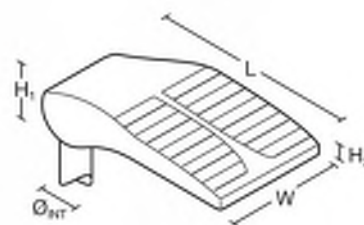
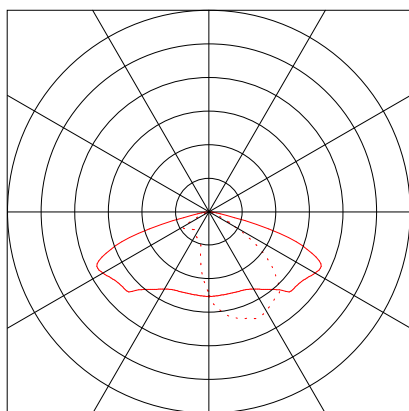
Luminaire data

Absolute Photometry
 Luminaire efficacy : 148.86 lm/W
 Classification : A30 ↓ 100.0% ↑ 0.0%
 CIE Flux Codes : 37 74 98 100 100
 Glare : G*4 / D6
 Control gear : electronic ballast
 Power : 35 W
 Luminous flux : 5210 lm

Equipped with

Quantity : 1
 Designation : LED
 Colour : 4000K
 Colour reproduction : 80

Dimensions : 530 mm x 280 mm x 156 mm



1 Luminaire data

1.4 Whitecroft Lighting, SELISE MAXI (SEMH44KG)

1.4.1 Data sheet

Manufacturer: Whitecroft Lighting



SEMH44KG EXTERIOR SELISE MAXI

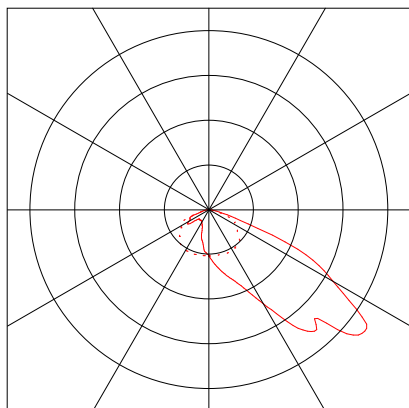
Luminaire data

Luminaire efficiency : 100%
 Luminaire efficacy : 85.94 lm/W
 Classification : A30 ↓100.0% ↑0.0%
 CIE Flux Codes : 37 79 99 100 100
 UGR 4H 8H : 38.6 / 30.9
 Control gear : electronic ballast
 Power : 419 W
 Luminous flux : 36009 lm

Equipped with

Quantity : 1
 Designation : LED
 Power : 419 W
 Colour : 4000K
 Luminous flux : 36009 lm
 Colour reproduction : 1B

Dimensions : Ø512 mm x 160 mm




Version	Ø	H	W	W ₁	KG
101/133/202W	482	477	100	160	13.8
270W	512	524	100	160	14.0
410W	512	524	184	184	17.2

WINDAGE MP: 0.12

1 Luminaire data

1.5 Whitecroft Lighting, ACL INDUSTRY (ACH34K)

1.5.1 Data sheet

Manufacturer: Whitecroft Lighting



ACH34K ceiling mounted luminaire ACL INDUSTRY
ACL INDUSTRY

LED IP66 anti-corrosive luminaire with GRP body with high impact polycarbonate injection moulded opal diffuser.
 High quality seamless gasket for extreme durability

Emergency Lumens:- 653lm

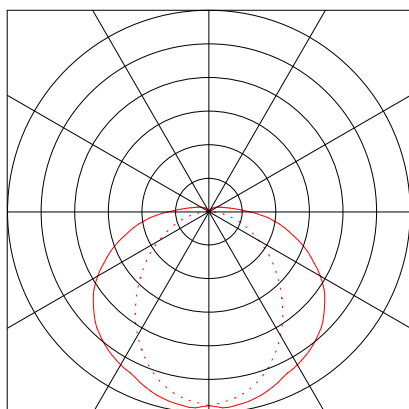
Luminaire data

Absolute Photometry
 Luminaire efficacy : 147.04 lm/W
 Classification : A31 ↓93.6% ↑6.4%
 CIE Flux Codes : 41 71 90 94 100
 UGR 4H 8H : 24.0 / 19.7
 Control gear : electronic ballast
 Power : 27 W
 Luminous flux : 3970 lm

Equipped with

Quantity : 1
 Designation : LED
 Colour : 4000K
 Colour reproduction : 80

Dimensions : 1275 mm x 140 mm x 100 mm



Version	4	10	15	20	25	30
1000, 1000 lumens	1000	1000	1000	1000	1000	1000
2000, 2000 lumens	2000	2000	2000	2000	2000	2000
3000, 3000 lumens	3000	3000	3000	3000	3000	3000

Emergency Lighting

Light source from normal operation with reduced flux

Luminous flux : 653 lm

1 Luminaire data

1.6 Whitecroft Lighting, SIROCCO PARK (SIPAHE24K)

1.6.1 Data sheet

Manufacturer: Whitecroft Lighting



SIPAHE24K Wall / pole mounted luminaire SIROCCO PARK
SIROCCO PARK IP66 LED ASYMMETRIC

ultra slim post top lantern with asymmetric distribution and zero upward light. Die cast aluminium body with integrated cooling fins and thermal shock resistant clear tempered glass. Electronic control gear with voltage surge protection and insulated safety switch. With 60mm diameter spigot for post top or side entry column mounting. Optional wall mounting bracket (order separately).

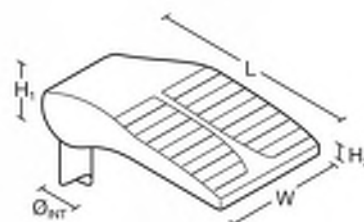
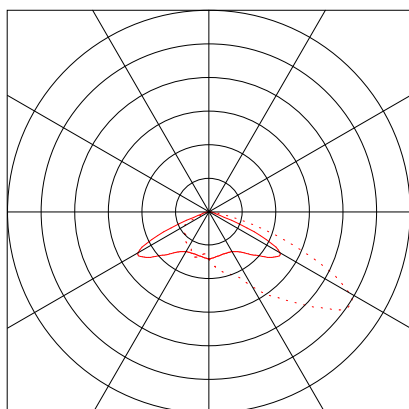
Luminaire data

Absolute Photometry
 Luminaire efficacy : 127.82 lm/W
 Classification : A30 ↓ 100.0% ↑ 0.0%
 CIE Flux Codes : 27 66 98 100 100
 Glare : G*3 / D5
 Control gear : electronic ballast
 Power : 60 W
 Luminous flux : 7669 lm

Equipped with

Quantity : 1
 Designation : LED
 Colour : 4000K
 Colour reproduction : 80

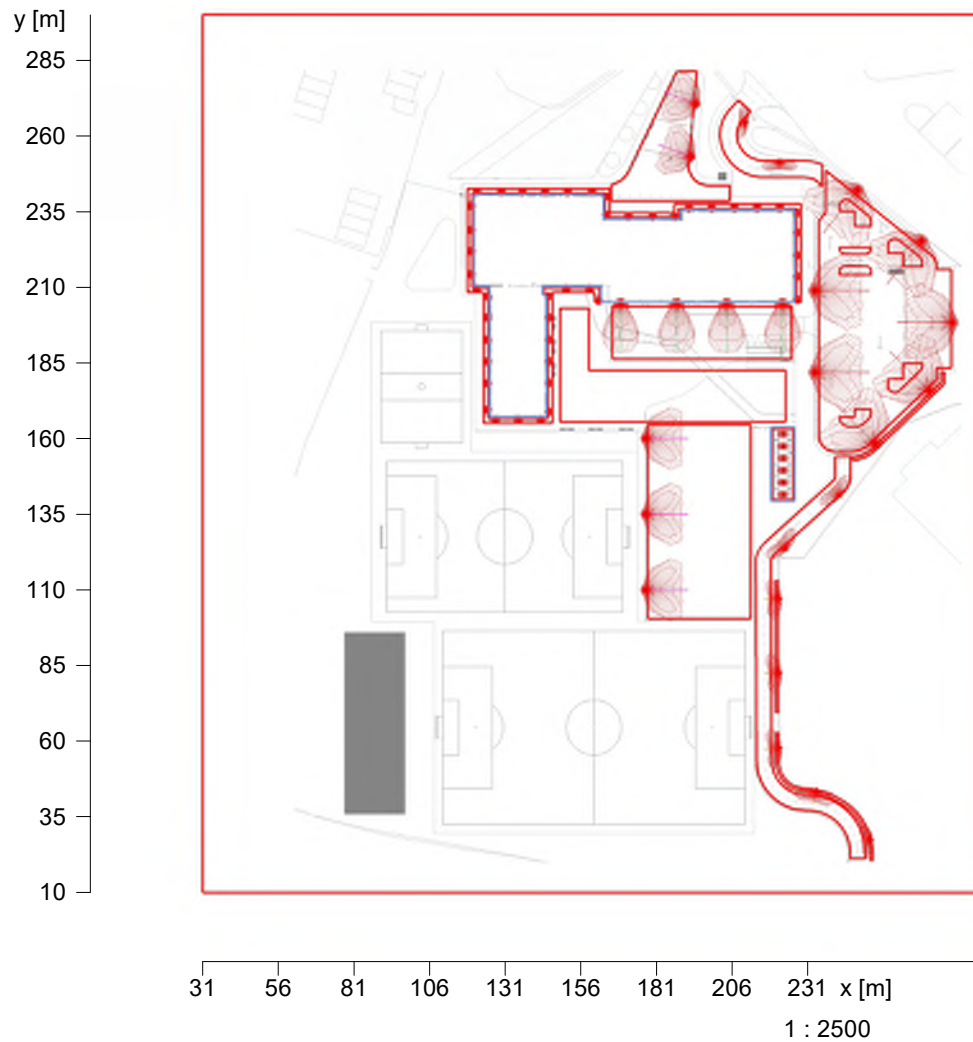
Dimensions : 530 mm x 280 mm x 156 mm



2 EXTERNAL

2.1 Description, EXTERNAL

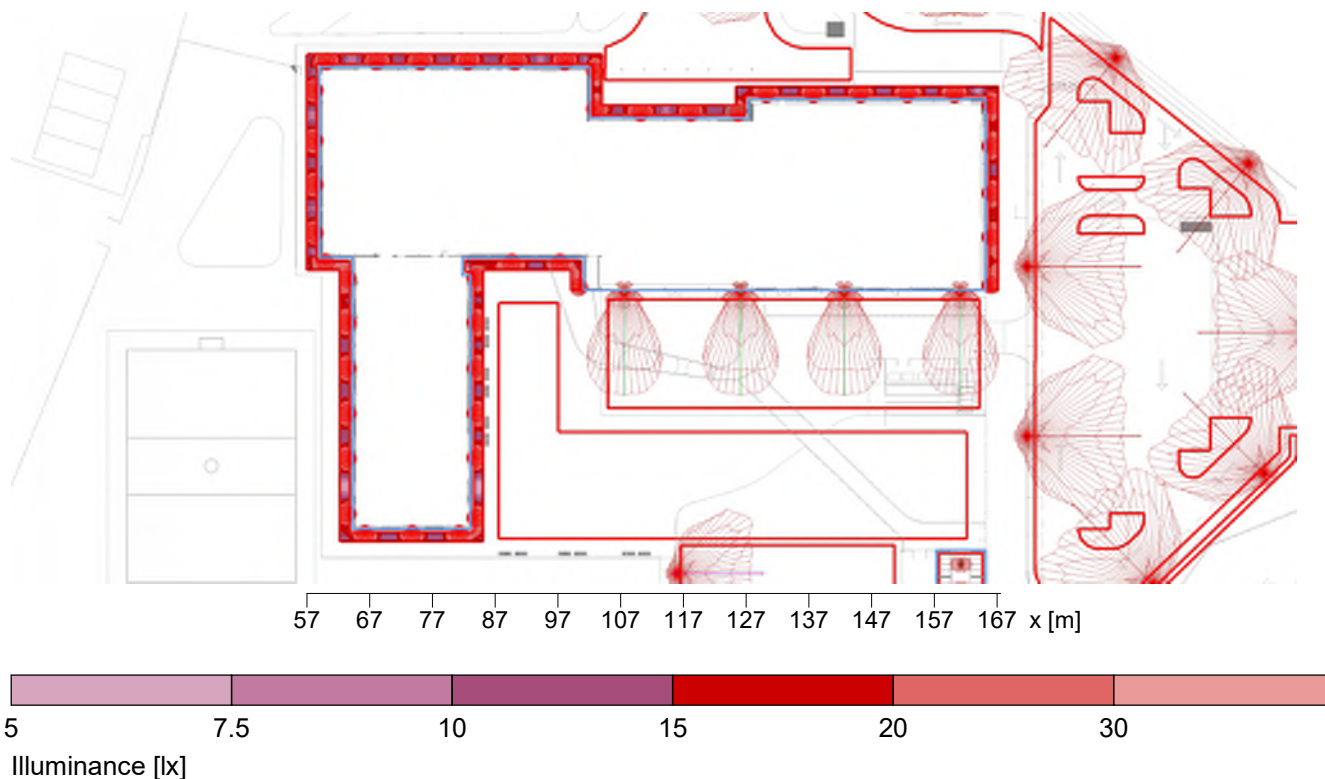
2.1.1 Floor plan



2 EXTERNAL

2.2 Summary, EXTERNAL

2.2.1 Result overview, BUILDING PERIMETER



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80

Total luminous flux of all lamps	342820 lm
Total power	3144 W
Total power per area (74965.00 m ²)	0.04 W/m ²

Illuminance

Average illuminance	Em	22 lx
Minimum illuminance	Emin	6 lx
Maximum illuminance	Emax	42 lx
Uniformity Uo	Emin/Em	1:3.74 (0.27)
Diversity Ud	Emin/Emax	1:7.26 (0.14)

Type No. Make

Whitecroft Lighting	
1 44	Order No. : SPXAH14K
	Luminaire name : SPECTRE WX
	Equipment : 1 x LED 9 W / 1119 lm
2 5	Order No. : SIPAHE14K
	Luminaire name : SIROCCO PARK
	Equipment : 1 x LED 35 W / 5031 lm

Object : BELLE VUE CO-OP ACADEMY
Installation : EXTERNAL LIGHTING
Project number : C4C23598
Date : 10.03.2021



2 EXTERNAL

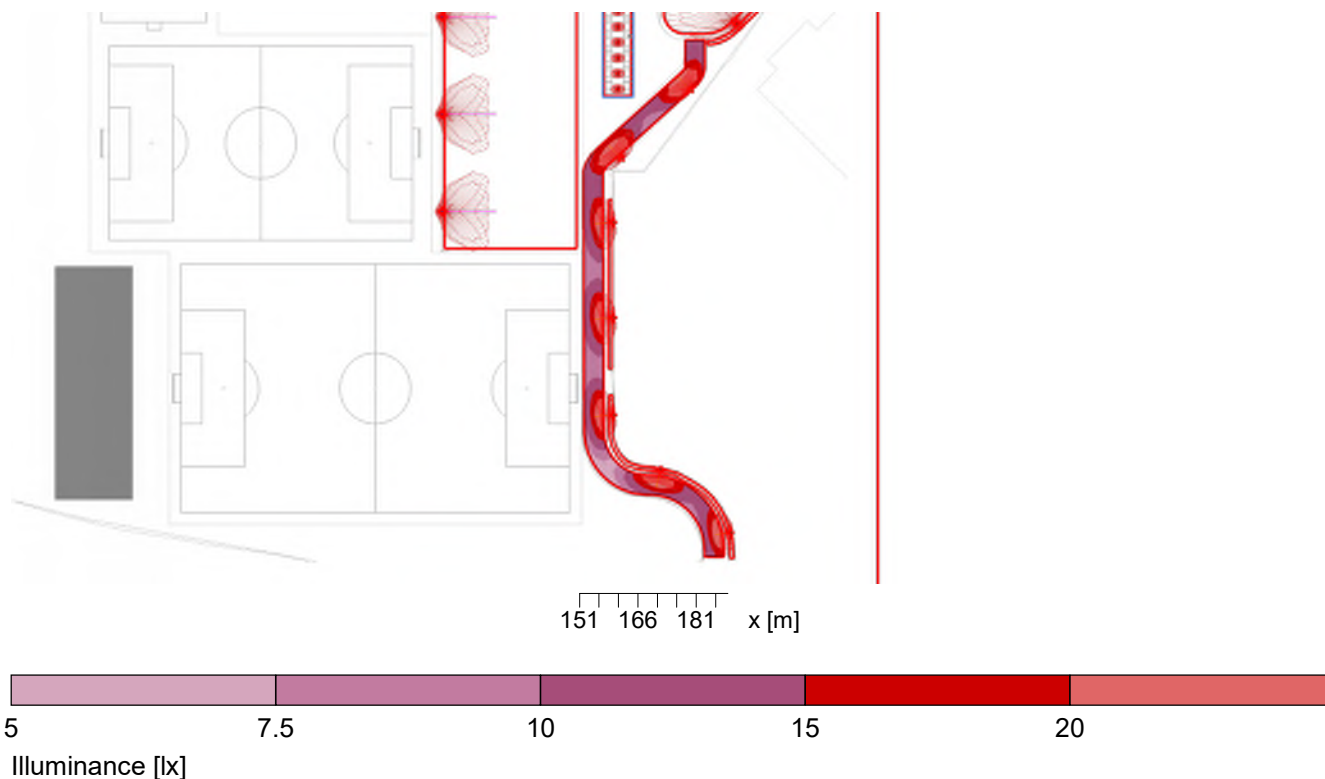
2.2 Summary, EXTERNAL

2.2.1 Result overview, BUILDING PERIMETER

3	9	Order No.	: SIPSHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5210 lm
4	4	Order No.	: SEMH44KG
		Luminaire name	: SELISE MAXI
		Equipment	: 1 x LED 419 W / 36009 lm
5	6	Order No.	: ACH34K
		Luminaire name	: ACL INDUSTRY
		Equipment	: 1 x LED 27 W / 3970 lm
6	7	Order No.	: SIPAHE24K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 60 W / 7669 lm

2.2 Summary, EXTERNAL

2.2.2 Result overview, ACCESS ROAD



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	342820 lm
Total power	3144 W
Total power per area (74965.00 m ²)	0.04 W/m ²

Illuminance

Average illuminance	Em	14 lx
Minimum illuminance	Emin	6 lx
Maximum illuminance	Emax	29 lx
Uniformity Uo	Emin/Em	1:2.28 (0.44)
Diversity Ud	Emin/Emax	1:4.59 (0.22)

Type No. Make

Whitecroft Lighting		
1	44	Order No. : SPXAH14K
		Luminaire name : SPECTRE WX
		Equipment : 1 x LED 9 W / 1119 lm
2	5	Order No. : SIPAHE14K
		Luminaire name : SIROCCO PARK
		Equipment : 1 x LED 35 W / 5031 lm

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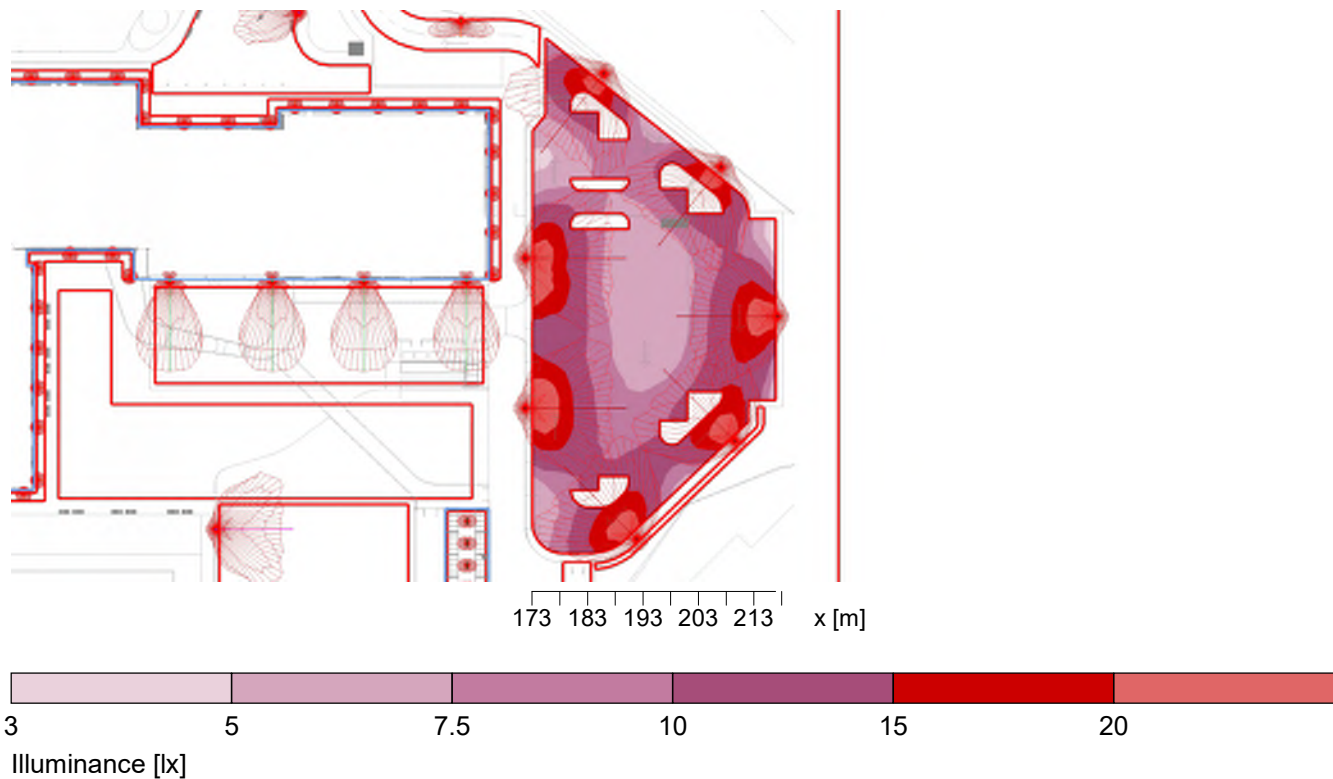
2.2 Summary, EXTERNAL

2.2.2 Result overview, ACCESS ROAD

3	9	Order No.	: SIPSHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5210 lm
4	4	Order No.	: SEMH44KG
		Luminaire name	: SELISE MAXI
		Equipment	: 1 x LED 419 W / 36009 lm
5	6	Order No.	: ACH34K
		Luminaire name	: ACL INDUSTRY
		Equipment	: 1 x LED 27 W / 3970 lm
6	7	Order No.	: SIPAHE24K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 60 W / 7669 lm

2.2 Summary, EXTERNAL

2.2.3 Result overview, CAR PARK



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	342820 lm
Total power	3144 W
Total power per area (74965.00 m ²)	0.04 W/m ²

Illuminance

Average illuminance	Em	11 lx
Minimum illuminance	Emin	4 lx
Maximum illuminance	Emax	26 lx
Uniformity Uo	Emin/Em	1:2.67 (0.37)
Diversity Ud	Emin/Emax	1:6.58 (0.15)

Type No. Make

Whitecroft Lighting		
1	44	Order No. : SPXAH14K
		Luminaire name : SPECTRE WX
		Equipment : 1 x LED 9 W / 1119 lm
2	5	Order No. : SIPAHE14K
		Luminaire name : SIROCCO PARK
		Equipment : 1 x LED 35 W / 5031 lm

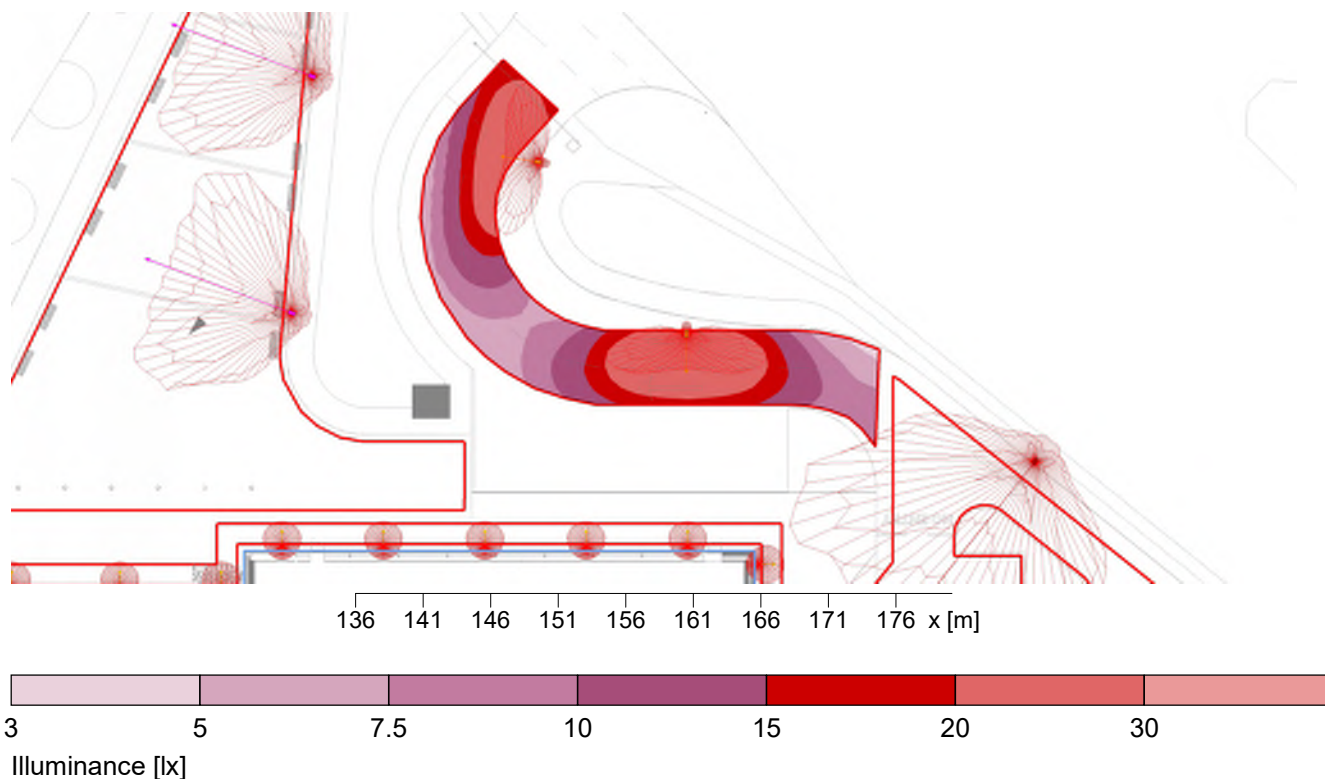
2.2 Summary, EXTERNAL

2.2.3 Result overview, CAR PARK

3	9	Order No.	: SIPSHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5210 lm
4	4	Order No.	: SEMH44KG
		Luminaire name	: SELISE MAXI
		Equipment	: 1 x LED 419 W / 36009 lm
5	6	Order No.	: ACH34K
		Luminaire name	: ACL INDUSTRY
		Equipment	: 1 x LED 27 W / 3970 lm
6	7	Order No.	: SIPAHE24K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 60 W / 7669 lm

2.2 Summary, EXTERNAL

2.2.4 Result overview, ACCESS ROAD (1)



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	342820 lm
Total power	3144 W
Total power per area (74965.00 m ²)	0.04 W/m ²

Illuminance

Average illuminance	Em	15 lx
Minimum illuminance	Emin	4 lx
Maximum illuminance	Emax	36 lx
Uniformity Uo	Emin/Em	1:3.6 (0.28)
Diversity Ud	Emin/Emax	1:8.37 (0.12)

Type No.\Make

Whitecroft Lighting		
1	44	Order No. : SPXAH14K
		Luminaire name : SPECTRE WX
		Equipment : 1 x LED 9 W / 1119 lm
2	5	Order No. : SIPAHE14K
		Luminaire name : SIROCCO PARK
		Equipment : 1 x LED 35 W / 5031 lm

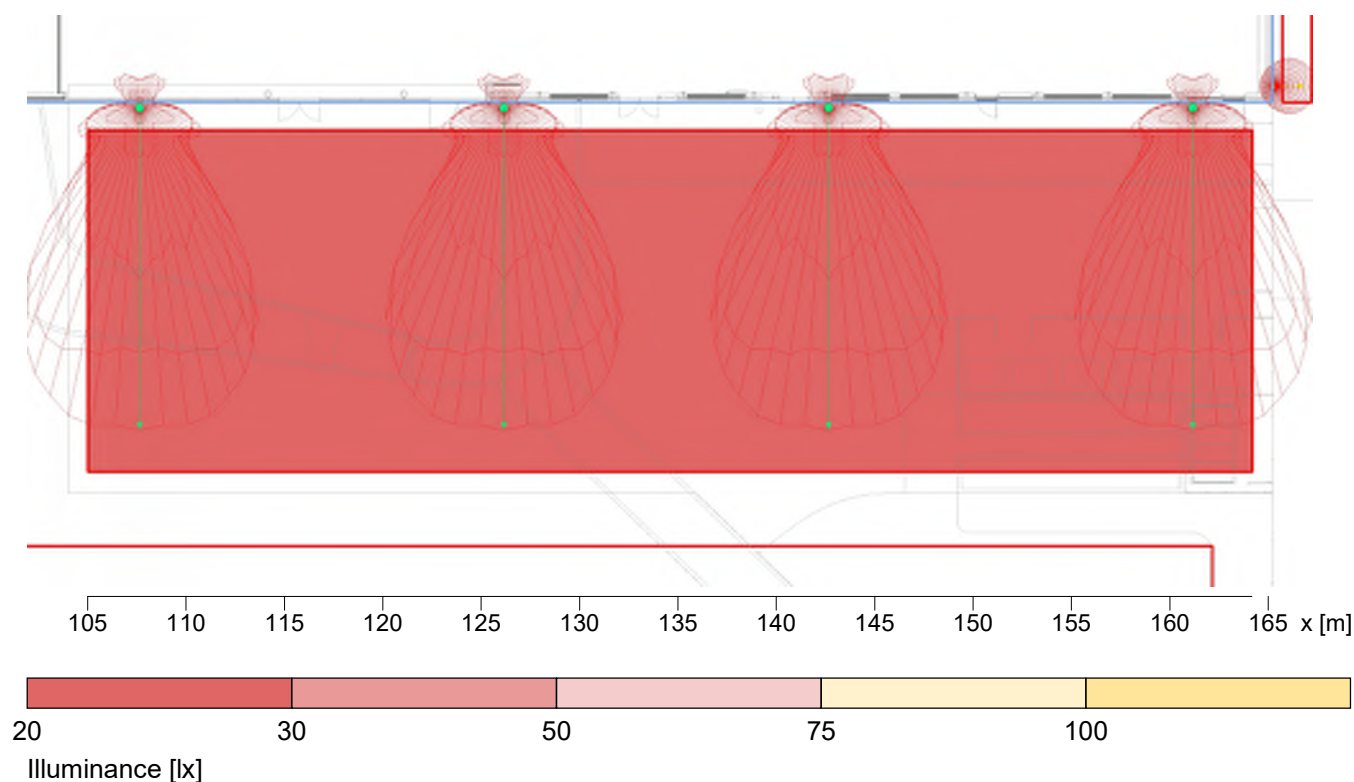
2.2 Summary, EXTERNAL

2.2.4 Result overview, ACCESS ROAD (1)

3	9	Order No.	: SIPSHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5210 lm
4	4	Order No.	: SEMH44KG
		Luminaire name	: SELISE MAXI
		Equipment	: 1 x LED 419 W / 36009 lm
5	6	Order No.	: ACH34K
		Luminaire name	: ACL INDUSTRY
		Equipment	: 1 x LED 27 W / 3970 lm
6	7	Order No.	: SIPAHE24K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 60 W / 7669 lm

2.2 Summary, EXTERNAL

2.2.5 Result overview, SERVICE YARD



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	342820 lm
Total power	3144 W
Total power per area (74965.00 m ²)	0.04 W/m ²

Illuminance

Average illuminance	Em	62 lx
Minimum illuminance	Emin	27 lx
Maximum illuminance	Emax	129 lx
Uniformity Uo	Emin/Em	1:2.28 (0.44)
Diversity Ud	Emin/Emax	1:4.74 (0.21)

Type No.\Make

Whitecroft Lighting		
1	44	Order No. : SPXAH14K
		Luminaire name : SPECTRE WX
		Equipment : 1 x LED 9 W / 1119 lm
2	5	Order No. : SIPAHE14K
		Luminaire name : SIROCCO PARK
		Equipment : 1 x LED 35 W / 5031 lm

Object : BELLE VUE CO-OP ACADEMY
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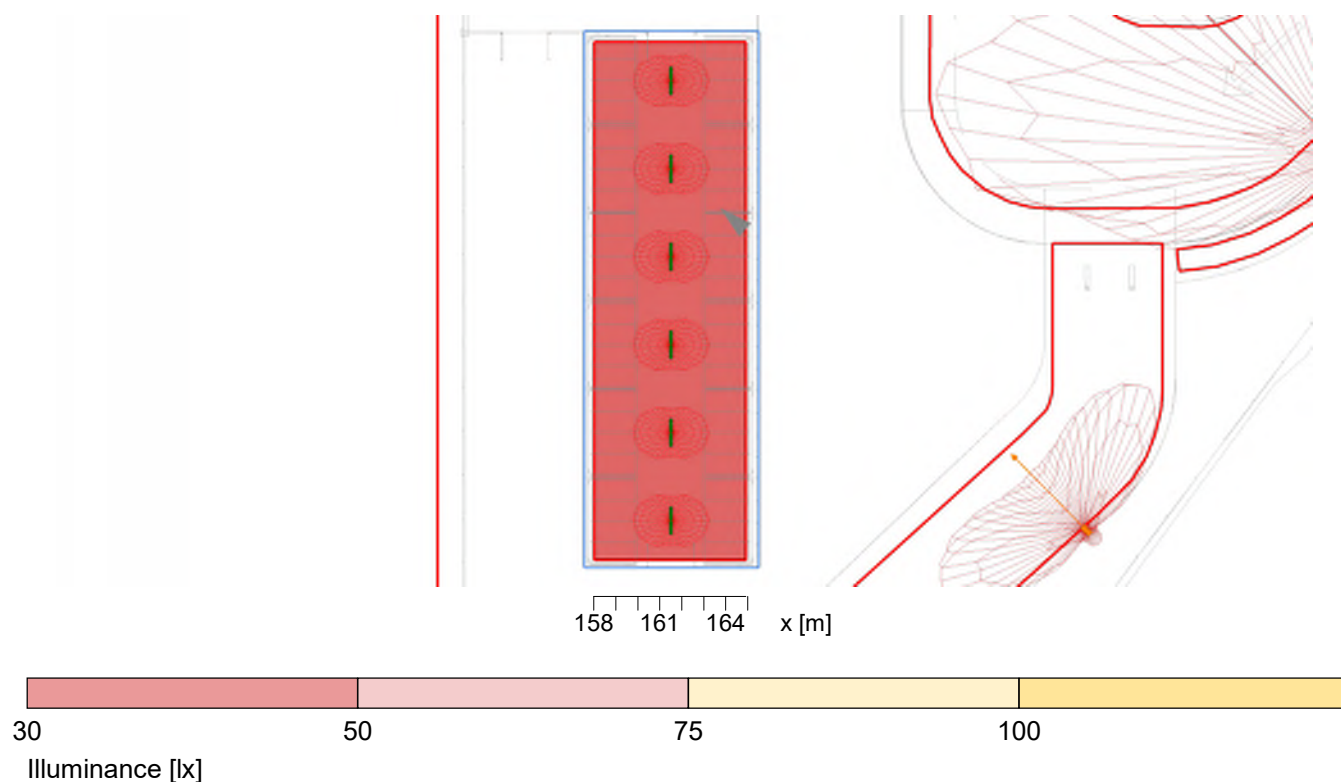
2.2 Summary, EXTERNAL

2.2.5 Result overview, SERVICE YARD

3	9	Order No.	: SIPSHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5210 lm
4	4	Order No.	: SEMH44KG
		Luminaire name	: SELISE MAXI
		Equipment	: 1 x LED 419 W / 36009 lm
5	6	Order No.	: ACH34K
		Luminaire name	: ACL INDUSTRY
		Equipment	: 1 x LED 27 W / 3970 lm
6	7	Order No.	: SIPAHE24K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 60 W / 7669 lm

2.2 Summary, EXTERNAL

2.2.6 Result overview, CYCLE SHELTER



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	342820 lm
Total power	3144 W
Total power per area (74965.00 m ²)	0.04 W/m ²

Illuminance

Average illuminance	Em	74 lx
Minimum illuminance	Emin	32 lx
Maximum illuminance	Emax	121 lx
Uniformity Uo	Emin/Em	1:2.3 (0.43)
Diversity Ud	Emin/Emax	1:3.74 (0.27)

Type No. Make

Whitecroft Lighting		
1	44	Order No. : SPXAH14K
		Luminaire name : SPECTRE WX
		Equipment : 1 x LED 9 W / 1119 lm
2	5	Order No. : SIPAHE14K
		Luminaire name : SIROCCO PARK
		Equipment : 1 x LED 35 W / 5031 lm

Object : BELLE VUE CO-OP ACADEMY
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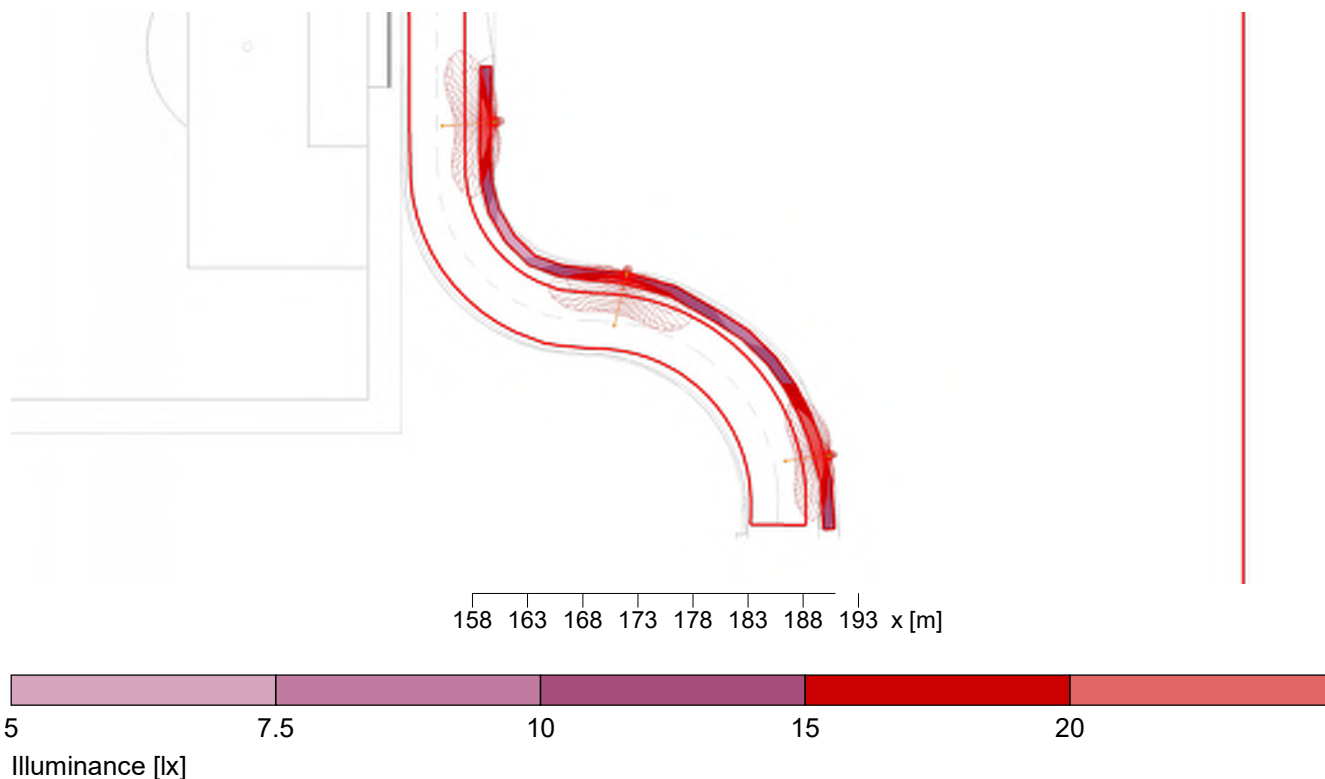
2.2 Summary, EXTERNAL

2.2.6 Result overview, CYCLE SHELTER

3	9	Order No.	: SIPSHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5210 lm
4	4	Order No.	: SEMH44KG
		Luminaire name	: SELISE MAXI
		Equipment	: 1 x LED 419 W / 36009 lm
5	6	Order No.	: ACH34K
		Luminaire name	: ACL INDUSTRY
		Equipment	: 1 x LED 27 W / 3970 lm
6	7	Order No.	: SIPAHE24K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 60 W / 7669 lm

2.2 Summary, EXTERNAL

2.2.7 Result overview, PATHWAY (1)



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	342820 lm
Total power	3144 W
Total power per area (74965.00 m ²)	0.04 W/m ²

Illuminance

Average illuminance	Em	14 lx
Minimum illuminance	Emin	6 lx
Maximum illuminance	Emax	26 lx
Uniformity Uo	Emin/Em	1:2.35 (0.43)
Diversity Ud	Emin/Emax	1:4.3 (0.23)

Type No. Make

Whitecroft Lighting		
1	44	Order No. : SPXAH14K
		Luminaire name : SPECTRE WX
		Equipment : 1 x LED 9 W / 1119 lm
2	5	Order No. : SIPAHE14K
		Luminaire name : SIROCCO PARK
		Equipment : 1 x LED 35 W / 5031 lm

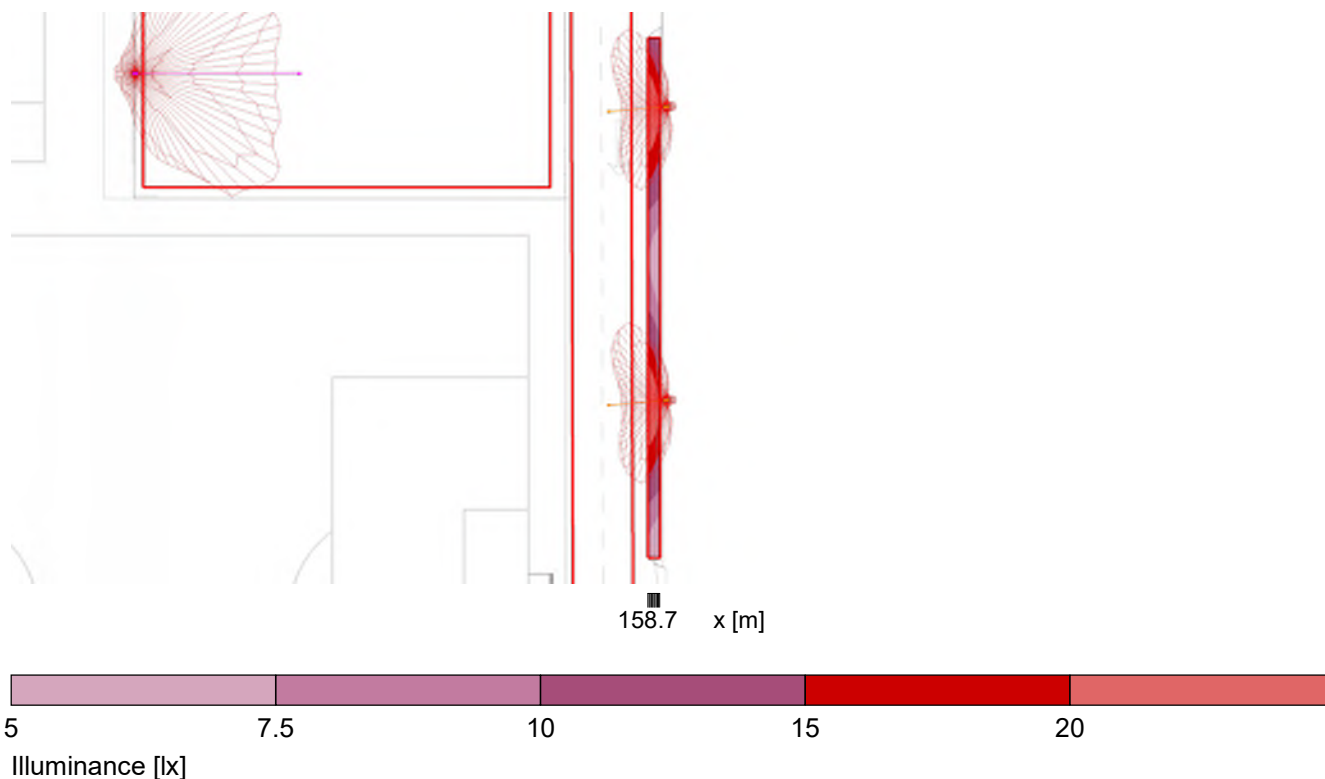
2.2 Summary, EXTERNAL

2.2.7 Result overview, PATHWAY (1)

3	9	Order No.	: SIPSHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5210 lm
4	4	Order No.	: SEMH44KG
		Luminaire name	: SELISE MAXI
		Equipment	: 1 x LED 419 W / 36009 lm
5	6	Order No.	: ACH34K
		Luminaire name	: ACL INDUSTRY
		Equipment	: 1 x LED 27 W / 3970 lm
6	7	Order No.	: SIPAHE24K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 60 W / 7669 lm

2.2 Summary, EXTERNAL

2.2.8 Result overview, PATHWAY (3)



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	342820 lm
Total power	3144 W
Total power per area (74965.00 m ²)	0.04 W/m ²

Illuminance

Average illuminance	Em	13 lx
Minimum illuminance	Emin	6 lx
Maximum illuminance	Emax	26 lx
Uniformity Uo	Emin/Em	1:2.23 (0.45)
Diversity Ud	Emin/Emax	1:4.27 (0.23)

Type No. Make

Whitecroft Lighting		
1	44	Order No. : SPXAH14K
		Luminaire name : SPECTRE WX
		Equipment : 1 x LED 9 W / 1119 lm
2	5	Order No. : SIPAHE14K
		Luminaire name : SIROCCO PARK
		Equipment : 1 x LED 35 W / 5031 lm

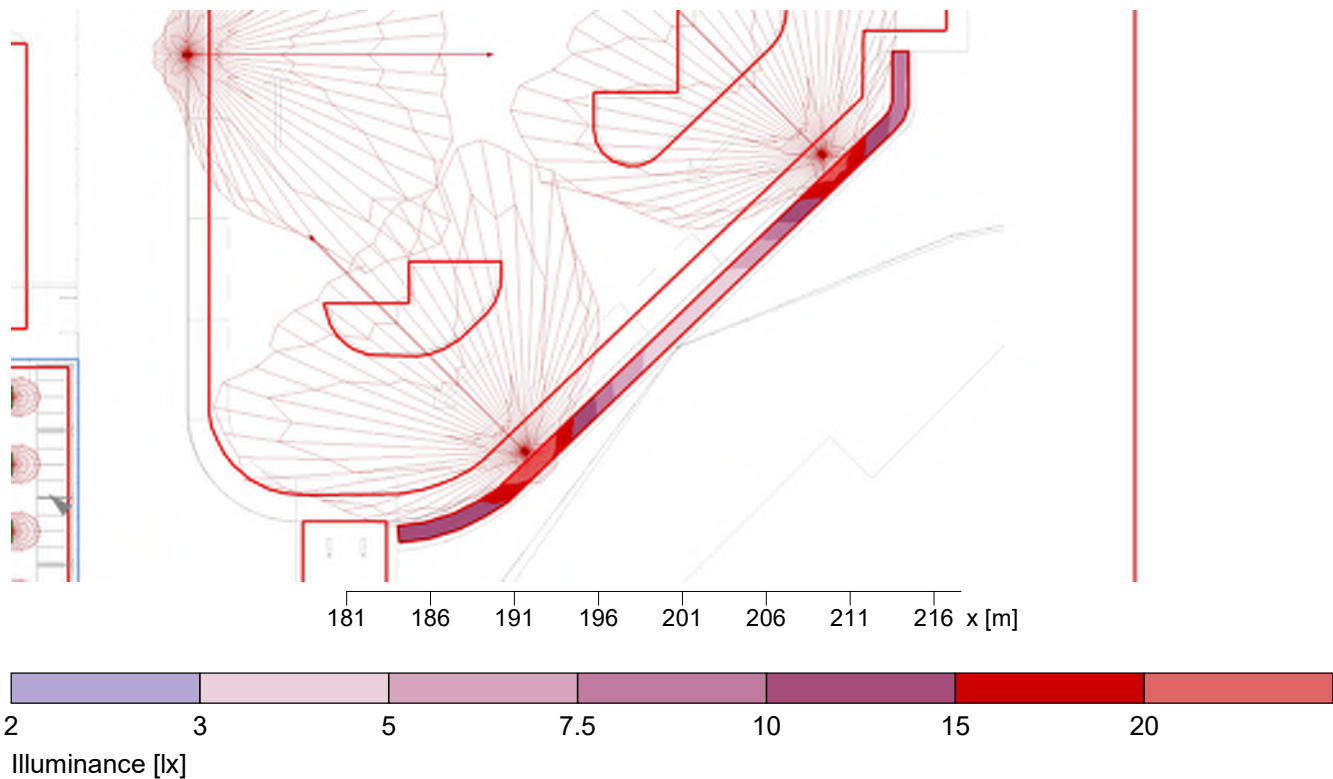
2.2 Summary, EXTERNAL

2.2.8 Result overview, PATHWAY (3)

3	9	Order No.	: SIPSHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5210 lm
4	4	Order No.	: SEMH44KG
		Luminaire name	: SELISE MAXI
		Equipment	: 1 x LED 419 W / 36009 lm
5	6	Order No.	: ACH34K
		Luminaire name	: ACL INDUSTRY
		Equipment	: 1 x LED 27 W / 3970 lm
6	7	Order No.	: SIPAHE24K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 60 W / 7669 lm

2.2 Summary, EXTERNAL

2.2.9 Result overview, PATHWAY (2)



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	342820 lm
Total power	3144 W
Total power per area (74965.00 m ²)	0.04 W/m ²

Illuminance

Average illuminance	Em	11 lx
Minimum illuminance	Emin	3 lx
Maximum illuminance	Emax	25 lx
Uniformity Uo	Emin/Em	1:3.67 (0.27)
Diversity Ud	Emin/Emax	1:8.46 (0.12)

Type No.\Make

Whitecroft Lighting		
1	44	Order No. : SPXAH14K
		Luminaire name : SPECTRE WX
		Equipment : 1 x LED 9 W / 1119 lm
2	5	Order No. : SIPAHE14K
		Luminaire name : SIROCCO PARK
		Equipment : 1 x LED 35 W / 5031 lm

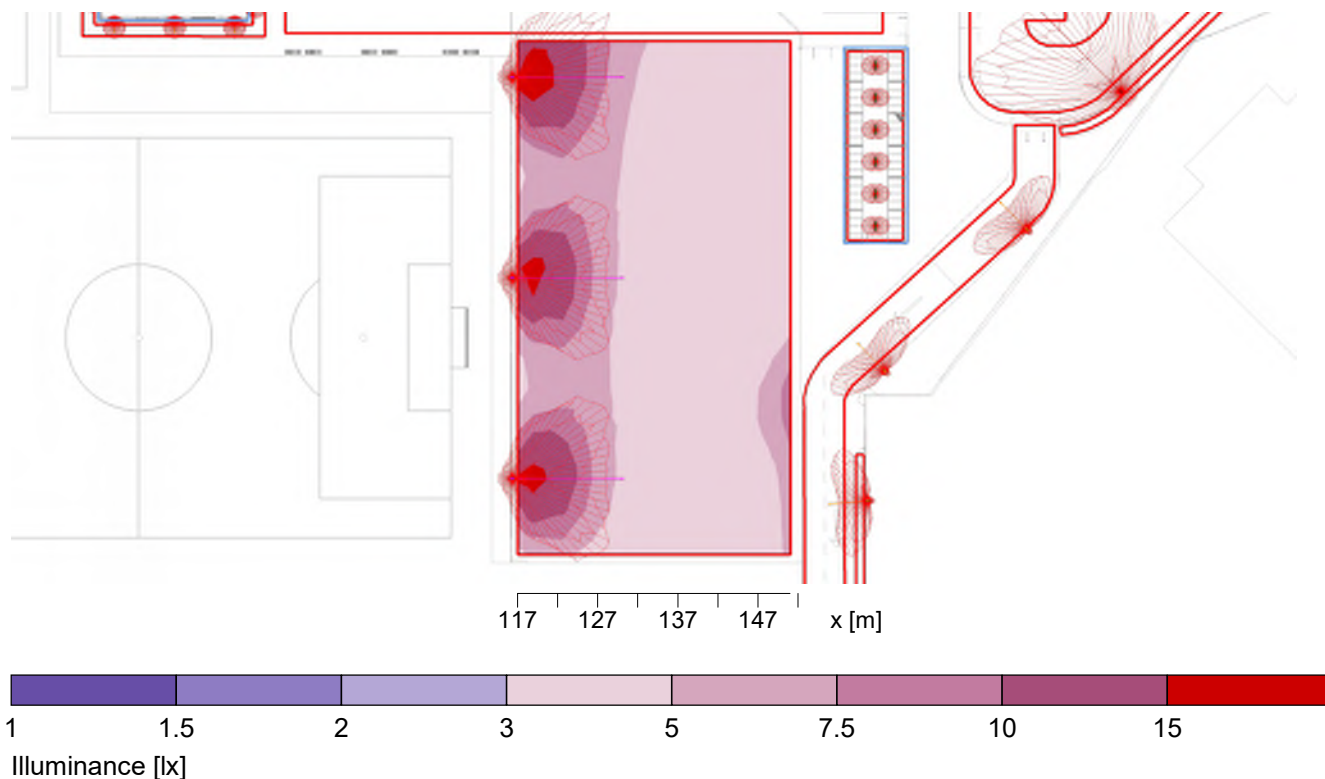
2.2 Summary, EXTERNAL

2.2.9 Result overview, PATHWAY (2)

3	9	Order No.	: SIPSHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5210 lm
4	4	Order No.	: SEMH44KG
		Luminaire name	: SELISE MAXI
		Equipment	: 1 x LED 419 W / 36009 lm
5	6	Order No.	: ACH34K
		Luminaire name	: ACL INDUSTRY
		Equipment	: 1 x LED 27 W / 3970 lm
6	7	Order No.	: SIPAHE24K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 60 W / 7669 lm

2.2 Summary, EXTERNAL

2.2.10 Result overview, MUGA - 10lx/0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	342820 lm
Total power	3144 W
Total power per area (74965.00 m ²)	0.04 W/m ²

Illuminance

Average illuminance	Em	5 lx
Minimum illuminance	Emin	1 lx
Maximum illuminance	Emax	17 lx
Uniformity Uo	Emin/Em	1:3.73 (0.27)
Diversity Ud	Emin/Emax	1:13.1 (0.08)

Type No.\Make

Whitecroft Lighting		
1	44	Order No. : SPXAH14K
		Luminaire name : SPECTRE WX
		Equipment : 1 x LED 9 W / 1119 lm
2	5	Order No. : SIPAHE14K
		Luminaire name : SIROCCO PARK
		Equipment : 1 x LED 35 W / 5031 lm

Object : BELLE VUE CO-OP ACADEMY
 Installation : EXTERNAL LIGHTING
 Project number : C4C23598
 Date : 10.03.2021



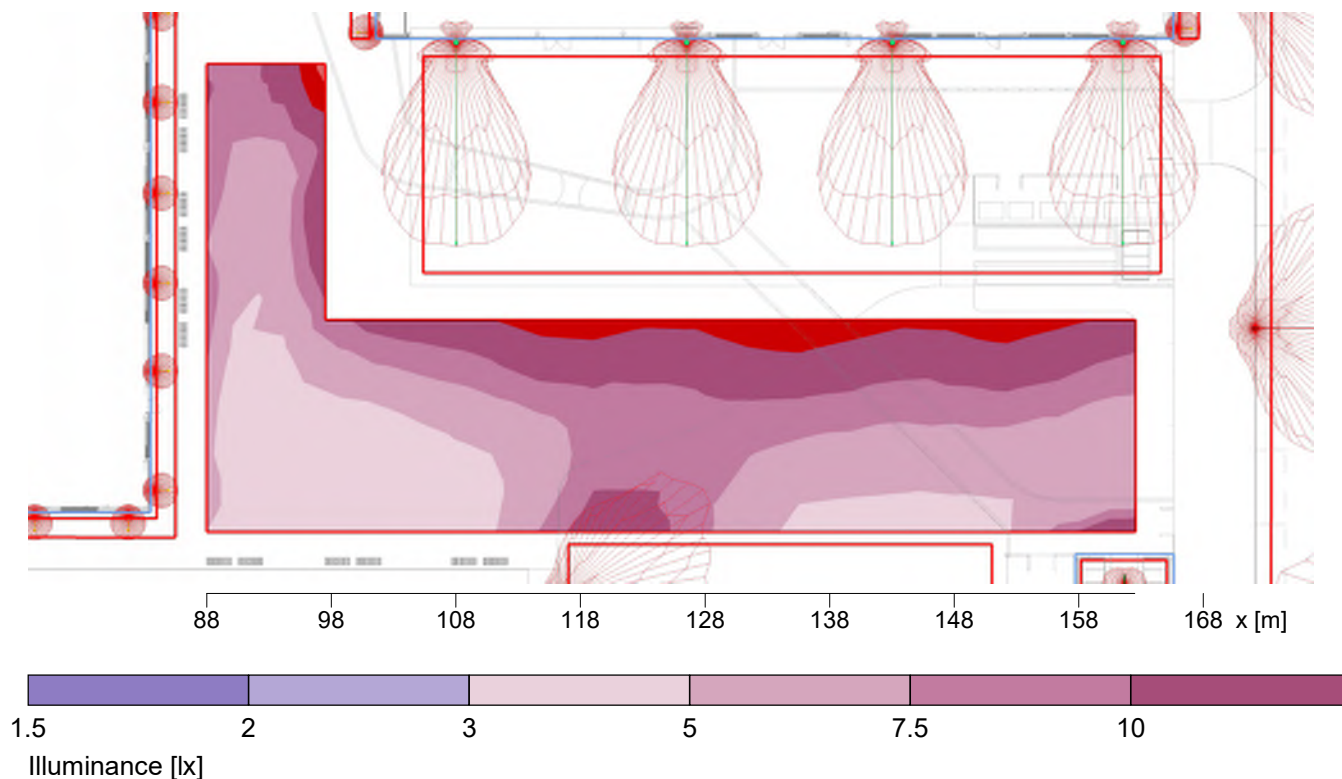
2.2 Summary, EXTERNAL

2.2.10 Result overview, MUGA - 10lx/0.25Uo

3	9	Order No.	: SIPSHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5210 lm
4	4	Order No.	: SEMH44KG
		Luminaire name	: SELISE MAXI
		Equipment	: 1 x LED 419 W / 36009 lm
5	6	Order No.	: ACH34K
		Luminaire name	: ACL INDUSTRY
		Equipment	: 1 x LED 27 W / 3970 lm
6	7	Order No.	: SIPAHE24K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 60 W / 7669 lm

2.2 Summary, EXTERNAL

2.2.11 Result overview, WALKWAY (1)



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (74965.00 m²)

342820 lm
 3144 W
 0.04 W/m²

Illuminance

Average illuminance	Em	7 lx
Minimum illuminance	Emin	2 lx
Maximum illuminance	Emax	15 lx
Uniformity Uo	Emin/Em	1:3.77 (0.26)
Diversity Ud	Emin/Emax	1:7.79 (0.13)

Type No. Make

		Whitecroft Lighting	
1	44	Order No.	: SPXAH14K
		Luminaire name	: SPECTRE WX
		Equipment	: 1 x LED 9 W / 1119 lm
2	5	Order No.	: SIPAHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5031 lm

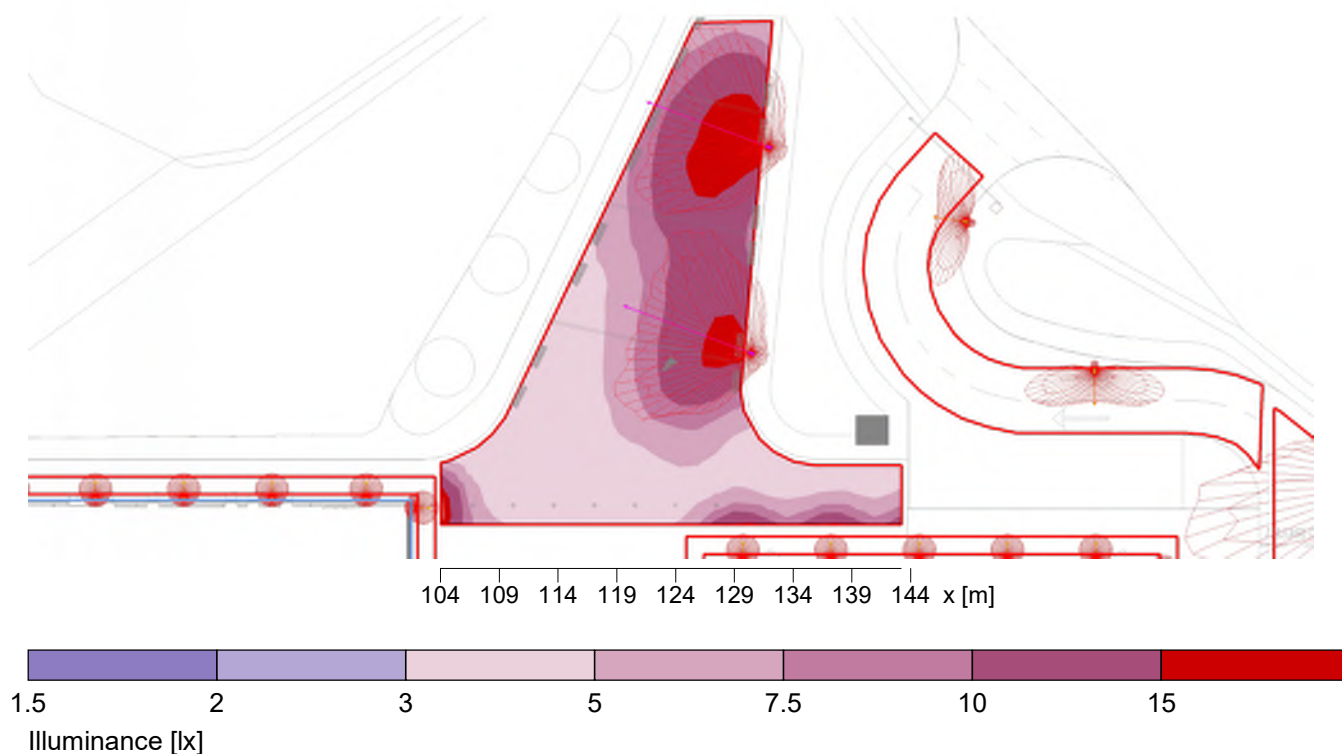
2.2 Summary, EXTERNAL

2.2.11 Result overview, WALKWAY (1)

3	9	Order No.	: SIPSHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5210 lm
4	4	Order No.	: SEMH44KG
		Luminaire name	: SELISE MAXI
		Equipment	: 1 x LED 419 W / 36009 lm
5	6	Order No.	: ACH34K
		Luminaire name	: ACL INDUSTRY
		Equipment	: 1 x LED 27 W / 3970 lm
6	7	Order No.	: SIPAHE24K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 60 W / 7669 lm

2.2 Summary, EXTERNAL

2.2.12 Result overview, WALKWAY (2)



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	-0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	342820 lm
Total power	3144 W
Total power per area (74965.00 m²)	0.04 W/m²

Illuminance

Average illuminance	Em	7 lx
Minimum illuminance	Emin	2 lx
Maximum illuminance	Emax	19 lx
Uniformity Uo	Emin/Em	1:3.8 (0.26)
Diversity Ud	Emin/Emax	1:9.68 (0.1)

Type No. Make

Whitecroft Lighting		
1	44	Order No. : SPXAH14K
		Luminaire name : SPECTRE WX
		Equipment : 1 x LED 9 W / 1119 lm
2	5	Order No. : SIPAHE14K
		Luminaire name : SIROCCO PARK
		Equipment : 1 x LED 35 W / 5031 lm

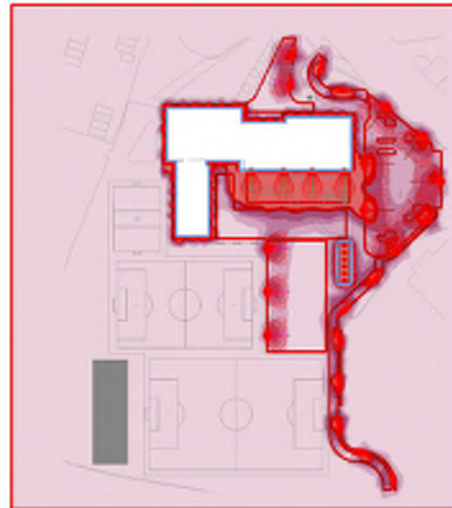
2.2 Summary, EXTERNAL

2.2.12 Result overview, WALKWAY (2)

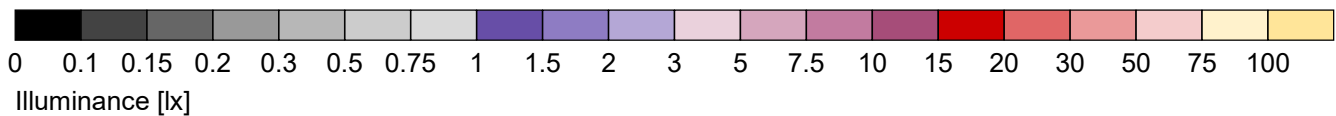
3	9	Order No.	: SIPSHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5210 lm
4	4	Order No.	: SEMH44KG
		Luminaire name	: SELISE MAXI
		Equipment	: 1 x LED 419 W / 36009 lm
5	6	Order No.	: ACH34K
		Luminaire name	: ACL INDUSTRY
		Equipment	: 1 x LED 27 W / 3970 lm
6	7	Order No.	: SIPAHE24K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 60 W / 7669 lm

2.2 Summary, EXTERNAL

2.2.13 Result overview, Evaluation area 1



31 56 81 106 156 206 x [m]



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps

342820.00 lm

Total power

3144.0 W

Total power per area (74965.00 m²)

0.04 W/m² (1.15 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal

Em 4 lx
 Emin 0.0 lx
 Emin/Em (Uo) 0.00
 Emin/Emax (Ud) 0.00
 Position 0.00 m

Type No.\Make

Whitecroft Lighting

1 44



Order No. : SPXAH14K
 Luminaire name : SPECTRE WX
 Equipment : 1 x LED 9 W / 1119 lm

2 5



Order No. : SIPAHE14K
 Luminaire name : SIROCCO PARK
 Equipment : 1 x LED 35 W / 5031 lm

2.2 Summary, EXTERNAL

2.2.13 Result overview, Evaluation area 1

3	9	Order No.	: SIPSHE14K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 35 W / 5210 lm
4	4	Order No.	: SEMH44KG
		Luminaire name	: SELISE MAXI
		Equipment	: 1 x LED 419 W / 36009 lm
5	6	Order No.	: ACH34K
		Luminaire name	: ACL INDUSTRY
		Equipment	: 1 x LED 27 W / 3970 lm
6	7	Order No.	: SIPAHE24K
		Luminaire name	: SIROCCO PARK
		Equipment	: 1 x LED 60 W / 7669 lm

2 EXTERNAL

2.3 Calculation results, EXTERNAL

2.3.1 3D luminance, View from above

