

		TECHNICAL SUBMITTAL		Form No.	F54
				Issue No.	2
				Page	1 of 1
Project No.:	C10179	Project Name:	GMMH - North View		
Date:	14/07/23	Reference:	External Lighting		
Technical Submittal: NMGNPH-CBL-XX-XX-TS-MEP-0025 REV P01					
Description:	External Lighting				
Drawing Reference:		Specification Reference:	-		
The Information Enclosed Within This Technical Submittal Is For:					
Tender		Information		Approval	
☐		☒		☒	
Issued to:					
Principal Contractor	M&E Consultant	Client	Other -		
☒	☐	☒	☐		
Specification Compliance:					
As Specified		Equal or Approved		Alternative	
☒		☐		☐	
Technical Submission:					
025 External Lighting					
Documents Enclosed:					
Calculations document R08 External Lighting Drawing R08					
Submission Date:	14/07/23	Raised By (Name):	Steven Loughhead		
Response required by (Date):	28/07/23				

Response			
A) No Comments	B) Minor Comments	C) Major Comments	D) Rejected
☐	☐	☐	☐
Comments:			
Response Date:		Response Completed By:	
Signed			

P22 MANCHESTER GENERAL HOSP PARK HOUSE

Installation : Externals

Project number : 21084

Customer : Chris Bowker Ltd

Processed by : Whitecroft Lighting Ltd

Date : 17.05.2023

Project description:

Design Parameters Adhered To:

- General Areas: 30% Reflectance
- 0.0m Task Plane
- Calculated Maintenance Factors
- Bulkheads Wall Mounted @ 3m
- Courtyard Floodlights Wall Mounted @ 6m
- Floodlights Supporting Fence Lighting Wall Mounted @ 8m
- Post Top Luminaires Mounted @ 5m

- Rev 4 - Perimeter Lighting revised to be spaced 7.5m apart @3m high in line with fencing details.
 - Kolo IP65 removed replaced with Centurion XW. Install points reduced where possible.
- Rev 5 - Amendments in line with Watermans treatment drawings
 - Perimeter lighting replaced with Centurion L65, target levels reduced to 20lx in normal operation with additional floodlights for the 50lx requirement.
- Rev 6 - All Bollards removed, pathways replaced with 4m Cygnus Post Top luminaires
 - Centurion L65 removed around perimeter of office block and replaced with Spectre WX
 - Floodlights allowed for perimeter fence lighting with additional Centurion L65 to support areas where lighting levels drop off, requirement changed from 20lx to 5lx
- Rev 7 - EXT-3 changed to EXT-4 + Removed fence mounted EXT-1 in courtyards
- Rev 8 - Perimeter lighting and Pathway Bollards added back in.
 - Options added for Centurion PP65 and Kolo Hood

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.

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1 Luminaire data

1.1 Whitecroft Lighting, ACL EXTREME (AXLH214K)

1.1.1 Data sheet

Manufacturer: Whitecroft Lighting



AXLH214K ceiling mounted luminaire ACL EXTREME
ACL EXTREME

IP65 surface mounted LED luminaire for outdoor applications.
 With die cast aluminium body and opal polycarbonate retained diffuser

EMERGENCY - N/A

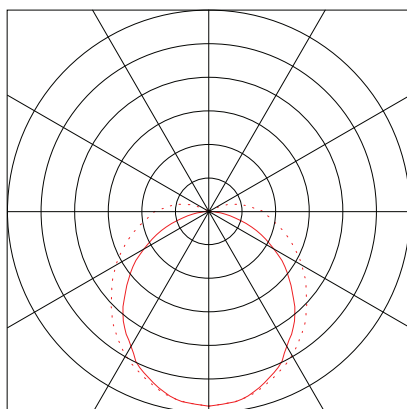
Luminaire data

Luminaire efficiency : 100%
 Luminaire efficacy : 106.48 lm/W
 Classification : A31 ↓93.2% ↑6.8%
 CIE Flux Codes : 42 71 89 93 98
 UGR 4H 8H : 22.0 / 27.3
 Control gear : electronic ballast
 Power : 19 W
 Luminous flux : 2023.1 lm

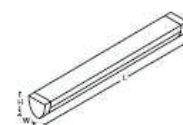
Equipped with

Quantity : 1
 Designation : LED
 Colour : 4000K
 Luminous flux : 2023.1 lm
 Colour reproduction : 80

Dimensions : 115 mm x 640 mm x 88 mm



Dimensions



Version	L	W	H	KG	KG/m
2' - 640mm	640	115	88	3.0	10.0
4' - 1280mm	1280	115	88	5.0	8.7
5' - 1540mm	1540	115	88	7.5	8.7

1 Luminaire data

1.2 Whitecroft Lighting, EUROFLOOD MIDI LED (EFLH24KG)

1.2.1 Data sheet

Manufacturer: Whitecroft Lighting



EFLH24KG EXTERIOR EUROFLOOD MIDI LED

EUROFLOOD MIDI LED IP66 Slimline asymmetric floodlight with diw cast body and 5mm thick thermal shock and impact resistant glass. High quality efficient LED light engine.

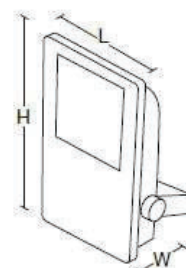
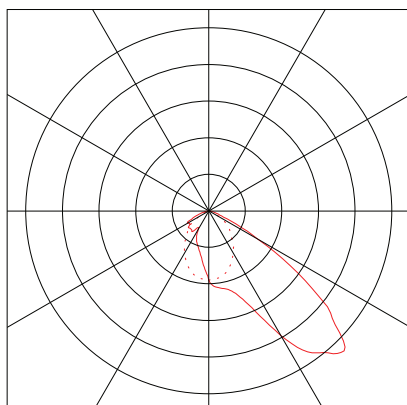
Luminaire data

Luminaire efficiency	: 100%
Luminaire efficacy	: 105.28 lm/W
Classification	: A40 ↓100.0% ↑0.0%
CIE Flux Codes	: 54 92 99 100 100
UGR 4H 8H	: 34.7 / 25.9
Control gear	: electronic ballast
Power	: 81 W
Luminous flux	: 8528 lm

Equipped with

Quantity	: 1
Designation	: LED
Power	: 81 W
Colour	: 4000k
Luminous flux	: 8528 lm

Dimensions : 333 mm x 568 mm x 85 mm



L	W	H	KG
333	85	568	9.30

1 Luminaire data

1.3 Whitecroft Lighting, EUROFLOOD MIDI LED (EFLH34KG)

1.3.1 Data sheet

Manufacturer: Whitecroft Lighting



EFLH34KG EXTERIOR EUROFLOOD MIDI LED

EUROFLOOD MIDI LED IP66 Slimline asymmetric floodlight with diw cast body and 5mm thick thermal shock and impact resistant glass. High quality efficient LED light engine.

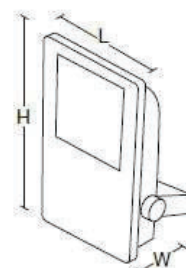
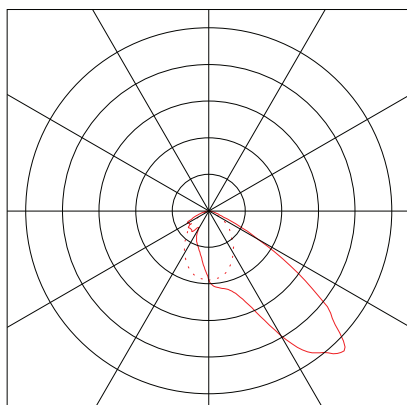
Luminaire data

Luminaire efficiency	: 100%
Luminaire efficacy	: 102.91 lm/W
Classification	: A40 ↓100.0% ↑0.0%
CIE Flux Codes	: 54 92 99 100 100
UGR 4H 8H	: 35.2 / 26.4
Control gear	: electronic ballast
Power	: 121 W
Luminous flux	: 12452 lm

Equipped with

Quantity	: 1
Designation	: LED
Power	: 121 W
Colour	: 4000k
Luminous flux	: 12452 lm

Dimensions : 333 mm x 568 mm x 85 mm



L	W	H	KG
333	85	568	9.30

1 Luminaire data

1.4 Whitecroft Lighting, SPECTRE WX (SPXAH14K)

1.4.1 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

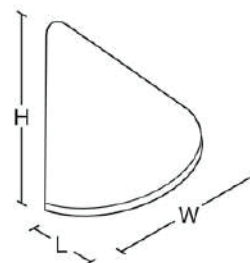
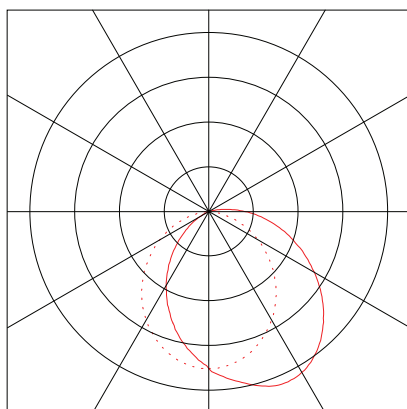
Luminaire data

Absolute Photometry
 Luminaire efficacy : 79.91 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 : 14 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

1.5 Whitecroft Lighting, KOLO IP65 (K6H4204KS)

1.5.1 Data sheet

Manufacturer: Whitecroft Lighting



K6H4204KS ceiling mounted luminaire **KOLO IP65**
 KOLO IP65

Surface mounted circular IP65 LED vandal resitant luminaire in 400mm diameter. Polycarbonate opal diffuser with optional 3 hour emergency.

Emergency Output - 500lm

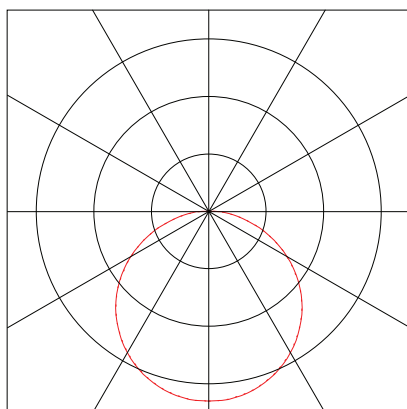
Luminaire data

Absolute Photometry
 Luminaire efficacy : 131.05 lm/W
 Classification : A40 ↓ 98.9% ↑ 1.1%
 CIE Flux Codes : 45 76 94 99 100
 UGR 4H 8H : 22.5 / 22.5
 Control gear : electronic ballast
 Power : 18 W
 Luminous flux : 2359 lm

Equipped with

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

Dimensions : Ø400 mm x 95 mm



Dimensions



Version	Ø	H	KG	KG
300mm surface	300	95	2.1	2.5
400mm surface	400	95	3.5	3.9

Emergency Lighting

Light source from normal operation with reduced flux
 Luminous flux : 400 lm

1 Luminaire data

1.6 Whitecroft Lighting, Centurion L65 (CENLH14K)

1.6.1 Data sheet

Manufacturer: Whitecroft Lighting



CENLH14K wall-mounted luminaire Centurion L65

IP65, IK09 wall mounted LED luminaire for building perimeter applications. Black polycarbonate body with UV stabilised prismatic polycarbonate diffuser producing a wide, forward throw lighting distribution. High quality fixed output or DALI driver and LED module with a choice of light outputs for optimised lighting designs - as Whitecroft Lighting CENTURION L65

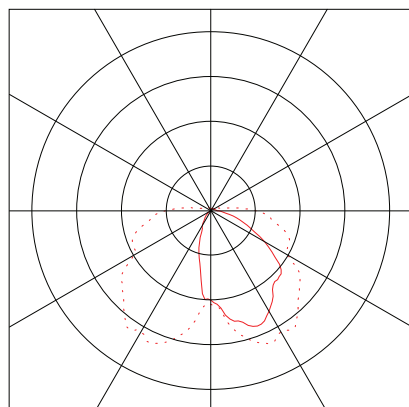
Luminaire data

Luminaire efficiency : 100%
 Luminaire efficacy : 74.17 lm/W
 Classification : A31 ↓92.7% ↑7.3%
 CIE Flux Codes : 40 69 88 93 101
 UGR 4H 8H : 21.5 / 24.8
 Control gear : electronic ballast
 Power : 12 W
 Luminous flux : 890 lm

Equipped with

Quantity : 1
 Designation : LED
 Colour : 4000K
 Luminous flux : 890 lm
 Colour reproduction : 80

Dimensions : 315 mm x 259 mm x 156 mm



L	W	H	IK03	IK05EM
259	156	315	3.2	3.1

1 Luminaire data

1.7 Whitecroft Lighting, SIROCCO MIDI - AREA OPTIC (SIMDH14KGA)

1.7.1 Data sheet

Manufacturer: Whitecroft Lighting



SIMDH14KGA Wall / pole mounted luminaire SIROCCO MIDI - AREA OPTIC

IP66 LED post top luminaire with lightweight die cast aluminium body. High efficacy performance with a choice of road and area lighting distribution patterns and zero upward light when mounted horizontally. Electronic control gear with voltage surge protection and isolating safety switch – as Whitecroft Lighting SIROCCO MIDI.

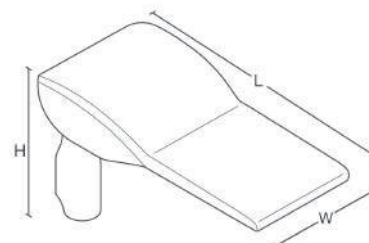
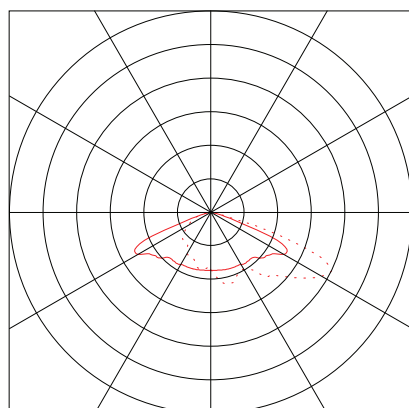
Luminaire data

Absolute Photometry
 Luminaire efficacy : 138.52 lm/W
 Classification : A30 ↓ 100.0% ↑ 0.0%
 CIE Flux Codes : 29 64 97 100 100
 Glare : G*3 / D5
 Control gear : electronic ballast
 Power : 33 W
 Luminous flux : 4571 lm

Equipped with

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

Dimensions : 558 mm x 293 mm x 115 mm



1 Luminaire data

1.8 Whitecroft Lighting, SIROCCO MIDI - AREA OPTIC (SIMDH24KGA)

1.8.1 Data sheet

Manufacturer: Whitecroft Lighting



SIMDH24KGA Wall / pole mounted luminaire SIROCCO MIDI - AREA OPTIC

IP66 LED post top luminaire with lightweight die cast aluminium body. High efficacy performance with a choice of road and area lighting distribution patterns and zero upward light when mounted horizontally. Electronic control gear with voltage surge protection and isolating safety switch – as Whitecroft Lighting SIROCCO MIDI.

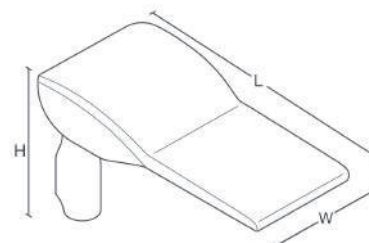
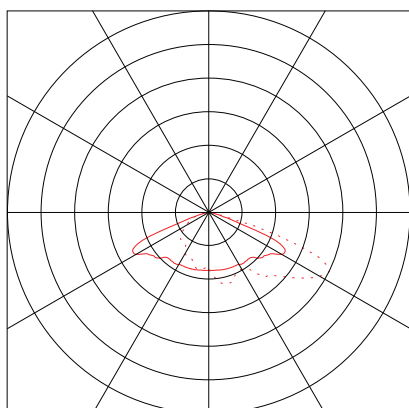
Luminaire data

Absolute Photometry
 Luminaire efficacy : 136.43 lm/W
 Classification : A30 ↓ 100.0% ↑ 0.0%
 CIE Flux Codes : 29 64 97 100 100
 Glare : G*3 / D4
 Control gear : electronic ballast
 Power : 67 W
 Luminous flux : 9141 lm

Equipped with

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

Dimensions : 558 mm x 293 mm x 115 mm



1 Luminaire data

1.9 Whitecroft Lighting, EUROFLOOD MIDI LED (EFLH14KG)

1.9.1 Data sheet

Manufacturer: Whitecroft Lighting



EFLH14KG EXTERIOR EUROFLOOD MIDI LED

EUROFLOOD MIDI LED IP66 Slimline asymmetric floodlight with diw cast body and 5mm thick thermal shock and impact resistant glass. High quality efficient LED light engine.

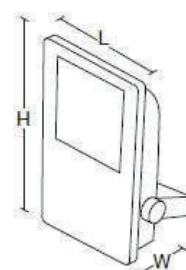
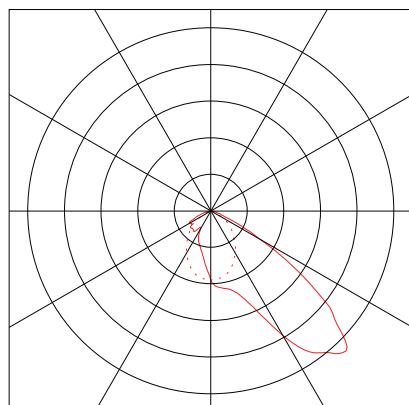
Luminaire data

Luminaire efficiency	: 100%
Luminaire efficacy	: 115.96 lm/W
Classification	: A40 ↓100.0% ↑0.0%
CIE Flux Codes	: 54 92 99 100 100
UGR 4H 8H	: 33.5 / 24.7
Control gear	: electronic ballast
Power	: 52 W
Luminous flux	: 6030 lm

Equipped with

Quantity	: 1
Designation	: LED
Power	: 52 W
Colour	: 4000k
Luminous flux	: 6030 lm

Dimensions : 333 mm x 568 mm x 85 mm



L	W	H	KG
333	85	568	9.30

1 Luminaire data

1.10 Whitecroft Lighting, KOLO BOLLARD (BLY214KSRB)

1.10.1 Data sheet

Manufacturer: Whitecroft Lighting



BLY214KSRB bollard / pole mounted luminaires **KOLO BOLLARD**
 KOLO BOLLARD

Black - Symmetric Distribution - 4000K

Emergency Output - 332lm

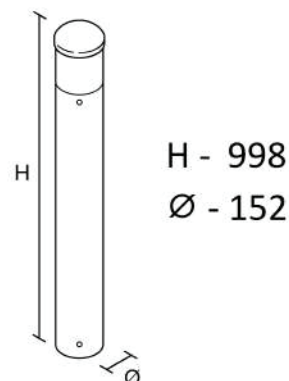
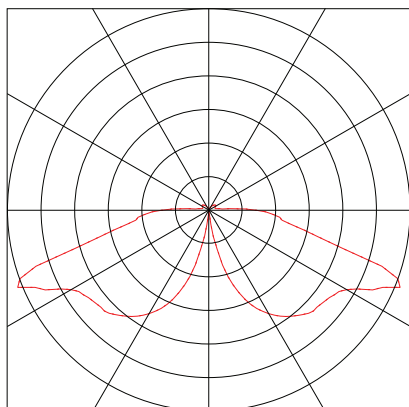
Luminaire data

Luminaire efficiency : 100%
 Luminaire efficacy : 101 lm/W
 Classification : A21 ↓93.4% ↑6.6%
 CIE Flux Codes : 21 50 85 93 101
 UGR 4H 8H : 22.9 / 22.9
 Control gear : electronic ballast
 Power : 4 W
 Luminous flux : 404 lm

Equipped with

Quantity : 1
 Designation : LED
 Colour : 4000K
 Luminous flux : 404 lm
 Colour reproduction : 80

Dimensions : Ø150 mm x 150 mm



1 Luminaire data

1.11 Whitecroft Lighting, Centurion PP65 (CENPL0Y)

1.11.1 Data sheet

Manufacturer: Whitecroft Lighting



CENPL0Y wall-mounted luminaire Centurion PP65

IP65 perimeter security LED lighting bulkhead suitable for direct surface mounting with a 4 point fixing employing two key slots and 2 locking screws. Black polycarbonate visor and die-cast aluminium base with UV stabilised prismatic polycarbonate diffuser and Miro 5 reflector – as Whitecroft Lighting CENTURION PP65 LED

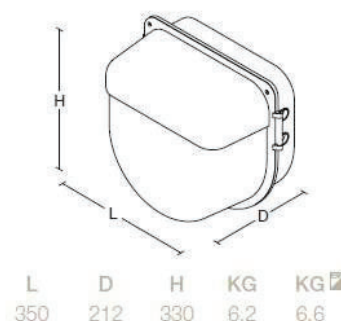
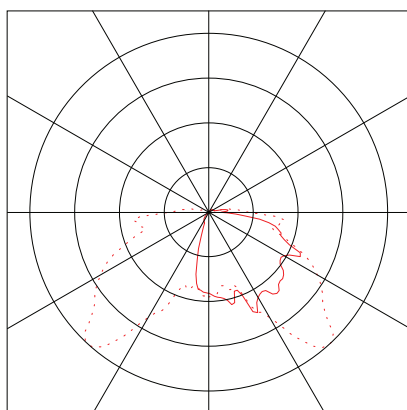
Luminaire data

Absolute Photometry
 Luminaire efficacy : 104.92 lm/W
 Classification : A31 ↓91.3% ↑8.7%
 CIE Flux Codes : 31 66 88 91 100
 UGR 4H 8H : 22.3 / 24.2
 Control gear : electronic ballast
 Power : 13 W
 Luminous flux : 1364 lm

Equipped with

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

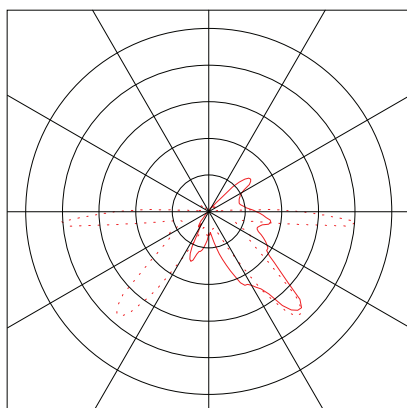
Dimensions : 350 mm x 212 mm x 330 mm



Emergency Lighting

Emergency lighting with own light source

Luminaire efficiency : 105%
 Luminaire efficacy : 38.5 lm/W
 Power : 3 W
 Luminous flux : 110 lm



1 Luminaire data

1.12 Whitecroft Lighting, KOLO IP65 HOOD (K6H44KHB)

1.12.1 Data sheet

Manufacturer: Whitecroft Lighting



K6H44KHB ceiling mounted luminaire **KOLO IP65 HOOD**
KOLO IP65

Surface mounted circular IP65 LED vandal resitant luminaire in 300mm diameter. Polycarbonate opal diffuser

Options:

Add suffix EM for 3 hour integral emergency

Note:

Emergency BLF - 220 Lumens

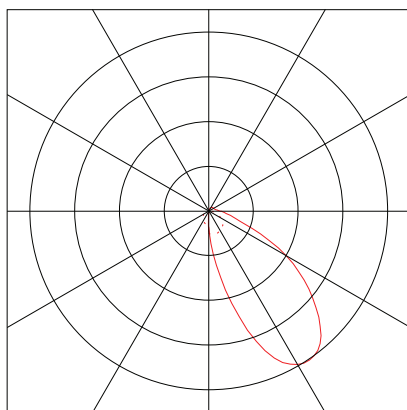
Luminaire data

Absolute Photometry
Luminaire efficacy : 72 lm/W
Classification : A31 ↓93.0% ↑7.0%
CIE Flux Codes : 40 77 94 93 100
UGR 4H 8H : 24.9 / 21.0
Control gear : electronic ballast
Power : 14 W
Luminous flux : 1008 lm

Equipped with

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

Dimensions : 400 mm x 100 mm x 400 mm



Dimensions



Version	Ø	H	KG	KG
300mm surface	300	95	2.1	2.5
400mm surface	400	95	3.5	3.9

Emergency Lighting

Light source from normal operation with reduced flux

Luminous flux : 200 lm

2 5lx Perimeter - Centurion L65

2.1 Description, 5lx Perimeter - Centurion L65

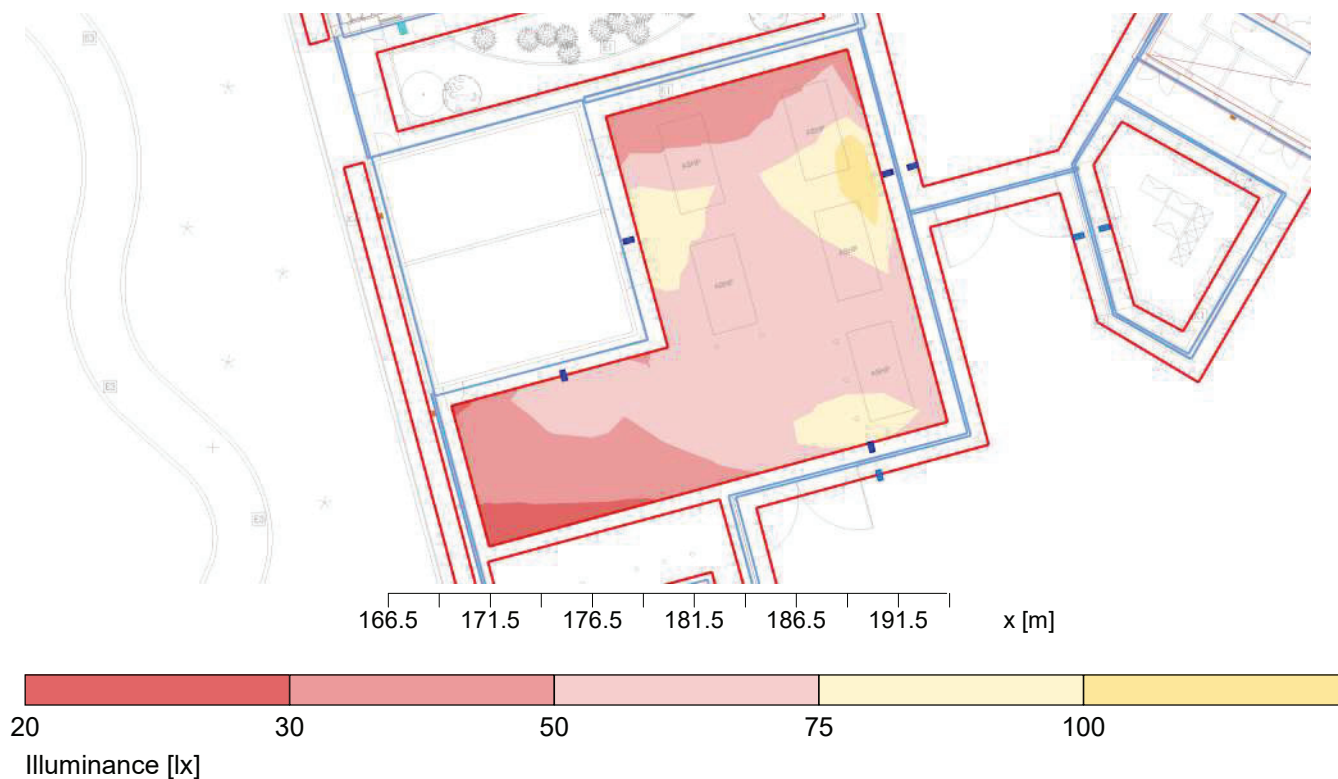
2.1.1 Floor plan



2 5lx Perimeter - Centurion L65

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.1 Result overview, ASHP Yard 50lx 0.4Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	63 lx
Minimum illuminance	E_{min}	27 lx
Maximum illuminance	E_{max}	125 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.37 (0.42)
Diversity U_d	E_{min}/E_{max}	1:4.68 (0.21)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

2 5lx Perimeter - Centurion L65

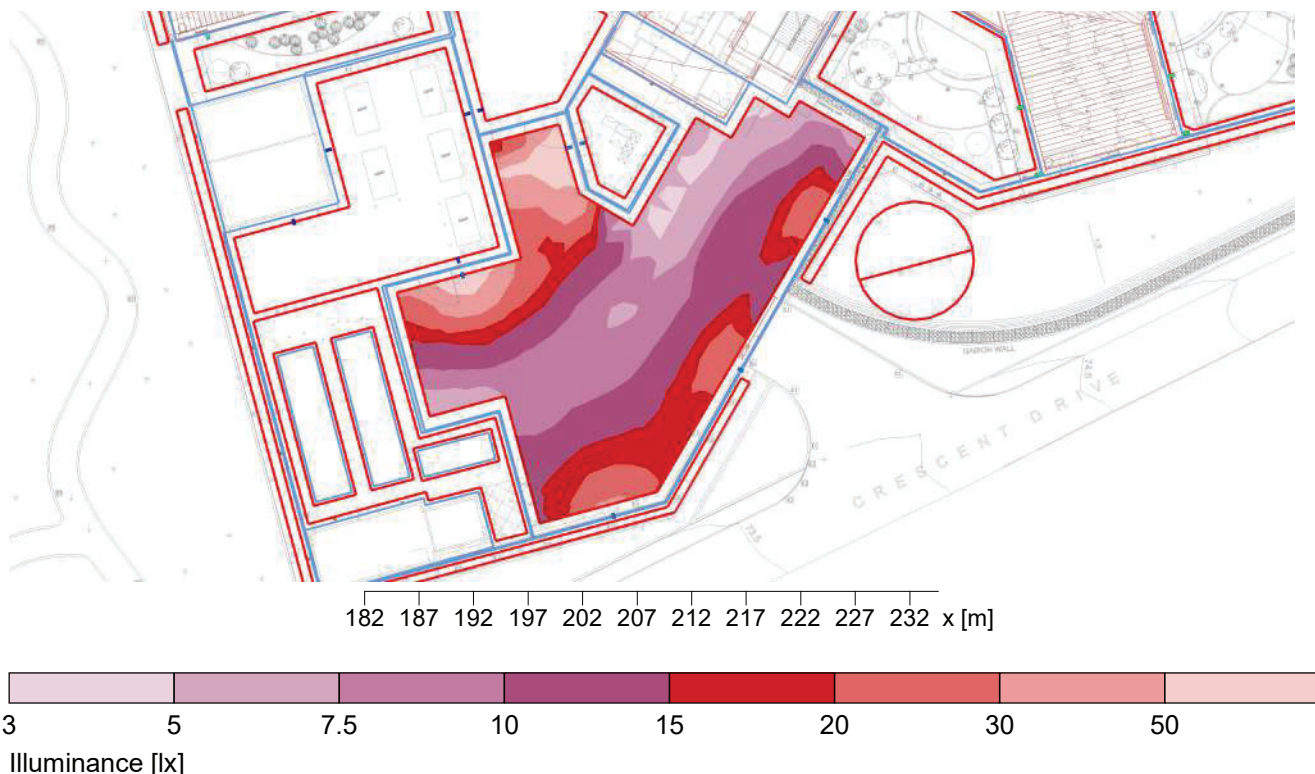
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.1 Result overview, ASHP Yard 50lx 0.4Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.2 Result overview, Turning Circle 10lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	15 lx
Minimum illuminance	E_{min}	4 lx
Maximum illuminance	E_{max}	73 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.67 (0.27)
Diversity U_d	E_{min}/E_{max}	1:17.6 (0.06)

Type No. Make

Whitecroft Lighting		
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

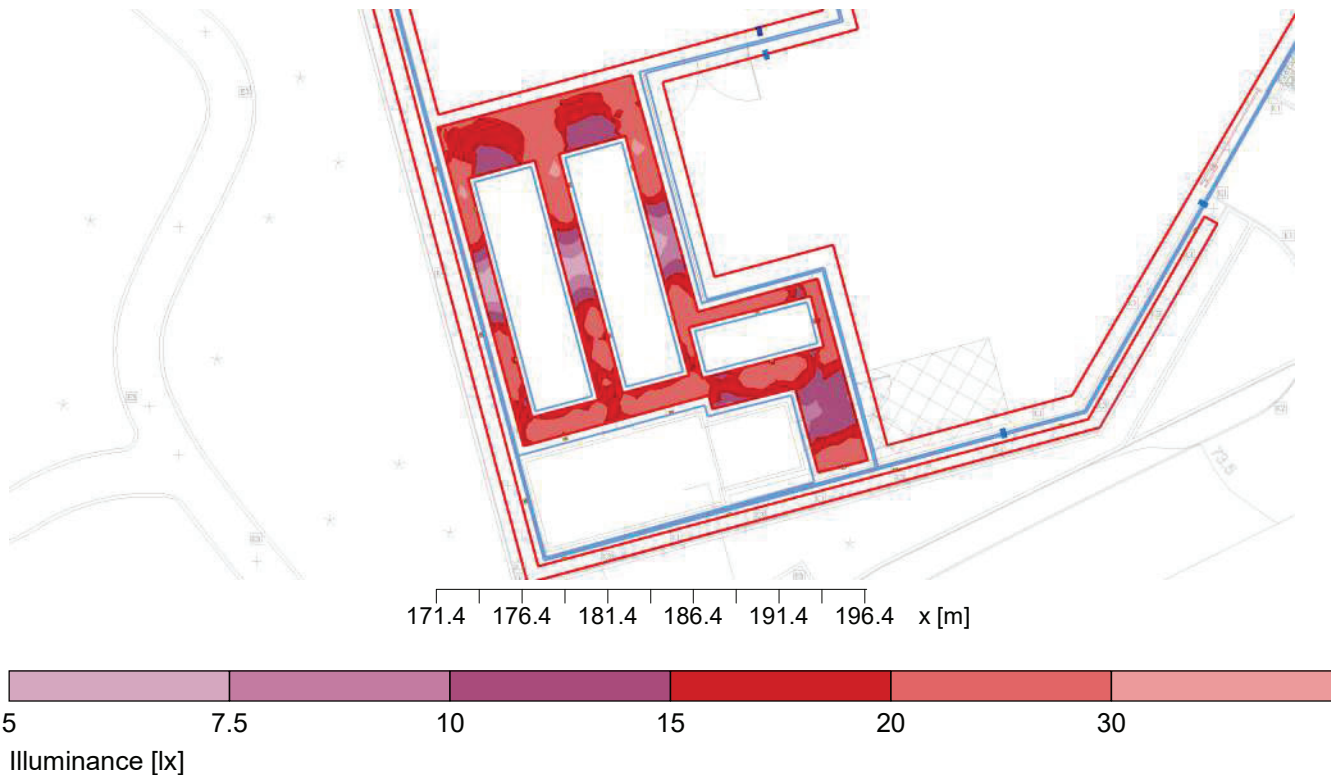
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.2 Result overview, Turning Circle 10lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.3 Result overview, Plant Access 5lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	19 lx
Minimum illuminance	E_{min}	6 lx
Maximum illuminance	E_{max}	31 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.11 (0.32)
Diversity U_d	E_{min}/E_{max}	1:5.18 (0.19)

Type No. Make

Whitecroft Lighting		
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

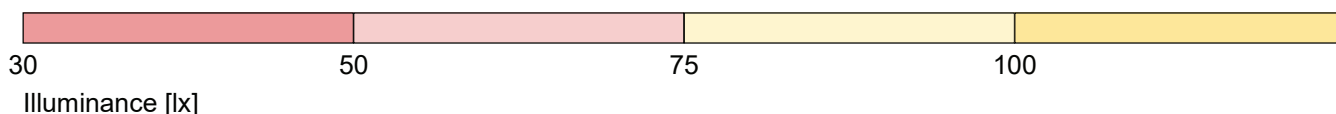
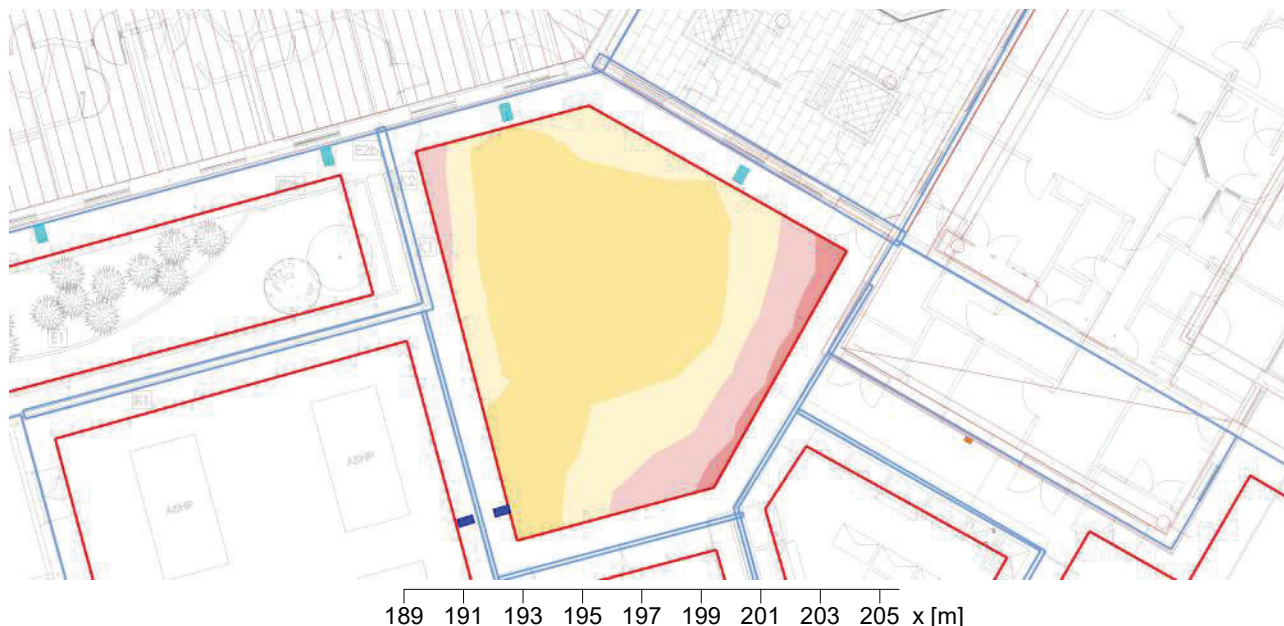
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.3 Result overview, Plant Access 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.4 Result overview, Discrete Entrance 100lx 0.4Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	101 lx
Minimum illuminance	E_{min}	46 lx
Maximum illuminance	E_{max}	143 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.2 (0.45)
Diversity U_d	E_{min}/E_{max}	1:3.13 (0.32)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

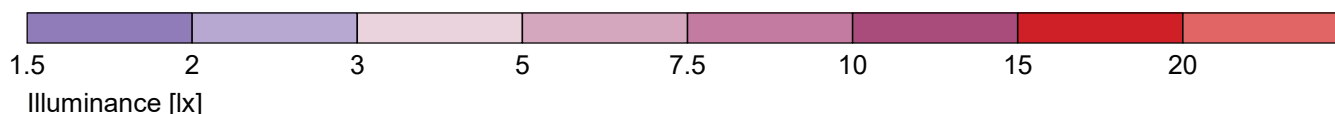
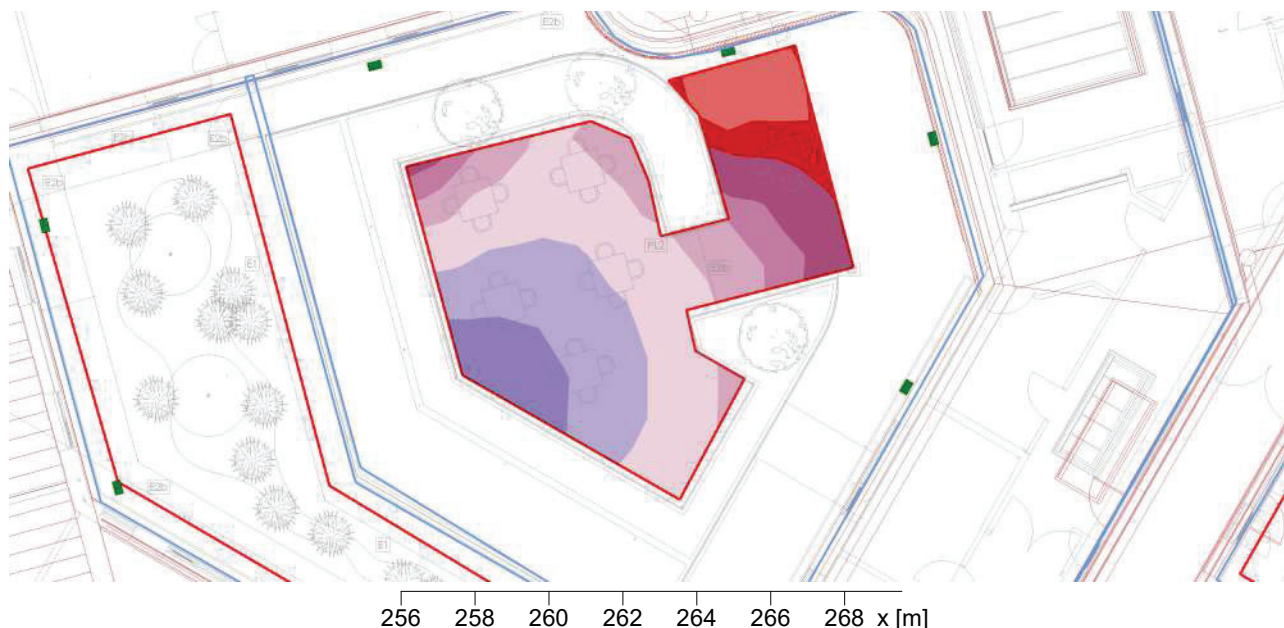
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.4 Result overview, Discrete Entrance 100lx 0.4Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.5 Result overview, Cafe Garden 5lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	7 lx
Minimum illuminance	E_{min}	2 lx
Maximum illuminance	E_{max}	27 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.98 (0.25)
Diversity U_d	E_{min}/E_{max}	1:15.7 (0.06)

Type No. Make

Whitecroft Lighting

1 2 x
 Order No. : AXLH214K
 Luminaire name : ACL EXTREME
 Equipment : 1 x LED 19 W / 2023.1 lm
 Maintenance factor: 0.68

2 20 x
 Order No. : EFLH24KG
 Luminaire name : EUROFLOOD MIDI LED
 Equipment : 1 x LED 81 W / 8528 lm
 Maintenance factor: 0.81

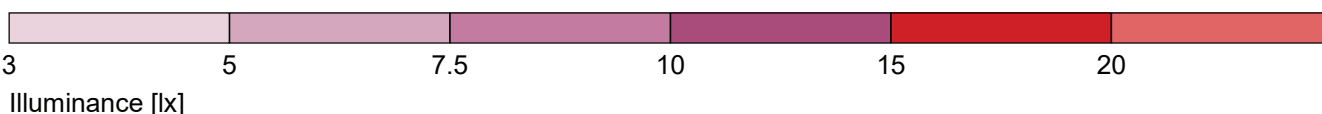
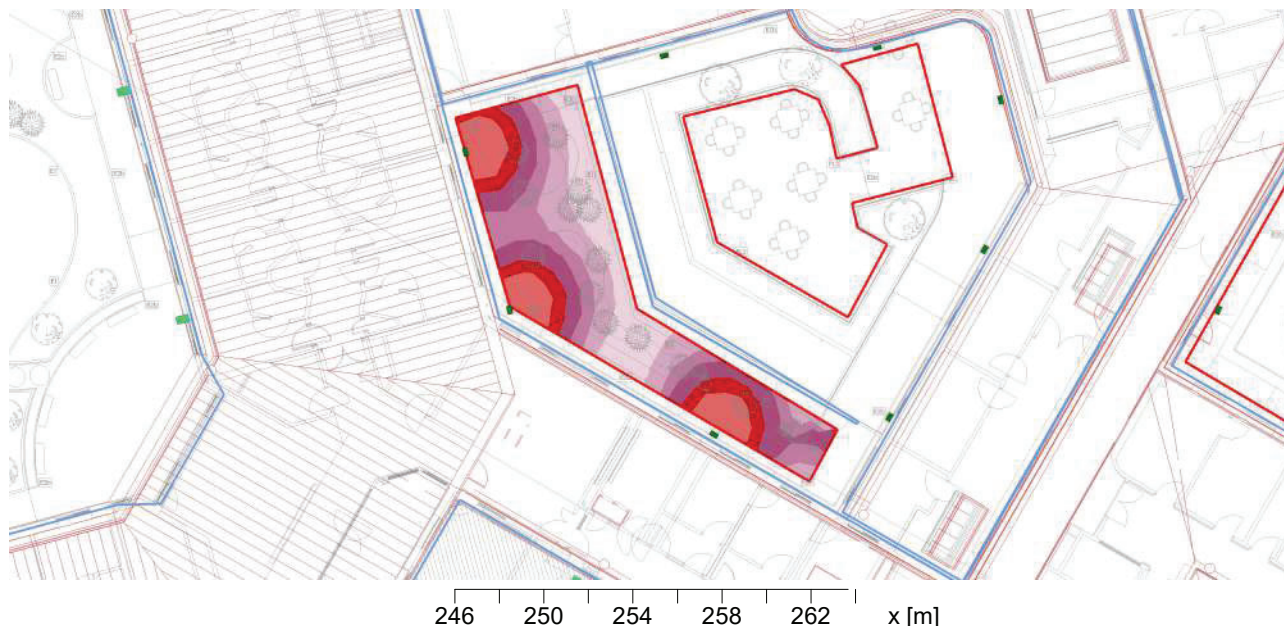
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.5 Result overview, Cafe Garden 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.6 Result overview, Maintenance Only Garden 5lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	10 lx
Minimum illuminance	E_{min}	3 lx
Maximum illuminance	E_{max}	29 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.39 (0.3)
Diversity U_d	E_{min}/E_{max}	1:9.55 (0.1)

Type No. Make

Whitecroft Lighting		
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

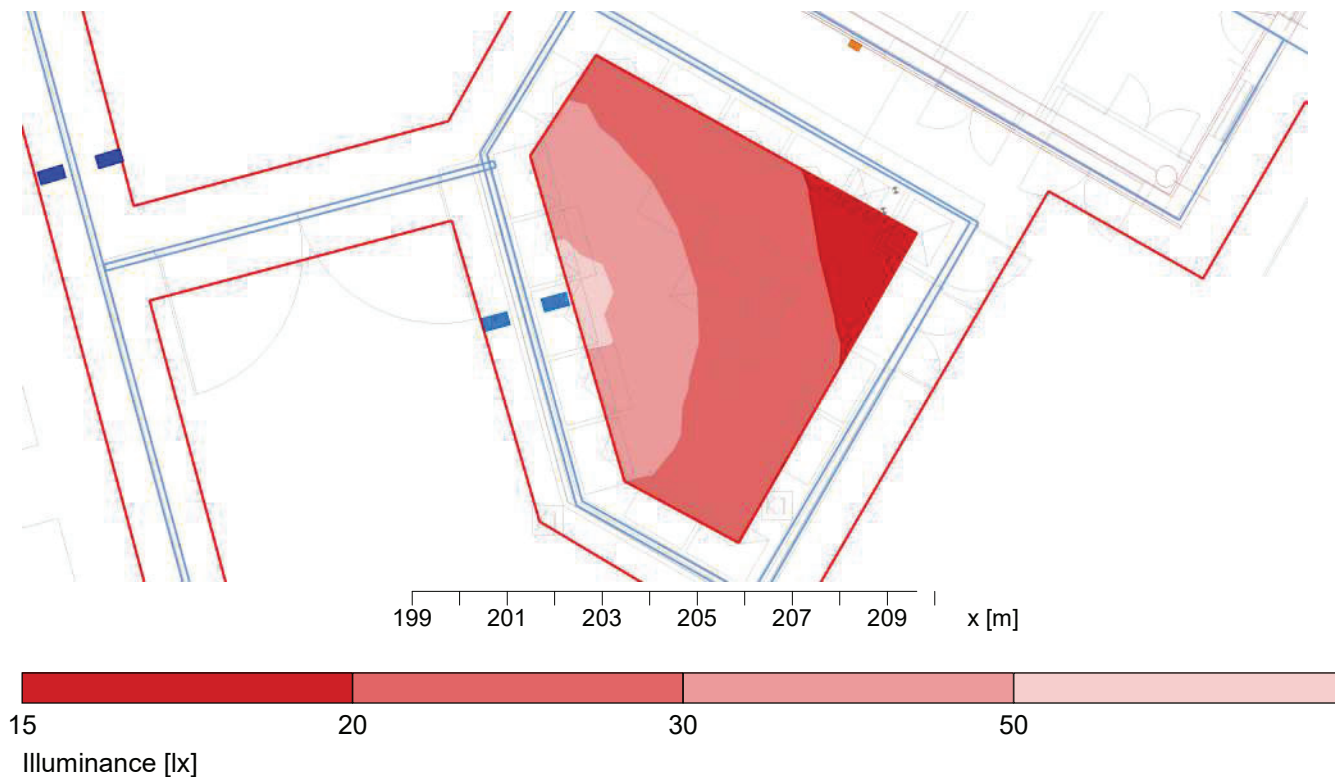
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.6 Result overview, Maintenance Only Garden 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.7 Result overview, Bin Store 20lx 0.4Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

943400.2 lm
 9124 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	29 lx
Minimum illuminance	E_{min}	18 lx
Maximum illuminance	E_{max}	53 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.63 (0.61)
Diversity U_d	E_{min}/E_{max}	1:2.96 (0.34)

Type No. Make

Whitecroft Lighting

1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68

2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

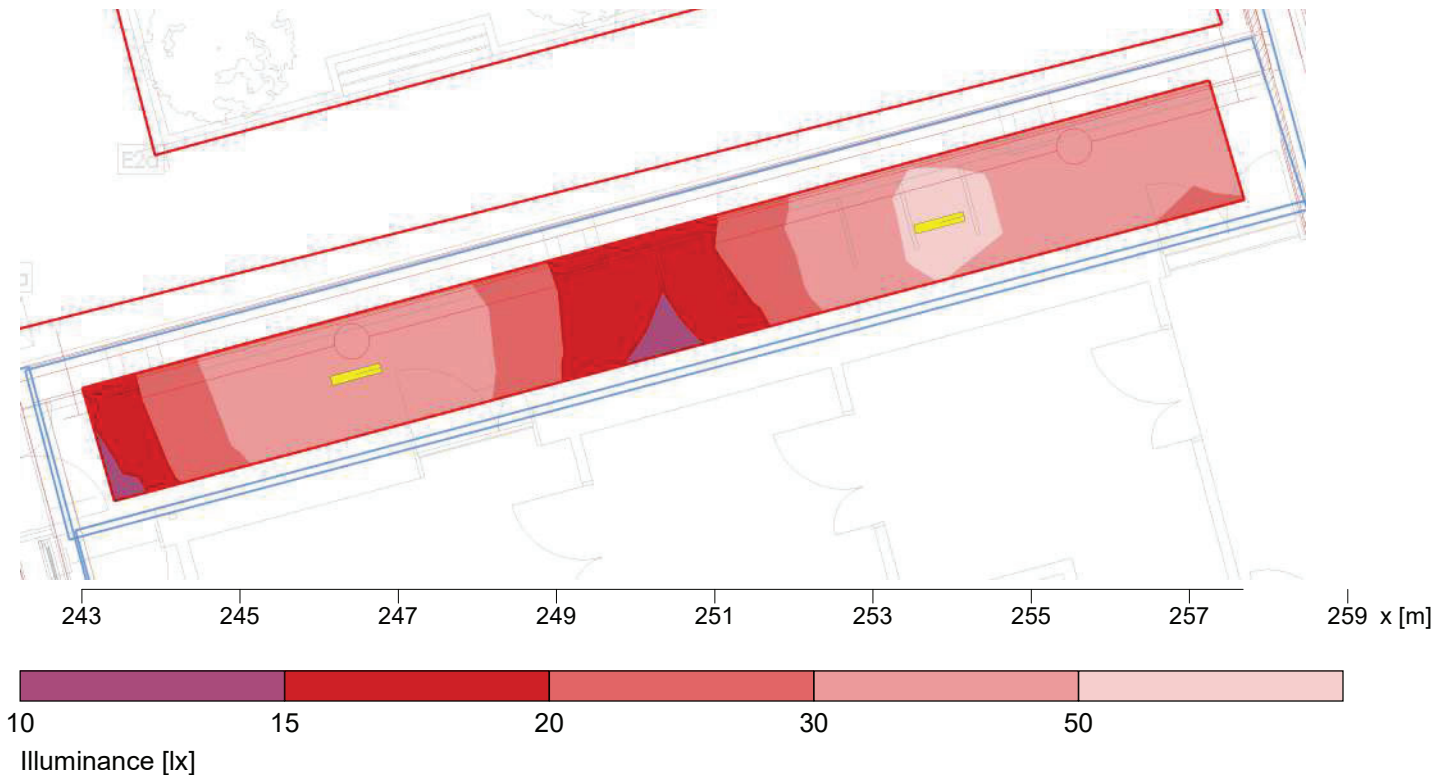
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.7 Result overview, Bin Store 20lx 0.4Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.8 Result overview, Bike Store Under Canopy 10lx 0.4Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	34 lx
Minimum illuminance	E_{min}	14 lx
Maximum illuminance	E_{max}	55 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.38 (0.42)
Diversity U_d	E_{min}/E_{max}	1:3.86 (0.26)

Type No. Make

Whitecroft Lighting

1 2 x
 Order No. : AXLH214K
 Luminaire name : ACL EXTREME
 Equipment : 1 x LED 19 W / 2023.1 lm
 Maintenance factor: 0.68

2 20 x
 Order No. : EFLH24KG
 Luminaire name : EUROFLOOD MIDI LED
 Equipment : 1 x LED 81 W / 8528 lm
 Maintenance factor: 0.81

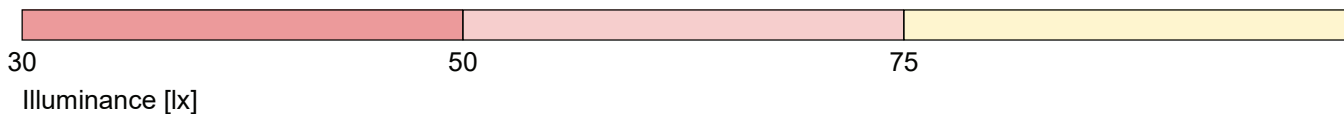
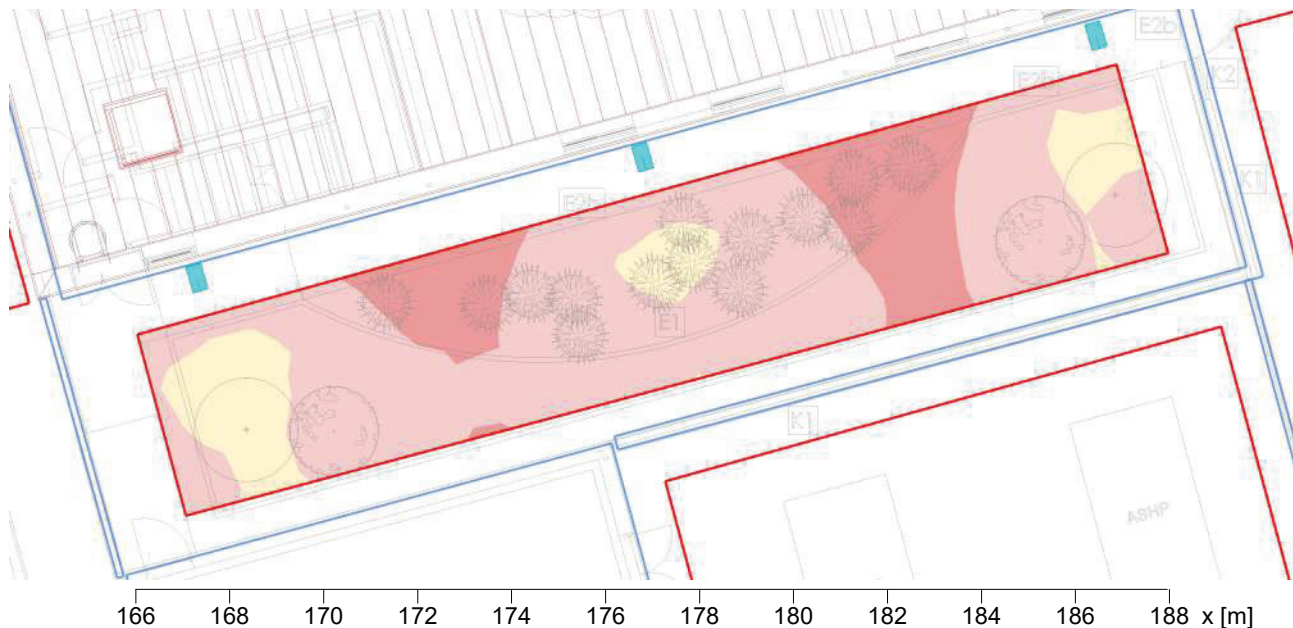
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.8 Result overview, Bike Store Under Canopy 10lx 0.4Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.9 Result overview, PICU Garden 50lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	62 lx
Minimum illuminance	E_{min}	38 lx
Maximum illuminance	E_{max}	84 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.66 (0.6)
Diversity U_d	E_{min}/E_{max}	1:2.23 (0.45)

Type No. Make

Whitecroft Lighting		
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

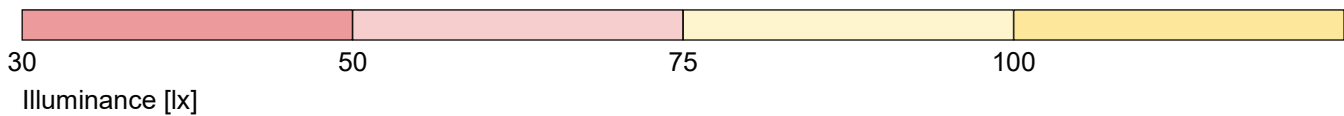
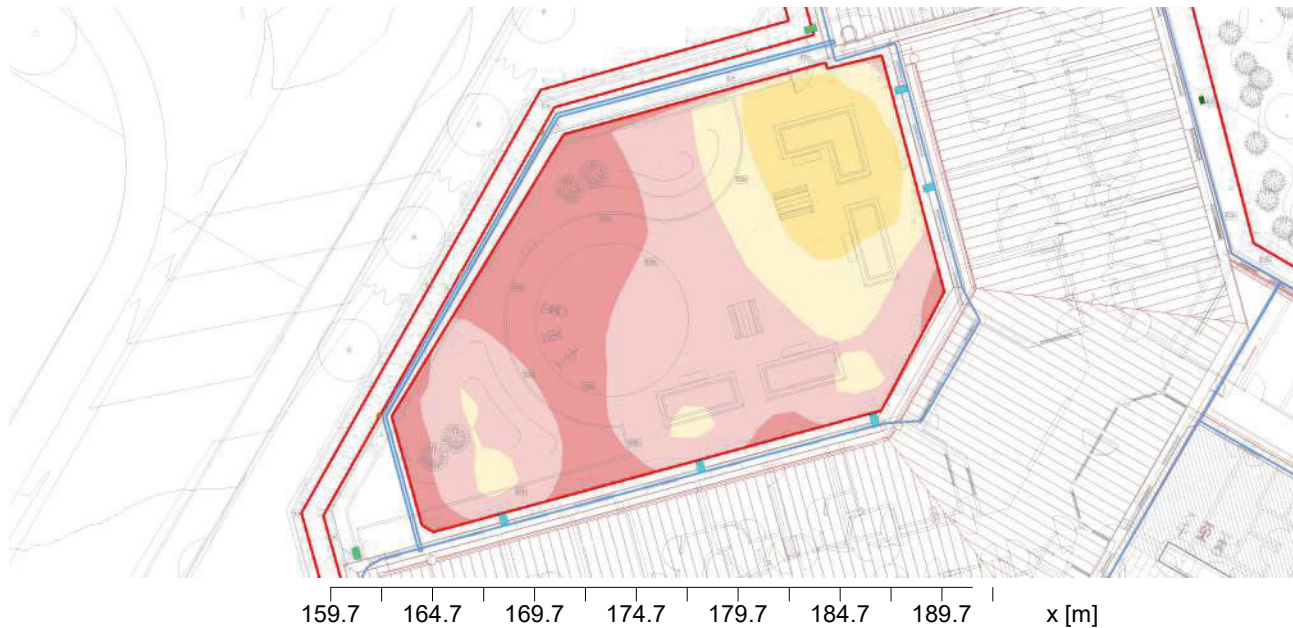
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.9 Result overview, PICU Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.10 Result overview, PICU Garden 50lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan

Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	68 lx
Minimum illuminance	E_{min}	33 lx
Maximum illuminance	E_{max}	116 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.04 (0.49)
Diversity U_d	E_{min}/E_{max}	1:3.49 (0.29)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

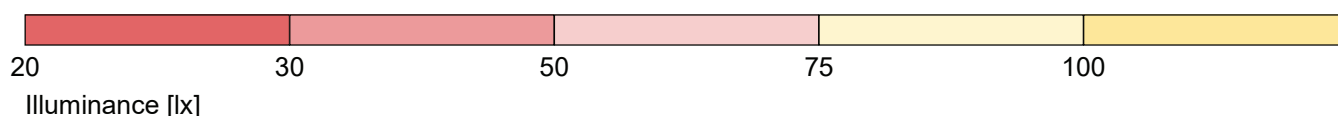
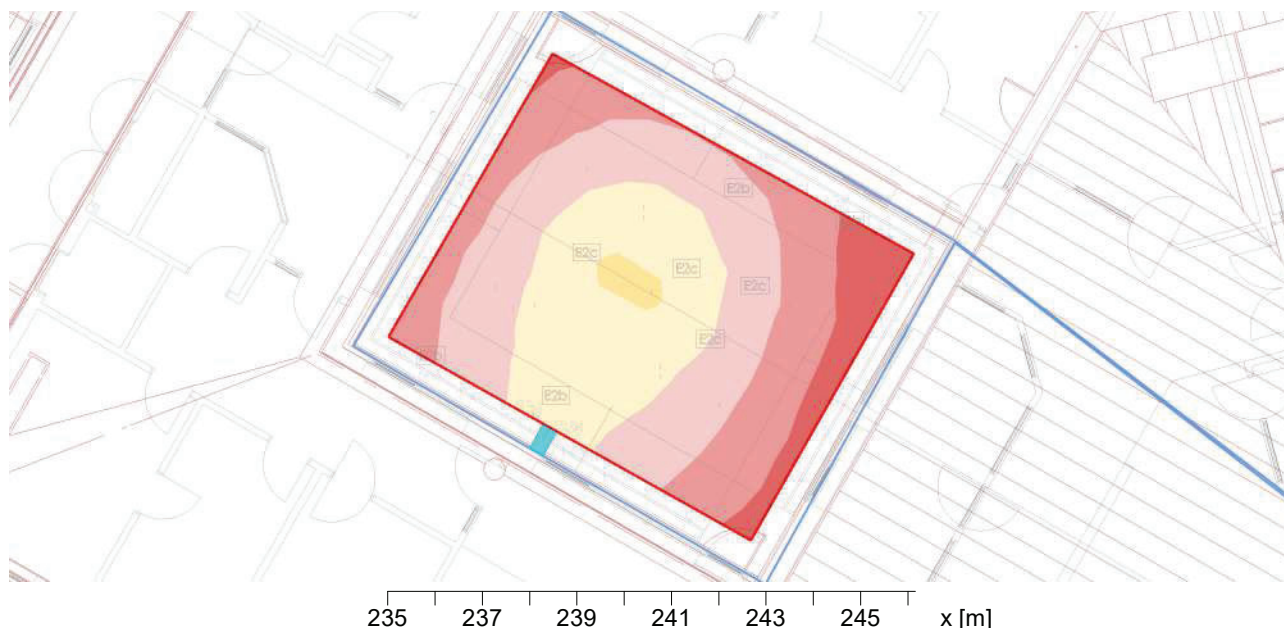
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.10 Result overview, PICU Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.11 Result overview, Service user Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

943400.2 lm
 9124 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	63 lx
Minimum illuminance	E_{min}	28 lx
Maximum illuminance	E_{max}	105 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.26 (0.44)
Diversity U_d	E_{min}/E_{max}	1:3.76 (0.27)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

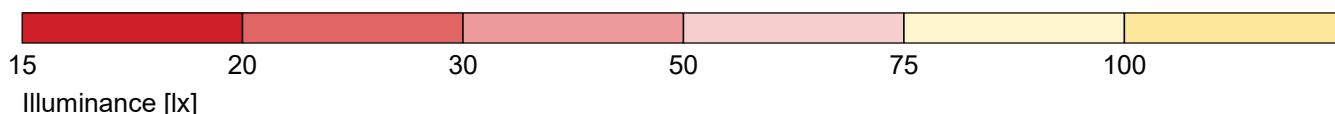
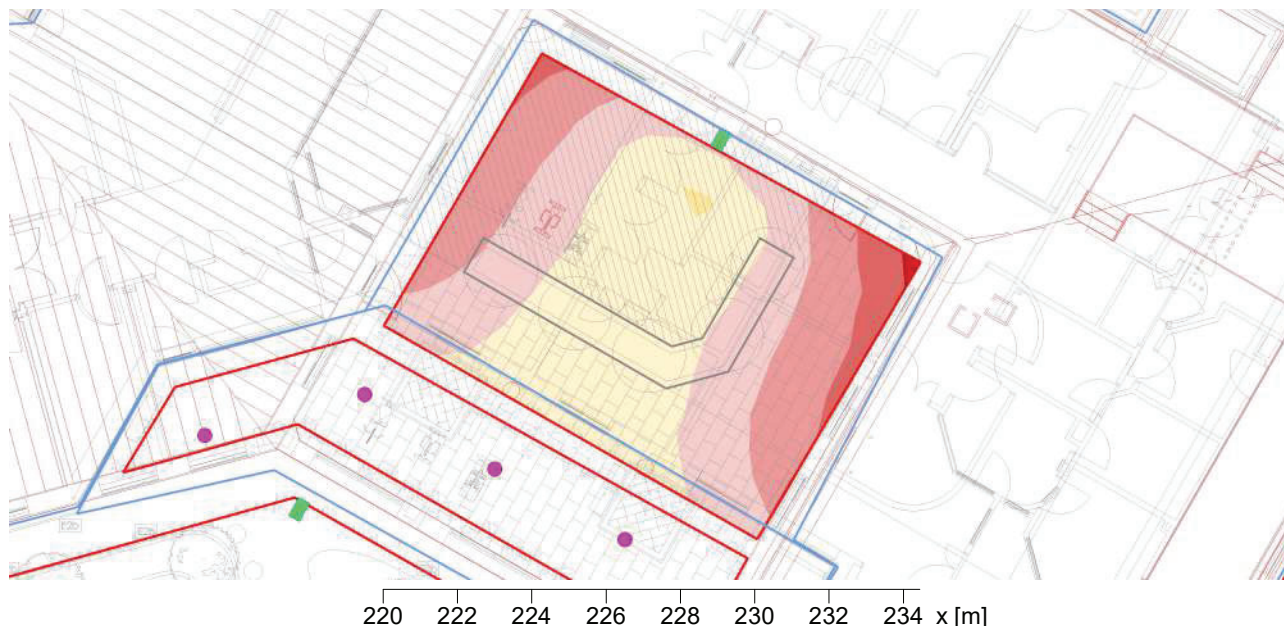
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.11 Result overview, Service user Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.12 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	66 lx
Minimum illuminance	E_{min}	17 lx
Maximum illuminance	E_{max}	103 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.81 (0.26)
Diversity U_d	E_{min}/E_{max}	1:5.96 (0.17)

Type No. Make

		Whitecroft Lighting
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

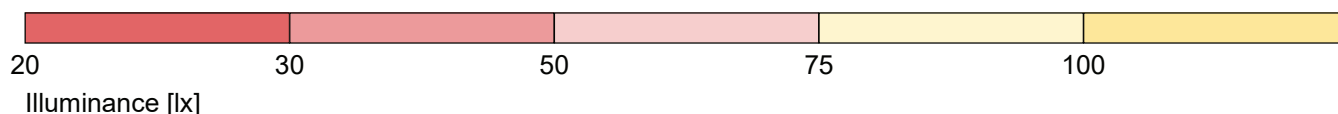
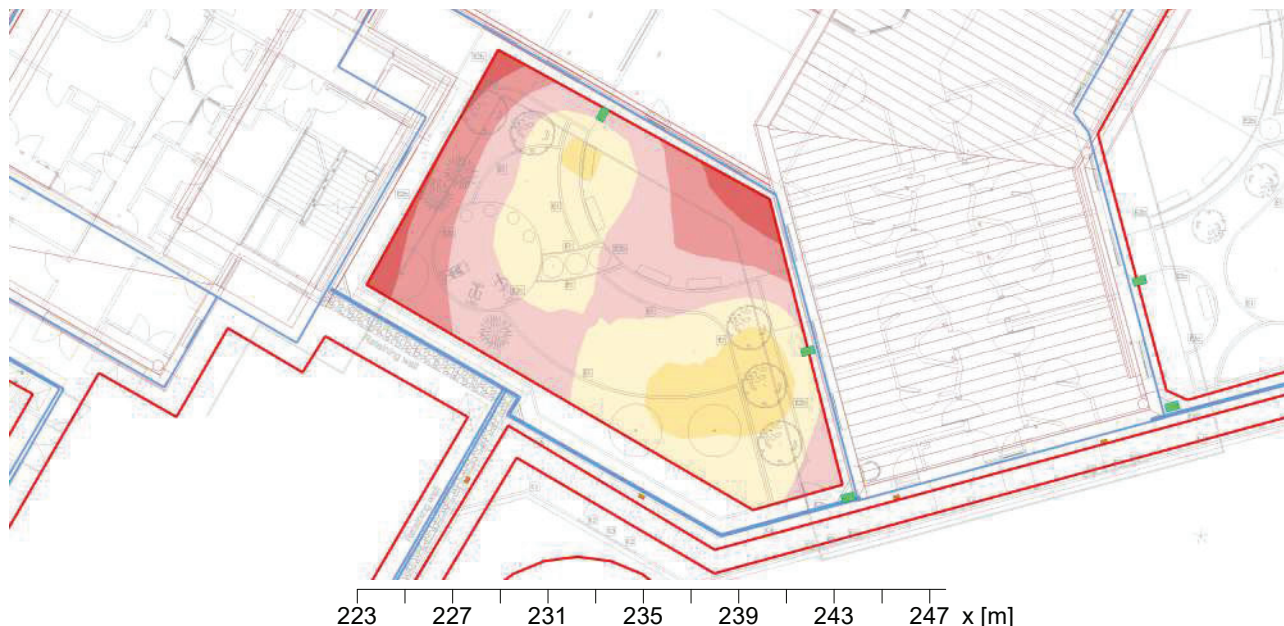
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.12 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.13 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	73 lx
Minimum illuminance	E_{min}	23 lx
Maximum illuminance	E_{max}	120 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.12 (0.32)
Diversity U_d	E_{min}/E_{max}	1:5.15 (0.19)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

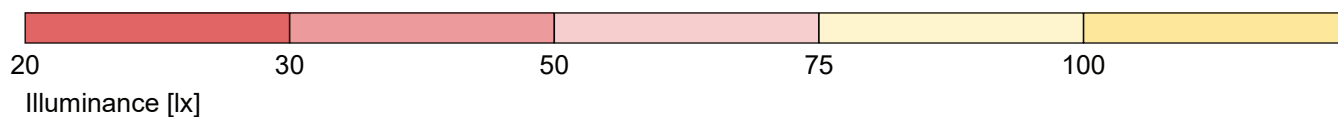
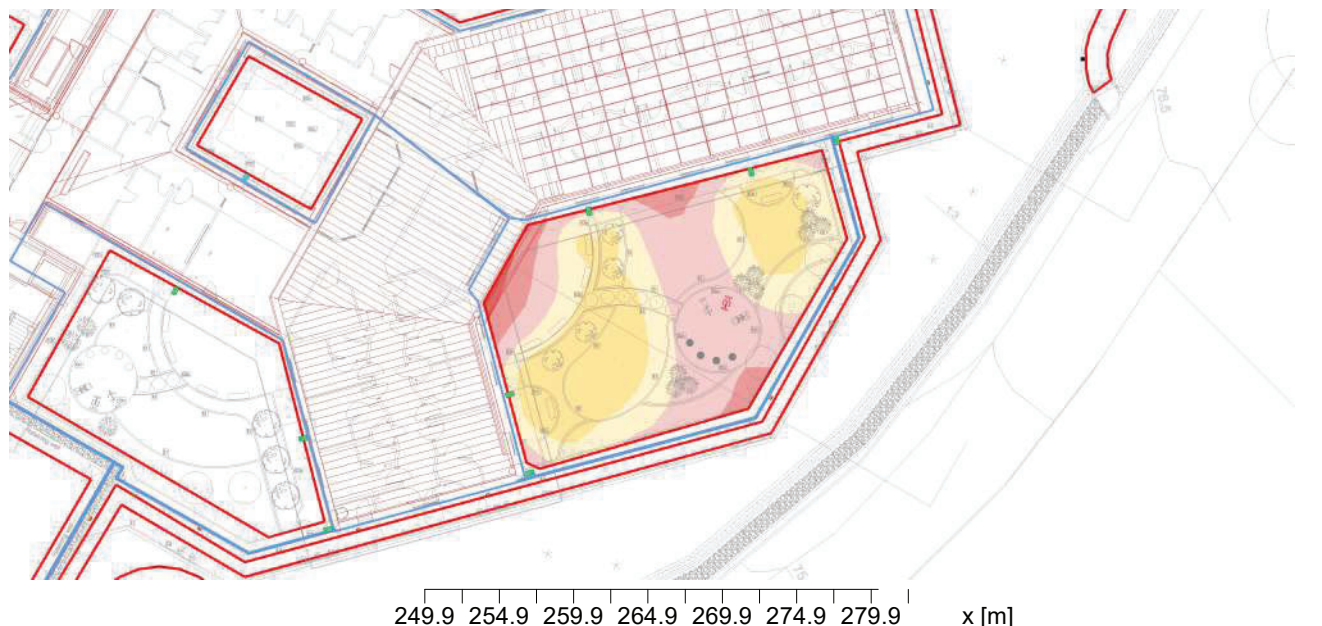
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.13 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.14 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	85 lx
Minimum illuminance	E_{min}	29 lx
Maximum illuminance	E_{max}	133 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.91 (0.34)
Diversity U_d	E_{min}/E_{max}	1:4.59 (0.22)

Type No. Make

Whitecroft Lighting		
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

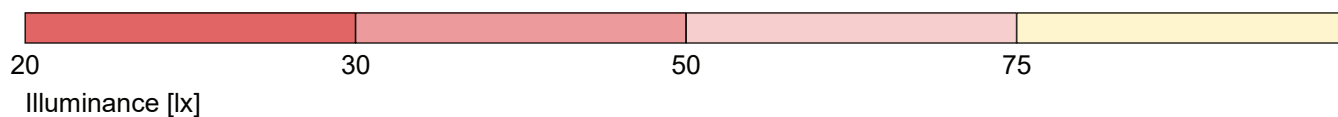
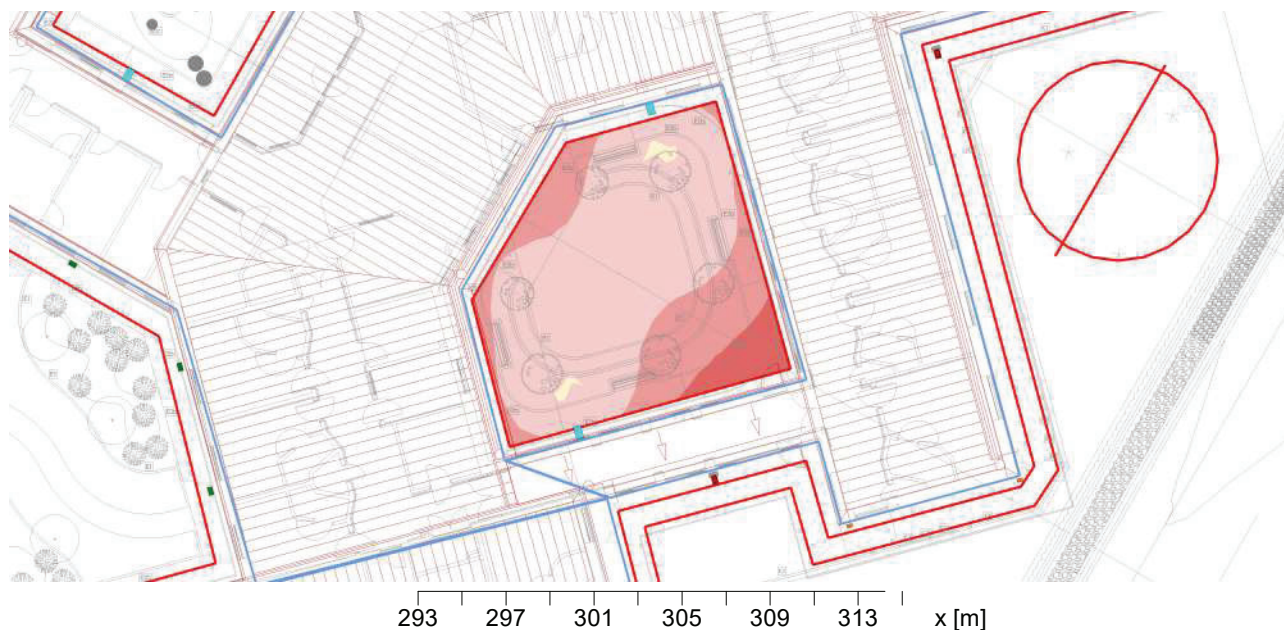
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.14 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.15 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	54 lx
Minimum illuminance	E_{min}	20 lx
Maximum illuminance	E_{max}	78 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.67 (0.37)
Diversity U_d	E_{min}/E_{max}	1:3.82 (0.26)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

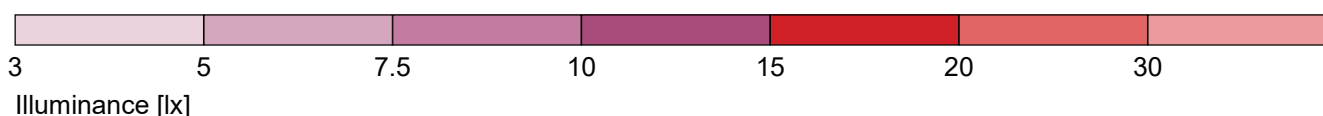
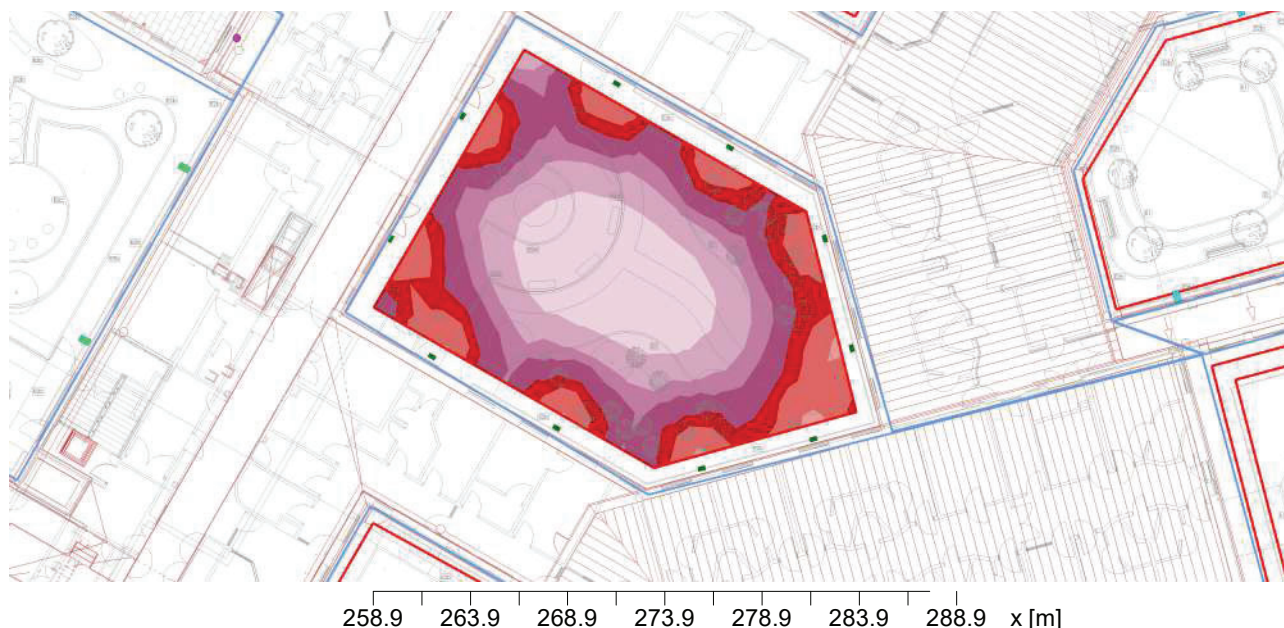
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.15 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.16 Result overview, Maintenance Only Garden 5lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

943400.2 lm
 9124 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	11 lx
Minimum illuminance	E_{min}	3 lx
Maximum illuminance	E_{max}	31 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.51 (0.28)
Diversity U_d	E_{min}/E_{max}	1:9.59 (0.1)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

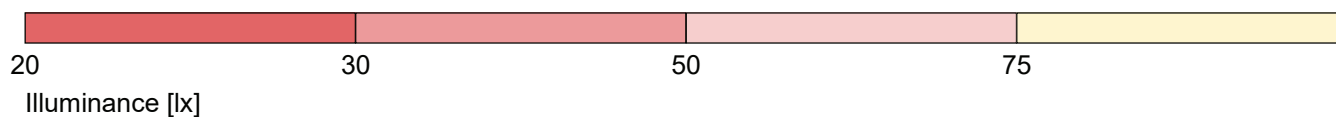
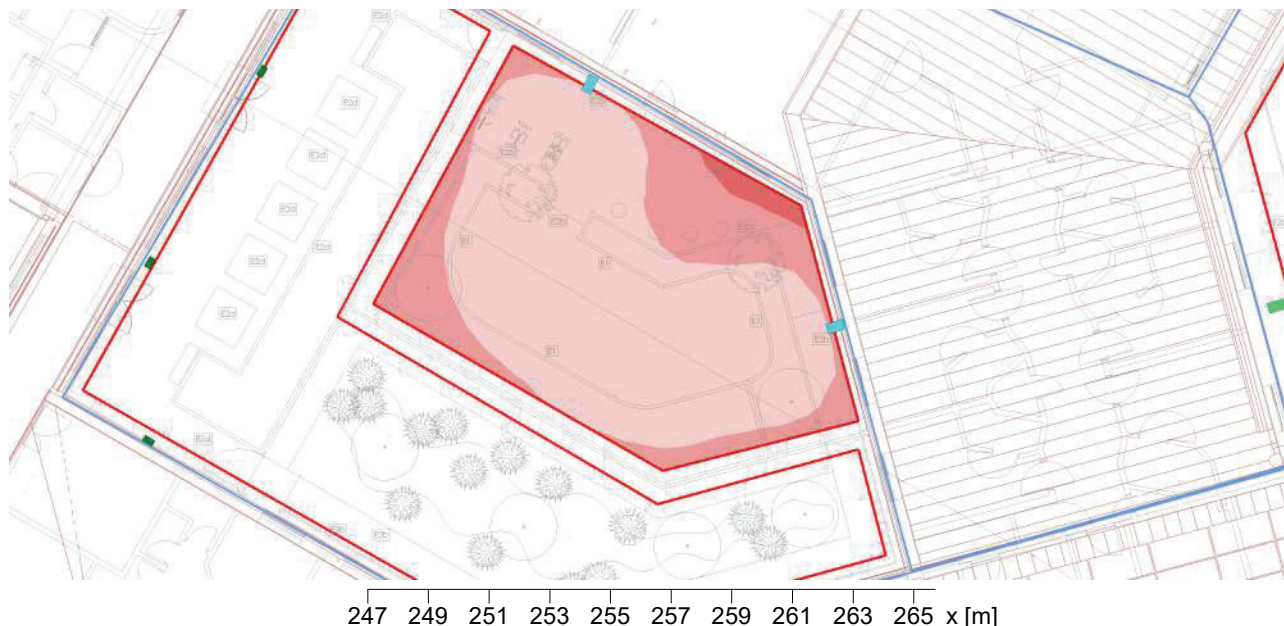
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.16 Result overview, Maintenance Only Garden 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.17 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	55 lx
Minimum illuminance	E_{min}	24 lx
Maximum illuminance	E_{max}	75 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.32 (0.43)
Diversity U_d	E_{min}/E_{max}	1:3.18 (0.31)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

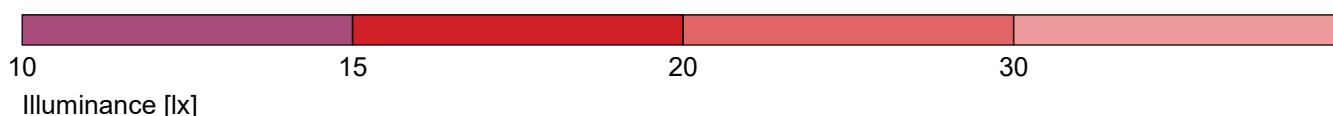
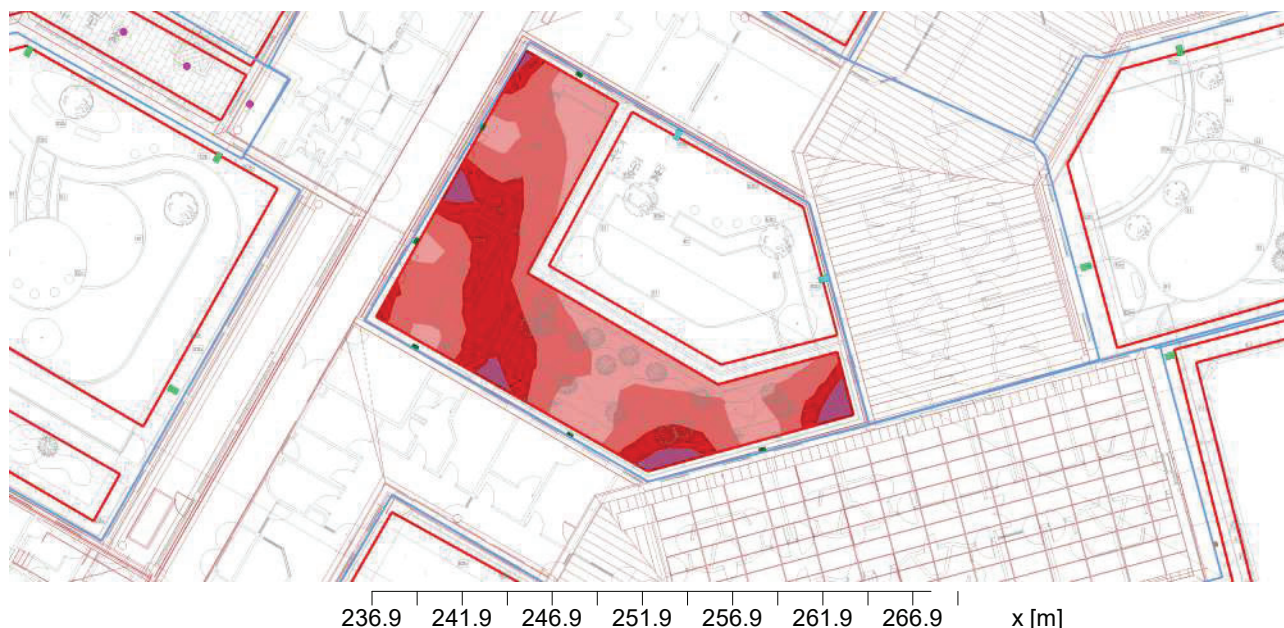
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.17 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.18 Result overview, Maintenance Only Garden 5lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

943400.2 lm
 9124 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	25 lx
Minimum illuminance	E_{min}	14 lx
Maximum illuminance	E_{max}	42 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.76 (0.57)
Diversity U_d	E_{min}/E_{max}	1:2.96 (0.34)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

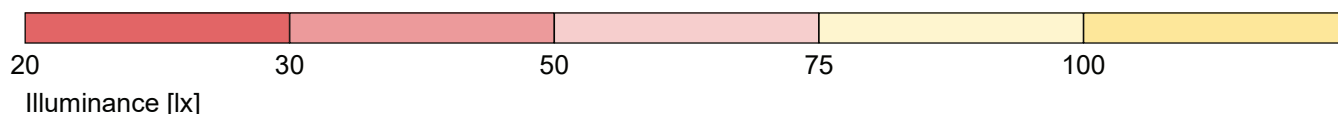
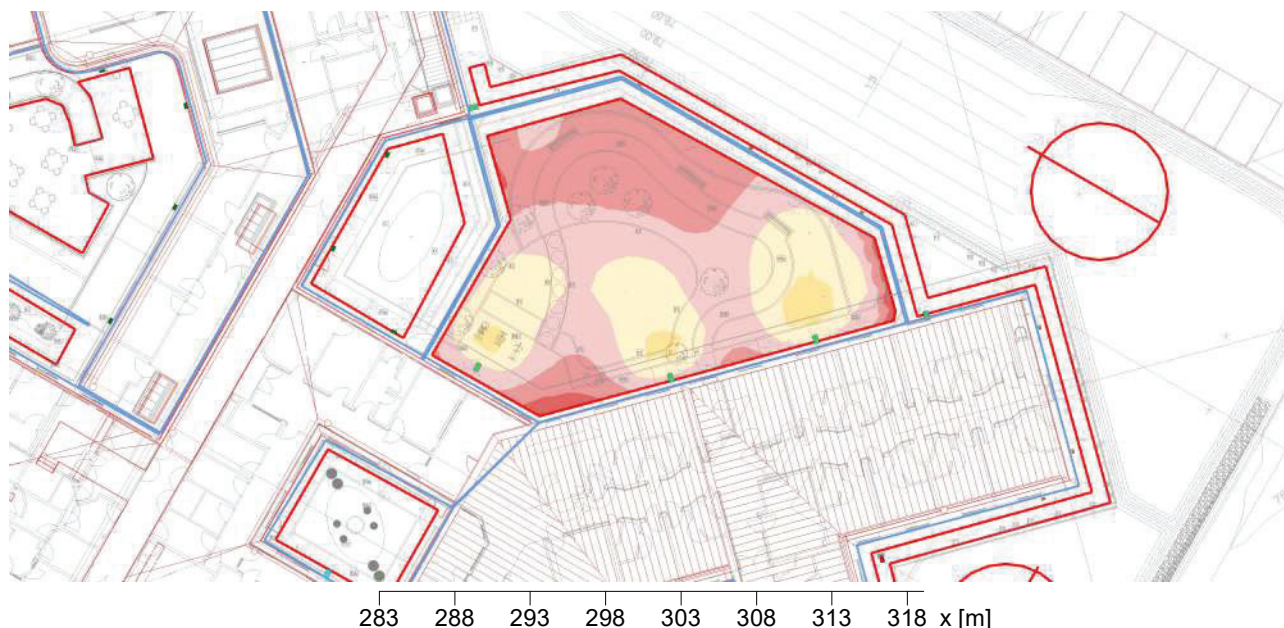
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.18 Result overview, Maintenance Only Garden 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.19 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	66 lx
Minimum illuminance	E_{min}	21 lx
Maximum illuminance	E_{max}	115 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.06 (0.33)
Diversity U_d	E_{min}/E_{max}	1:5.37 (0.19)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

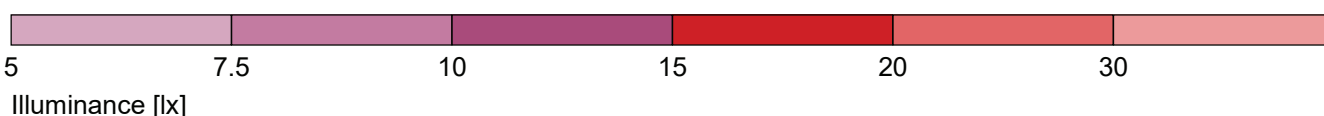
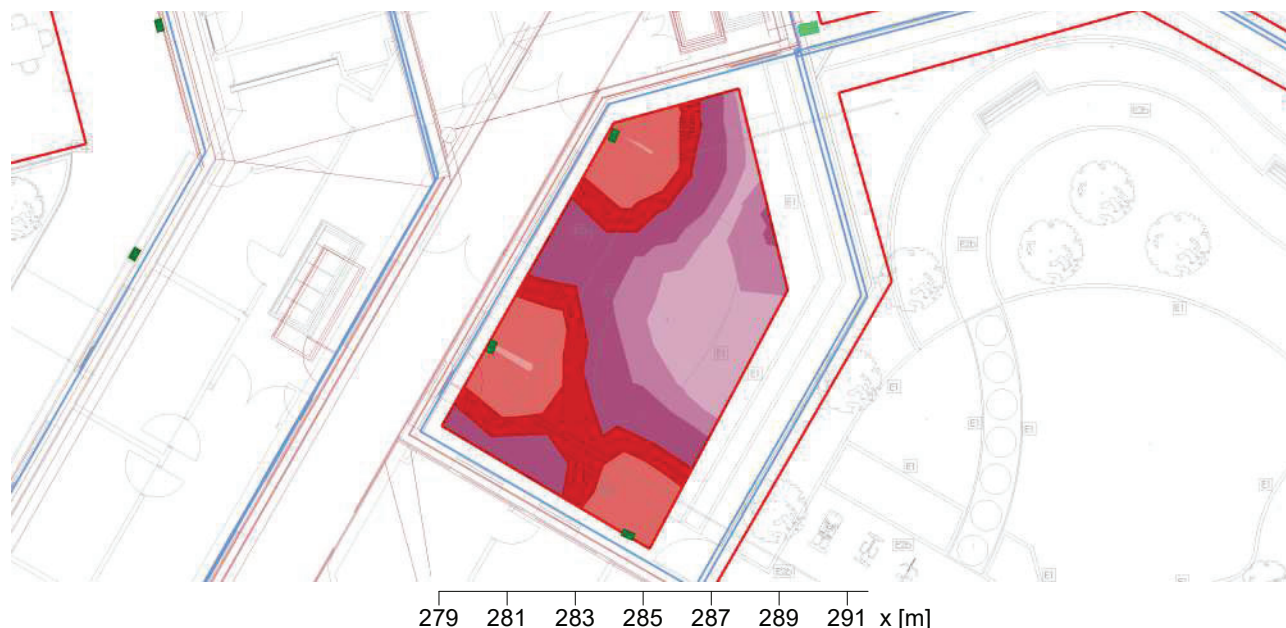
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.19 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.20 Result overview, Maintenance Only Garden 5lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

943400.2 lm
 9124 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	16 lx
Minimum illuminance	E_{min}	6 lx
Maximum illuminance	E_{max}	31 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.66 (0.38)
Diversity U_d	E_{min}/E_{max}	1:5.19 (0.19)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

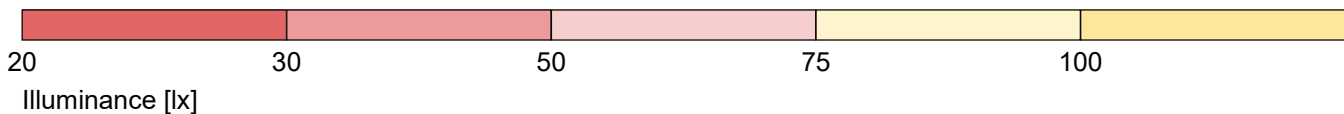
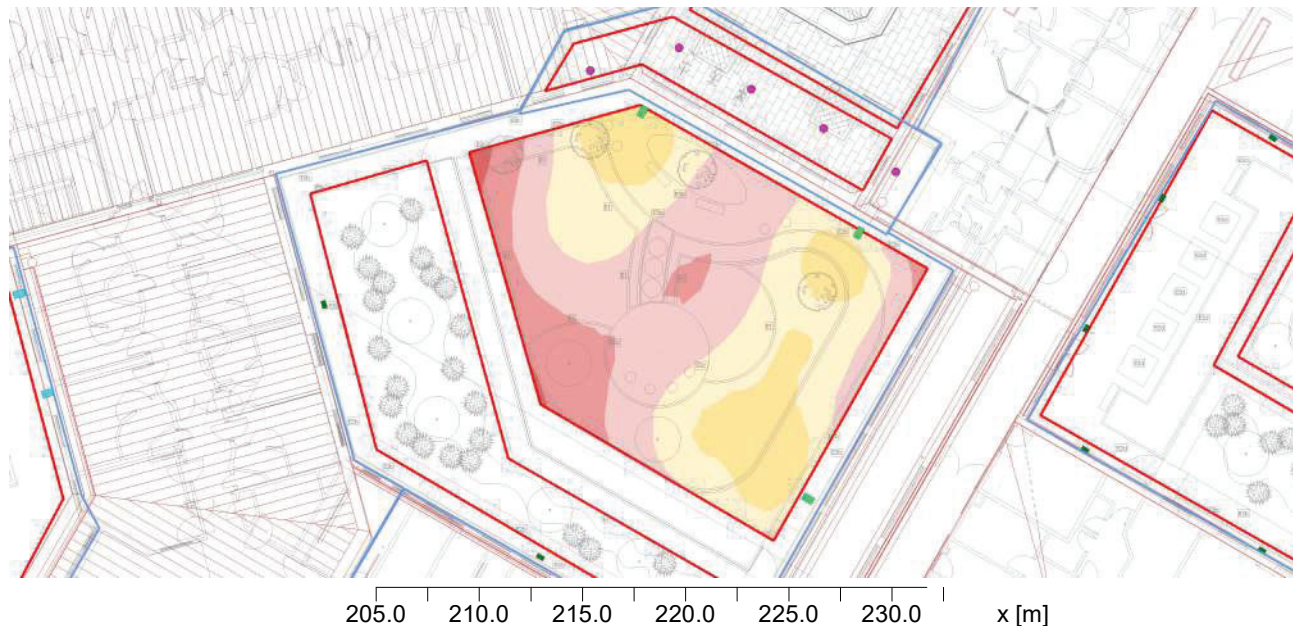
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.20 Result overview, Maintenance Only Garden 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.21 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

943400.2 lm
 9124 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	76 lx
Minimum illuminance	E_{min}	28 lx
Maximum illuminance	E_{max}	124 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.69 (0.37)
Diversity U_d	E_{min}/E_{max}	1:4.35 (0.23)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

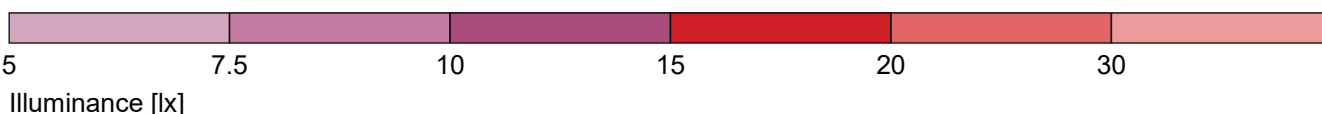
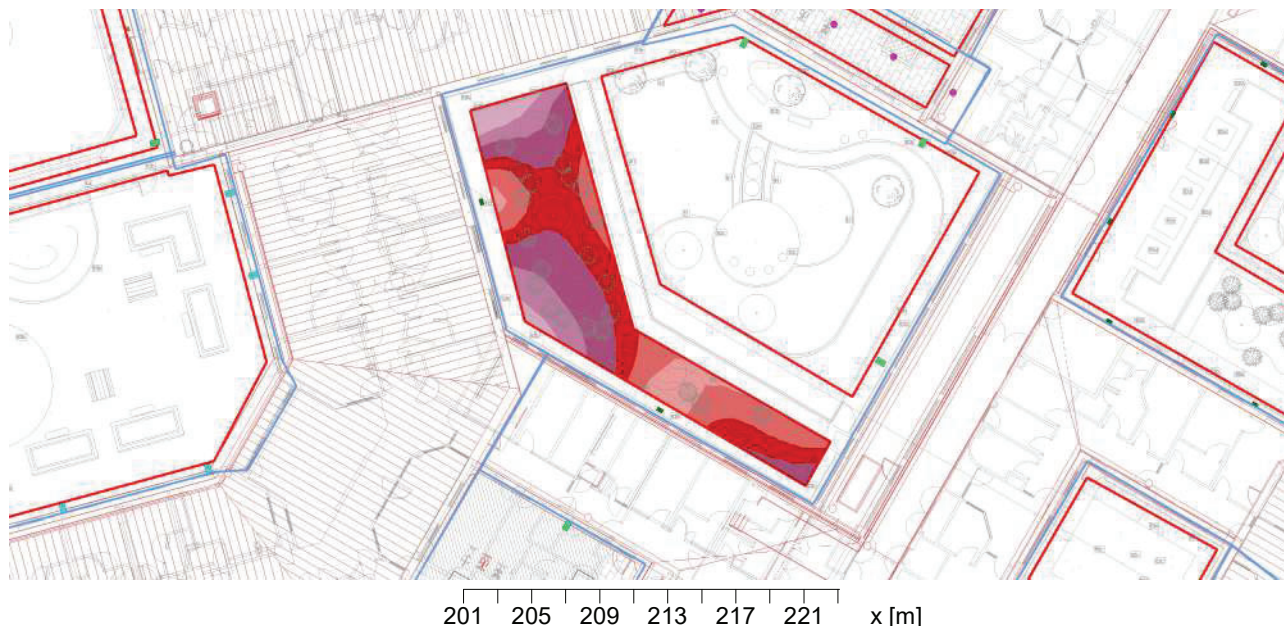
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.21 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.22 Result overview, Maintenance Only Garden 5lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

943400.2 lm
 9124 W
 0.10 W/m²

Illuminance

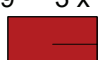
Average illuminance	$\bar{E}_m$	18 lx
Minimum illuminance	E_{min}	6 lx
Maximum illuminance	E_{max}	39 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.93 (0.34)
Diversity U_d	E_{min}/E_{max}	1:6.48 (0.15)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

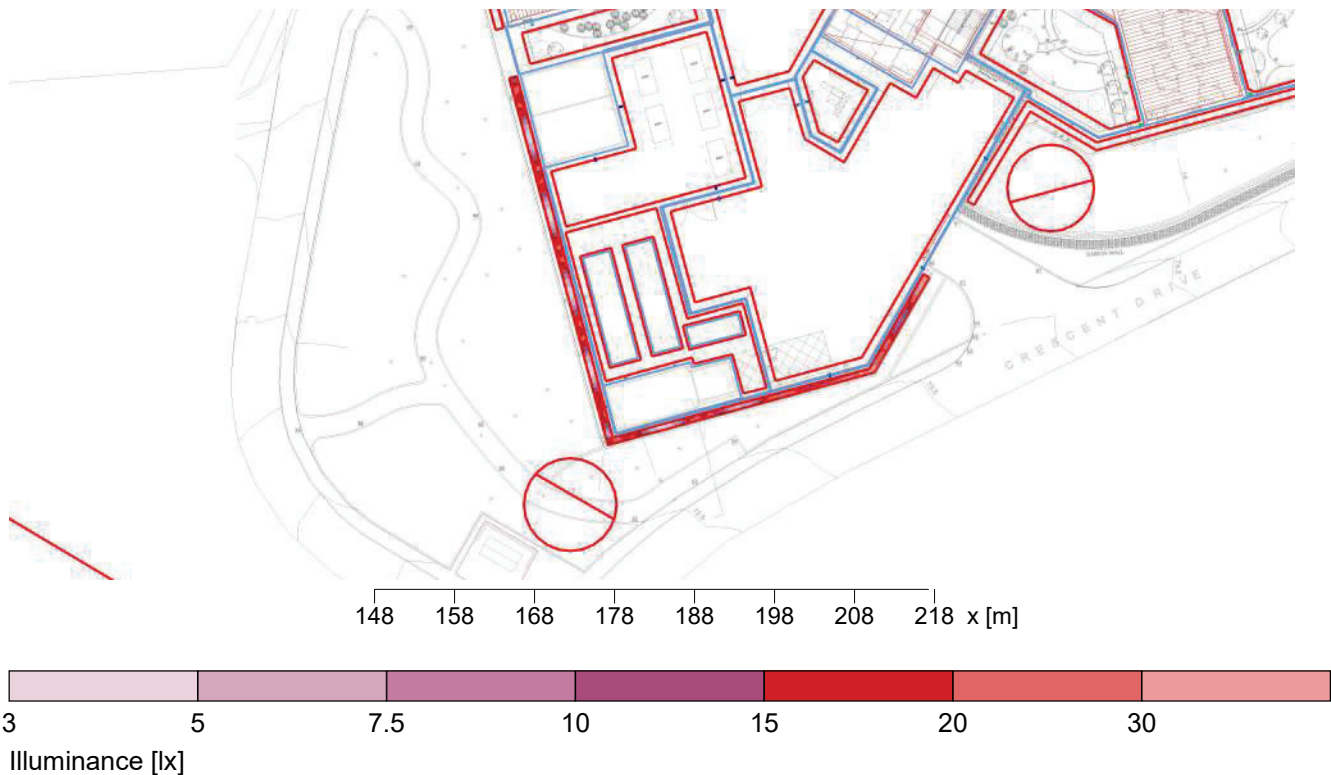
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.22 Result overview, Maintenance Only Garden 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.23 Result overview, Perimeter Path 1 5lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	16 lx
Minimum illuminance	E_{min}	4 lx
Maximum illuminance	E_{max}	43 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:4.04 (0.25)
Diversity U_d	E_{min}/E_{max}	1:10.6 (0.09)

Type No.\Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

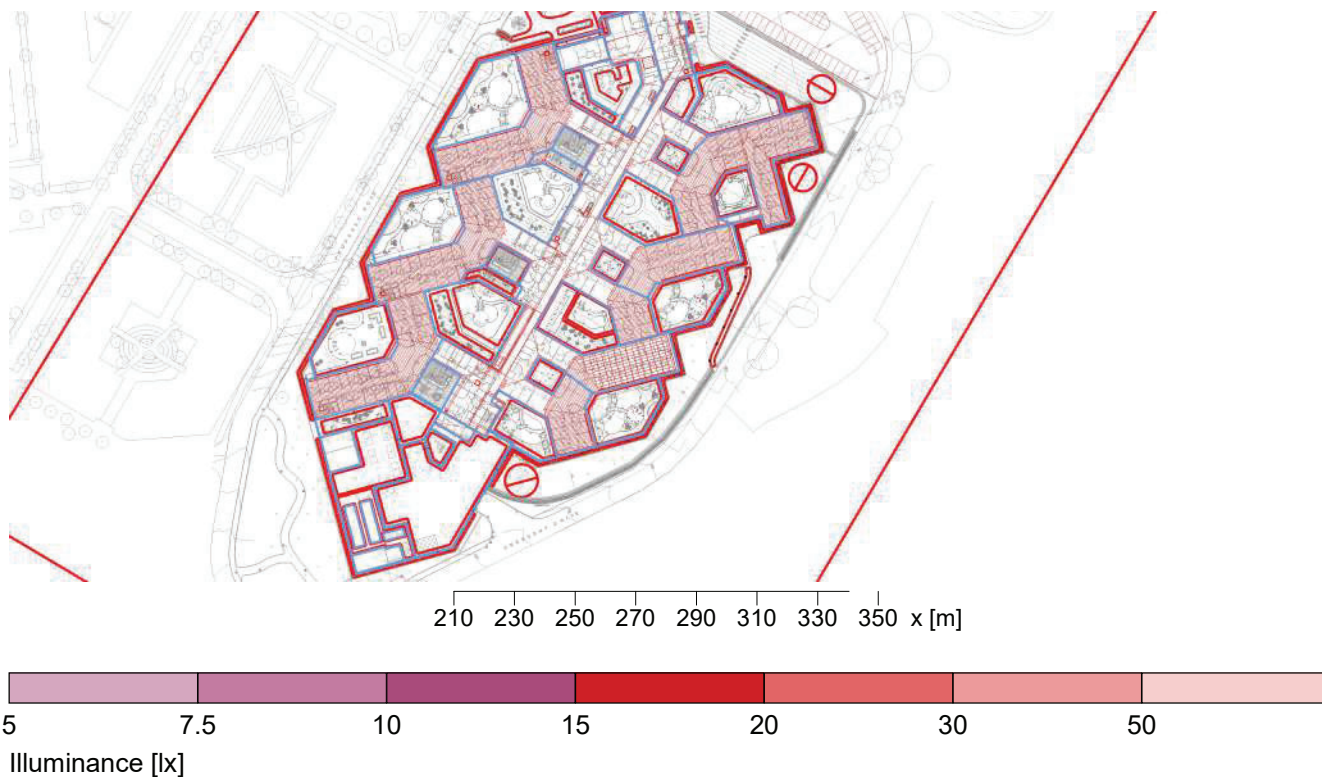
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.23 Result overview, Perimeter Path 1 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.24 Result overview, Perimeter Path 2 5lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	26 lx
Minimum illuminance	E_{min}	7 lx
Maximum illuminance	E_{max}	61 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.91 (0.26)
Diversity U_d	E_{min}/E_{max}	1:9.36 (0.11)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

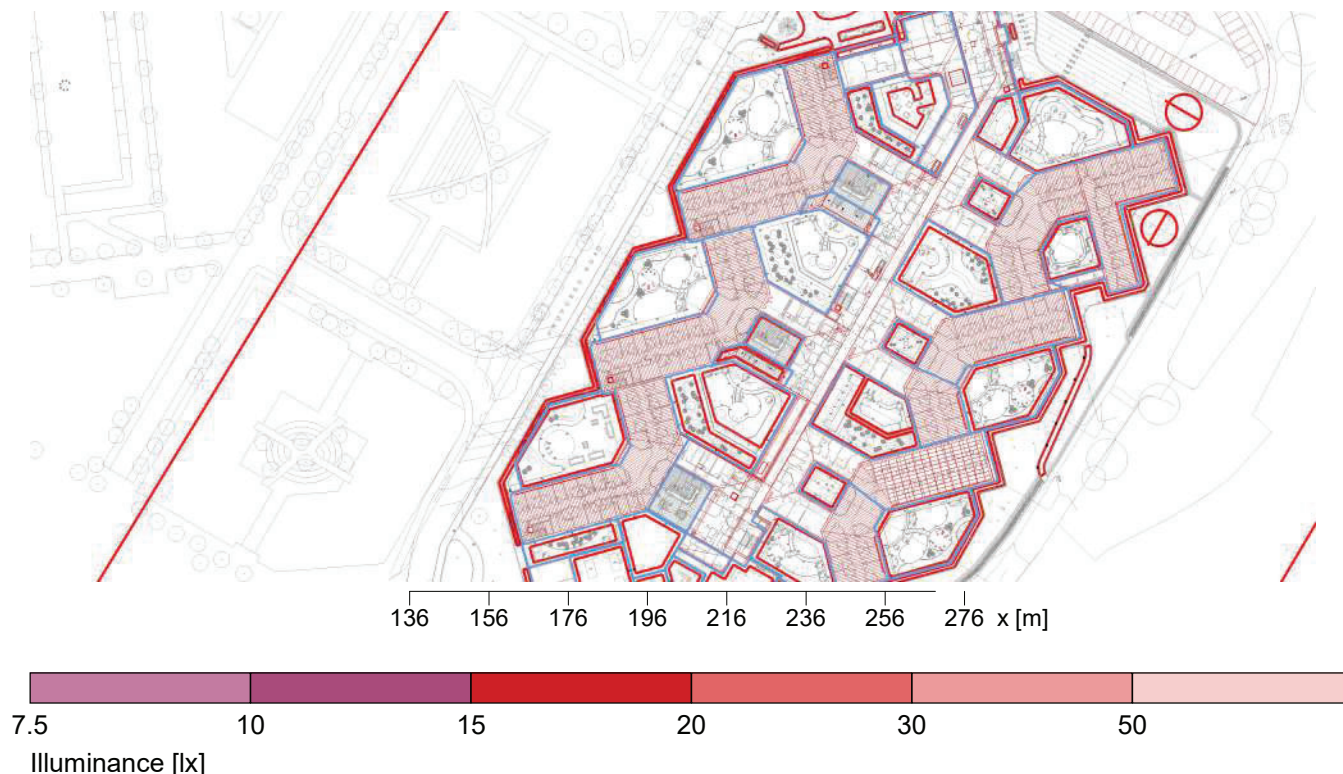
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.24 Result overview, Perimeter Path 2 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.25 Result overview, Perimeter Path 3 5lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan

Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	31 lx
Minimum illuminance	E_{min}	8 lx
Maximum illuminance	E_{max}	61 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.98 (0.25)
Diversity U_d	E_{min}/E_{max}	1:7.75 (0.13)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

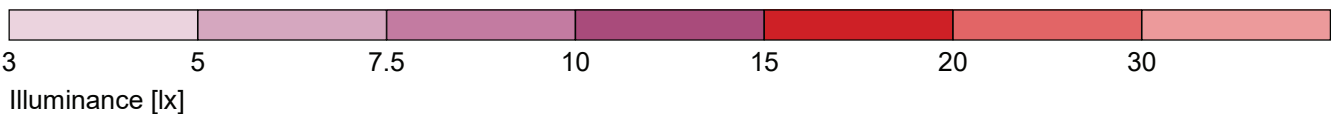
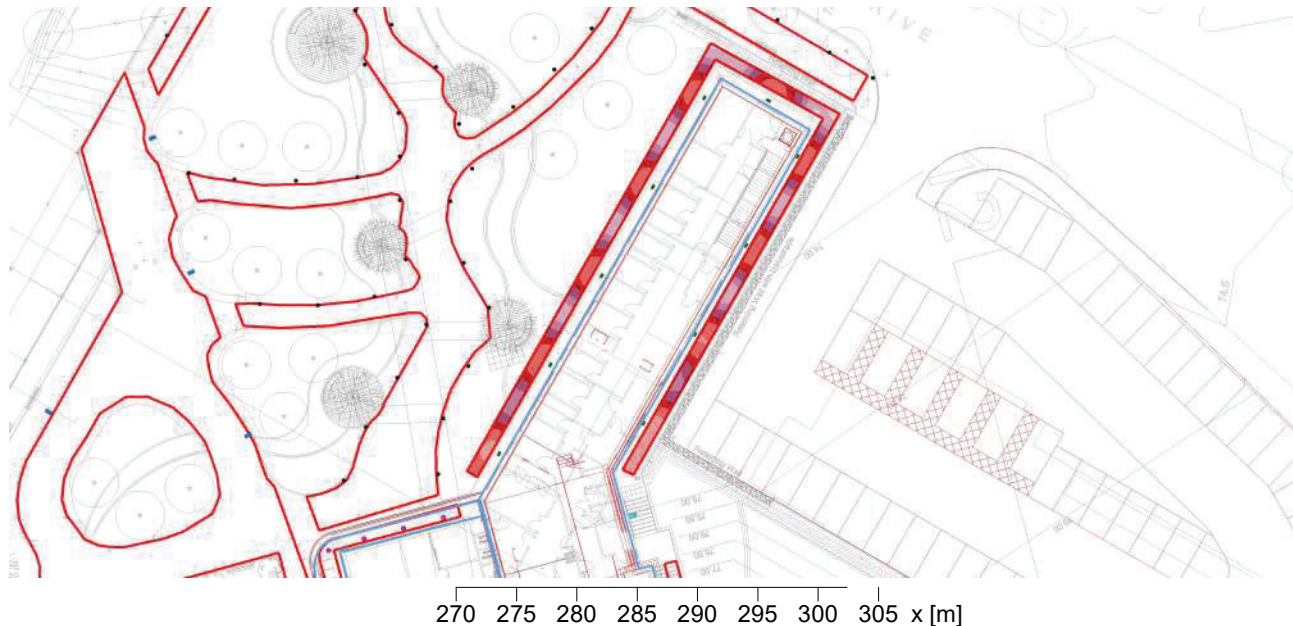
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.25 Result overview, Perimeter Path 3 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.26 Result overview, Perimeter Path 4 5lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	16 lx
Minimum illuminance	E_{min}	5 lx
Maximum illuminance	E_{max}	41 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.34 (0.3)
Diversity U_d	E_{min}/E_{max}	1:8.56 (0.12)

Type No. Make

Whitecroft Lighting		
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

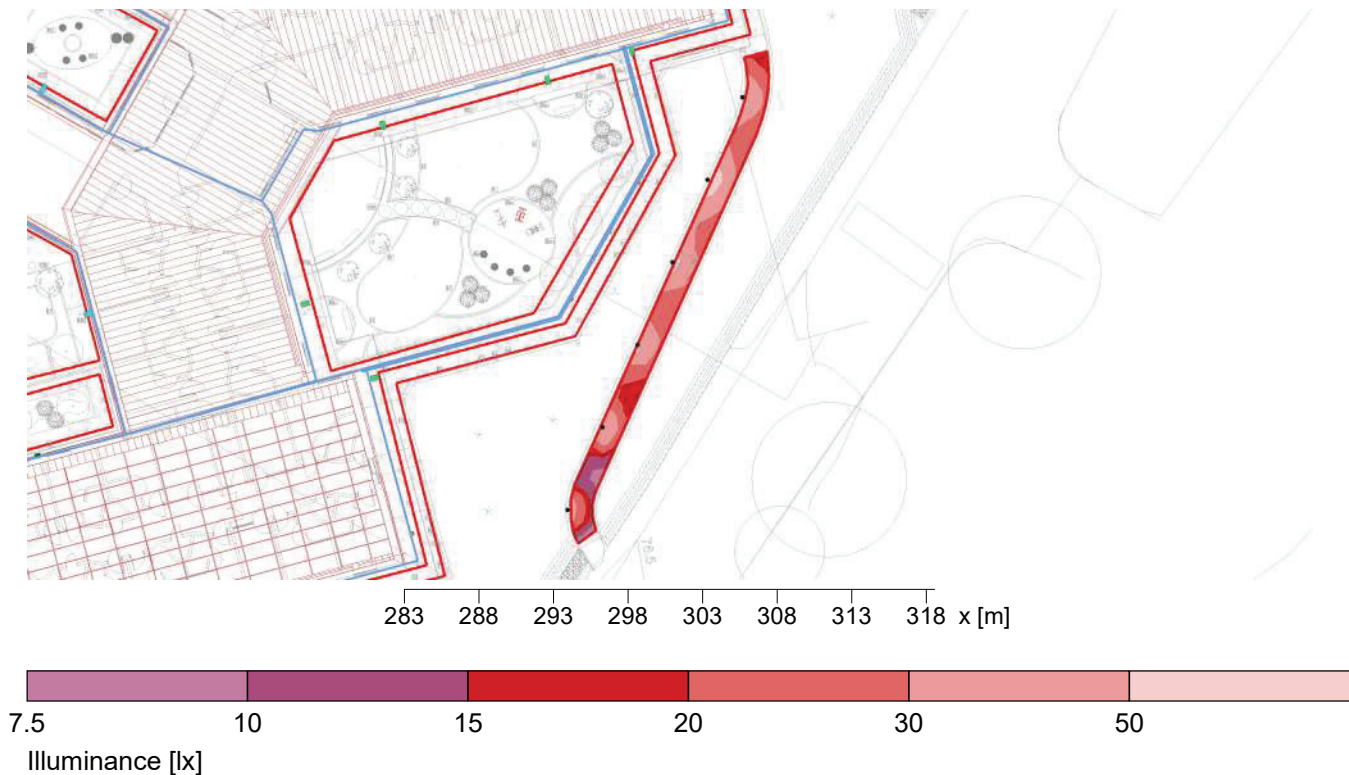
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.26 Result overview, Perimeter Path 4 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.27 Result overview, Secondary Walkway 5lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	28 lx
Minimum illuminance	E_{min}	9 lx
Maximum illuminance	E_{max}	63 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.24 (0.31)
Diversity U_d	E_{min}/E_{max}	1:7.19 (0.14)

Type No. Make

		Whitecroft Lighting
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

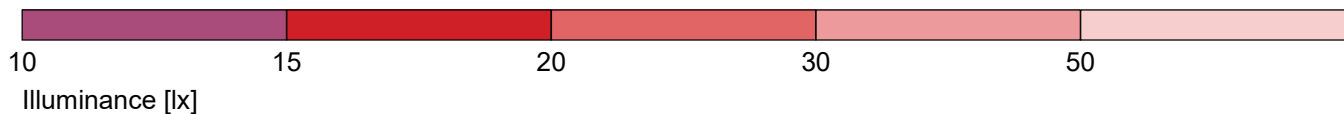
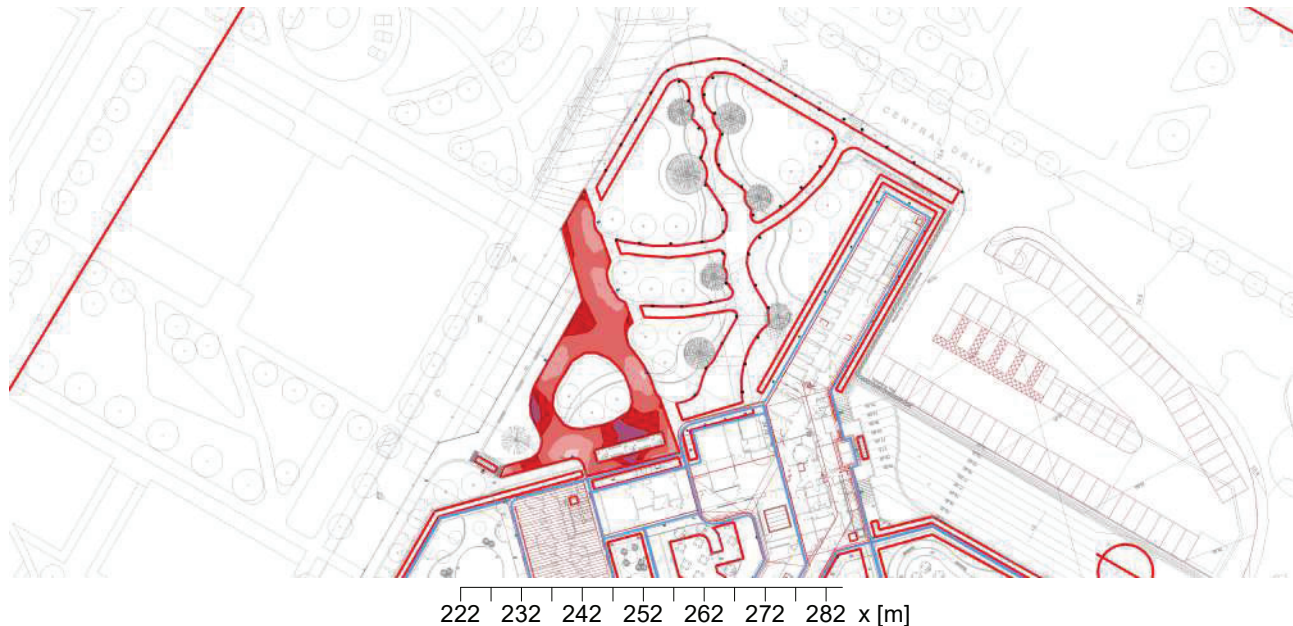
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.27 Result overview, Secondary Walkway 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.28 Result overview, Roadway 10lx 0.4Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan

Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	26 lx
Minimum illuminance	E_{min}	13 lx
Maximum illuminance	E_{max}	55 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.03 (0.49)
Diversity U_d	E_{min}/E_{max}	1:4.28 (0.23)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

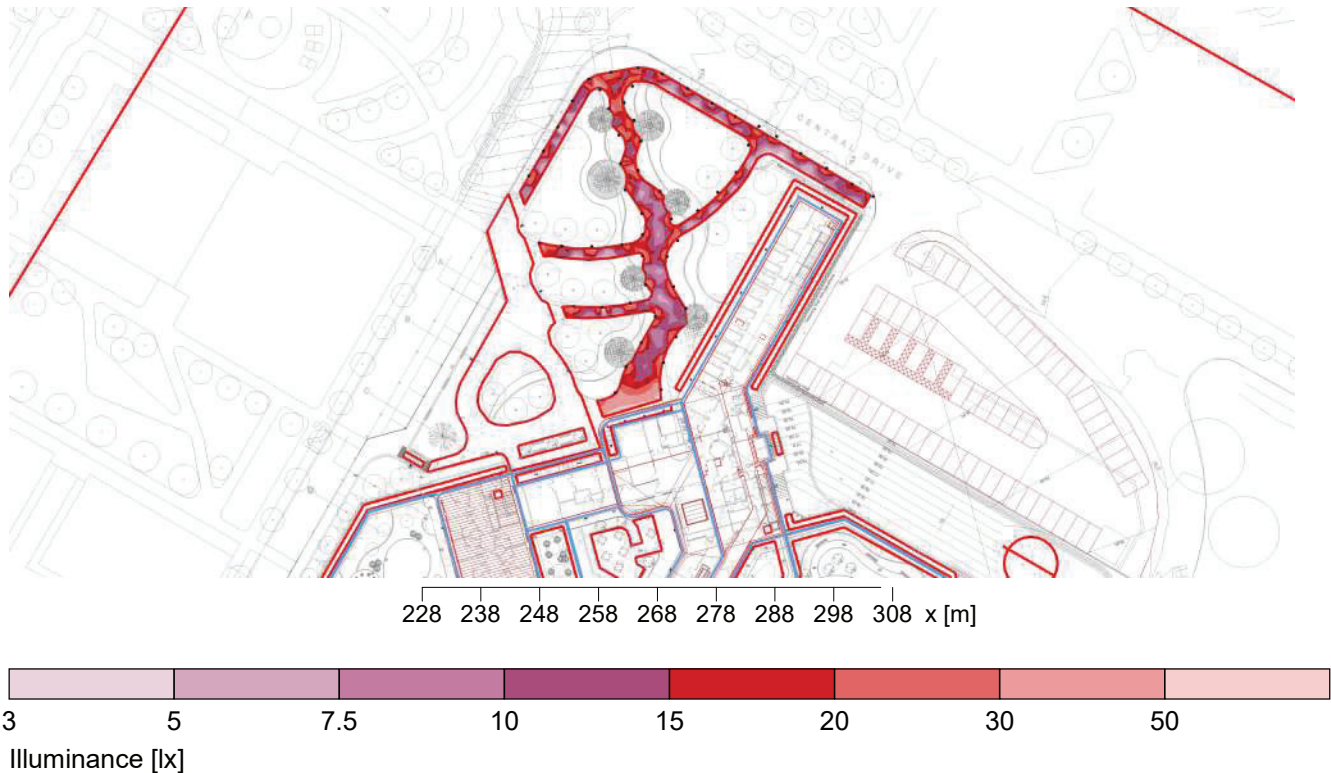
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.28 Result overview, Roadway 10lx 0.4Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.29 Result overview, Pedestrian Walkways 5lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	16 lx
Minimum illuminance	E_{min}	4 lx
Maximum illuminance	E_{max}	54 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.81 (0.26)
Diversity U_d	E_{min}/E_{max}	1:12.6 (0.08)

Type No. \ Make

Whitecroft Lighting		
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

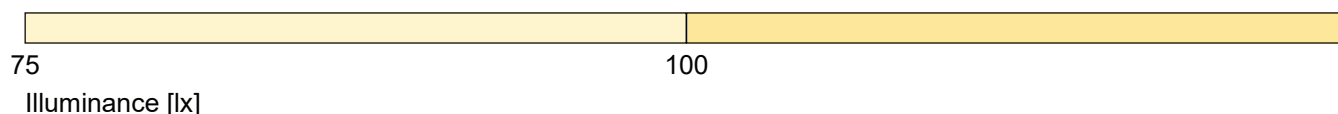
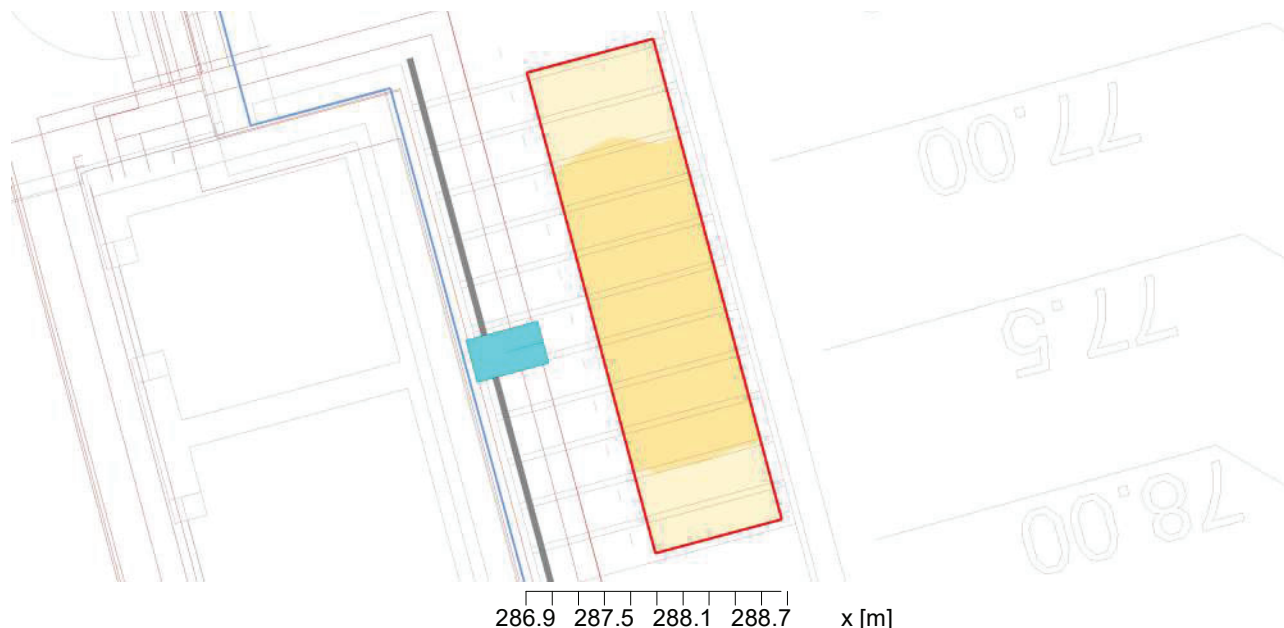
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.29 Result overview, Pedestrian Walkways 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.30 Result overview, Steps 1 100lx 0.4Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

943400.2 lm
 9124 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	101 lx
Minimum illuminance	E_{min}	98 lx
Maximum illuminance	E_{max}	105 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.04 (0.96)
Diversity U_d	E_{min}/E_{max}	1:1.08 (0.93)

Type No. Make

Whitecroft Lighting

1 2 x
 Order No. : AXLH214K
 Luminaire name : ACL EXTREME
 Equipment : 1 x LED 19 W / 2023.1 lm
 Maintenance factor: 0.68

2 20 x
 Order No. : EFLH24KG
 Luminaire name : EUROFLOOD MIDI LED
 Equipment : 1 x LED 81 W / 8528 lm
 Maintenance factor: 0.81

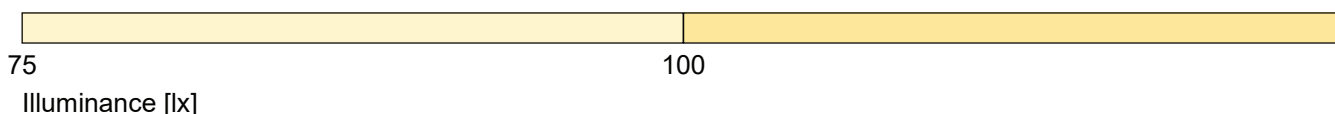
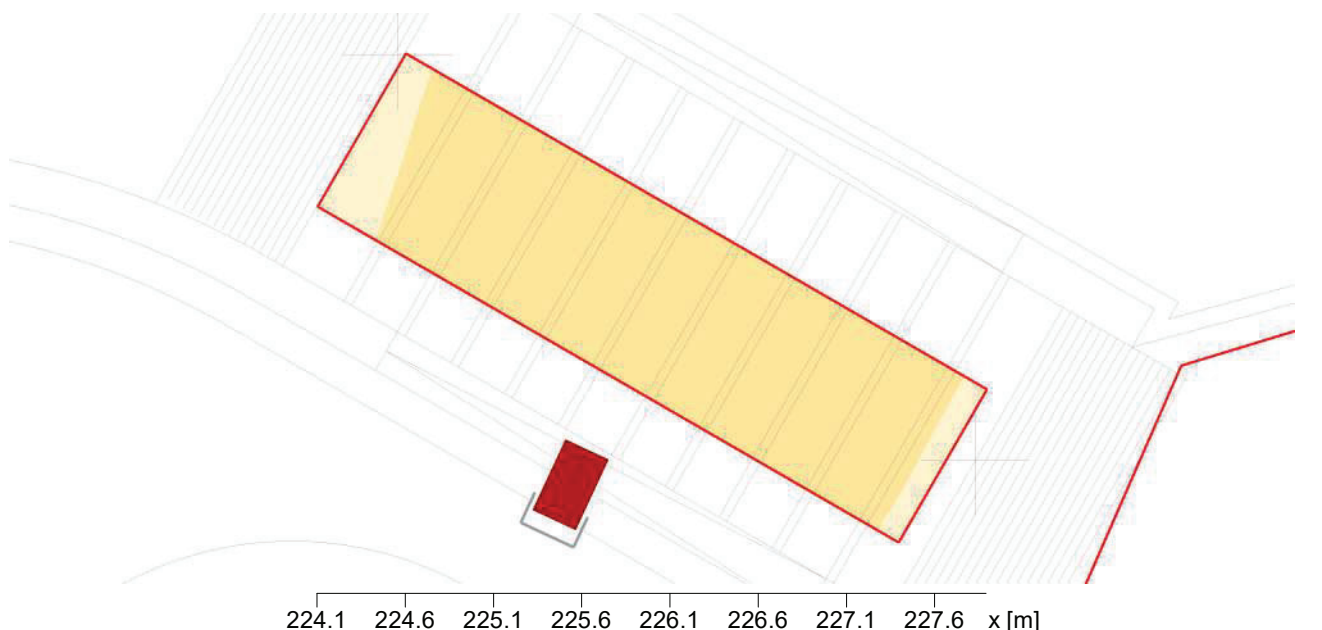
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.30 Result overview, Steps 1 100lx 0.4Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.31 Result overview, Steps 2 100lx 0.4Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

943400.2 lm
 9124 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	123 lx
Minimum illuminance	E_{min}	97 lx
Maximum illuminance	E_{max}	140 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.27 (0.79)
Diversity U_d	E_{min}/E_{max}	1:1.45 (0.69)

Type No.\Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

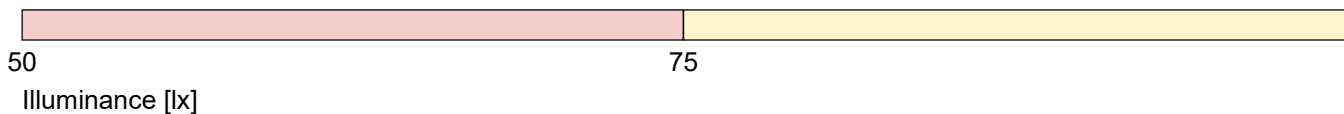
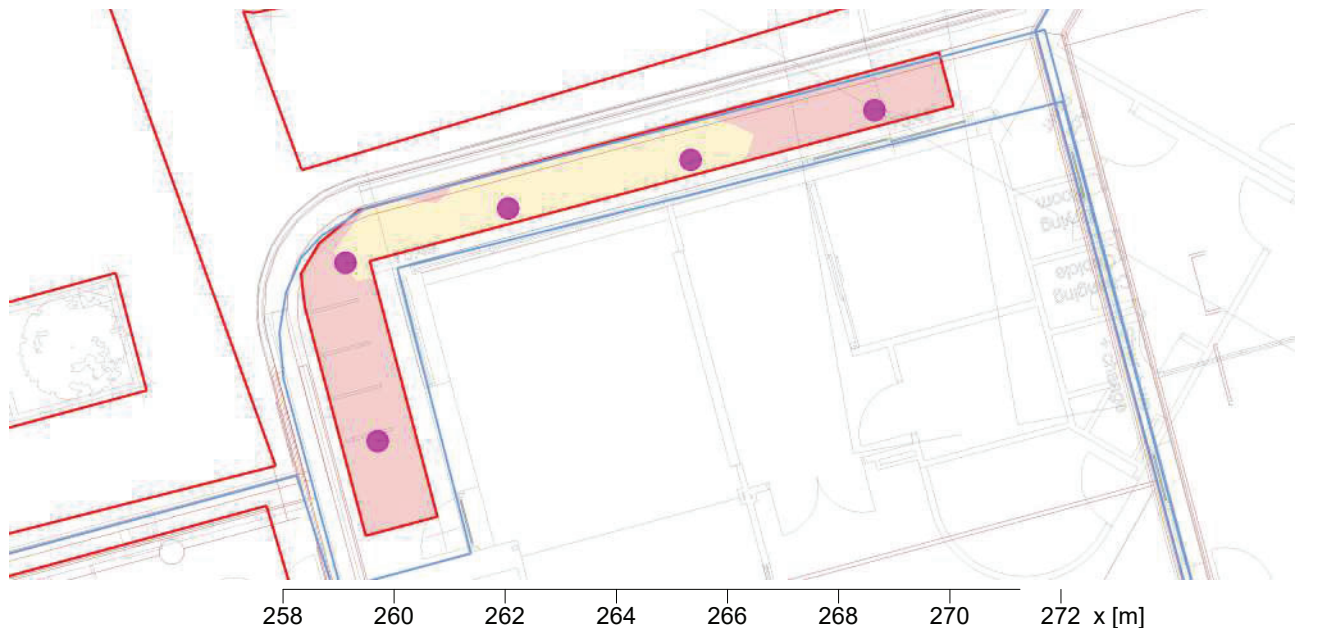
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.31 Result overview, Steps 2 100lx 0.4Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.32 Result overview, Entrance Canopy 75lx 0.4Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	71 lx
Minimum illuminance	E_{min}	54 lx
Maximum illuminance	E_{max}	81 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.31 (0.76)
Diversity U_d	E_{min}/E_{max}	1:1.49 (0.67)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

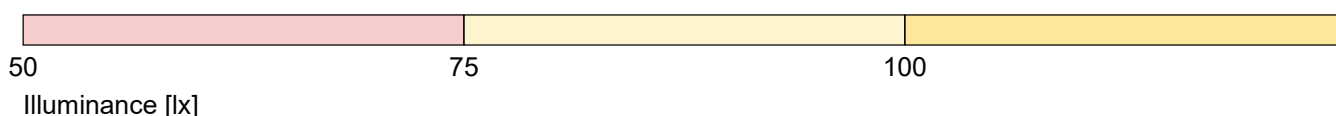
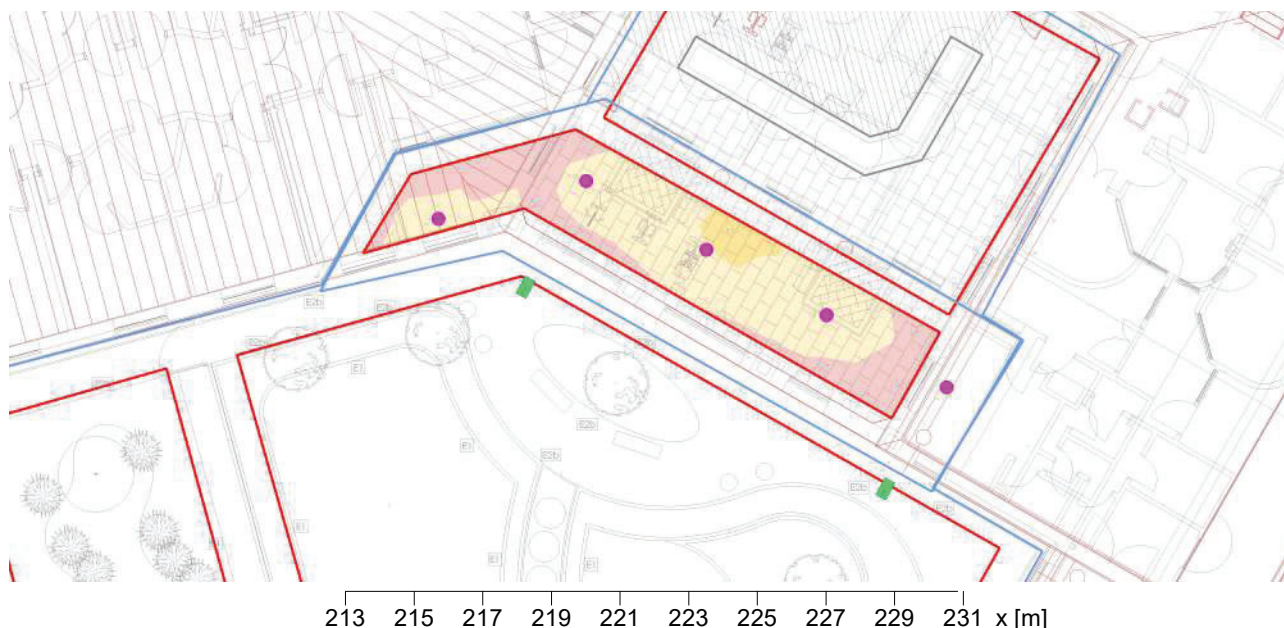
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.32 Result overview, Entrance Canopy 75lx 0.4Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.33 Result overview, Service User Garden Overhang 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	83 lx
Minimum illuminance	E_{min}	59 lx
Maximum illuminance	E_{max}	105 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.4 (0.71)
Diversity U_d	E_{min}/E_{max}	1:1.77 (0.56)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

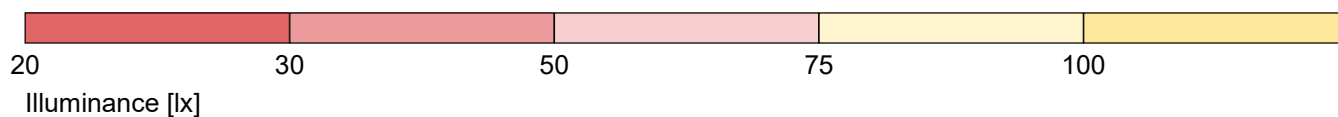
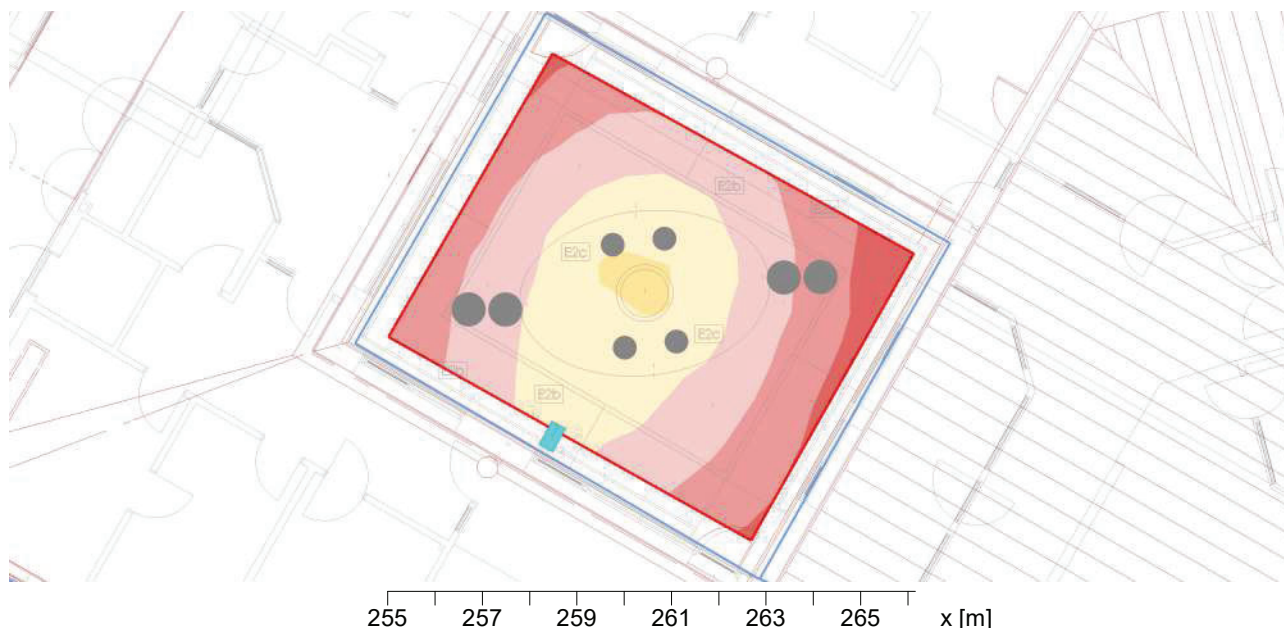
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.33 Result overview, Service User Garden Overhang 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.34 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan

Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	64 lx
Minimum illuminance	E_{min}	29 lx
Maximum illuminance	E_{max}	107 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.22 (0.45)
Diversity U_d	E_{min}/E_{max}	1:3.67 (0.27)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

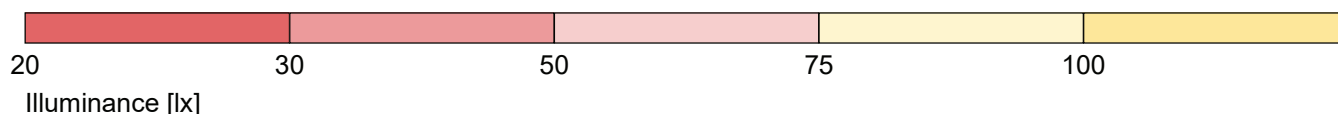
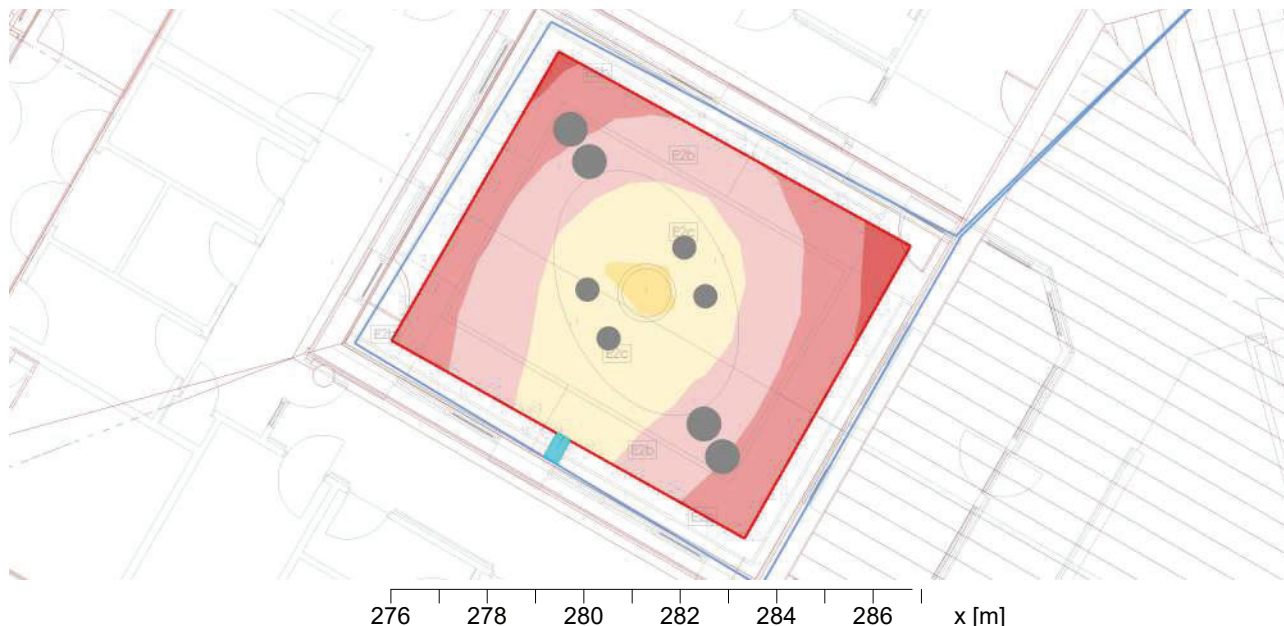
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.34 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.35 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

943400.2 lm
 9124 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	65 lx
Minimum illuminance	E_{min}	28 lx
Maximum illuminance	E_{max}	107 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.29 (0.44)
Diversity U_d	E_{min}/E_{max}	1:3.77 (0.27)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

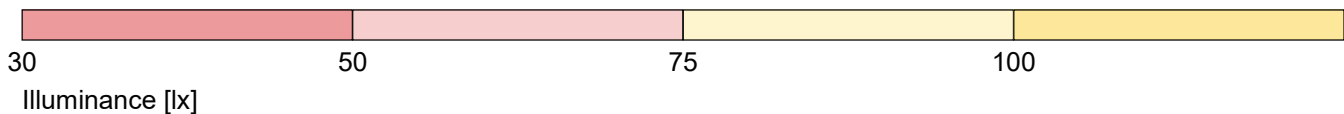
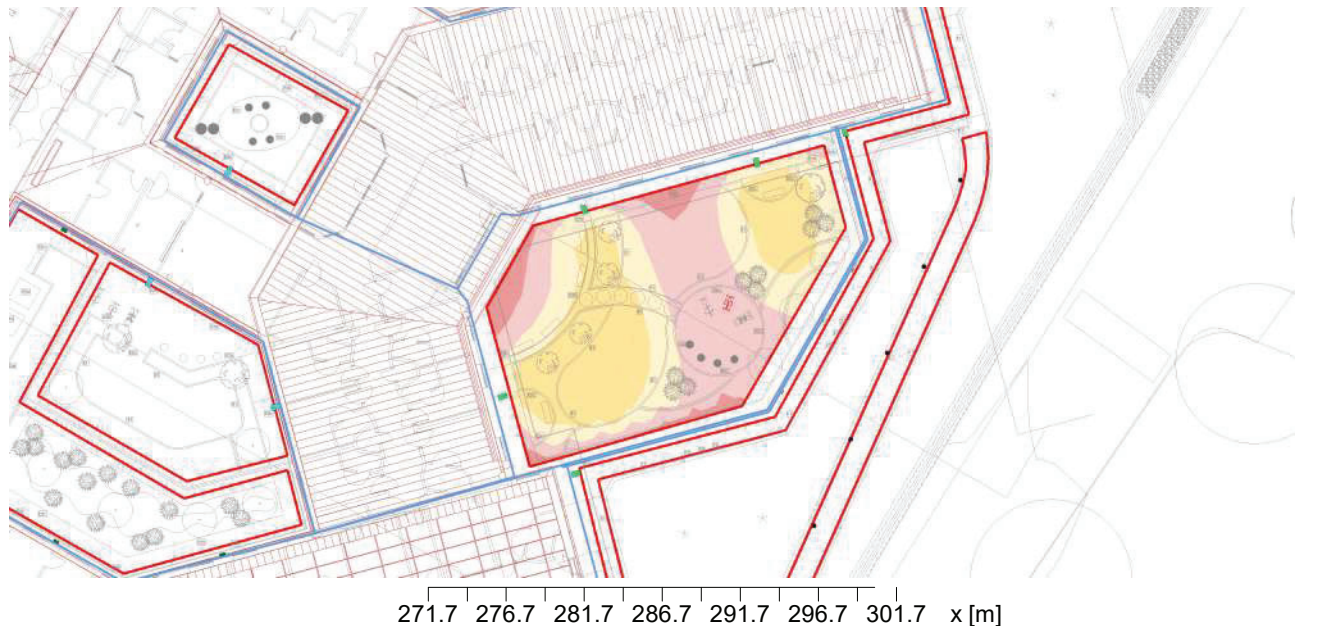
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.35 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.36 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	86 lx
Minimum illuminance	E_{min}	36 lx
Maximum illuminance	E_{max}	136 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.4 (0.42)
Diversity U_d	E_{min}/E_{max}	1:3.8 (0.26)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

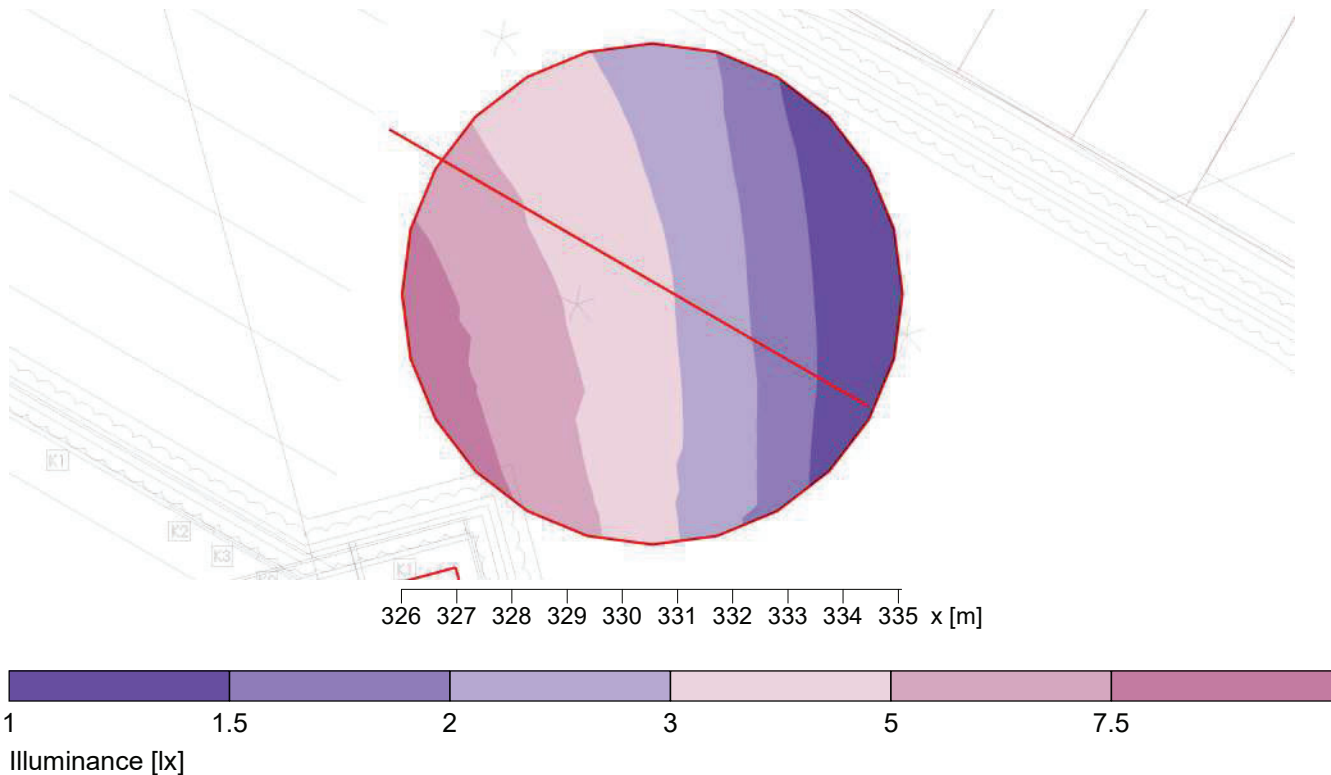
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.36 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.37 Result overview, BAT BOX AREA (1)



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	4 lx
Minimum illuminance	E_{min}	1 lx
Maximum illuminance	E_{max}	9 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.41 (0.29)
Diversity U_d	E_{min}/E_{max}	1:8.72 (0.11)

Type No. Make

Whitecroft Lighting

1 2 x
 Order No. : AXLH214K
 Luminaire name : ACL EXTREME
 Equipment : 1 x LED 19 W / 2023.1 lm
 Maintenance factor: 0.68

2 20 x
 Order No. : EFLH24KG
 Luminaire name : EUROFLOOD MIDI LED
 Equipment : 1 x LED 81 W / 8528 lm
 Maintenance factor: 0.81

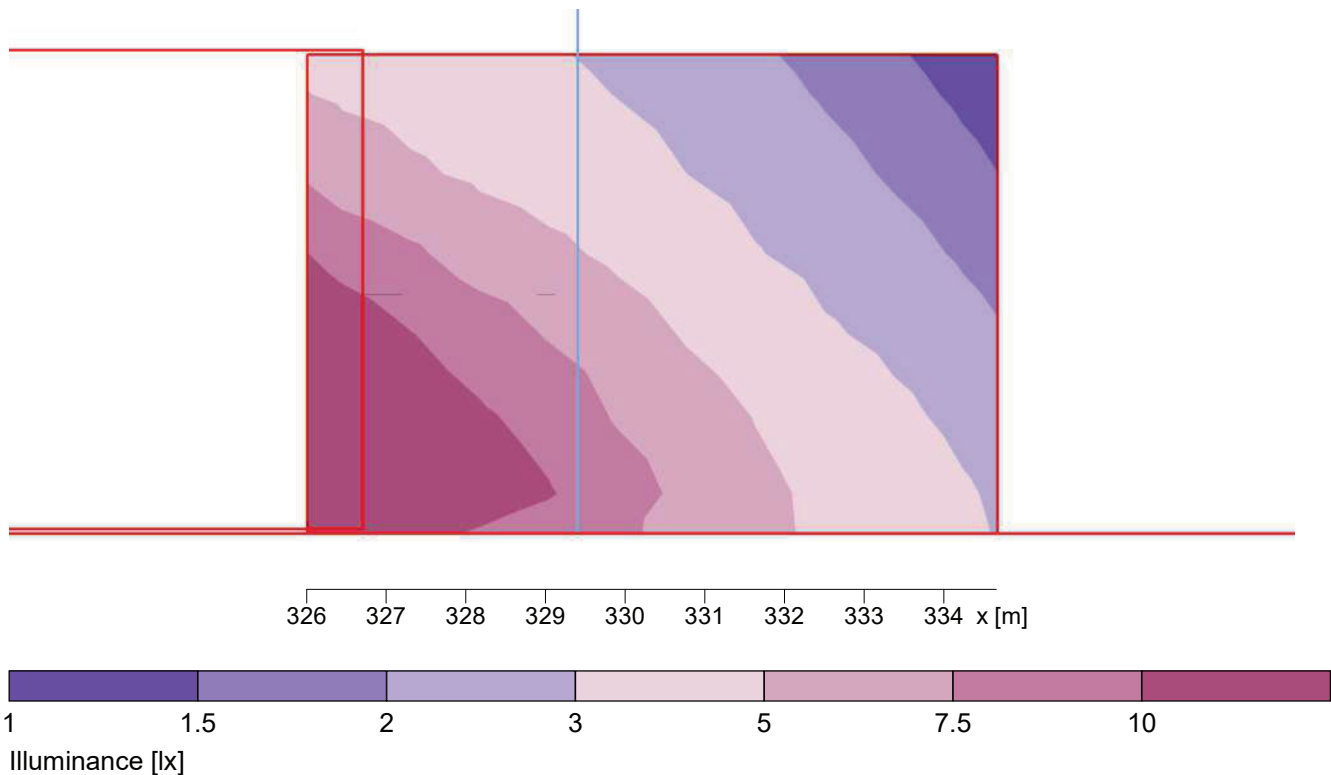
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.37 Result overview, BAT BOX AREA (1)

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.38 Result overview, BAT BOX AREA (1) VERTICAL



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	5 lx
Minimum illuminance	E_{min}	1 lx
Maximum illuminance	E_{max}	13 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.79 (0.26)
Diversity U_d	E_{min}/E_{max}	1:9.22 (0.11)

Type No. Make

Whitecroft Lighting		
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

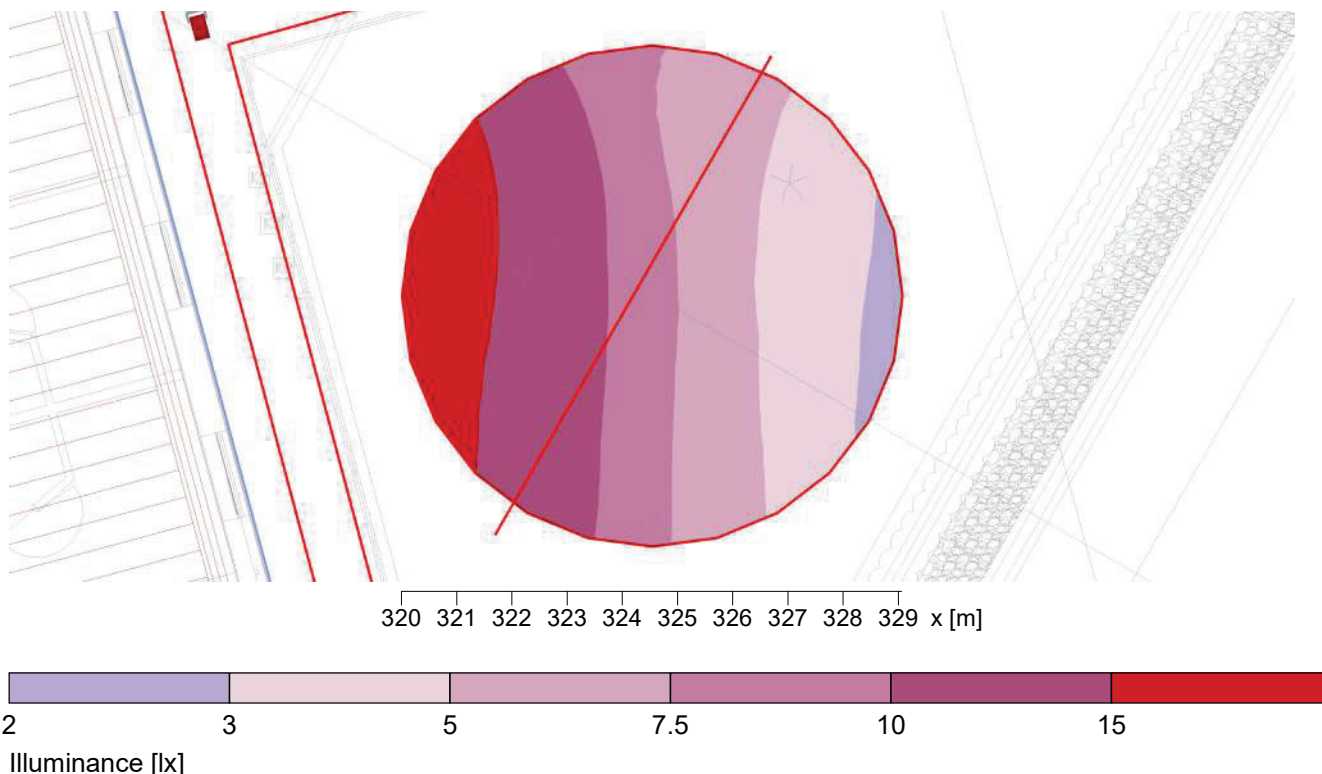
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.38 Result overview, BAT BOX AREA (1) VERTICAL

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.39 Result overview, BAT BOX AREA (2)



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	9 lx
Minimum illuminance	E_{min}	3 lx
Maximum illuminance	E_{max}	20 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.38 (0.3)
Diversity U_d	E_{min}/E_{max}	1:7.6 (0.13)

Type No. Make

Whitecroft Lighting

1 2 x
 Order No. : AXLH214K
 Luminaire name : ACL EXTREME
 Equipment : 1 x LED 19 W / 2023.1 lm
 Maintenance factor: 0.68

2 20 x
 Order No. : EFLH24KG
 Luminaire name : EUROFLOOD MIDI LED
 Equipment : 1 x LED 81 W / 8528 lm
 Maintenance factor: 0.81

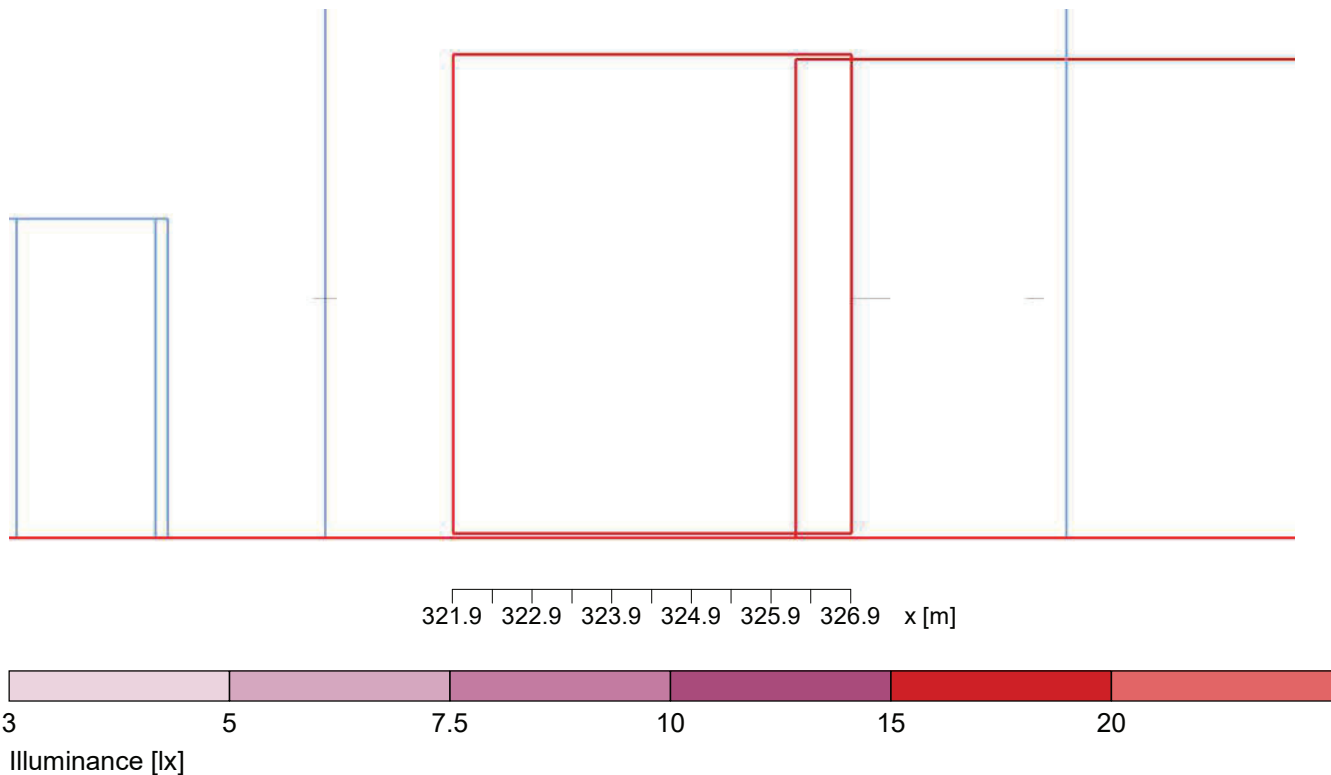
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.39 Result overview, BAT BOX AREA (2)

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.40 Result overview, BAT BOX AREA (2) VERTICAL



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	13 lx
Minimum illuminance	E_{min}	3 lx
Maximum illuminance	E_{max}	27 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:4.26 (0.23)
Diversity U_d	E_{min}/E_{max}	1:8.92 (0.11)

Type No.\Make

Whitecroft Lighting		
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

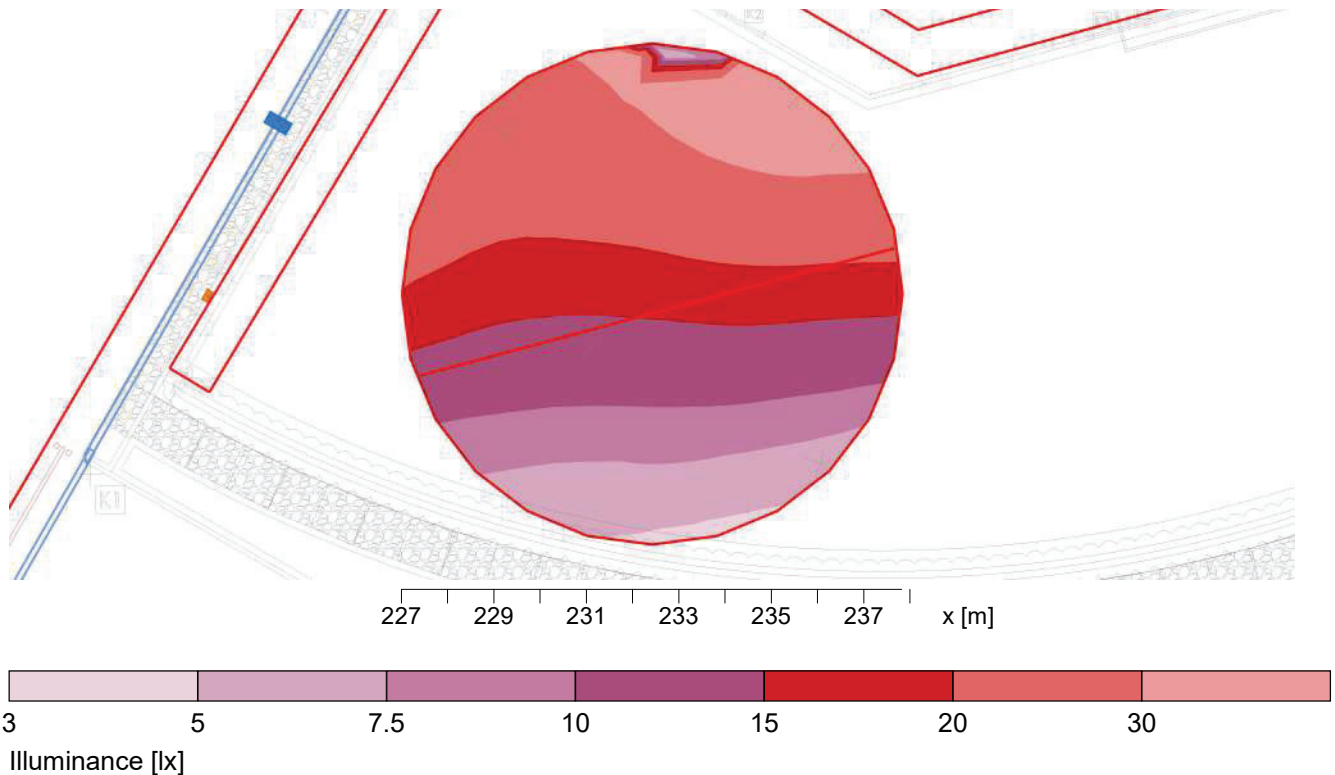
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.40 Result overview, BAT BOX AREA (2) VERTICAL

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.41 Result overview, BAT BOX AREA (3)



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	943400.2 lm
Total power	9124 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	18 lx
Minimum illuminance	E_{min}	5 lx
Maximum illuminance	E_{max}	40 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.89 (0.26)
Diversity U_d	E_{min}/E_{max}	1:8.81 (0.11)

Type No.\Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

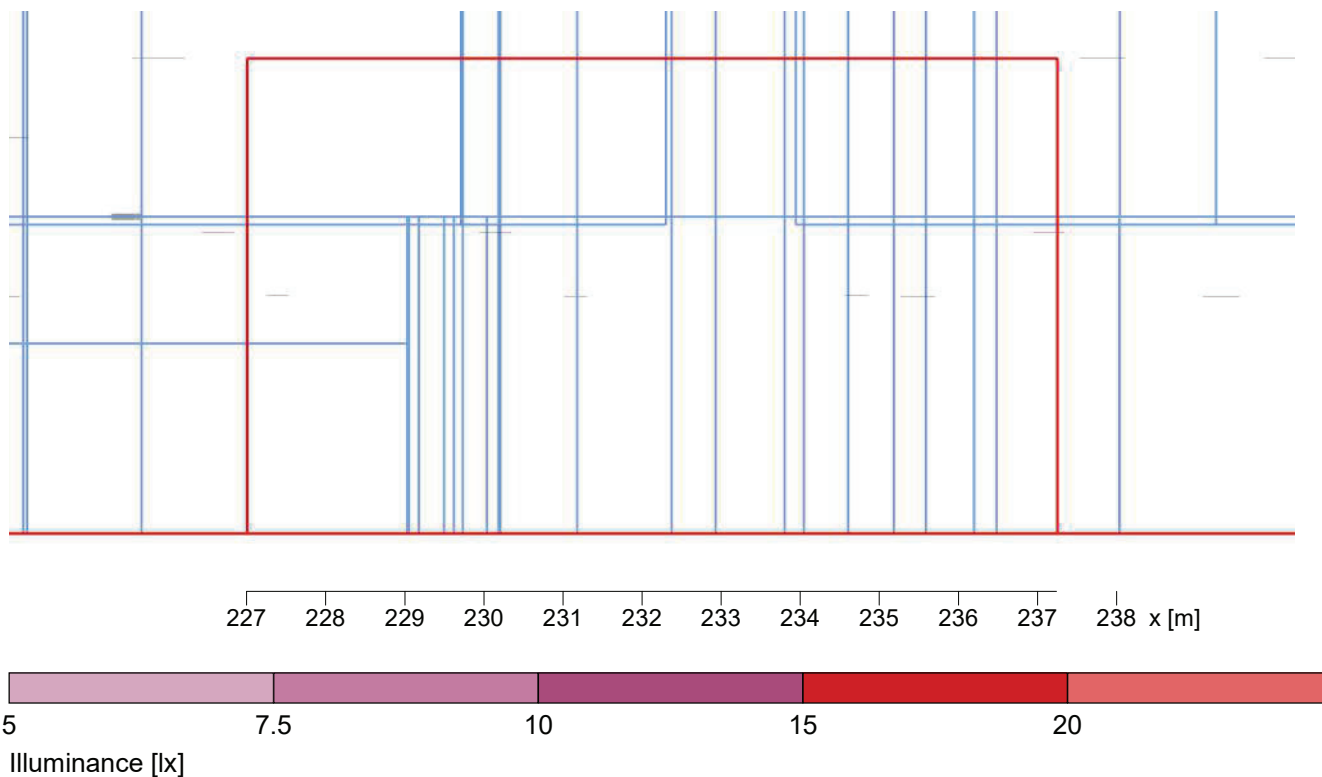
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.41 Result overview, BAT BOX AREA (3)

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.42 Result overview, BAT BOX AREA (3) VERTICAL



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	14 lx
Minimum illuminance	E_{min}	6 lx
Maximum illuminance	E_{max}	22 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.19 (0.46)
Diversity U_d	E_{min}/E_{max}	1:3.58 (0.28)

Type No. Make

Whitecroft Lighting

1 2 x
 Order No. : AXLH214K
 Luminaire name : ACL EXTREME
 Equipment : 1 x LED 19 W / 2023.1 lm
 Maintenance factor: 0.68

2 20 x
 Order No. : EFLH24KG
 Luminaire name : EUROFLOOD MIDI LED
 Equipment : 1 x LED 81 W / 8528 lm
 Maintenance factor: 0.81

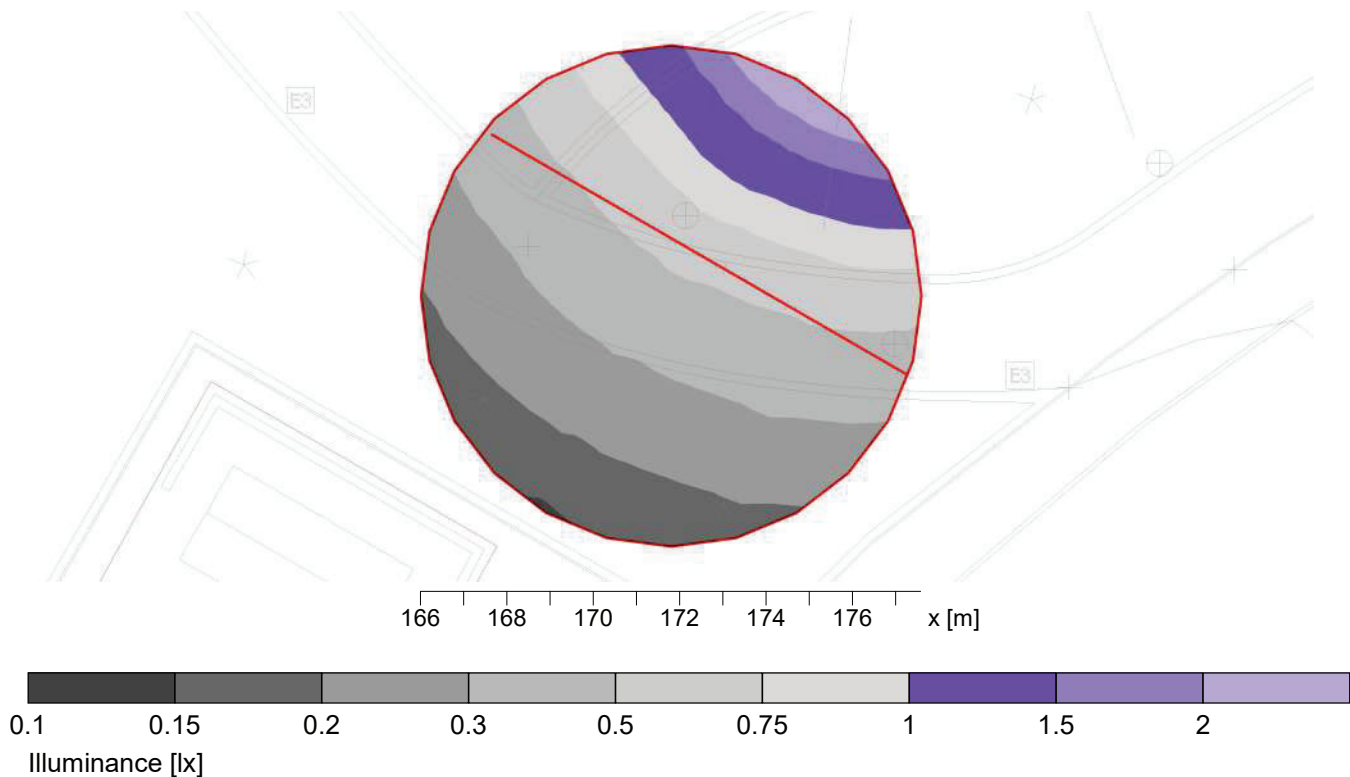
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.42 Result overview, BAT BOX AREA (3) VERTICAL

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.43 Result overview, BAT BOX AREA (4)



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	0.5 lx
Minimum illuminance	E_{min}	0.1 lx
Maximum illuminance	E_{max}	3 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.7 (0.27)
Diversity U_d	E_{min}/E_{max}	1:17 (0.06)

Type No. Make

Whitecroft Lighting

1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68

2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

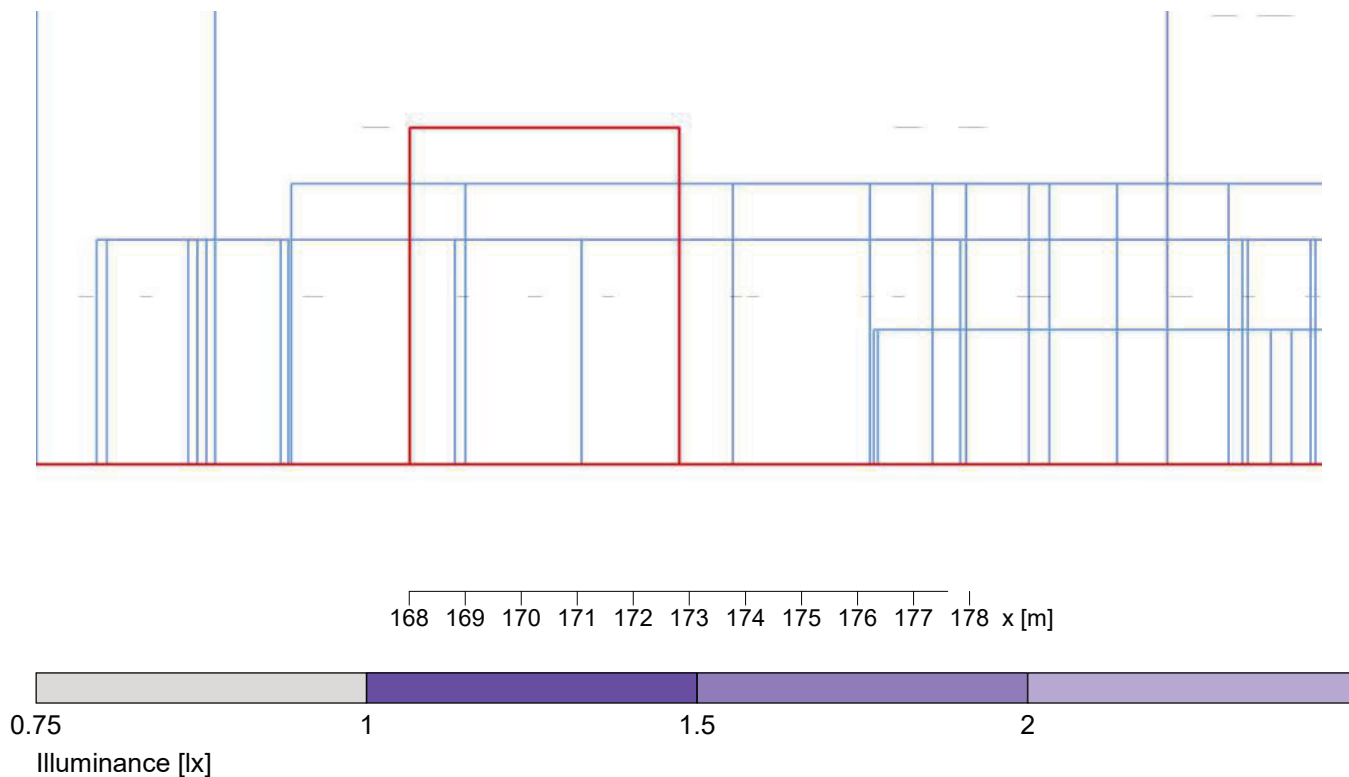
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.43 Result overview, BAT BOX AREA (4)

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.44 Result overview, BAT BOX AREA (4) VERTICAL



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 see luminaires / maintenance plan

Total luminous flux 943400.2 lm
 Total power 9124 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	2 lx
Minimum illuminance	E_{min}	1.0 lx
Maximum illuminance	E_{max}	3 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.69 (0.59)
Diversity U_d	E_{min}/E_{max}	1:2.63 (0.38)

Type No.\Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

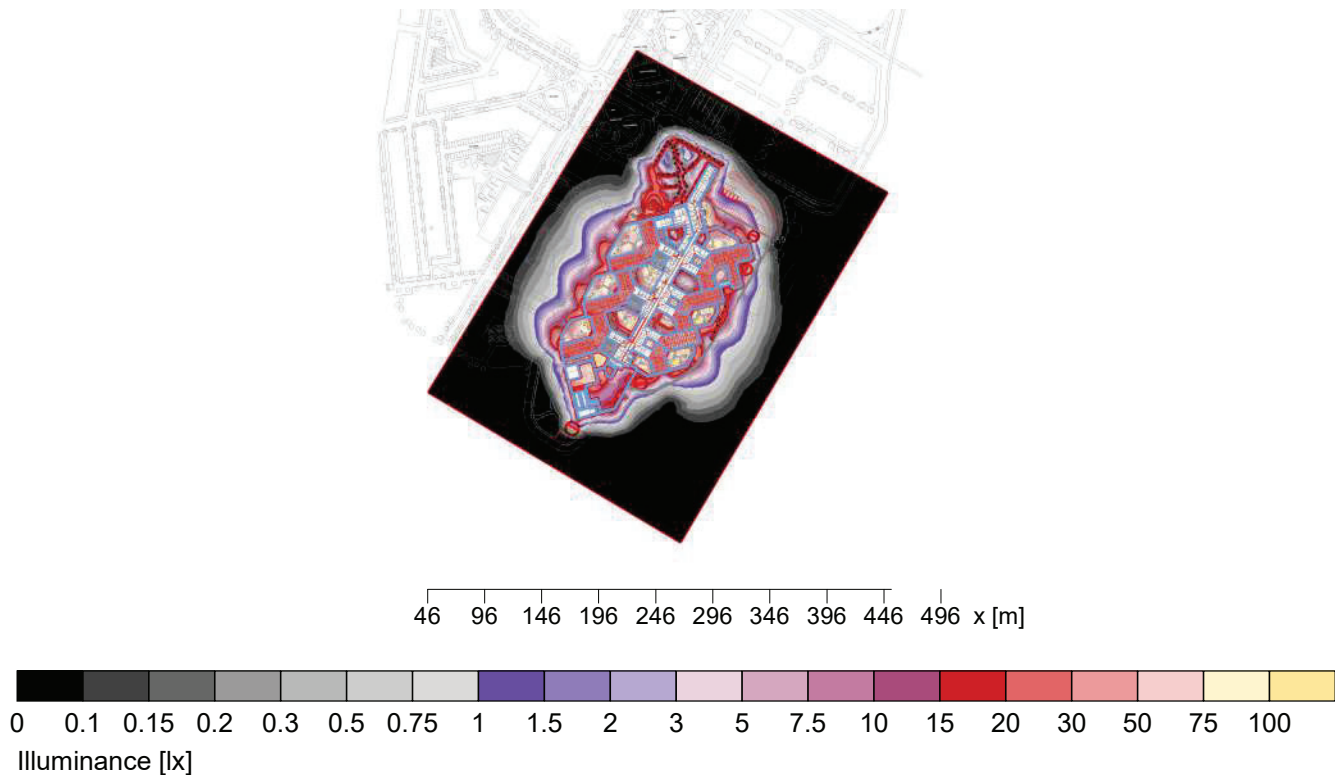
2.2 Summary, 5lx Perimeter - Centurion L65

2.2.44 Result overview, BAT BOX AREA (4) VERTICAL

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.45 Result overview, Overall



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.67 m²)

943400.19 lm
 9124.0 W
 0.10 W/m² (1.45 W/m²/100lx)

Overall

Reference plane 1.1

Horizontal
 $\bar{E}_m$ 7 lx
 E_{min} 0.0 lx
 $E_{min}/\bar{E}_m (U_o)$ 0.00
 $E_{min}/E_{max} (U_d)$ 0.00
 Position 0.00 m

Type No.\Make

Whitecroft Lighting

1 2 x
 Order No. : AXLH214K
 Luminaire name : ACL EXTREME
 Equipment : 1 x LED 19 W / 2023.1 lm
 Maintenance factor: 0.68

2 20 x
 Order No. : EFLH24KG
 Luminaire name : EUROFLOOD MIDI LED
 Equipment : 1 x LED 81 W / 8528 lm
 Maintenance factor: 0.81

2.2 Summary, 5lx Perimeter - Centurion L65

2.2.45 Result overview, Overall

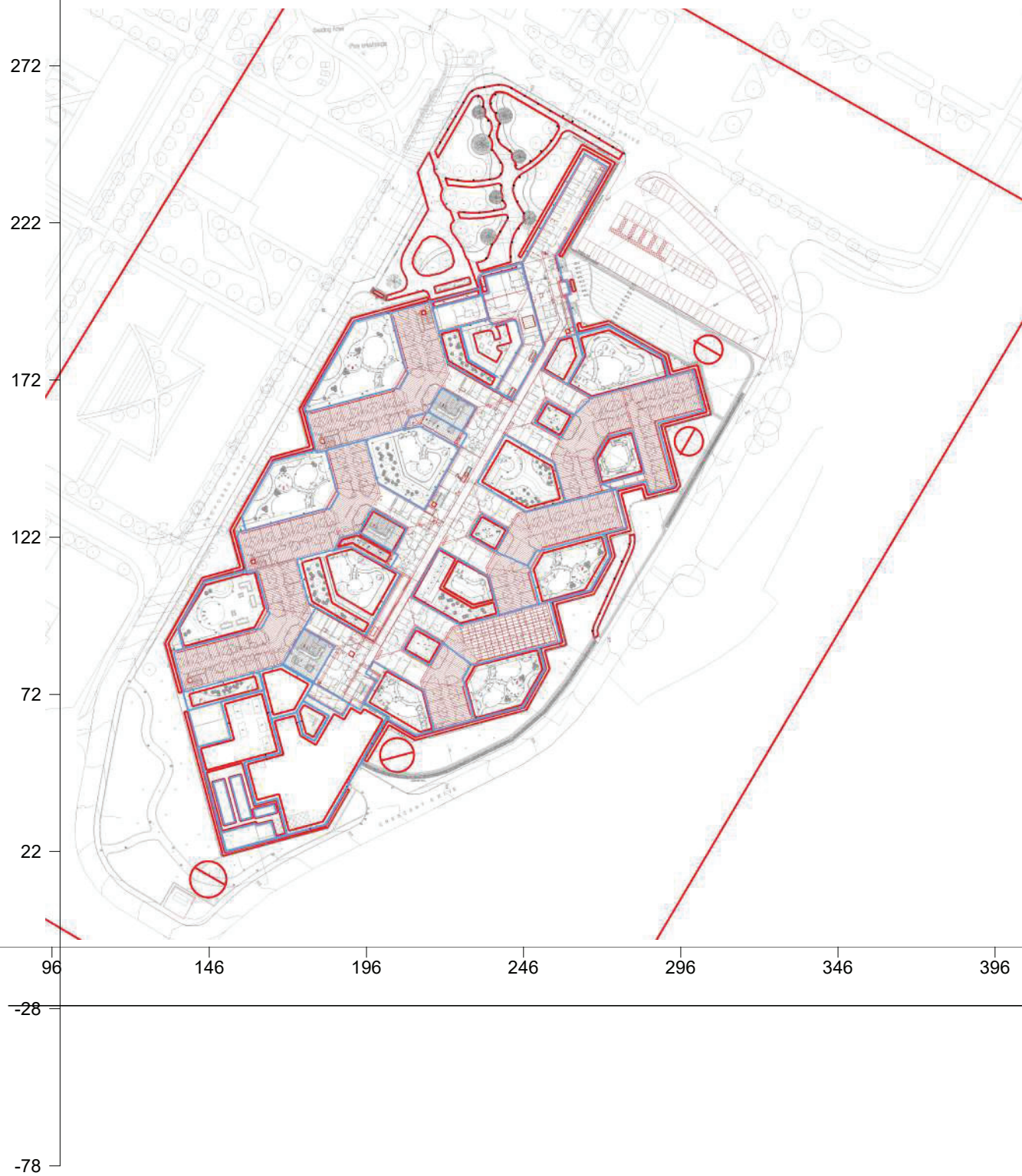
3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
6	57 x		Order No. : CENLH14K Luminaire name : Centurion L65 Equipment : 1 x LED 12 W / 890 lm Maintenance factor: 0.68
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79

3 5lx Perimeter - Centurion PP65

y [m]

3.1 Description, 5lx Perimeter - Centurion PP65

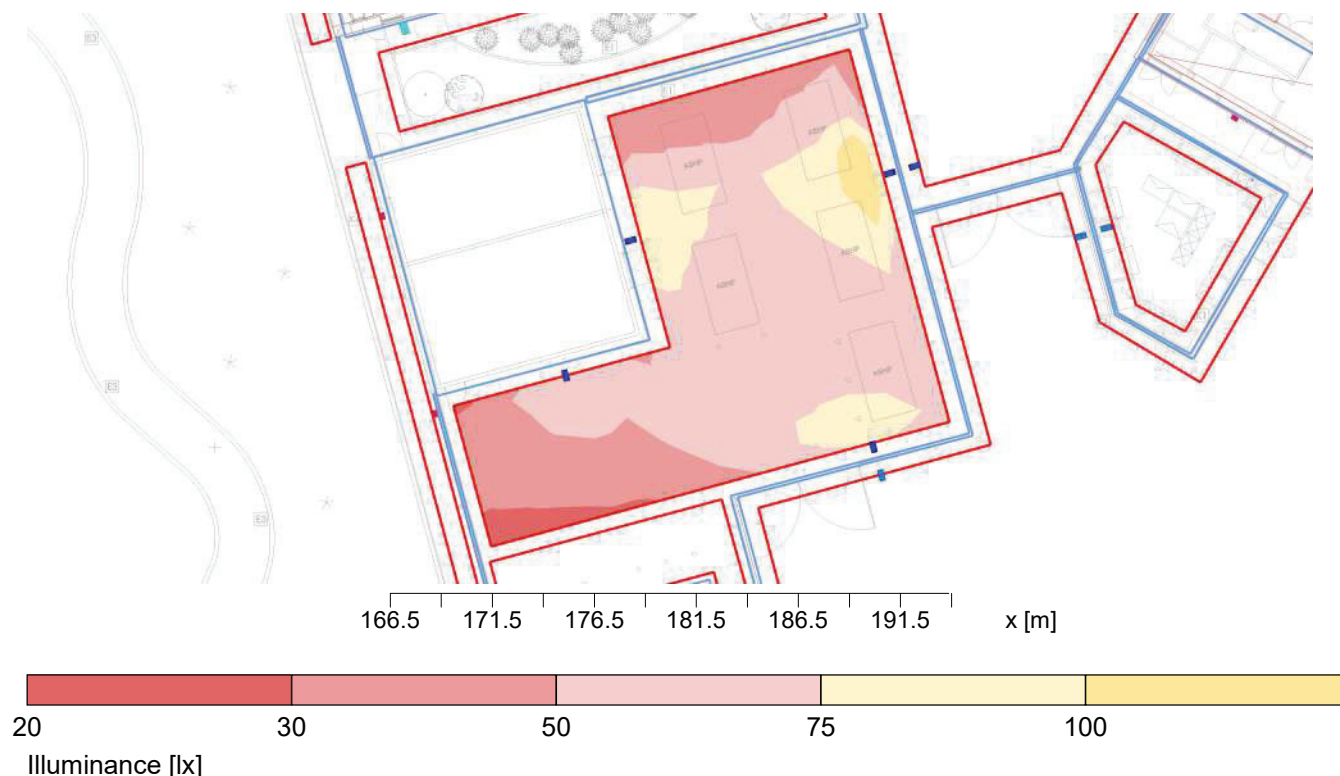
3.1.1 Floor plan



3 5lx Perimeter - Centurion PP65

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.1 Result overview, ASHP Yard 50lx 0.4Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 970418.2 lm
 Total power 9181 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	63 lx
Minimum illuminance	E_{min}	28 lx
Maximum illuminance	E_{max}	125 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.28 (0.44)
Diversity U_d	E_{min}/E_{max}	1:4.48 (0.22)

Type No. Make

Whitecroft Lighting

1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68

2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

3 5lx Perimeter - Centurion PP65

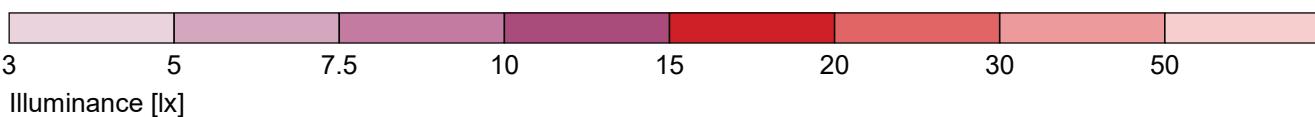
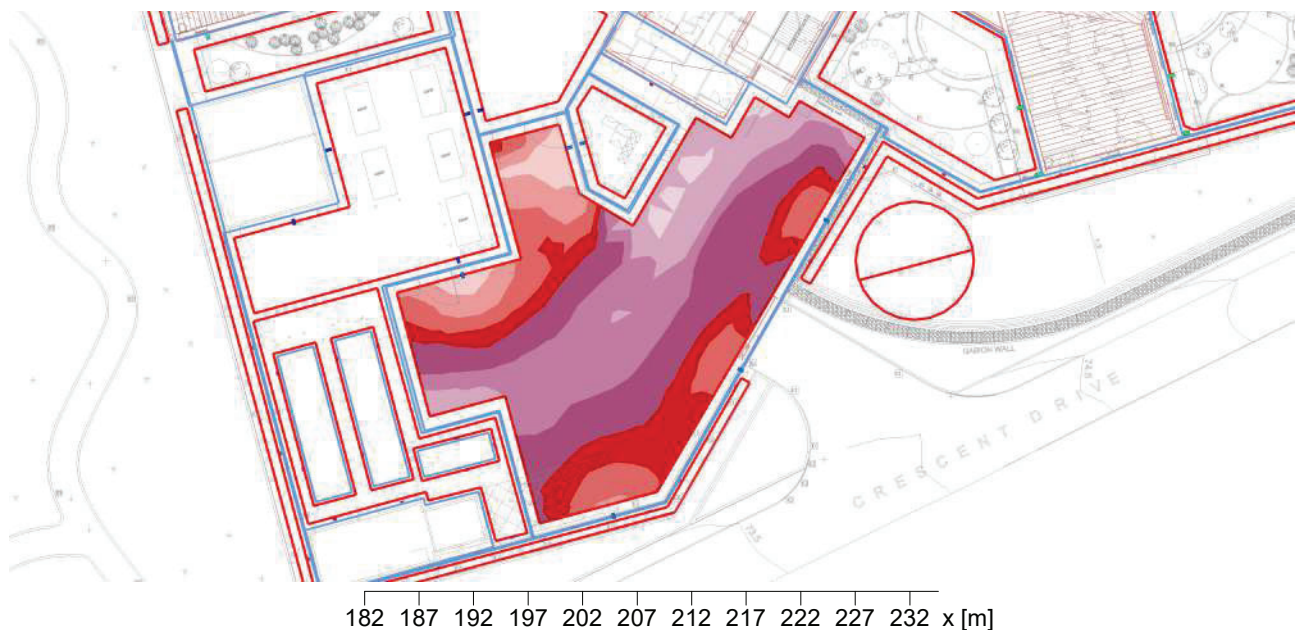
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.1 Result overview, ASHP Yard 50lx 0.4Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.2 Result overview, Turning Circle 10lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

970418.2 lm
 9181 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	15 lx
Minimum illuminance	E_{min}	4 lx
Maximum illuminance	E_{max}	73 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.68 (0.27)
Diversity U_d	E_{min}/E_{max}	1:17.4 (0.06)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

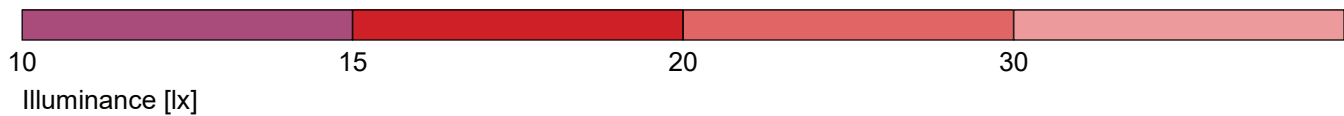
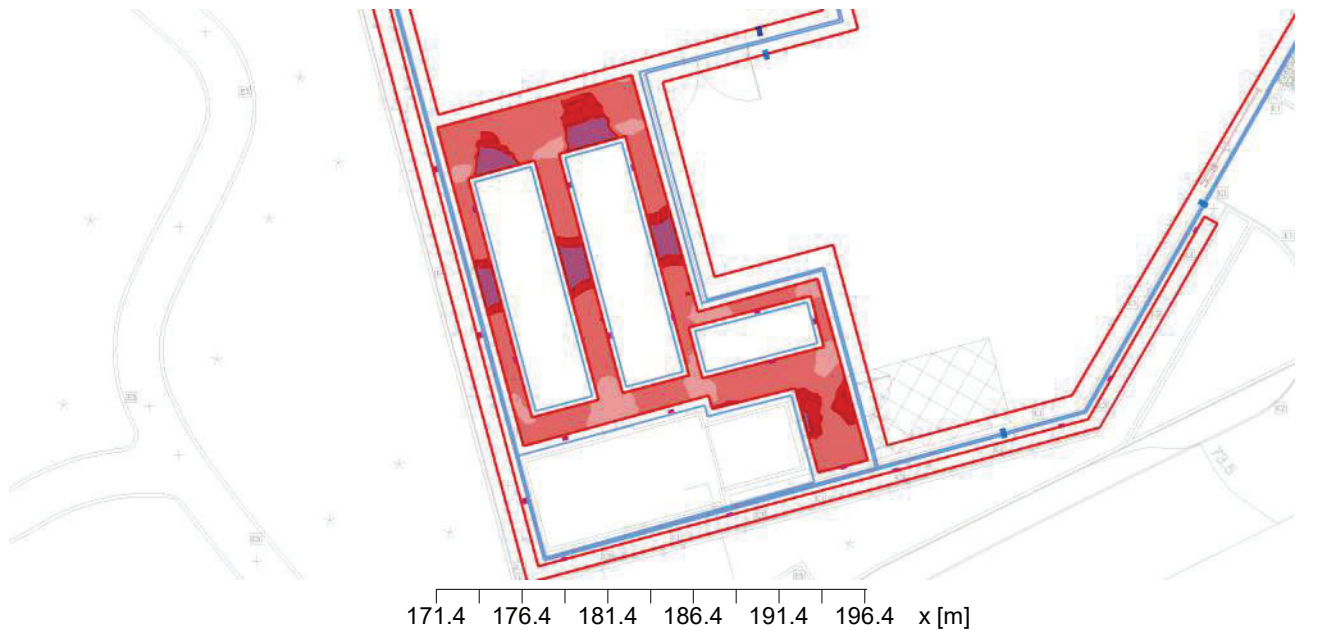
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.2 Result overview, Turning Circle 10lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.3 Result overview, Plant Access 5lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan

Total luminous flux	970418.2 lm
Total power	9181 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	24 lx
Minimum illuminance	E_{min}	11 lx
Maximum illuminance	E_{max}	39 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.15 (0.47)
Diversity U_d	E_{min}/E_{max}	1:3.56 (0.28)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

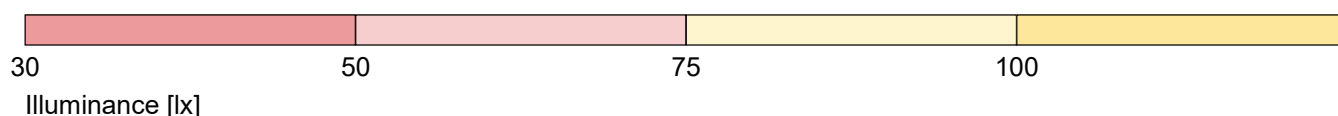
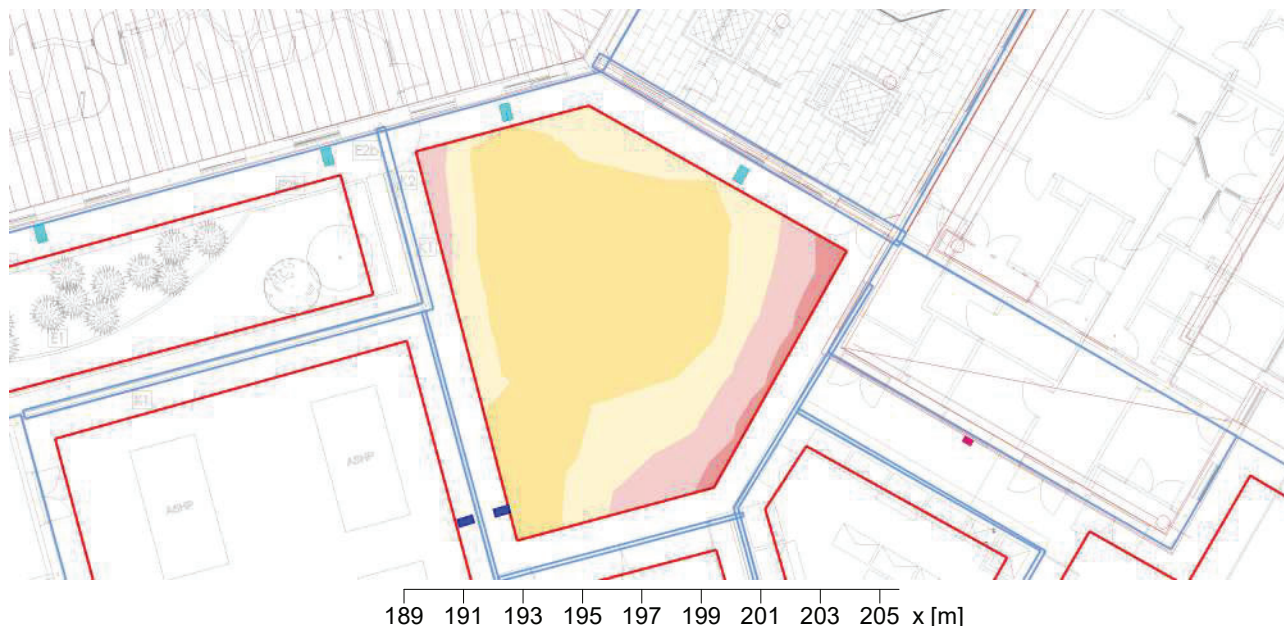
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.3 Result overview, Plant Access 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.4 Result overview, Discrete Entrance 100lx 0.4Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 970418.2 lm
 Total power 9181 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	101 lx
Minimum illuminance	E_{min}	46 lx
Maximum illuminance	E_{max}	143 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.2 (0.45)
Diversity U_d	E_{min}/E_{max}	1:3.13 (0.32)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

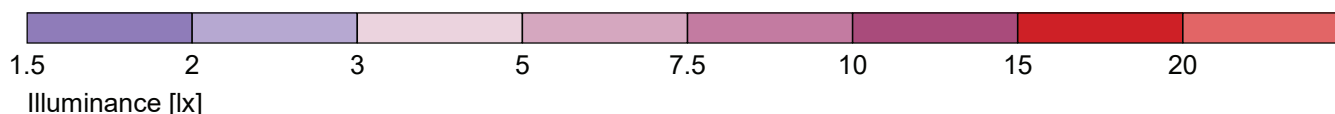
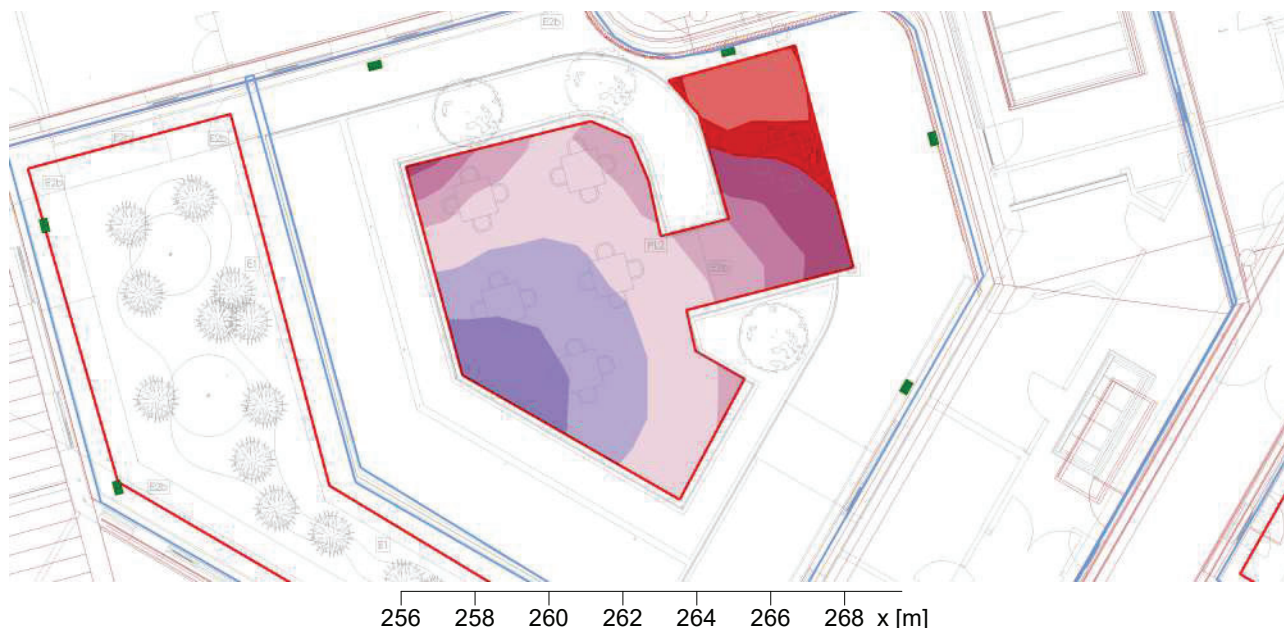
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.4 Result overview, Discrete Entrance 100lx 0.4Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.5 Result overview, Cafe Garden 5lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan

Total luminous flux	970418.2 lm
Total power	9181 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	7 lx
Minimum illuminance	E_{min}	2 lx
Maximum illuminance	E_{max}	27 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.98 (0.25)
Diversity U_d	E_{min}/E_{max}	1:15.7 (0.06)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

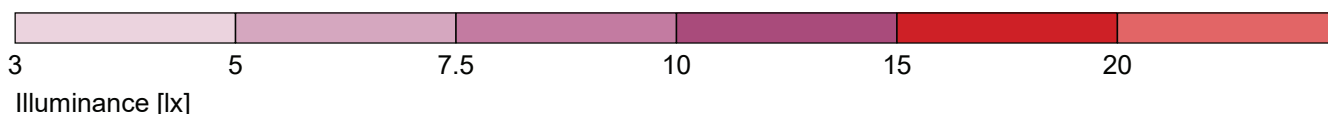
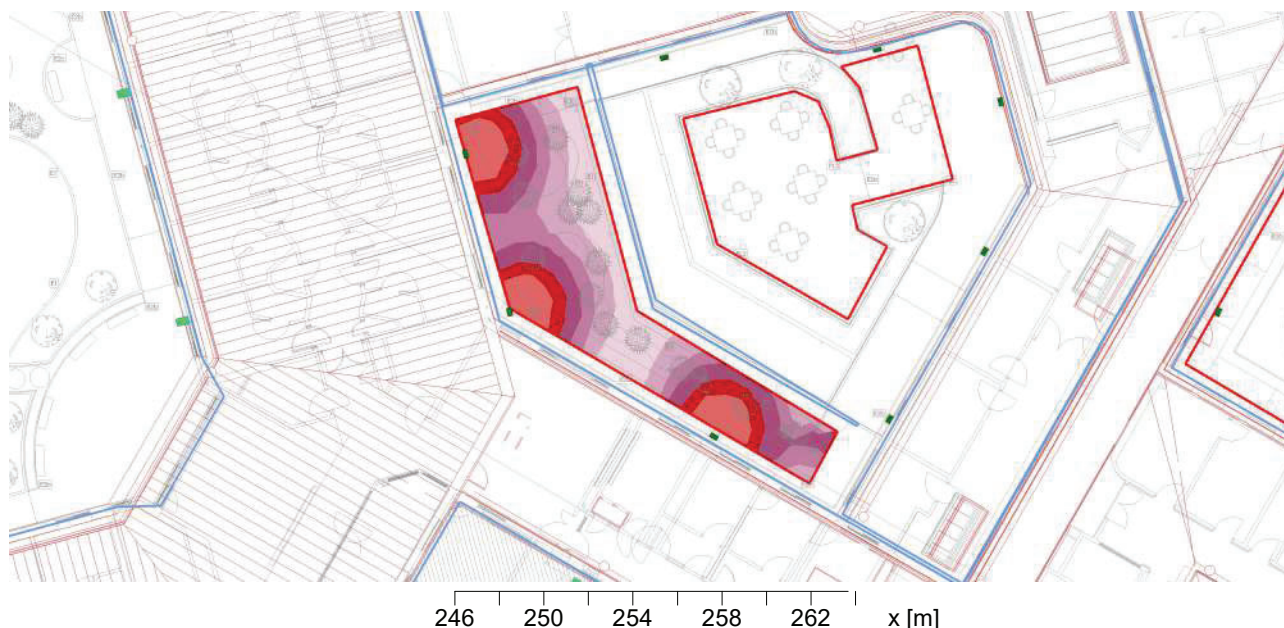
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.5 Result overview, Cafe Garden 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.6 Result overview, Maintenance Only Garden 5lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 970418.2 lm
 Total power 9181 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	10 lx
Minimum illuminance	E_{min}	3 lx
Maximum illuminance	E_{max}	29 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.39 (0.29)
Diversity U_d	E_{min}/E_{max}	1:9.55 (0.1)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

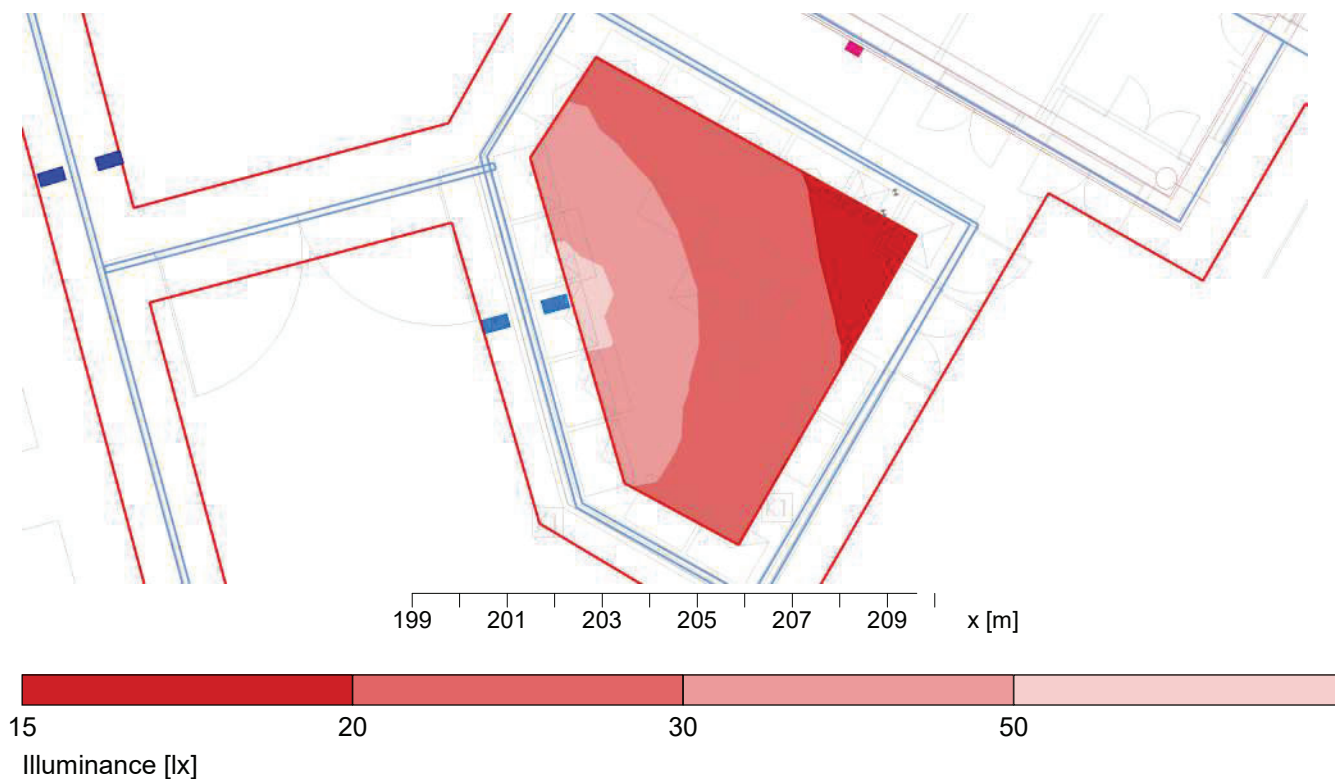
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.6 Result overview, Maintenance Only Garden 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.7 Result overview, Bin Store 20lx 0.4Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 970418.2 lm
 Total power 9181 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	29 lx
Minimum illuminance	E_{min}	18 lx
Maximum illuminance	E_{max}	53 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.63 (0.61)
Diversity U_d	E_{min}/E_{max}	1:2.95 (0.34)

Type No. Make

		Whitecroft Lighting
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

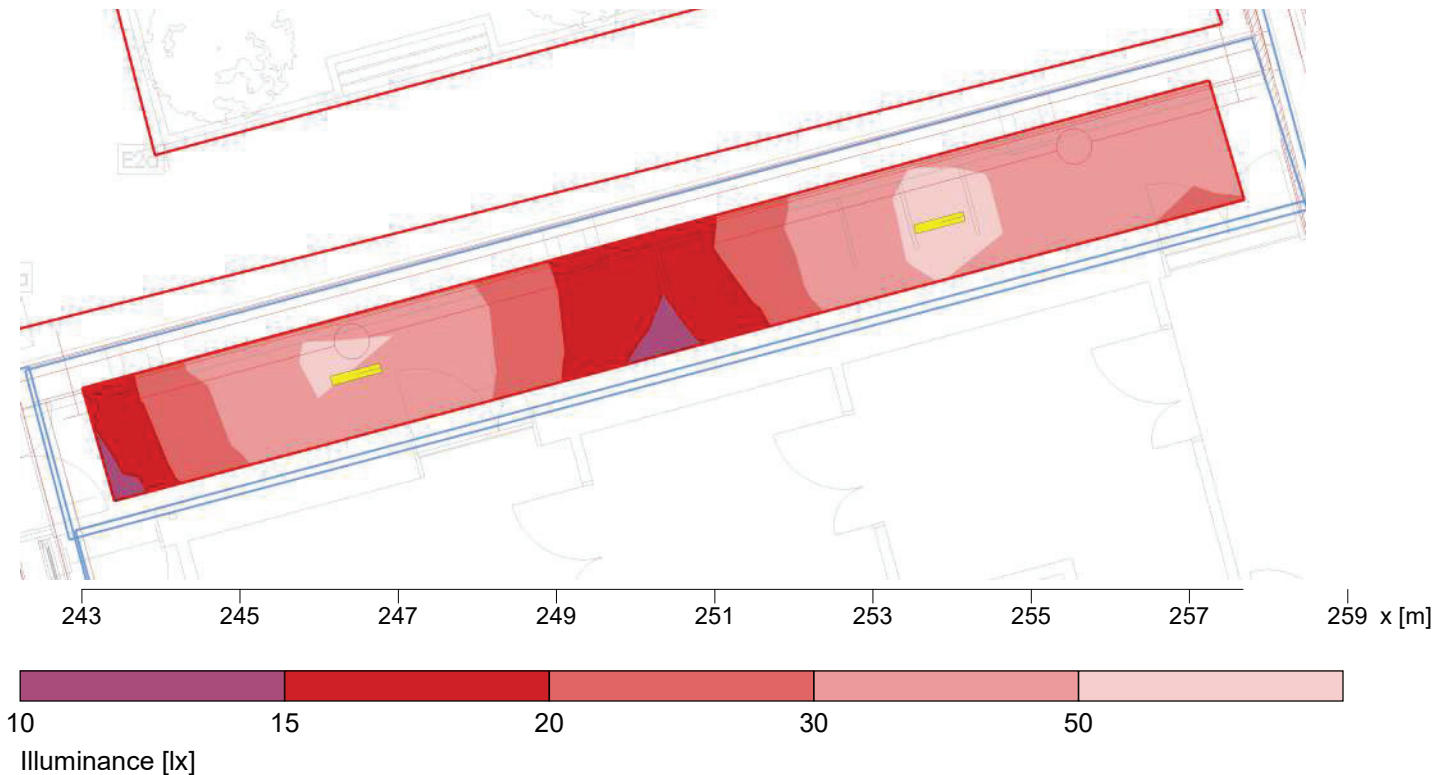
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.7 Result overview, Bin Store 20lx 0.4Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.8 Result overview, Bike Store Under Canopy 10lx 0.4Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan

Total luminous flux	970418.2 lm
Total power	9181 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	34 lx
Minimum illuminance	E_{min}	14 lx
Maximum illuminance	E_{max}	55 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.39 (0.42)
Diversity U_d	E_{min}/E_{max}	1:3.86 (0.26)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

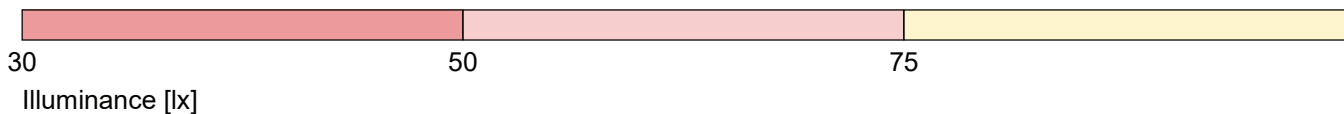
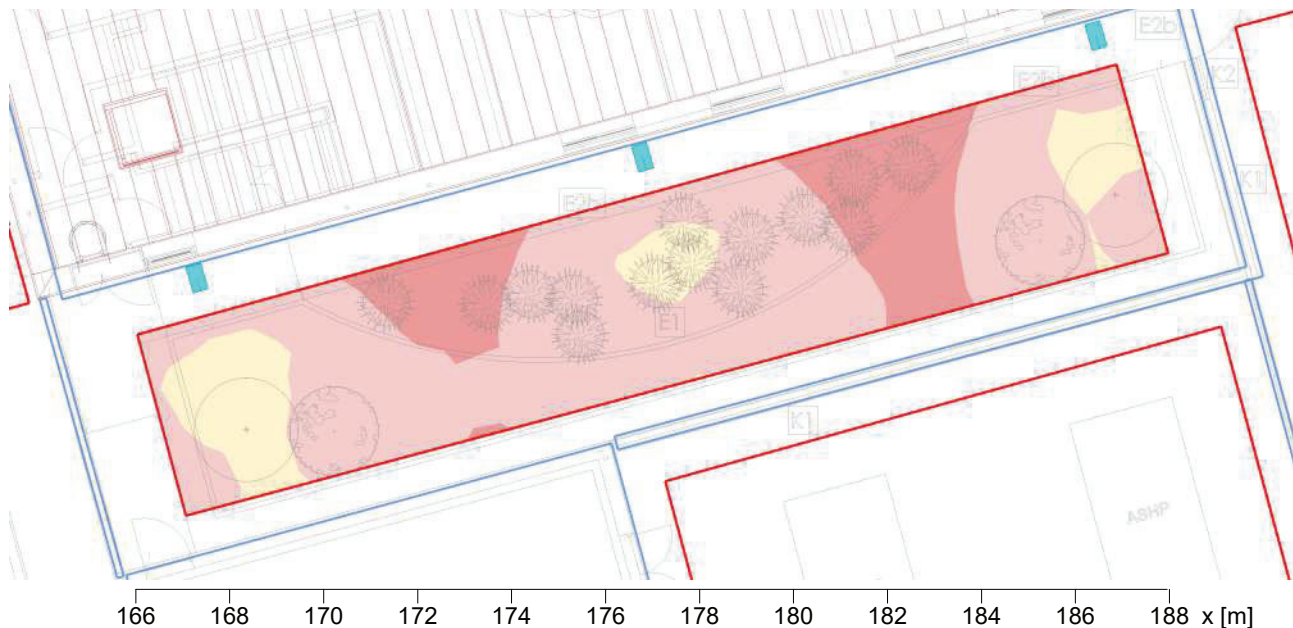
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.8 Result overview, Bike Store Under Canopy 10lx 0.4Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.9 Result overview, PICU Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 970418.2 lm
 Total power 9181 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	62 lx
Minimum illuminance	E_{min}	38 lx
Maximum illuminance	E_{max}	84 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.66 (0.6)
Diversity U_d	E_{min}/E_{max}	1:2.23 (0.45)

Type No. Make

Whitecroft Lighting

1 2 x
 Order No. : AXLH214K
 Luminaire name : ACL EXTREME
 Equipment : 1 x LED 19 W / 2023.1 lm
 Maintenance factor: 0.68

2 20 x
 Order No. : EFLH24KG
 Luminaire name : EUROFLOOD MIDI LED
 Equipment : 1 x LED 81 W / 8528 lm
 Maintenance factor: 0.81

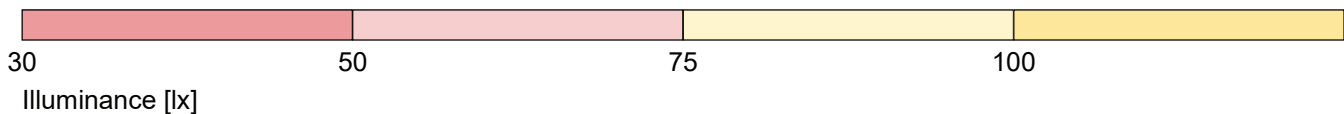
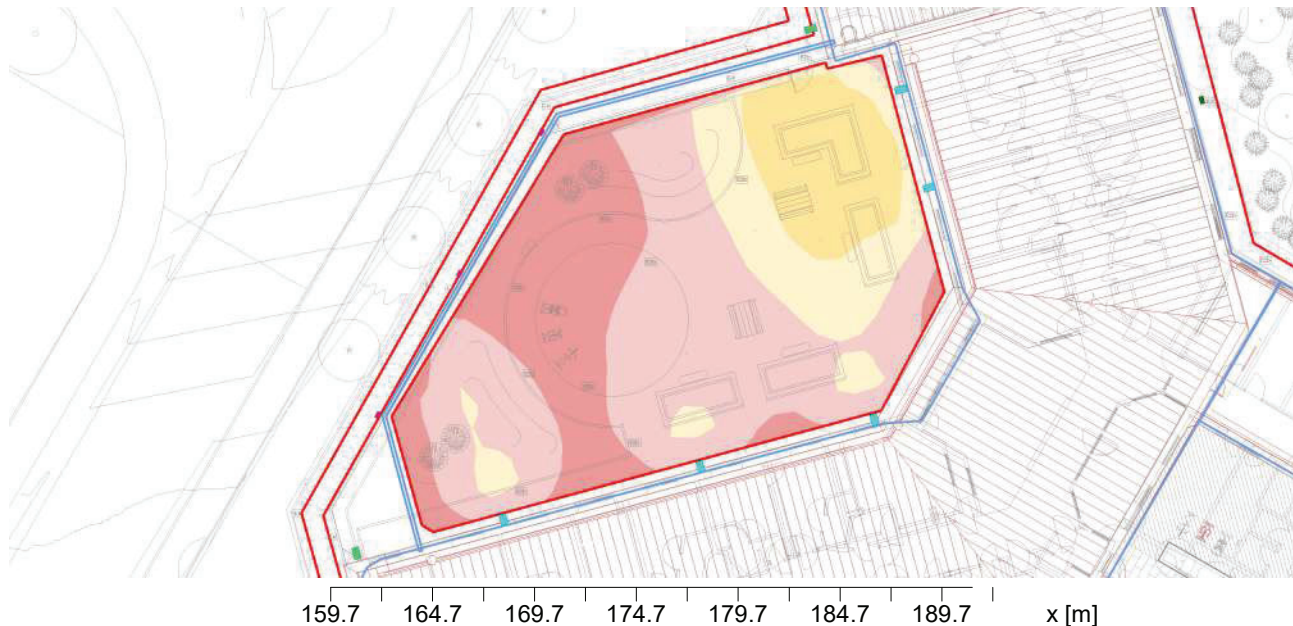
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.9 Result overview, PICU Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.10 Result overview, PICU Garden 50lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	970418.2 lm
Total power	9181 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	68 lx
Minimum illuminance	E_{min}	33 lx
Maximum illuminance	E_{max}	116 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.04 (0.49)
Diversity U_d	E_{min}/E_{max}	1:3.49 (0.29)

Type No. Make

Whitecroft Lighting		
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

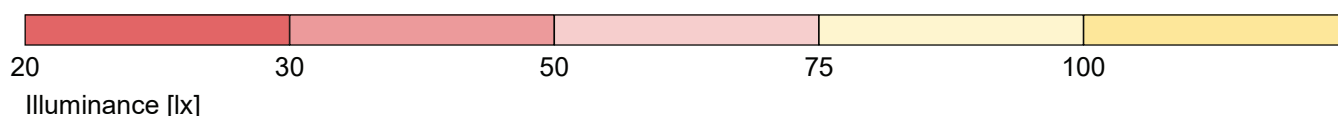
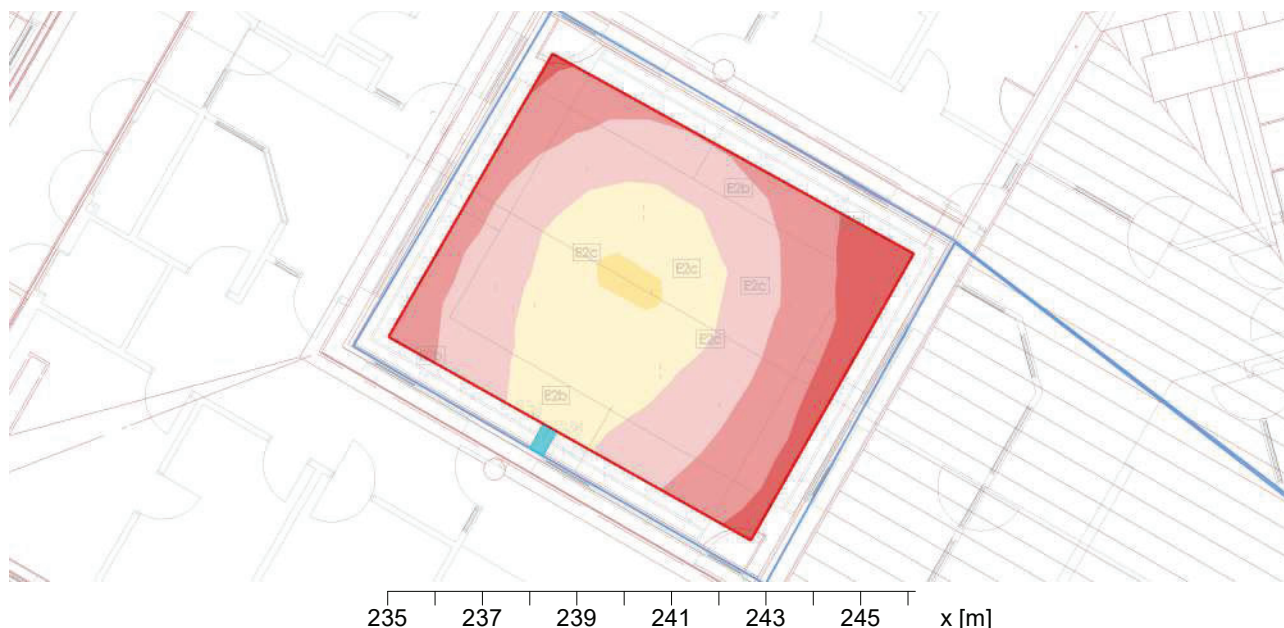
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.10 Result overview, PICU Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.11 Result overview, Service user Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

970418.2 lm
 9181 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	63 lx
Minimum illuminance	E_{min}	28 lx
Maximum illuminance	E_{max}	105 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.26 (0.44)
Diversity U_d	E_{min}/E_{max}	1:3.76 (0.27)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

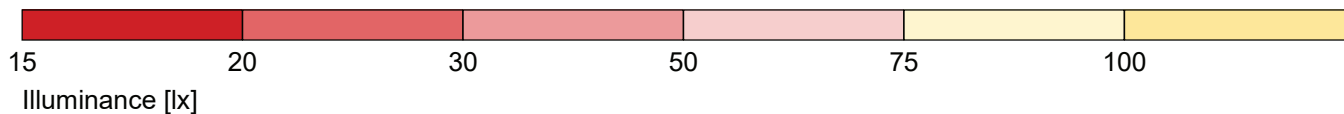
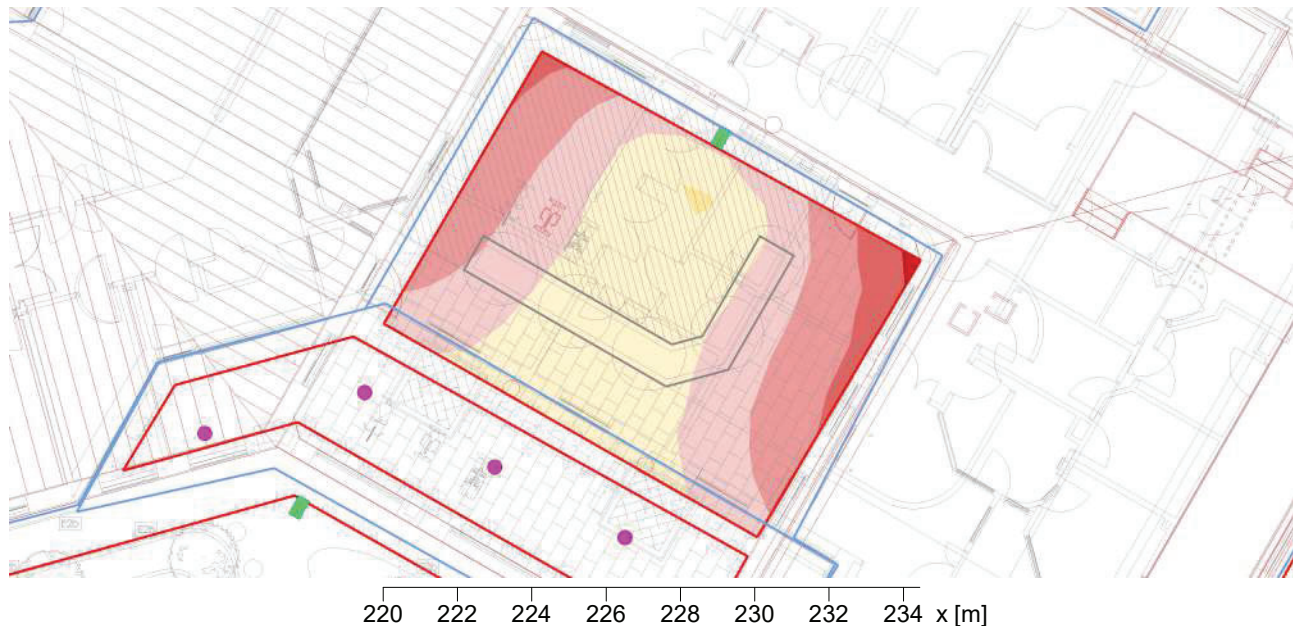
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.11 Result overview, Service user Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.12 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	970418.2 lm
Total power	9181 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	66 lx
Minimum illuminance	E_{min}	17 lx
Maximum illuminance	E_{max}	103 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.81 (0.26)
Diversity U_d	E_{min}/E_{max}	1:5.96 (0.17)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

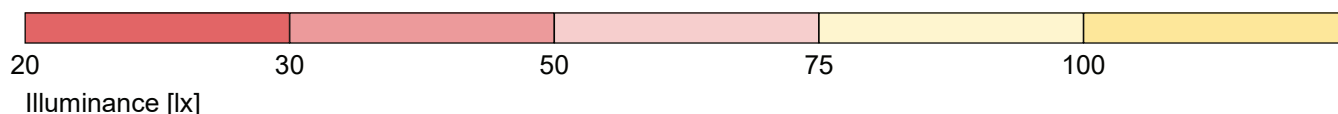
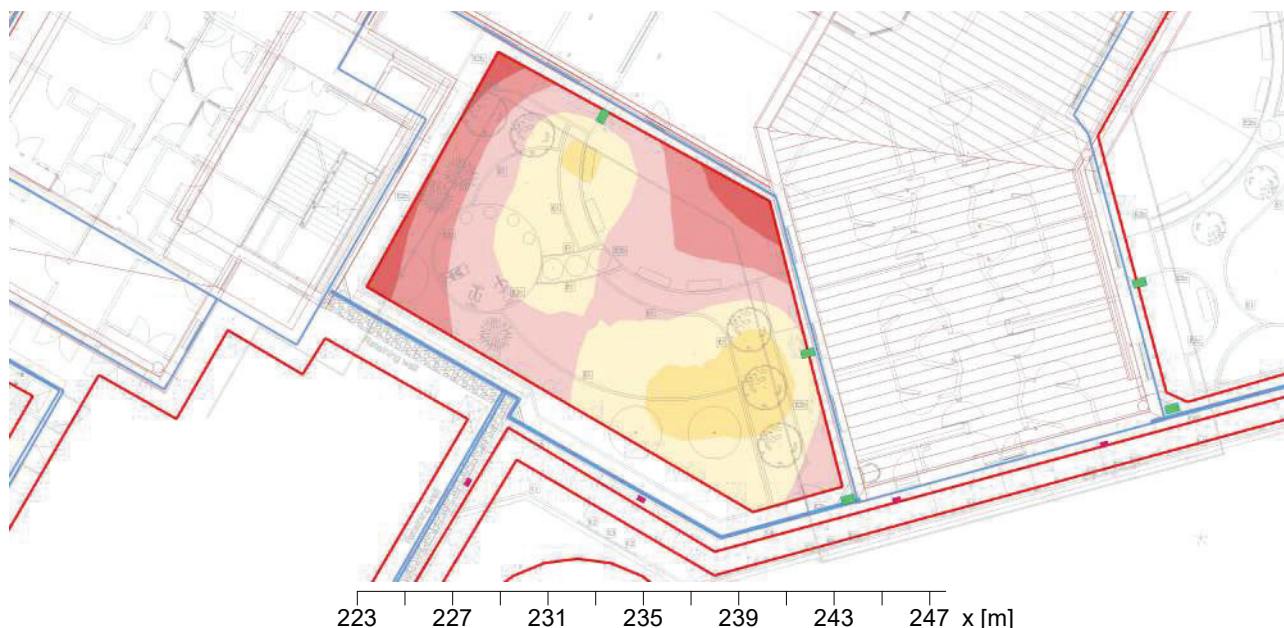
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.12 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.13 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 970418.2 lm
 Total power 9181 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	73 lx
Minimum illuminance	E_{min}	23 lx
Maximum illuminance	E_{max}	120 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.12 (0.32)
Diversity U_d	E_{min}/E_{max}	1:5.15 (0.19)

Type No. Make

Whitecroft Lighting

1 2 x
 Order No. : AXLH214K
 Luminaire name : ACL EXTREME
 Equipment : 1 x LED 19 W / 2023.1 lm
 Maintenance factor: 0.68

2 20 x
 Order No. : EFLH24KG
 Luminaire name : EUROFLOOD MIDI LED
 Equipment : 1 x LED 81 W / 8528 lm
 Maintenance factor: 0.81

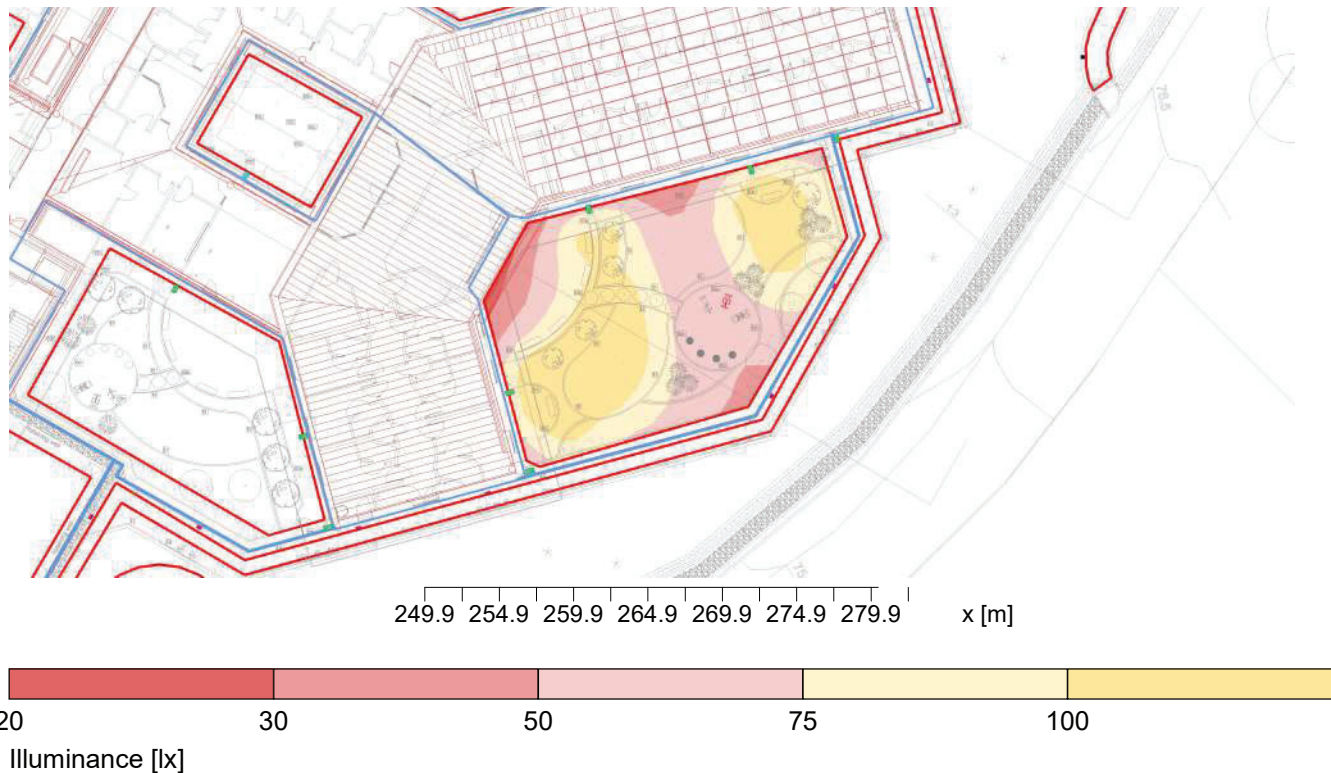
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.13 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.14 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 970418.2 lm
 Total power 9181 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	85 lx
Minimum illuminance	E_{min}	29 lx
Maximum illuminance	E_{max}	133 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.91 (0.34)
Diversity U_d	E_{min}/E_{max}	1:4.59 (0.22)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

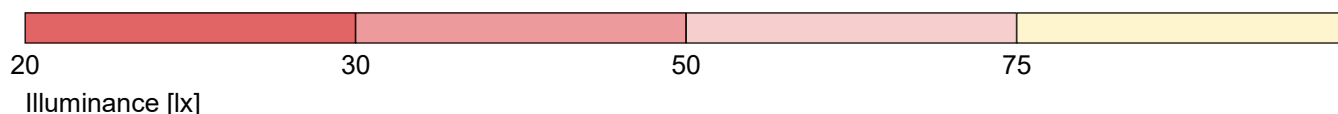
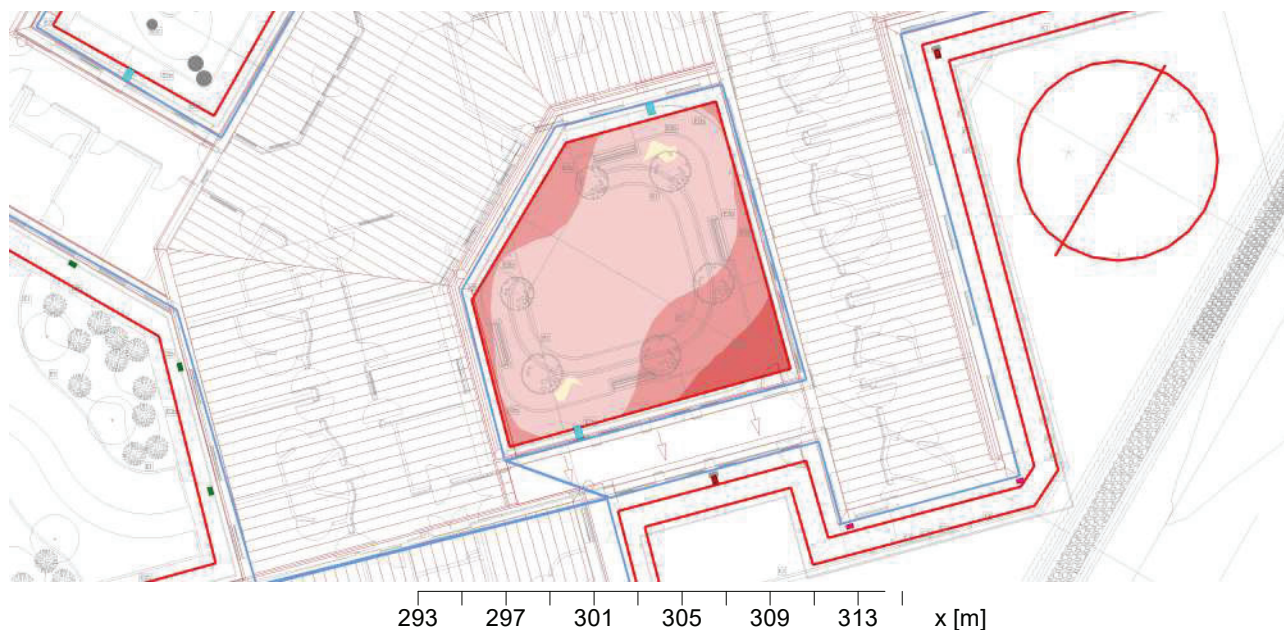
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.14 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.15 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

970418.2 lm
 9181 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	54 lx
Minimum illuminance	E_{min}	20 lx
Maximum illuminance	E_{max}	78 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.67 (0.37)
Diversity U_d	E_{min}/E_{max}	1:3.82 (0.26)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

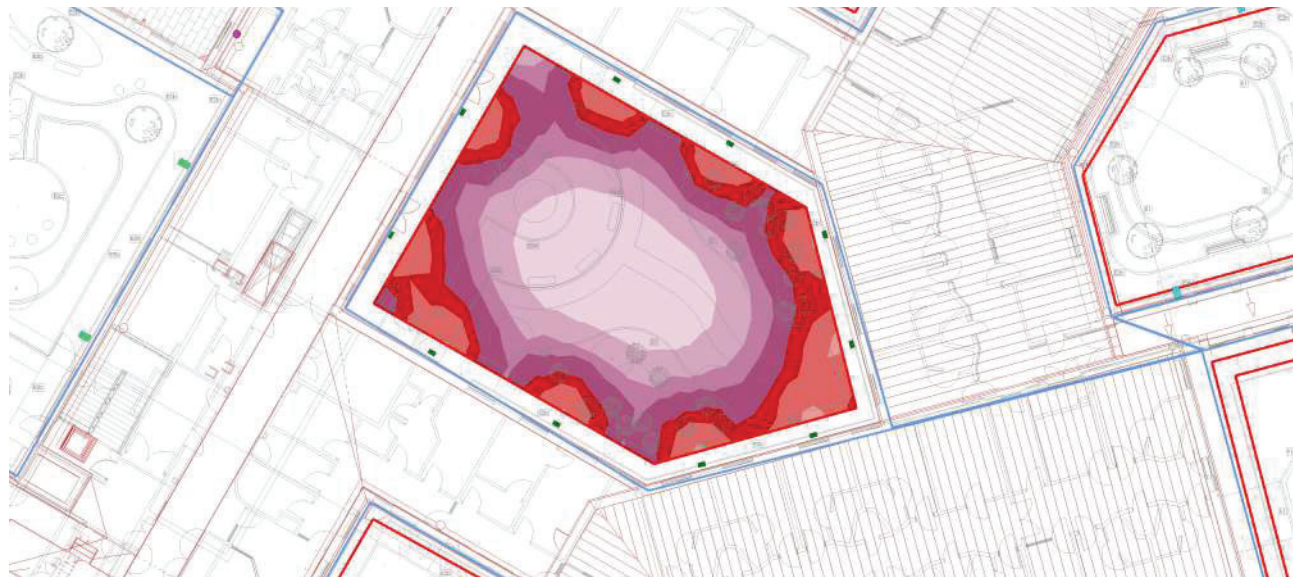
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.15 Result overview, Service User Garden 50lx 0.25Uo

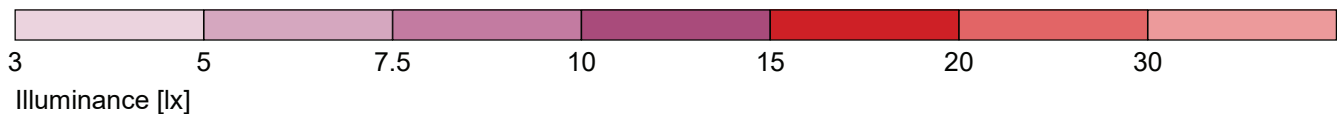
3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.16 Result overview, Maintenance Only Garden 5lx 0.25Uo



258.9 263.9 268.9 273.9 278.9 283.9 288.9 x [m]



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 970418.2 lm
 Total power 9181 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	11 lx
Minimum illuminance	E_{min}	3 lx
Maximum illuminance	E_{max}	31 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.51 (0.28)
Diversity U_d	E_{min}/E_{max}	1:9.6 (0.1)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

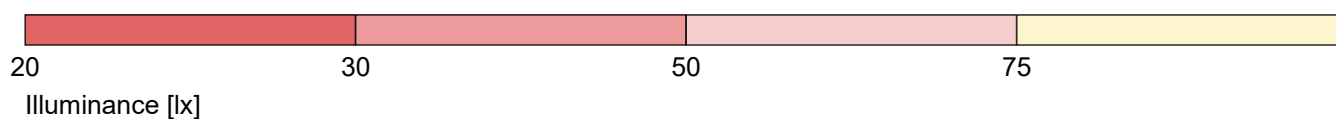
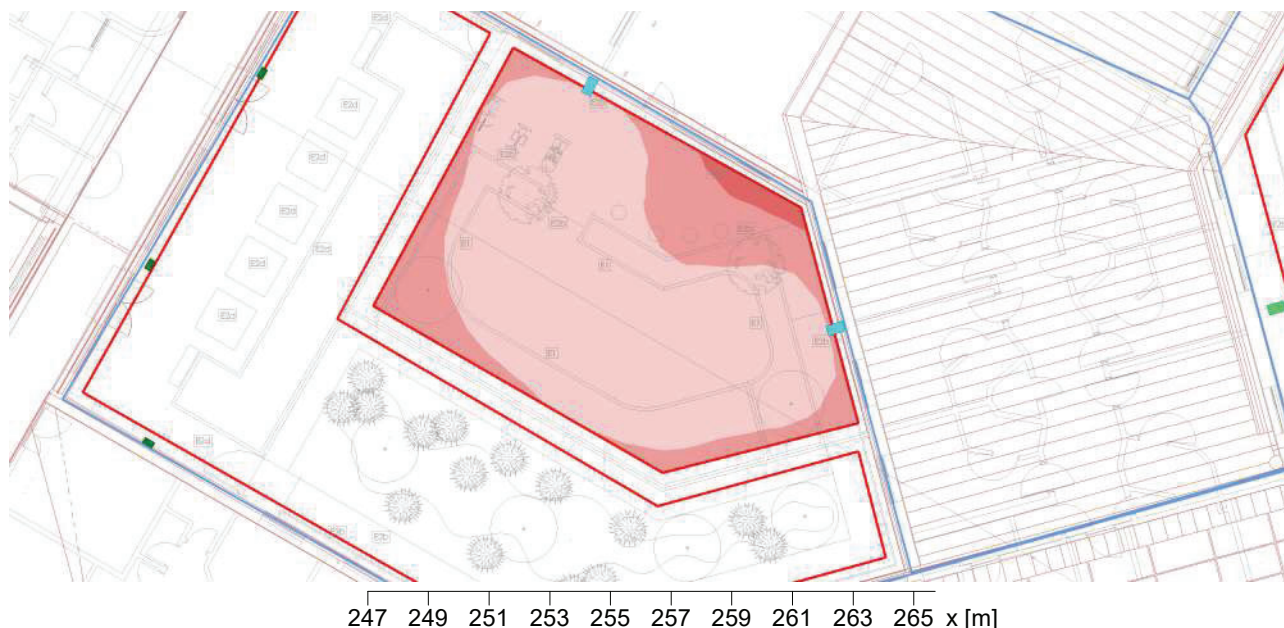
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.16 Result overview, Maintenance Only Garden 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.17 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 970418.2 lm
 Total power 9181 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	55 lx
Minimum illuminance	E_{min}	24 lx
Maximum illuminance	E_{max}	75 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.32 (0.43)
Diversity U_d	E_{min}/E_{max}	1:3.18 (0.31)

Type No. Make

		Whitecroft Lighting
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

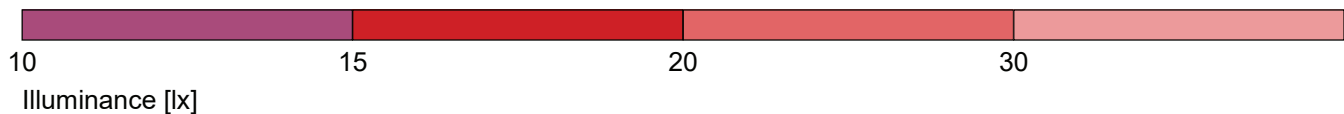
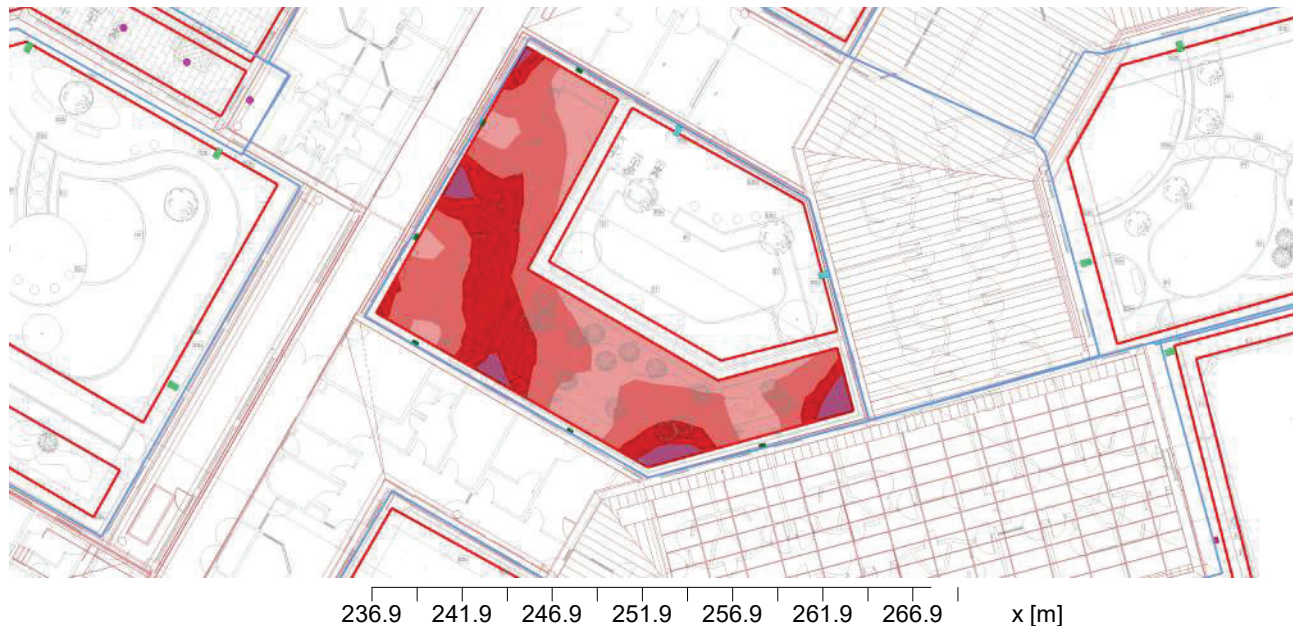
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.17 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.18 Result overview, Maintenance Only Garden 5lx 0.25Uo



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	see luminaires / maintenance plan
Total luminous flux	970418.2 lm
Total power	9181 W
Total power per area (89790.69 m ²)	0.10 W/m ²

Illuminance

Average illuminance	$\bar{E}_m$	25 lx
Minimum illuminance	E_{min}	14 lx
Maximum illuminance	E_{max}	42 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:1.76 (0.57)
Diversity U_d	E_{min}/E_{max}	1:2.96 (0.34)

Type No. Make

Whitecroft Lighting		
1	2 x	Order No. : AXLH214K
		Luminaire name : ACL EXTREME
		Equipment : 1 x LED 19 W / 2023.1 lm
		Maintenance factor: 0.68
2	20 x	Order No. : EFLH24KG
		Luminaire name : EUROFLOOD MIDI LED
		Equipment : 1 x LED 81 W / 8528 lm
		Maintenance factor: 0.81

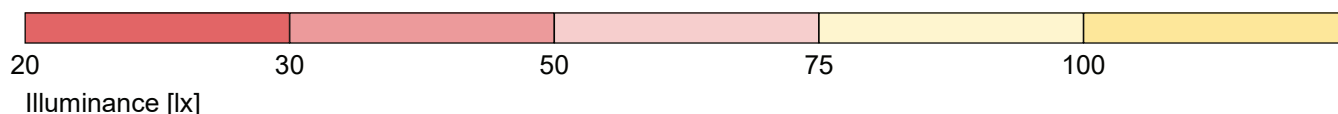
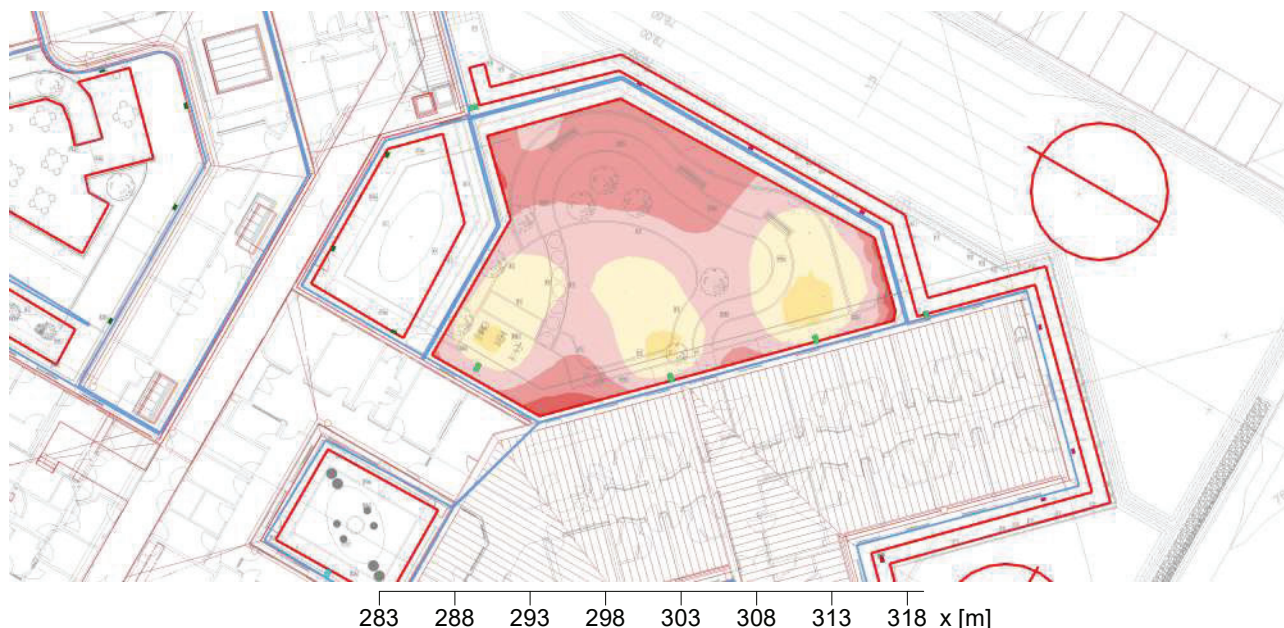
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.18 Result overview, Maintenance Only Garden 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.19 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 970418.2 lm
 Total power 9181 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	66 lx
Minimum illuminance	E_{min}	21 lx
Maximum illuminance	E_{max}	115 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.06 (0.33)
Diversity U_d	E_{min}/E_{max}	1:5.37 (0.19)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

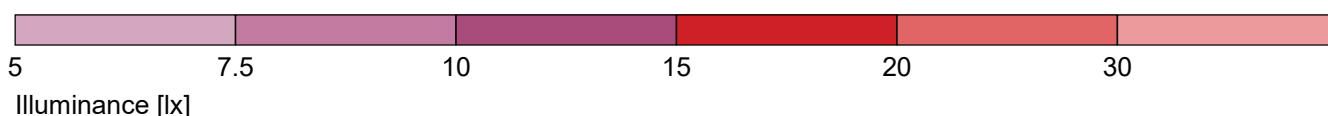
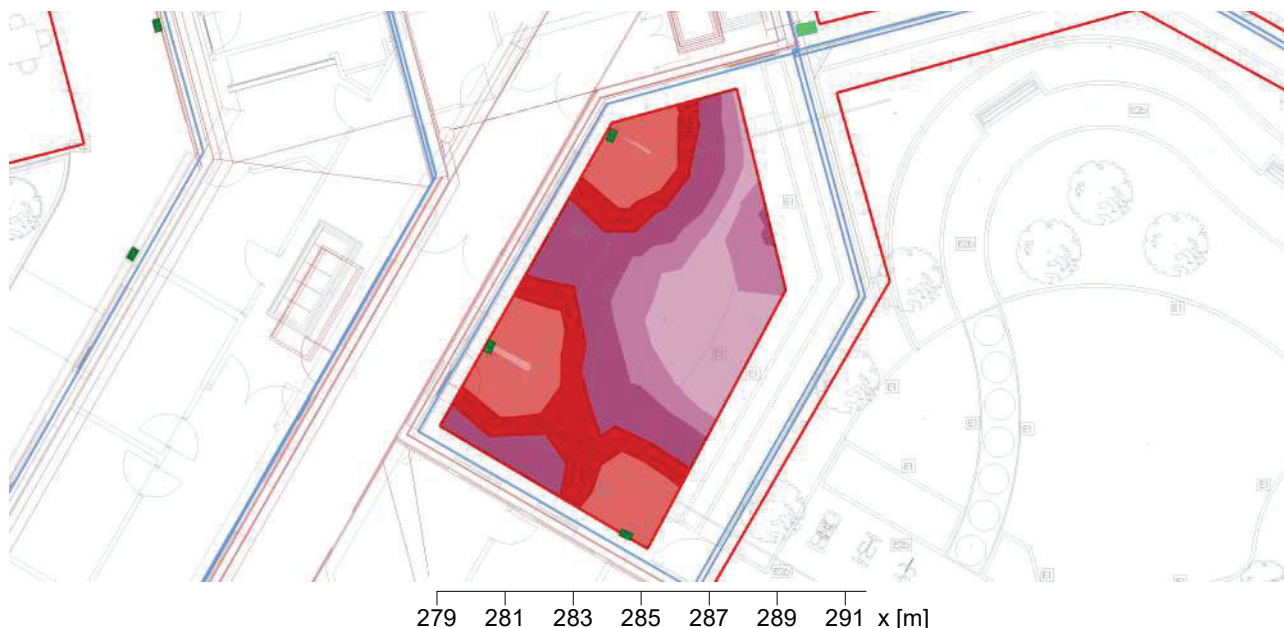
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.19 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.20 Result overview, Maintenance Only Garden 5lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

970418.2 lm
 9181 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	16 lx
Minimum illuminance	E_{min}	6 lx
Maximum illuminance	E_{max}	31 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.66 (0.38)
Diversity U_d	E_{min}/E_{max}	1:5.19 (0.19)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

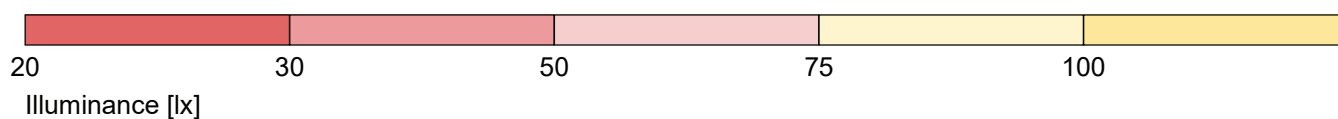
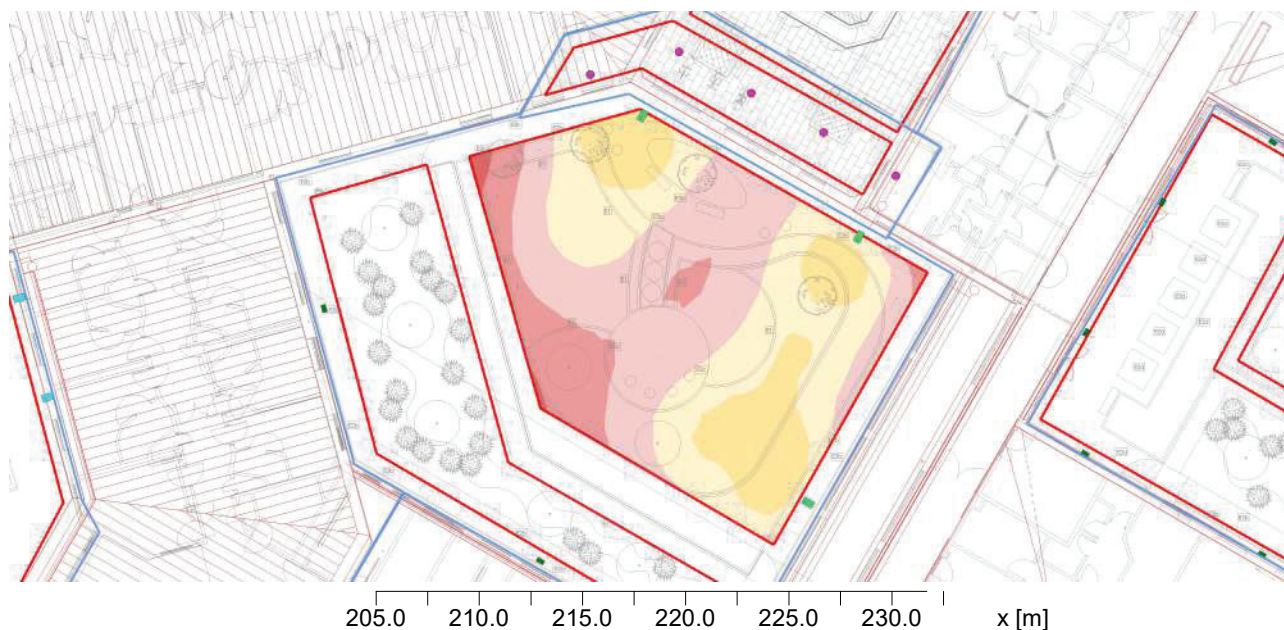
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.20 Result overview, Maintenance Only Garden 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.21 Result overview, Service User Garden 50lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 970418.2 lm
 Total power 9181 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	76 lx
Minimum illuminance	E_{min}	28 lx
Maximum illuminance	E_{max}	124 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.69 (0.37)
Diversity U_d	E_{min}/E_{max}	1:4.35 (0.23)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

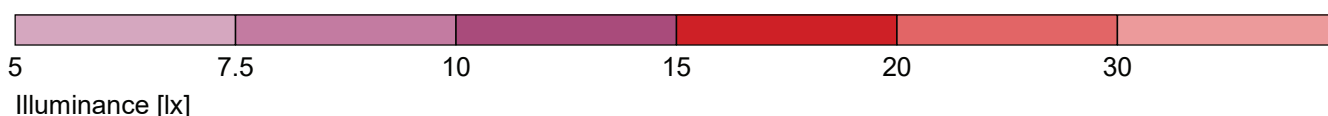
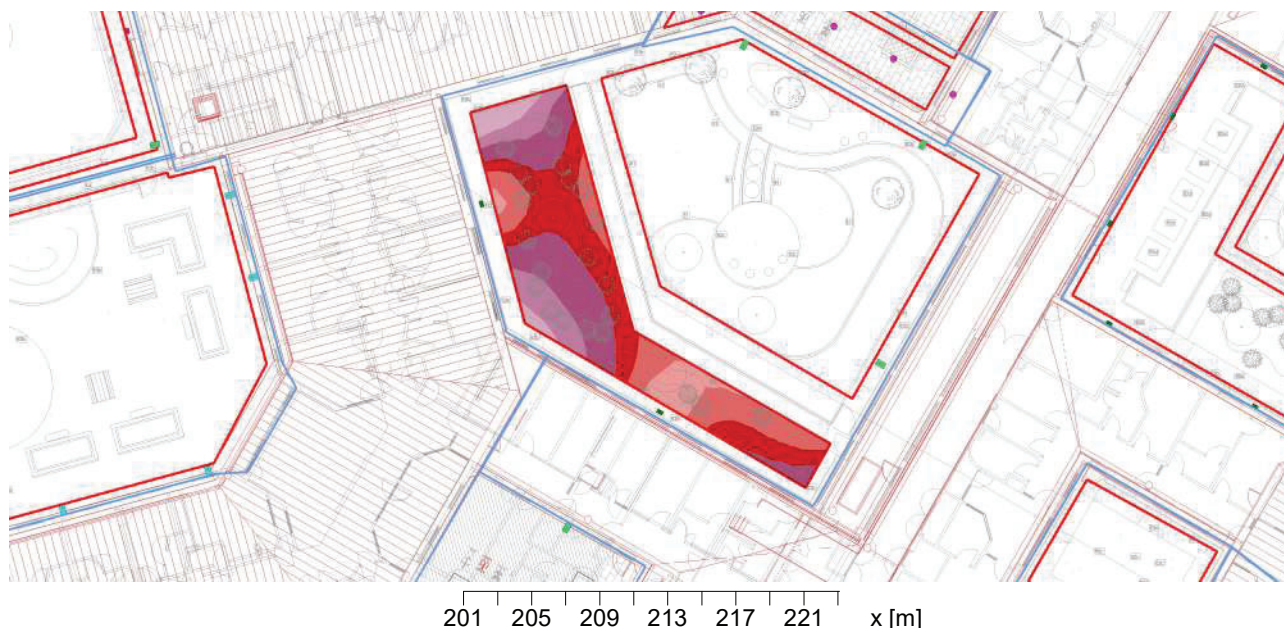
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.21 Result overview, Service User Garden 50lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.22 Result overview, Maintenance Only Garden 5lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 970418.2 lm
 Total power 9181 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	18 lx
Minimum illuminance	E_{min}	6 lx
Maximum illuminance	E_{max}	39 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.93 (0.34)
Diversity U_d	E_{min}/E_{max}	1:6.48 (0.15)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

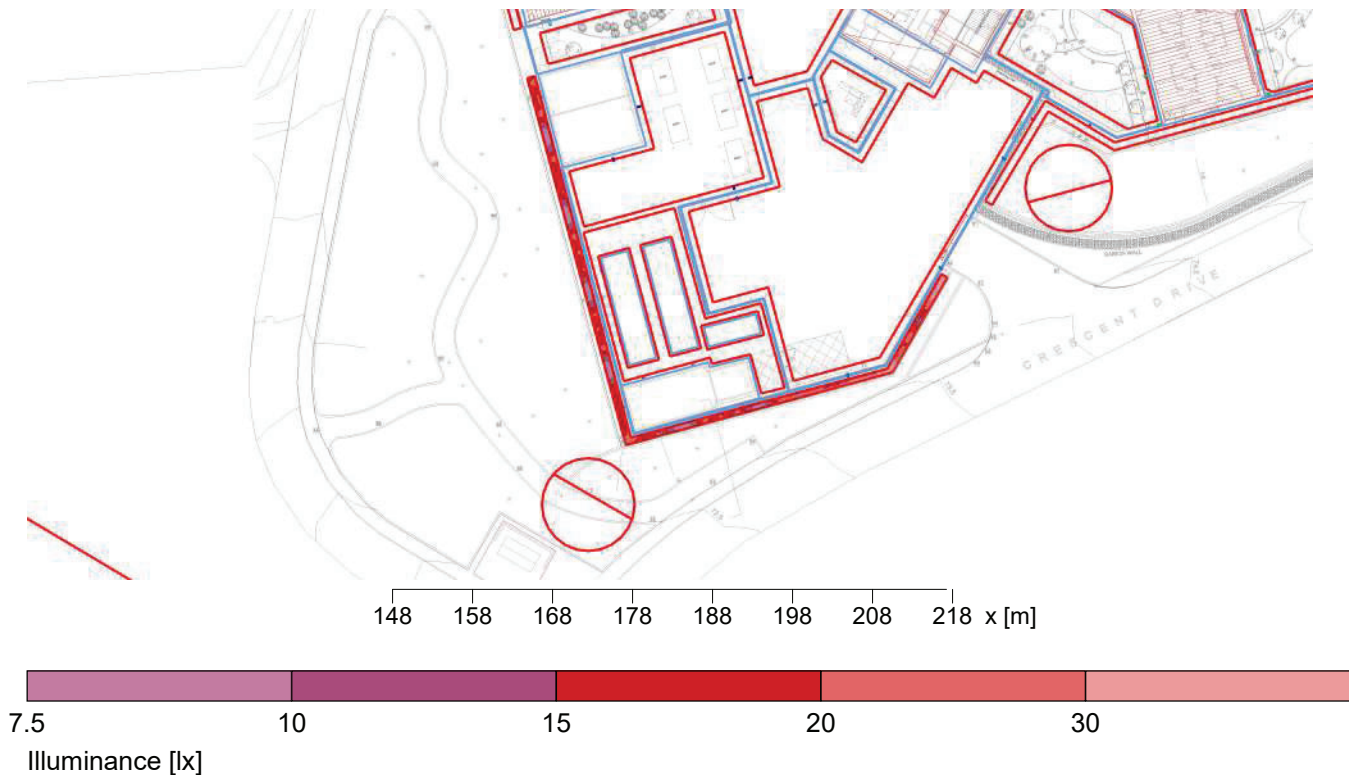
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.22 Result overview, Maintenance Only Garden 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.23 Result overview, Perimeter Path 1 5lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux 970418.2 lm
 Total power 9181 W
 Total power per area (89790.69 m²) 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	19 lx
Minimum illuminance	E_{min}	8 lx
Maximum illuminance	E_{max}	48 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.48 (0.4)
Diversity U_d	E_{min}/E_{max}	1:6.1 (0.16)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

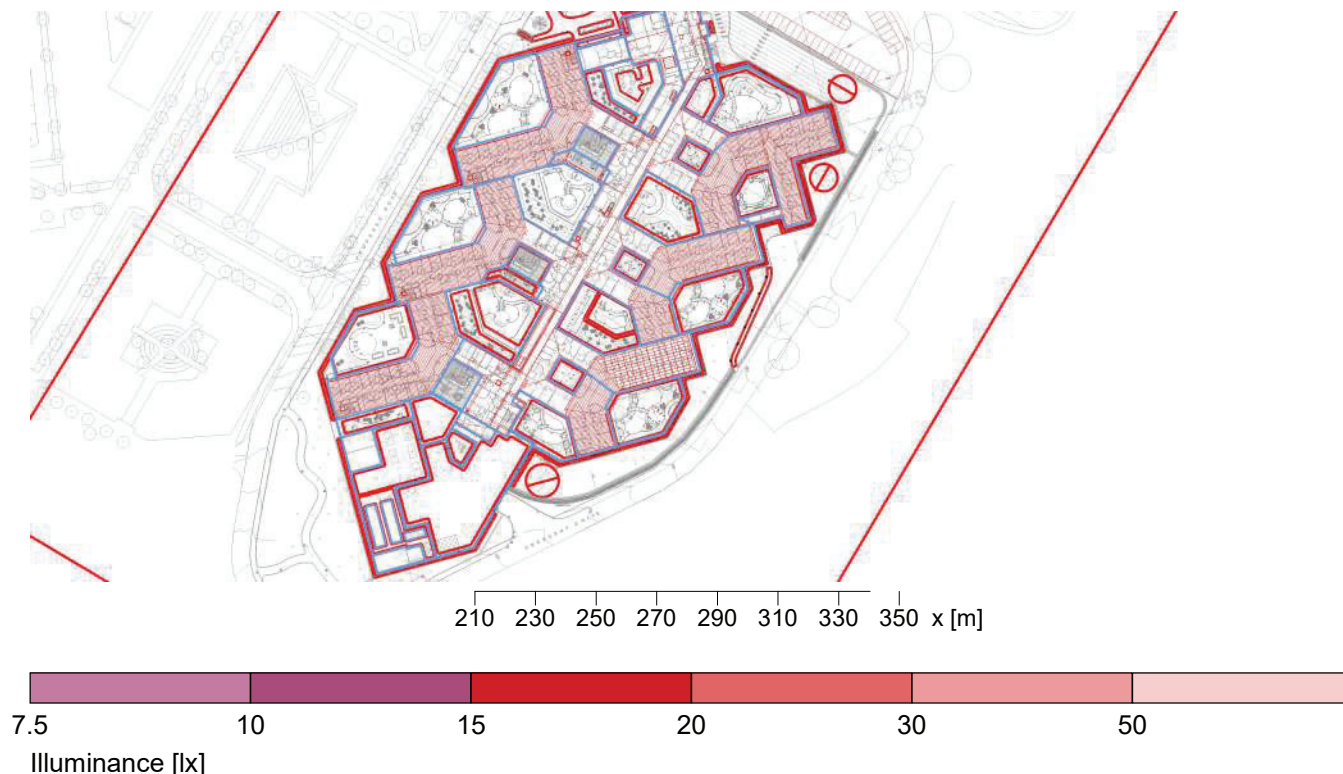
3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.23 Result overview, Perimeter Path 1 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.24 Result overview, Perimeter Path 2 5lx 0.25Uo



General

Calculation algorithm used
 Height of evaluation surface
 Maintenance factor

Average indirect fraction
 0.00 m
 see luminaires / maintenance plan

Total luminous flux
 Total power
 Total power per area (89790.69 m²)

970418.2 lm
 9181 W
 0.10 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	28 lx
Minimum illuminance	E_{min}	8 lx
Maximum illuminance	E_{max}	61 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:3.62 (0.28)
Diversity U_d	E_{min}/E_{max}	1:8.06 (0.12)

Type No. Make

Whitecroft Lighting	
1 2 x	Order No. : AXLH214K
	Luminaire name : ACL EXTREME
	Equipment : 1 x LED 19 W / 2023.1 lm
	Maintenance factor: 0.68
2 20 x	Order No. : EFLH24KG
	Luminaire name : EUROFLOOD MIDI LED
	Equipment : 1 x LED 81 W / 8528 lm
	Maintenance factor: 0.81

3.2 Summary, 5lx Perimeter - Centurion PP65

3.2.24 Result overview, Perimeter Path 2 5lx 0.25Uo

3	40 x		Order No. : EFLH34KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 121 W / 12452 lm Maintenance factor: 0.81
4	41 x		Order No. : SPXAH14K Luminaire name : SPECTRE WX Equipment : 1 x LED 14 W / 1119 lm Maintenance factor: 0.62
5	15 x		Order No. : K6H4204KS Luminaire name : KOLO IP65 Equipment : 1 x LED 18 W / 2359 lm Emergency : 400 lm (17.0 %) Maintenance factor: 0.78
7	11 x		Order No. : SIMDH14KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 33 W / 4571 lm Maintenance factor: 0.85
8	5 x		Order No. : SIMDH24KGA Luminaire name : SIROCCO MIDI - AREA OPTIC Equipment : 1 x LED 67 W / 9141 lm Maintenance factor: 0.85
9	3 x		Order No. : EFLH14KG Luminaire name : EUROFLOOD MIDI LED Equipment : 1 x LED 52 W / 6030 lm Maintenance factor: 0.81
10	61 x		Order No. : BLY214KSRB Luminaire name : KOLO BOLLARD Equipment : 1 x LED 4 W / 404 lm Maintenance factor: 0.79
11	57 x		Order No. : CENPL0Y Luminaire name : Centurion PP65 Equipment : 1 x LED 13 W / 1364 lm Emergency : 110 lm (8.1 %) Maintenance factor: 0.68