

Elm Grove, Hayling Island

Installation : External Lighting Update

Project number : 5084

Customer : Hamlet Homes Ltd

Processed by : Pope Consulting

Date : 05.09.2023

Object : Elm Grove, Hayling Island
Installation : External Lighting Update
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1 Luminaire data

1.1 ASD Lighting PLC, Type P1 STEALTH ELITE ... (!SEG-#4LED1200-S0)

1.1.1 Data sheet

Manufacturer: ASD Lighting PLC

!SEG-#4LED1200-S0

Type P1 STEALTH ELITE GLASS 4000K S0 LENS LED1200

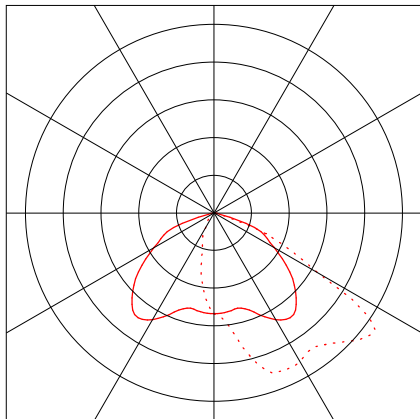
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 102.21 lm/W
Classification : A40 ↓99.8% ↑0.2%
CIE Flux Codes : 44 81 99 100 100
UGR 4H 8H : 24.9 / <10.0
Power : 13.1 W
Luminous flux : 1338.9 lm

Equipped with

Quantity : 8
Designation : LED
Colour : 4000K
Luminous flux : 167.4 lm
Colour reproduction : 70

Dimensions : 176 mm x 325 mm x 350 mm



Emergency Lighting

Light source from normal operation with reduced flux

Luminous flux : 324 lm

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1 Luminaire data

1.2 ASD Lighting PLC, Type P2 STEALTH ELITE ... (!SEG-#4LED1200-M1)

1.2.1 Data sheet

Manufacturer: ASD Lighting PLC

!SEG-#4LED1200-M1

Type P2 STEALTH ELITE GLASS 4000K M1 LENS LED1200

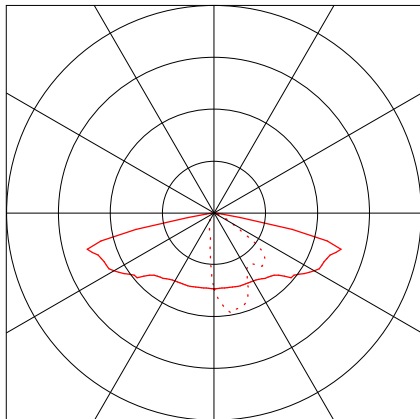
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 100.23 lm/W
Classification : A30 ↓99.8% ↑0.2%
CIE Flux Codes : 34 68 95 100 100
UGR 4H 8H : 33.5 / <10.0
Power : 13.1 W
Luminous flux : 1313 lm

Equipped with

Quantity : 8
Designation : LED
Colour : 4000K
Luminous flux : 164.1 lm
Colour reproduction : 70

Dimensions : 176 mm x 325 mm x 350 mm



Emergency Lighting

Light source from normal operation with reduced flux

Luminous flux : 324 lm

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1 Luminaire data

1.3 ASD Lighting PLC, Type R1 HWD-#4LED3620-... (!HWD-#4LED3620-S8)

1.3.1 Data sheet

Manufacturer: ASD Lighting PLC

!HWD-#4LED3620-S8

Type R1 HWD-#4LED3620-S8 Osram Rev 1

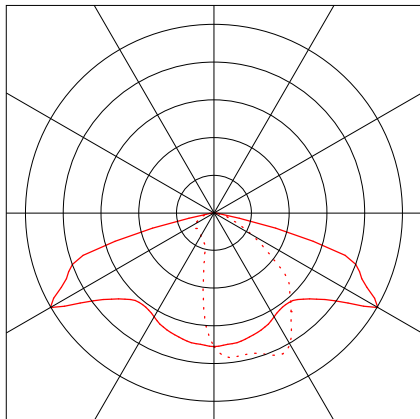
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 120.85 lm/W
Classification : A30 ↓100.0% ↑0.0%
CIE Flux Codes : 40 74 97 100 100
UGR 4H 8H : 32.8 / 19.6
Power : 24 W
Luminous flux : 2900.3 lm

Equipped with

Quantity : 36
Designation : LED
Colour : 4000
Luminous flux : 80.6 lm
Colour reproduction : 72

Dimensions : 600 mm x 235 mm x 130 mm



Emergency Lighting

Light source from normal operation with reduced flux

Luminous flux : 650 lm

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1 Luminaire data

1.4 ASD Lighting PLC, Type R2 HWD-#4LED3620-... (!HWD-#4LED3620-S0)

1.4.1 Data sheet

Manufacturer: ASD Lighting PLC

!HWD-#4LED3620-S0

Type R2 HWD-#4LED3620-S0 Osram Rev 1

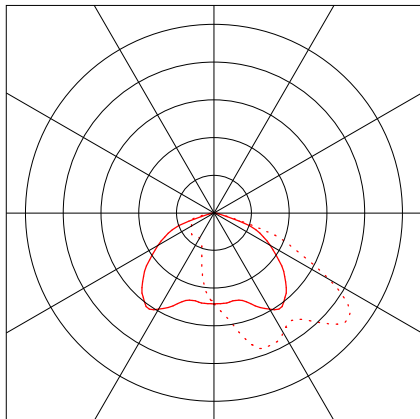
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 121.47 lm/W
Classification : A30 ↓100.0% ↑0.0%
CIE Flux Codes : 40 75 98 100 100
UGR 4H 8H : 26.8 / 21.8
Power : 24 W
Luminous flux : 2915.2 lm

Equipped with

Quantity : 36
Designation : LED
Colour : 4000
Luminous flux : 81 lm
Colour reproduction : 72

Dimensions : 600 mm x 235 mm x 130 mm



Emergency Lighting

Light source from normal operation with reduced flux

Luminous flux : 650 lm

Object : Elm Grove, Hayling Island
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1 Luminaire data

1.5 ASD Lighting PLC, Type D1 ZIP MOULDED WH... (!ZIPM-WLD3LED1000)

1.5.1 Data sheet

Manufacturer: ASD Lighting PLC

!ZIPM-WLD3LED1000

Type D1 ZIP MOULDED WHITE DROP GLASS 3000K LED1000

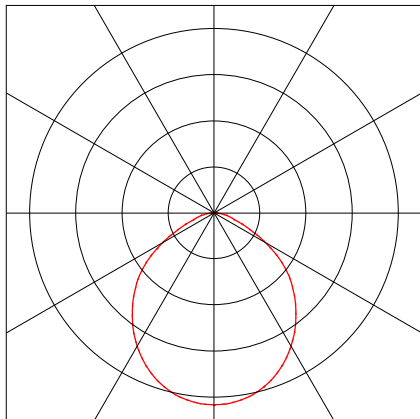
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 101.86 lm/W
Classification : A40 ↓98.9% ↑1.1%
CIE Flux Codes : 54 86 98 99 100
UGR 4H 8H : 23.5 / 23.5
Power : 13.38 W
Luminous flux : 1362.9 lm

Equipped with

Quantity : 1
Designation : LED
Colour : 3000K
Luminous flux : 1362.9 lm

Dimensions : Ø240 mm x 95 mm



Emergency Lighting

Light source from normal operation with reduced flux

Luminous flux : 217 lm

Object : Elm Grove, Hayling Island
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2 Exterior

2.1 Description, Exterior

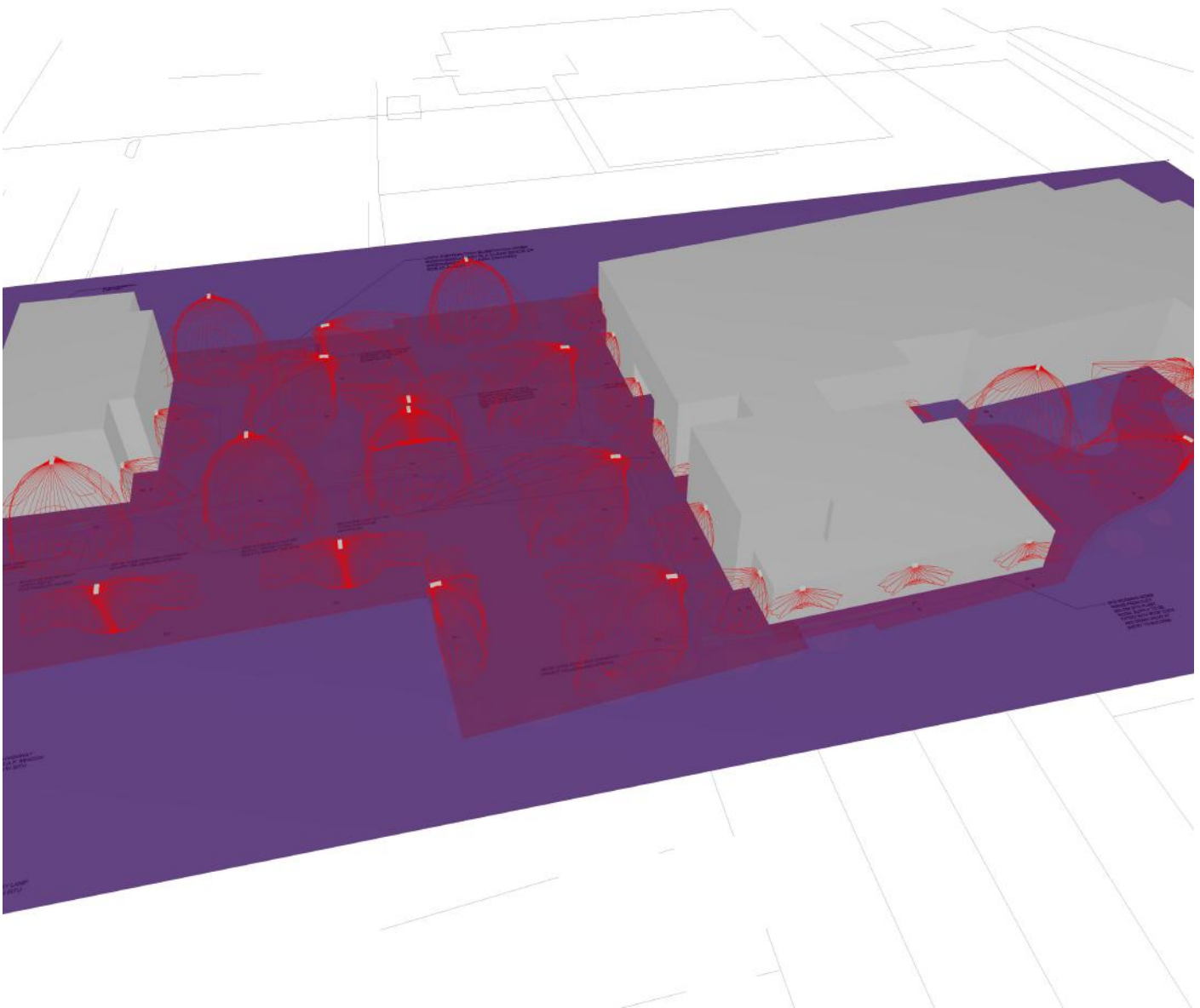
2.1.1 Floor plan



Object : Elm Grove, Hayling Island
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2.1 Description, Exterior

2.1.2 3D view, View 1

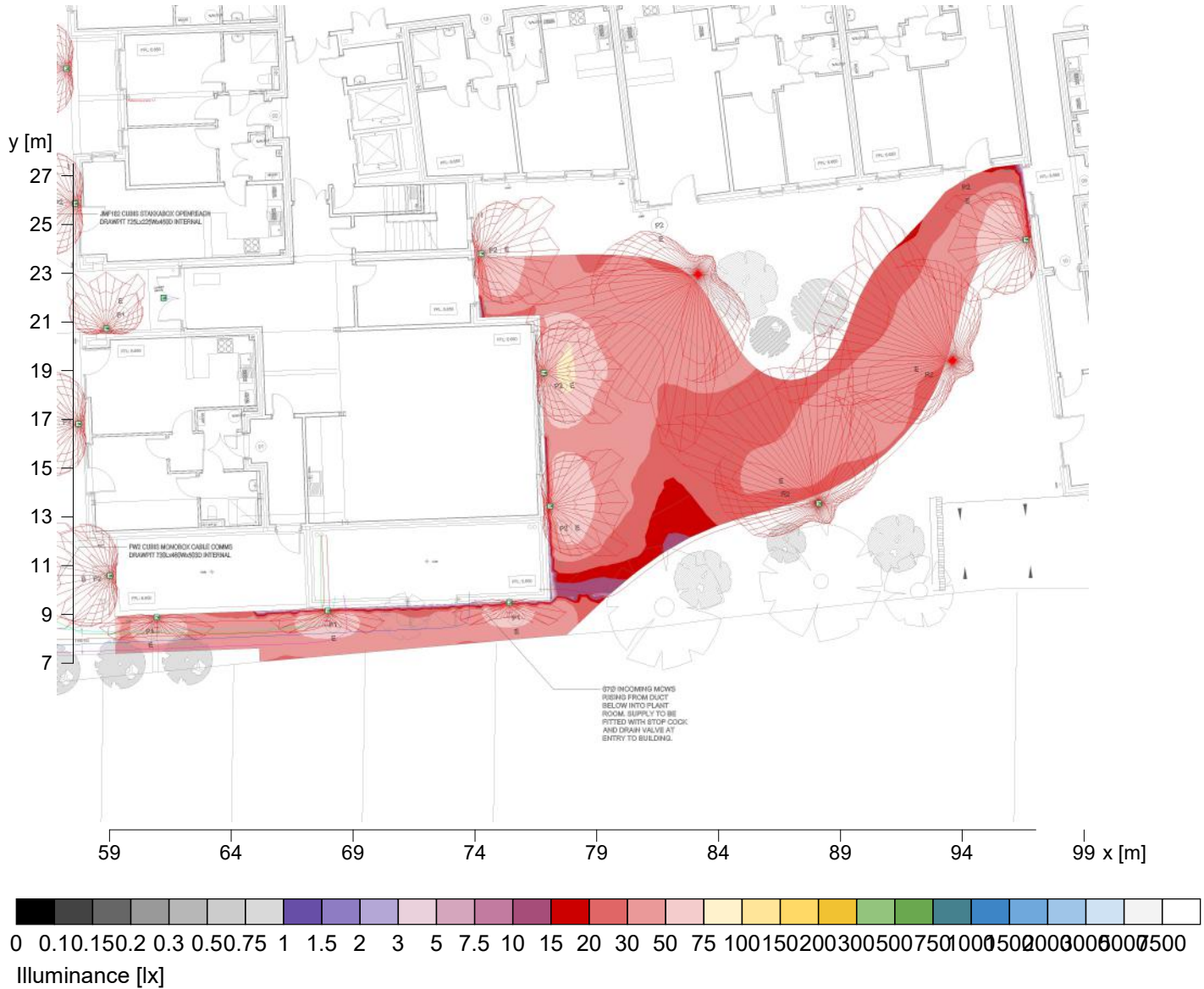


Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 26 lx
Minimum illuminance	E_{min}	: 1 lx
Maximum illuminance	E_{max}	: 130 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 20.95 (0.05)
Diversity U_d	E_{min}/E_{max}	: 1 : 104.56 (0.01)

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2.3 Calculation results, Exterior

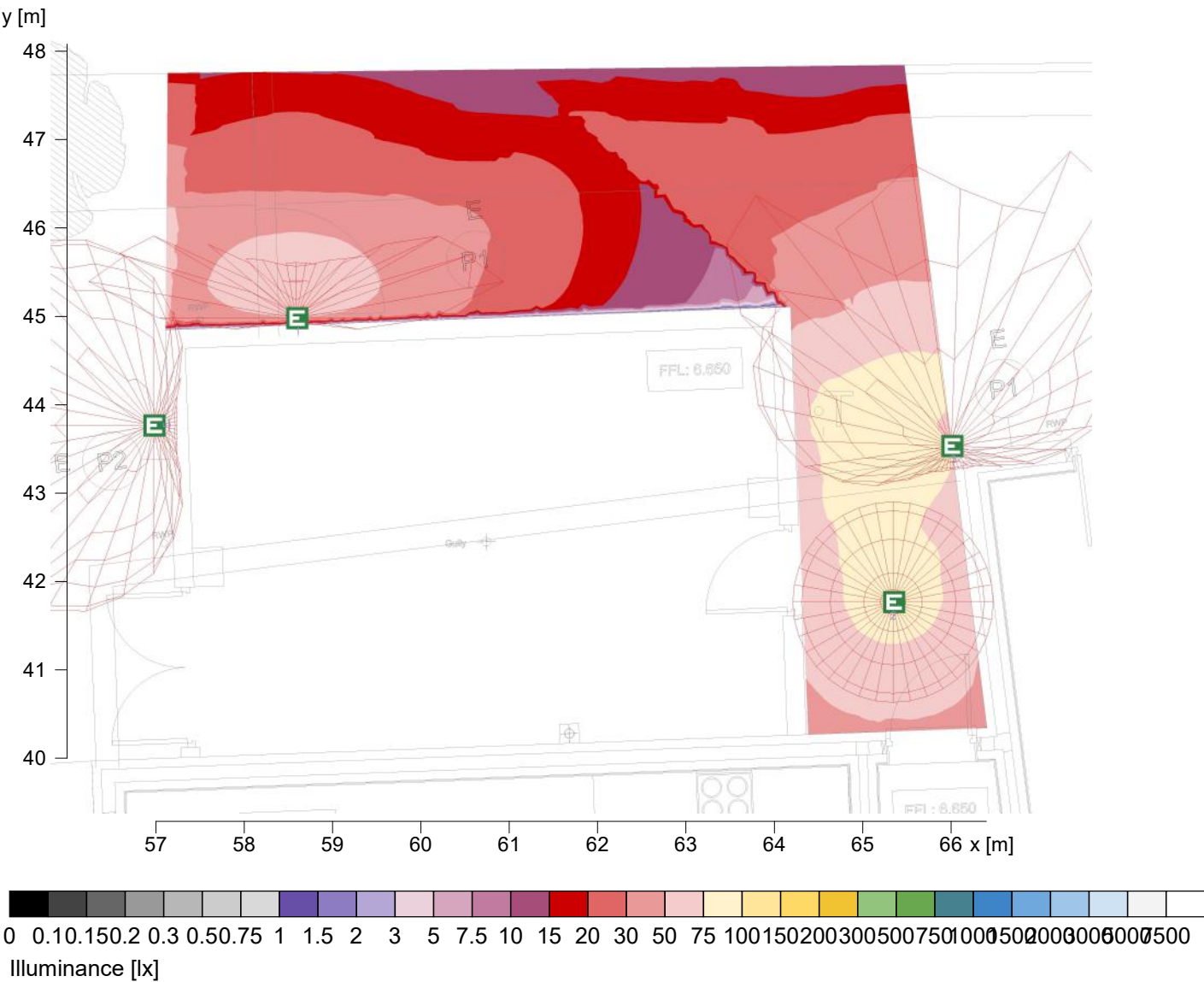
2.3.2 Pseudo colours, South Garden (E)



Height reference plane
Average illuminance
Minimum illuminance
Maximum illuminance
Uniformity U_0
Diversity U_d

: 0.00 m
 $\bar{E}_m$: 35.8 lx
 E_{min} : 1.8 lx
 E_{max} : 82.6 lx
 $E_{min}/\bar{E}_m$: 1 : 19.78 (0.05)
 E_{min}/E_{max} : 1 : 45.67 (0.02)

2.3 Calculation results, Exterior
2.3.3 Pseudo colours, North Exit (E)

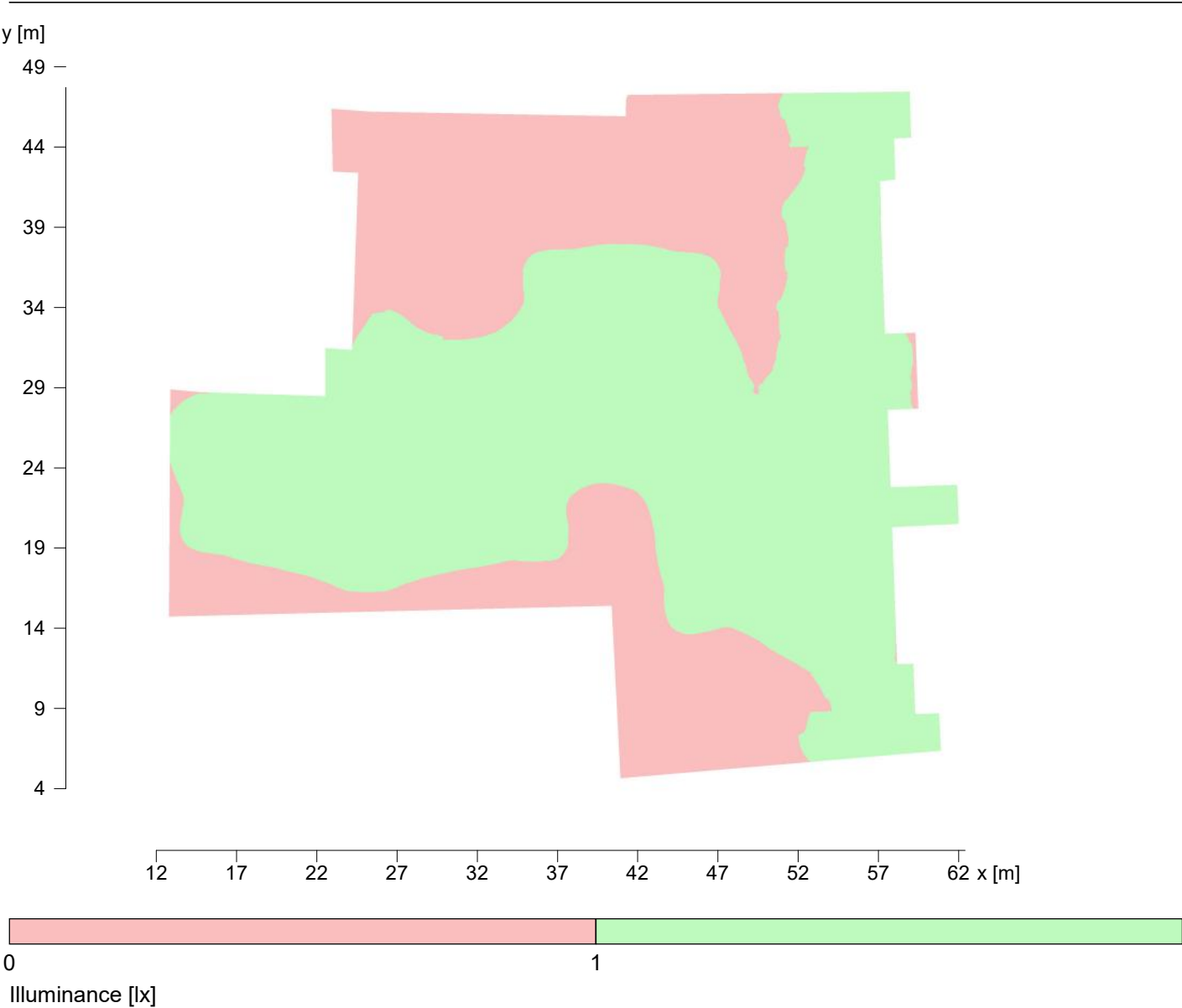


Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 38.4 lx
Minimum illuminance	E_{min}	: 4.2 lx
Maximum illuminance	E_{max}	: 82.1 lx
Uniformity U_0	$E_{min}/\bar{E}_m$	: 1 : 9.08 (0.11)
Diversity U_d	E_{min}/E_{max}	: 1 : 19.40 (0.05)

2 Exterior

2.4 Calculation results, Exterior

2.4.5 Boundary line, Car Park Escape 1Lx (E)



Required minimum illuminance

: 1 lx

Minimum illuminance

Emin

: 0 lx

Maximum illuminance

Emax

: 22 lx

Diversity

Emin/Emax

: --- (Threshold value 1:40)

Height

: 0 m

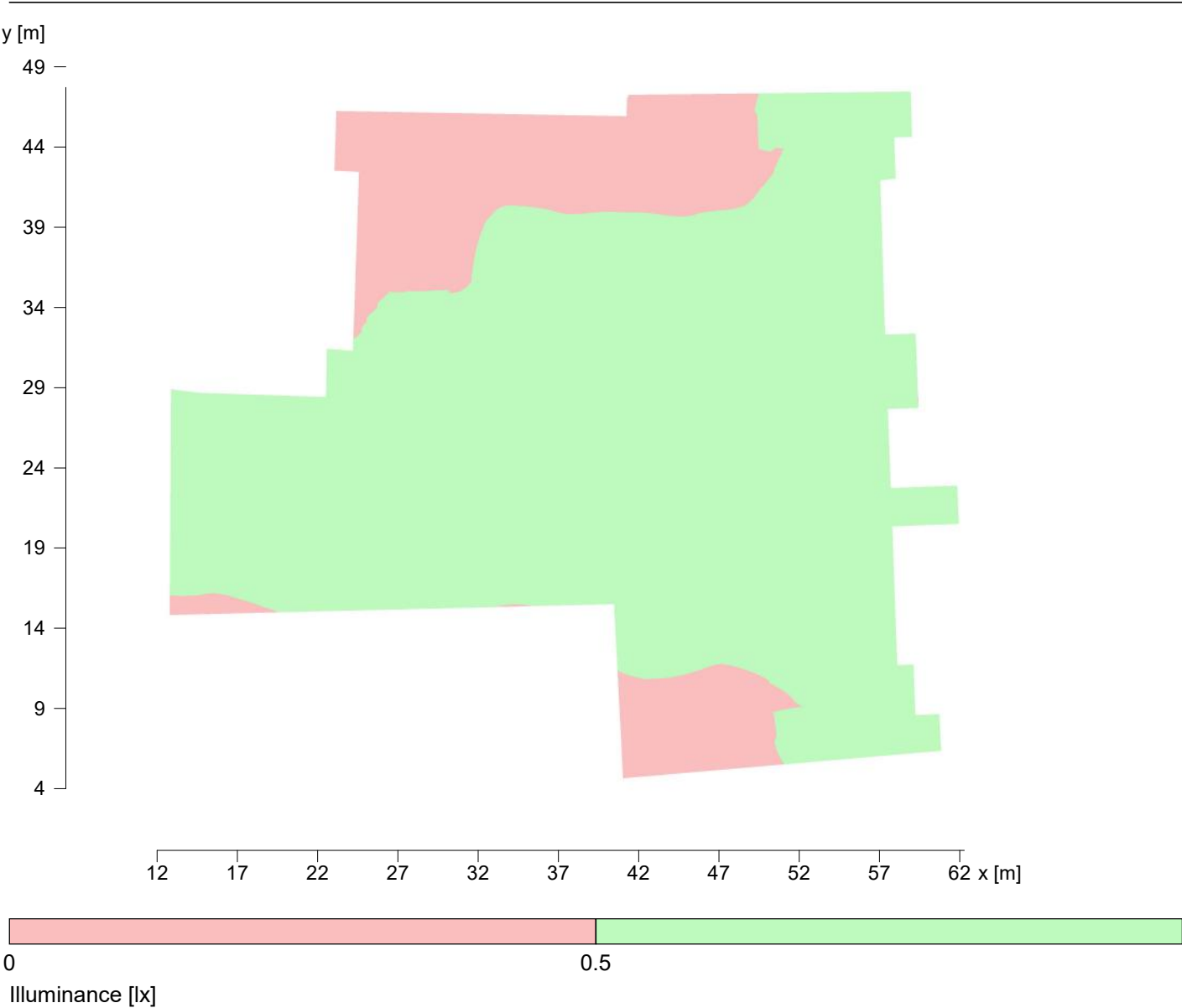
Calculation algorithm used

: Direct component

Maintenance factor

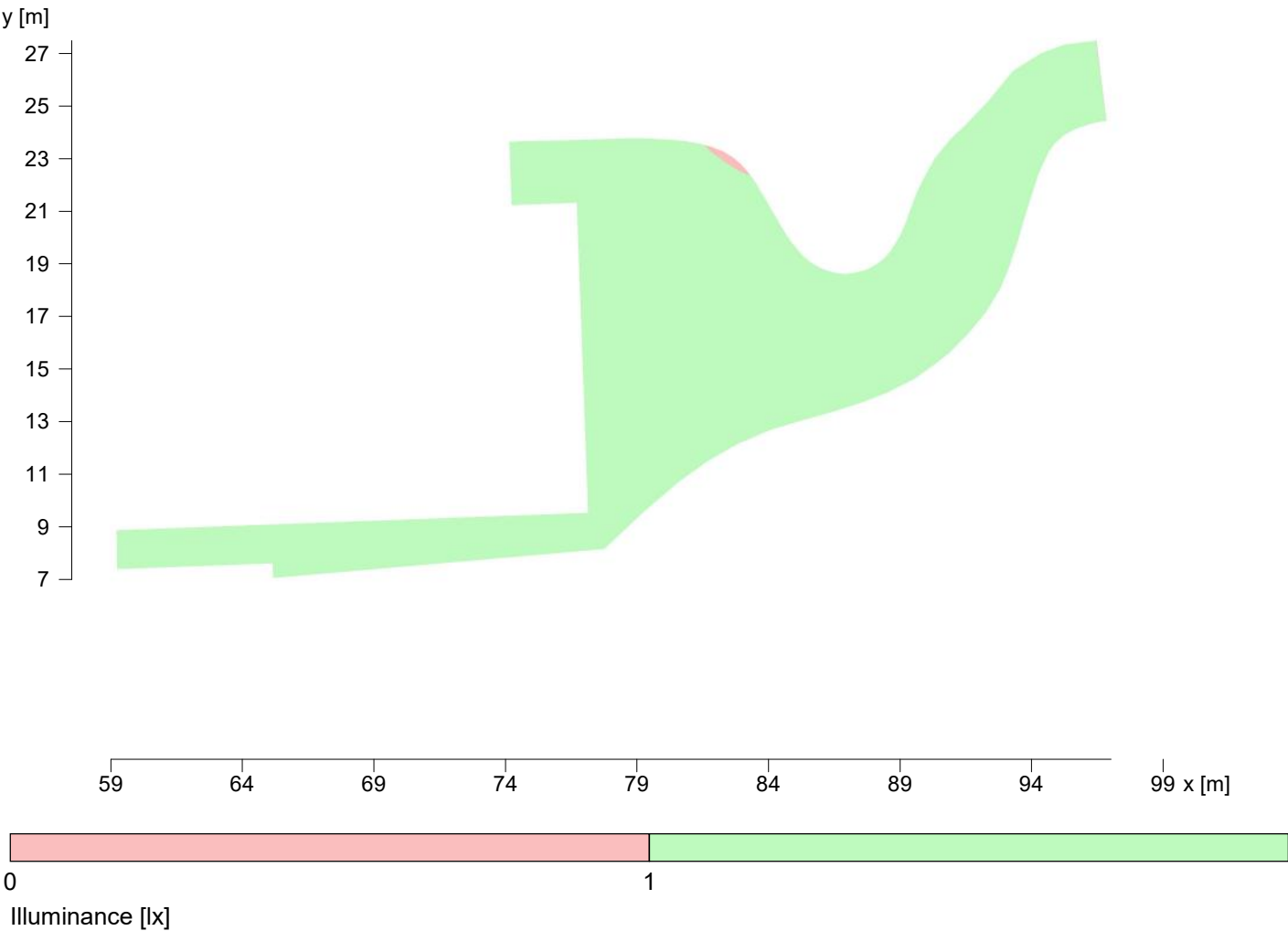
: 0.8

2.4 Calculation results, Exterior
2.4.6 Boundary line, Car Park Escape 0.5Lx (E)



Required minimum illuminance		: 0.5 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 22 lx
Diversity	Emin/Emax	: --- (Threshold value 1:40)
Height		: 0 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

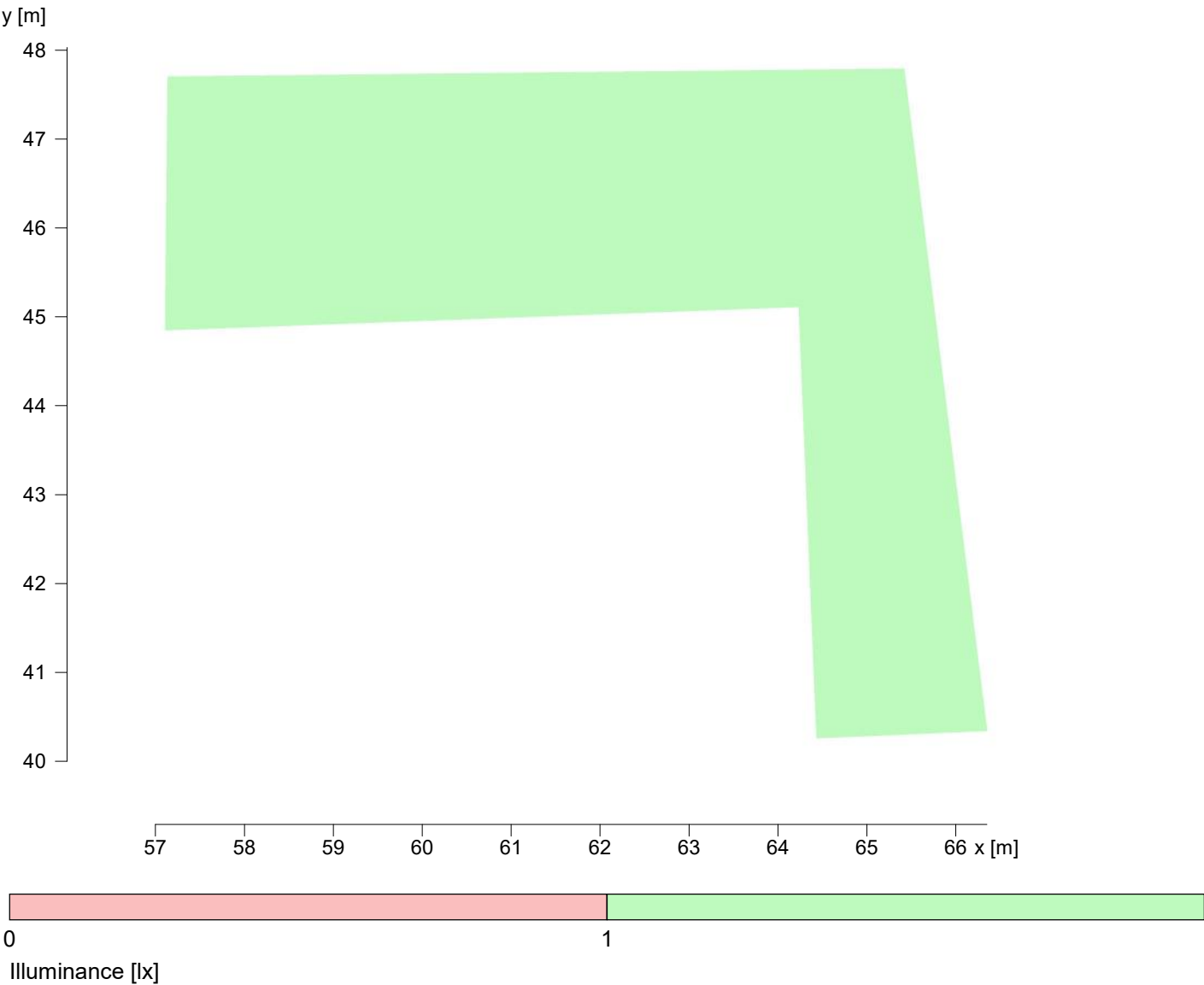
2.4 Calculation results, Exterior
2.4.7 Boundary line, South Garden Escape (E)



Required minimum illuminance		: 1 lx
Minimum illuminance	Emin	: 0.07 lx
Maximum illuminance	Emax	: 17 lx
Diversity	Emin/Emax	: 1 : 259.00 (0.00) (Threshold value 1:40)
Height		: 0 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8

2.4 Calculation results, Exterior

2.4.8 Boundary line, North Exit (E)



Required minimum illuminance		: 1 lx
Minimum illuminance	Emin	: 1.5 lx
Maximum illuminance	Emax	: 17 lx
Diversity	Emin/Emax	: 1 : 11.90 (0.08) (Threshold value 1:40)
Height		: 0 m
Calculation algorithm used		: Direct component
Maintenance factor		: 0.8