Luceco Lighting Report

Installation : Larkhill

Project number	:	Larkhill
Customer	:	
Processed by	:	
Date	:	05.06.2023

Project description:
Mounting Heights:
Wall Mounted Semita Arc - 3M.
Wal Mounted Viva City Flood - 6M
Column Mounted Viva City Pro 5M.

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.

Jay Taylor - Lighting Projects Sales Manager
LUCECO PLC - Stafford Park 1, Telford, Shropshire, TF3 3BD

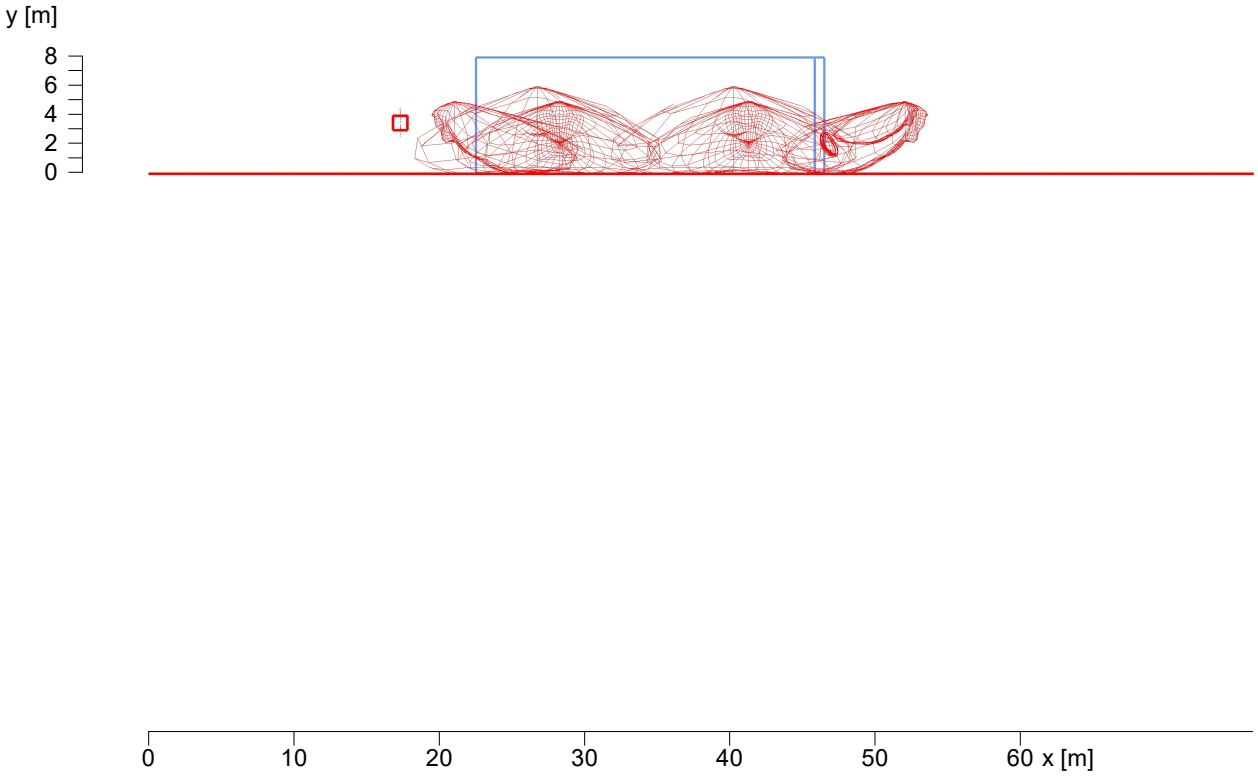
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1 Exterior 1

1.1 Description, Exterior 1

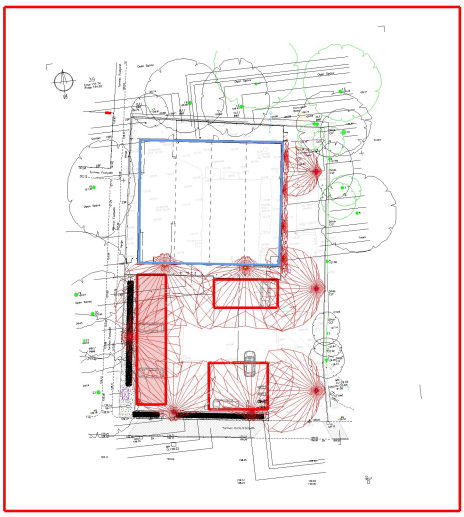
1.1.1 Floor plan



1 Exterior 1

1.2 Summary, Exterior 1

1.2.1 Result overview, Parking





General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	55830 lm
Total power	420 W
Total power per area (6384.00 m²)	0.07 W/m²

Illuminance

Average illuminance	Em	33.4 lx
Minimum illuminance	Emin	16.4 lx
Maximum illuminance	Emax	42 lx
Uniformity Uo	Emin/Em	1:2.04 (0.49)
Diversity Ud	Emin/Emax	1:2.56 (0.39)

Type No.\Make

Kingfisher Lighting Ltd

1 2
Order No. : 60w LED 4000k Viva City Flood 585mA with FW70 Optic
Luminaire name : Viva City Flood
Equipment : 1 x Philips 5050 60 W / 7001 lm

4 6
Order No. : 40w LED Viva City Pro 4000k 804mA with FW70 Optic
Luminaire name : Viva City Pro
Equipment : 1 x Philips 5050 40 W / 5880 lm

1 Exterior 1

1.2 Summary, Exterior 1

1.2.1 Result overview, Parking

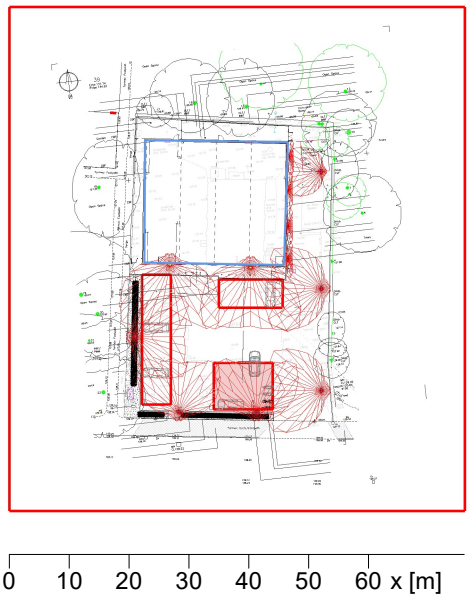
3 4



Kingfisher Lighting Ltd - Luceco
Order No. : 15w LED 4000k Semita Arc bulkhead with cycle optic
Luminaire name : LED Semita Arc
Equipment : 1 x 15w LED 15 W / 1637 lm

1.2 Summary, Exterior 1

1.2.2 Result overview, Parking



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	55830 lm
Total power	420 W
Total power per area (6384.00 m²)	0.07 W/m²

Illuminance

Average illuminance	Em	31.6 lx
Minimum illuminance	Emin	24.3 lx
Maximum illuminance	Emax	40.5 lx
Uniformity Uo	Emin/Em	1:1.3 (0.77)
Diversity Ud	Emin/Emax	1:1.67 (0.6)

Type No.\Make

Kingfisher Lighting Ltd

1 2
Order No. : 60w LED 4000k Viva City Flood 585mA with FW70 Optic
Luminaire name : Viva City Flood
Equipment : 1 x Philips 5050 60 W / 7001 lm

4 6
Order No. : 40w LED Viva City Pro 4000k 804mA with FW70 Optic
Luminaire name : Viva City Pro
Equipment : 1 x Philips 5050 40 W / 5880 lm

1.2 Summary, Exterior 1

1.2.2 Result overview, Parking

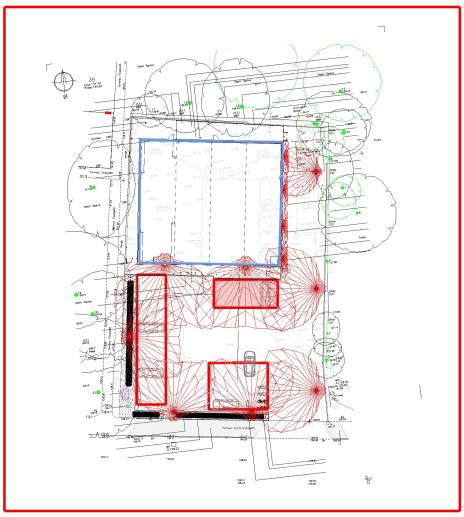
3 4



Kingfisher Lighting Ltd - Luceco
Order No. : 15w LED 4000k Semita Arc bulkhead with cycle optic
Luminaire name : LED Semita Arc
Equipment : 1 x 15w LED 15 W / 1637 lm

1.2 Summary, Exterior 1

1.2.3 Result overview, Measuring area 3





General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux of all lamps	55830 lm
Total power	420 W
Total power per area (6384.00 m²)	0.07 W/m²

Illuminance

Average illuminance	Em	33.6 lx
Minimum illuminance	Emin	28.6 lx
Maximum illuminance	Emax	39.7 lx
Uniformity Uo	Emin/Em	1:1.17 (0.85)
Diversity Ud	Emin/Emax	1:1.39 (0.72)

Type No.\Make

Kingfisher Lighting Ltd

1 2
Order No. : 60w LED 4000k Viva City Flood 585mA with FW70 Optic
Luminaire name : Viva City Flood
Equipment : 1 x Philips 5050 60 W / 7001 lm

4 6
Order No. : 40w LED Viva City Pro 4000k 804mA with FW70 Optic
Luminaire name : Viva City Pro
Equipment : 1 x Philips 5050 40 W / 5880 lm

1.2 Summary, Exterior 1

1.2.3 Result overview, Measuring area 3

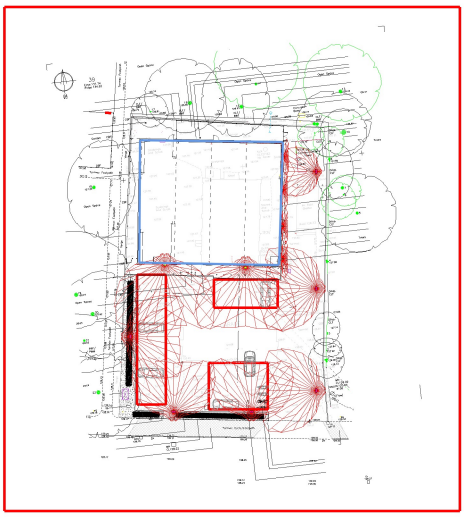
3 4



Kingfisher Lighting Ltd - Luceco
Order No. : 15w LED 4000k Semita Arc bulkhead with cycle optic
Luminaire name : LED Semita Arc
Equipment : 1 x 15w LED 15 W / 1637 lm

1.2 Summary, Exterior 1

1.2.4 Result overview, Vertical Illuminance on Window 39



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	55830 lm
Total power	420 W
Total power per area (6384.00 m²)	0.07 W/m²

Illuminance

Average illuminance	Em	0.03 lx
Minimum illuminance	Emin	0.03 lx
Maximum illuminance	Emax	0.04 lx
Uniformity Uo	Emin/Em	1:1.1 (0.91)
Diversity Ud	Emin/Emax	1:1.2 (0.83)

Type No.\Make

Kingfisher Lighting Ltd

1 2

Order No.	: 60w LED 4000k Viva City Flood 585mA with FW70 Optic
Luminaire name	: Viva City Flood
Equipment	: 1 x Philips 5050 60 W / 7001 lm

4 6

Order No.	: 40w LED Viva City Pro 4000k 804mA with FW70 Optic
Luminaire name	: Viva City Pro
Equipment	: 1 x Philips 5050 40 W / 5880 lm

1.2 Summary, Exterior 1

1.2.4 Result overview, Vertical Illuminance on Window 39

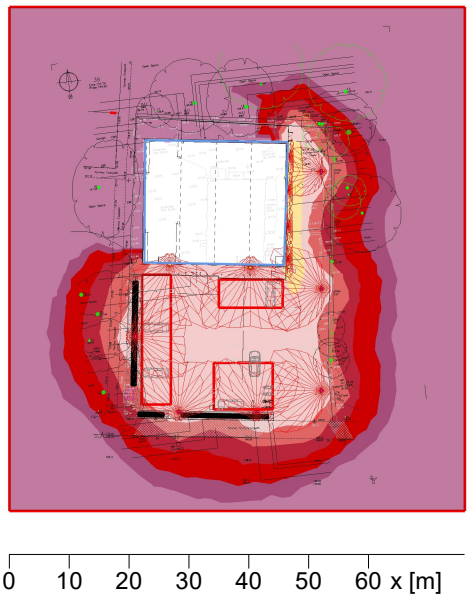
3 4



Kingfisher Lighting Ltd - Luceco
Order No. : 15w LED 4000k Semita Arc bulkhead with cycle optic
Luminaire name : LED Semita Arc
Equipment : 1 x 15w LED 15 W / 1637 lm

1.2 Summary, Exterior 1

1.2.5 Result overview, Evaluation area 1





General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	55830.00 lm
Total power	420.0 W
Total power per area (6384.00 m²)	0.07 W/m² (0.93 W/m²/100lx)

Evaluation area 1	**Reference plane 1.1**
	Horizontal
Em	7.1 lx
Emin	0 lx
Emin/Em (Uo)	---
Emin/Emax (Ud)	---
Position	0.00 m

Type No.\Make

Kingfisher Lighting Ltd

1 2

Order No.	: 60w LED 4000k Viva City Flood 585mA with FW70 Optic
Luminaire name	: Viva City Flood
Equipment	: 1 x Philips 5050 60 W / 7001 lm

4 6

Order No.	: 40w LED Viva City Pro 4000k 804mA with FW70 Optic
Luminaire name	: Viva City Pro
Equipment	: 1 x Philips 5050 40 W / 5880 lm

1.2 Summary, Exterior 1

1.2.5 Result overview, Evaluation area 1

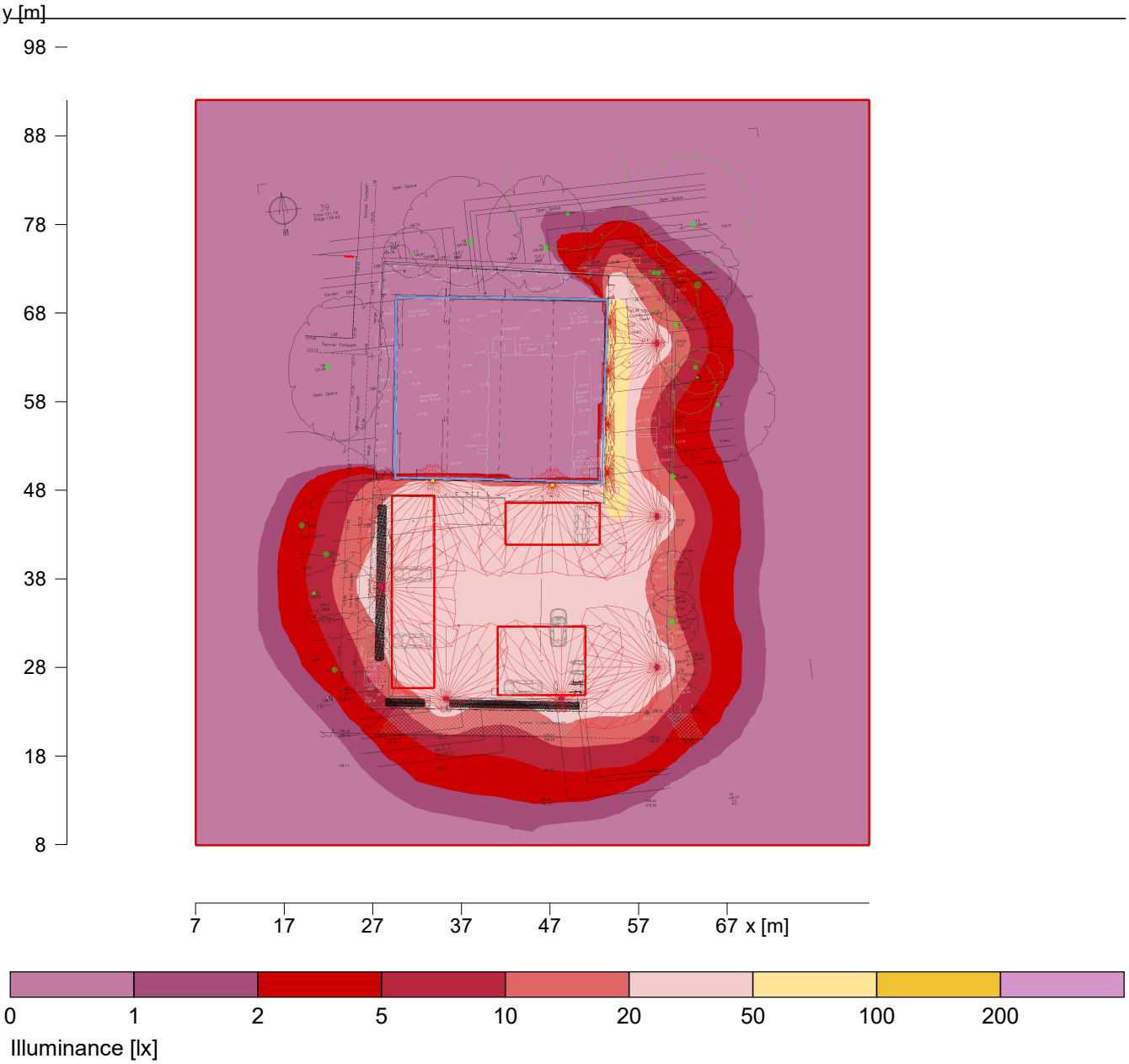


Kingfisher Lighting Ltd - Luceco
Order No. : 15w LED 4000k Semita Arc bulkhead with cycle optic
Luminaire name : LED Semita Arc
Equipment : 1 x 15w LED 15 W / 1637 lm

1 Exterior 1

1.3 Calculation results, Exterior 1

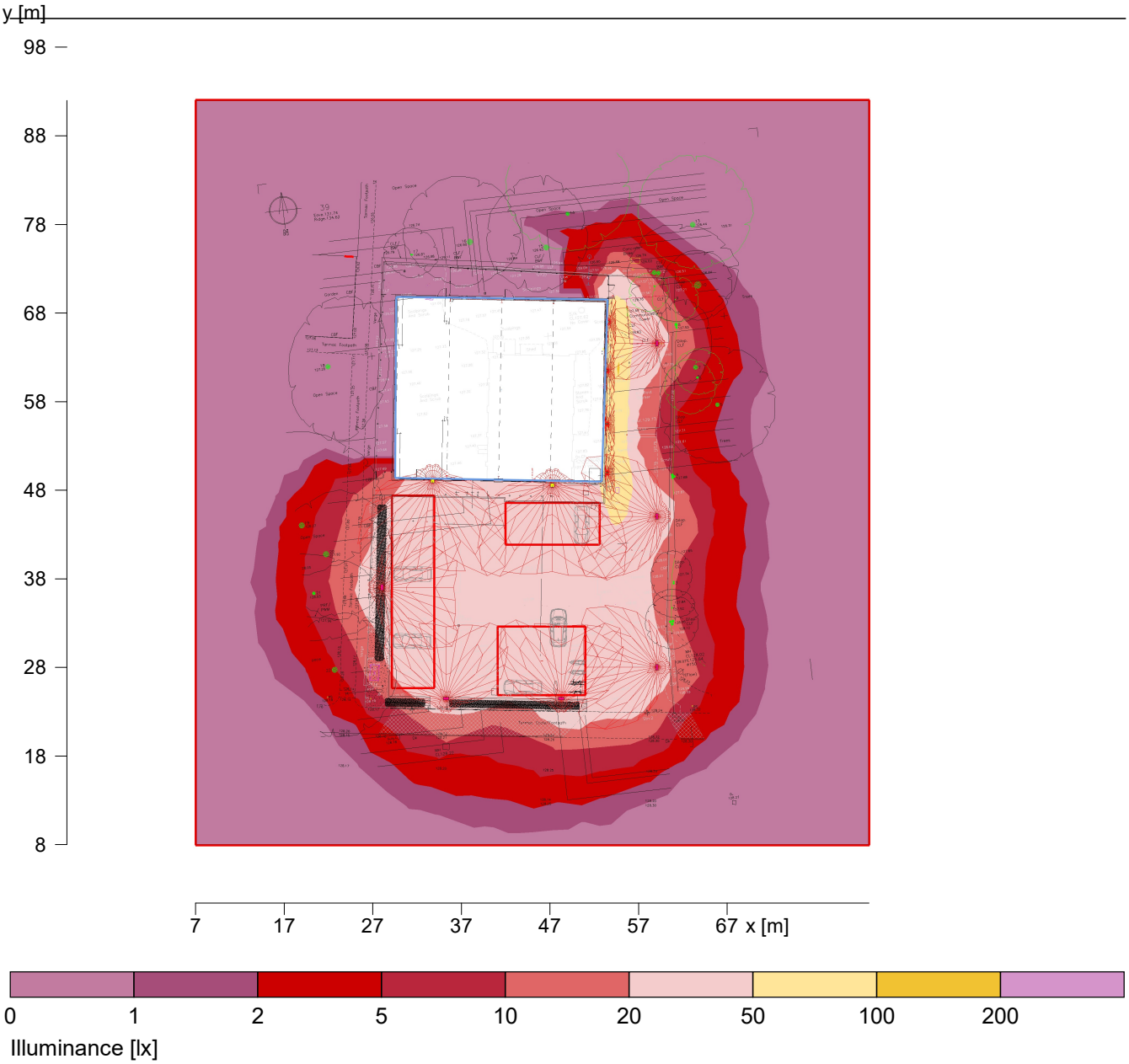
1.3.1 Pseudo colours, Floor (E)



Average illuminance		Em	: 5.9 lx
Minimum illuminance		Emin	: 0 lx
Maximum illuminance		Emax	: 93.6 lx
Uniformity Uo		Emin/Em	: ---
Diversity Ud		Emin/Emax	: ---

1.3 Calculation results, Exterior 1

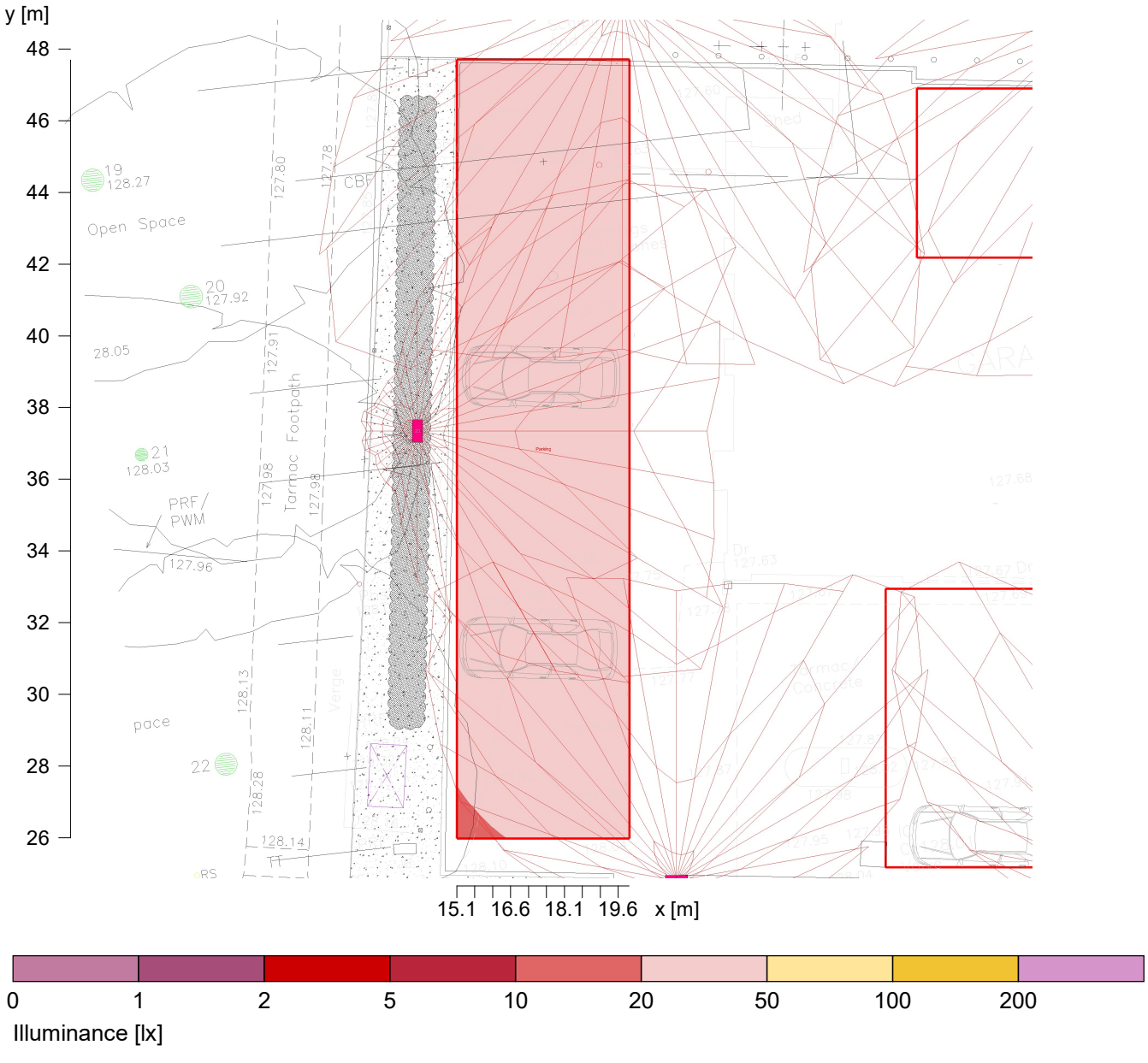
1.3.2 Pseudo colours, Reference plane 1.1 (E)



Height reference plane		: 0.00 m
Average illuminance	Em	: 7.1 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 82.7 lx
Uniformity Uo	Emin/Em	: ---
Diversity Ud	Emin/Emax	: ---

1.3 Calculation results, Exterior 1

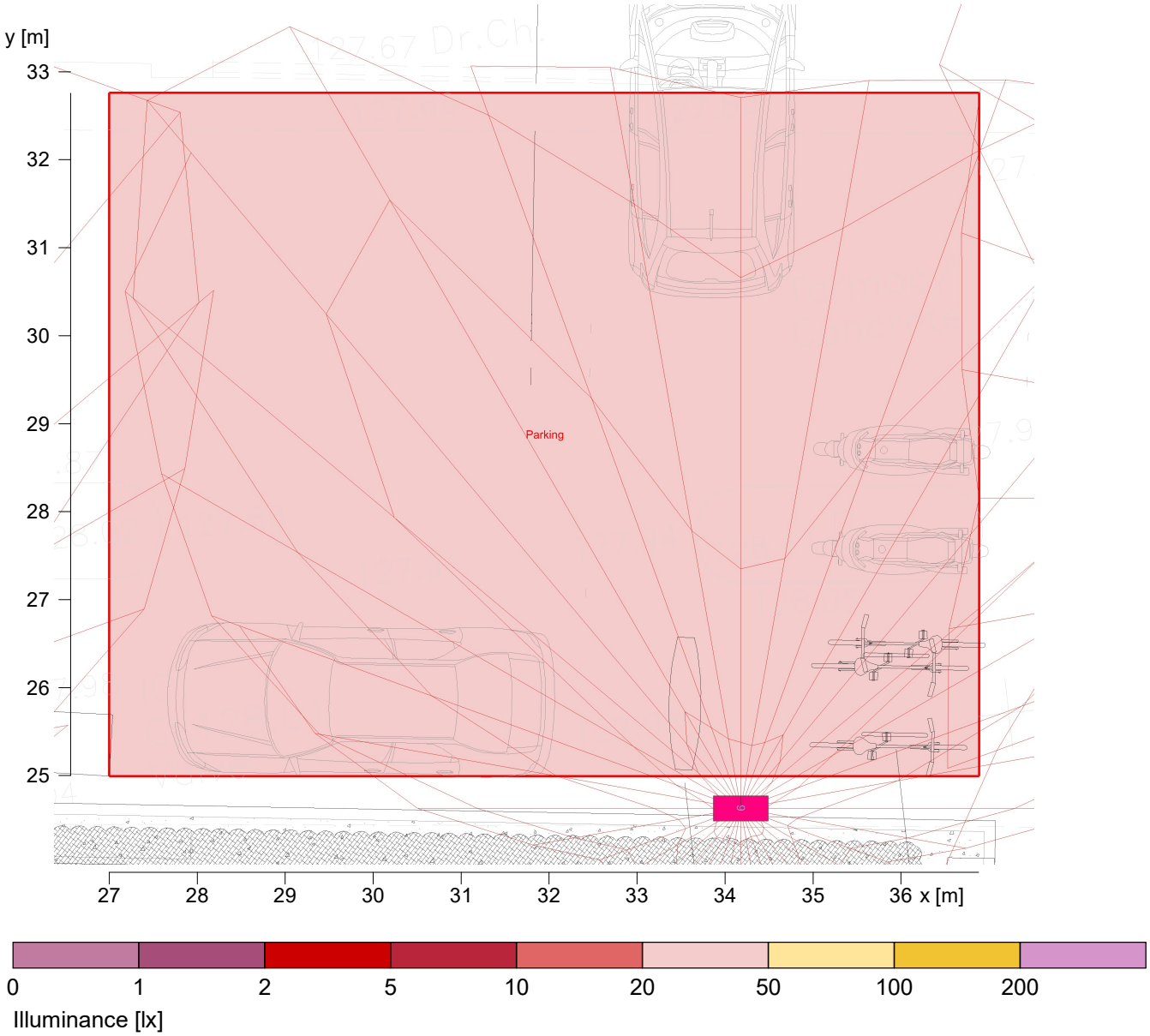
1.3.3 Pseudo colours, Parking (E)



Height reference plane		: 0.00 m
Average illuminance	Em	: 33.4 lx
Minimum illuminance	Emin	: 16.4 lx
Maximum illuminance	Emax	: 42 lx
Uniformity Uo	Emin/Em	: 1 : 2.04 (0.49)
Diversity Ud	Emin/Emax	: 1 : 2.56 (0.39)

1.3 Calculation results, Exterior 1

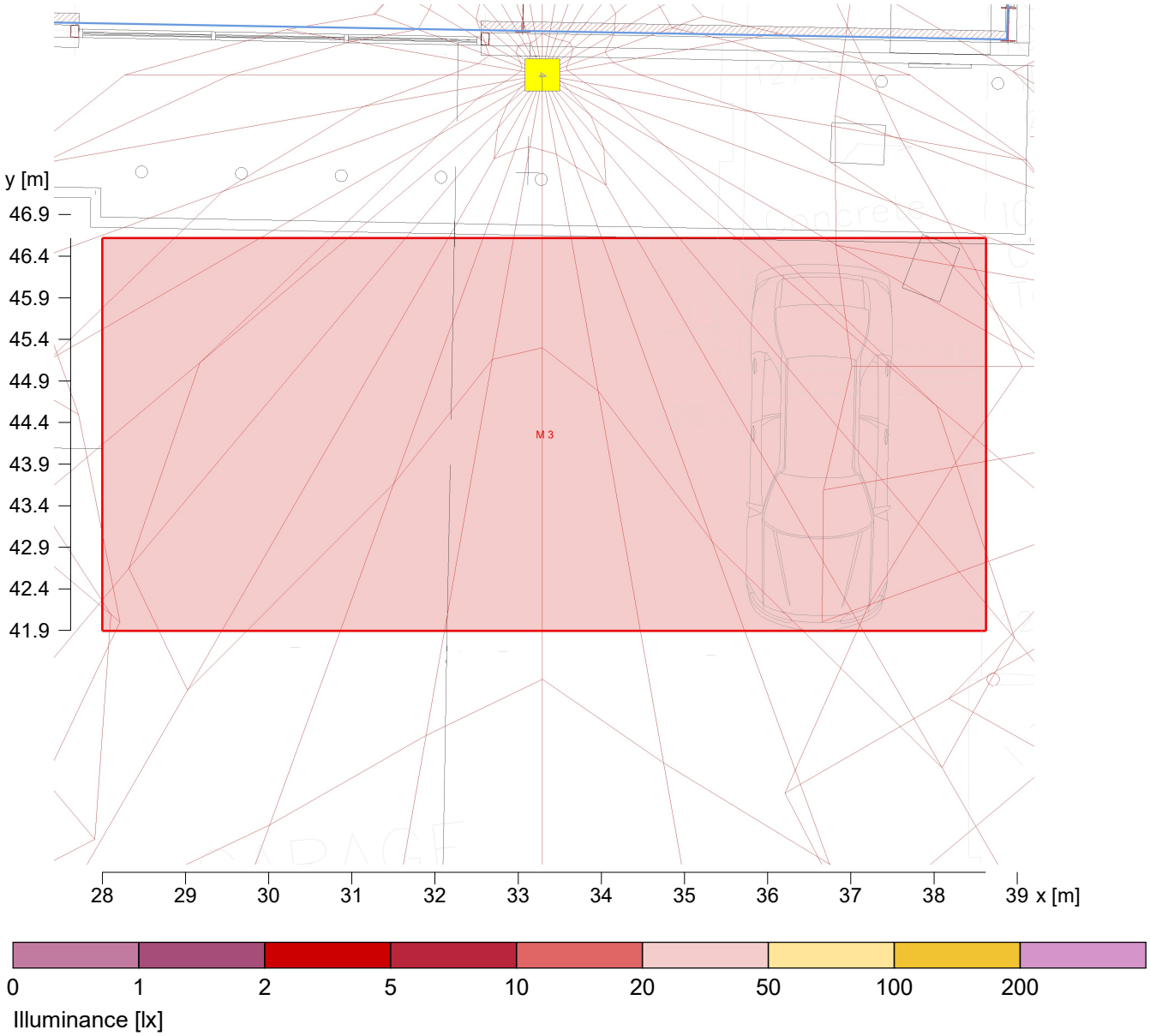
1.3.4 Pseudo colours, Parking (E)



Height reference plane		: 0.00 m
Average illuminance	Em	: 31.6 lx
Minimum illuminance	Emin	: 24.3 lx
Maximum illuminance	Emax	: 40.5 lx
Uniformity Uo	Emin/Em	: 1 : 1.30 (0.77)
Diversity Ud	Emin/Emax	: 1 : 1.67 (0.60)

1.3 Calculation results, Exterior 1

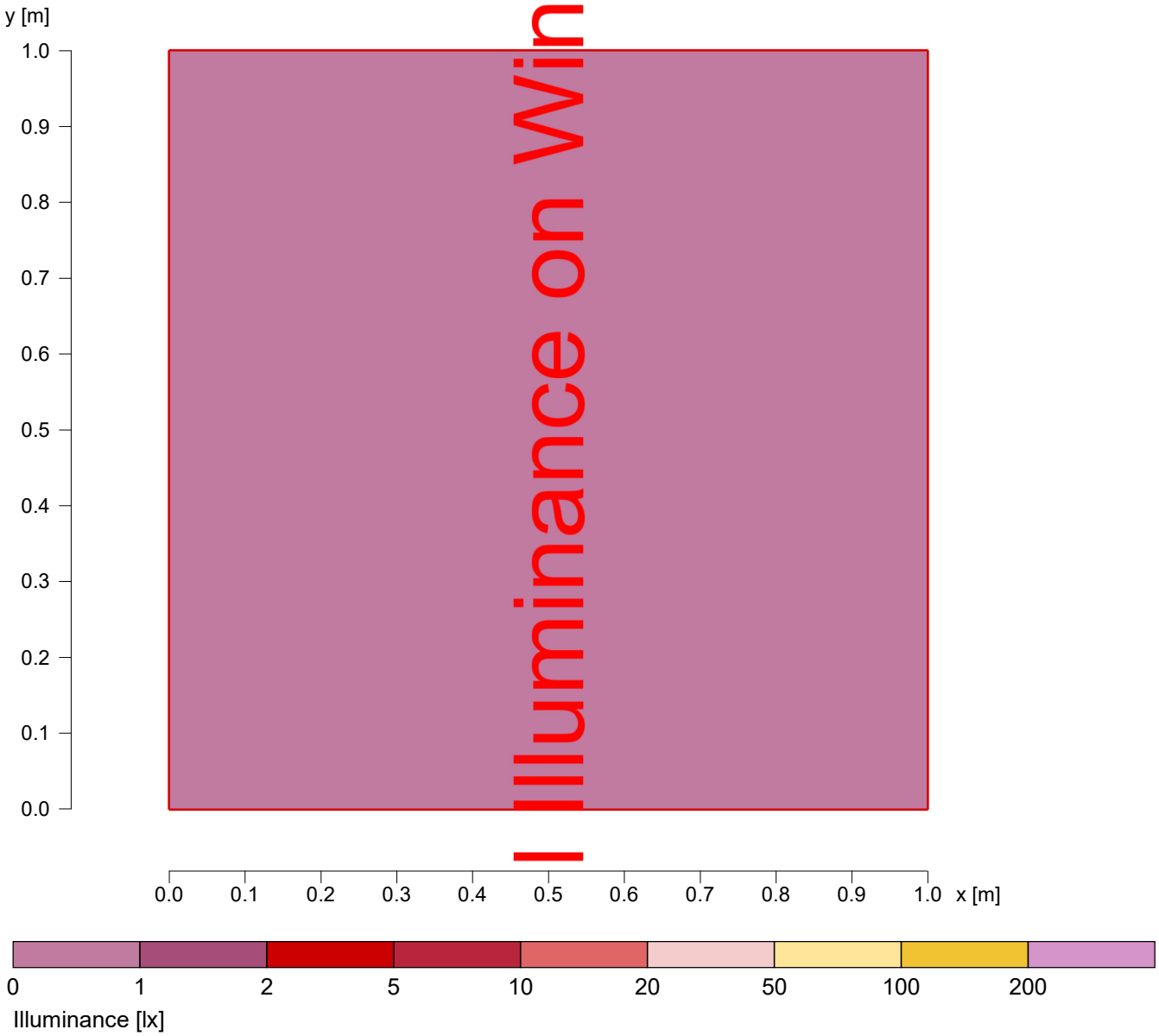
1.3.5 Pseudo colours, Measuring area 3 (E)



Height reference plane		: 0.00 m
Average illuminance	Em	: 33.6 lx
Minimum illuminance	Emin	: 28.6 lx
Maximum illuminance	Emax	: 39.7 lx
Uniformity Uo	Emin/Em	: 1 : 1.17 (0.85)
Diversity Ud	Emin/Emax	: 1 : 1.39 (0.72)

1.3 Calculation results, Exterior 1

1.3.6 Pseudo colours, Vertical Illuminance on Window 39 (E)



Average illuminance		Em	: 0.03 lx
Minimum illuminance		Emin	: 0.03 lx
Maximum illuminance		Emax	: 0.04 lx
Uniformity Uo		Emin/Em	: 1 : 1.10 (0.91)
Diversity Ud		Emin/Emax	: 1 : 1.20 (0.83)