

P1

Installation : Access Reading

Project number : MC5529

Customer :

Processed by : Gary Nolan

Date : 14.12.2017

The following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergences can occur.

Guarantee claims for luminaire data are excluded.

Relux and the luminaire manufacturers accept no liability for consequential damage and damage which is occasioned to the user or to third parties.

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1 Luminaire data

1.1 Thorlux, REALTA LED POLY COVER (RL17578)

1.1.1 Data sheet

Manufacturer: Thorlux

RL17578 REALTA LED POLY COVER

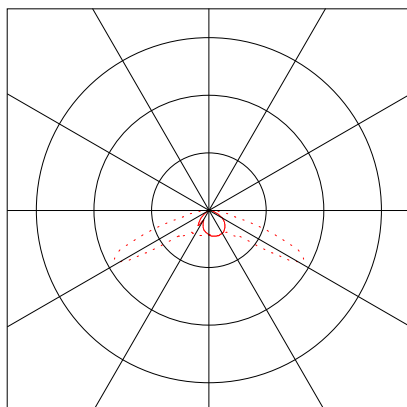
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 54.17 lm/W
Classification : A30 ↓98.3% ↑1.7%
CIE Flux Codes : 27 59 92 98 100
UGR 4H 8H : 16.9 / 29.9
Power : 24 W
Luminous flux : 1300 lm

Equipped with

Quantity : 1
Designation : 18W LED
Colour :
Luminous flux : 1300 lm

Dimensions : 360 mm x 260 mm x 320 mm

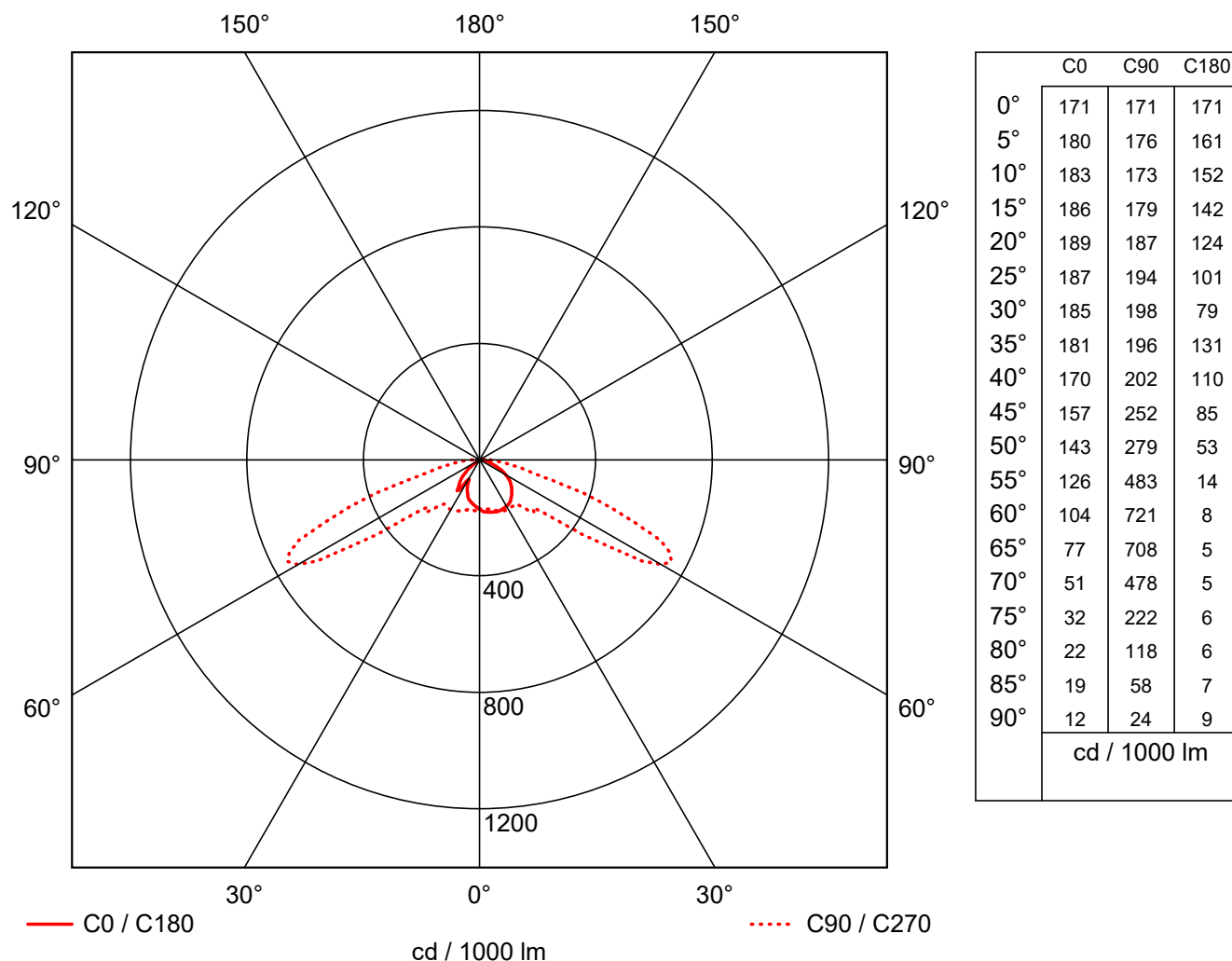


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1.1 Thorlux, REALTA LED POLY COVER (RL17578)

1.1.2 LDC



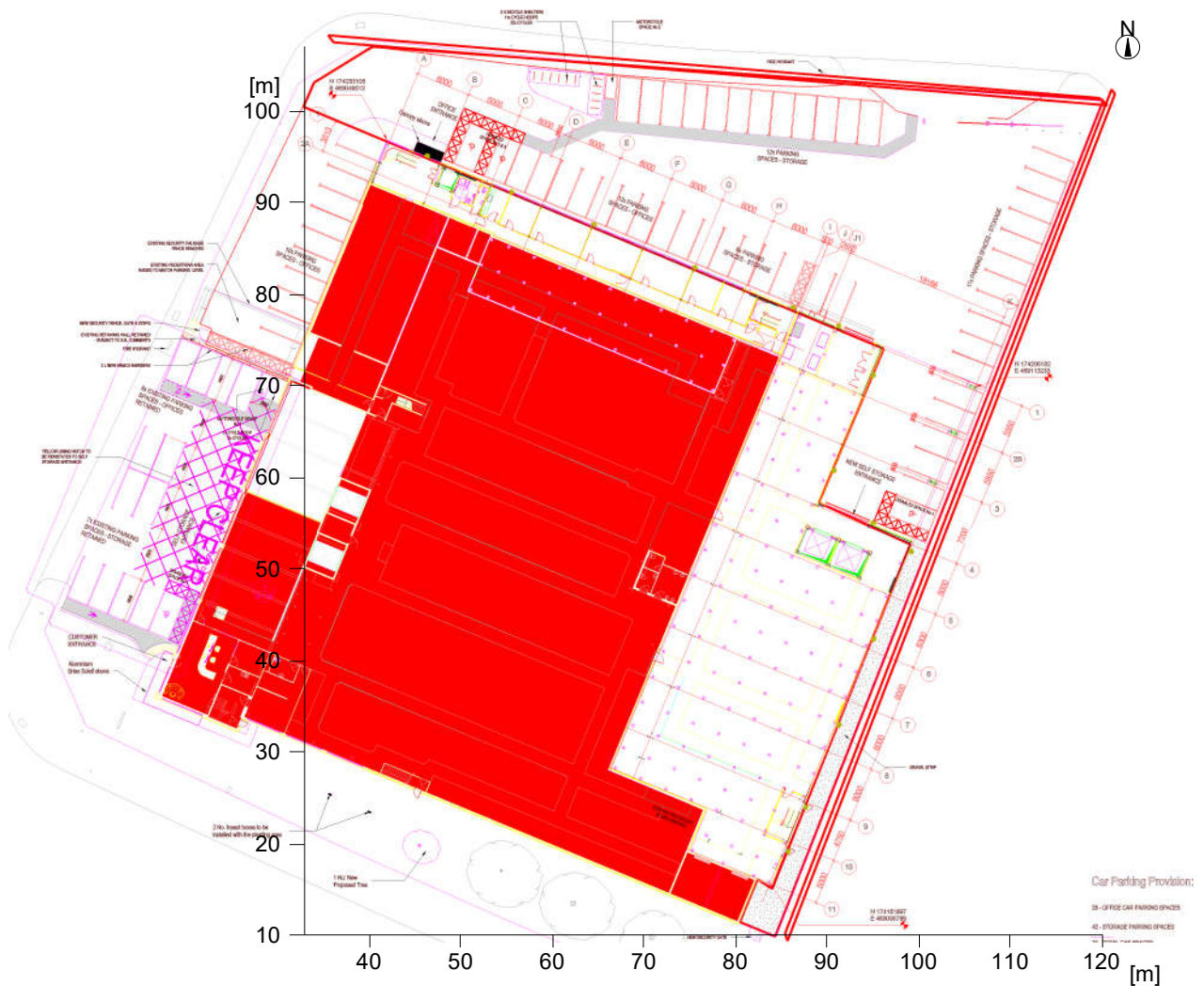
Manufacturer : Thorlux
Order number : RL17578
Luminaire name : REALTA LED POLY COVER
Equipment : 1 x 18W LED 24 W / 1300 lm
Dimensions : L 360 mm x W 260 mm x H 320 mm
File name : rlx_20171214104000.ltd

Efficiency factor : 100%
Luminaire efficacy : 54.17 lm/W (A30)
Light distribution : sym. to C0-C180
Beam Angle : 132.3° C90-C270
-- C0
-- C180

2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Floor plan



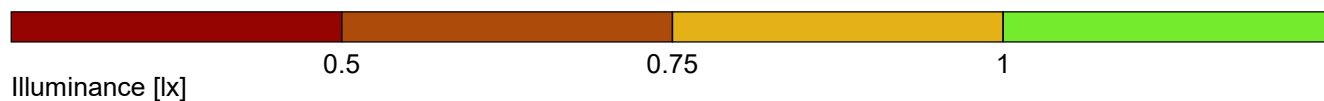
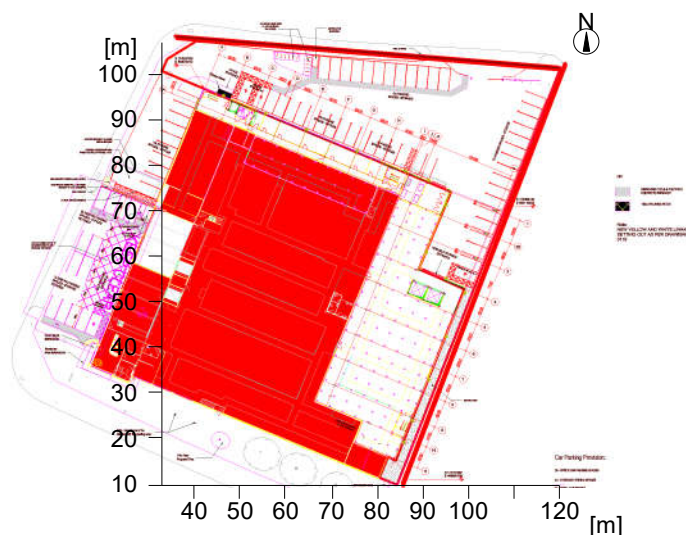
Object : P1
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2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Measuring area 1



General

Calculation algorithm used	Average indirect fraction
Height (phot centre) [m]:	2.84 m
Maintenance factor	0.80
Total luminous flux of all lamps	18200 lm
Total power	336 W
Total power per area (2013.06 m²)	0.17 W/m²

Illuminance

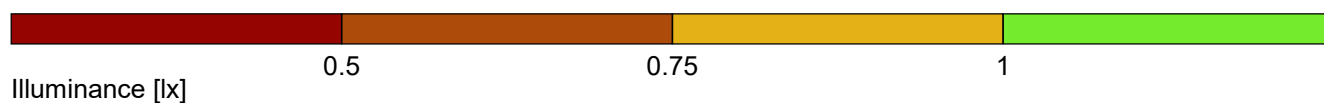
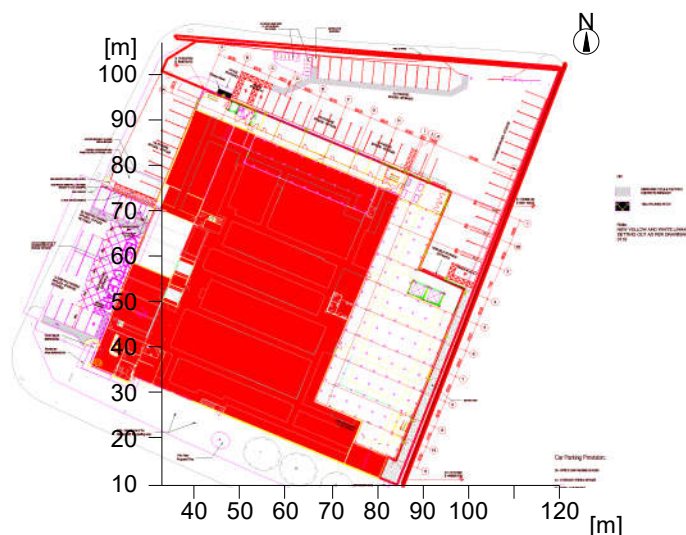
Average illuminance	Eav	0.18 lx
Minimum illuminance	Emin	0 lx
Maximum illuminance	Emax	0.77 lx
Uniformity Uo	Emin/Em	1:--- (---)
Diversity Ud	Emin/Emax	1:--- (---)

Type No. Make

1	14	Thorlux
	Order No.	: RL17578
	Luminaire name	: REALTA LED POLY COVER
	Equipment	: 1 x 18W LED 24 W / 1300 lm

2.2 Summary, Exterior 1

2.2.2 Result overview, Measuring area 2



General

Calculation algorithm used	Average indirect fraction
Height (phot centre) [m]:	2.84 m
Maintenance factor	0.80
Total luminous flux of all lamps	18200 lm
Total power	336 W
Total power per area (2013.06 m²)	0.17 W/m²

Illuminance

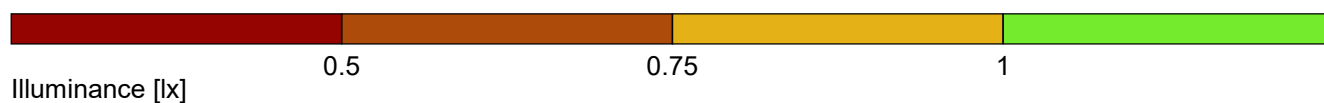
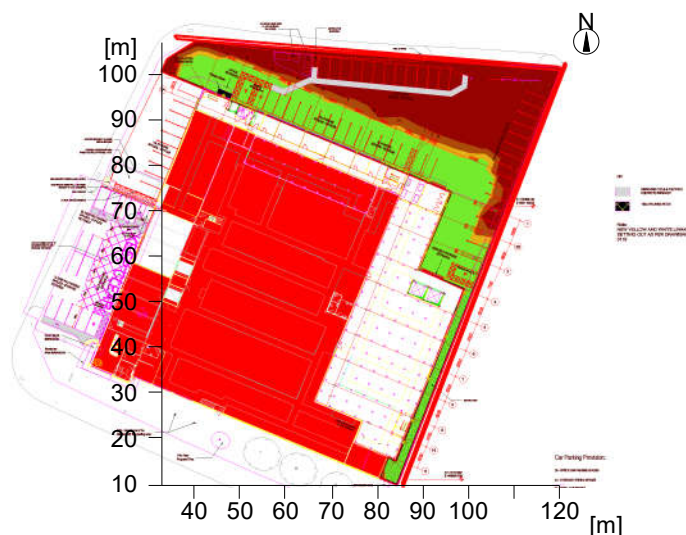
Average illuminance	Eav	1.1 lx
Minimum illuminance	Emin	0 lx
Maximum illuminance	Emax	23.8 lx
Uniformity Uo	Emin/Em	1:41.5 (0.02)
Diversity Ud	Emin/Emax	1:907 (0)

Type No. Make

1	14	Thorlux
	Order No.	: RL17578
	Luminaire name	: REALTA LED POLY COVER
	Equipment	: 1 x 18W LED 24 W / 1300 lm

2.2 Summary, Exterior 1

2.2.3 Result overview, Evaluation area 1



General

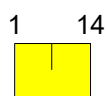
Calculation algorithm used	Average indirect fraction
Height (phot centre)	2.84 m
Maintenance factor	0.80
Total luminous flux of all lamps	18200 lm
Total power	336.0 W
Total power per area (2013.06 m²)	0.17 W/m² (3.79 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal
Em	4.4 lx
Emin	0.02 lx
Emin/Eav (Uo)	0.00
Emin/Emax (Ud)	0.00
Position	0.00 m

Type No.\Make



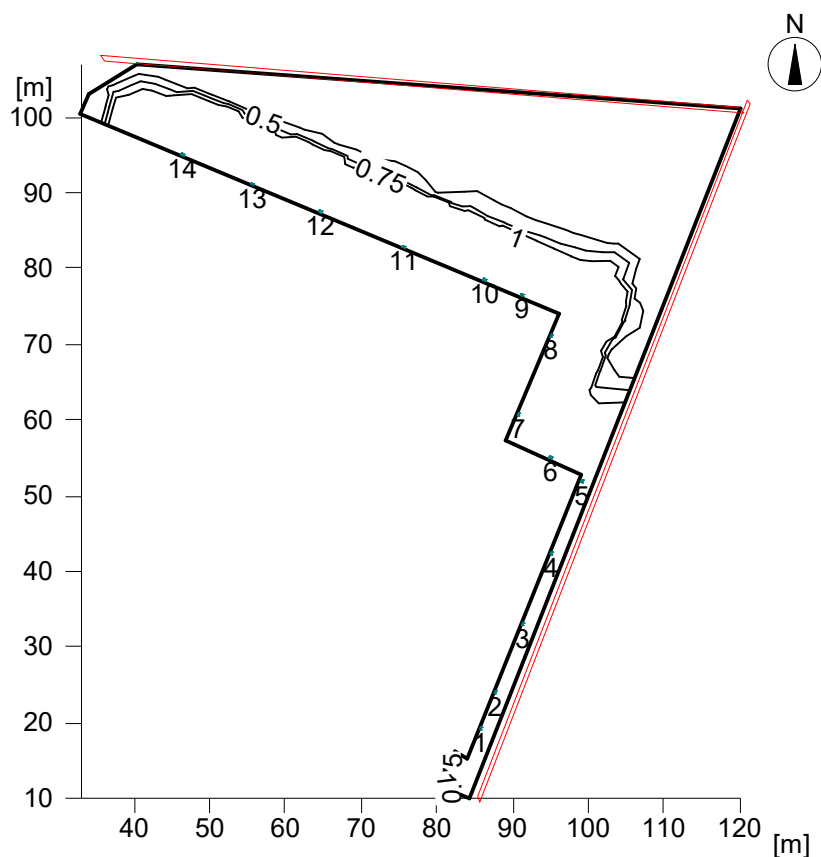
Thorlux

Order No.	: RL17578
Luminaire name	: REALTA LED POLY COVER
Equipment	: 1 x 18W LED 24 W / 1300 lm

2 Exterior 1

2.3 Calculation results, Exterior 1

2.3.1 Isolines representation, Reference plane 1.1 (E)



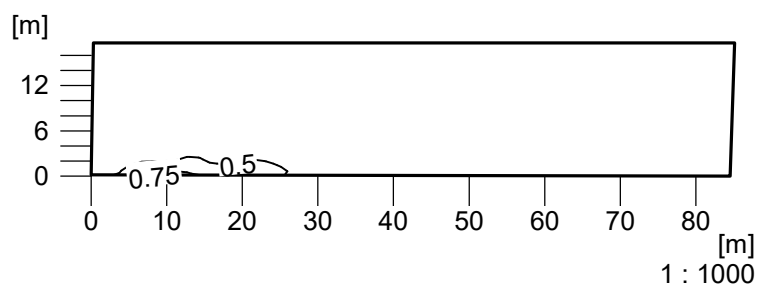
Illuminance [lx]

Height of the reference plane

Average illuminance	Eav	: 0.00 m
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 26.4 lx
Uniformity Uo	Emin/Eav	: 1 : 252.46 (0.00)
Diversity Ud	Emin/Emax	: 1 : 1514.60 (0.00)

2.3 Calculation results, Exterior 1

2.3.2 Isolines representation, Measuring area 1 (E)

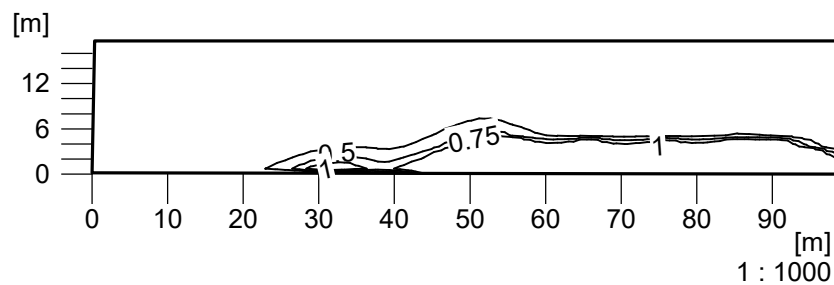


Illuminance [lx]

Average illuminance	Eav	: 0.18 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 0.77 lx
Uniformity Uo	Emin/Eav	: ---
Diversity Ud	Emin/Emax	: ---

2.3 Calculation results, Exterior 1

2.3.3 Isolines representation, Measuring area 2 (E)

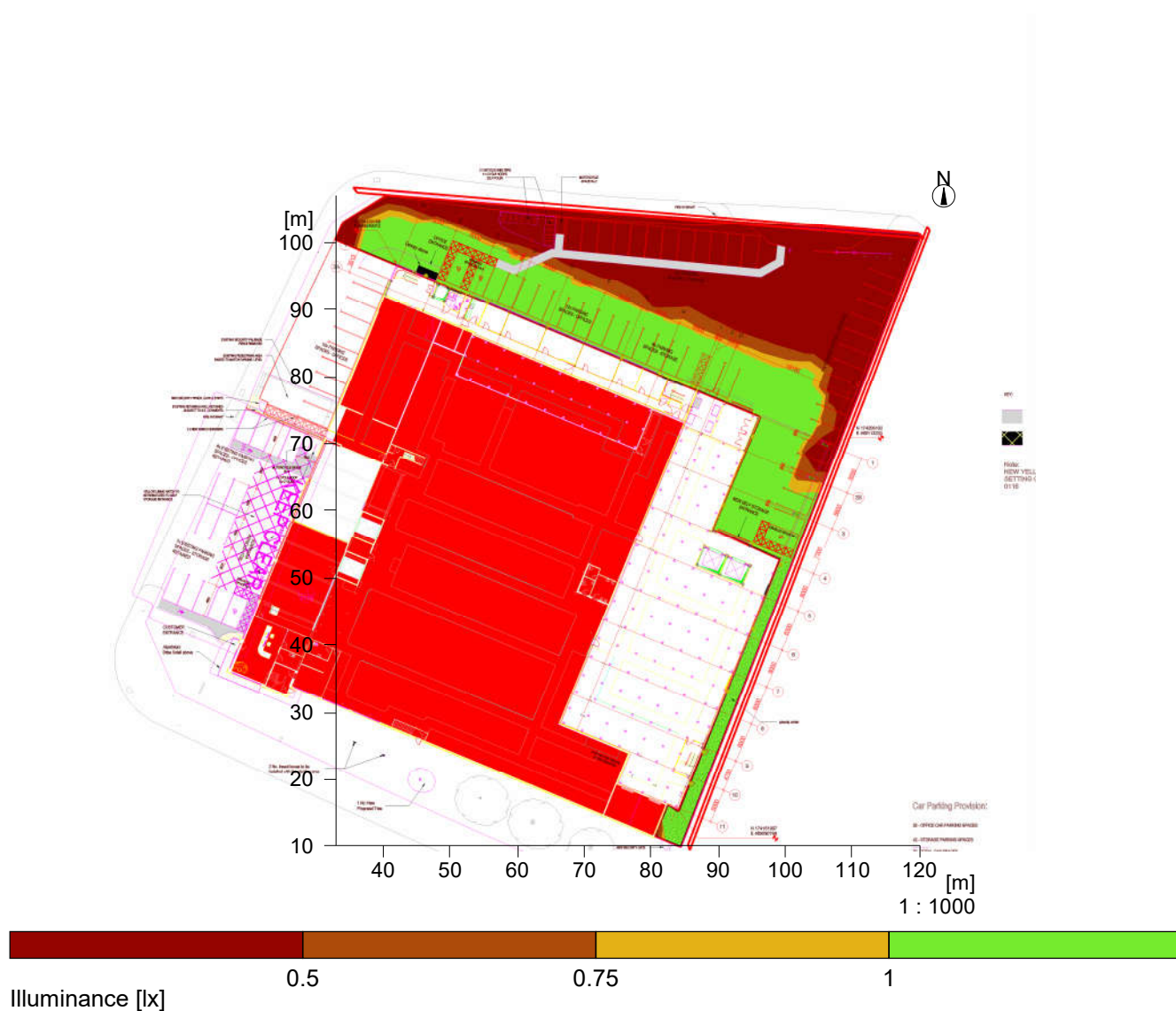


Illuminance [lx]

Average illuminance	Eav	: 1.1 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 23.8 lx
Uniformity U ₀	Emin/Eav	: 1 : 41.52 (0.02)
Diversity U _d	Emin/Emax	: 1 : 906.57 (0.00)

2.3 Calculation results, Exterior 1

2.3.4 Pseudo colours, Reference plane 1.1 (E)



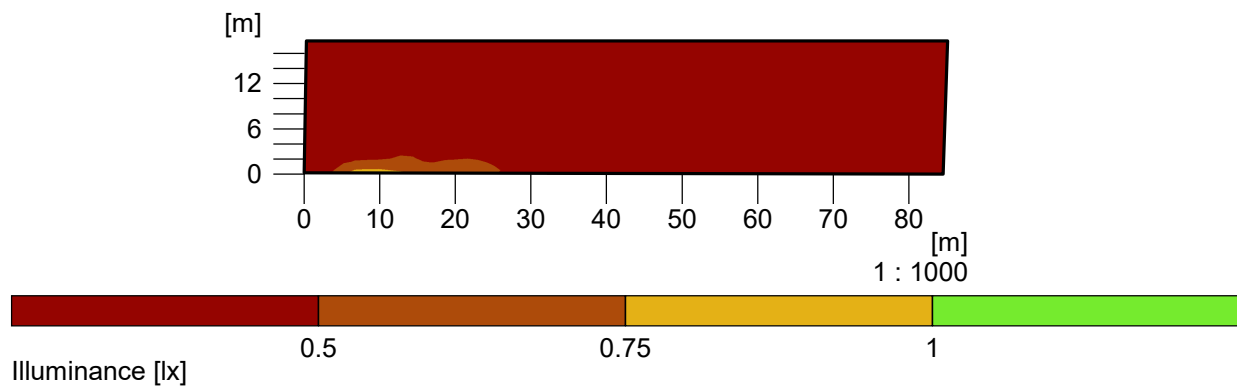
Height of the reference plane

Average illuminance
 Minimum illuminance
 Maximum illuminance
 Uniformity U_0
 Diversity U_d

: 0.00 m
 Eav : 4.4 lx
 Emin : 0 lx
 Emax : 26.4 lx
 Emin/Eav : 1 : 252.46 (0.00)
 Emin/Emax : 1 : 1514.60 (0.00)

2.3 Calculation results, Exterior 1

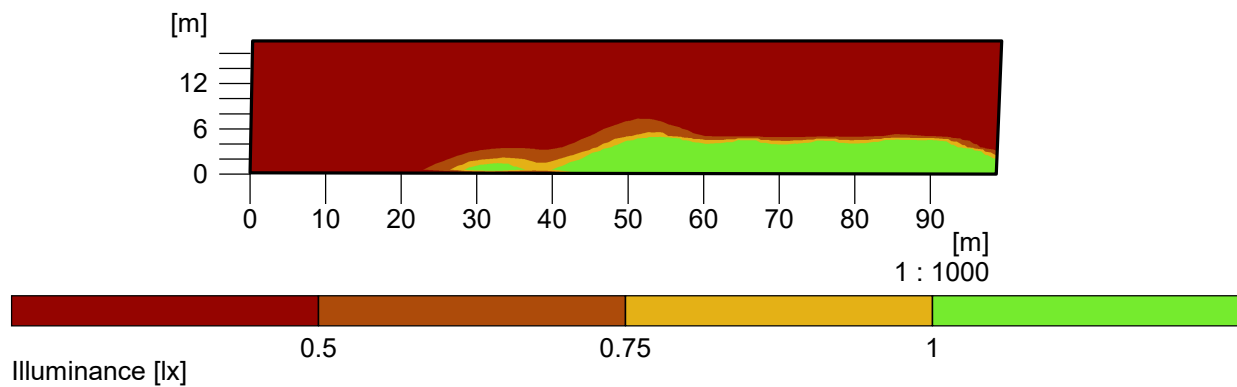
2.3.5 Pseudo colours, Measuring area 1 (E)



Average illuminance	Eav	: 0.18 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 0.77 lx
Uniformity U ₀	Emin/Eav	: ---
Diversity U _d	Emin/Emax	: ---

2.3 Calculation results, Exterior 1

2.3.6 Pseudo colours, Measuring area 2 (E)



Average illuminance	Eav	: 1.1 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 23.8 lx
Uniformity U ₀	Emin/Eav	: 1 : 41.52 (0.02)
Diversity U _d	Emin/Emax	: 1 : 906.57 (0.00)