

Exterior Lighting

Installation : Latton WTW

Project number : 3220203

Customer : Thames Water

Processed by : Adam Butterfield

Date : 21.02.2025

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 TRILUX, Jovie50-AB2L4-42-730-ETDD-CAH-26 (CLO e... ())

1.1.1 Data sheet

Manufacturer: TRILUX

Jovie50-AB2L4-42-730-ETDD-CAH-26 (CLO end value)

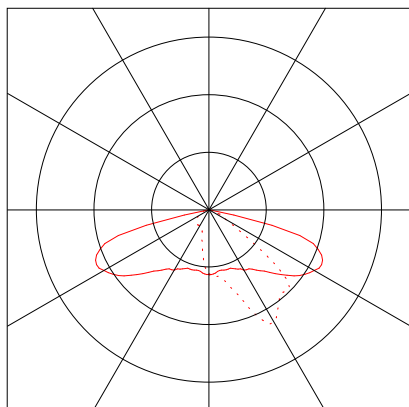
Luminaire data

Luminaire efficiency : 99.9873%
Luminaire efficacy : 119.98 lm/W
Classification : A30 ↓100.0% ↑0.0%
CIE Flux Codes : 35 72 98 100 100
Glare : G*3 / D6
Power : 35 W
Luminous flux : 4198.3 lm

Equipped with

Quantity : 1
Designation : 1 x LED
Colour : 3000K
Luminous flux : 4200 lm
Colour reproduction : 70

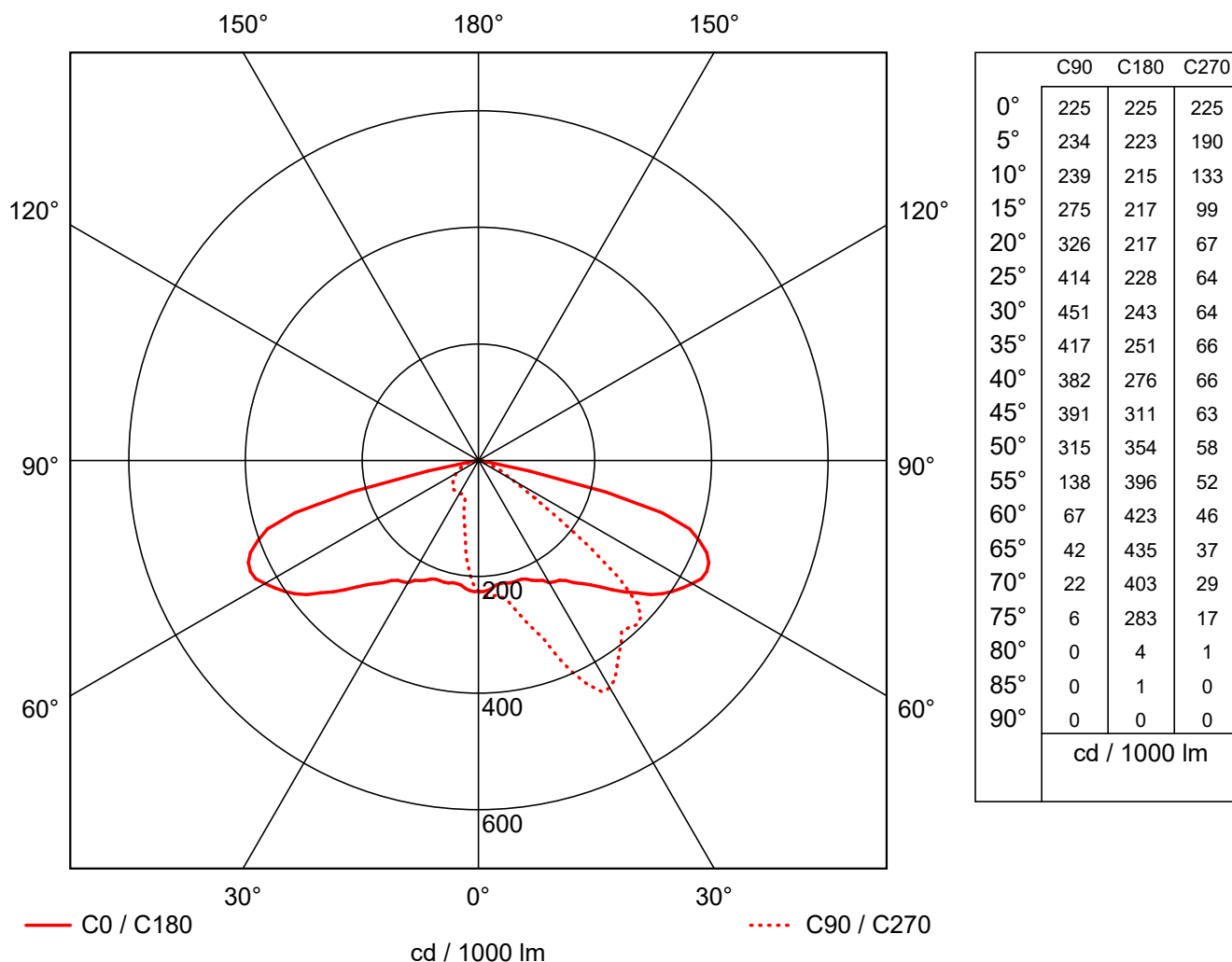
Dimensions : 613 mm x 202 mm x 84 mm



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1.1 TRILUX, Jovie50-AB2L4-42-730-ETDD-CAH-26 (CLO e... ())

1.1.2 LDC



Manufacturer : TRILUX
Order number :
Luminaire name : Jovie50-AB2L4-42-730-ETDD-CAH-26 (CLO end value)
Equipment : 1 x 1 x LED 35 W / 4200 lm
Dimensions : L 613 mm x W 202 mm x H 84 mm
File name : JOVIE50-AB2L4-42-730-ETDD-CAH-

Efficiency factor : 99.99%
Luminaire efficacy : 119.98 lm/W (A30)
Light distribution : sym. to C90-C270
Beam Angle : 147.5° C0-C180
49.5° C90
-- C270

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1 Luminaire data

1.2 TRILUX, Inveria C 110 RM4R/1200-840 ETBLE +CAS ()

1.2.1 Data sheet

Manufacturer: TRILUX

Inveria C 110 RM4R/1200-840 ETBLE +CAS

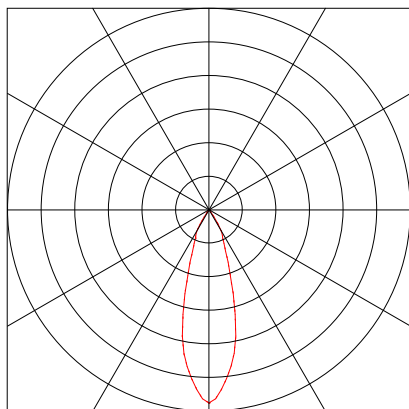
Luminaire data

Luminaire efficiency : 99.9332%
Luminaire efficacy : 104.28 lm/W
Classification : A80 ↓100.0% ↑0.0%
CIE Flux Codes : 96 99 100 100 100
UGR 4H 8H : 16.0 / 16.0
Power : 11.5 W
Luminous flux : 1200 lm

Equipped with

Quantity : 1
Designation : 1 x LED
Colour : 4000K
Luminous flux : 1200 lm
Colour reproduction : 80

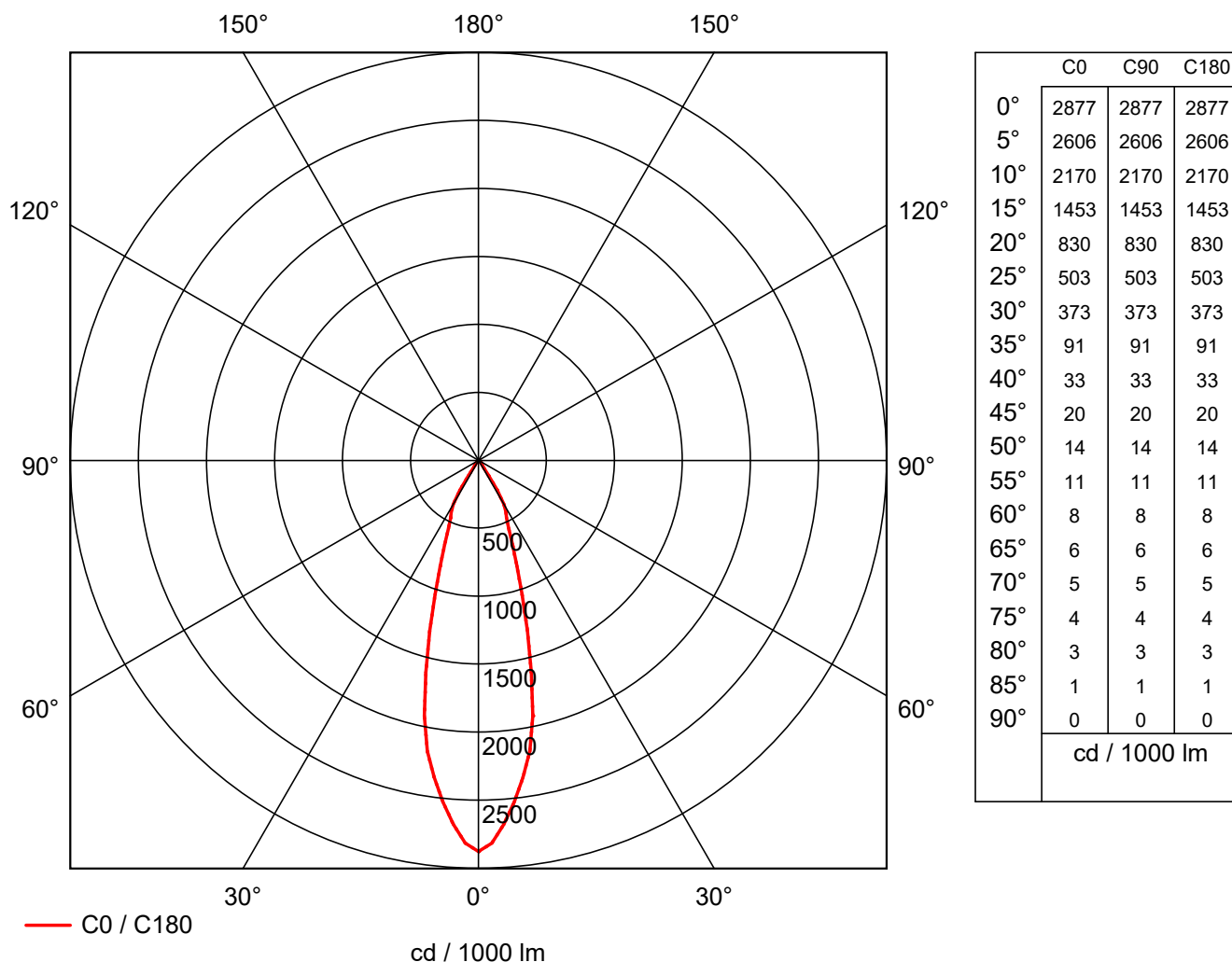
Dimensions : Ø113 mm x 83 mm



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1.2 TRILUX, Inveria C 110 RM4R/1200-840 ETBLE +CAS ()

1.2.2 LDC



Manufacturer : TRILUX
Order number :
Luminaire name : Inveria C 110 RM4R/1200-840
ETBLE +CAS
Equipment : 1 x 1 x LED 11.5 W / 1200 lm
Dimensions : D 113 mm x H 83 mm
File name : INVERIA_C_110_RM4R_1200-840_£

Efficiency factor : 99.93%
Luminaire efficacy : 104.28 lm/W (A80)
Light distribution : rotationally symmetric
Beam Angle : 30.2° C0-C180

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1 Luminaire data

1.3 TRILUX, Osido2QW-SB1L-10-830-ETDD-GS26UEI ()

1.3.1 Data sheet

Manufacturer: TRILUX

Osido2QW-SB1L-10-830-ETDD-GS26UEI

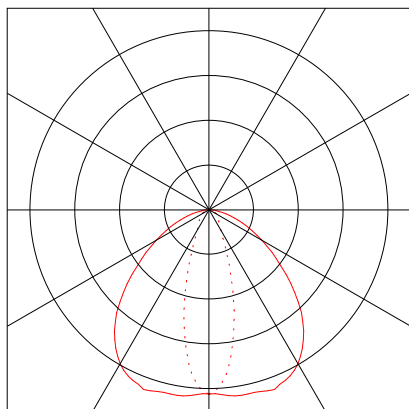
Luminaire data

Luminaire efficiency : 99.9602%
Luminaire efficacy : 105.51 lm/W
Classification : A50 ↓100.0% ↑0.0%
CIE Flux Codes : 65 89 98 100 100
UGR 4H 8H : 26.0 / 15.7
Power : 9 W
Luminous flux : 949.9 lm

Equipped with

Quantity : 1
Designation : 1 x LED
Colour : 3000K
Luminous flux : 950 lm
Colour reproduction : 80

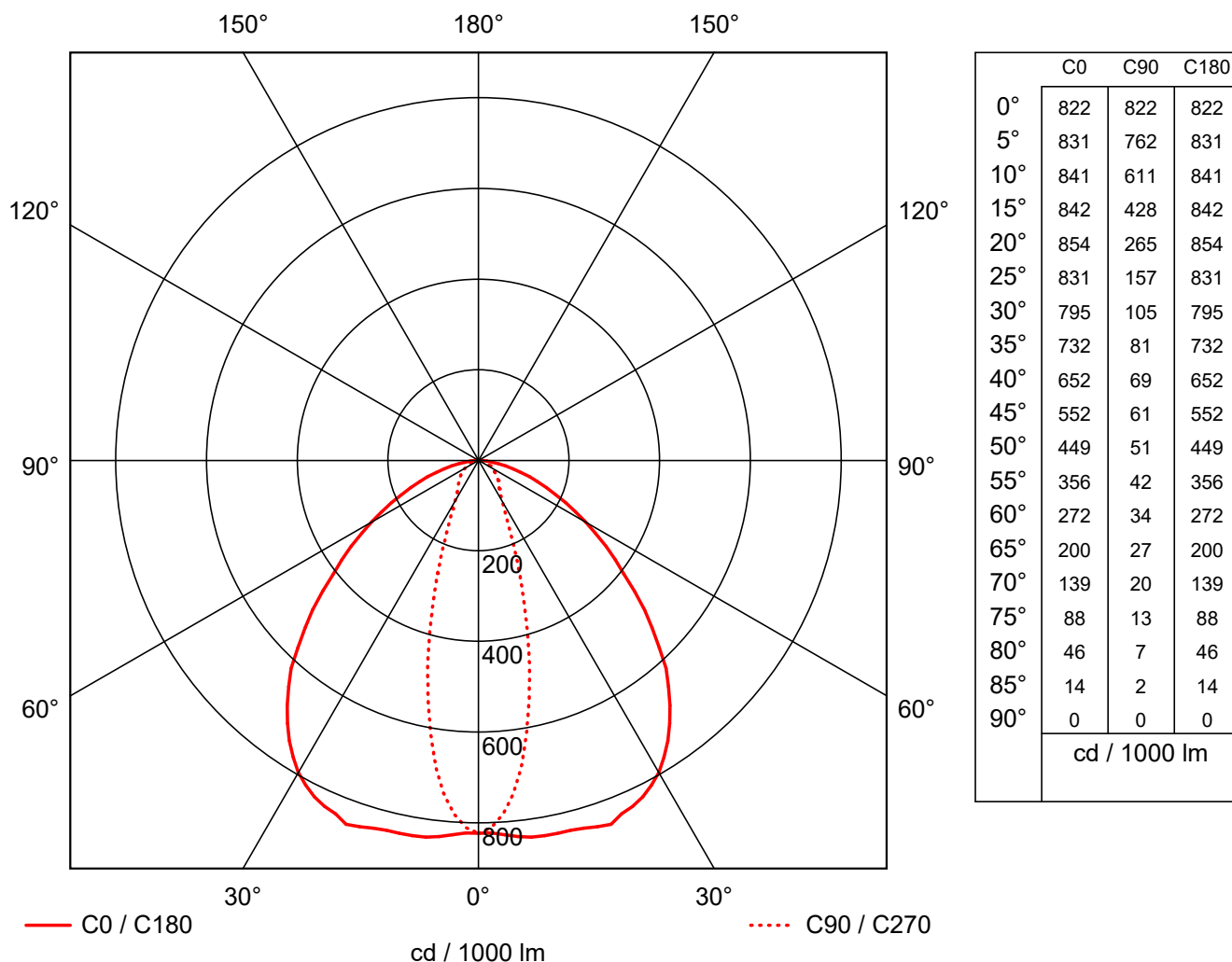
Dimensions : 154 mm x 260 mm x 117 mm



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1.3 TRILUX, Osido2QW-SB1L-10-830-ETDD-GS26UEI ()

1.3.2 LDC



Manufacturer	: TRILUX	Efficiency factor	: 99.96%
Order number	:	Luminaire efficacy	: 105.51 lm/W (A50)
Luminaire name	:	Light distribution	: sym. to C0-C180 / C90-C270
	Osido2QW-SB1L-10-830-ETDD-GS26	Beam Angle	: 102.1° C0-C180
Equipment	: 1 x 1 x LED 9 W / 950 lm		: 30.1° C90-C270
Dimensions	: L 154 mm x W 260 mm x H 117 mm		
File name	: OSIDO2QW-SB1L-10-830-ETDD-GS		

2 Exterior 1

2.1 Description, Exterior 1

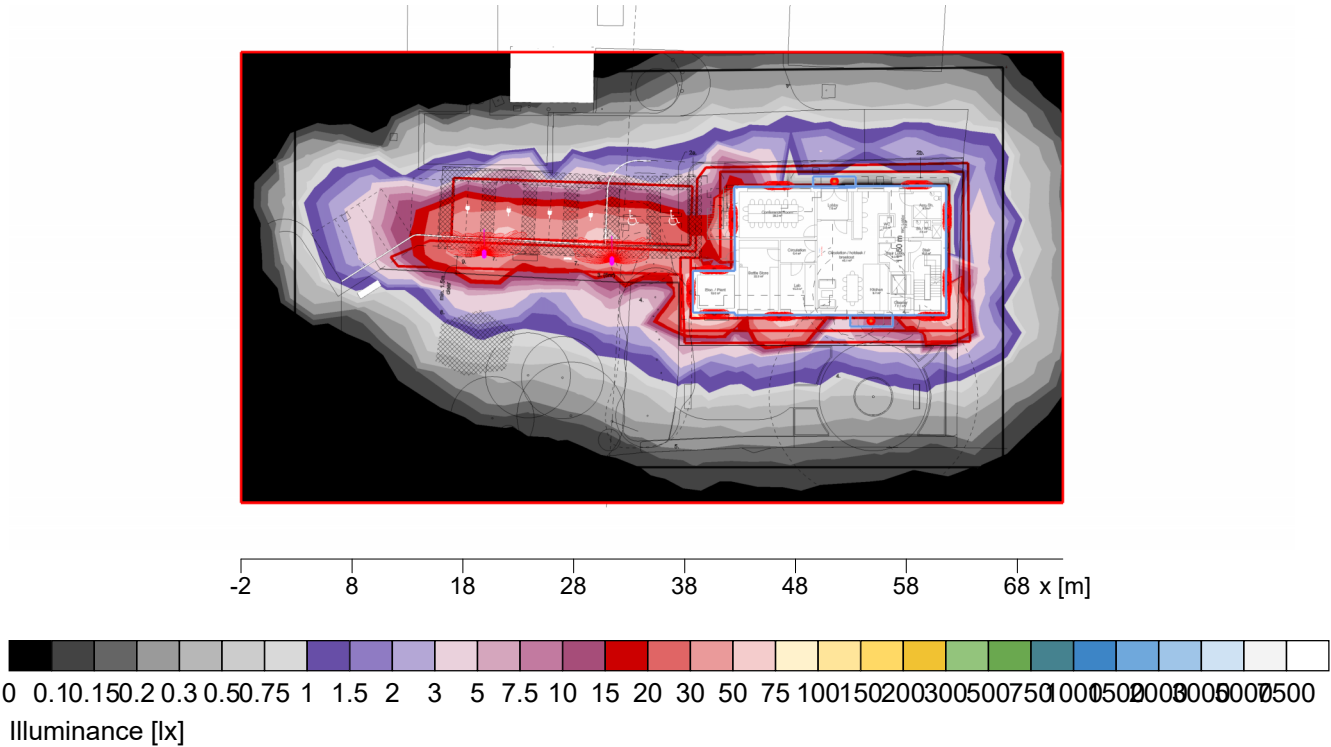
2.1.1 Floor plan



2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Overall Site



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux	20300 lm
Total power	183 W
Total power per area (2278.74 m²)	0.08 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	4 lx
Minimum illuminance	E_{min}	0 lx
Maximum illuminance	E_{max}	44.7 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:798 (0)
Diversity U_d	E_{min}/E_{max}	1:8920 (0)

Type No.Make

2 2 x		TRILUX
		Order No. :
		Luminaire name : Jovie50-AB2L4-42-730-ETDD-CAH-26 (CLO end value)
		Equipment : 1 x 1 x LED 35 W / 4200 lm
3 2 x		Order No. :
		Luminaire name : Inveria C 110 RM4R/1200-840 ETBLE +CAS
		Equipment : 1 x 1 x LED 11.5 W / 1200 lm

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2 Exterior 1

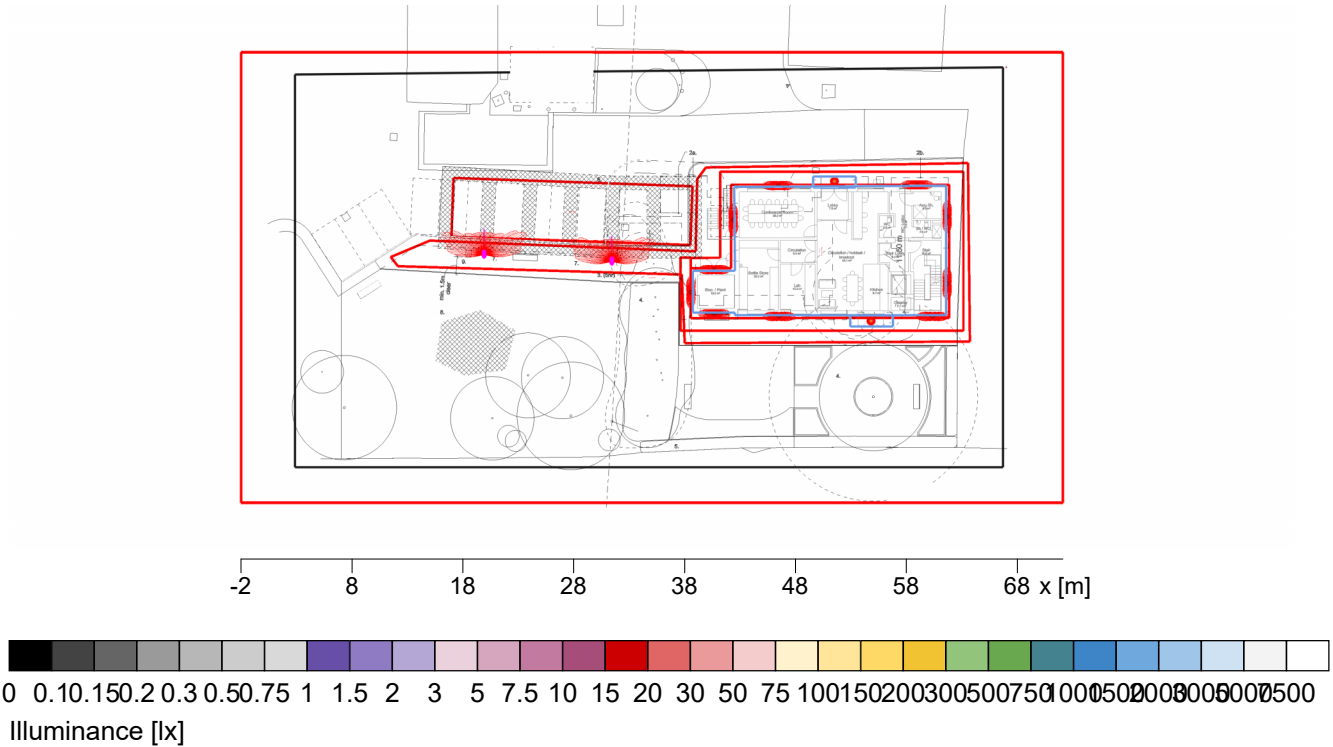
2.2 Summary, Exterior 1

2.2.1 Result overview, Overall Site

5	10 x	Order No.	:	
		Luminaire name	:	Osido2QW-SB1L-10-830-ETDD-GS26UEI
		Equipment	:	1 x 1 x LED 9 W / 950 lm

2.2 Summary, Exterior 1

2.2.2 Result overview, Above Building - Light Spill Upward



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux	20300 lm
Total power	183 W
Total power per area (2278.74 m²)	0.08 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	0.73 lx
Minimum illuminance	E_{min}	0.05 lx
Maximum illuminance	E_{max}	2.74 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:14.5 (0.07)
Diversity U_d	E_{min}/E_{max}	1:54.4 (0.02)

Type No. Make

2 2 x		TRILUX
		Order No. :
		Luminaire name : Jovie50-AB2L4-42-730-ETDD-CAH-26 (CLO end value)
		Equipment : 1 x 1 x LED 35 W / 4200 lm
3 2 x		
		Order No. :
		Luminaire name : Inveria C 110 RM4R/1200-840 ETBLE +CAS
		Equipment : 1 x 1 x LED 11.5 W / 1200 lm
5 10 x		
		Order No. :
		Luminaire name : Osido2QW-SB1L-10-830-ETDD-GS26UEI
		Equipment : 1 x 1 x LED 9 W / 950 lm