Eliza Yard, Block C

EYJW-AME-BC-XX-TA-E-630002

External Lighting Calculations

Rev. P02

Status - S3

Ref	Date	Description	By
P01	21.08.2025	Preliminary Issue	B.C.
P02	03.09.2025	Revised to SISK comments	B.C.

LDL LIGHTING

Eliza Yard - External Lighting

LIGHTING CALCULATIONS

Eliza Yard - External Lighting

Installation :

Project number :
Customer : Ameon
Processed by : GW
Date : 03.09.2025

Project description:

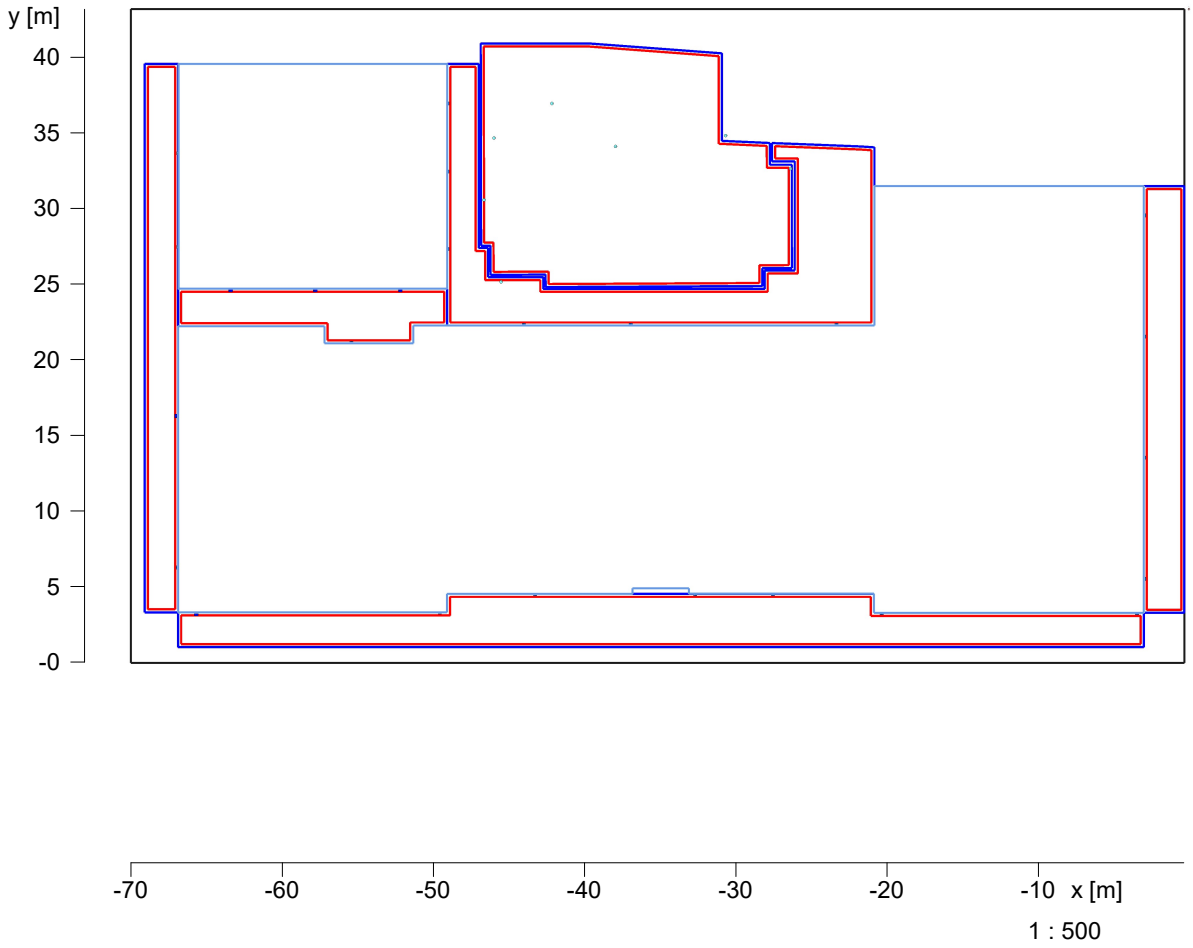
NOTE: Luminaire locations are based on the lighting layouts provided.

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.

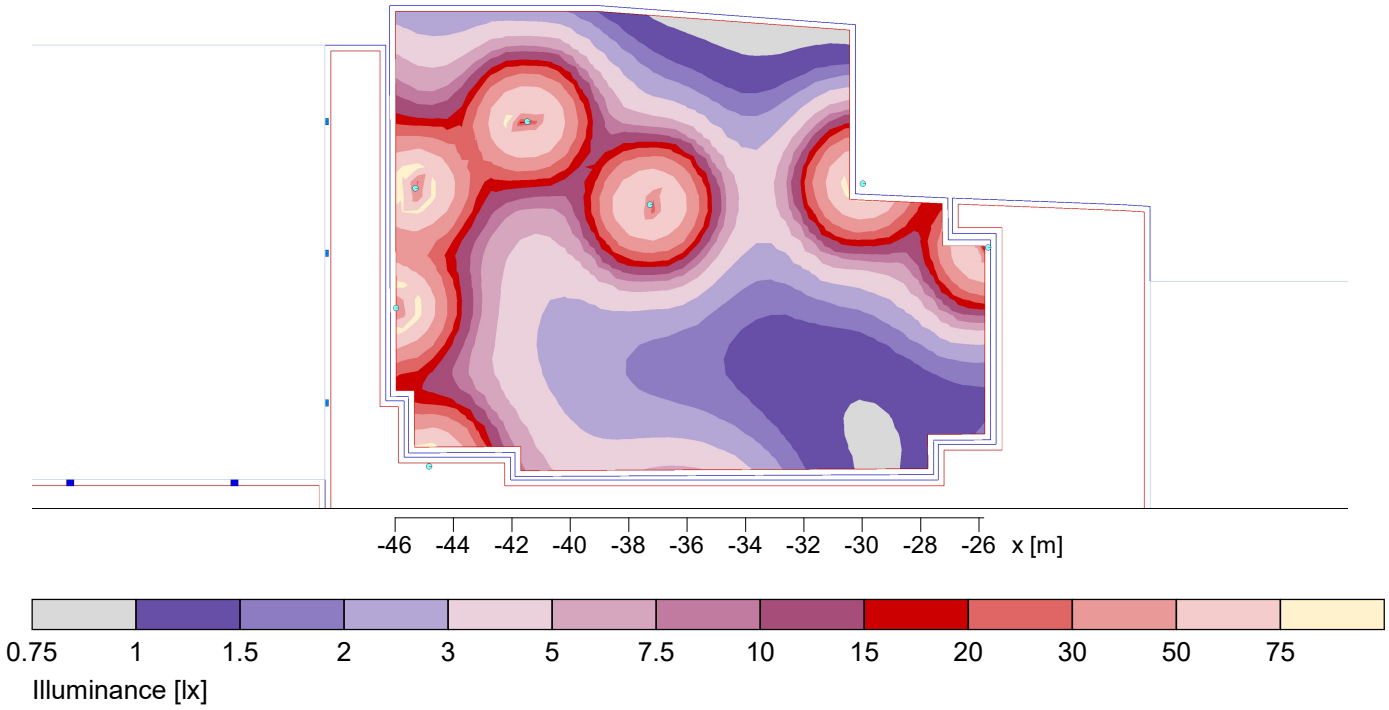
Description, EY - External

.2 Floor plan



Summary, EY - External

.3 Result overview, Central Area (L1 Only)



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	4860.48 lm
Total power	50.0 W
Total power per area (287.86 m²)	0.17 W/m² (1.37 W/m²/100lx)

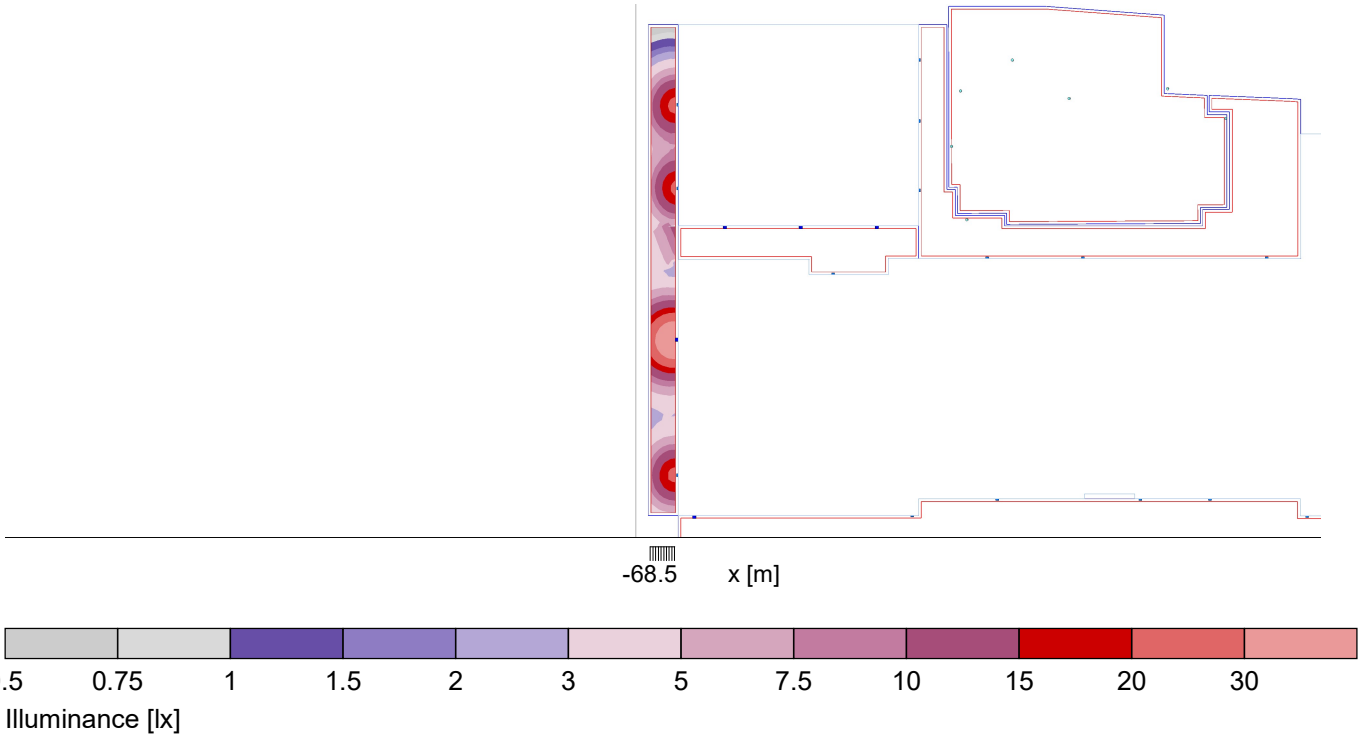
Central Area (L1 Only)	**Central Area (L1 Only)** Horizontal
$\bar{E}_m$	13 lx
E_{min}	0.8 lx
$E_{min}/\bar{E}_m$ (U_o)	0.06
E_{min}/E_{max} (U_d)	0.01
Position	0.00 m

Type No.\Make

	LDL	
3	5 x	Order No. : SHE/10/949/4
		Luminaire name : Shelby 1000mm 949lm 10W 730
		Equipment : 1 x LED 10 W / 949 lm

Summary, EY - External

.4 Result overview, Walkway



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total lamp luminous flux	4178.00 lm
Luminaire luminous flux	4012.04 lm
Total power	46.3 W
Total power per area (79.89 m²)	0.58 W/m² (5.37 W/m²/100lx)

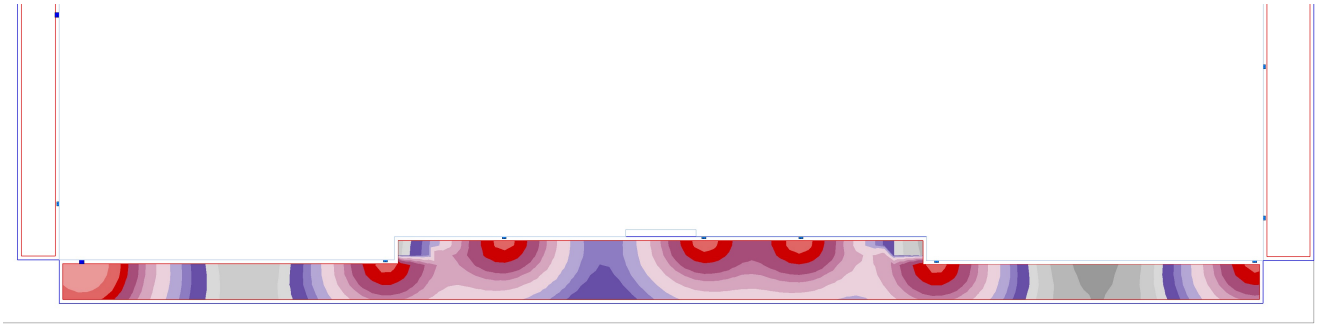
Walkway	**Walkway** Horizontal
$\bar{E}_m$	11 lx
E_{min}	0.6 lx
$E_{min}/\bar{E}_m$ (U_o)	0.06
E_{min}/E_{max} (U_d)	0.01
Position	0.00 m

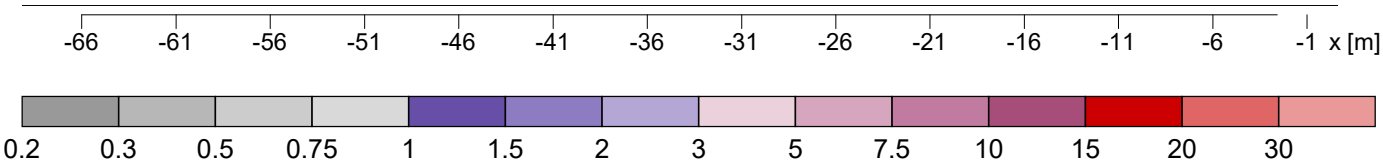
Type No.\Make

		LDL	
1	1 x	Order No.	: CAM/M/1364/3
		Luminaire name	: Cameron Medium 1364lm 10W 830
		Equipment	: 1 x LED 10.3 W / 1364 lm
2	3 x	Order No.	: AVA/938/3
		Luminaire name	: Ava Dir/in-dir 938lm 12W 830
		Equipment	: 1 x LED 12 W / 938 lm

Summary, EY - External

.5 Result overview, Walkway





General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total lamp luminous flux	6992.00 lm
Luminaire luminous flux	6662.25 lm
Total power	82.3 W
Total power per area (180.54 m²)	0.46 W/m² (6.30 W/m²/100lx)

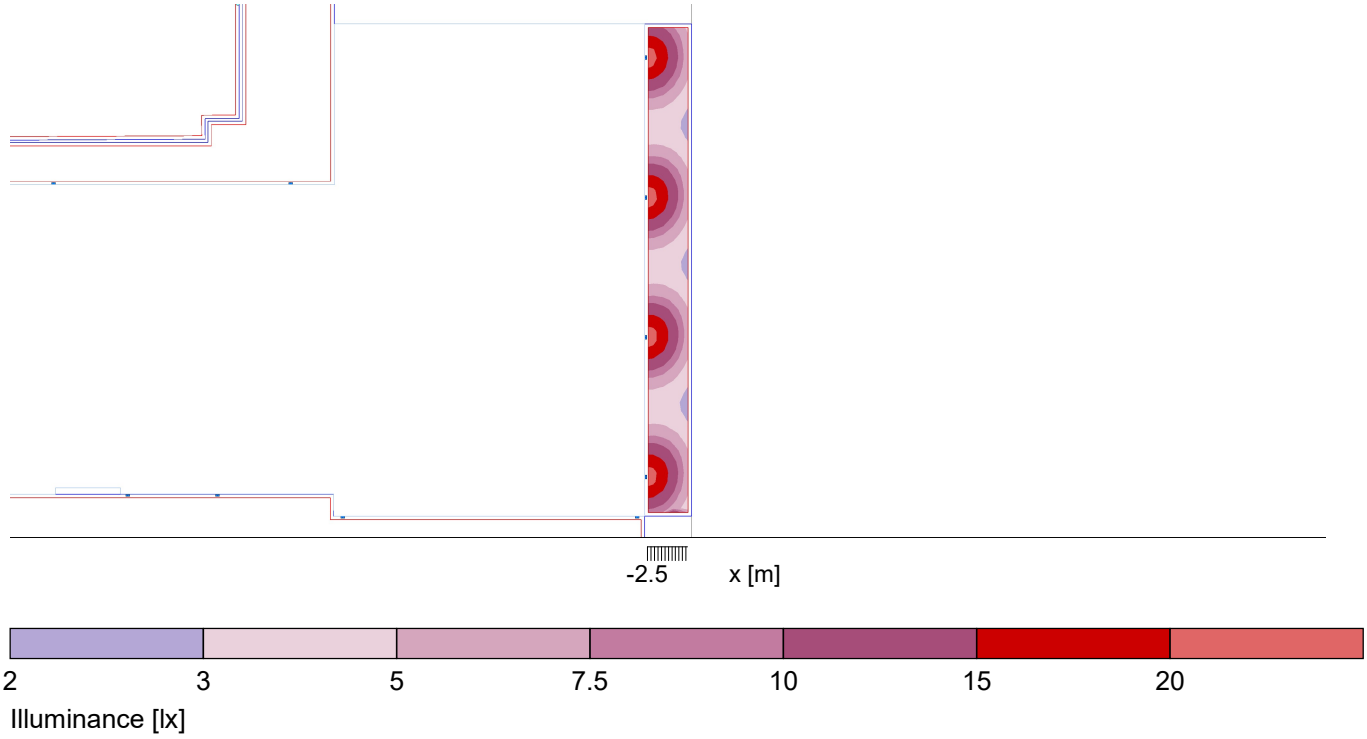
Walkway	**Walkway** Horizontal
$\bar{E}_m$	7 lx
E_{min}	0.2 lx
$E_{min}/\bar{E}_m$ (U_o)	0.03
E_{min}/E_{max} (U_d)	0.01
Position	0.00 m

Type No.\Make

		LDL	
1	1 x	Order No.	: CAM/M/1364/3
		Luminaire name	: Cameron Medium 1364lm 10W 830
		Equipment	: 1 x LED 10.3 W / 1364 lm
2	6 x	Order No.	: AVA/938/3
		Luminaire name	: Ava Dir/in-dir 938lm 12W 830
		Equipment	: 1 x LED 12 W / 938 lm

Summary, EY - External

.6 Result overview, Walkway



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total lamp luminous flux	3752.00 lm
Luminaire luminous flux	3533.61 lm
Total power	48.0 W
Total power per area (75.64 m²)	0.63 W/m² (7.29 W/m²/100lx)

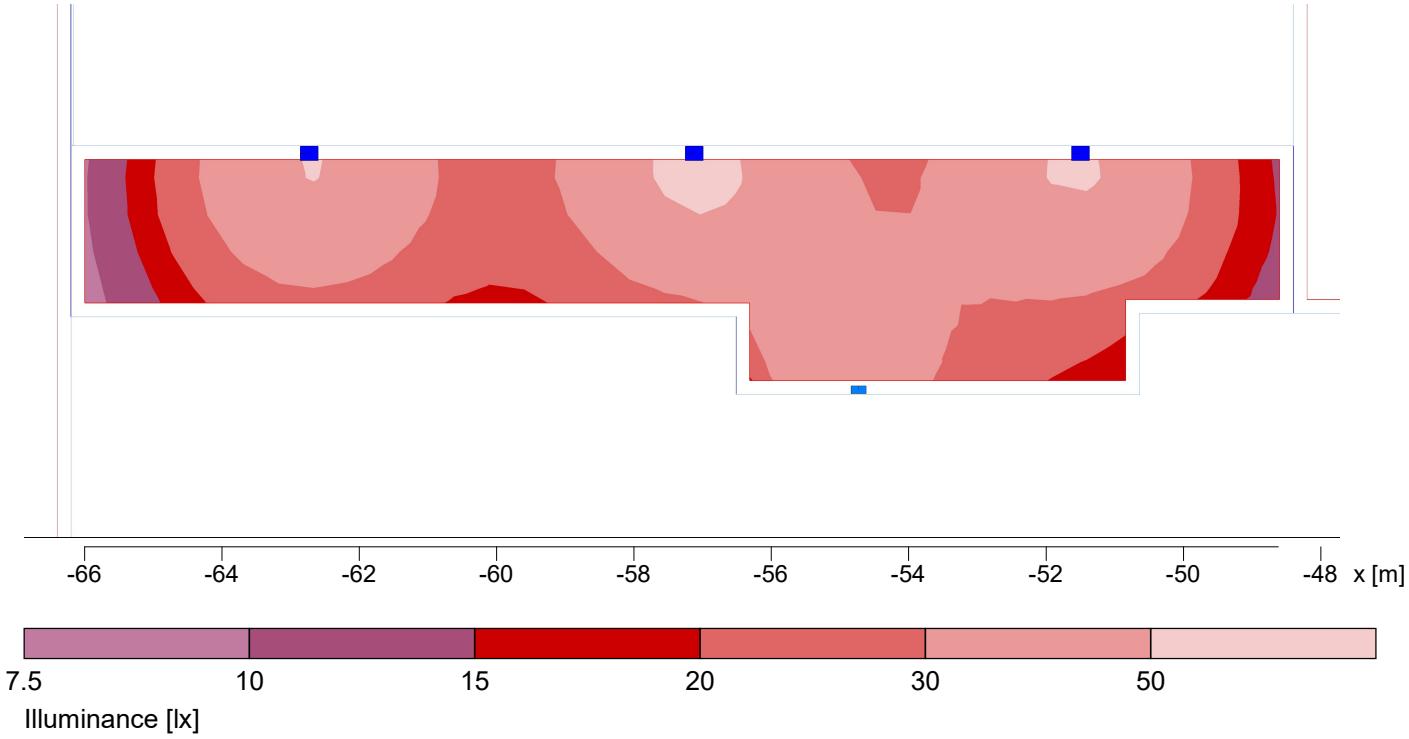
Walkway	**Walkway**
	Horizontal
$\bar{E}_m$	9 lx
E_{min}	3 lx
$E_{min}/\bar{E}_m$ (U_o)	0.33
E_{min}/E_{max} (U_d)	0.13
Position	0.00 m

Type No.\Make

	LDL	
2 4 x	Order No.	: AVA/938/3
	Luminaire name	: Ava Dir/in-dir 938lm 12W 830
	Equipment	: 1 x LED 12 W / 938 lm

Summary, EY - External

.7 Result overview, Walkway



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total lamp luminous flux	5030.00 lm
Luminaire luminous flux	4968.91 lm
Total power	42.9 W
Total power per area (50.65 m²)	0.85 W/m² (2.68 W/m²/100lx)

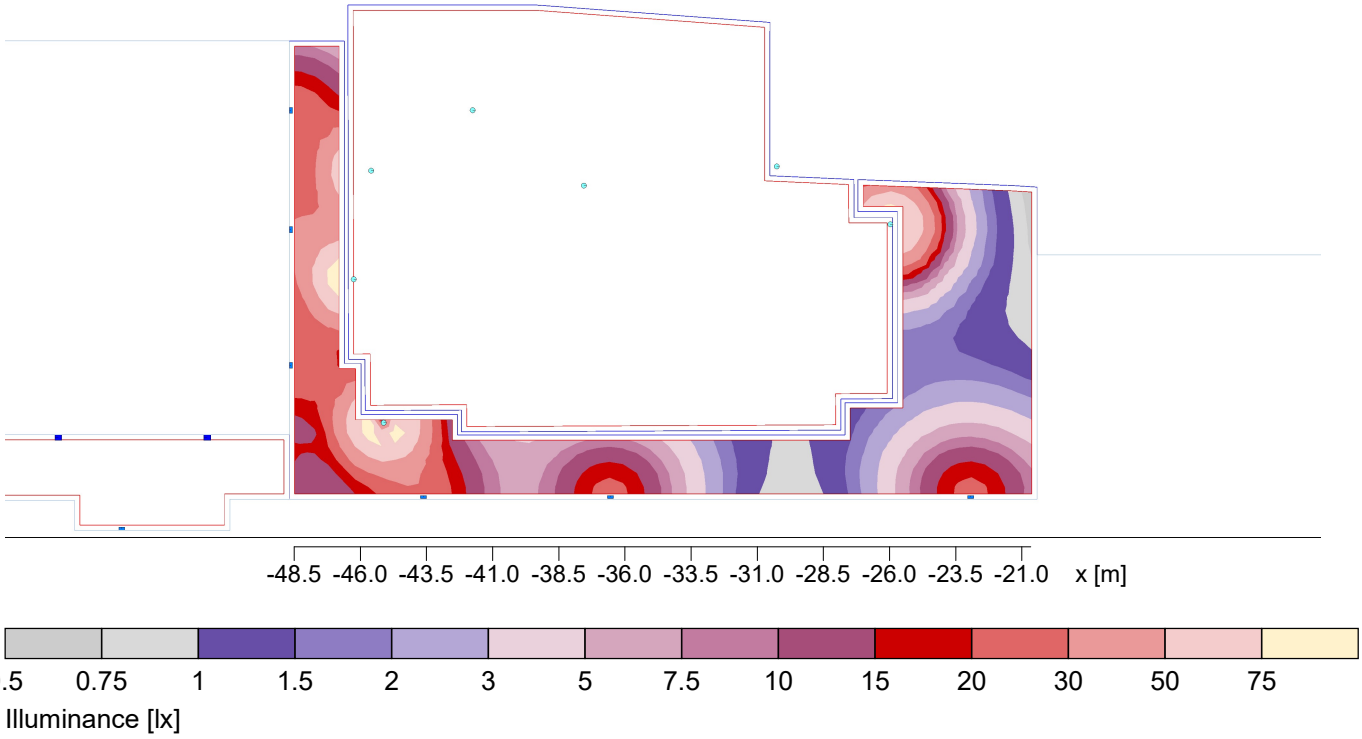
Walkway	**Walkway**
	Horizontal
$\bar{E}_m$	32 lx
E_{min}	10 lx
$E_{min}/\bar{E}_m$ (U_o)	0.32
E_{min}/E_{max} (U_d)	0.18
Position	0.00 m

Type No.\Make

		LDL	
1	3 x	Order No.	: CAM/M/1364/3
		Luminaire name	: Cameron Medium 1364lm 10W 830
		Equipment	: 1 x LED 10.3 W / 1364 lm
2	1 x	Order No.	: AVA/938/3
		Luminaire name	: Ava Dir/in-dir 938lm 12W 830
		Equipment	: 1 x LED 12 W / 938 lm

Summary, EY - External

.8 Result overview, Walkway



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total lamp luminous flux	6577.00 lm
Luminaire luminous flux	6272.51 lm
Total power	82.0 W
Total power per area (157.78 m²)	0.52 W/m² (3.59 W/m²/100lx)

Walkway	**Walkway** Horizontal
$\bar{E}_m$	14 lx
E_{min}	0.7 lx
$E_{min}/\bar{E}_m$ (U_o)	0.05
E_{min}/E_{max} (U_d)	0.01
Position	0.00 m

Type No.\Make

		LDL	
2	6 x	Order No.	: AVA/938/3
		Luminaire name	: Ava Dir/in-dir 938lm 12W 830
		Equipment	: 1 x LED 12 W / 938 lm
3	1 x	Order No.	: SHE/10/949/4
		Luminaire name	: Shelby 1000mm 949lm 10W 730
		Equipment	: 1 x LED 10 W / 949 lm