

Islington Wharf, Phase 4

IW4-AME-XX-XX-CA-E-63-0001

External Lighting Calculations

Rev. C02



CARBONCONSULTANTS

Object :
Installation :
Project number : IW4
Date : 31.05.2022

RELUX®

Exterior 1

Description, Exterior 1

Floor plan



-please put your own address here-

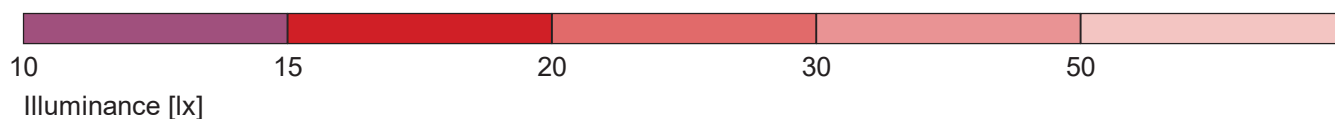
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RELUX®

Exterior 1

Summary, Exterior 1

Result overview, Evaluation area 1



General

Calculation algorithm used
Maintenance factor

Average indirect fraction
0.80

Total luminous flux of all lamps
Total power
Total power per area (590.19 m²)

45782.00 lm
450.3 W
0.76 W/m² (2.57 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
Em 29.7 lx
Emin 10 lx
Emin/Em (Uo) 0.34
Emin/Emax (Ud) 0.15
Position 0.00 m

Type No.\Make

ANSELL

3	7	Order No.	: AONIXLED/2
		Luminaire name	: FLOODLIGHTING - Onix LED Street Light
		Equipment	: 1 x LED 39.9 W / 3936 lm

5	8	Order No.	: AVILED/CCT/GR/M3-WW+Solid_Eyelid
		Luminaire name	: AMENITY - Vision 3 LED CCT
		Equipment	: 1 x LED single 830 16 W / 1875 lm

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Exterior 1

Summary, Exterior 1

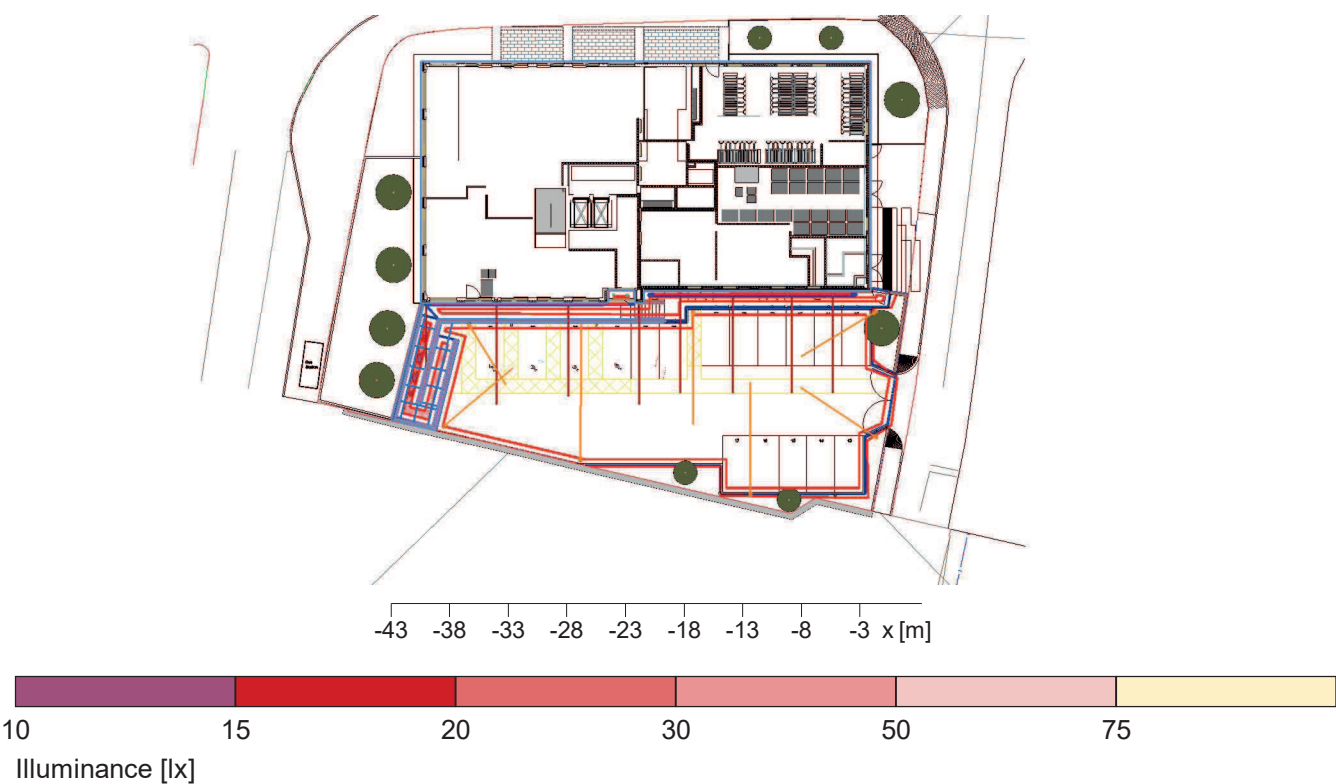
Result overview, Evaluation area 1

10	12	Order No.	: ALIBLED/WHI
		Luminaire name	: AMENITY - Libretto LED Bricklight
		Equipment	: 1 x LED 2 W / 190 lm

7	2	Whitecroft Lighting
		Order No. : CN5003KFLFW
		Luminaire name : CONCERT S
		Equipment : 1 x LED 9.5 W / 475 lm

Summary, Exterior 1

Result overview, External Ramp



General

Calculation algorithm used

Maintenance factor

Average indirect fraction

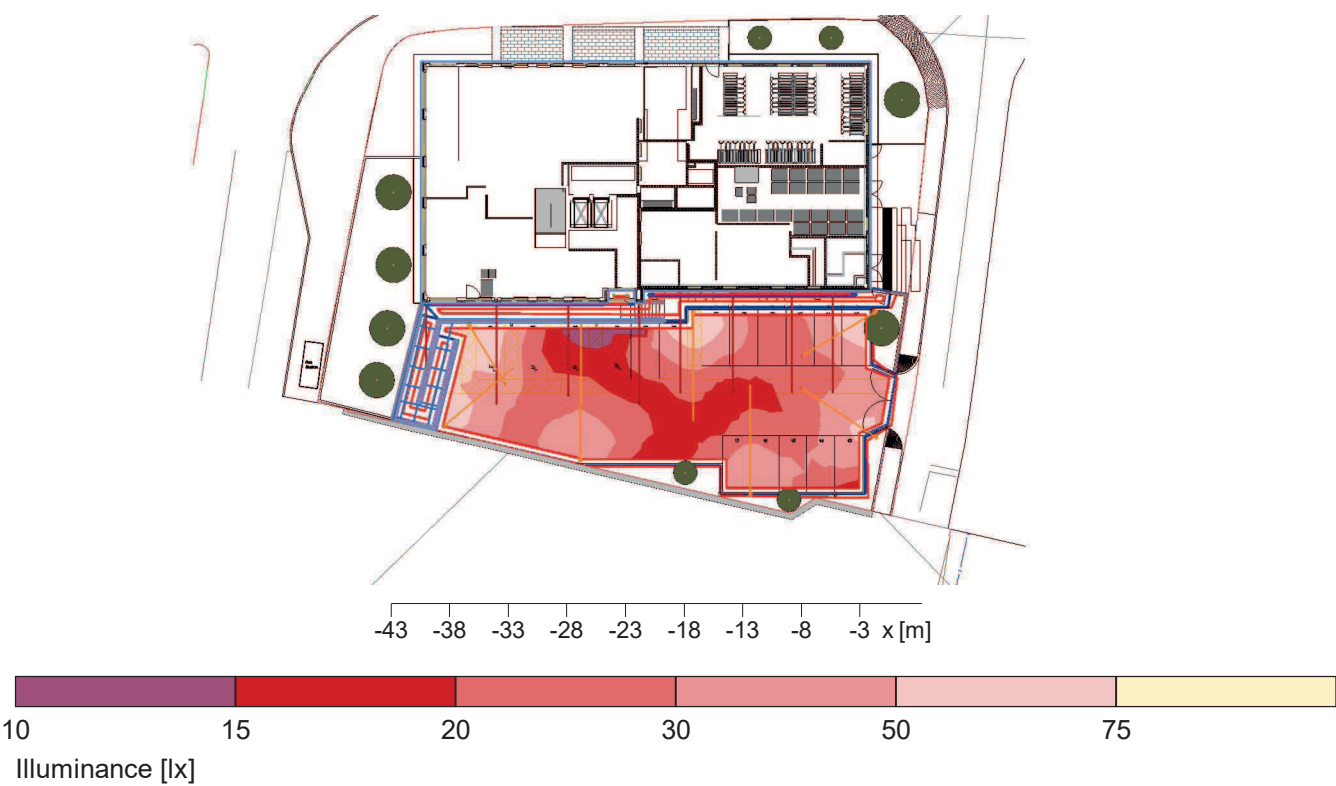
0.80

External Ramp		Reference plane 2.1	
		Horizontal	
Em		38.7 lx	
Emin		12.7 lx	
Emin/Em (Uo)		0.33	
Emin/Emax (Ud)		0.13	
Position		0.10 m	
Major surfaces		Em	Uo
M 2.1 (Ceiling)		5.1 lx	0.01

Type No.\Make

Summary, Exterior 1

Result overview, Car Park



General

Calculation algorithm used

Maintenance factor

Average indirect fraction

0.80

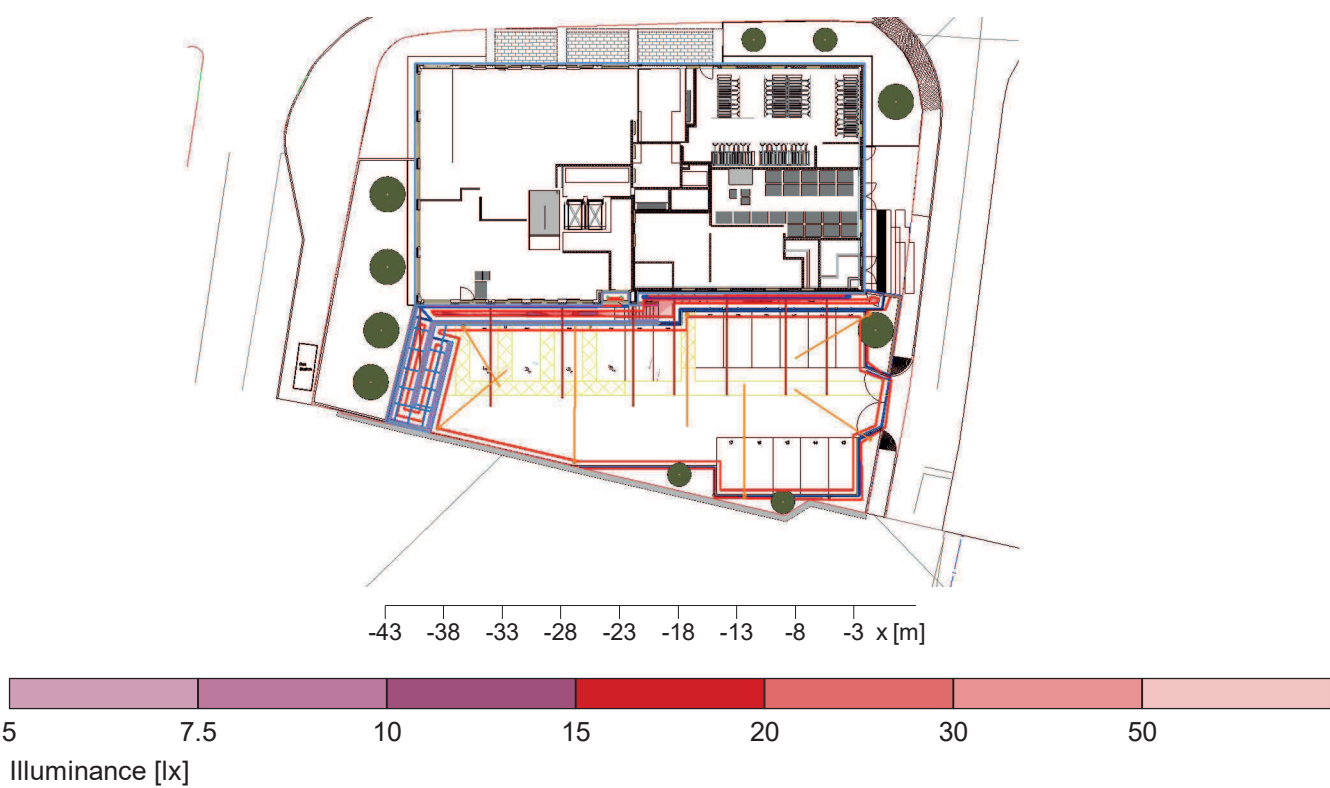
Car Park	Reference plane 3.1
	Horizontal
Em	29.7 lx
Emin	12 lx
Emin/Em (Uo)	0.40
Emin/Emax (Ud)	0.13
Position	0.20 m

Major surfaces	Em	Uo
M 3.1 (Ceiling)	0 lx	---

Type No.\Make

Summary, Exterior 1

Result overview, Pedestrian Walkway



General

Calculation algorithm used
Maintenance factor

Average indirect fraction
0.80

Pedestrian Walkway

Reference plane 4.1

Horizontal
Em 33 lx
Emin 6.6 lx
Emin/Em (Uo) 0.20
Emin/Emax (Ud) 0.10
Position 0.10 m

Major surfaces

M 4.1 (Ceiling)

Em

5 lx

Uo

0.02

Type No.\Make

Object :
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Summary, Exterior 1

Result overview, level 01 apartment windows

General

Calculation algorithm used	Average indirect fraction
Position	3.00 m
Maintenance factor	0.80

Major surfaces

	Em	Uo
M 5.1 (Wall)	3.42 lx	0.53

Type No.\Make

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Summary, Exterior 1

Result overview, level 01 apartment windows

General

Calculation algorithm used	Average indirect fraction
Position	3.00 m
Maintenance factor	0.80

Major surfaces	Em	Uo
M 6.1 (Wall)	2.45 lx	0.69

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Summary, Exterior 1

Result overview, Secondary Entrance

General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80

Major surfaces	Em	Uo
M 7.2 (Ceiling)	20 lx	0.47

Type No.\Make