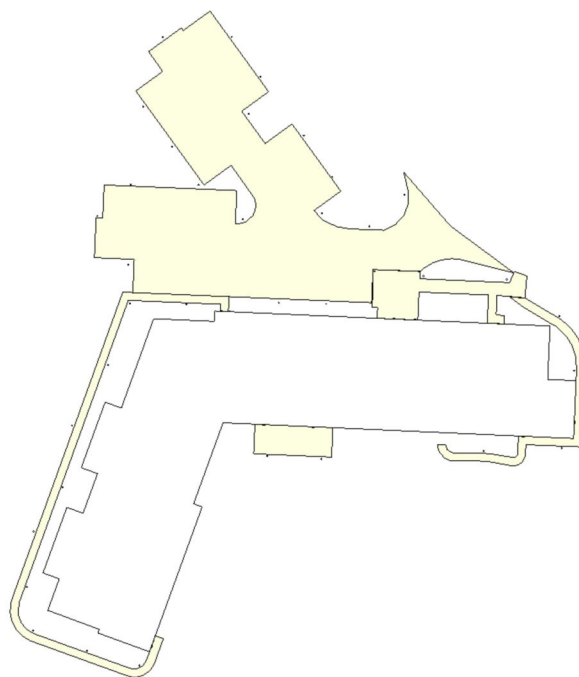




2953 - Prestwich_External Lighting Project

Table of Contents

Cover	1
Table of Contents	2
Contacts	3
Images	4
Luminaire list	5

Site 1

Luminaire layout plan	6
Calculation objects / Emergency light scene	11
Calculation objects / Light scene 1	13
Entrance / Emergency light scene / Horizontal illuminance	15
Pathway 1 / Emergency light scene / Horizontal illuminance	16
Carpark / Light scene 1 / Horizontal illuminance	17
Entrance / Light scene 1 / Horizontal illuminance	18
Patio / Light scene 1 / Horizontal illuminance	19
Pathway 1 / Light scene 1 / Horizontal illuminance	20
Pathway 2 / Light scene 1 / Horizontal illuminance	21

Contacts



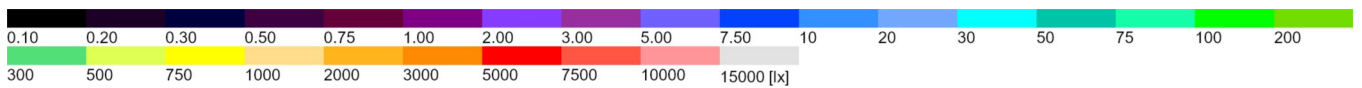
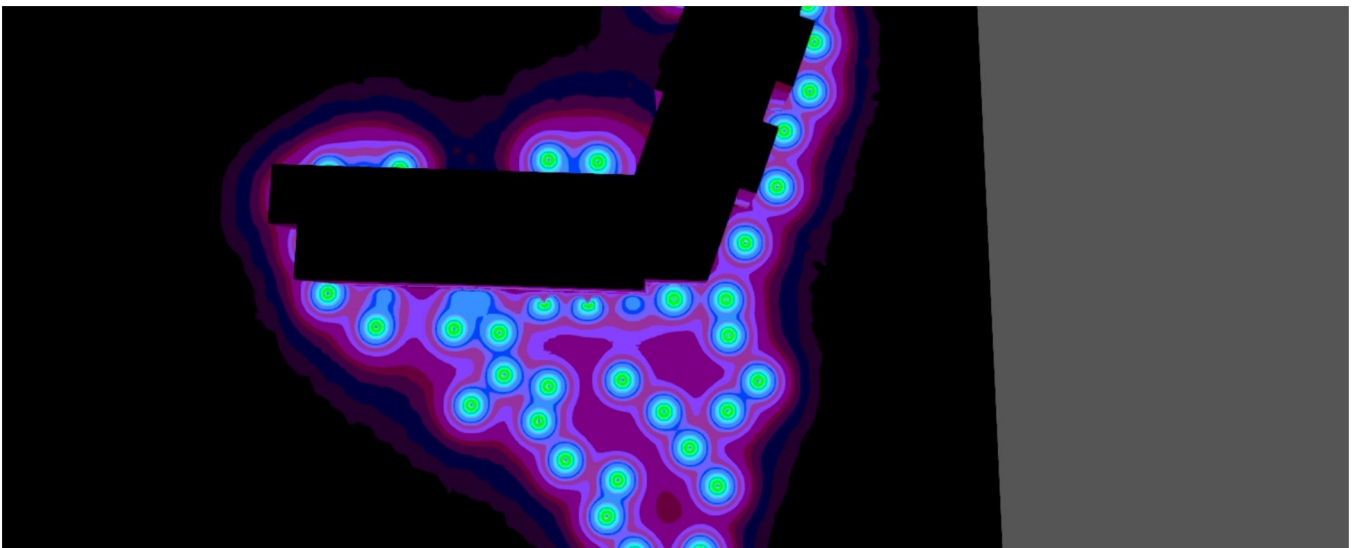
CEO

Andrew Coates

LS DESIGN & CONSULT
Unit 1 Mucklow Hill Trading
Estate

T 0121 585 3950
consult@lsukdesign.co.uk

Images



Luminaire list

Φ_{total} 68751 lm	P_{total} 726.9 W	Luminous efficacy 94.6 lm/W	$\Phi_{\text{Emergency lighting}}$ 45002 lm	$P_{\text{Emergency lighting}}$ 470.1 W
-----------------------------------	-------------------------------	--------------------------------	--	--

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
5	Not yet a DIALux member		Forca 77911-4000K Black	15.6 W	821 lm	52.6 lm/W
				 1.6 W	82 lm (10 %)	-
4	Not yet a DIALux member		Forca 77911-4000K Black	15.6 W	821 lm	52.6 lm/W
				 15.6 W	821 lm (100 %)	-
2	Not yet a DIALux member	15w LED 4000k Deco 2,0 1m high bollard with spill shield	DEC715	15.0 W	1001 lm	66.7 lm/W
23	Not yet a DIALux member	15w LED 4000k Deco 2.0 1m high bollard	DEC715 KING DECO BOLLARD	15.9 W	1696 lm	106.7 lm/W
				 15.9 W	1696 lm (100 %)	-
12	Not yet a DIALux member	15w LED 4000k Deco 2.0 1m high bollard	DEC715 KING DECO BOLLARD	15.9 W	1696 lm	106.7 lm/W
				 1.6 W	170 lm (10 %)	-
4	Not yet a DIALux member	NNE-2-LED-M3V-3.IES	NEWLEC IP65 BULKHEAD EMERGENCY_1051088376	 3.7 W	65 lm (100 %)	-

Site 1

Luminaire layout plan



Site 1

Luminaire layout plan

Not yet a DIALux member - - Forca 77911-4000K Black

1x LED

X	Y	Mounting height	Housing rotation	MF	Luminaire
58.149 m	79.011 m	2.500 m	-90.0° / 0.0° / 177.4°	0.80	25
82.782 m	77.904 m	2.500 m	-90.0° / 0.0° / 177.4°	0.80	27
85.944 m	77.771 m	2.500 m	-90.0° / 0.0° / 177.4°	0.80	29
98.432 m	77.201 m	2.500 m	-90.0° / 0.0° / 177.4°	0.80	31
46.198 m	28.584 m	2.500 m	-90.0° / 0.0° / 69.9°	0.80	48

Not yet a DIALux member - - Forca 77911-4000K Black

1x LED

X	Y	Mounting height	Housing rotation	MF	Luminaire
109.916 m	62.347 m	2.500 m	-90.0° / 0.0° / 87.4°	0.80	34
63.174 m	62.010 m	2.500 m	-90.0° / 0.0° / -2.8°	0.80	35
70.593 m	61.665 m	2.500 m	-90.0° / 0.0° / -2.8°	0.80	37
102.233 m	60.252 m	2.500 m	-90.0° / 0.0° / -2.8°	0.80	38

Not yet a DIALux member - 15w LED 4000k Deco 2,0 1m high bollard with spill shield - DEC715

1x DEC15-02 (LFS20B130-XD5)

X	Y	Mounting height	Housing rotation	MF	Luminaire
65.388 m	80.363 m	1.000 m	0.0° / -0.0° / 87.3°	0.80	20
72.529 m	80.173 m	1.000 m	0.0° / -0.0° / 87.3°	0.80	22

Site 1

Luminaire layout plan

Not yet a DIALux member - 15w LED 4000k Deco 2.0 1m high bollard - DEC715 KING DECO
 BOLLARD
 1x DEC15-01

X	Y	Mounting height	Housing rotation	MF	Luminaire
58.322 m	120.394 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	1
47.889 m	120.313 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	2
62.662 m	114.351 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	3
44.988 m	109.880 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	4
60.839 m	108.753 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	5
69.177 m	105.501 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	6
49.291 m	103.848 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	7
73.459 m	99.311 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	8
43.105 m	98.111 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	9
53.328 m	98.111 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	10
84.312 m	96.583 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	11
71.905 m	93.781 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	12
38.076 m	93.425 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	13
59.965 m	92.944 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	14
79.035 m	91.836 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	15
42.738 m	86.040 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	16
79.823 m	85.084 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	17
107.698 m	78.314 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	26
109.875 m	70.135 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	33
108.023 m	58.475 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	39
96.295 m	58.047 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	40

Site 1

Luminaire layout plan

X	Y	Mounting height	Housing rotation	MF	Luminaire
63.688 m	57.270 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	41
71.800 m	56.854 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	42

Not yet a DIALux member - 15w LED 4000k Deco 2.0 1m high bollard - DEC715 KING DECO
 BOLLARD
 1x DEC15-01

X	Y	Mounting height	Housing rotation	MF	Luminaire
87.168 m	84.353 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	18
99.741 m	83.853 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	19
43.015 m	80.228 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	21
51.468 m	80.067 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	23
39.684 m	71.024 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	32
34.278 m	61.863 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	36
32.865 m	52.588 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	43
28.457 m	45.927 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	44
27.452 m	37.585 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	45
28.392 m	31.023 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	46
36.503 m	28.014 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	49
44.403 m	25.758 m	1.000 m	0.0° / -0.0° / -0.0°	0.80	50

Site 1

Luminaire layout plan

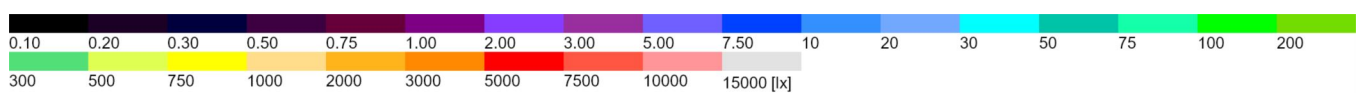
Not yet a DIALux member - NNE-2-LED-M3V-3.IES - NEWLEC IP65 BULKHEAD

EMERGENCY_1051088376

1x 65 lm, 3.7 W

X	Y	Mounting height	Housing rotation	MF	Luminaire
57.227 m	79.062 m	2.500 m	90.0° / 0.0° / -2.5°	0.80	24
84.252 m	77.852 m	2.500 m	90.0° / 0.0° / -2.5°	0.80	28
97.546 m	77.247 m	2.500 m	90.0° / 0.0° / -2.5°	0.80	30
46.463 m	29.295 m	2.500 m	90.0° / 0.0° / -109.5°	0.80	47

Site 1 (Emergency light scene)

Calculation objects

Site 1 (Emergency light scene)

Calculation objects

Notes on planning:

The emergency lighting scene was calculated without reflection and without taking into account the placed furniture.

Site 1 (Light scene 1)

Calculation objects

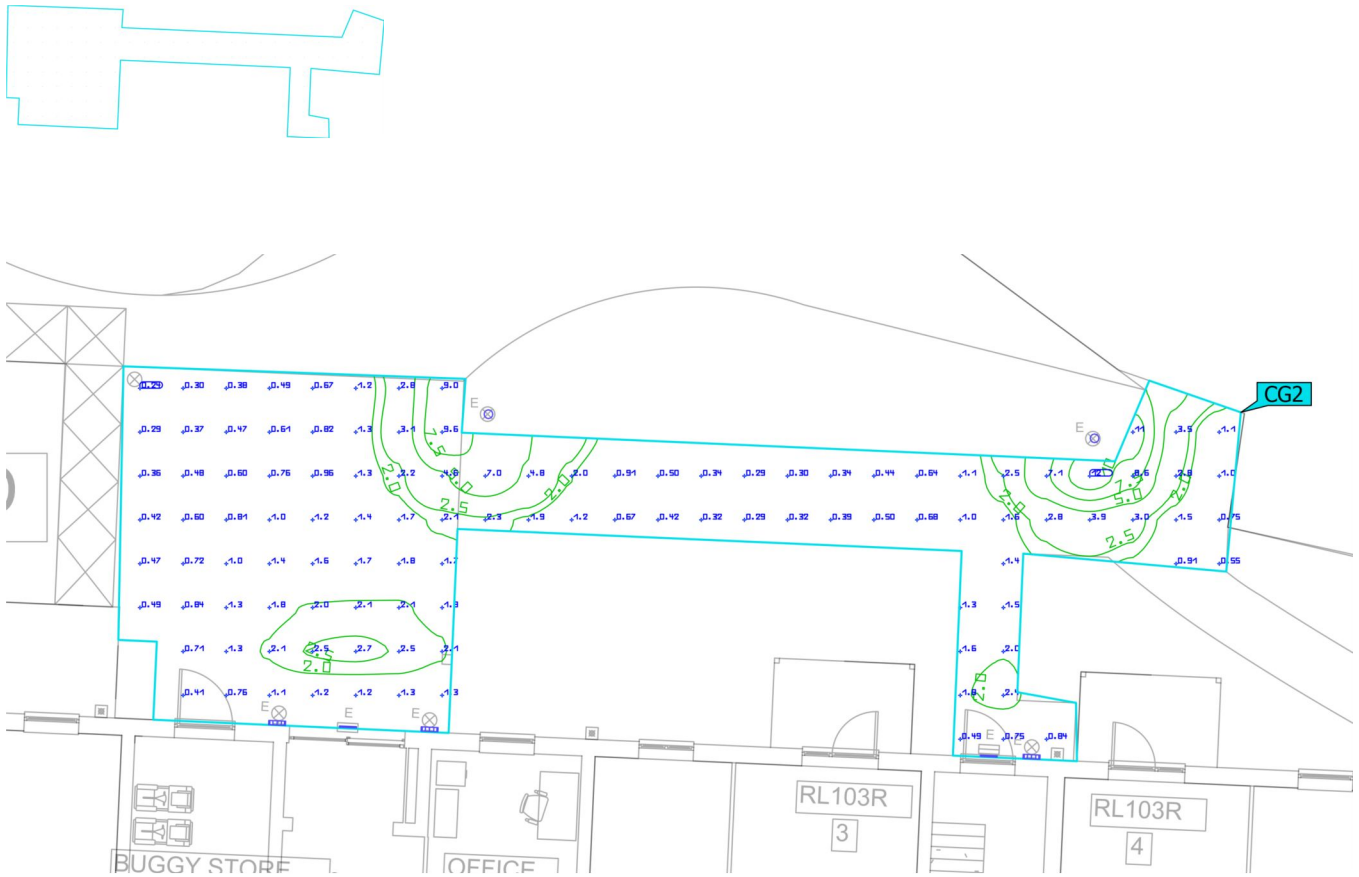
Site 1 (Light scene 1)

Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Carpark Horizontal illuminance Height: 0.000 m	9.84 lx	0.85 lx	97.9 lx	0.086	0.009	CG1
Entrance Horizontal illuminance Height: 0.000 m	19.7 lx	2.50 lx	116 lx	0.13	0.022	CG2
Patio Horizontal illuminance Height: 0.000 m	21.9 lx	2.97 lx	127 lx	0.14	0.023	CG3
Pathway 1 Horizontal illuminance Height: 0.000 m	29.8 lx	2.10 lx	123 lx	0.070	0.017	CG4
Pathway 2 Horizontal illuminance Height: 0.000 m	22.8 lx	0.13 lx	123 lx	0.006	0.001	CG5

Site 1 (Emergency light scene)

Entrance

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Entrance Horizontal illuminance Height: 0.000 m	1.80 lx	0.24 lx	11.7 lx	0.13	0.021	CG2

Notes on planning:

The emergency lighting scene was calculated without reflection and without taking into account the placed furniture.

Site 1 (Emergency light scene)
Pathway 1



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Pathway 1 Horizontal illuminance Height: 0.000 m	2.96 lx	0.17 lx	12.2 lx	0.057	0.014	CG4

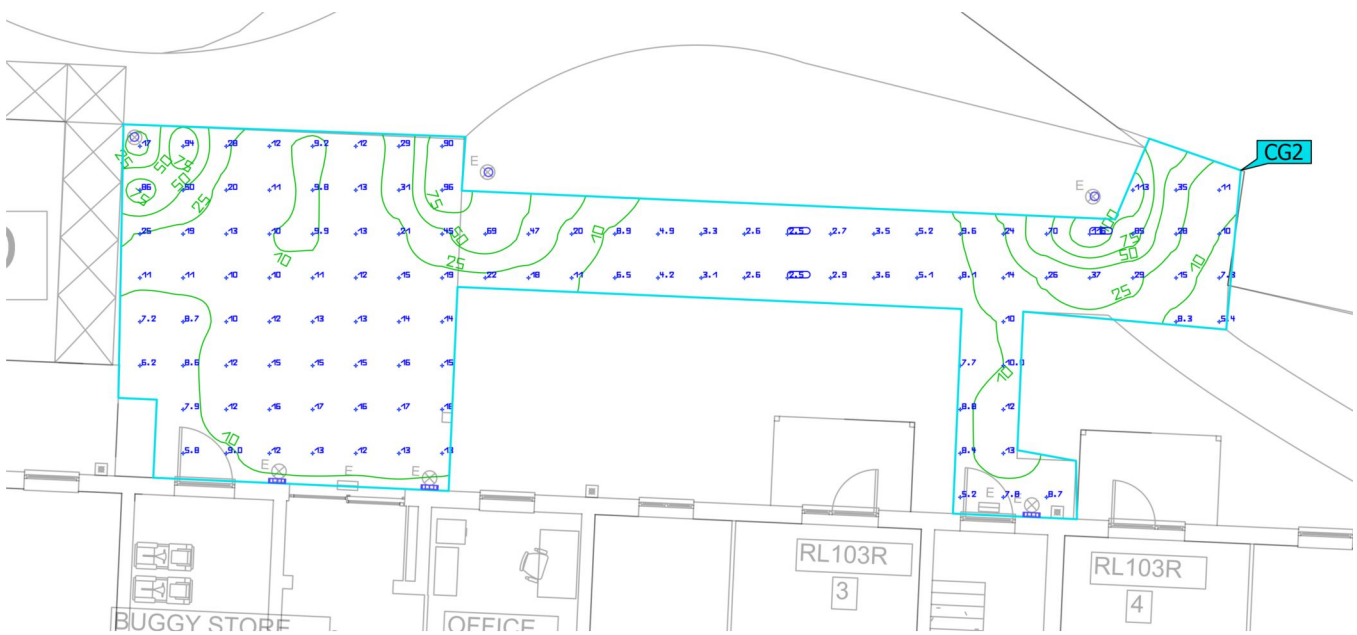
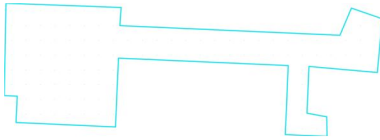
Notes on planning:
The emergency lighting scene was calculated without reflection and without taking into account the placed furniture.

Site 1 (Light scene 1)
Carpark



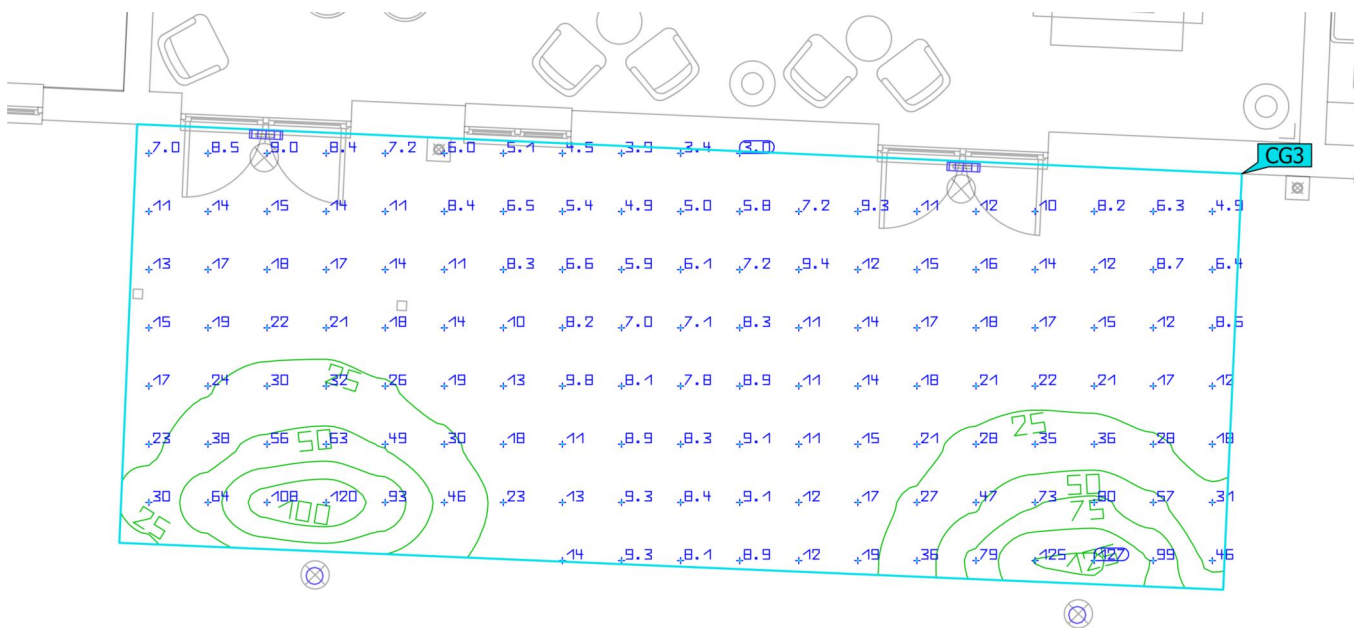
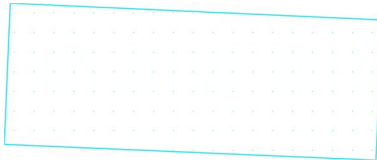
Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Carpark Horizontal illuminance Height: 0.000 m	9.84 lx	0.85 lx	97.9 lx	0.086	0.009	CG1

Site 1 (Light scene 1)

Entrance

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Entrance Horizontal illuminance Height: 0.000 m	19.7 lx	2.50 lx	116 lx	0.13	0.022	CG2

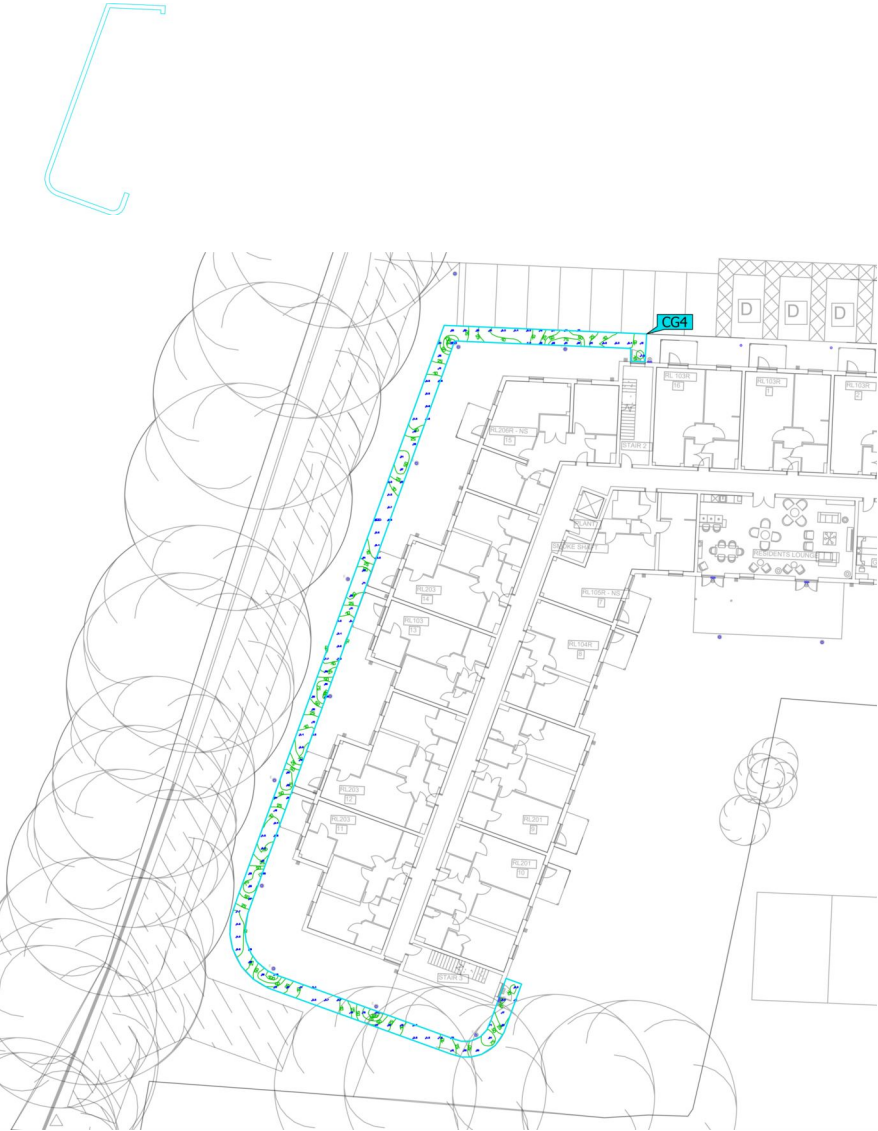
Site 1 (Light scene 1)

Patio

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Patio Horizontal illuminance Height: 0.000 m	21.9 lx	2.97 lx	127 lx	0.14	0.023	CG3

Site 1 (Light scene 1)

Pathway 1



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Pathway 1 Horizontal illuminance Height: 0.000 m	29.8 lx	2.10 lx	123 lx	0.070	0.017	CG4

Site 1 (Light scene 1)
Pathway 2



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
Pathway 2 Horizontal illuminance Height: 0.000 m	22.8 lx	0.13 lx	123 lx	0.006	0.001	CG5