



MID KENT GOLF CLUB LIGHTING IMPACT ASSESSMENT AND EXTERNAL LIGHTING DESIGN

Issue Purpose: Information
Document Revision: R01

Issue Date: 13th July 2022
Project No: 22-9026

Lighting Design Summary

As requested, we have limited our design to the facades of the proposed extension. We have not included any existing or proposed lighting to the existing building, car park or footpaths.

Our design is simple and unobtrusive and our aim was to make the best of the architecture using minimalist light sources.

The structural columns at ground level to the West and South sides and at first floor to the viewing gallery to the South side are uplit with small narrow beam uplights to the sides. The same uplights are used at the columns between the windows of the bar and in two arrays of three to upwash the light-coloured walls at the far ends of the colonnade around the function room. An uplight with a soft wash is used on another stretch of wall under the colonnade to this side. For general task lighting to the covered terrace behind the bar there is an array of trimless recessed downlights.

For the first floor, we again uplit the columns to the viewing gallery, but this time with a single uplight behind the column, which is mirrored to the inside wall. We have not included any task lighting here as we assume it will not generally be used at night. We included one purely decorative feature on the first floor; the light-coloured section of wall above the colonnade around the function room is uplit from a linear source. The visual effect of this is to make the upper floor appear to float above the lower floor when viewed from a distance. Note that the two clusters of uplights at the ends of the terrace tie this feature to the ground.

In terms of controls, we simply have four switching circuits for: ground floor uplights, terrace downlights, viewing gallery uplights and the linear feature.

Our design is for architectural lighting only and does not include emergency lighting or signage. This should only be activated during emergency (power out scenario) and therefore was not considered for the Lighting Impact Assessment due to the infrequency of operation. Emergency lighting shall be designed during the detailed design phase by the MEP Consultant or Contractor Design Team.

Please refer to 3D images for visuals of the proposed lighting scheme. The modelling was produced in Dialux Evo.

Lighting Impact Assessment and External Lighting Design

Schedule Revision – R01

Lighting Impact Assessment

We have included a horizontal lux calculation for each garden and a vertical calculation at the facing elevation of each house in Dennis Road and Singlewell Road that may be affected with light from the clubhouse. Refer to site layout in report.

As far as these new works are concerned, only properties in Dennis Road are likely to be affected; these are calculations CG1 - CG26. We included CG27 to CG46 in case it is ever needed to revisit these areas to look at lighting on the existing building (not requested as part of the planning application).

ILP GN01, BS 5489, CIE Standards, the CIBSE and the Society of Light & Lighting guidance documents all apply a common Environmental Zoning system, which is summarised in the table below. It has been assumed that the site falls in the classifications of zone E3 (Medium district brightness areas).

Zone	Surrounding	Lighting Environment	Examples
E0	Protected	Dark	UNESCO Starlight Reserves, IDA Dark Sky Parks
E1	Natural	Intrinsically dark	National parks, Areas of Outstanding Natural Beauty etc
E2	Rural	Low district brightness	Village or relatively dark outer suburban locations
E3	Suburban	Medium district brightness	Small town centres or suburban locations.
E4	Urban	High district brightness	Town / city centres with high levels of night-time activity.

Table – 5 Environmental Zones (Source: ILP GN01)

Based on the Zoning above see below the limits of obtrusive light into neighbouring properties as outlined within the above guidance.

Environmental Zone	Sky Glow ULR (Max %)	Light Intrusion (into windows) Ev (Lux)		Source Intensity I (cd)		Building Luminance Pre-curfew
		Pre-Curfew	Post-Curfew	Pre-Curfew	Post-curfew	Average L (cd/m ²)
E0	0	0	0	0	0	0
E1	0	2	0	2500	0	0
E2	2.5	5	1	7500	500	5
E3	5.0	10	2	10000	1000	10
E4	15.0	25	5	25000	2500	25

Table 6 – Obtrusive Light Limitations for Exterior Lighting Installations

The highest level recorded is 0.32 lux on the rear facade of 4 Dennis Road (CG21) which is well under the pre and post curfew limits. Note that we have included outbuildings as obstacles in our model, but no foliage. Foliage which will also decrease levels further. I.e reducing the light levels further too.

The Lighting Impact assessment indicates there are no issues as regards to spill of intrusive light to neighbouring properties surrounding the proposed site.



LUMINAIRE SCHEDULE

Project: Mid Kent Golf Club

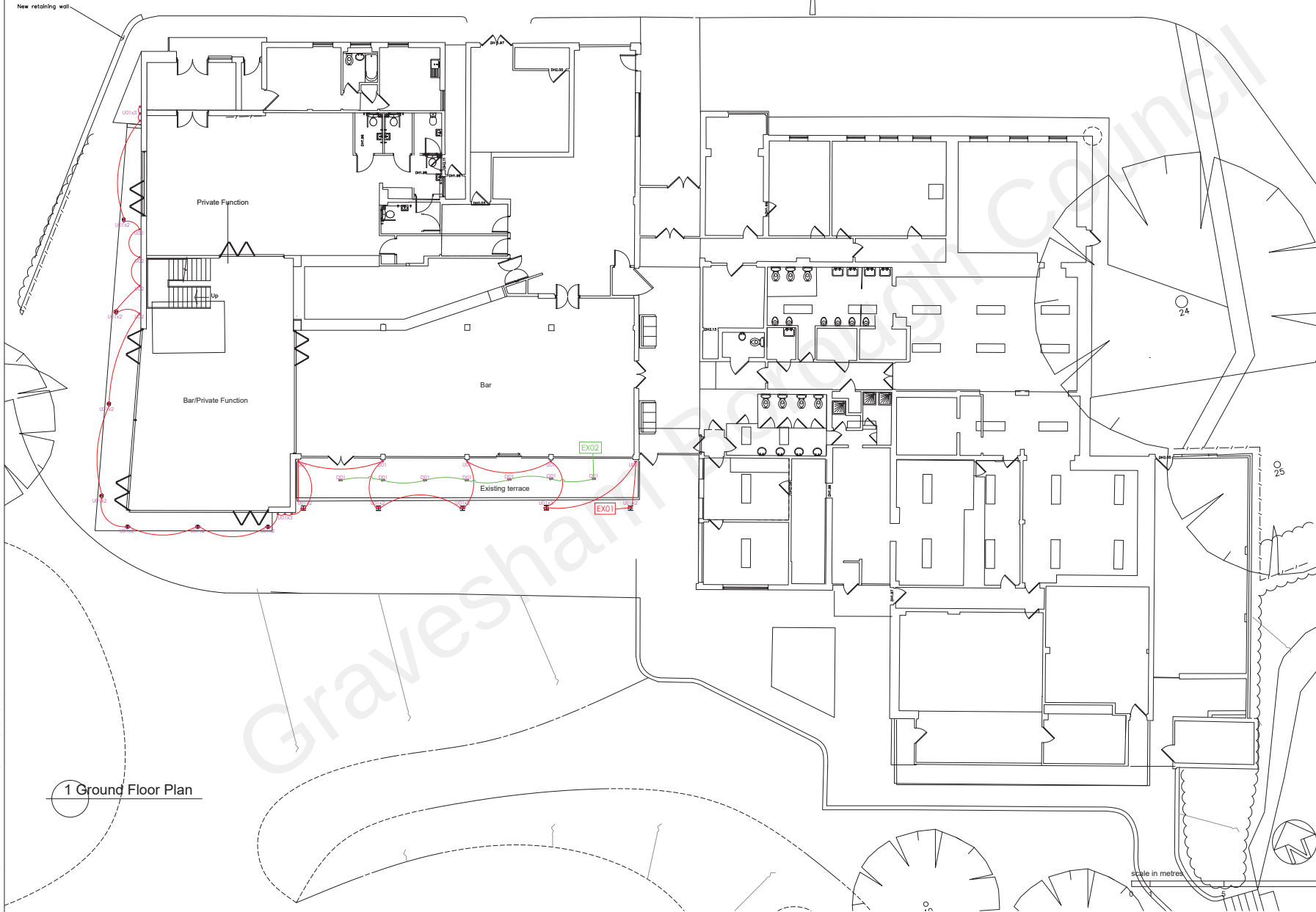
Type	Description	Image	Notes
D01	Recessed rectangular ceiling-mounted IP68 luminaire, compact body, Warm White LEDs, Wide Flood optic. 13W 825LM		
U01	Recessed in ground LED uplight, 8° 3000k, 1.4w, 83lm, IP68		
U02	Recessed in ground LED uplight, 68° 3000k, 2w, 158lm, IP69		
L01	Wall-/Ceiling-mounted linear LED- 12 Warm White LEDs - 24V dc - L=1056mm - Wall Grazing Optic. 12.4w 972lm		

THIS IS NOT AN INSTALLATION / WORKING DRAWING!

DO NOT SCALE DRAWING -
IF IN DOUBT, ASK

Notes:-

1. This BSG Drawing is Not To Be Used As An Installation or Working Drawing.



Rev	Drawn	App'd	Date	Revision Description
P1	SP	RF	13.07.22	Information for Planning

Rev	Drawn	App'd	Date	Revision Description
Issue				Information for Planning

Information for Planning

BUILDING SERVICES
GROUP Ltd
Cape House, 60a Priory Road,
Tonbridge, Kent.
TN9 2BL
Tel: +44 (0)1732 350557
Email: bsg@bsguk.com
Web-Site: www.bsguk.com



Client

Mid Kent
Golf Club Ltd

Project

Mid Kent
Golf Club
External Lighting

Title

Ground Floor
External Lighting
Layout

Scale: 1:100@A1	Drawn By: S.Phillips
Date: July/22	Checked By: R.Forth

Orig No: 22-9026/E/EX/200	Rev: P1
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THIS IS NOT AN INSTALLATION / WORKING DRAWING!

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1. This BSG Drawing is Not To Be Used As An
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P1	SP	RF	13.07.22	Information for Planning
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**BUILDING SERVICES
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TN9 2BL
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Client

Mid Kent
Golf Club Ltd

Project

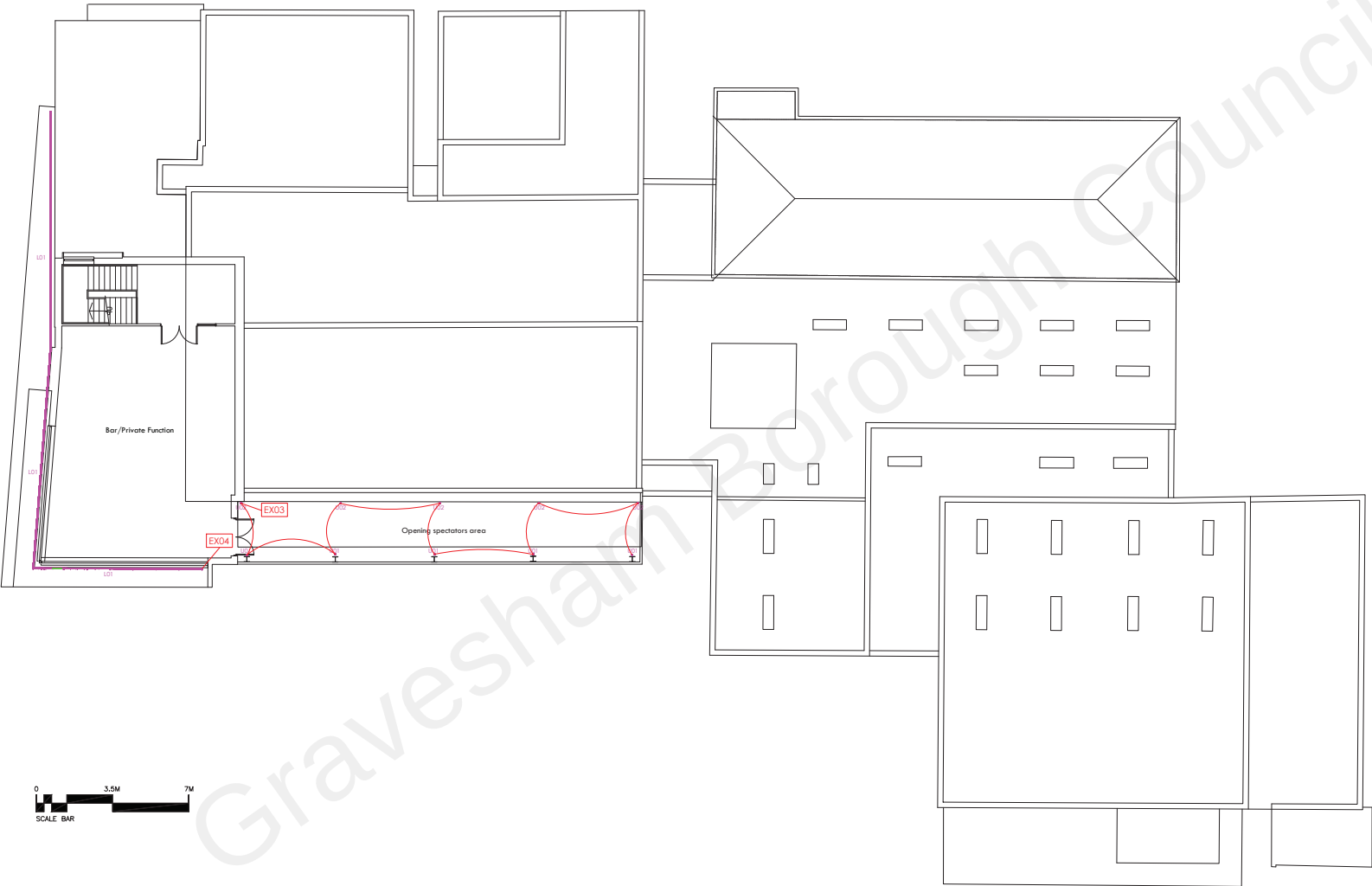
Mid Kent
Golf Club
External Lighting

Title

First Floor
External Lighting
Layout

Scale: 1:100@A1	Drawn By: S.Phillips
Date: July/22	Checked By: R.Forth

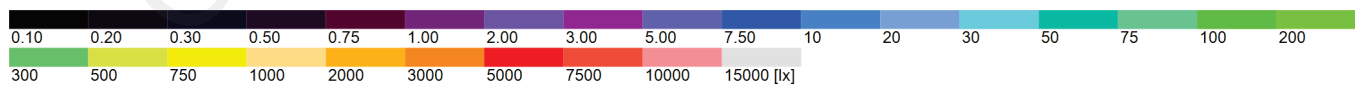
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22-9026/E/EX/210	P1



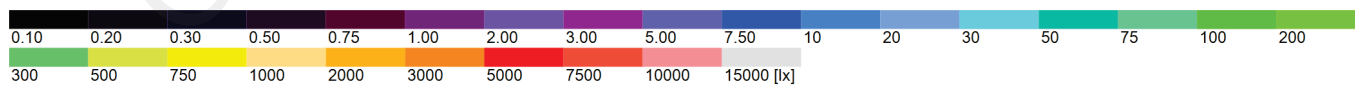


Mid Kent Golf Club

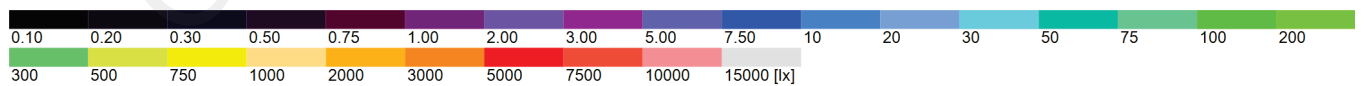
Images



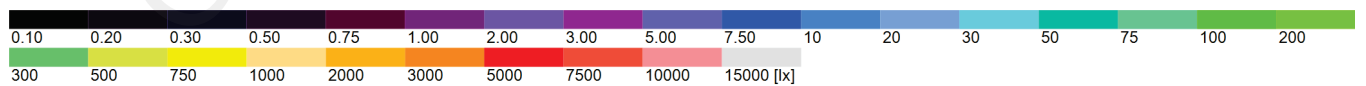
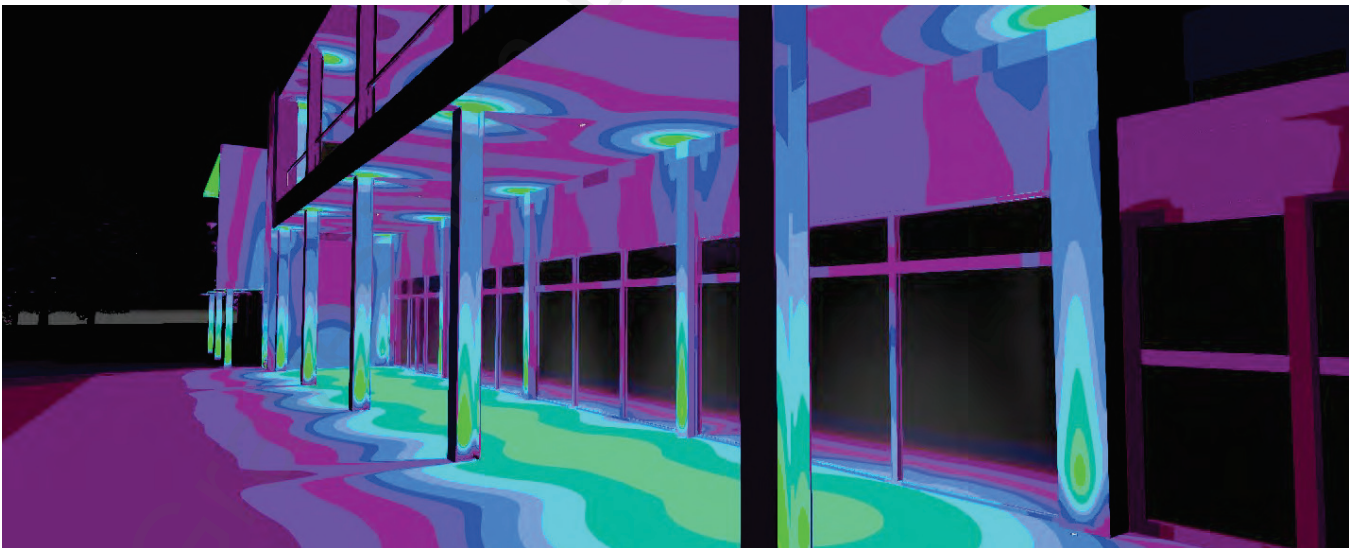
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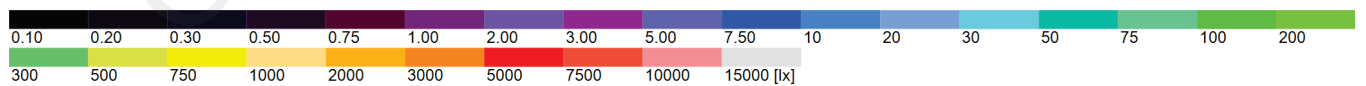
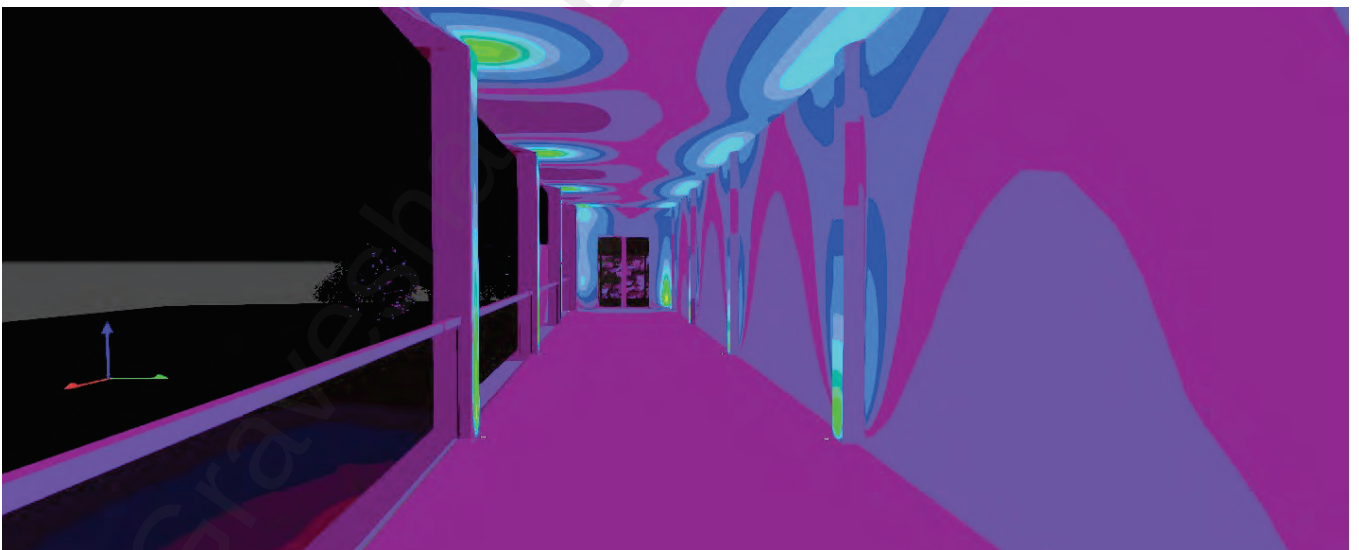
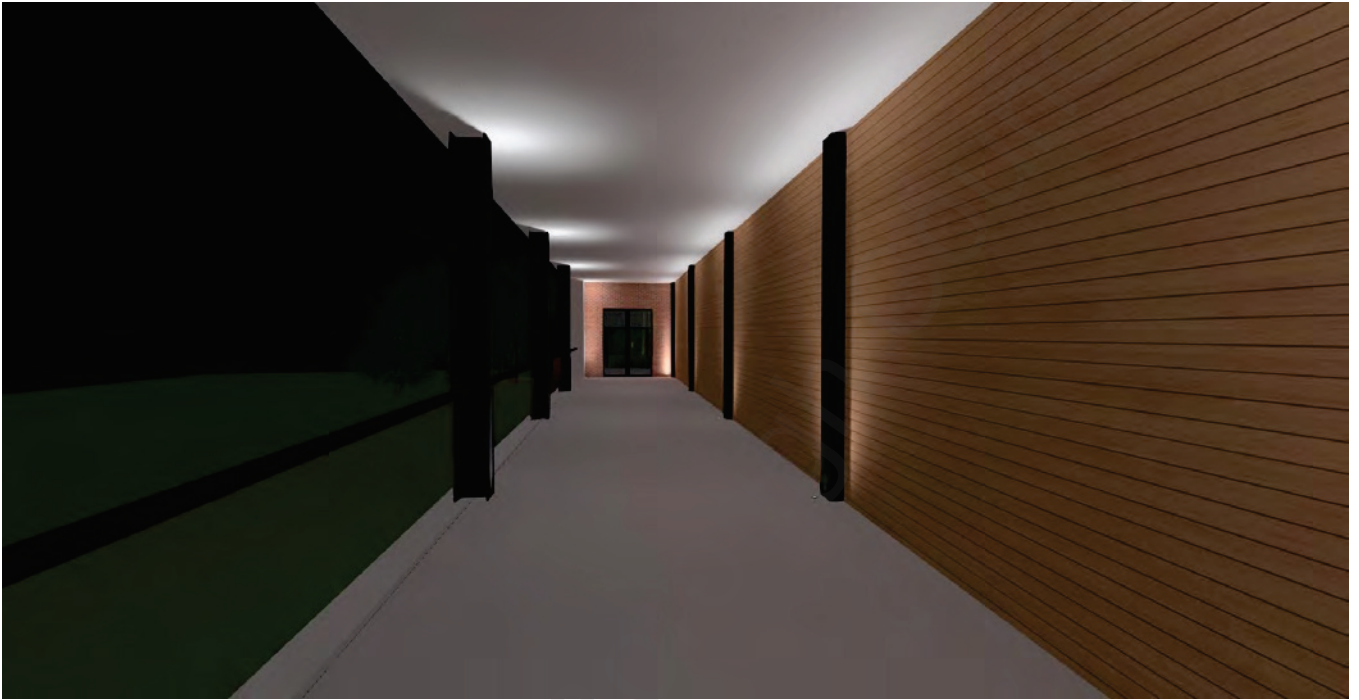
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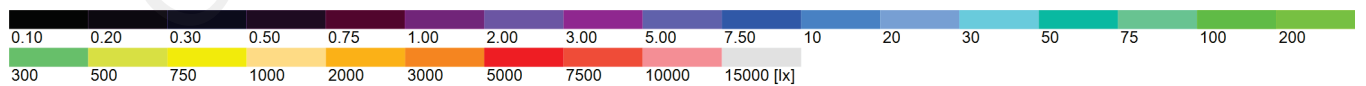
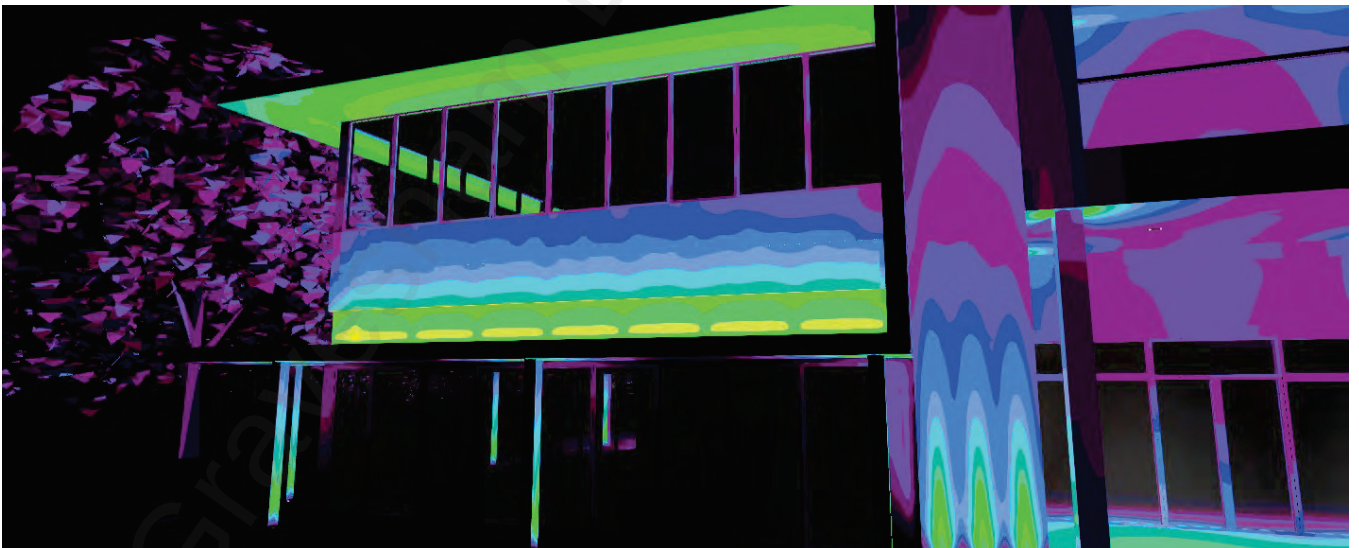
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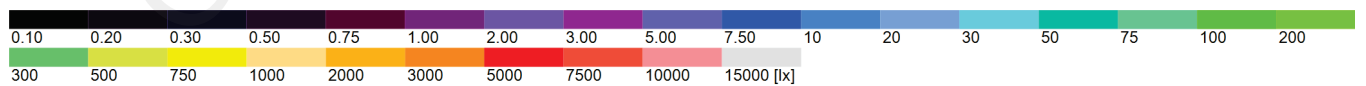
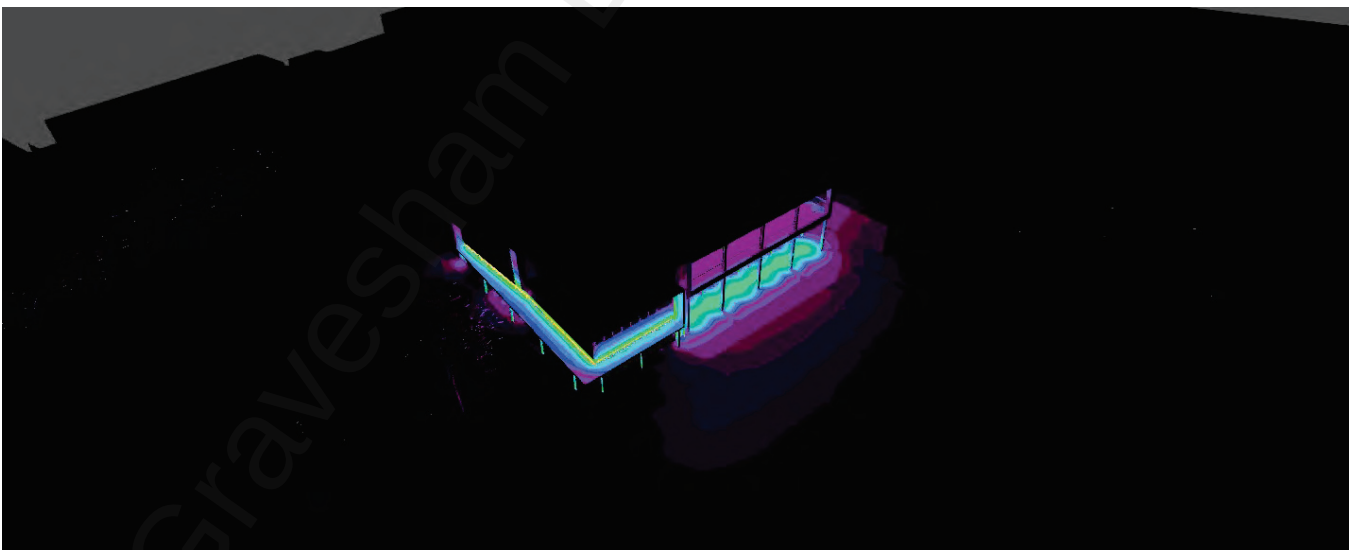
Images



Images



Images



Calculation objects



Site 1 (Light scene 1)

Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 24 Facade Vertical illuminance Rotation: 320.2°, Height: 4.000 m	0.000 lx	0.000 lx	0.001 lx	-	-	CG1
No. 24 Garden Horizontal illuminance Height: 0.860 m	0.000 lx	0.000 lx	0.016 lx	-	0.00	CG2
No. 22 Facade Vertical illuminance Rotation: 333.4°, Height: 3.894 m	0.000 lx	0.000 lx	0.000 lx	-	-	CG3
No. 22 Garden Horizontal illuminance Height: 1.000 m	0.001 lx	0.000 lx	0.026 lx	-	0.00	CG4
No. 20 Facade Vertical illuminance Rotation: 284.2°, Height: 4.000 m	0.000 lx	0.000 lx	0.001 lx	-	-	CG5
No. 20 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.002 lx	-	-	CG6
No. 18 Facade Vertical illuminance Rotation: 284.2°, Height: 4.000 m	0.008 lx	0.000 lx	0.38 lx	-	0.00	CG7
No. 18 Garden Horizontal illuminance Height: 1.000 m	0.001 lx	0.000 lx	0.008 lx	-	-	CG8
No. 16 Facade Vertical illuminance Rotation: 285.5°, Height: 4.000 m	0.003 lx	0.000 lx	0.14 lx	-	0.00	CG9
No. 16 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.004 lx	-	-	CG10
No. 14 Facade Vertical illuminance Rotation: 285.5°, Height: 4.000 m	0.001 lx	0.000 lx	0.019 lx	-	0.00	CG11

Site 1 (Light scene 1)

Calculation objects

No. 14 Garden Horizontal illuminance Height: 1.000 m	0.001 lx	0.000 lx	0.012 lx	-	0.00	CG12
No. 12 Facade Vertical illuminance Rotation: 285.5°, Height: 4.000 m	0.001 lx	0.000 lx	0.029 lx	-	0.00	CG13
No. 12 Garden Horizontal illuminance Height: 1.000 m	0.001 lx	0.000 lx	0.035 lx	-	0.00	CG14
No. 10 Facade Vertical illuminance Rotation: 285.5°, Height: 4.000 m	0.019 lx	0.000 lx	0.37 lx	0.00	0.00	CG15
No. 10 Garden Horizontal illuminance Height: 1.000 m	0.003 lx	0.000 lx	0.068 lx	-	0.00	CG16
No. 8 Facade Vertical illuminance Rotation: 283.7°, Height: 4.000 m	0.001 lx	0.000 lx	0.001 lx	-	-	CG17
No. 8 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.000 lx	-	-	CG18
No. 6 Facade Vertical illuminance Rotation: 283.7°, Height: 4.000 m	0.011 lx	0.000 lx	0.24 lx	0.00	0.00	CG19
No. 6 Garden Horizontal illuminance Height: 1.000 m	0.001 lx	0.000 lx	0.011 lx	-	0.00	CG20
No. 4 Facade Vertical illuminance Rotation: 283.7°, Height: 4.000 m	0.022 lx	0.000 lx	0.32 lx	0.00	0.00	CG21
No. 4 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.005 lx	-	-	CG22
No. 2 Facade Vertical illuminance Rotation: 283.7°, Height: 4.000 m	0.004 lx	0.000 lx	0.087 lx	-	0.00	CG23

Site 1 (Light scene 1)

Calculation objects

No. 2 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.000 lx	-	-	CG24
No. 183 Facade Vertical illuminance Rotation: 270.0°, Height: 4.000 m	0.005 lx	0.000 lx	0.075 lx	-	0.00	CG25
No. 183 Garden Horizontal illuminance Height: 1.000 m	0.001 lx	0.000 lx	0.012 lx	-	0.00	CG26
No. 166 Facade Vertical illuminance Rotation: 239.2°, Height: 4.000 m	0.000 lx	0.000 lx	0.005 lx	-	-	CG27
No. 166 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.002 lx	-	-	CG28
No. 168 Facade Vertical illuminance Rotation: 239.2°, Height: 4.000 m	0.003 lx	0.000 lx	0.088 lx	-	0.00	CG29
No. 168 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.006 lx	-	-	CG30
No. 170 Facade Vertical illuminance Rotation: 239.2°, Height: 4.000 m	0.000 lx	0.000 lx	0.000 lx	-	-	CG31
No. 170 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.006 lx	-	-	CG32
No. 170a Facade Vertical illuminance Rotation: 239.2°, Height: 4.000 m	0.001 lx	0.000 lx	0.084 lx	-	0.00	CG33
No. 170a Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.006 lx	-	-	CG34
No. 172 Facade Vertical illuminance Rotation: 239.2°, Height: 4.000 m	0.001 lx	0.000 lx	0.025 lx	-	0.00	CG35

Site 1 (Light scene 1)

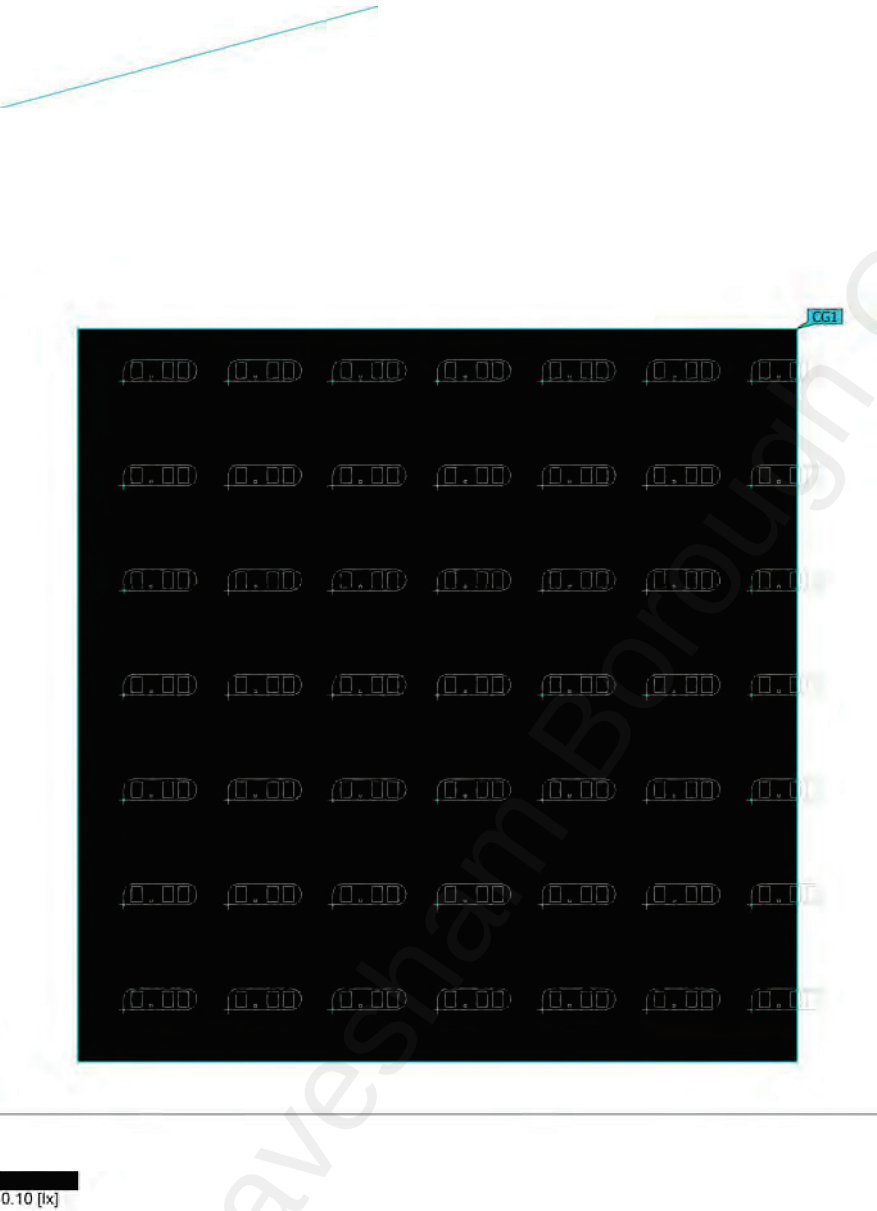
Calculation objects

No. 172 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.007 lx	-	-	CG36
No. 174 Facade Vertical illuminance Rotation: 196.3°, Height: 4.000 m	0.001 lx	0.000 lx	0.13 lx	-	0.00	CG37
No. 174 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.007 lx	-	-	CG38
No. 178 Facade Vertical illuminance Rotation: 181.7°, Height: 4.000 m	0.000 lx	0.000 lx	0.006 lx	-	-	CG39
No. 174 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.000 lx	-	-	CG40
No. 180 Facade Vertical illuminance Rotation: 181.7°, Height: 4.000 m	0.001 lx	0.000 lx	0.017 lx	-	0.00	CG41
No. 180 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.003 lx	-	-	CG42
No. 182 Facade Vertical illuminance Rotation: 181.7°, Height: 4.000 m	0.002 lx	0.000 lx	0.097 lx	-	0.00	CG43
No. 182 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.003 lx	-	-	CG44
No. 184 Facade Vertical illuminance Rotation: 181.7°, Height: 4.000 m	0.003 lx	0.000 lx	0.23 lx	-	0.00	CG45
No. 184 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.004 lx	-	-	CG46

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

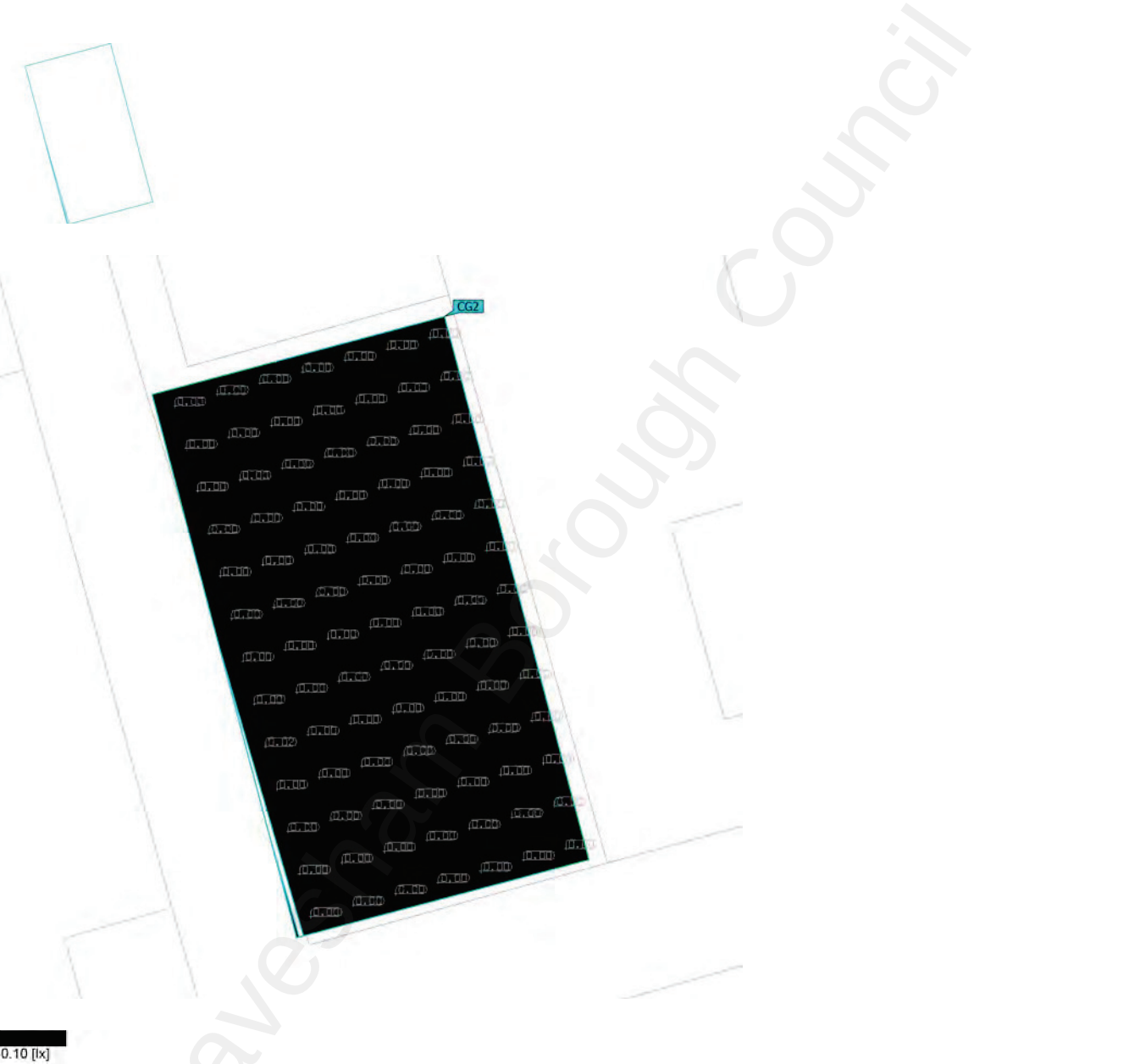
No. 24 Facade



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 24 Facade Vertical illuminance Rotation: 320.2°, Height: 4.000 m	0.000 lx	0.000 lx	0.001 lx	-	-	CG1

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 24 Garden

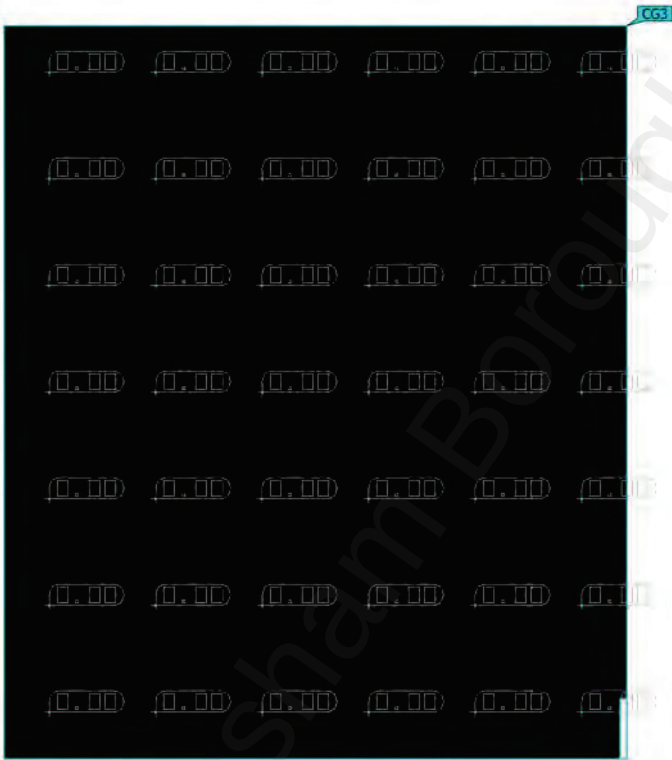


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 24 Garden Horizontal illuminance Height: 0.860 m	0.000 lx	0.000 lx	0.016 lx	-	0.00	CG2

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 22 Facade

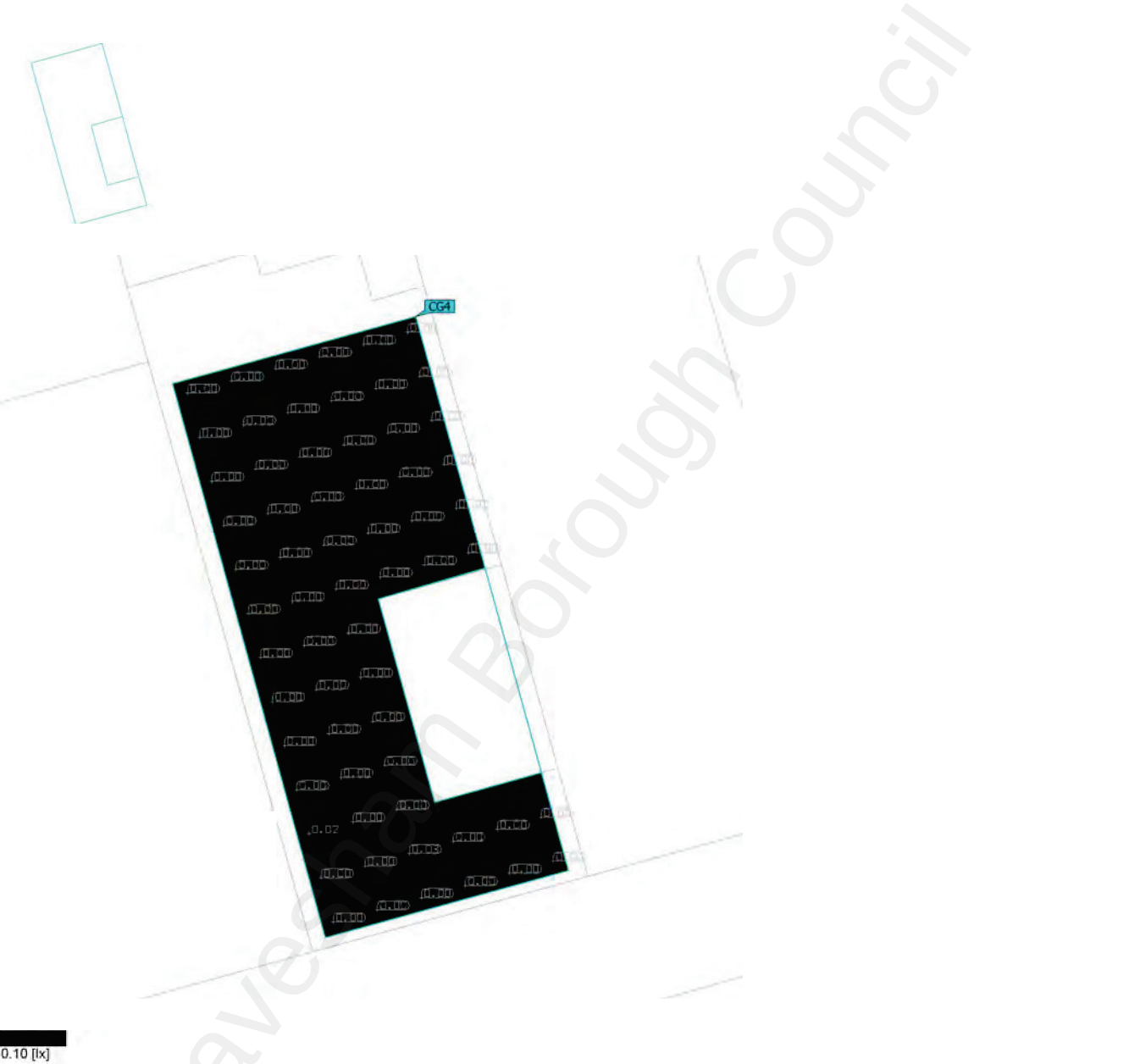


0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 22 Facade Vertical illuminance Rotation: 333.4°, Height: 3.894 m	0.000 lx	0.000 lx	0.000 lx	-	-	CG3

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 22 Garden

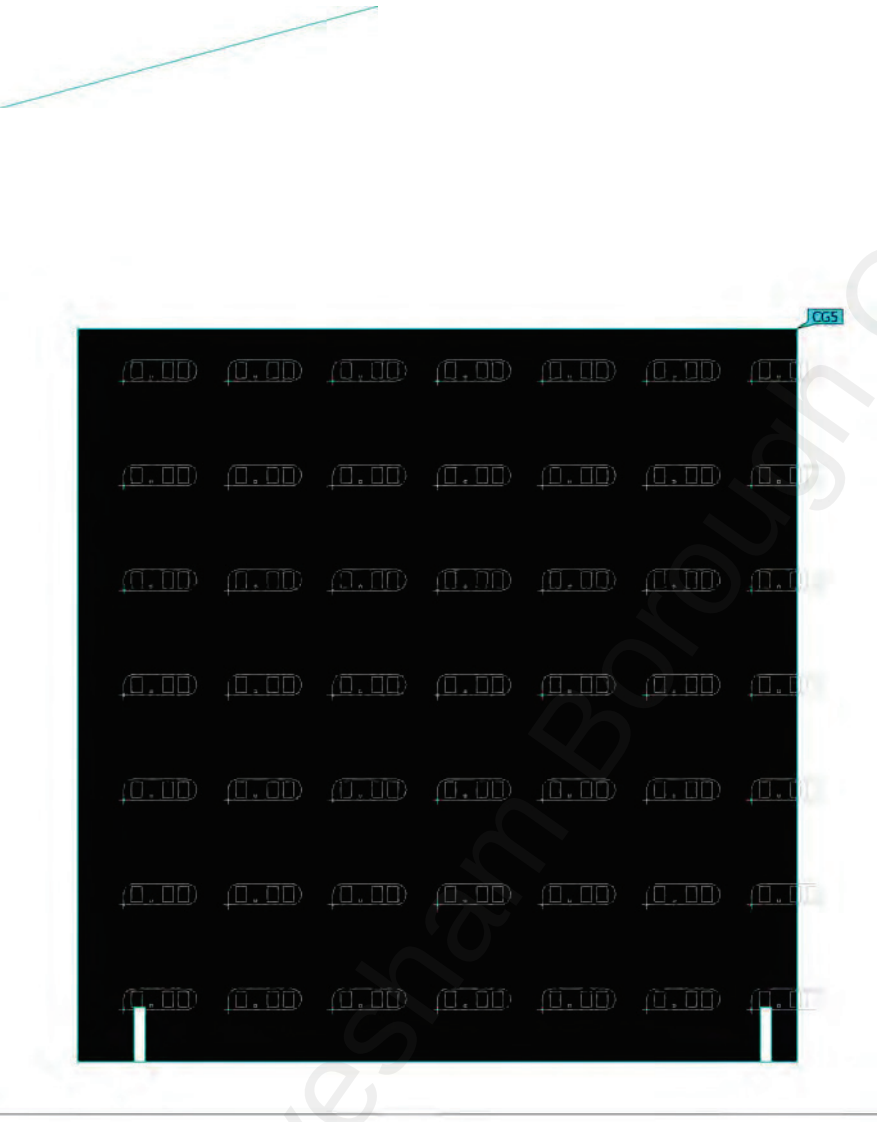


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 22 Garden Horizontal illuminance Height: 1.000 m	0.001 lx	0.000 lx	0.026 lx	-	0.00	CG4

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 20 Facade

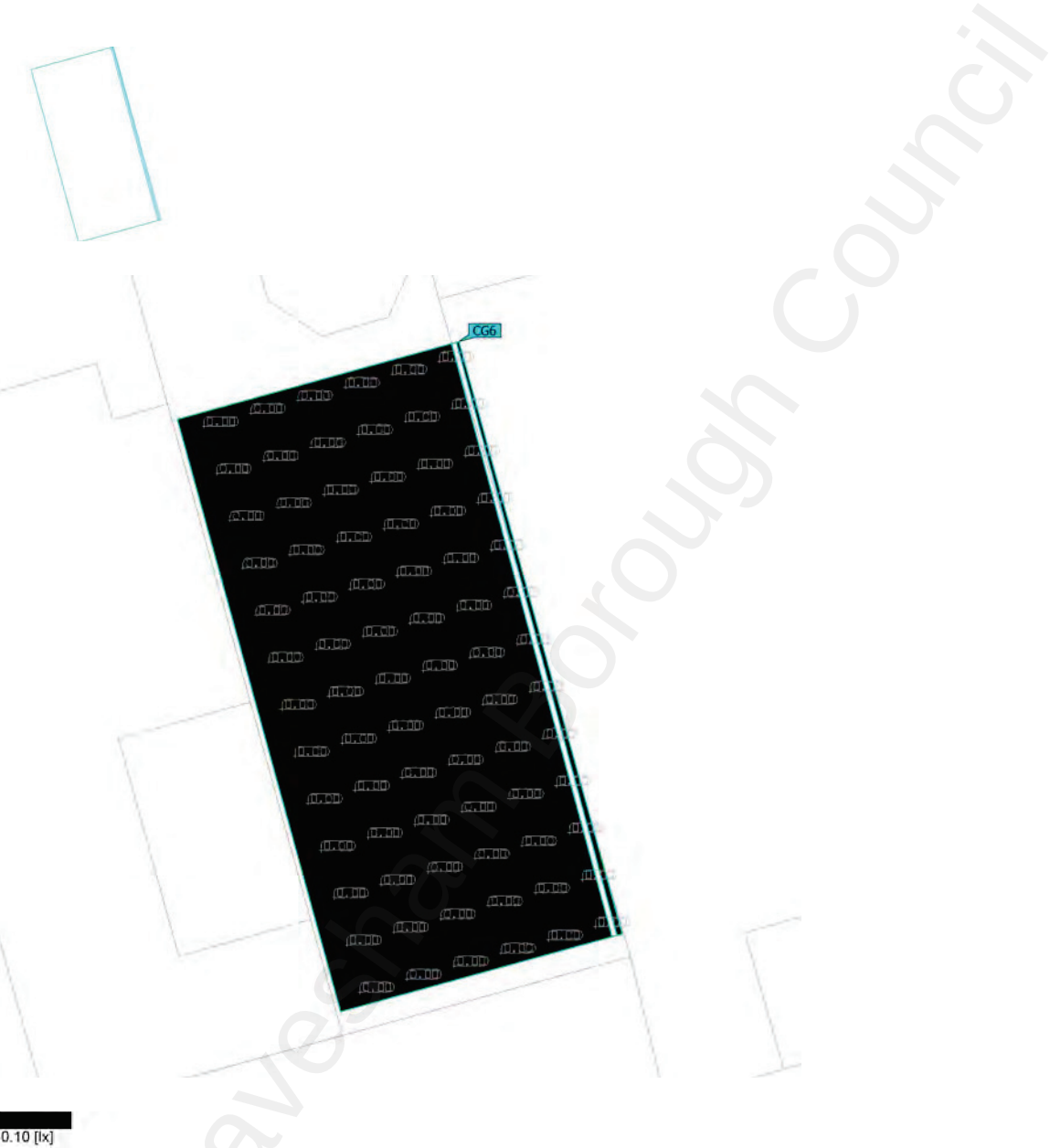


0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 20 Facade Vertical illuminance Rotation: 284.2°, Height: 4.000 m	0.000 lx	0.000 lx	0.001 lx	-	-	CG5

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 20 Garden

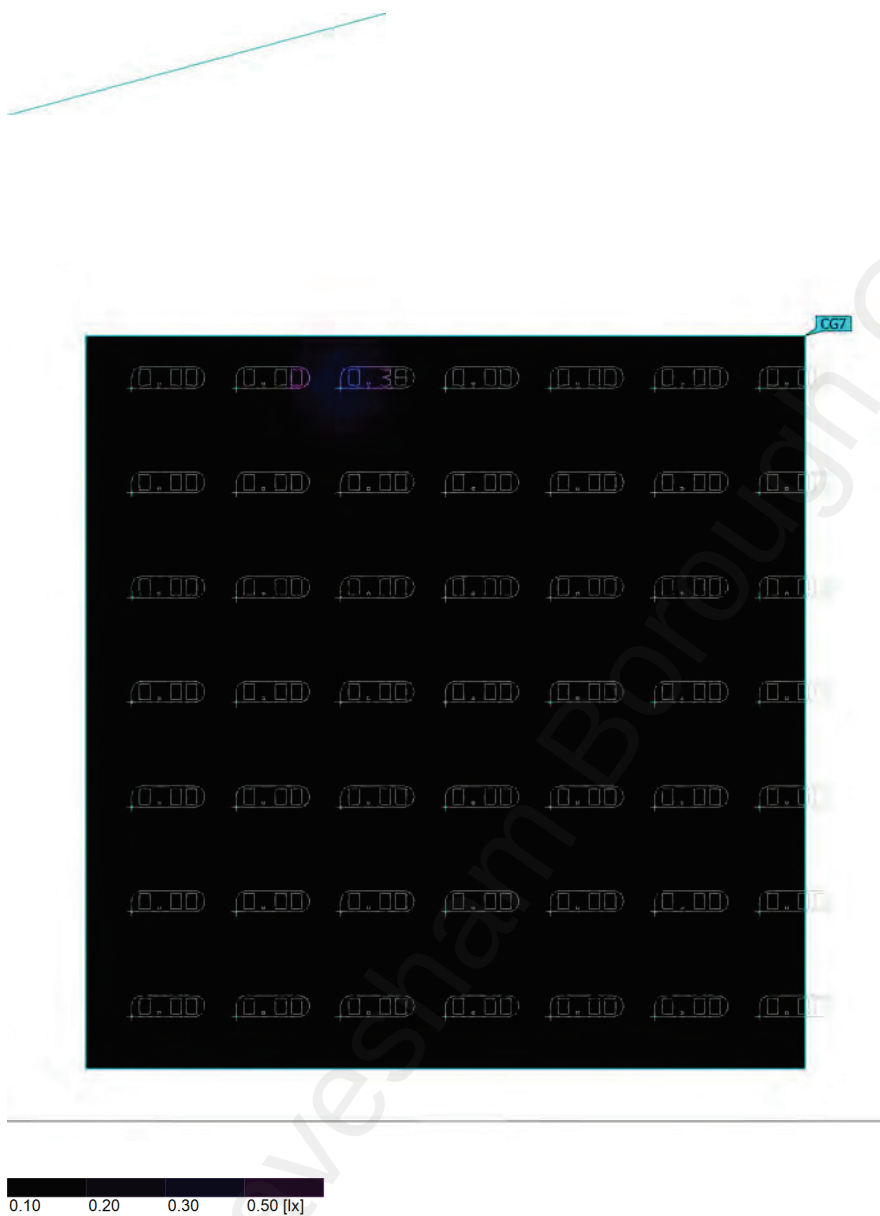


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 20 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.002 lx	-	-	CG6

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

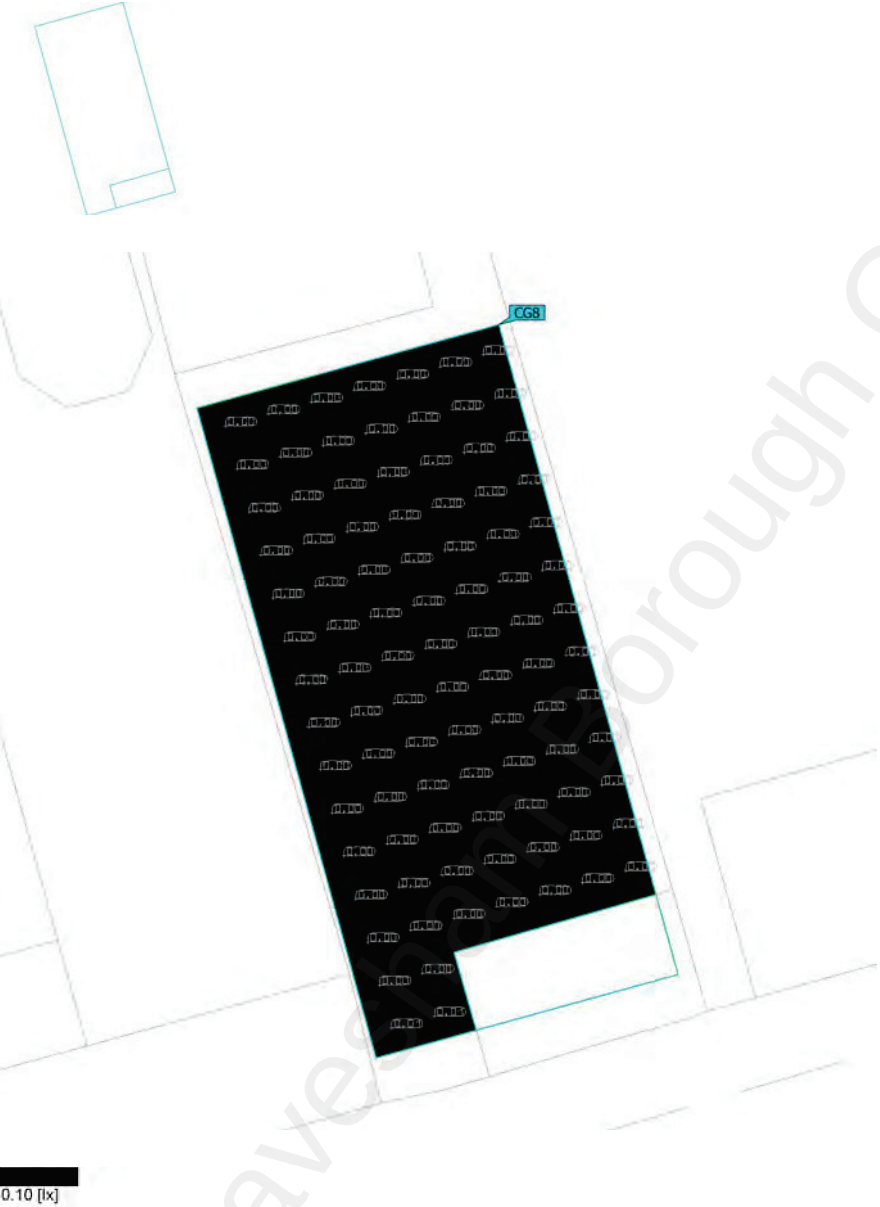
No. 18 Facade



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 18 Facade Vertical illuminance Rotation: 284.2°, Height: 4.000 m	0.008 lx	0.000 lx	0.38 lx	-	0.00	CG7

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 18 Garden

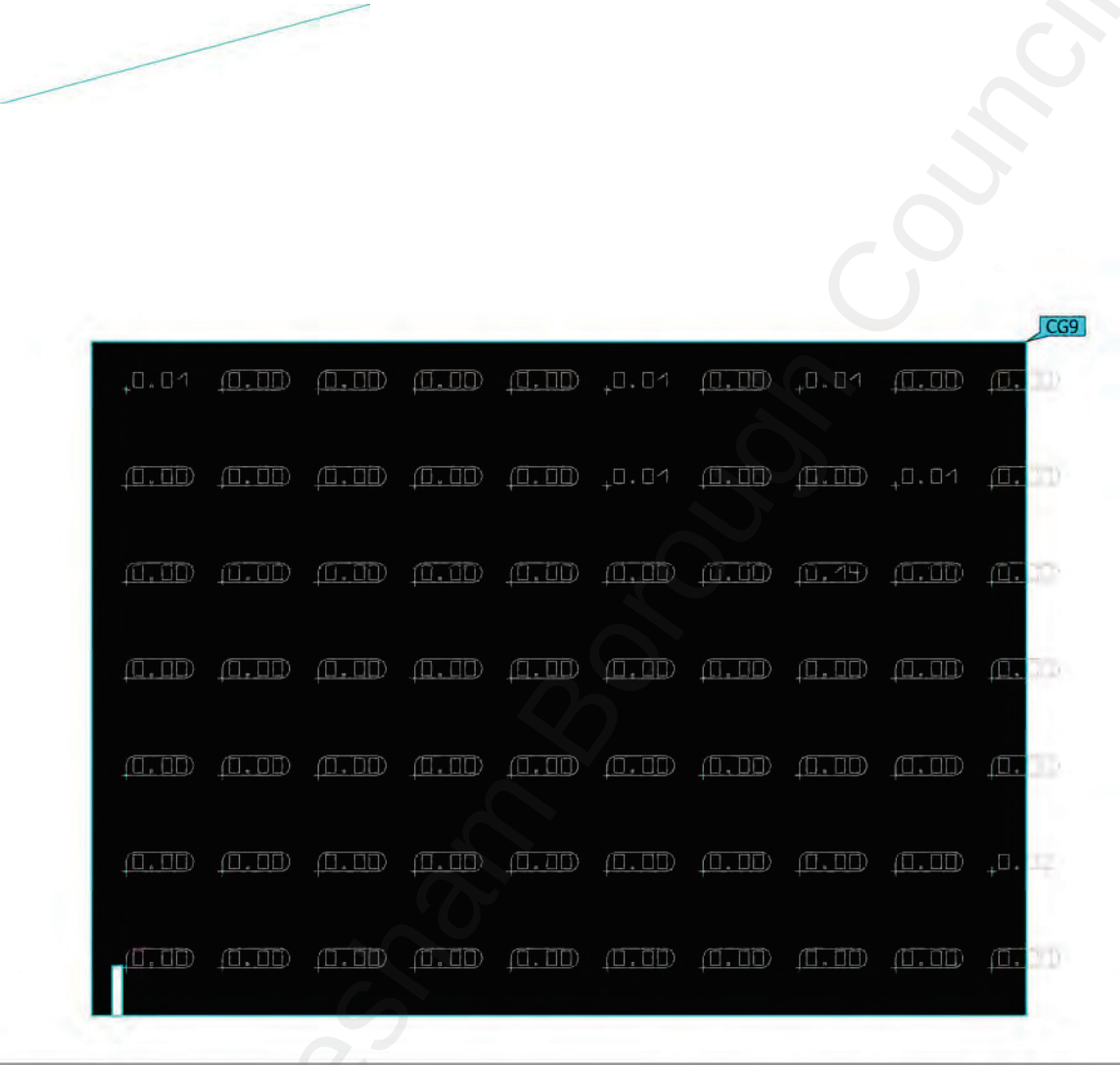


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 18 Garden Horizontal illuminance Height: 1.000 m	0.001 lx	0.000 lx	0.008 lx	-	-	CG8

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 16 Facade

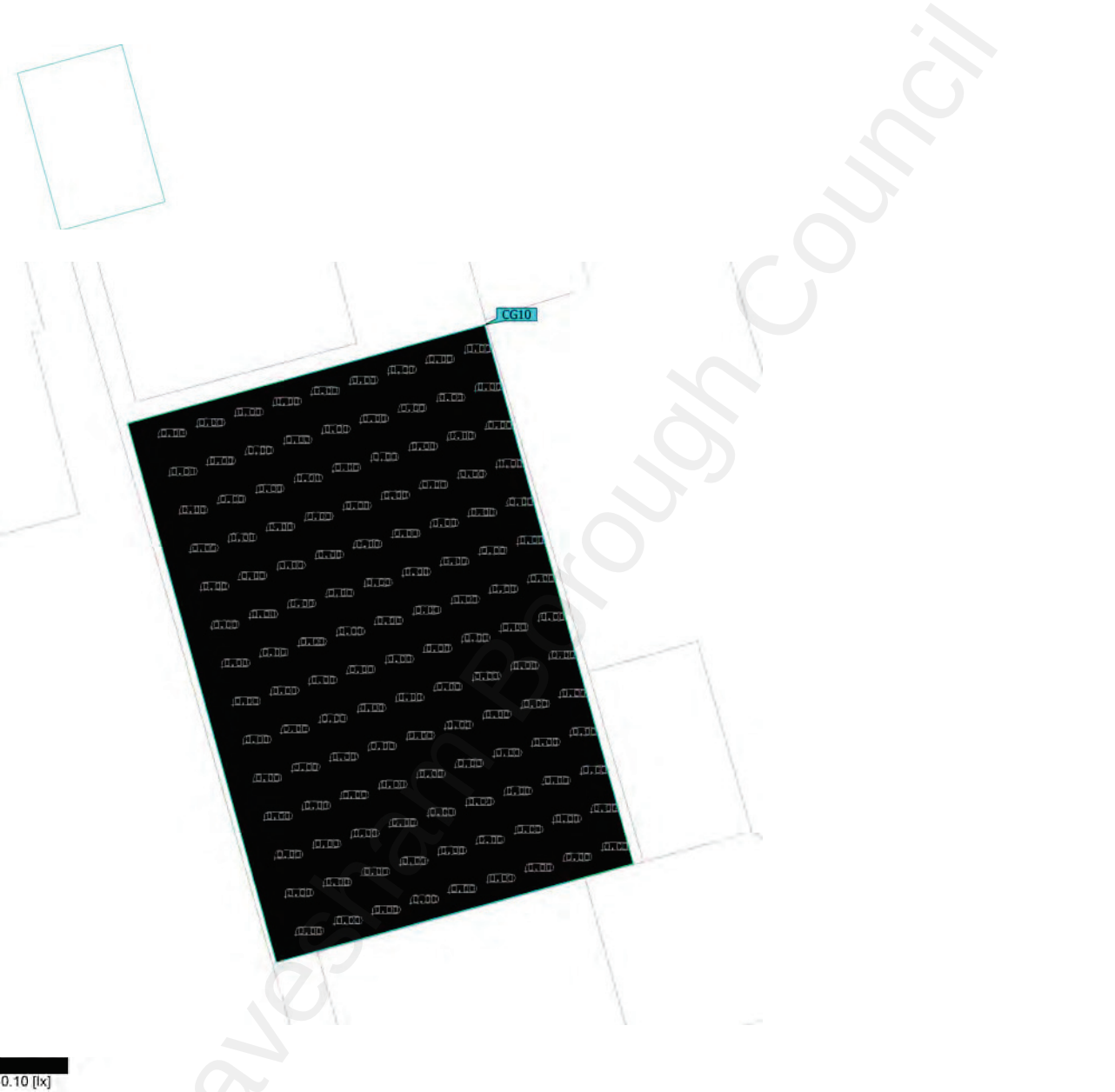


0.10 0.20 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 16 Facade Vertical illuminance Rotation: 285.5°, Height: 4.000 m	0.003 lx	0.000 lx	0.14 lx	-	0.00	CG9

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 16 Garden

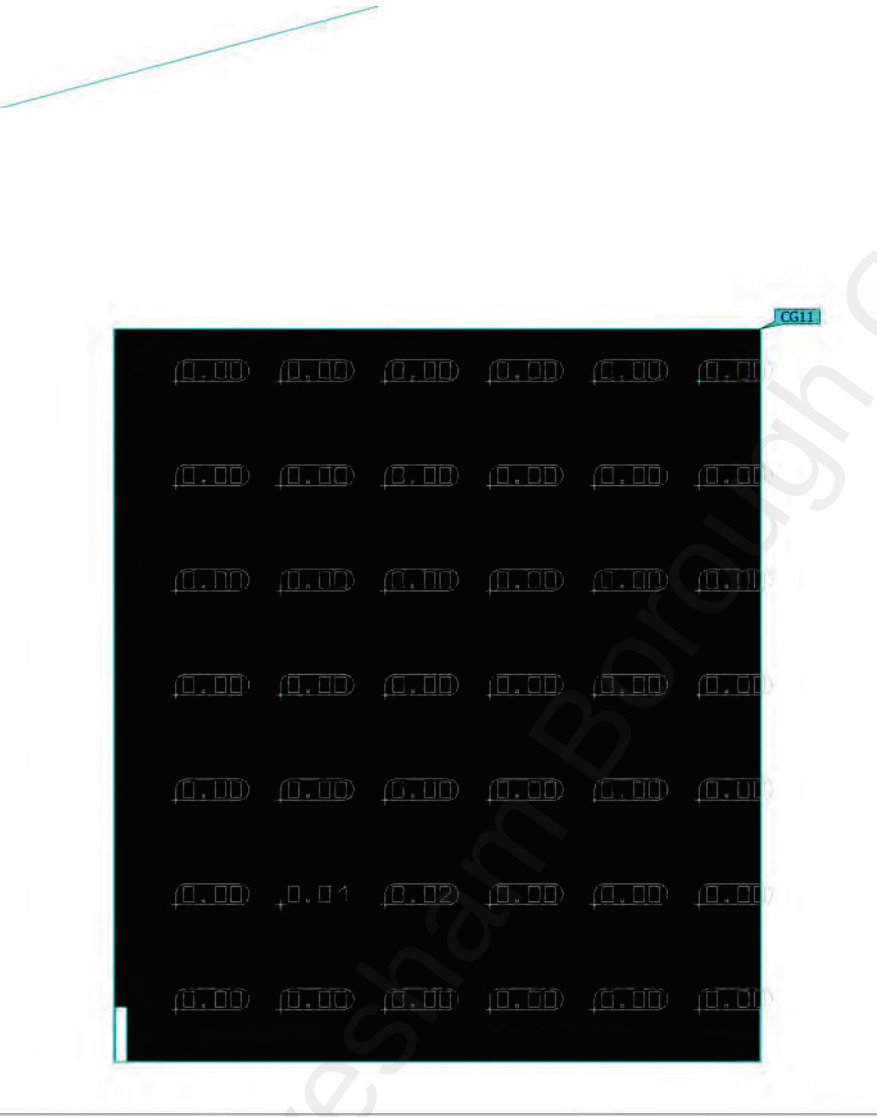


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 16 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.004 lx	-	-	CG10

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 14 Facade

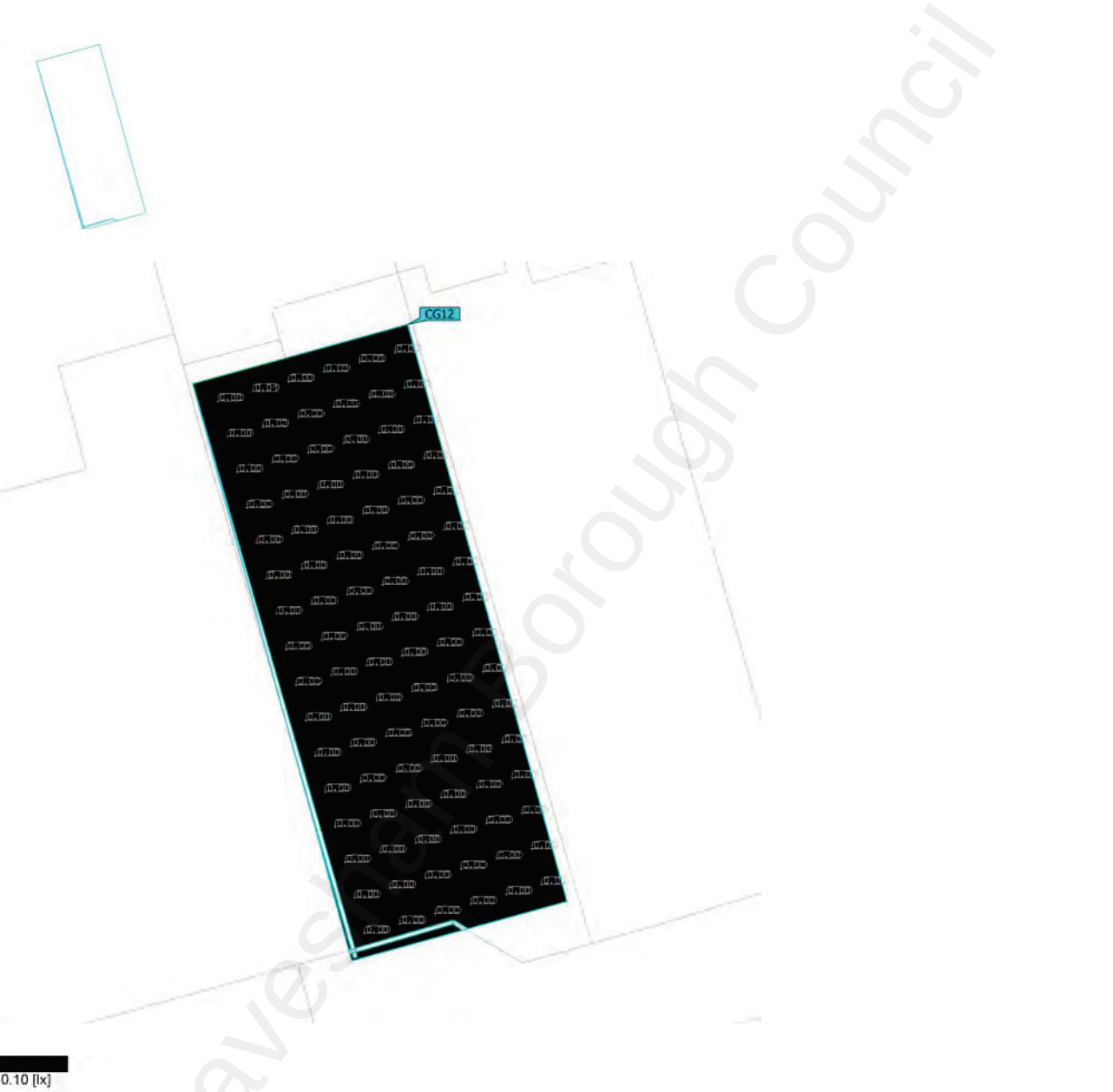


0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 14 Facade Vertical illuminance Rotation: 285.5°, Height: 4.000 m	0.001 lx	0.000 lx	0.019 lx	-	0.00	CG11

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 14 Garden

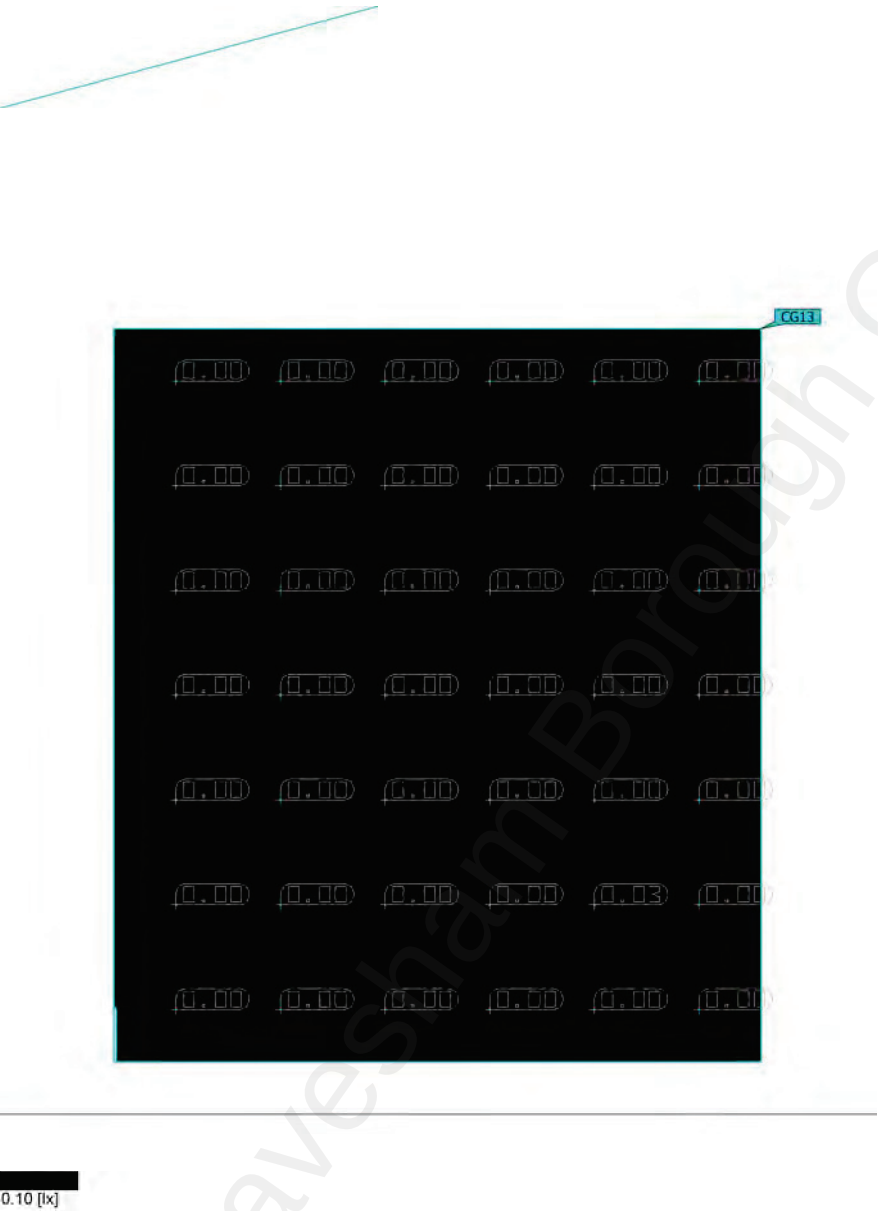


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 14 Garden Horizontal illuminance Height: 1.000 m	0.001 lx	0.000 lx	0.012 lx	-	0.00	CG12

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 12 Facade

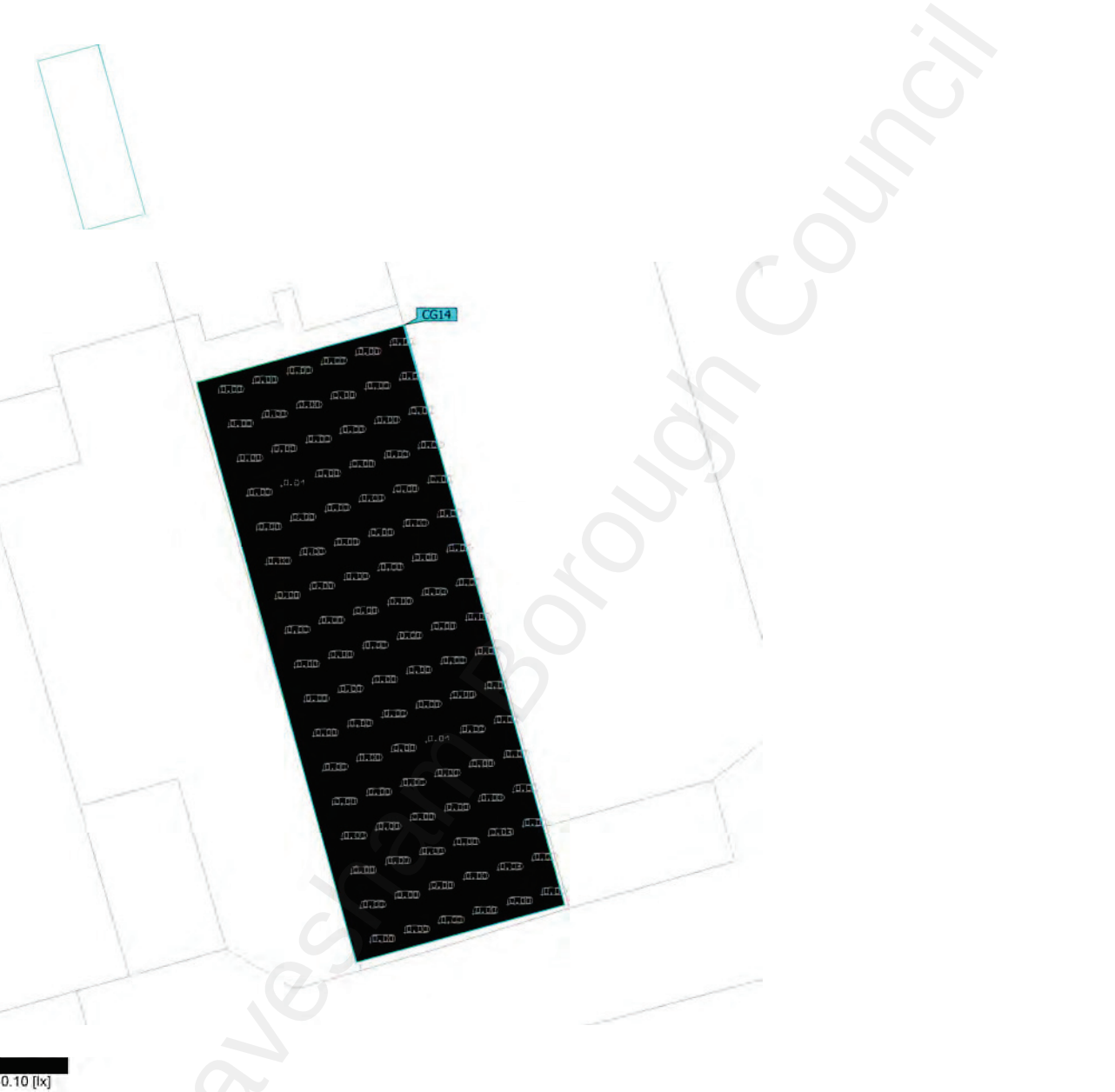


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 12 Facade Vertical illuminance Rotation: 285.5°, Height: 4.000 m	0.001 lx	0.000 lx	0.029 lx	-	0.00	CG13

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 12 Garden

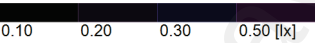
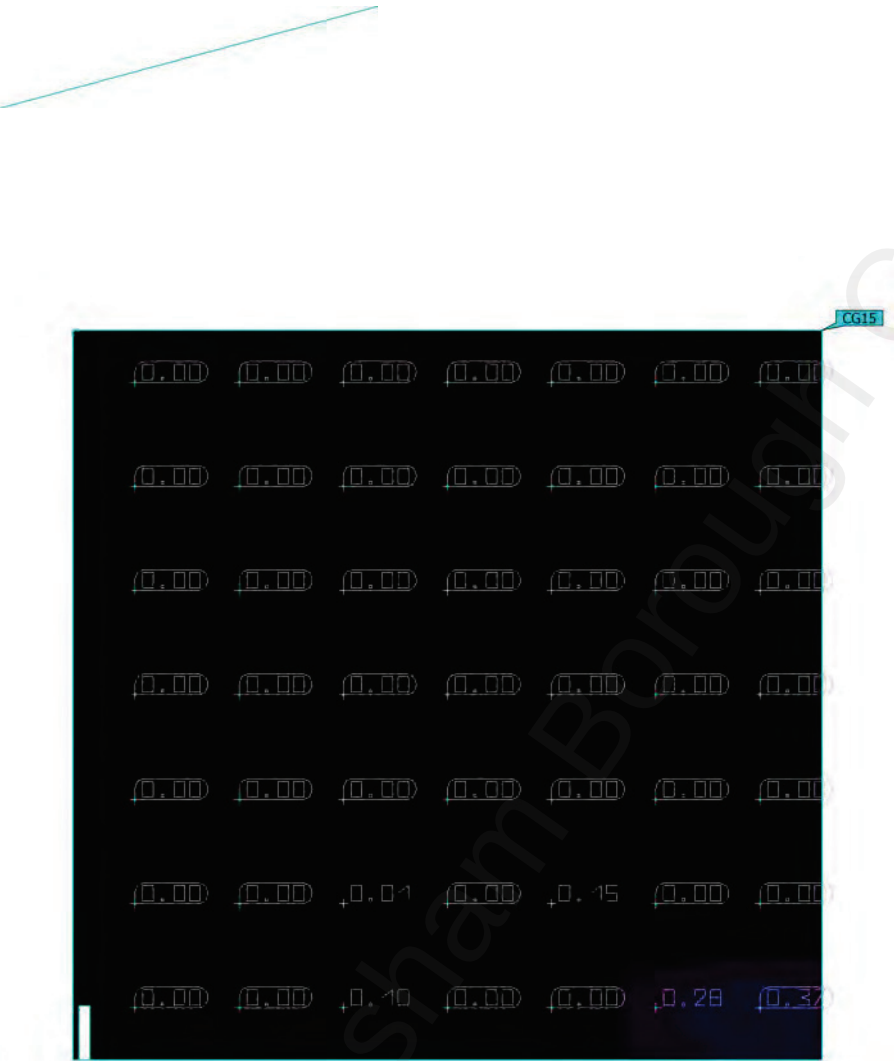


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 12 Garden Horizontal illuminance Height: 1.000 m	0.001 lx	0.000 lx	0.035 lx	-	0.00	CG14

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

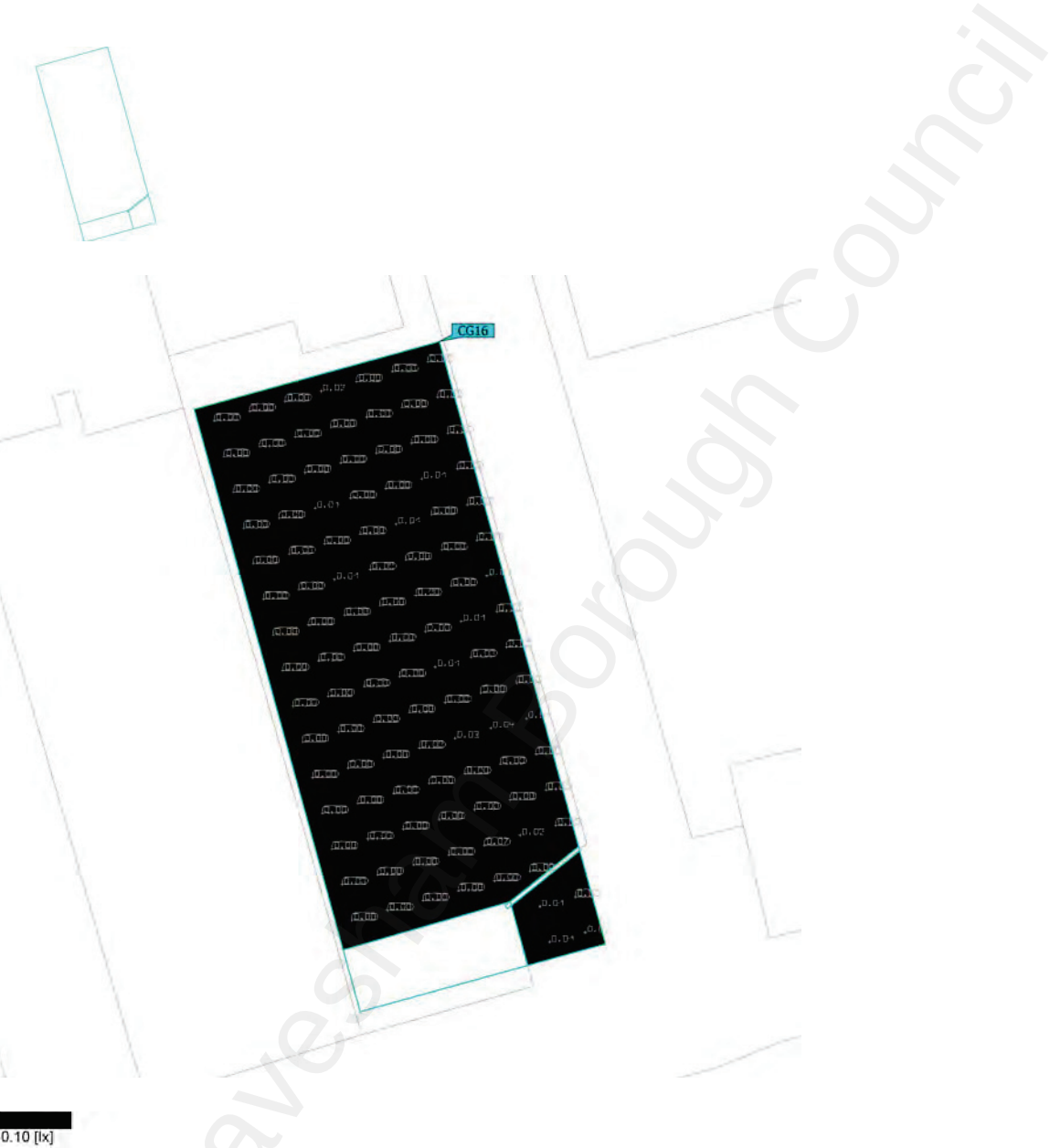
No. 10 Facade



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 10 Facade	0.019 lx	0.000 lx	0.37 lx	0.00	0.00	CG15
Vertical illuminance						
Rotation: 285.5°, Height: 4.000 m						

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 10 Garden

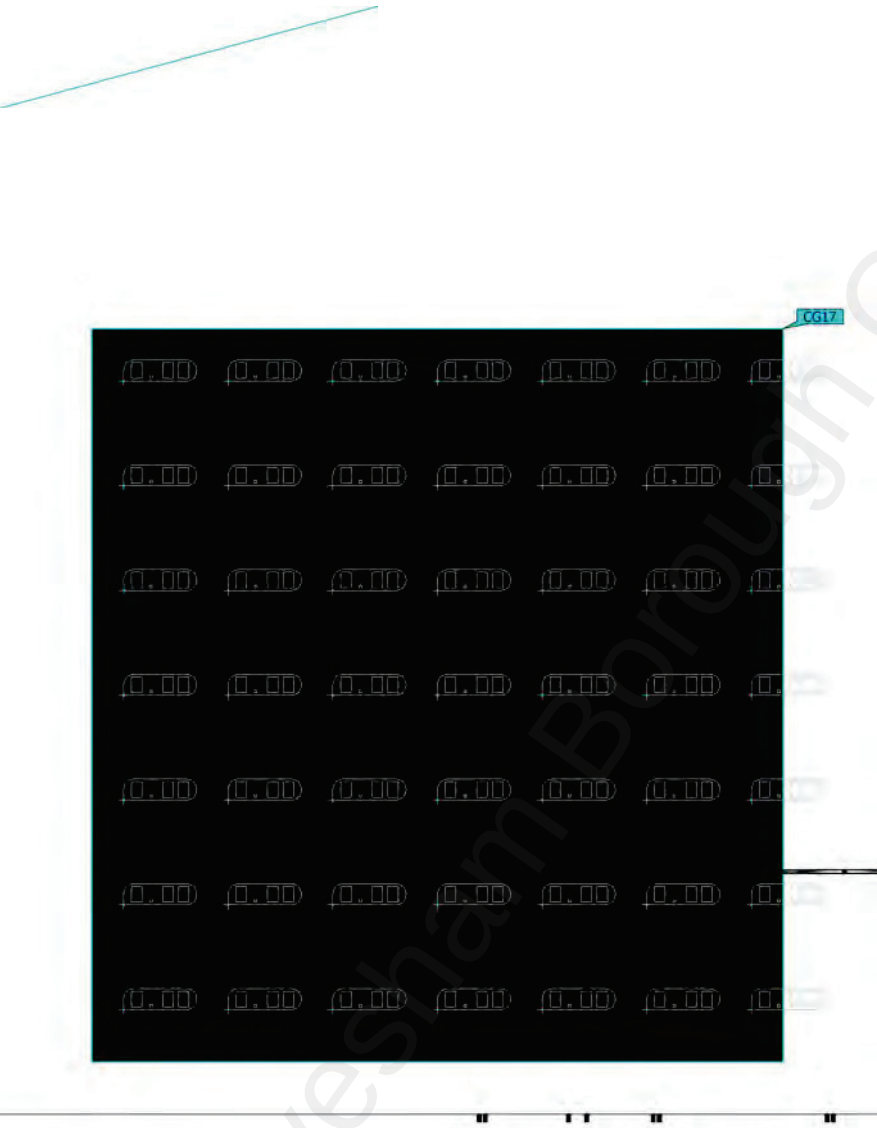


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 10 Garden Horizontal illuminance Height: 1.000 m	0.003 lx	0.000 lx	0.068 lx	-	0.00	CG16

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 8 Facade



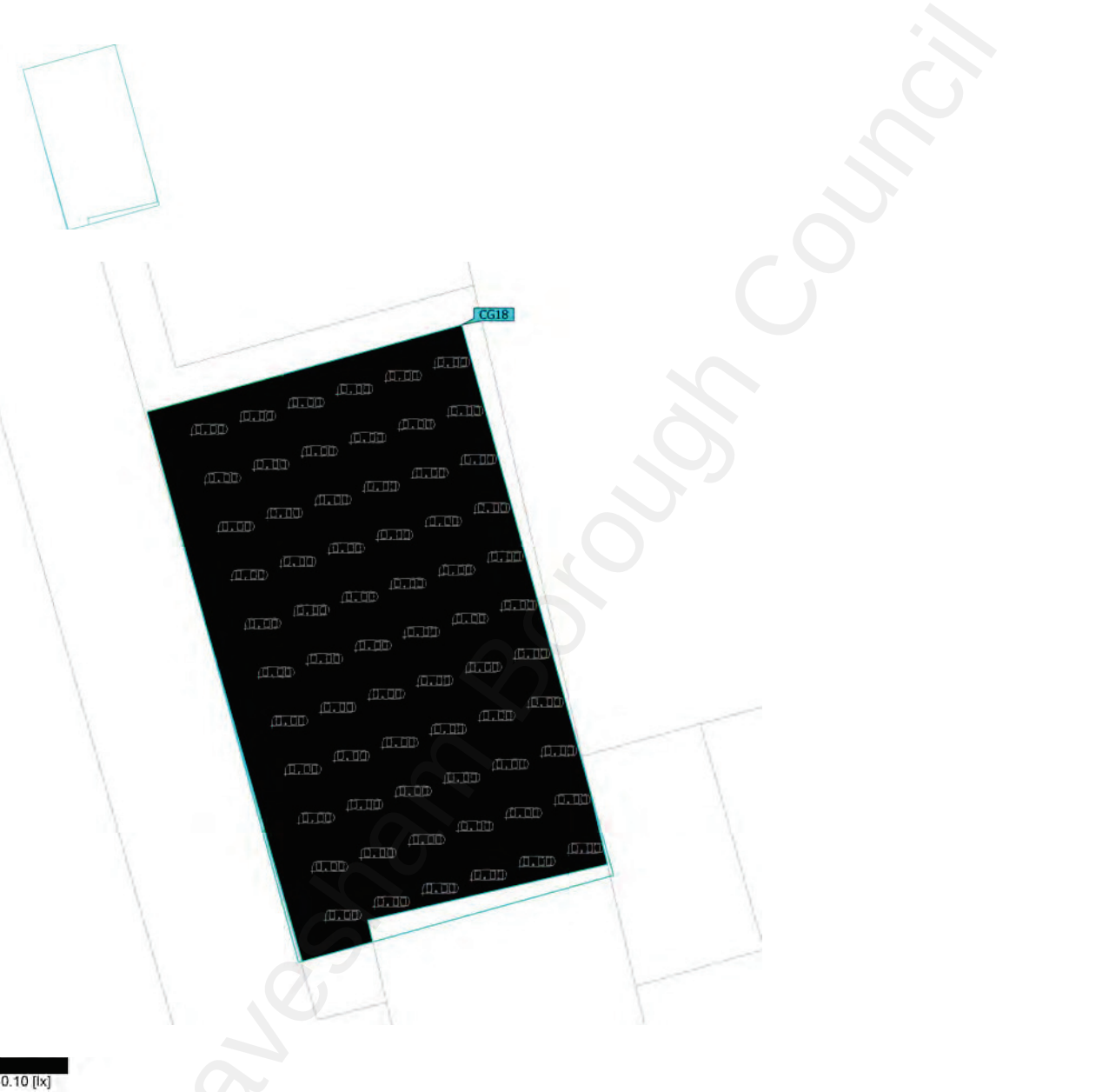
0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 8 Facade Vertical illuminance Rotation: 283.7°, Height: 4.000 m	0.001 lx	0.000 lx	0.001 lx	-	-	CG17

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 8 Garden

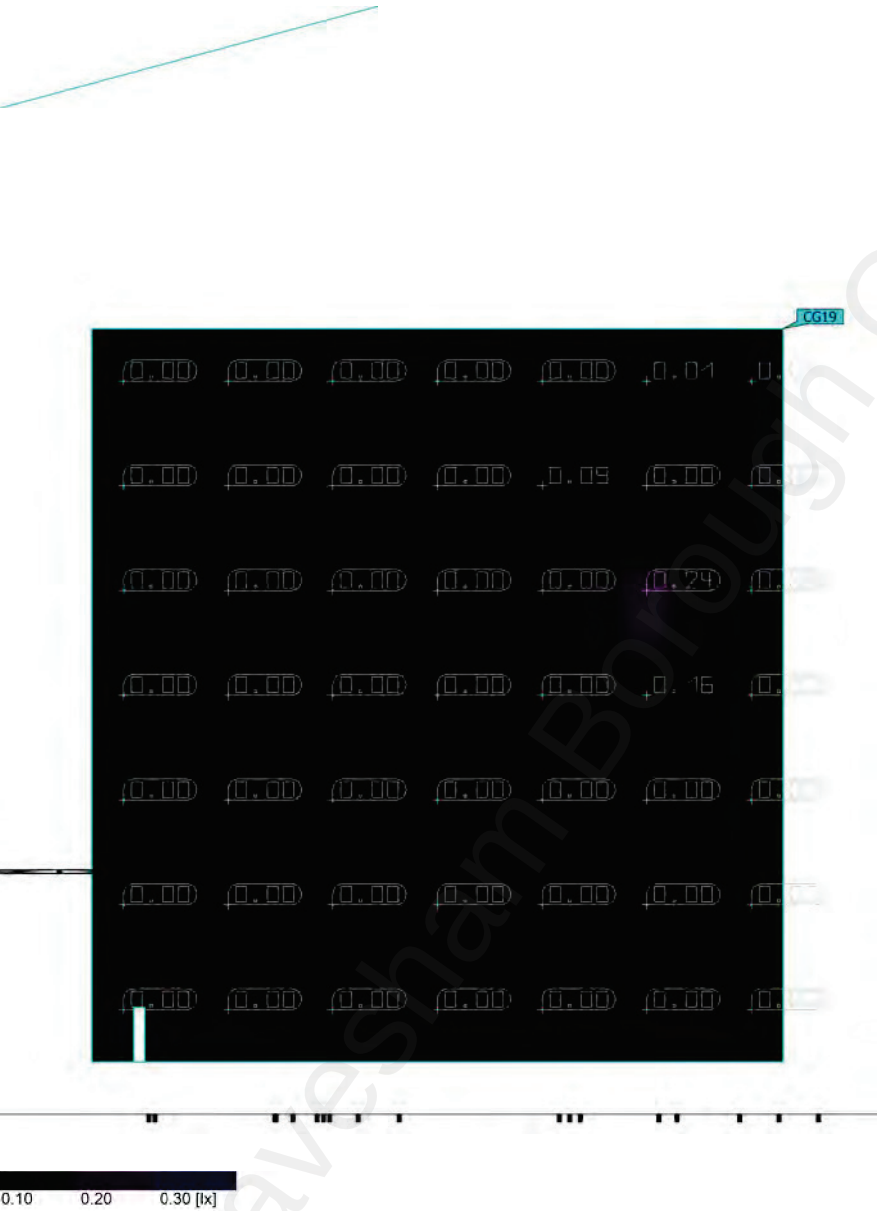


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 8 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.000 lx	-	-	CG18

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 6 Facade

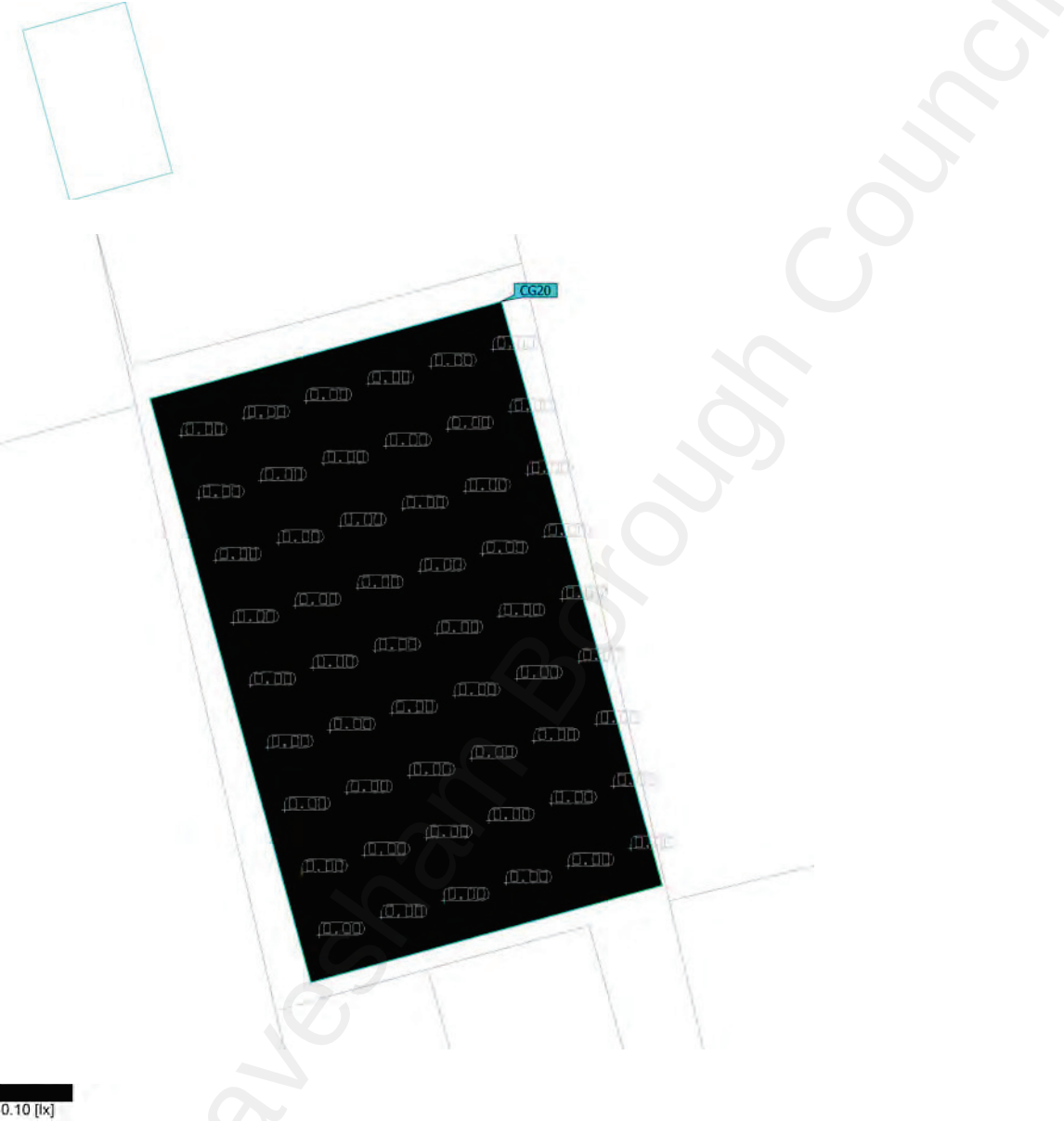


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 6 Facade Vertical illuminance Rotation: 283.7°, Height: 4.000 m	0.011 lx	0.000 lx	0.24 lx	0.00	0.00	CG19

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 6 Garden

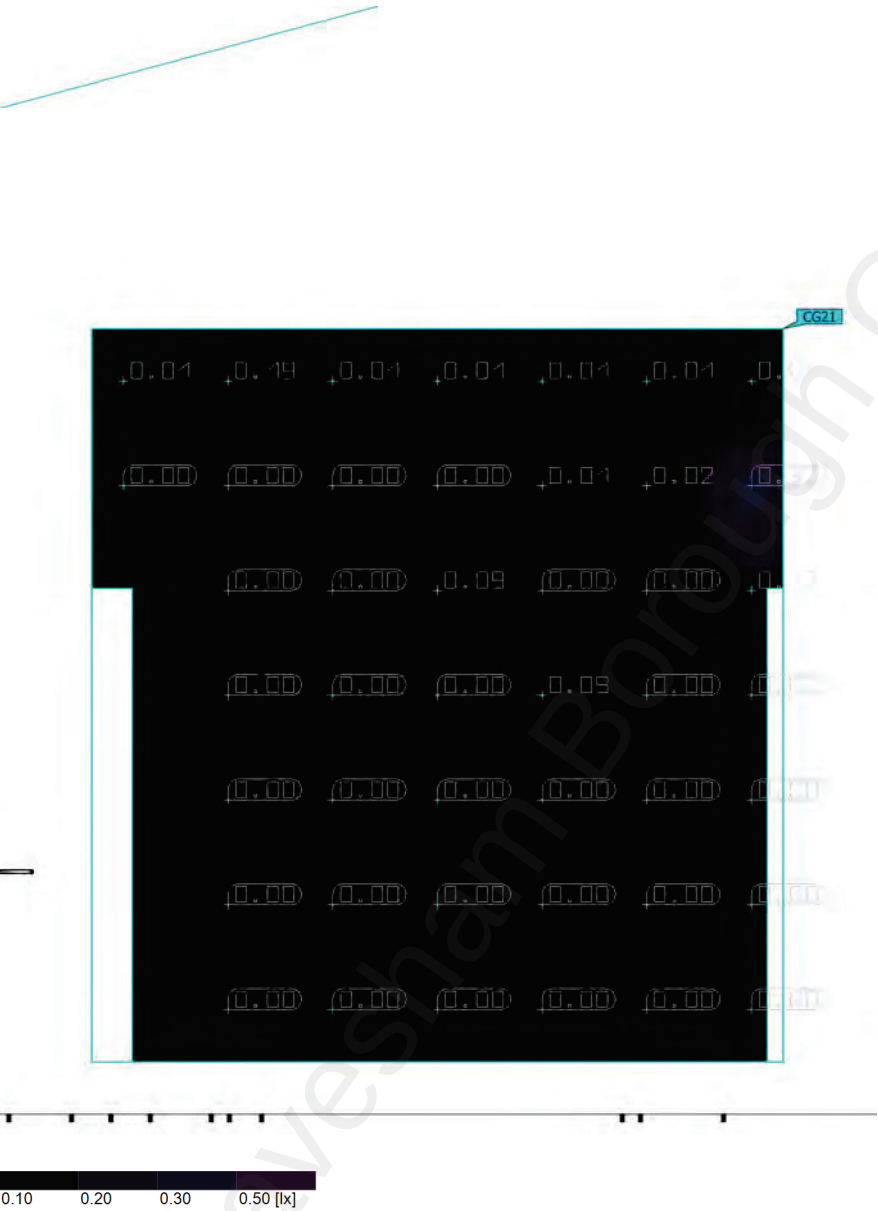


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 6 Garden Horizontal illuminance Height: 1.000 m	0.001 lx	0.000 lx	0.011 lx	-	0.00	CG20

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 4 Facade

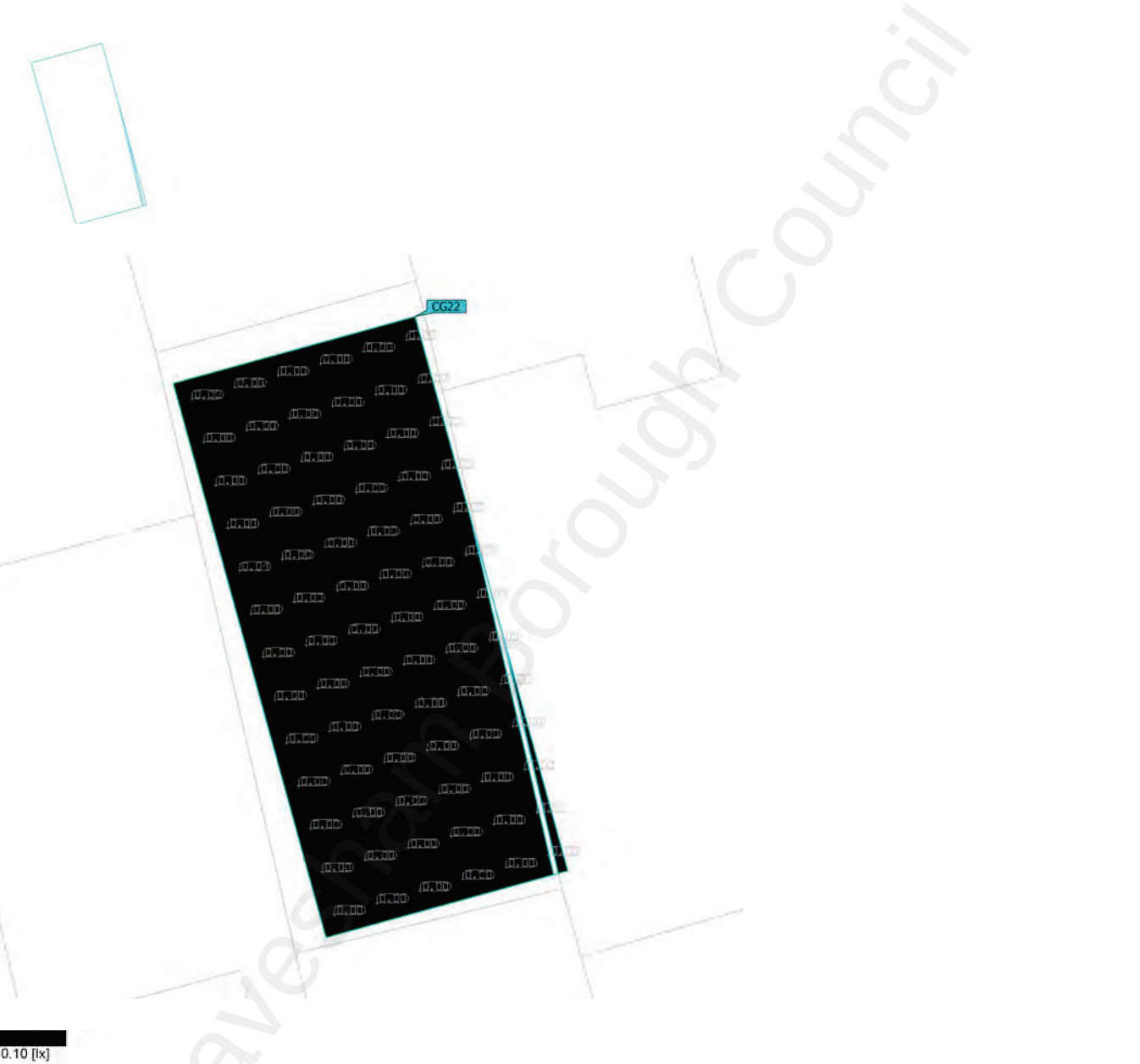


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 4 Facade Vertical illuminance Rotation: 283.7°, Height: 4.000 m	0.022 lx	0.000 lx	0.32 lx	0.00	0.00	CG21

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 4 Garden

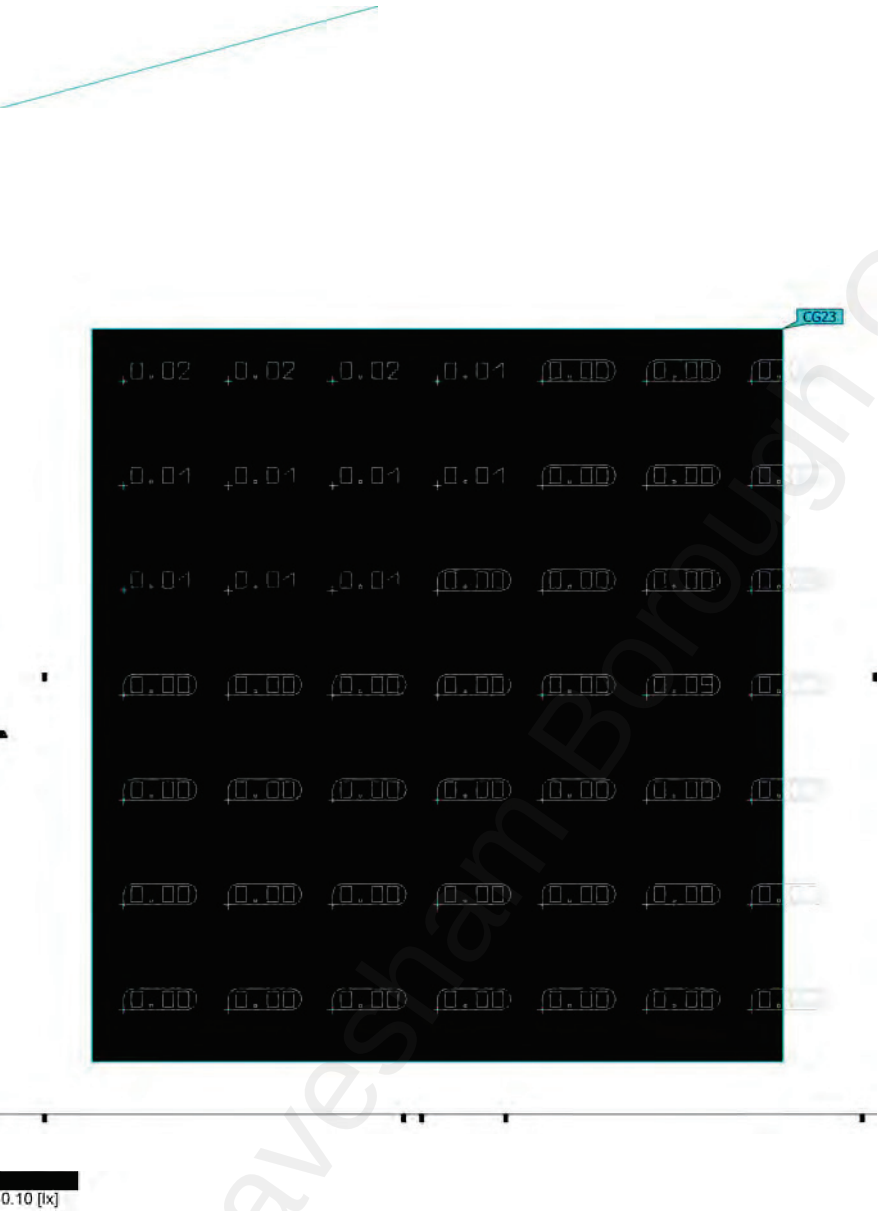


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 4 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.005 lx	-	-	CG22

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

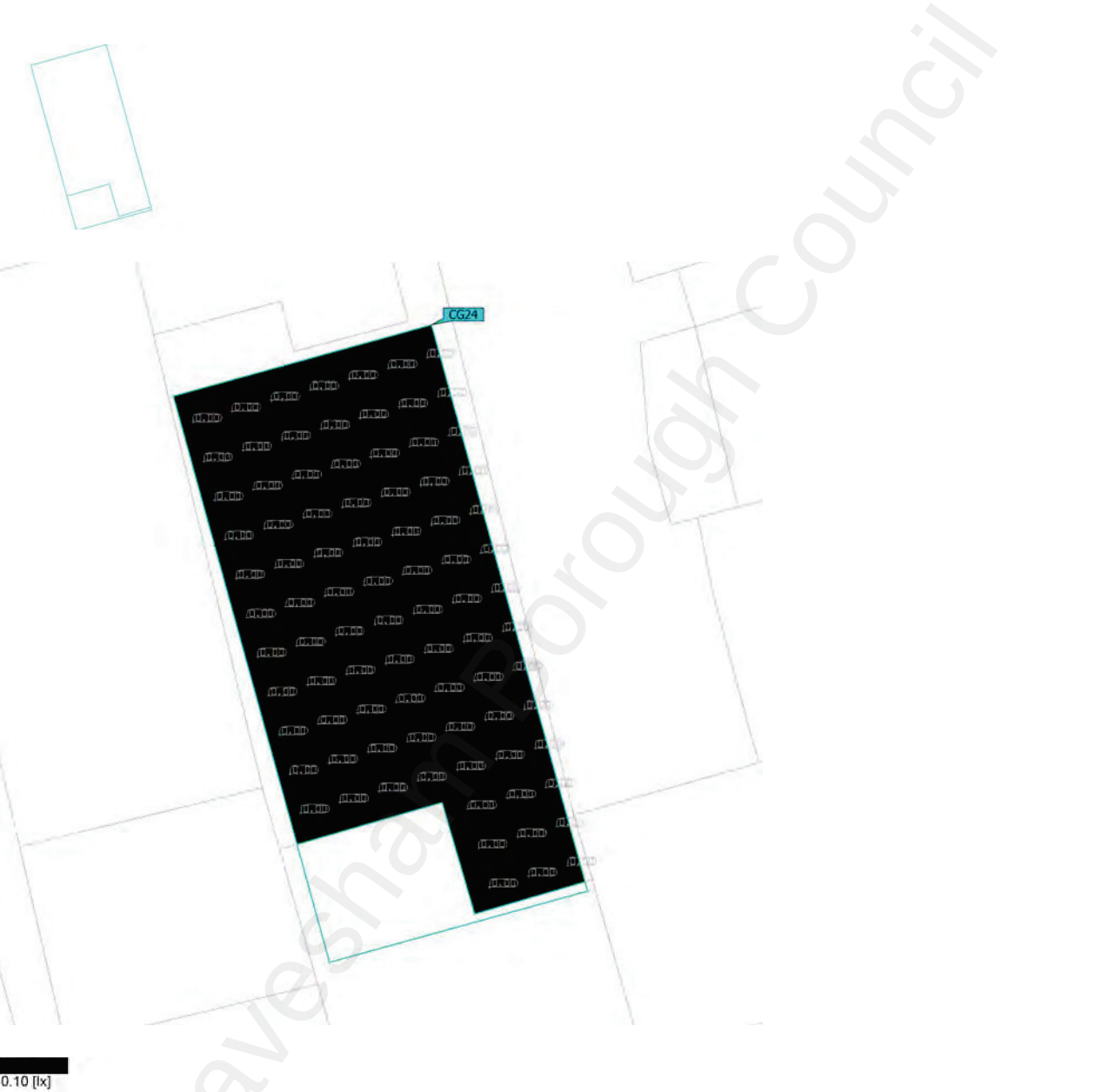
No. 2 Facade



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 2 Facade Vertical illuminance Rotation: 283.7°, Height: 4.000 m	0.004 lx	0.000 lx	0.087 lx	-	0.00	CG23

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 2 Garden

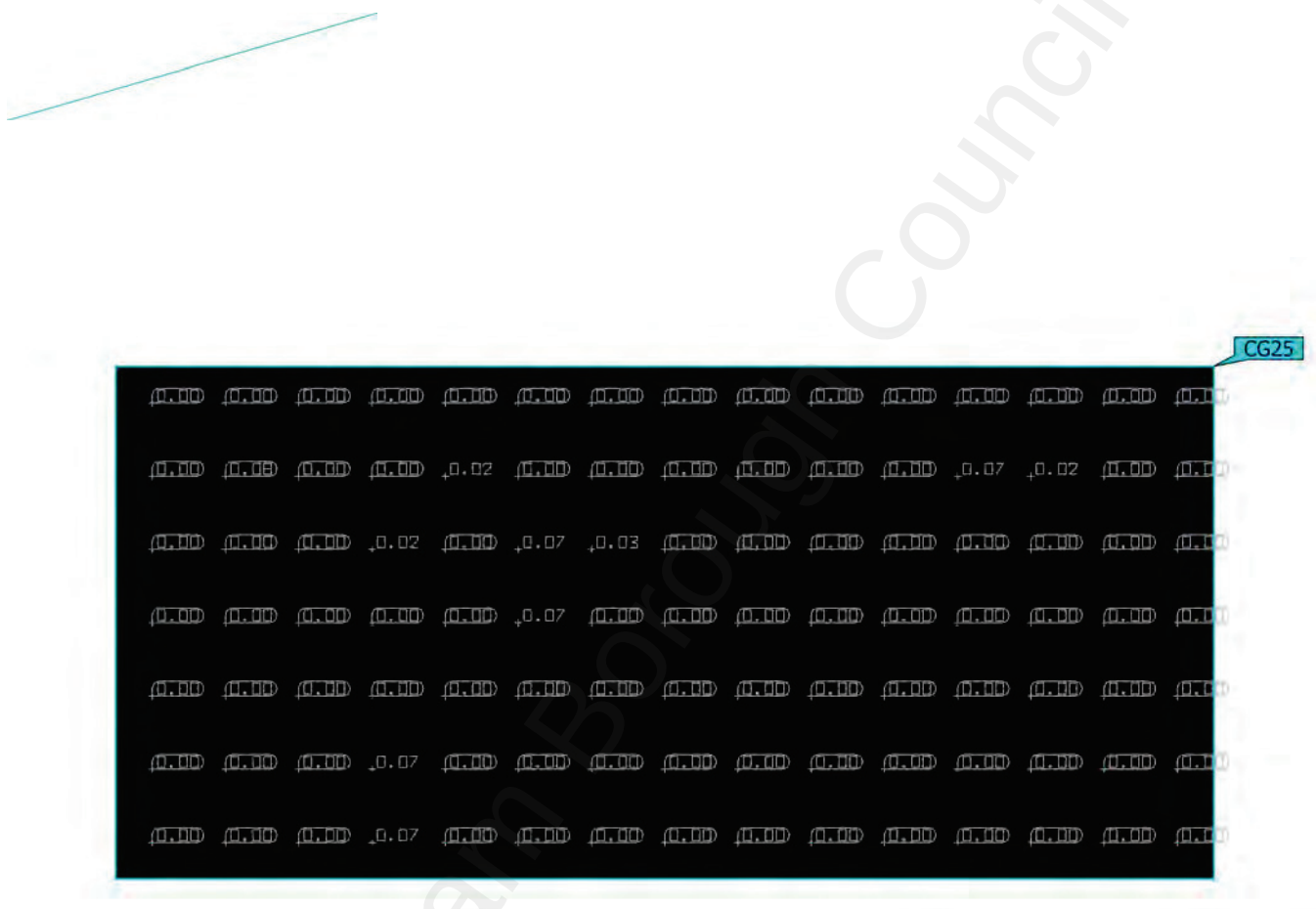


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 2 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.000 lx	-	-	CG24

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 183 Facade

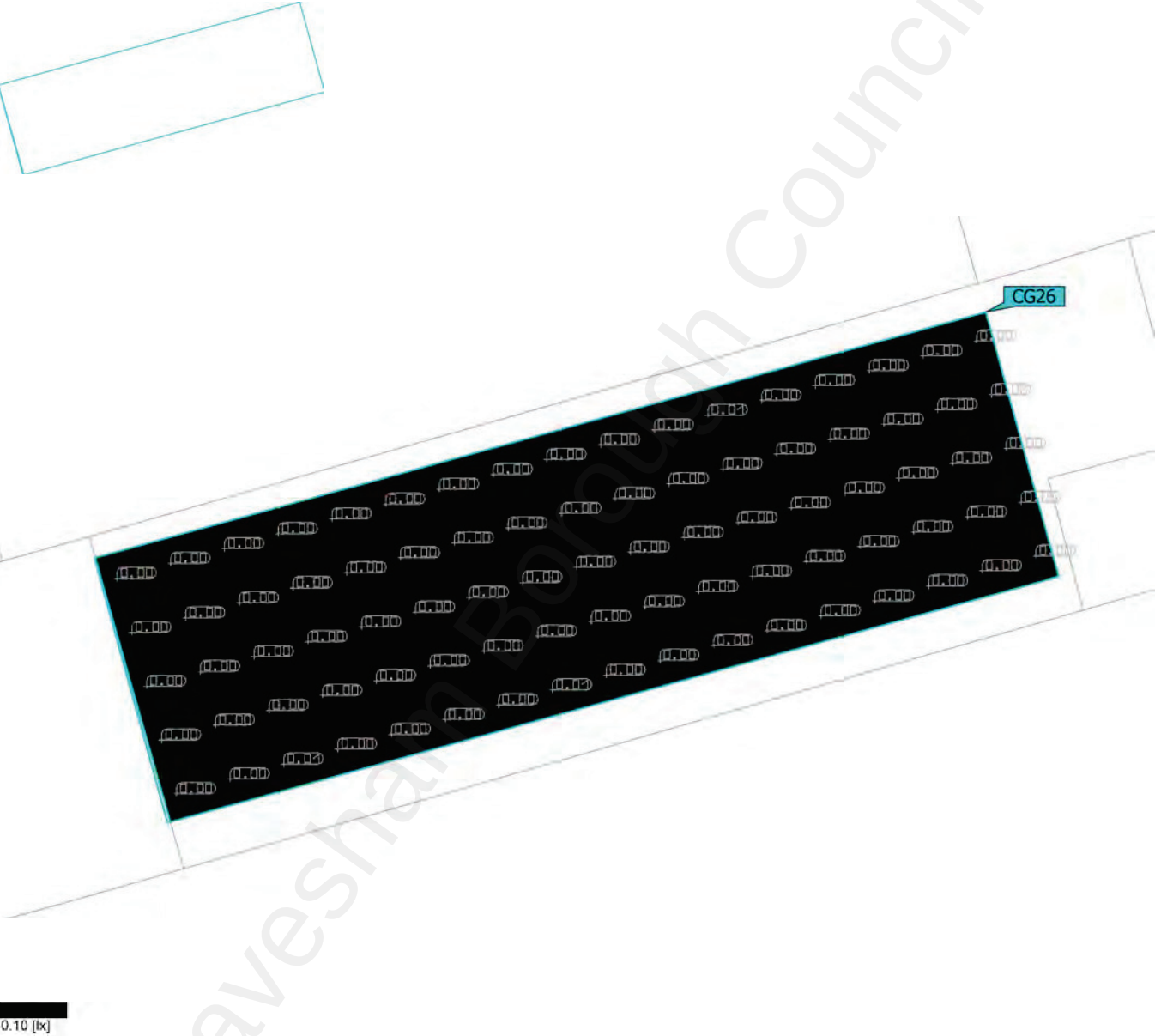


0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 183 Facade Vertical illuminance Rotation: 270.0°, Height: 4.000 m	0.005 lx	0.000 lx	0.075 lx	-	0.00	CG25

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 183 Garden

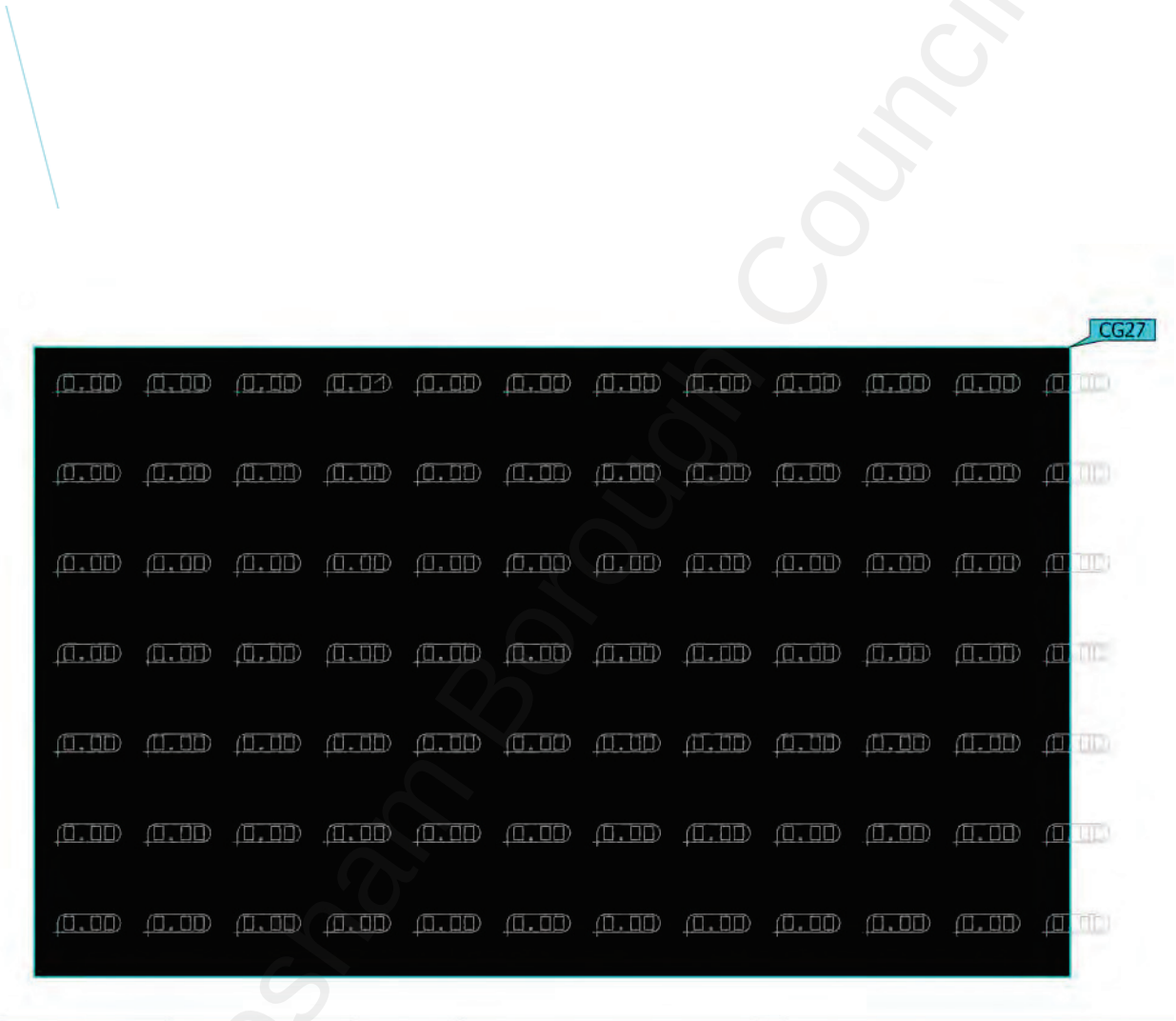


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 183 Garden Horizontal illuminance Height: 1.000 m	0.001 lx	0.000 lx	0.012 lx	-	0.00	CG26

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 166 Facade

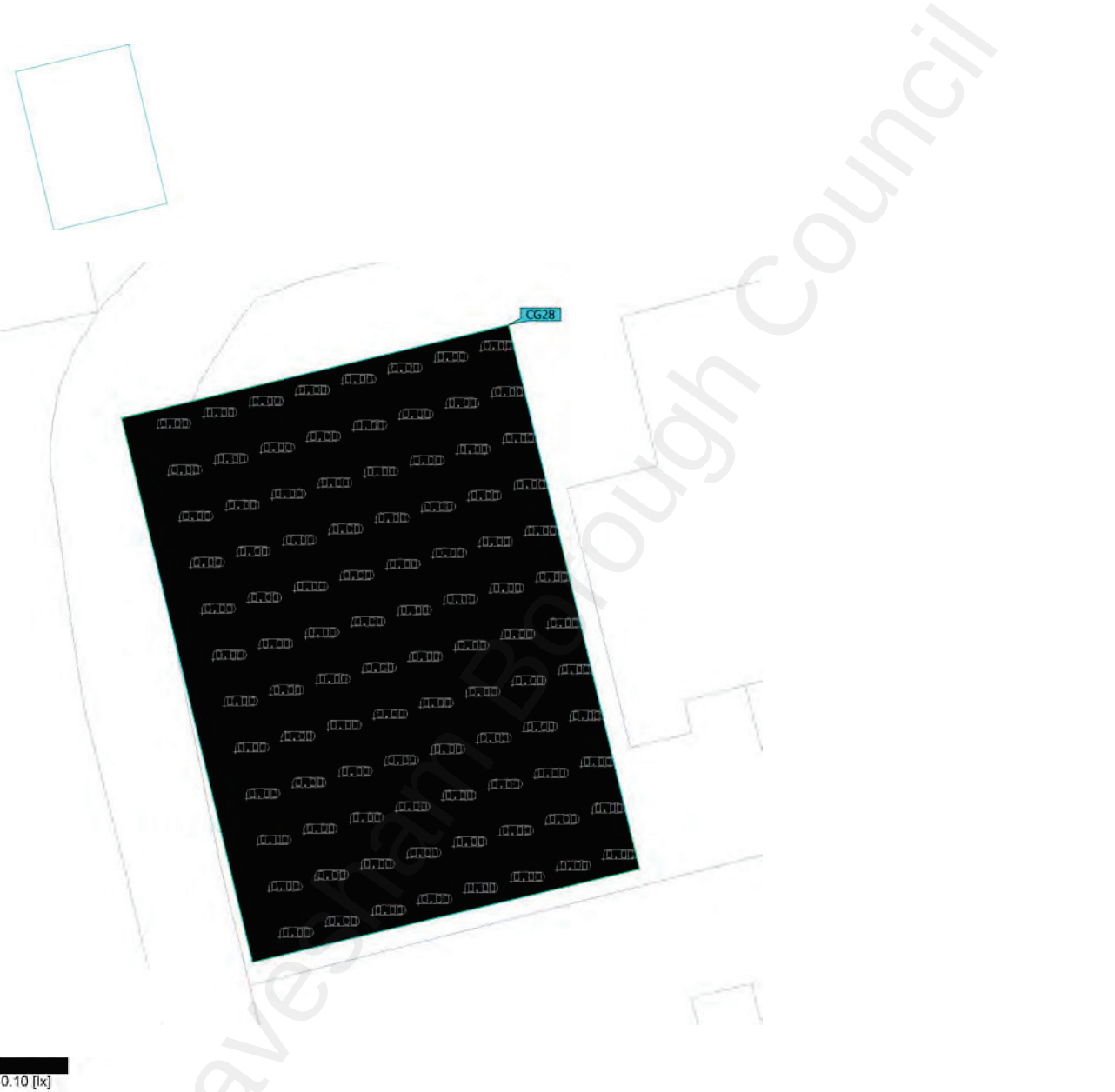


0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 166 Facade Vertical illuminance Rotation: 239.2°, Height: 4.000 m	0.000 lx	0.000 lx	0.005 lx	-	-	CG27

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 166 Garden

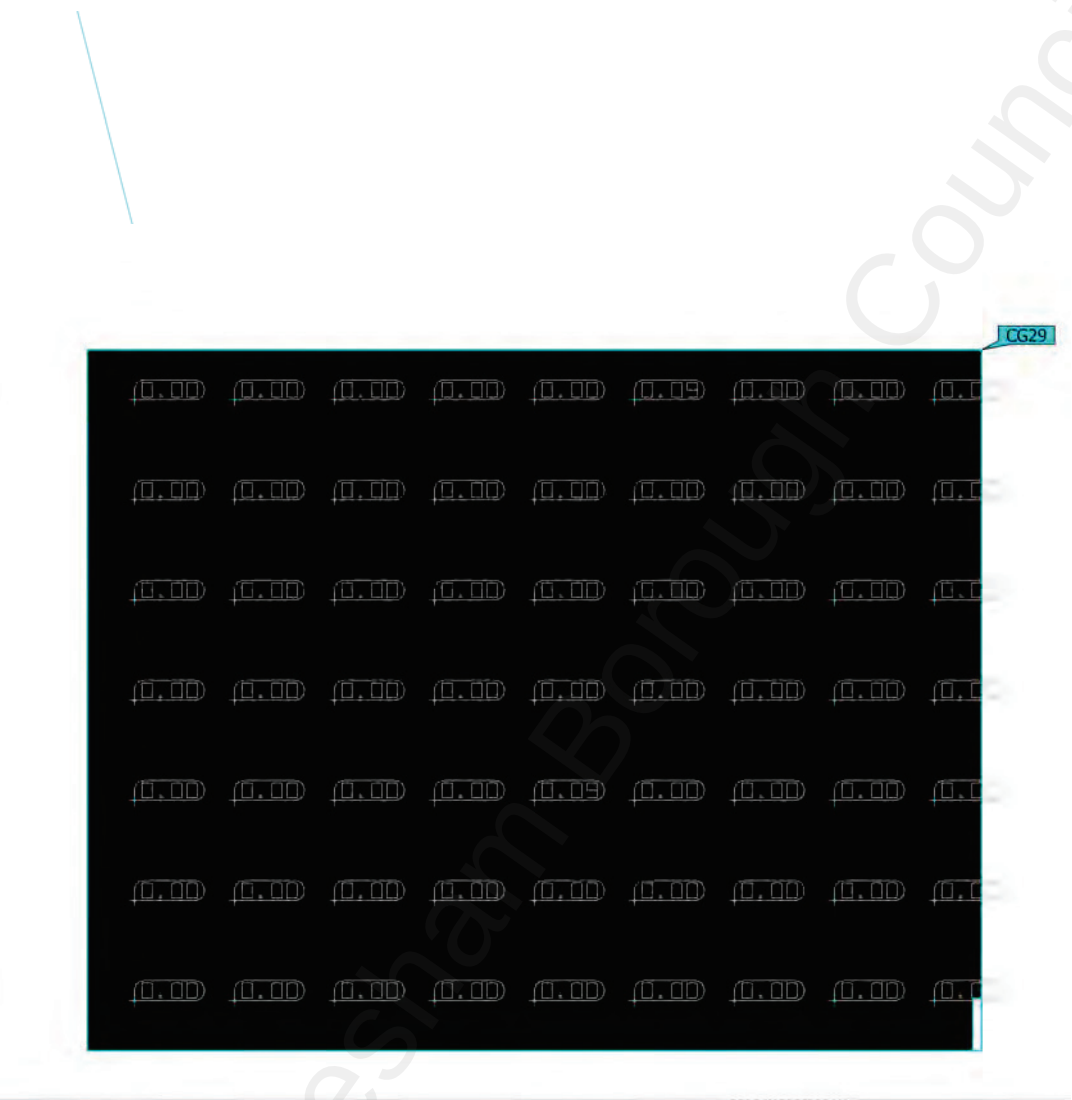


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 166 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.002 lx	-	-	CG28

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 168 Facade

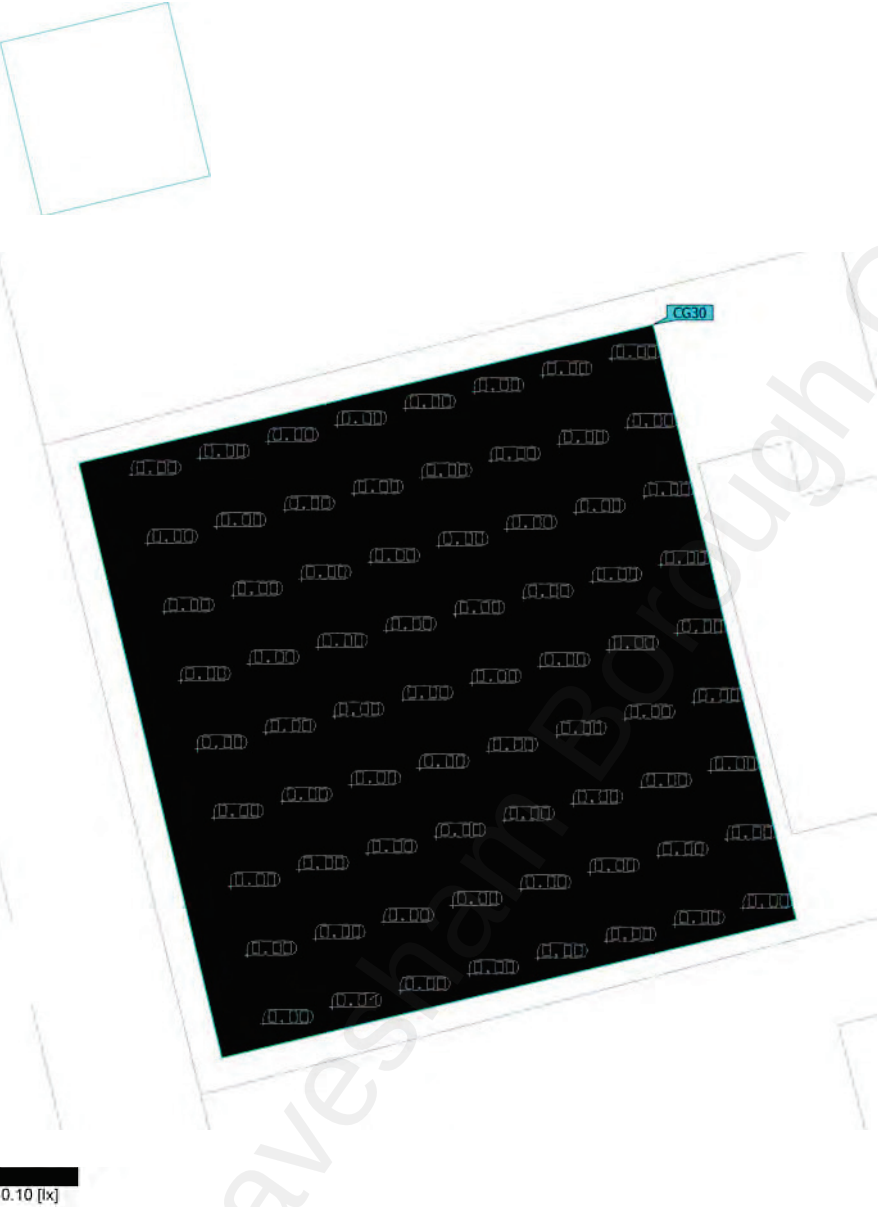


0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 168 Facade Vertical illuminance Rotation: 239.2°, Height: 4.000 m	0.003 lx	0.000 lx	0.088 lx	-	0.00	CG29

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

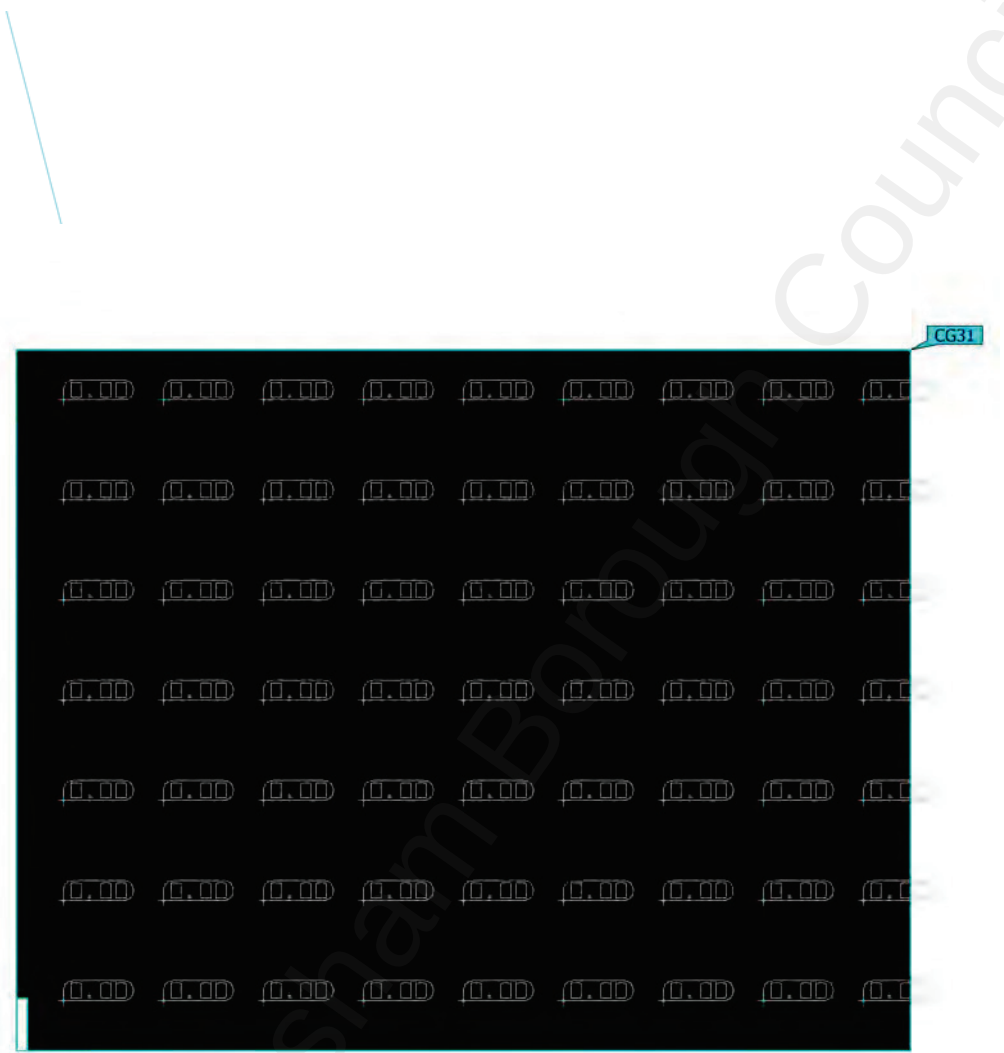
Site 1 (Light scene 1)
No. 168 Garden



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 168 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.006 lx	-	-	CG30

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 170 Facade



0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 170 Facade Vertical illuminance Rotation: 239.2°, Height: 4.000 m	0.000 lx	0.000 lx	0.000 lx	-	-	CG31

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 170 Garden

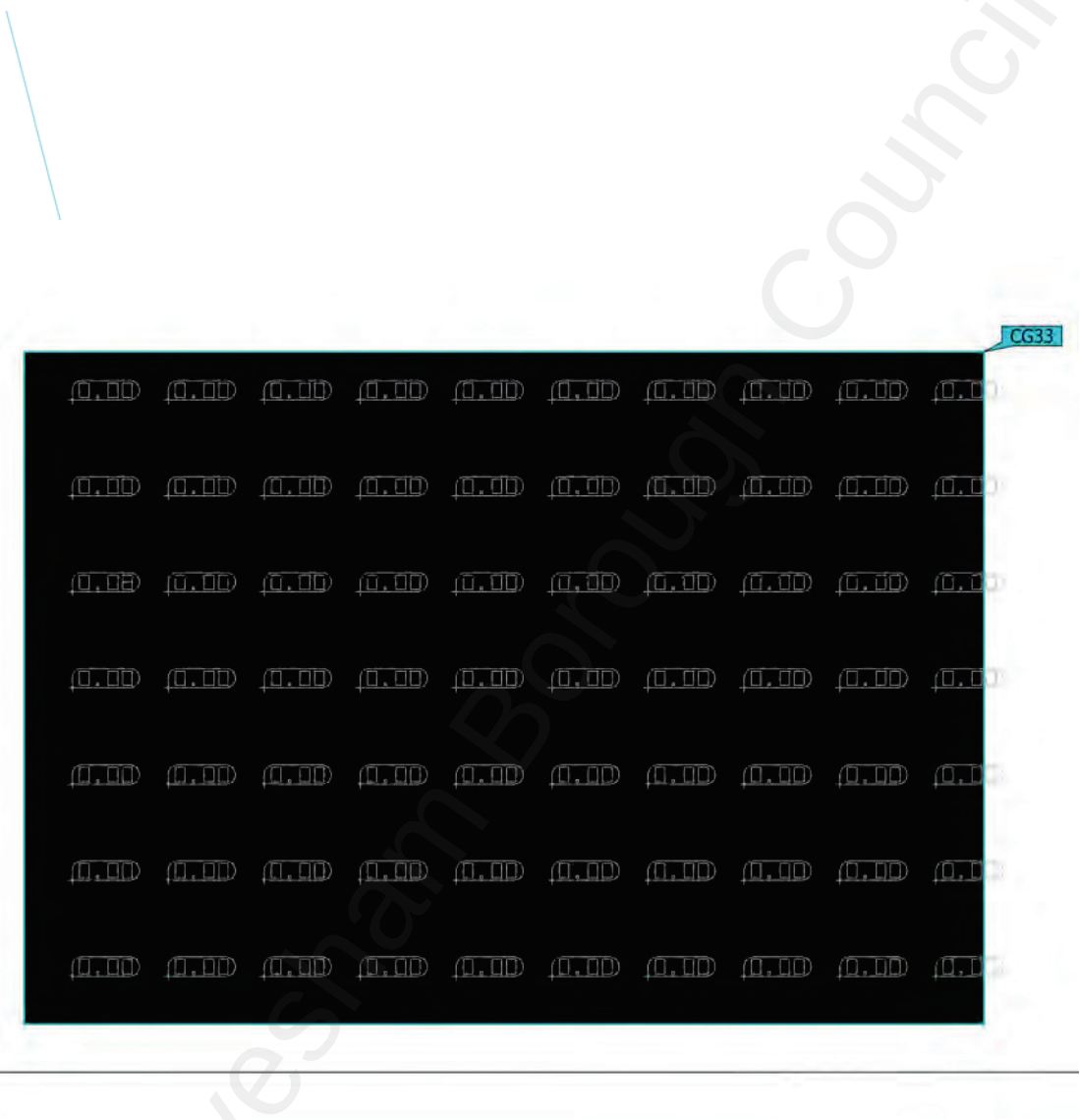


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 170 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.006 lx	-	-	CG32

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 170a Facade



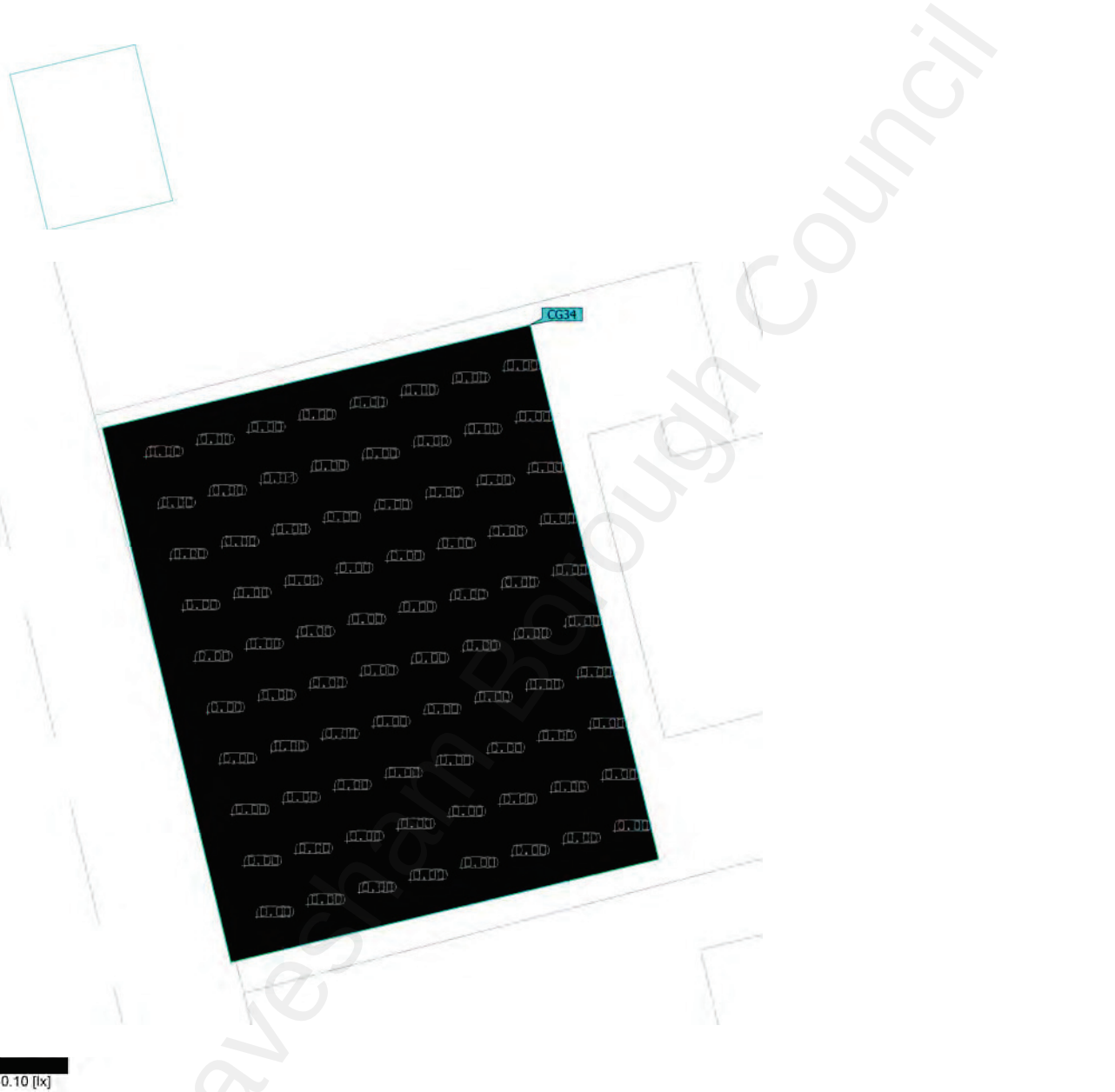
0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 170a Facade Vertical illuminance Rotation: 239.2°, Height: 4.000 m	0.001 lx	0.000 lx	0.084 lx	-	0.00	CG33

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 170a Garden

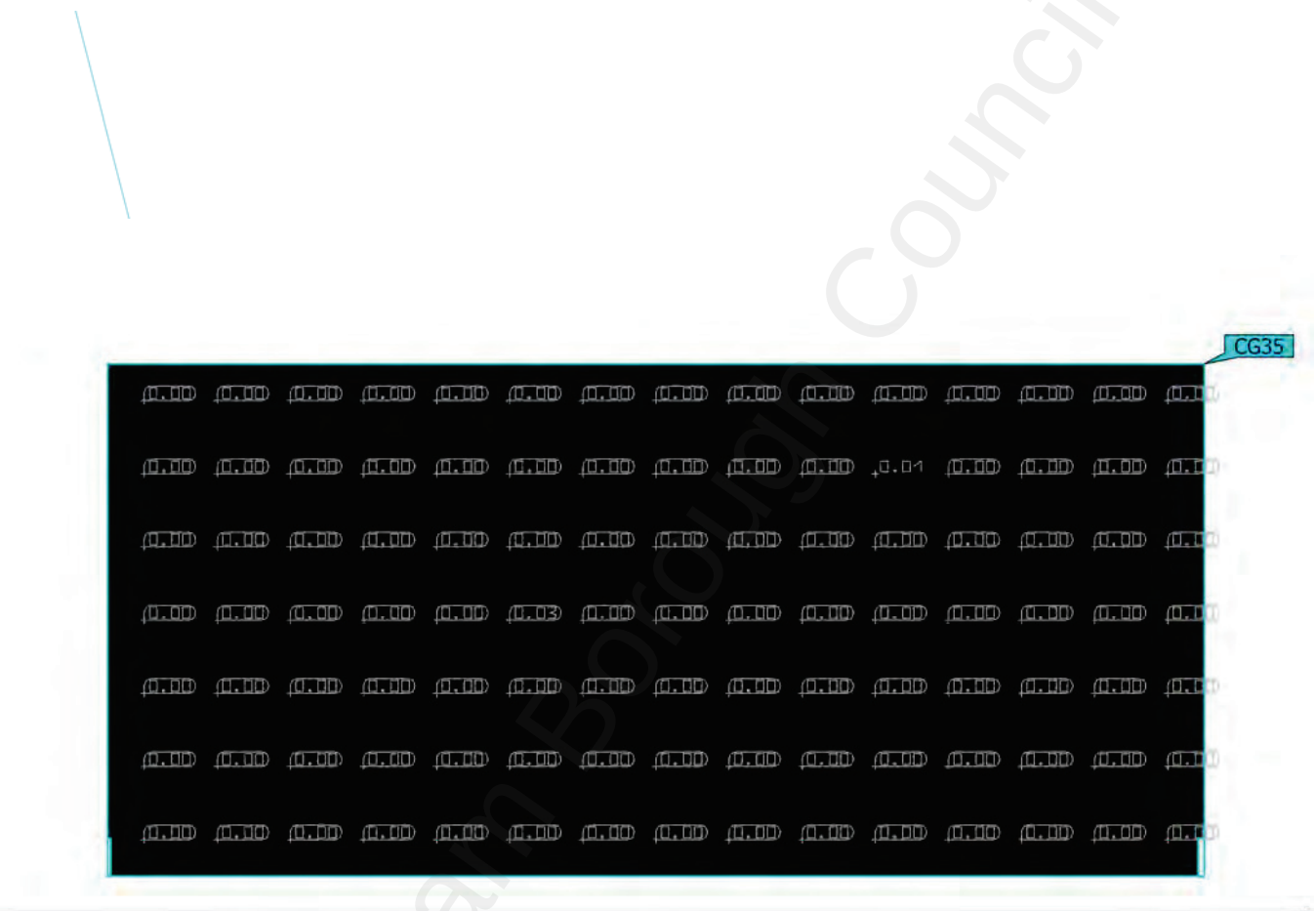


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 170a Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.006 lx	-	-	CG34

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 172 Facade

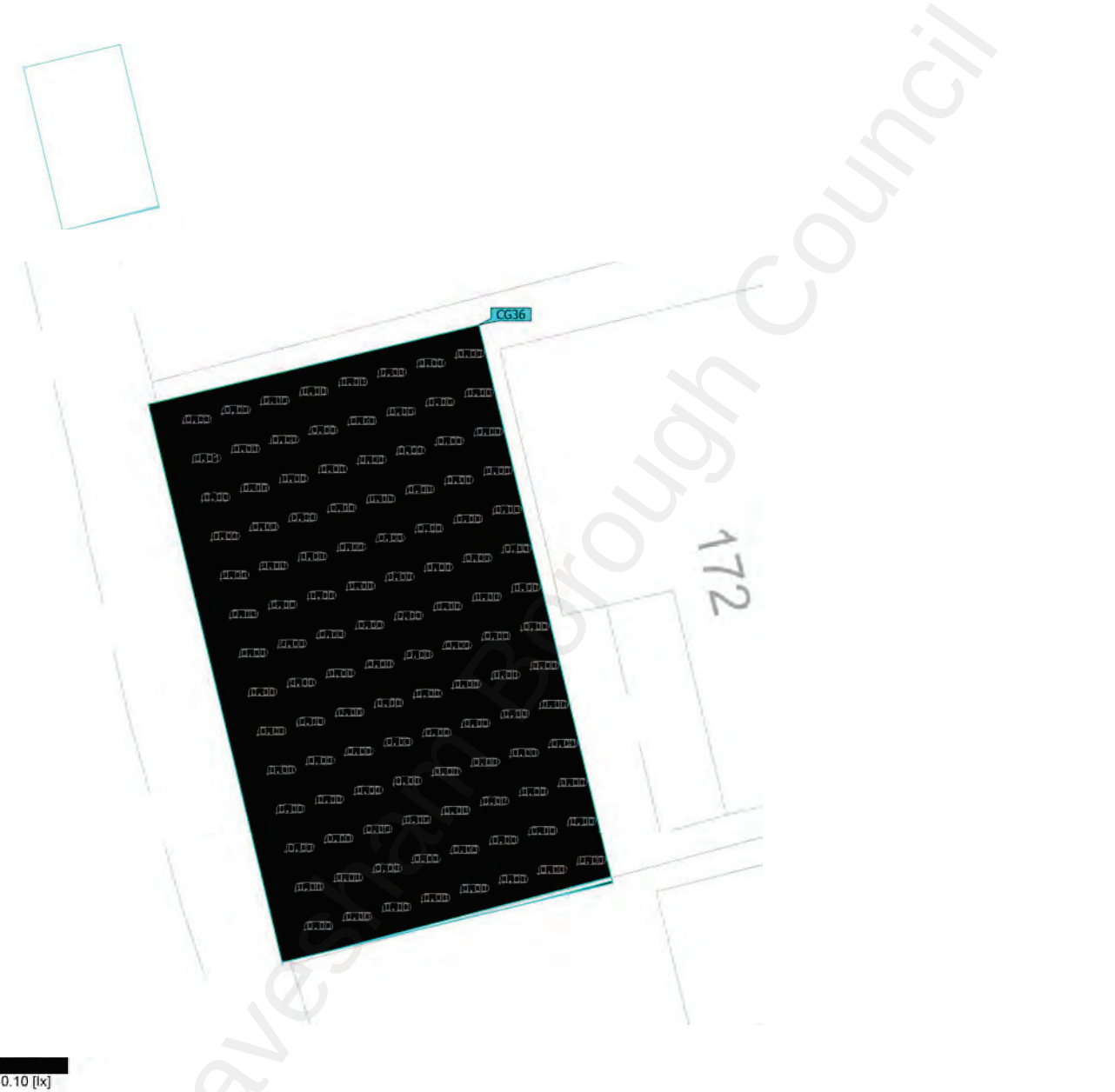


0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 172 Facade Vertical illuminance Rotation: 239.2°, Height: 4.000 m	0.001 lx	0.000 lx	0.025 lx	-	0.00	CG35

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

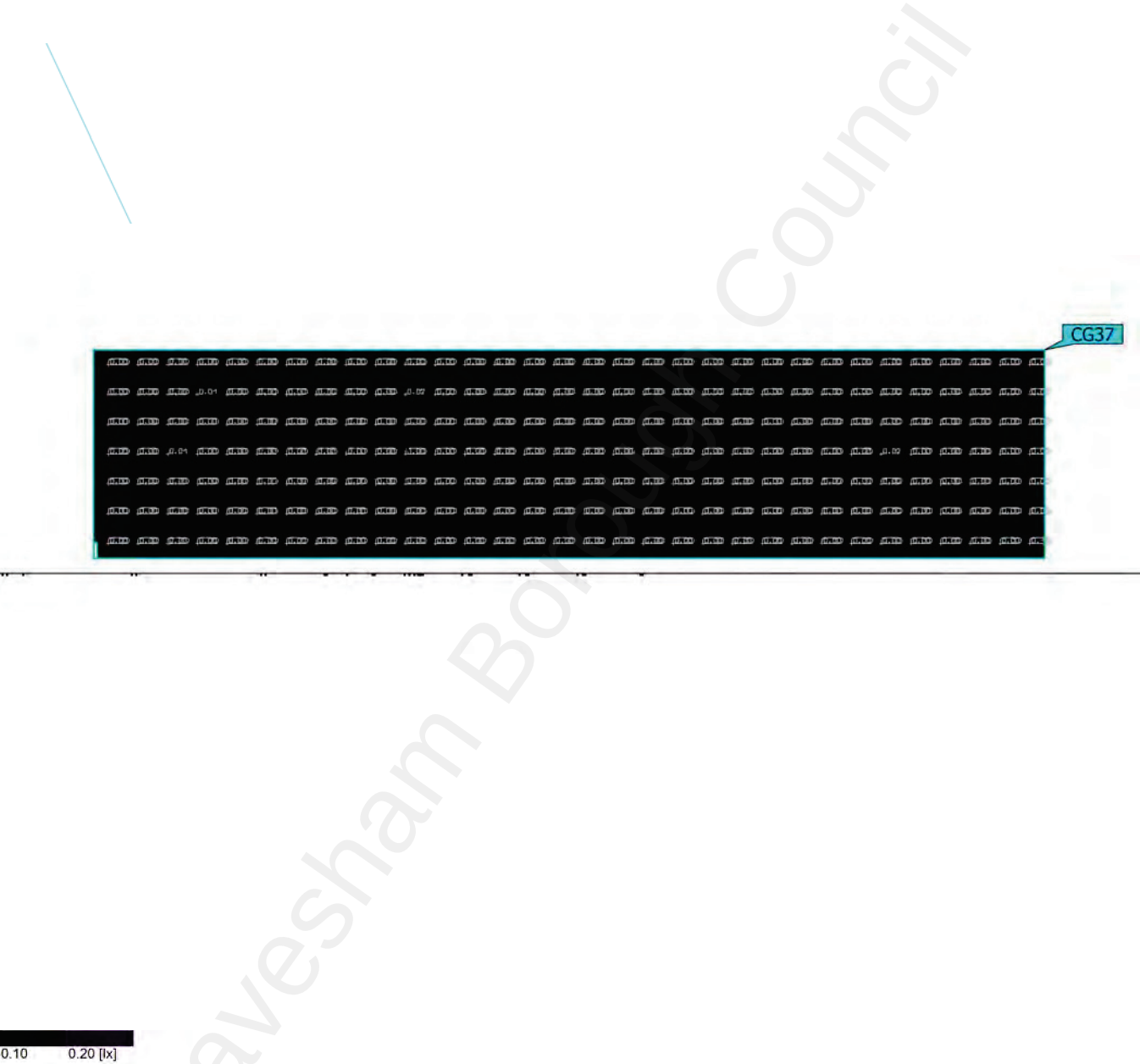
Site 1 (Light scene 1)
No. 172 Garden



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 172 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.007 lx	-	-	CG36

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

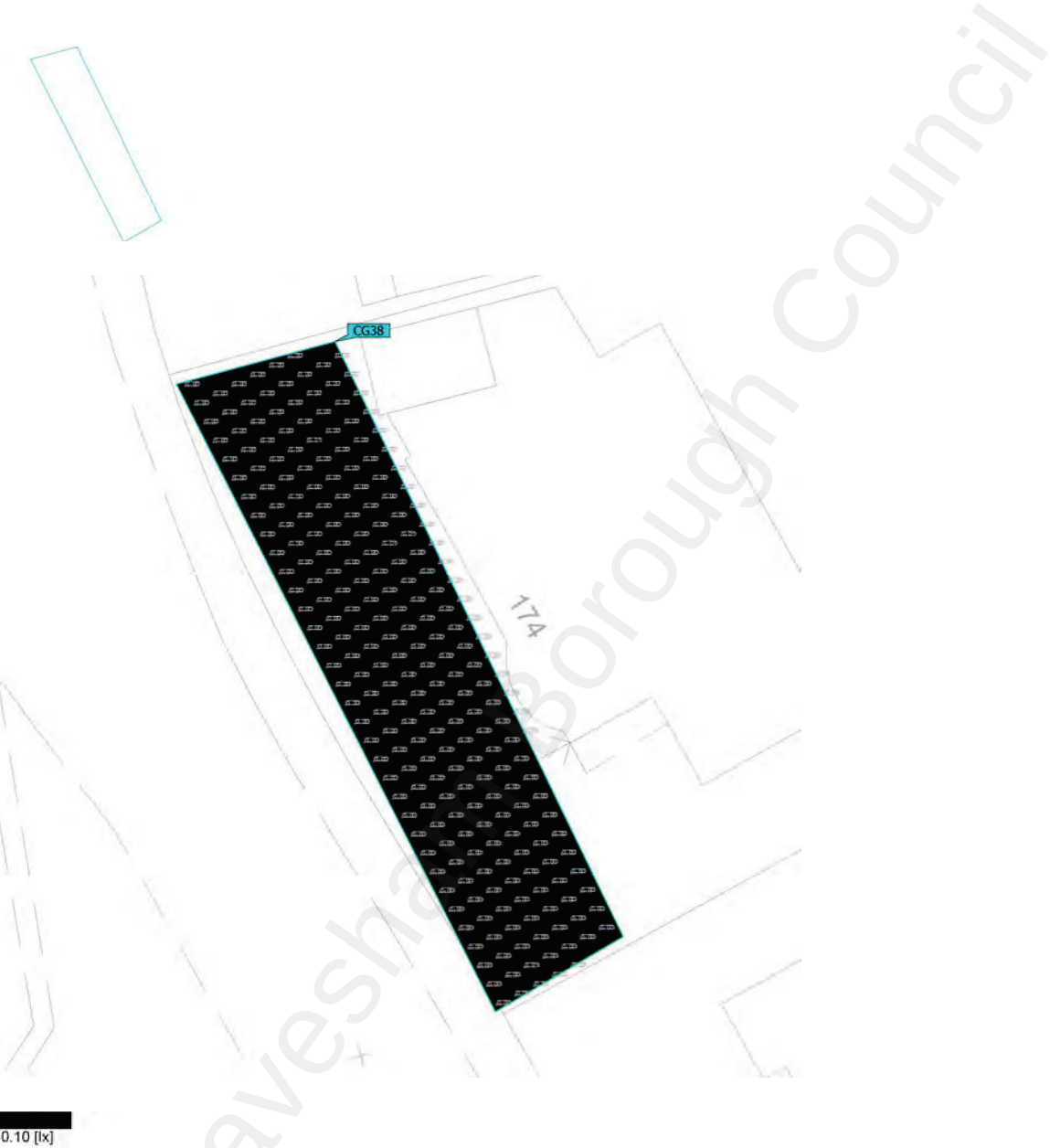
Site 1 (Light scene 1)
No. 174 Facade



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 174 Facade Vertical illuminance Rotation: 196.3°, Height: 4.000 m	0.001 lx	0.000 lx	0.13 lx	-	0.00	CG37

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

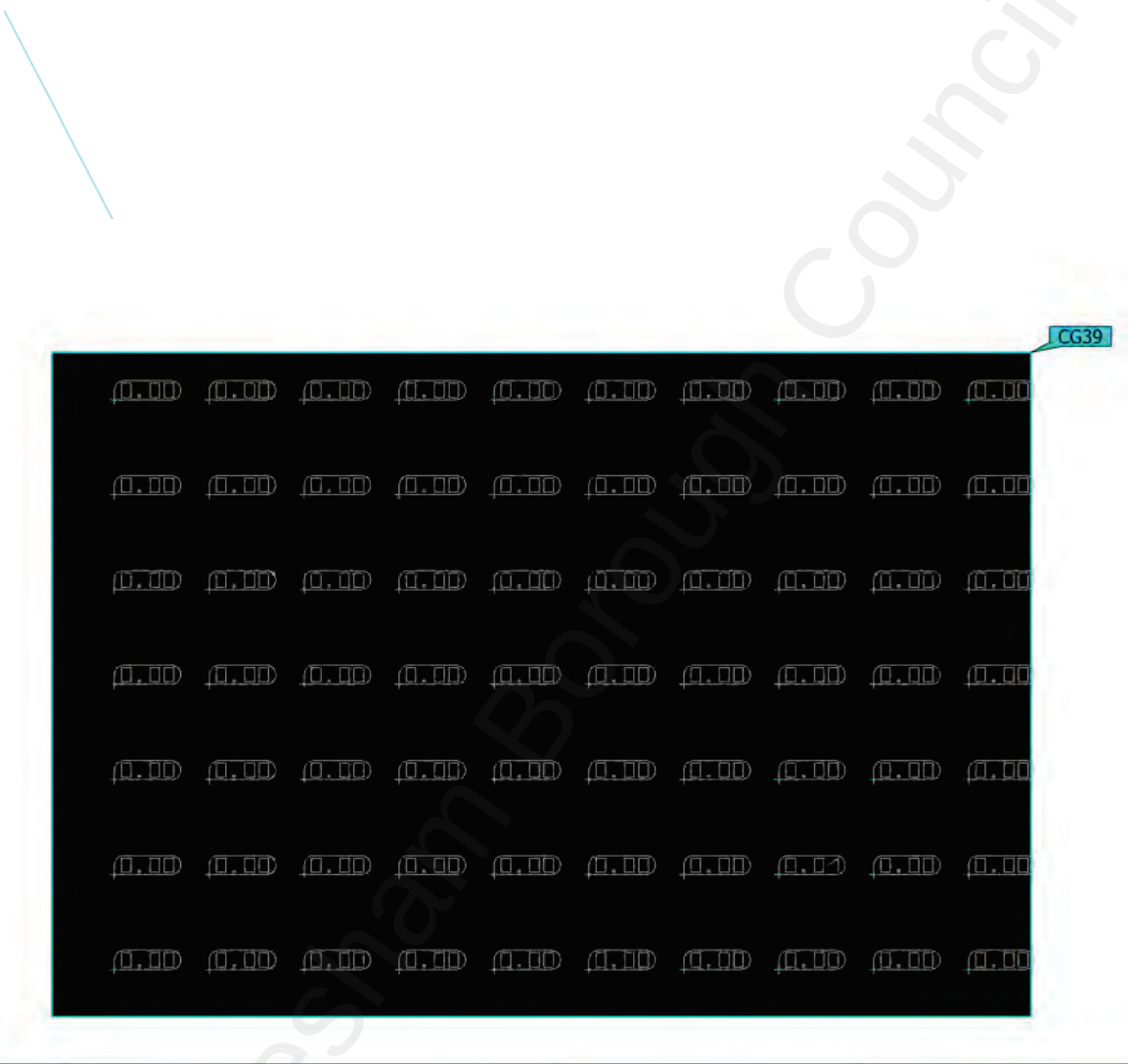
Site 1 (Light scene 1)
No. 174 Garden



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 174 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.007 lx	-	-	CG38

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 178 Facade

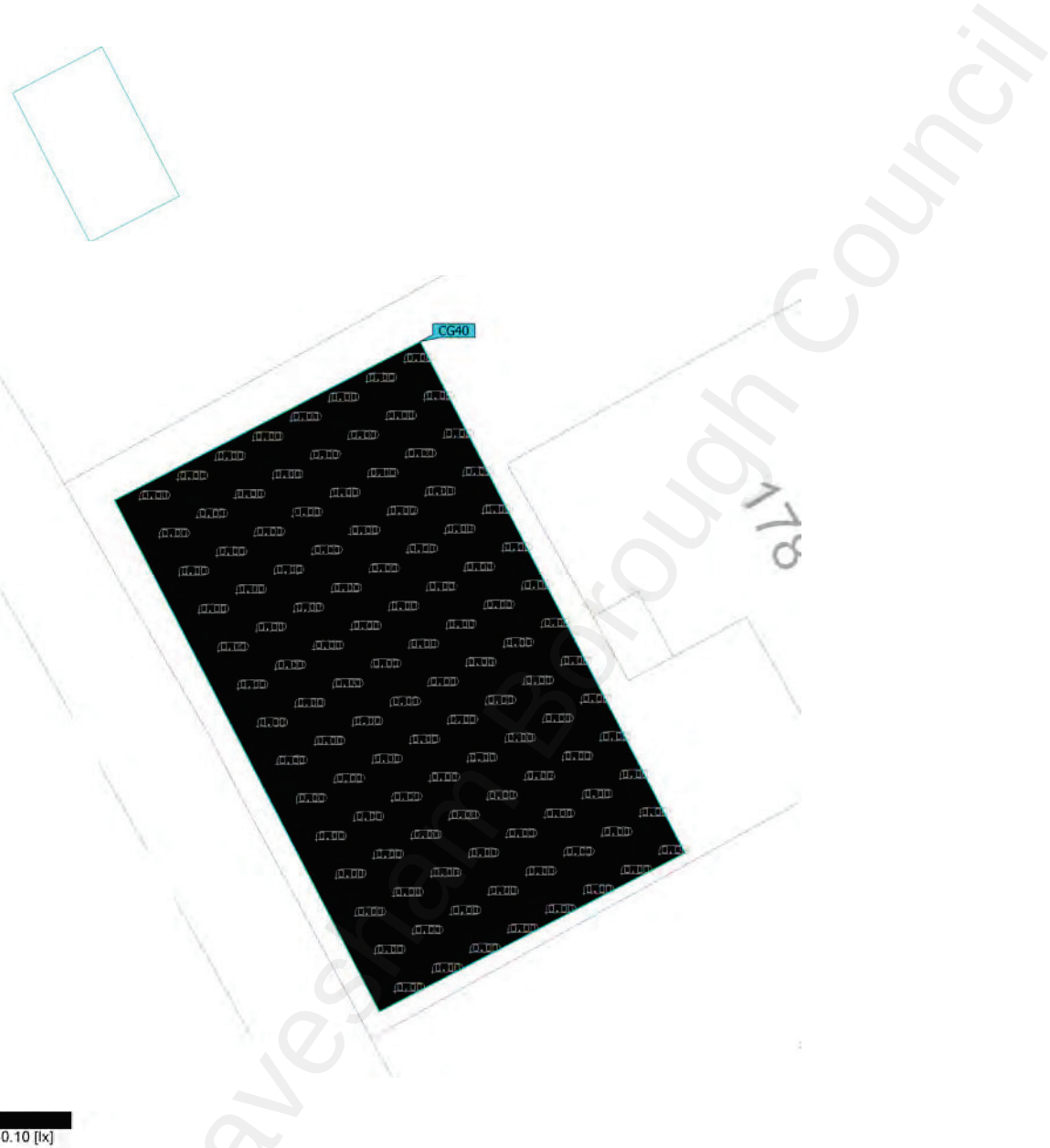


0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 178 Facade Vertical illuminance Rotation: 181.7°, Height: 4.000 m	0.000 lx	0.000 lx	0.006 lx	-	-	CG39

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

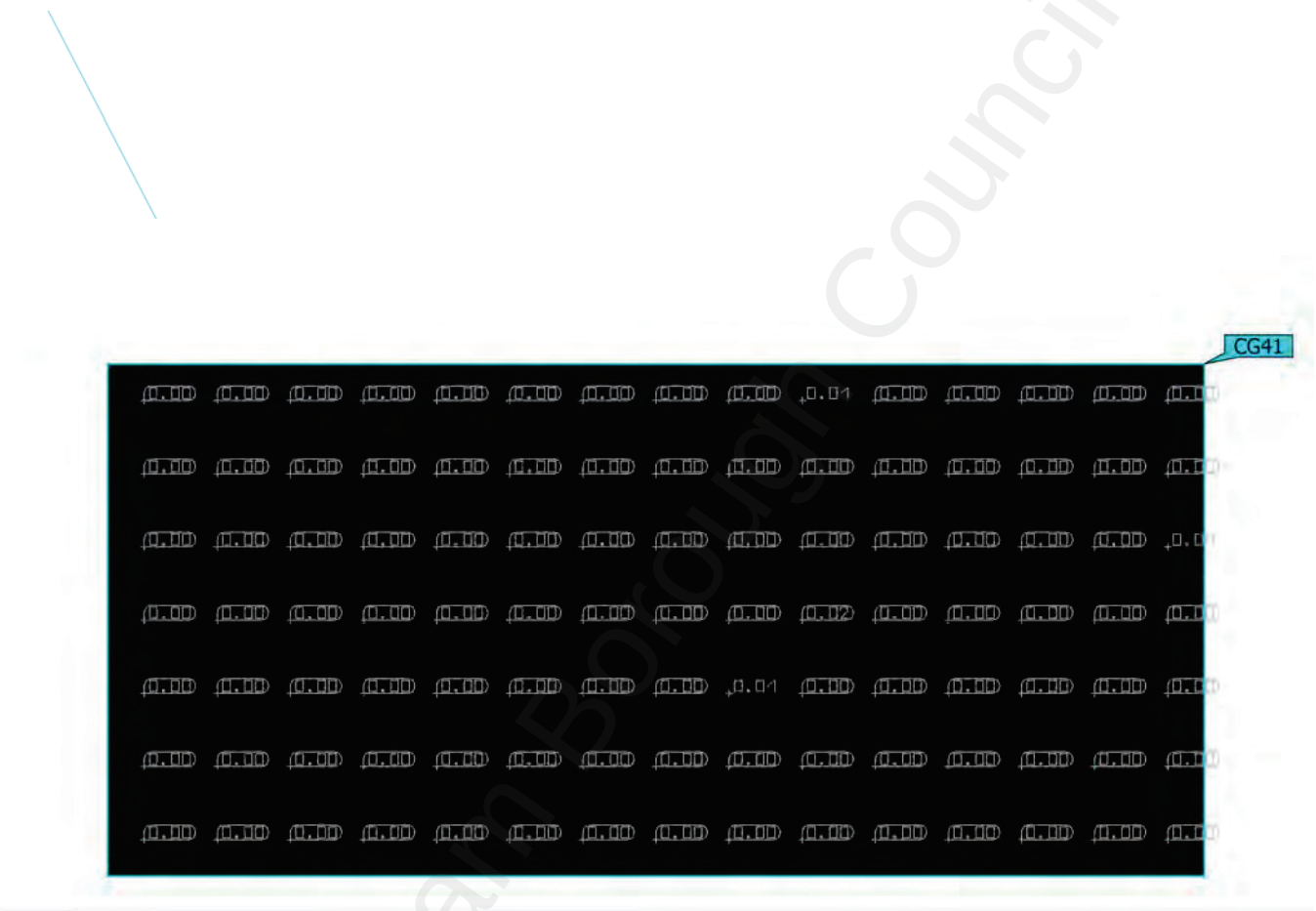
Site 1 (Light scene 1)
No. 174 Garden



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 174 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.000 lx	-	-	CG40

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 180 Facade

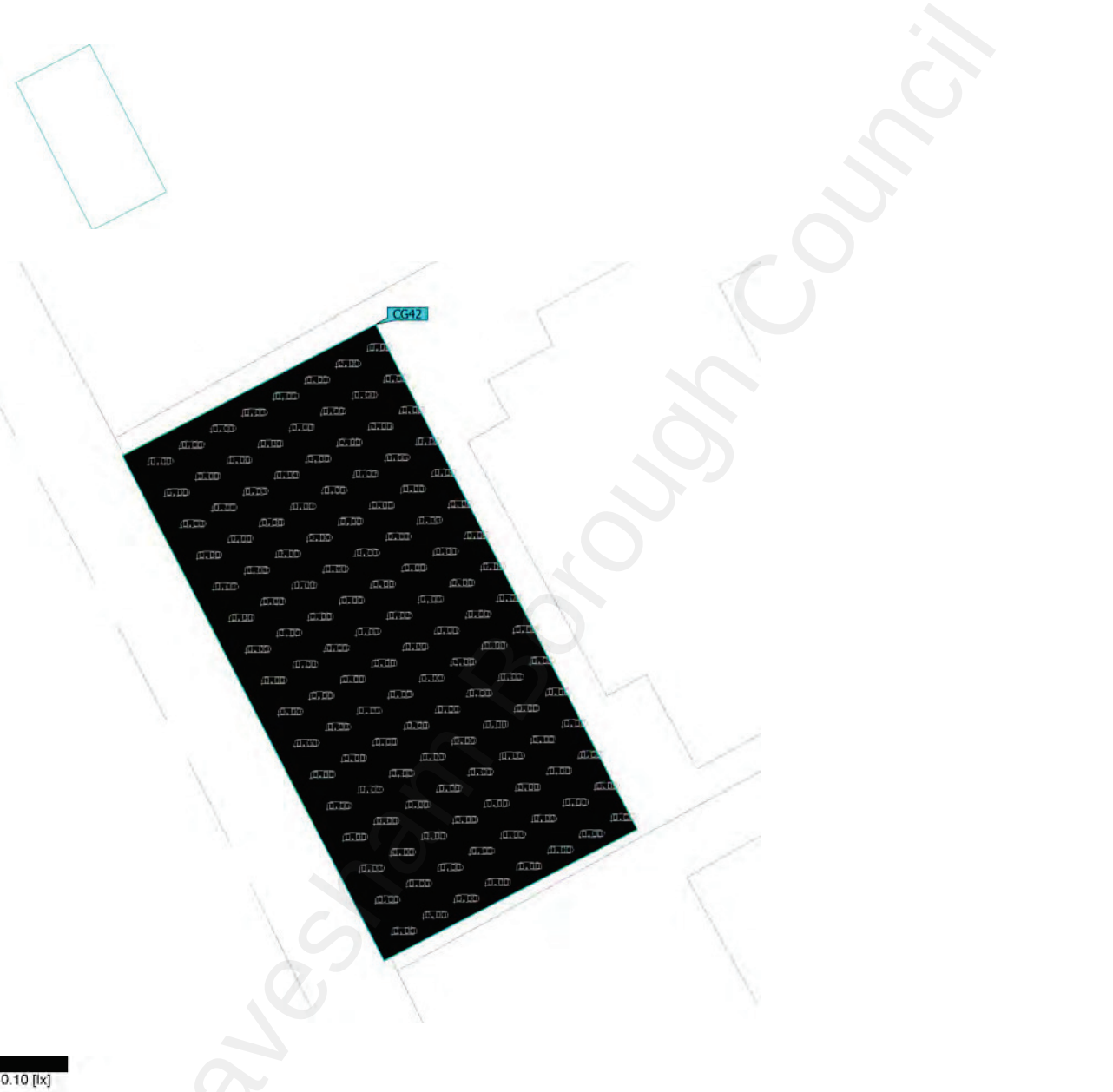


0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 180 Facade Vertical illuminance Rotation: 181.7°, Height: 4.000 m	0.001 lx	0.000 lx	0.017 lx	-	0.00	CG41

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 180 Garden

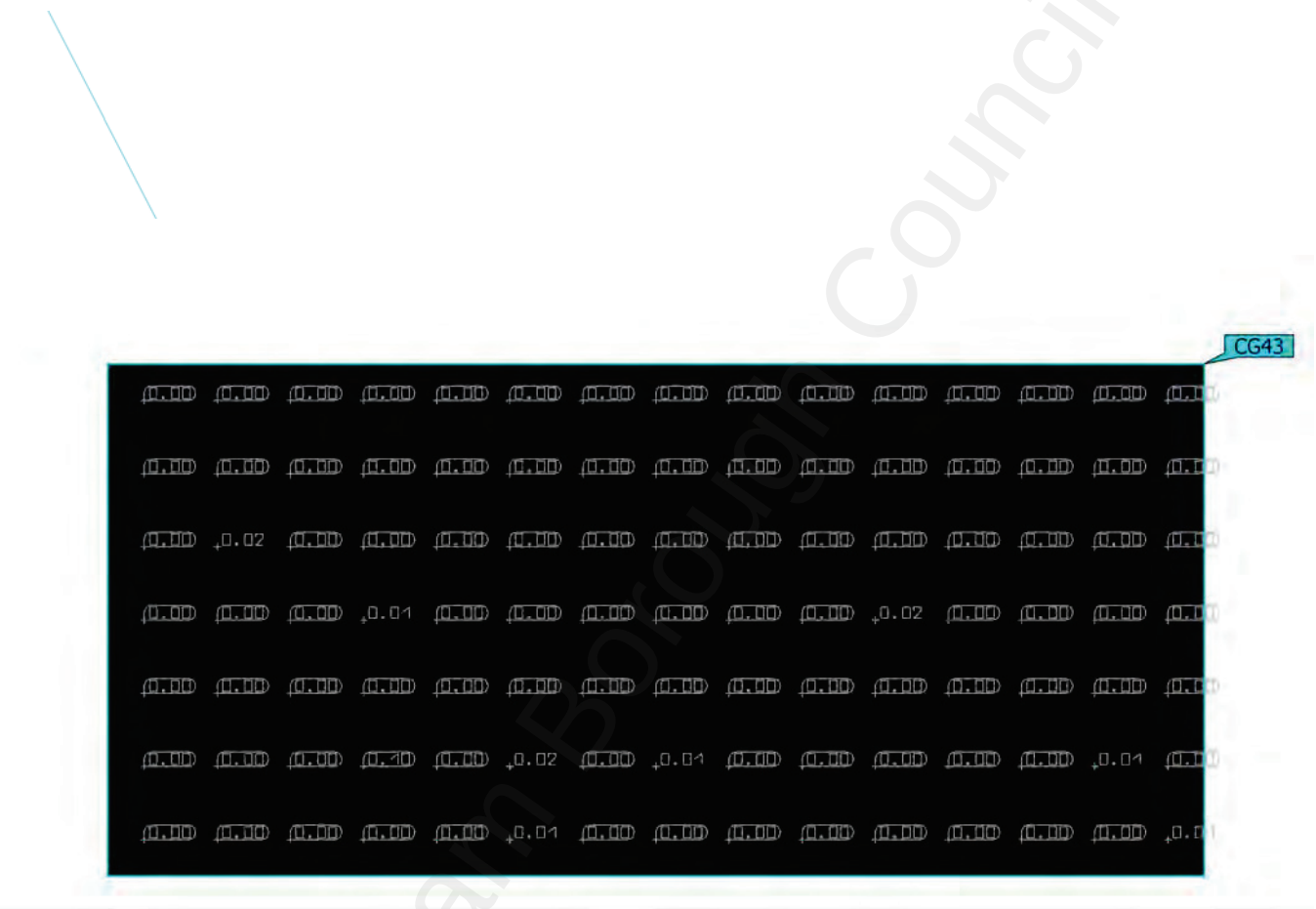


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 180 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.003 lx	-	-	CG42

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

No. 182 Facade

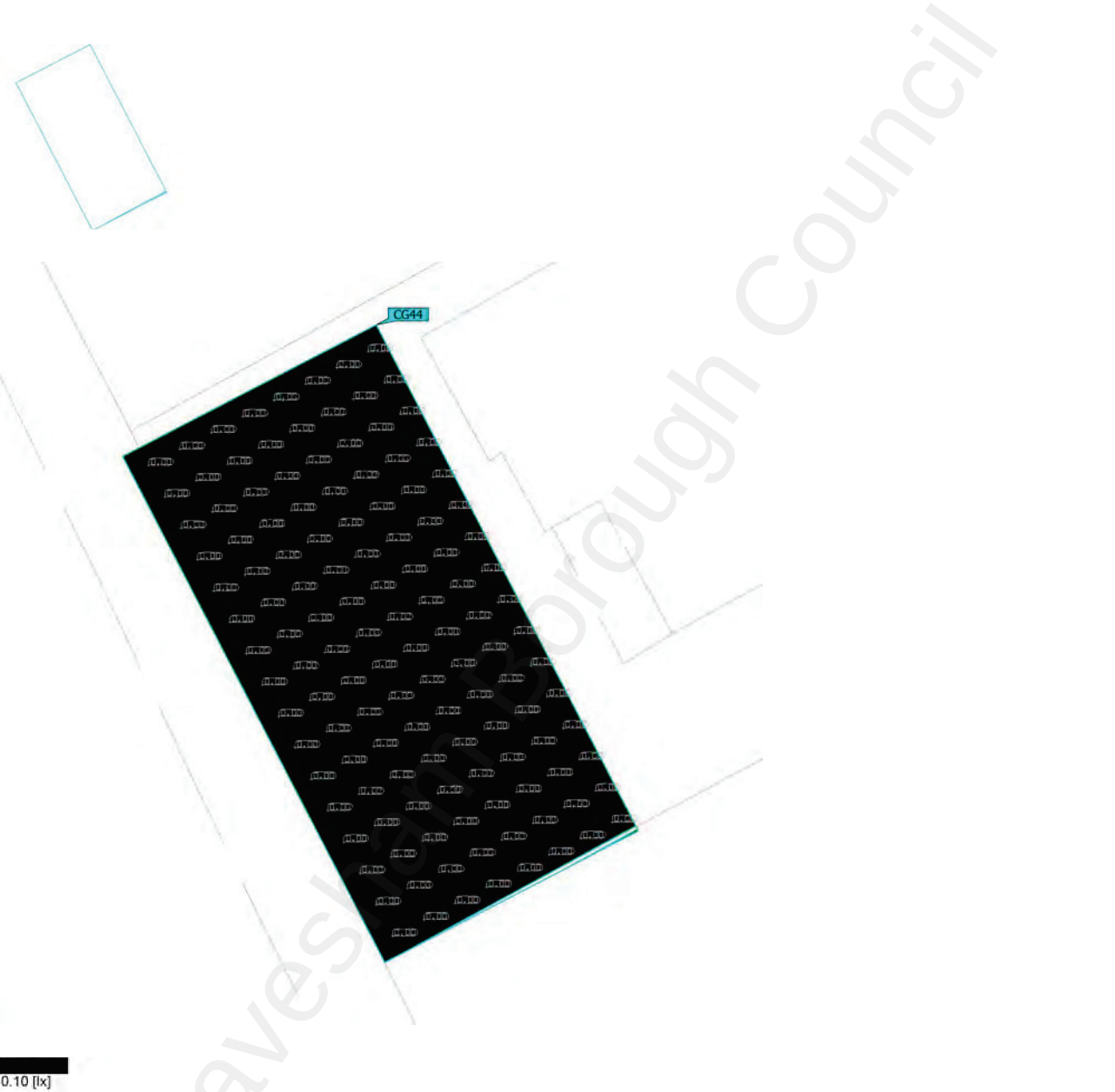


0.10 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 182 Facade Vertical illuminance Rotation: 181.7°, Height: 4.000 m	0.002 lx	0.000 lx	0.097 lx	-	0.00	CG43

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 182 Garden

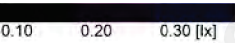
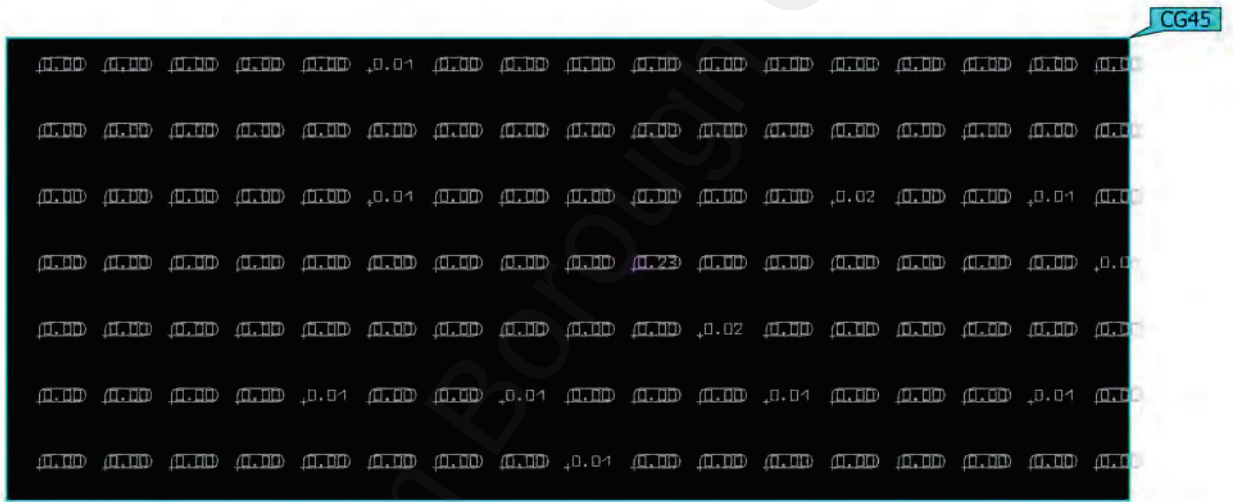


Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 182 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.003 lx	-	-	CG44

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)

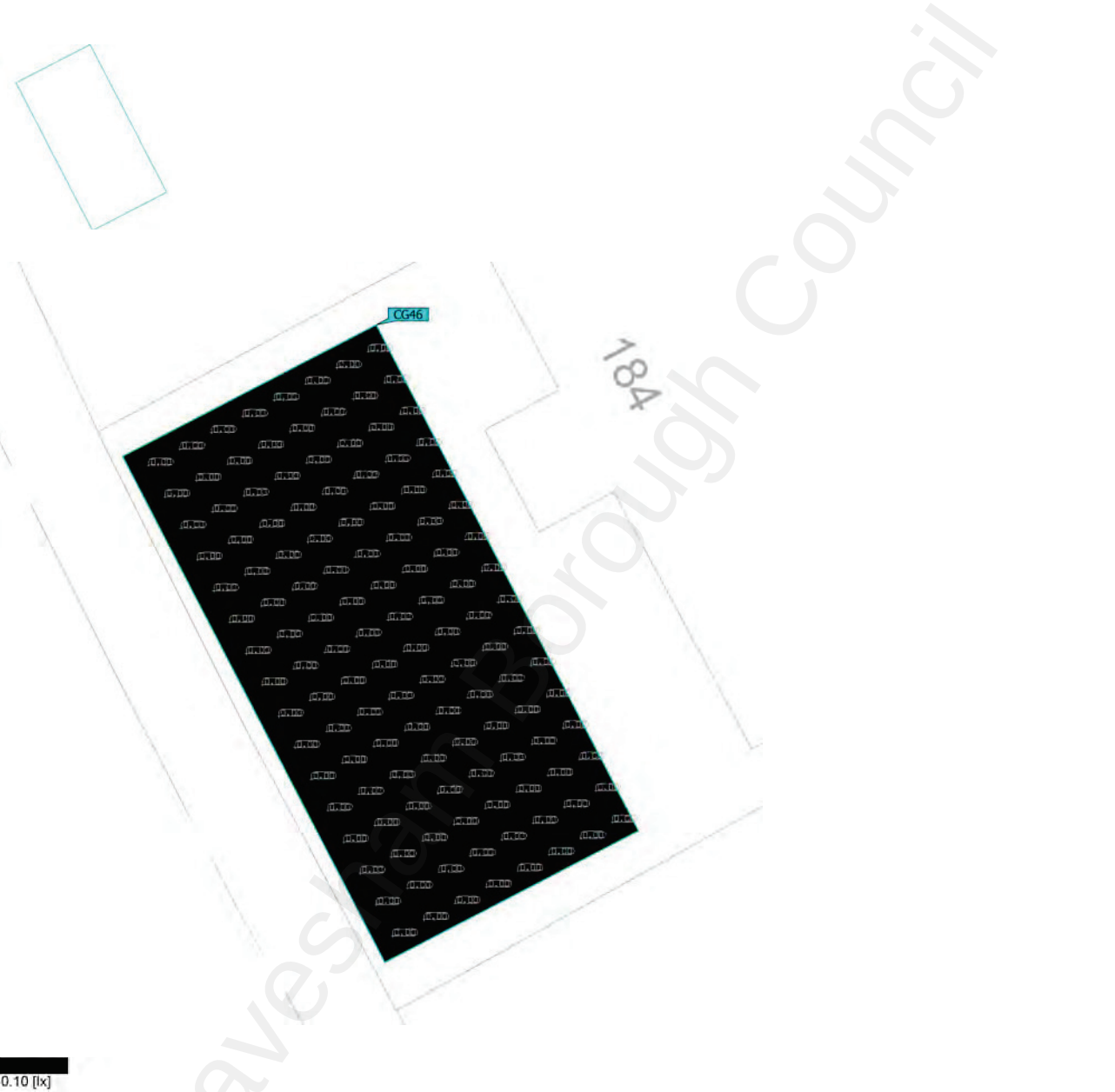
No. 184 Facade



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 184 Facade Vertical illuminance Rotation: 181.7°, Height: 4.000 m	0.003 lx	0.000 lx	0.23 lx	-	0.00	CG45

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)

Site 1 (Light scene 1)
No. 184 Garden



Properties	$\bar{E}$	E_{min}	E_{max}	g_1	g_2	Index
No. 184 Garden Horizontal illuminance Height: 1.000 m	0.000 lx	0.000 lx	0.004 lx	-	-	CG46

Utilisation profile: DIALux presetting, Standard (outdoor transportation area)