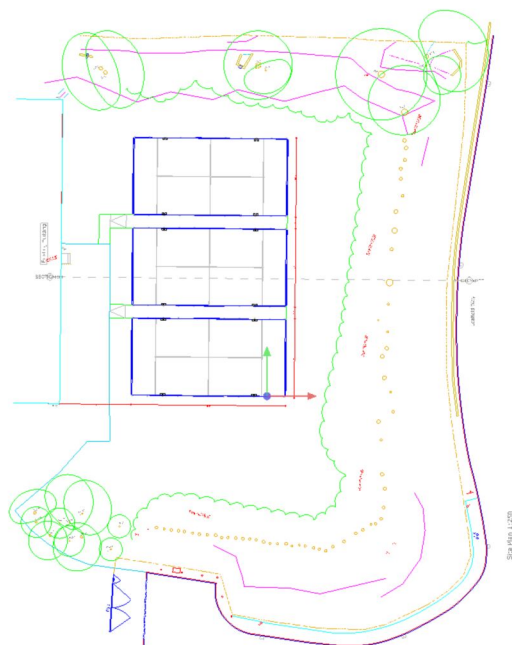




Description

Indicative Vertical Illuminance Calculations

Document to be read in conjunction with Lighting Technical Report:
4076-DFL-ELG-XX-RP-EO-13001.

Potentially Sensitive Ecological Receptor Parameters:

Measurement grid for PSER is mounted 1.5m from ground level.

Measurement grid is 10m tall.

Potential Human Amenity Receptor Parameters:

Measurement grid for PHARs are mounted at ground level.

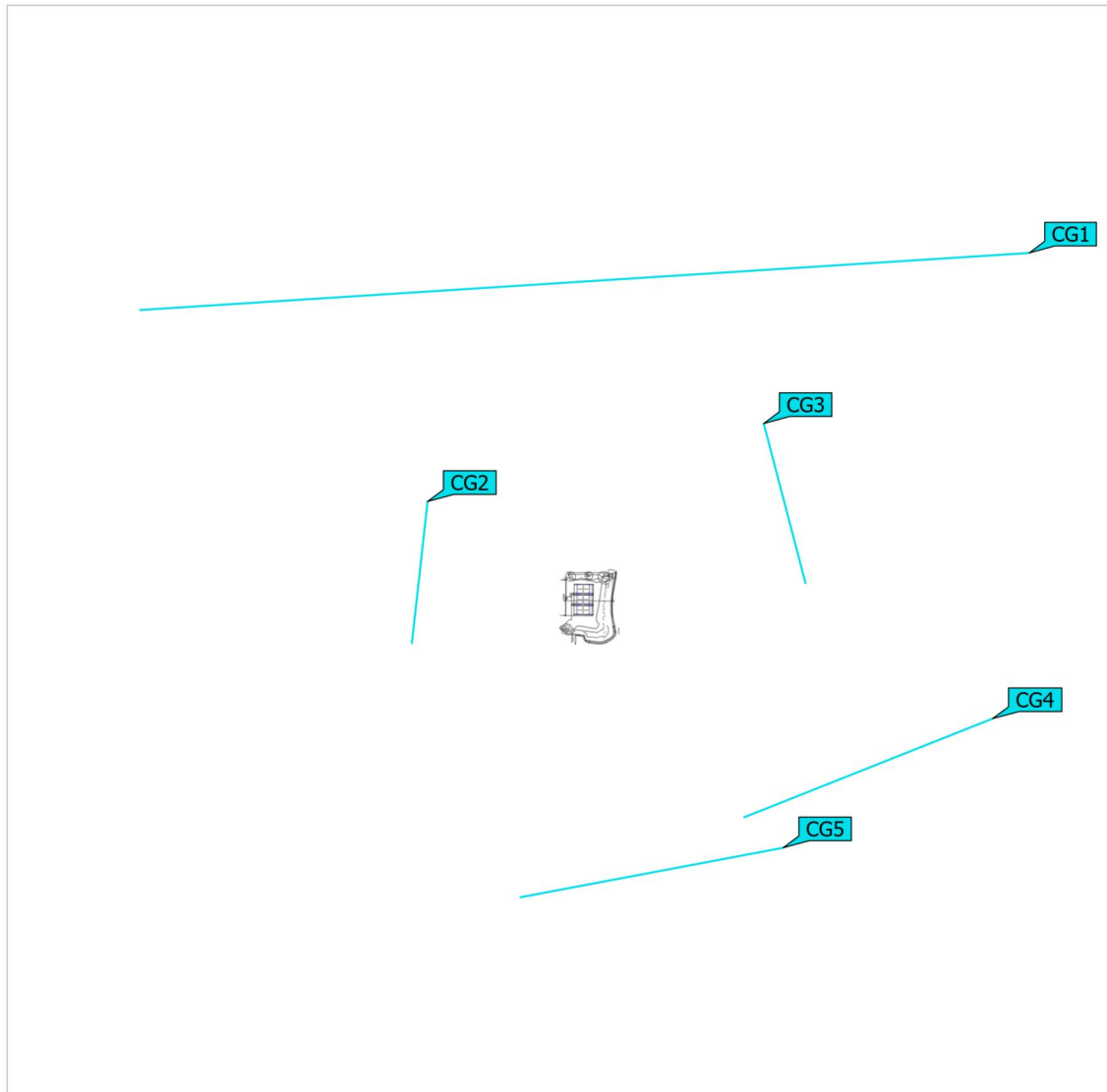
Measurement grids are 5m tall.

All measurement points are spaced 1m x 1m.

Luminaire Maintenance Factor = 1.

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
PHAR 001 Custom illuminance Rotation: X:90.0°, Y:80.0°, Z:0.0°, Height: 2.500 m	0.006 lx	0.004 lx	0.009 lx	-	-	CG2
PHAR 002 Custom illuminance Rotation: X:90.0°, Y:-60.0°, Z:0.0°, Height: 2.500 m	0.003 lx	0.002 lx	0.004 lx	-	-	CG3
PHAR 003 Custom illuminance Rotation: X:-90.0°, Y:-60.0°, Z:0.0°, Height: 2.500 m	0.001 lx	0.001 lx	0.002 lx	-	-	CG4
PHAR 004 Custom illuminance Rotation: X:90.0°, Y:195.0°, Z:0.0°, Height: 2.500 m	0.001 lx	0.001 lx	0.001 lx	-	-	CG5
PSEER 001 - Corsham Railway Cutting Custom illuminance Rotation: X:90.0°, Y:0.0°, Z:0.0°, Height: 6.500 m	0.000 lx	0.000 lx	0.001 lx	-	-	CG1

Utilisation profile: DIALux presetting (5.1.4 Standard (outdoor transportation area))

Notes on planning:

The calculation of the results is based purely on the direct light component. The effect of reflected light has not been considered.

Site 1 (Light scene 1)

PSER 001 - Corsham Railway Cutting

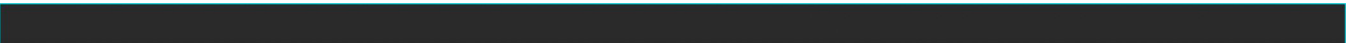



0.00 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
PSER 001 - Corsham Railway Cutting Custom illuminance Rotation: X:90.0°, Y:0.0°, Z:0.0°, Height: 6.500 m	0.000 lx	0.000 lx	0.001 lx	-	-

Site 1 (Light scene 1)

PHAR 001



0.01 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2
PHAR 001 Custom illuminance Rotation: X:90.0°, Y:80.0°, Z:0.0°, Height: 2.500 m	0.006 lx	0.004 lx	0.009 lx	-	-

Site 1 (Light scene 1)

PHAR 002

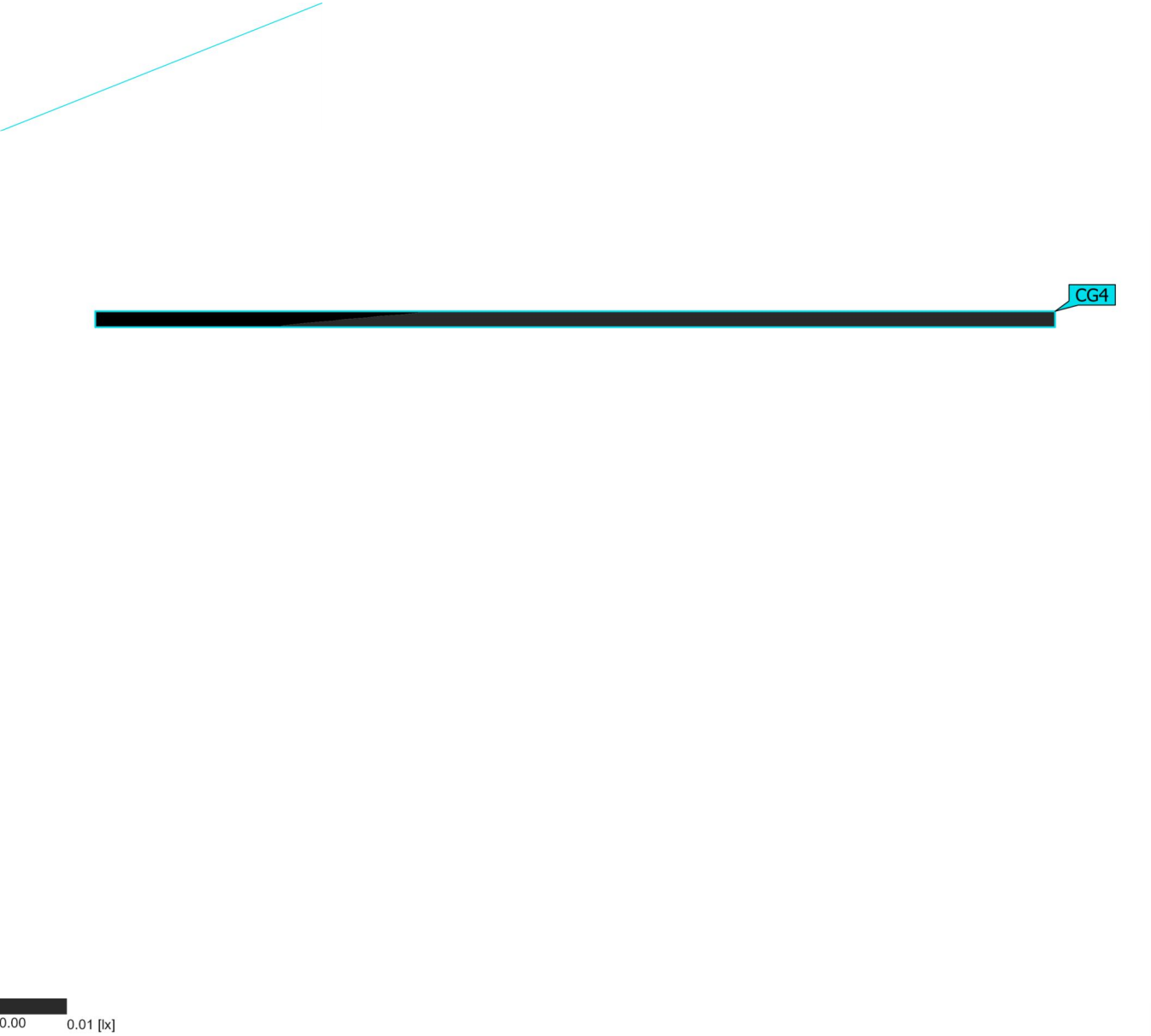


0.01 [lx]

Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
PHAR 002 Custom illuminance Rotation: X:90.0°, Y:-60.0°, Z:0.0°, Height: 2.500 m	0.003 lx	0.002 lx	0.004 lx	-	-	CG3

Site 1 (Light scene 1)

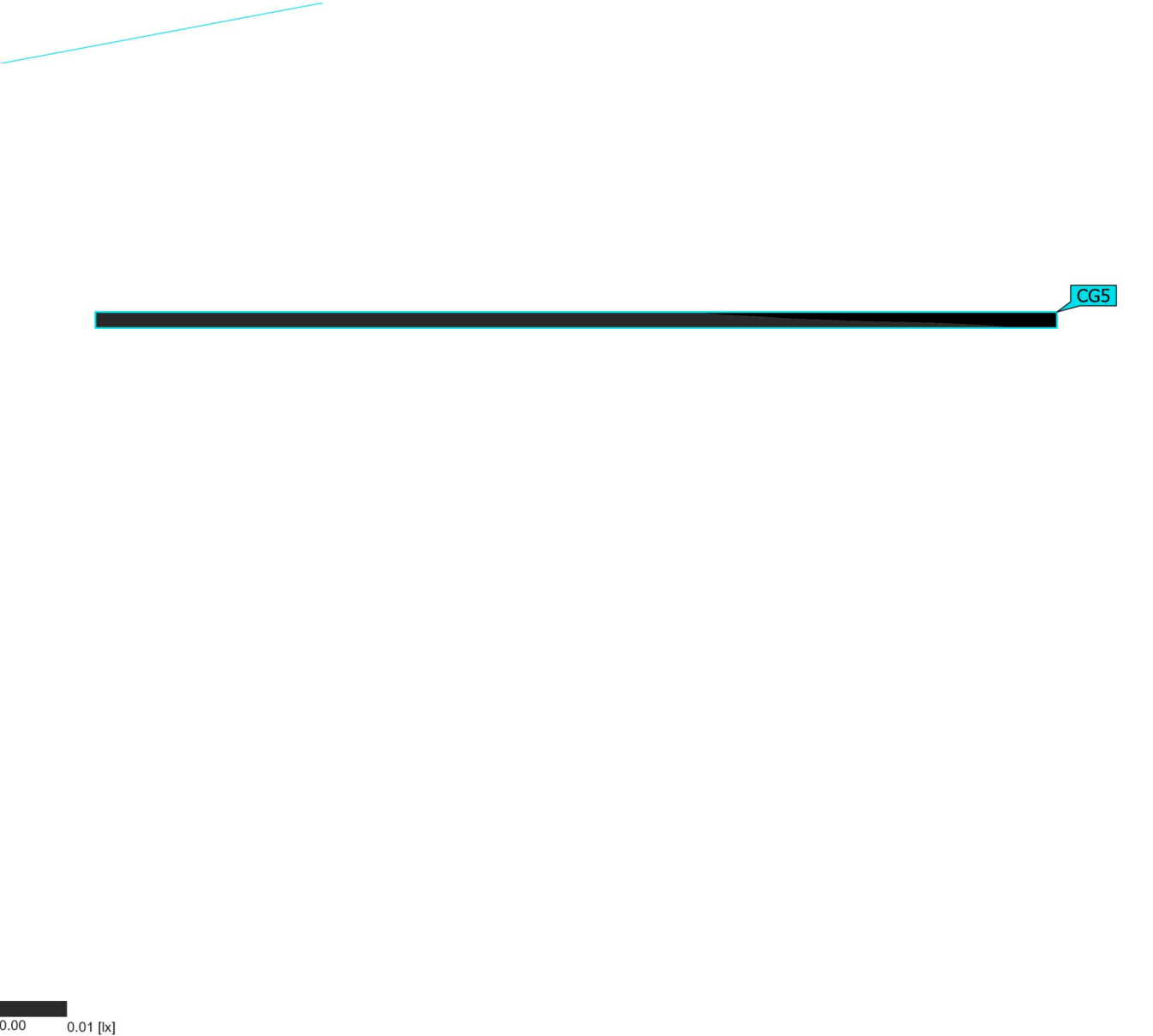
PHAR 003



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
PHAR 003 Custom illuminance Rotation: X:-90.0°, Y:-60.0°, Z:0.0°, Height: 2.500 m	0.001 lx	0.001 lx	0.002 lx	-	-	CG4

Site 1 (Light scene 1)

PHAR 004



Properties	$\bar{E}$	E_{min}	E_{max}	$U_o (g_1)$	g_2	Index
PHAR 004 Custom illuminance Rotation: X:90.0°, Y:195.0°, Z:0.0°, Height: 2.500 m	0.001 lx	0.001 lx	0.001 lx	-	-	CG5