

Motorhome & Log Cabin Site

Installation : Lighting

Project number : Partfield Park

Customer :

Processed by : SS

Date : 11.12.2024

Project description:

Project description: We have the pleasure of providing you the enclosed proposal with all calculations based on the information, drawings and specifications provided. Please check to confirm that all details are correct, especially dimensions of the areas and specification of the fittings as the information provided may not be precise. Areas are assumed to be open areas without any obstructions above the working plane. Where applicable the designs conform to BS EN12464-1 and 2 :2011, SLL Code of Lighting 2012, CIBSE LG3 1996/2001, BS5489 - 1 2003 and LG7 recommendations and guidelines. If conformity to LG7 is to be proved with exact figures, we may need to add or change the Luminaire types. Please be aware of the Part L2 requirements and check that conformity has been met where required. Illuminance levels and uniformity are shown for your approval as are the proposed luminaire types , please ensure that this choice is suitable for the room usage. We have used common design parameters for ceiling heights and reflection factors of the room surfaces (wall 50% ceiling 70% floor 20%), as well as Maintenance Factors (LED light source 0.8), in our calculations unless details were provided or otherwise stated. If any of these are not acceptable, please contact us to enable re- calculations to be carried out prior to ordering. Any emergency lighting scheme should be checked and confirmed with a local building/fire control officer and ultimately by the owner of the building. Emergency Lighting will be designed to recommended guidelines set out in BS5266 2013. All calculations have been based on rated lumen outputs and Photometric Data supplied by the manufacturers, but these may vary with ambient site temperatures. Whilst every effort will be made by Light Library to adhere to the written or product specification provided, it is always the responsibility of the customer to ensure that any design scheme, specification or product supplied satisfies fully, complies with the end users requirements and is suitable for the installation required. If unsure of any suggested fittings it is advisable to order samples in advance.

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.

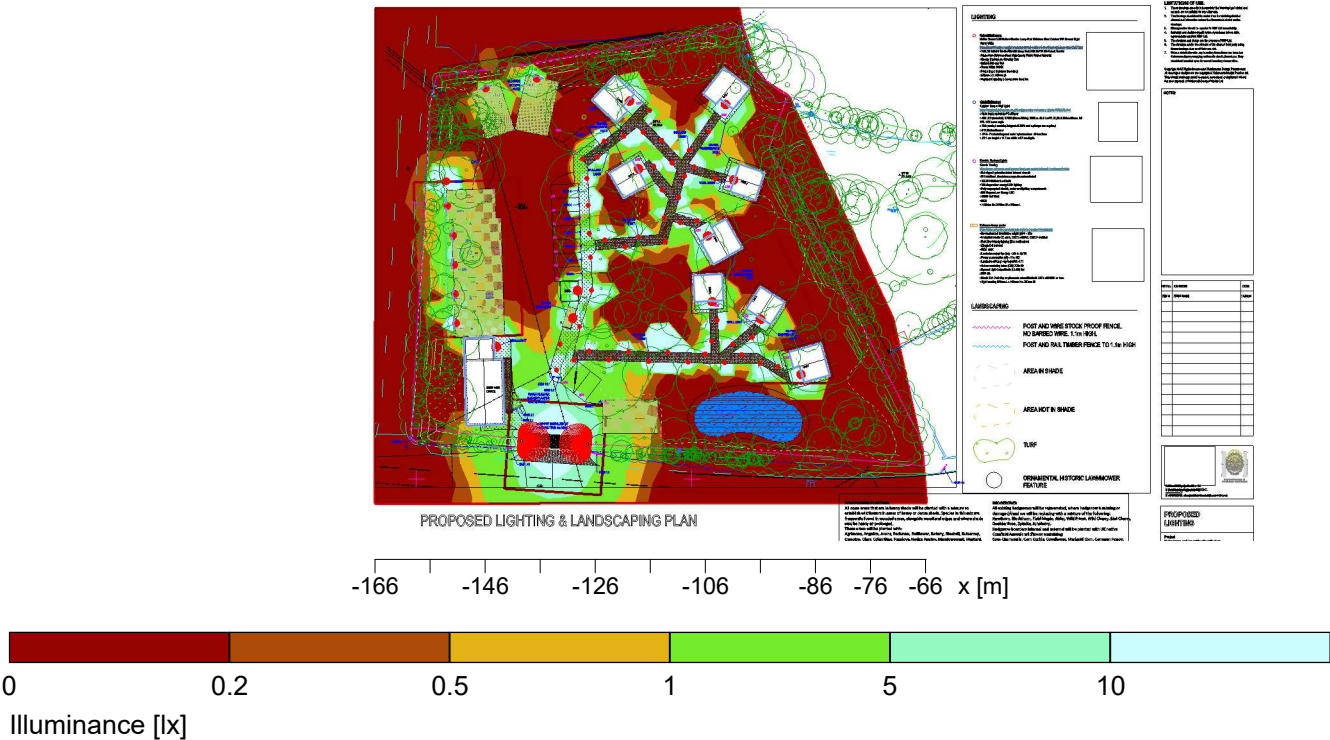
This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.



1 Exterior 1(Copy of)

1.1 Summary, Exterior 1(Copy of)

1.1.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.85
Total luminous flux	33527.00 lm
Total power	421.4 W
Total power per area (7765.25 m²)	0.05 W/m² (1.70 W/m²/100lx)

Evaluation area 1	Reference plane 1.1
\bar{E}_m	Horizontal
E_{min}	3.2 lx
$E_{min}/\bar{E}_m (U_o)$	0 lx
$E_{min}/E_{max} (U_d)$	---
Position	---
	0.00 m

Type No.\Make

- 1

47 x

Lombardo-Cini&Nils
Order No. : LL14805
Luminaire name : KIT CLIC POST 40 H1000
Equipment : 1 x KIT CLIC POST 40 H1000 5 W / 362 lm
- 2

10 x

Order No. : LL14802
Luminaire name : CLIC WALL
Equipment : 1 x CLIC WALL 5 W / 362 lm


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1.1 Summary, Exterior 1(Copy of)


1.1.1 Result overview, Evaluation area 1

3 4 x Order No. : LL121008
 Luminaire name : LL121008
Equipment : 1 x LL121008N_KOI 220 10.3 W / 654 lm

4 8 x Order No. : LL14502
 Luminaire name : TAPE 140
Equipment : 1 x TAPE 140 4W 4 W / 419 lm

10 1 x Order No. : !LL112008
 Luminaire name : TREND 200
Equipment : 1 x LL112012N_TREND 11.2 W / 1325 lm

Lombardo - Cini&Nils

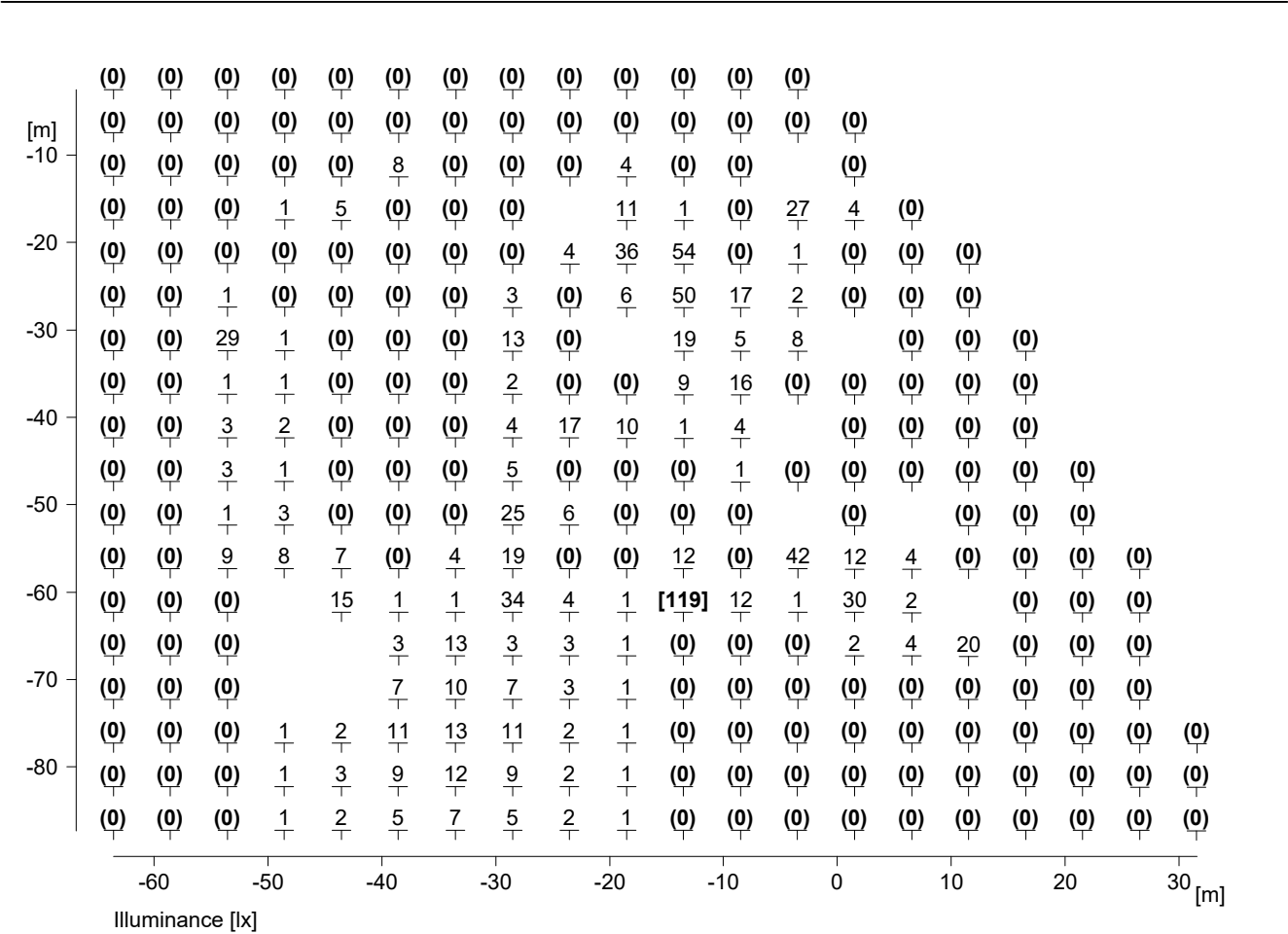
7 2 x Order No. : LM155180_2.LDT
 Luminaire name : LM155180_2
Equipment : 1 x LED 26 W / 2800 lm



1 Exterior 1(Copy of)

1.2 Calculation results, Exterior 1(Copy of)

1.2.1 Table, Reference plane 1.1 (E)

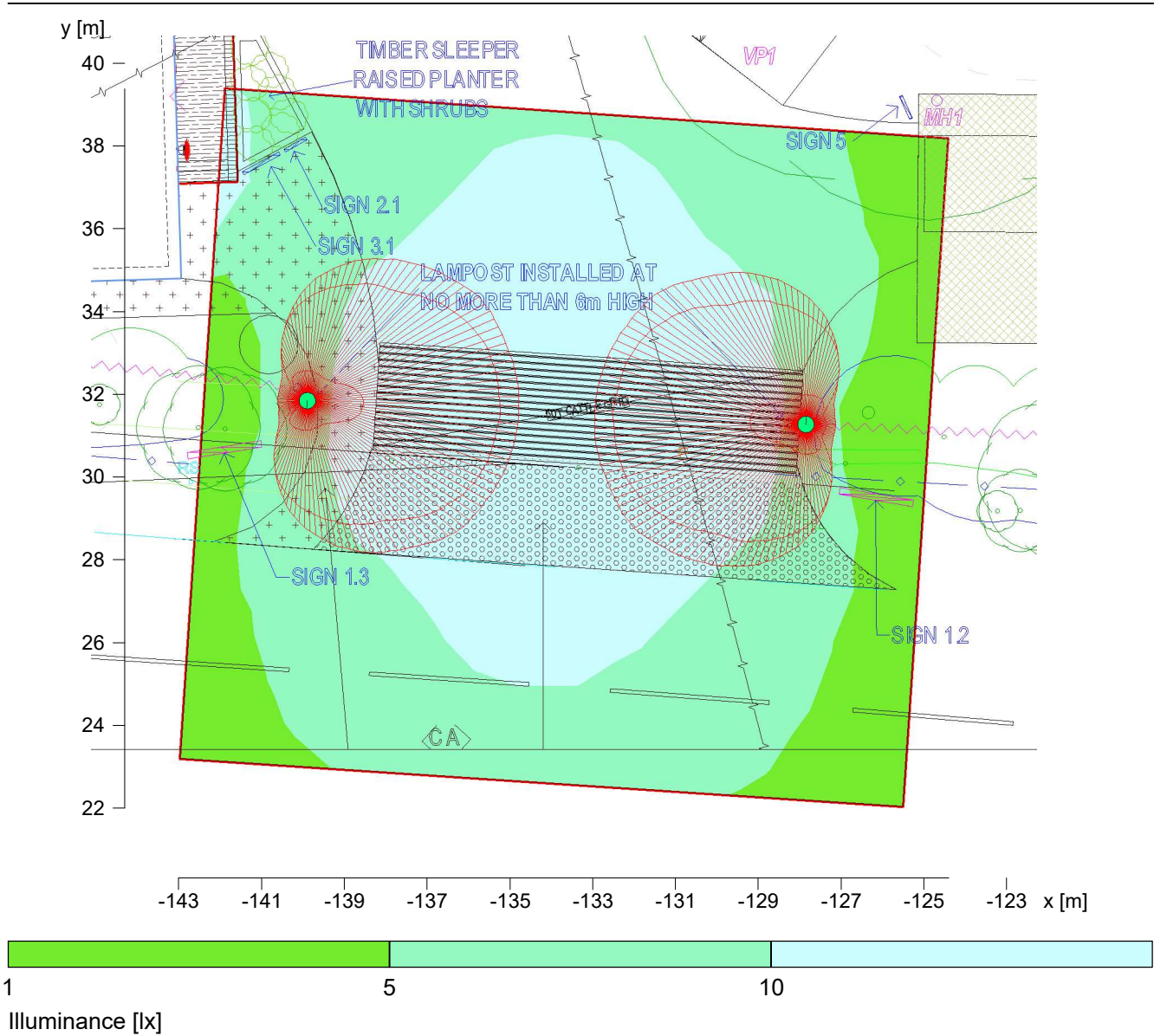


Height reference plane	: 0.00 m
Average illuminance	\bar{E}_m : 3 lx
Minimum illuminance	E_{min} : 0 lx
Maximum illuminance	E_{max} : 119 lx
Uniformity U_o	E_{min}/\bar{E}_m : ---
Diversity U_d	E_{min}/E_{max} : ---



1.2 Calculation results, Exterior 1(Copy of)

1.2.2 Pseudo colours, Entrance Driveway (E)

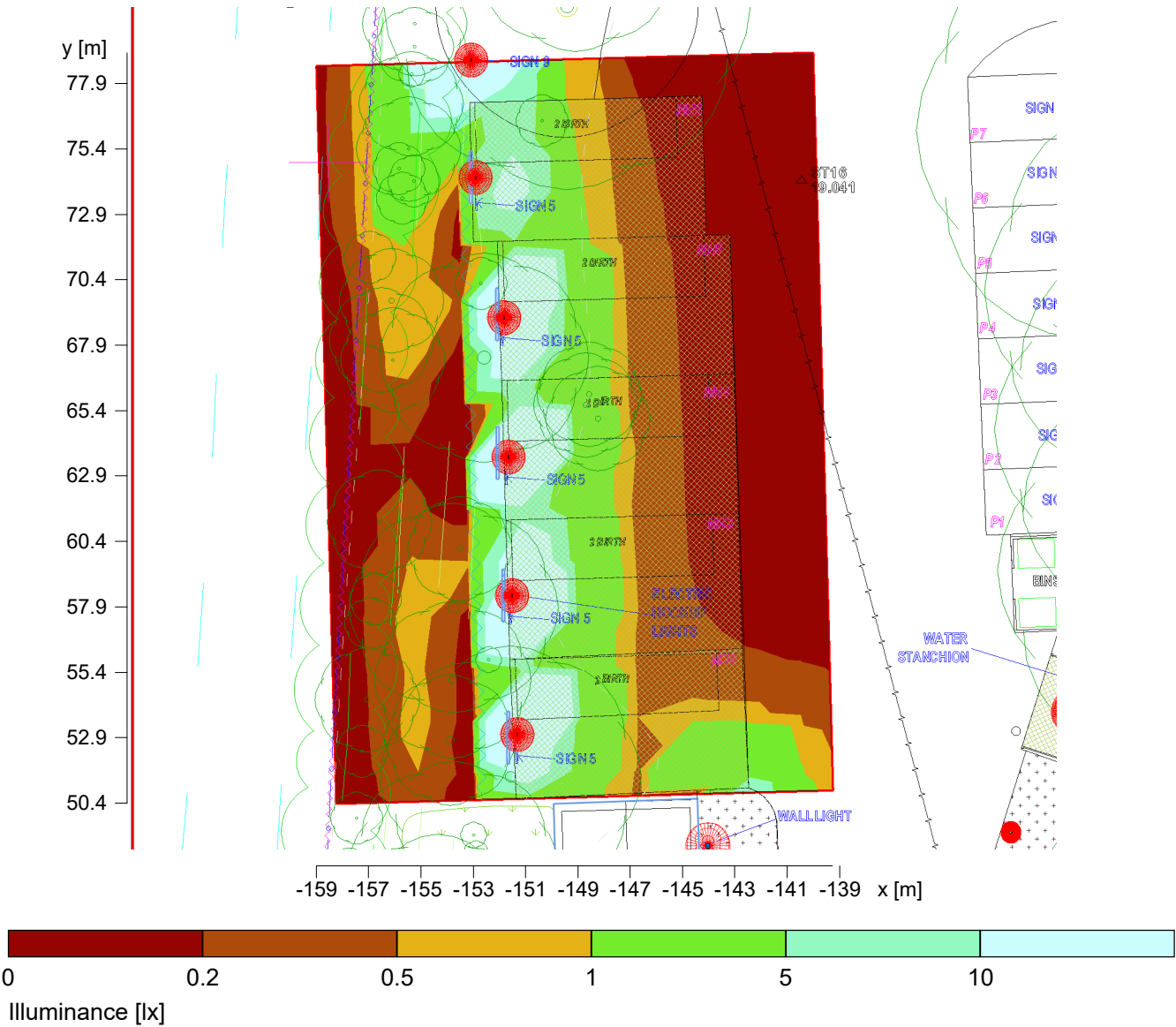


Height reference plane	: 0.00 m
Average illuminance	\bar{E}_m : 8.8 lx
Minimum illuminance	E_{min} : 2.4 lx
Maximum illuminance	E_{max} : 14.8 lx
Uniformity U_o	E_{min}/\bar{E}_m : 1 : 3.61 (0.28)
Diversity U_d	E_{min}/E_{max} : 1 : 6.11 (0.16)



1.2 Calculation results, Exterior 1(Copy of)

1.2.3 Pseudo colours, Hook Up Light Spill Floor (E)

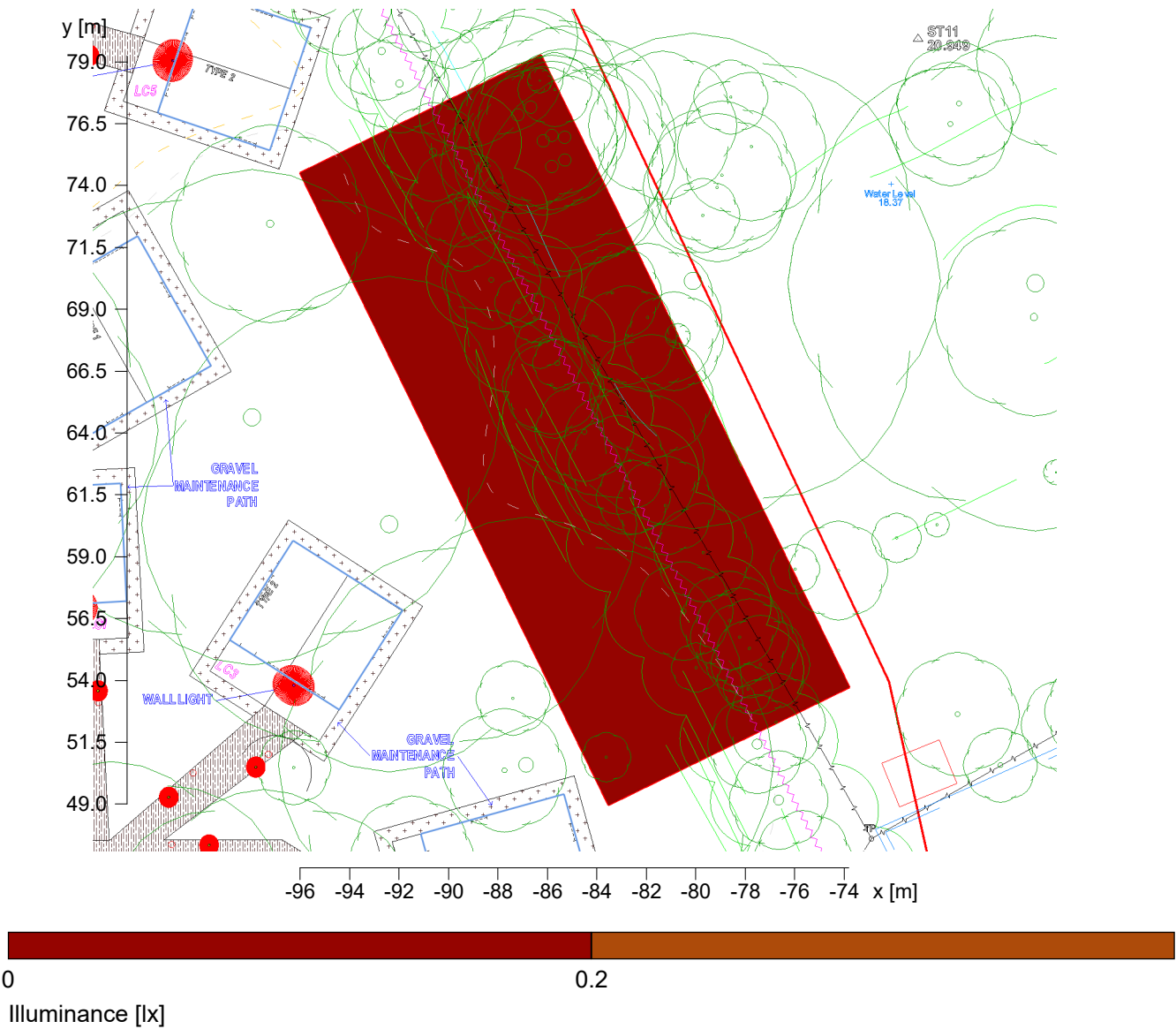


Height reference plane	: 0.00 m
Average illuminance	\bar{E}_m : 3 lx
Minimum illuminance	E_{min} : 0 lx
Maximum illuminance	E_{max} : 57.8 lx
Uniformity U_o	E_{min}/\bar{E}_m : 1 : 165.21 (0.01)
Diversity U_d	E_{min}/E_{max} : 1 : 3213.91 (0.00)



1.2 Calculation results, Exterior 1(Copy of)

1.2.4 Pseudo colours, East Light Spill Floor (E)



Height reference plane		: 0.00 m
Average illuminance	\bar{E}_m	: 0 lx
Minimum illuminance	E_{min}	: 0 lx
Maximum illuminance	E_{max}	: 0 lx
Uniformity U_o	E_{min}/\bar{E}_m	: ---
Diversity U_d	E_{min}/E_{max}	: ---



1.2 Calculation results, Exterior 1(Copy of)

1.2.5 Pseudo colours, South Floor Light Spill (E)

