

PCH Hospital Car Park, Merthyr

REVISION 2: REVISED CALCUALTIONS BASED ON NEW PHOTOMETRY.

Sample Calculations based on 6m columns and Starbeam ECO luminaire.

Estimate: 534691
Company: HOARE LEA
Contact: Richard Brennan

Date: 19.08.2020
Operator: Emil Piotrowski



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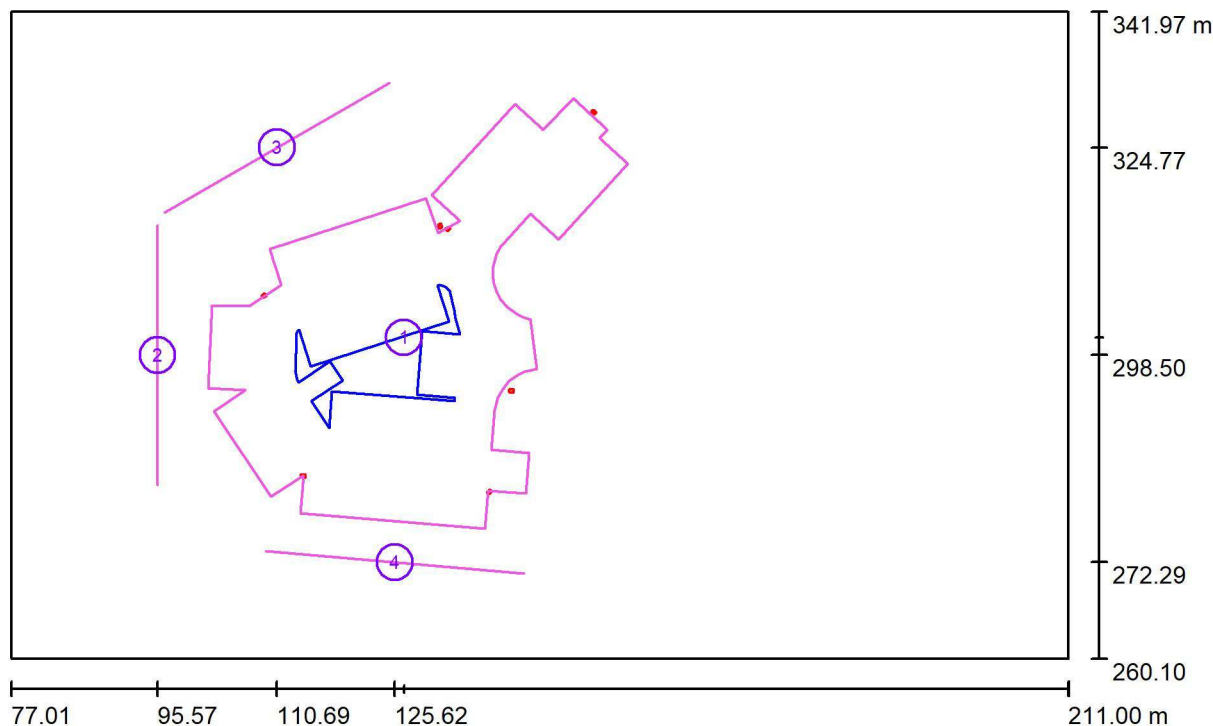
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OPTION 1: FULL OUTPUT / Calculation surfaces (results overview)



Scale 1 : 958

Calculation Surface List

No.	Designation	Type	Grid	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1	Car Park	perpendicular	19 x 13	5.47	0.31	22	0.057	0.014
2	Vertical Spill 1	perpendicular	1 x 15	0.60	0.26	0.99	0.437	0.262
3	Vertical Spill 2	perpendicular	1 x 15	0.54	0.21	1.00	0.395	0.214
4	Vertical Spill 3	perpendicular	101 x 7	0.76	0.37	1.22	0.491	0.306

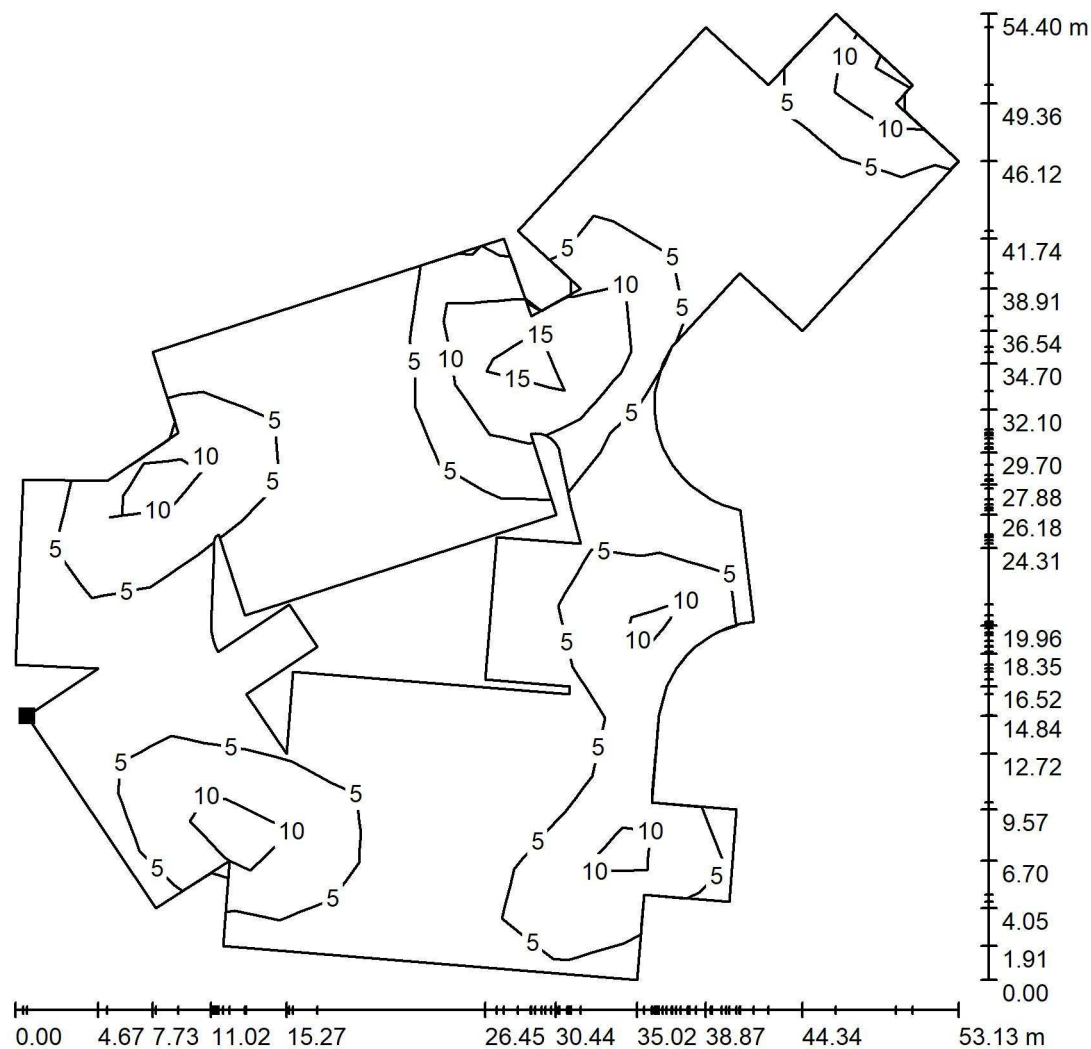
Summary of Results

Type	Quantity	Average [lx]	Min [lx]	Max [lx]	u0	E_{min} / E_{max}
perpendicular	4	4.88	0.21	22	0.04	0.01

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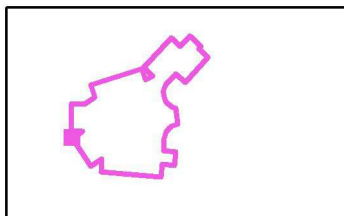
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OPTION 1: FULL OUTPUT / Car Park / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 426

Position of surface in external scene:
Marked point:
(102.694 m, 291.431 m, 0.000 m)



Grid: 19 x 13 Points

E_{av} [lx]
5.47

E_{min} [lx]
0.31

E_{max} [lx]
22

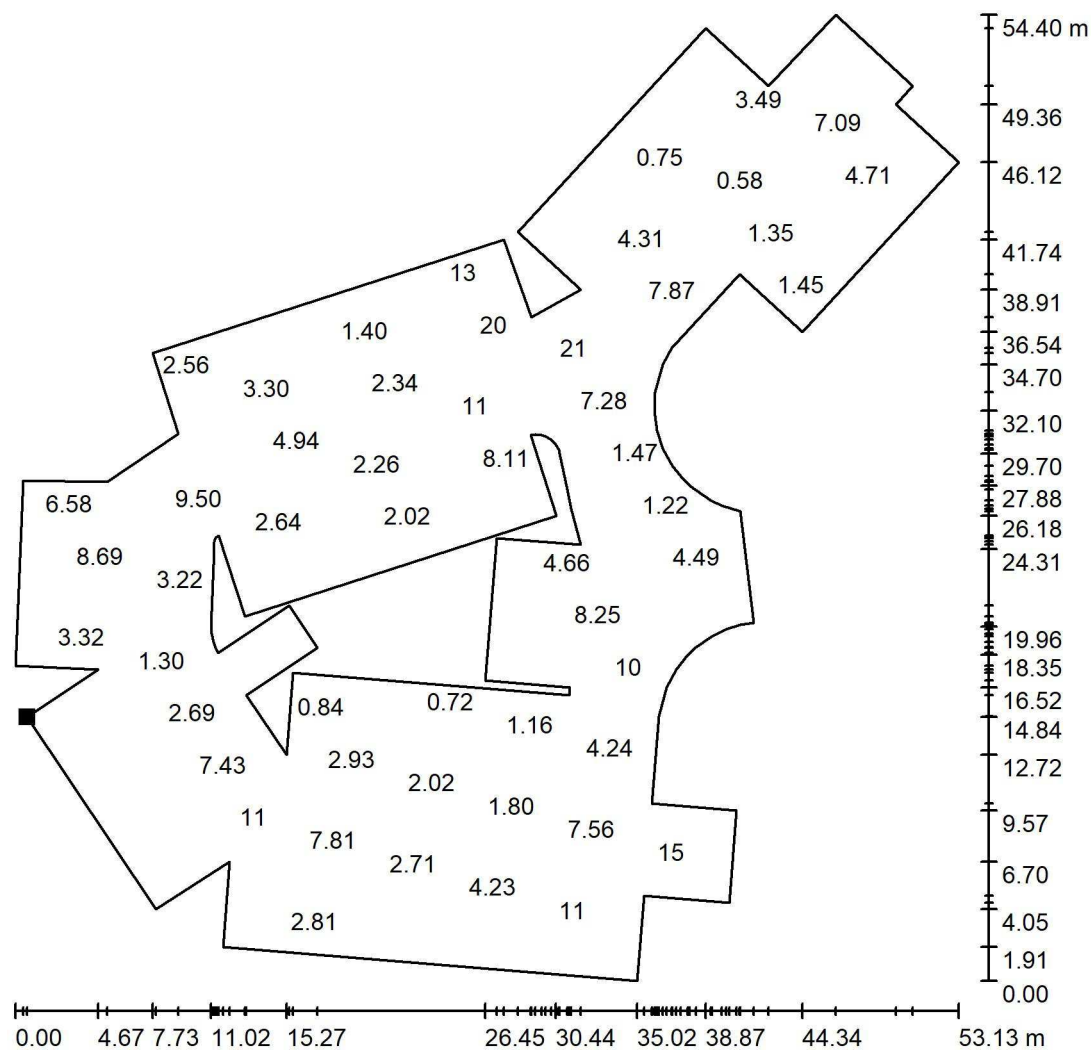
u_0
0.057

E_{min} / E_{max}
0.014

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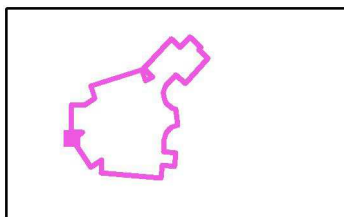
OPTION 1: FULL OUTPUT / Car Park / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 426

Not all calculated values could be displayed.

Position of surface in external scene:
Marked point:
(102.694 m, 291.431 m, 0.000 m)



Grid: 19 x 13 Points

E_{av} [lx]
5.47

E_{min} [lx]
0.31

E_{max} [lx]
22

u_0
0.057

E_{min} / E_{max}
0.014



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OPTION 2: 10% OUTPUT / Light scene 1 / Calculation surfaces (results overview)



Scale 1 : 958

Calculation Surface List

No.	Designation	Type	Grid	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1	Car Park	perpendicular	19 x 13	0.55	0.03	2.19	0.057	0.014
2	Vertical Spill 1	perpendicular	1 x 15	0.06	0.03	0.10	0.437	0.262
3	Vertical Spill 2	perpendicular	1 x 15	0.05	0.02	0.10	0.395	0.214
4	Vertical Spill 3	perpendicular	101 x 7	0.08	0.04	0.12	0.491	0.306

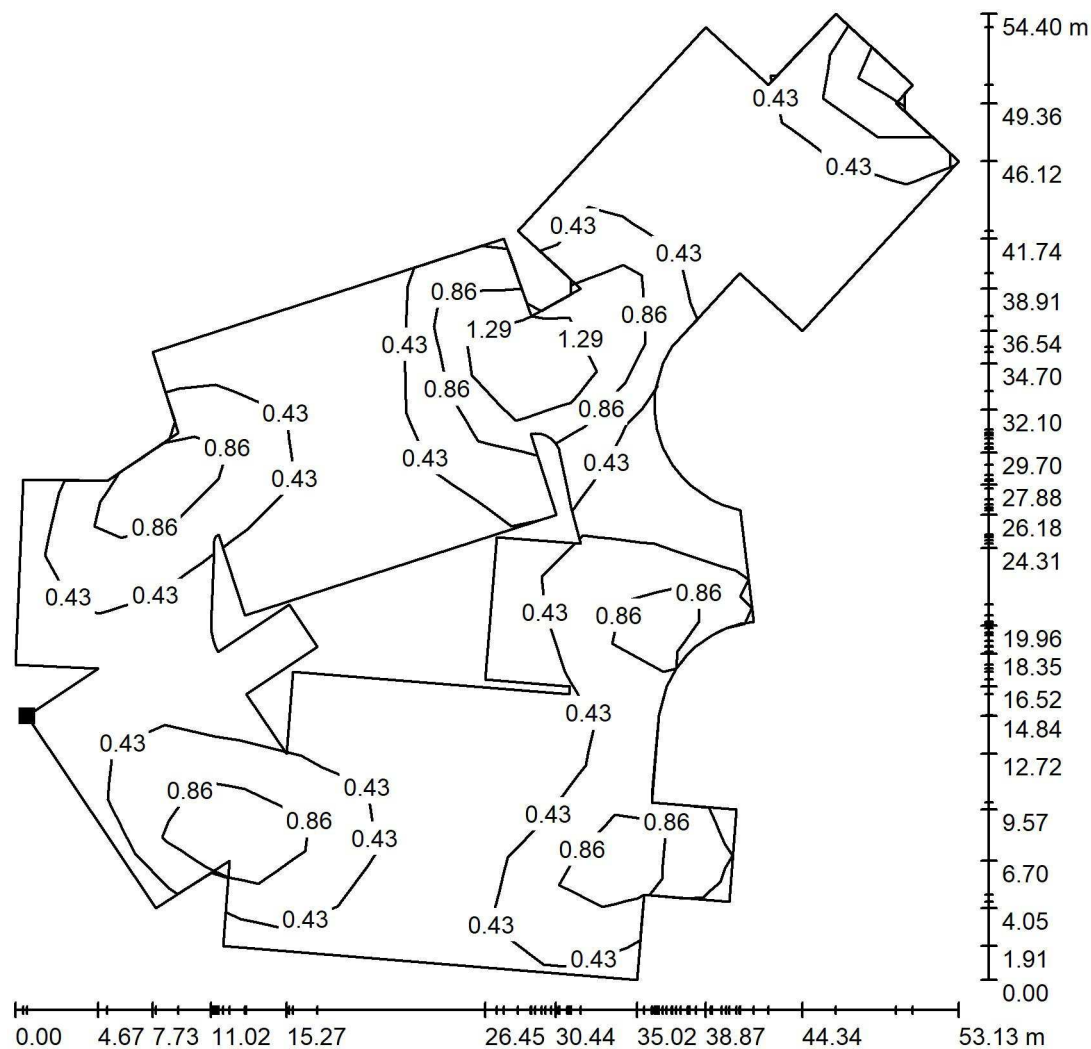
Summary of Results

Type	Quantity	Average [lx]	Min [lx]	Max [lx]	u0	E_{min} / E_{max}
perpendicular	4	0.49	0.02	2.19	0.04	0.01

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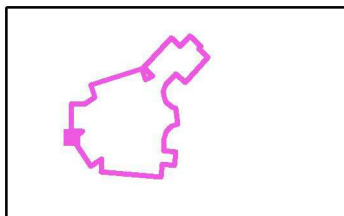
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OPTION 2: 10% OUTPUT / Light scene 1 / Car Park / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 426

Position of surface in external scene:
Marked point:
(102.694 m, 291.431 m, 0.000 m)



Grid: 19 x 13 Points

E_{av} [lx]
0.55

E_{min} [lx]
0.03

E_{max} [lx]
2.19

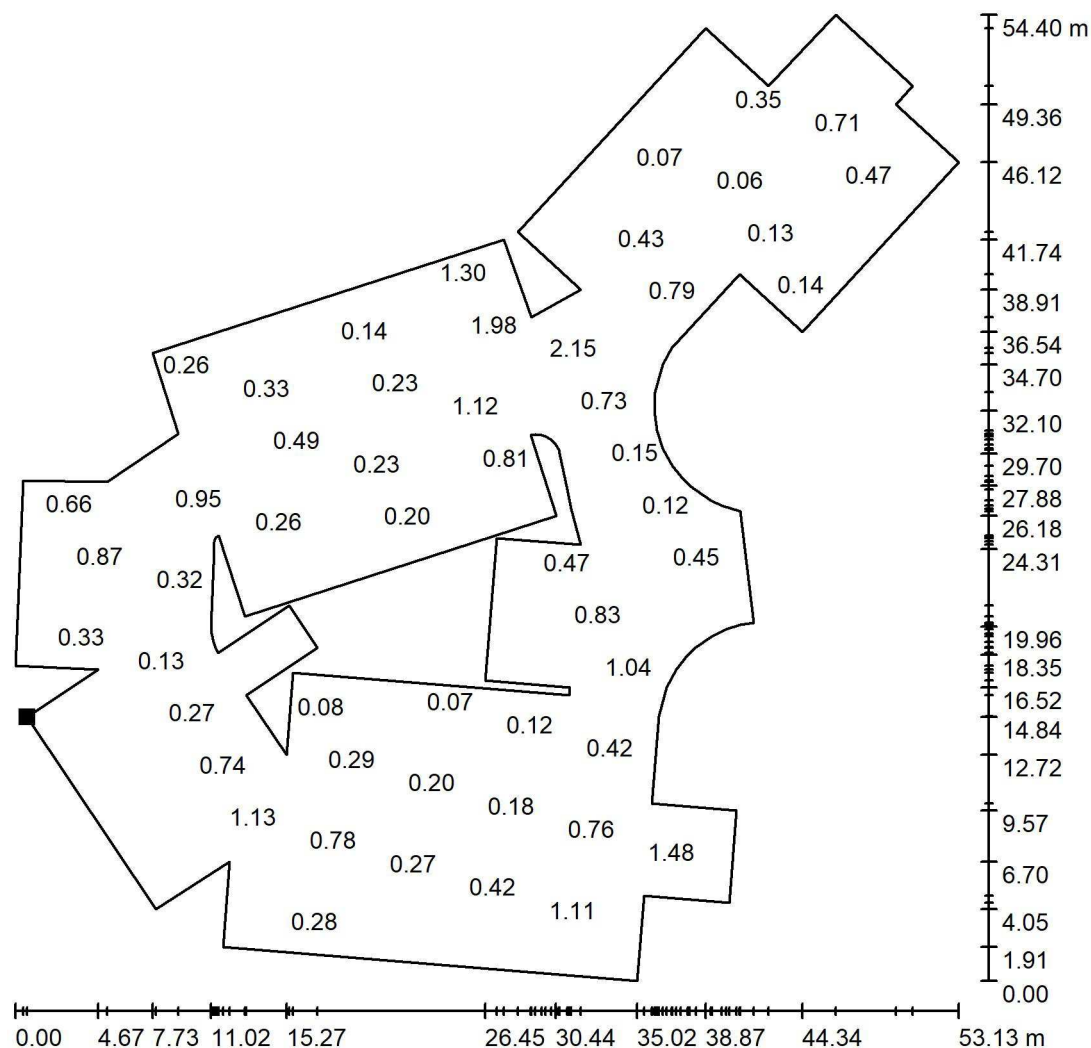
u_0
0.057

E_{min} / E_{max}
0.014

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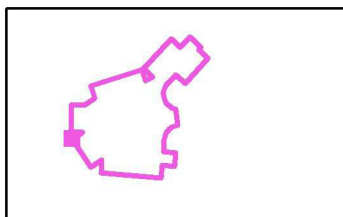
OPTION 2: 10% OUTPUT / Light scene 1 / Car Park / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 426

Not all calculated values could be displayed.

Position of surface in external scene:
Marked point:
(102.694 m, 291.431 m, 0.000 m)



Grid: 19 x 13 Points

E_{av} [lx]
0.55

E_{min} [lx]
0.03

E_{max} [lx]
2.19

u_0
0.057

E_{min} / E_{max}
0.014