



THE GATE CHURCH, READING

BUILDING SERVICES SPECIFICATION

EXTERNAL LIGHTING DIALUX REPORT



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BUILDING SERVICES SPECIFICATION

EXTERNAL LIGHTING DIALUX REPORT

Client:

The Gate Building Development Company Ltd.

Project Site Address:

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Prepared By:

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The Gate Reading

Date: 06.05.2020
Operator: Abel de Oliveira

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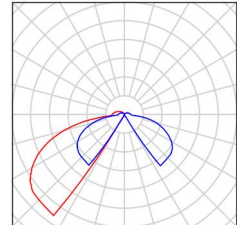
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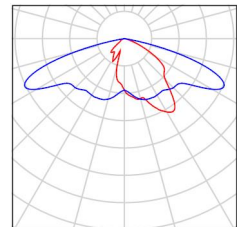
The Gate Reading / Luminaire parts list

16 Pieces Glamox O34 LED 700 740 180deg
Article No.:
Luminous flux (Luminaire): 666 lm
Luminous flux (Lamps): 665 lm
Luminaire Wattage: 12.0 W
Luminaire classification according to CIE: 91
CIE flux code: 20 59 89 91 100
Fitting: 1 x LED O34 700 740 (Correction Factor 1.000).

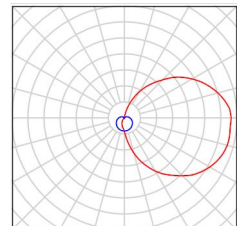


6 Pieces Glamox O487741 O48 LED 4000 840 WBA
Article No.: O487741
Luminous flux (Luminaire): 4200 lm
Luminous flux (Lamps): 4200 lm
Luminaire Wattage: 40.0 W
Luminaire classification according to CIE: 100
CIE flux code: 37 71 96 100 100
Fitting: 1 x LED O48 4000 840 (Correction Factor 1.000).

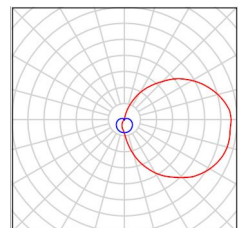
See our luminaire catalog for an image of the luminaire.



7 Pieces LUXONIC CLA320C/16W/BLK/HOOD/840
CORRILUX® 320C HOOD
Article No.: CLA320C/16W/BLK/HOOD/840
Luminous flux (Luminaire): 1649 lm
Luminous flux (Lamps): 1650 lm
Luminaire Wattage: 16.0 W
Luminaire classification according to CIE: 59
CIE flux code: 19 44 72 59 100
Fitting: 1 x LED (Correction Factor 1.000).



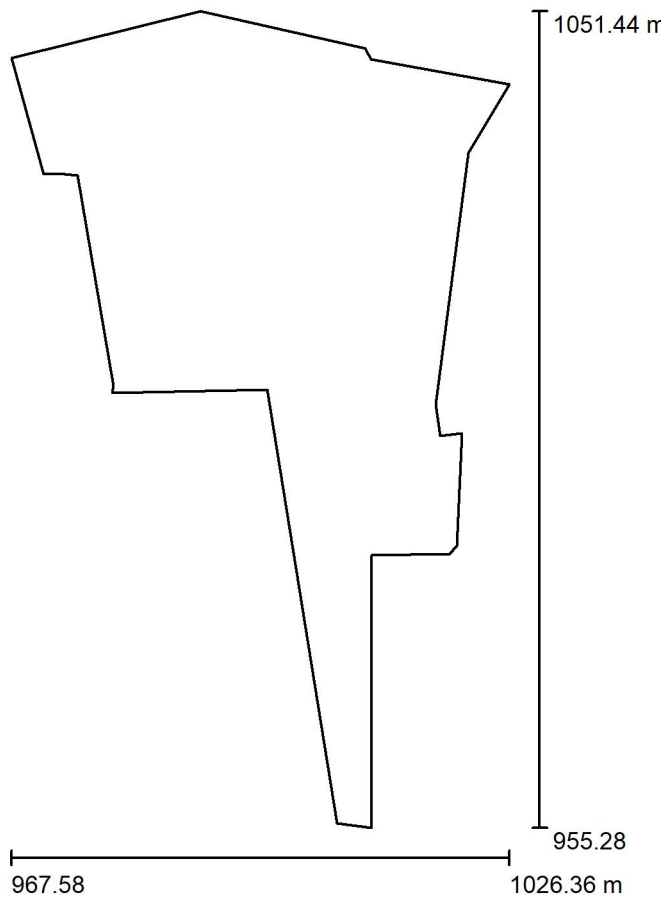
2 Pieces LUXONIC CLA320C/23W/BLK/HOOD/840
CORRILUX® 320C HOOD
Article No.: CLA320C/23W/BLK/HOOD/840
Luminous flux (Luminaire): 2199 lm
Luminous flux (Lamps): 2200 lm
Luminaire Wattage: 23.0 W
Luminaire classification according to CIE: 59
CIE flux code: 19 44 72 59 100
Fitting: 1 x LED (Correction Factor 1.000).



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Exterior Scene 1 / Planning data



Maintenance factor: 0.85, ULR (Upward Light Ratio): 11.0%

Scale 1:892

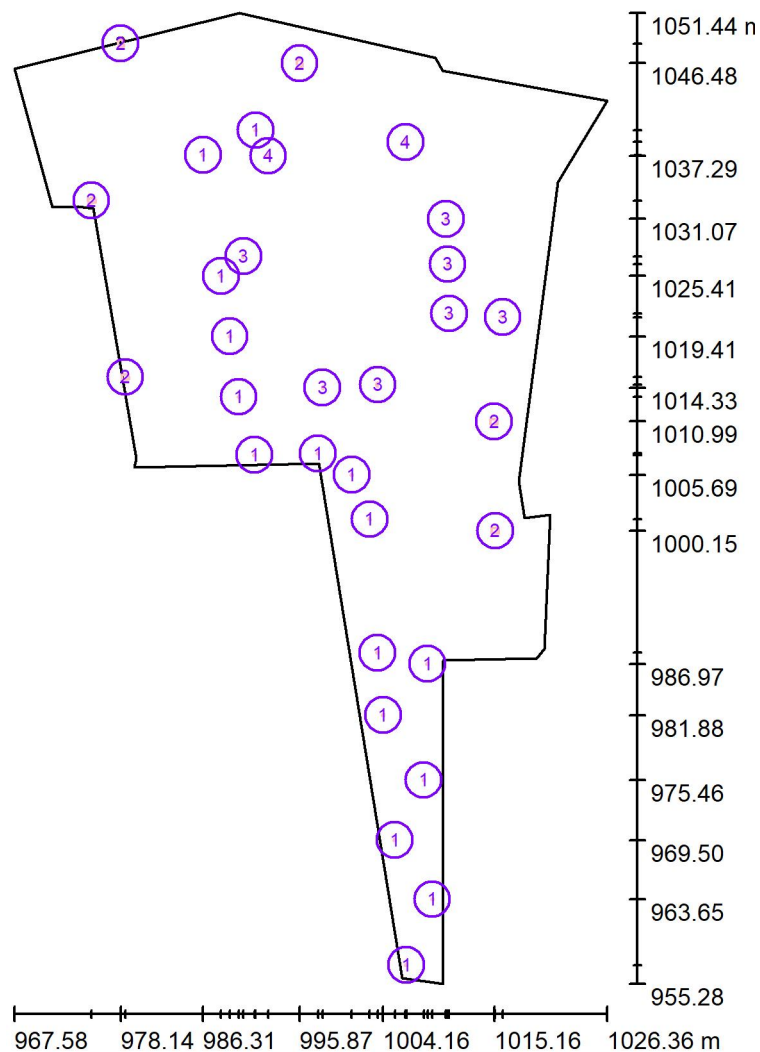
Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	16	Glamox O34 LED 700 740 180deg (1.000)	666	665	12.0
2	6	Glamox O487741 O48 LED 4000 840 WBA (1.000)	4200	4200	40.0
3	7	LUXONIC CLA320C/16W/BLK/HOOD/840 CORRILUX® 320C HOOD (1.000)	1649	1650	16.0
4	2	LUXONIC CLA320C/23W/BLK/HOOD/840 CORRILUX® 320C HOOD (1.000)	2199	2200	23.0
Total:			51795	51790	590.0

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Exterior Scene 1 / Luminaires (layout plan)



Scale 1 : 750

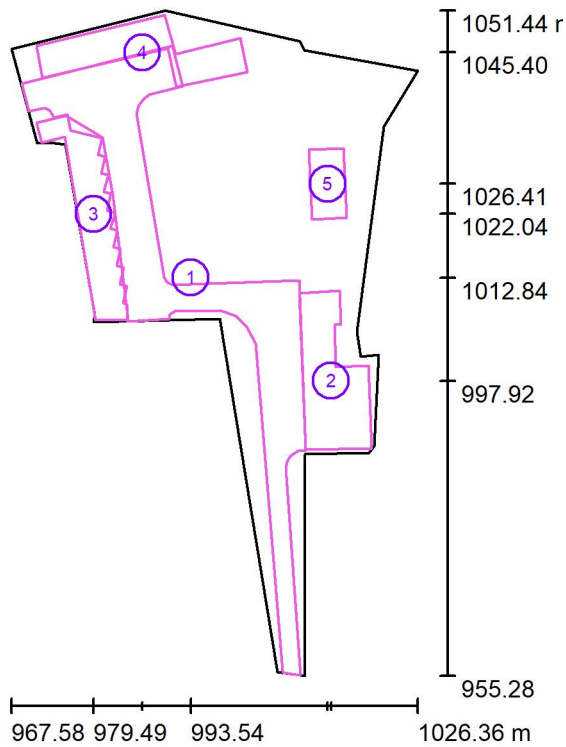
Luminaire Parts List

No.	Pieces	Designation
1	16	Glamox O34 LED 700 740 180deg
2	6	Glamox O487741 O48 LED 4000 840 WBA
3	7	LUXONIC CLA320C/16W/BLK/HOOD/840 CORRILUX® 320C HOOD
4	2	LUXONIC CLA320C/23W/BLK/HOOD/840 CORRILUX® 320C HOOD

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Exterior Scene 1 / Calculation surfaces (results overview)



Scale 1 : 1095

Calculation Surface List

No.	Designation	Type	Grid	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1	Calculation Surface 1	perpendicular	128 x 128	16	1.34	217	0.086	0.006
2	Lower Right Parking	perpendicular	128 x 64	19	1.60	48	0.082	0.033
3	Left Parking	perpendicular	128 x 64	22	4.95	42	0.225	0.118
4	Top Parking	perpendicular	128 x 128	24	4.98	184	0.206	0.027
5	External Entertaining Space	perpendicular	64 x 32	32	7.89	87	0.248	0.091

Summary of Results

Type	Quantity	Average [lx]	Min [lx]	Max [lx]	$u0$	E_{min} / E_{max}
perpendicular	5	19	1.34	217	0.07	0.01

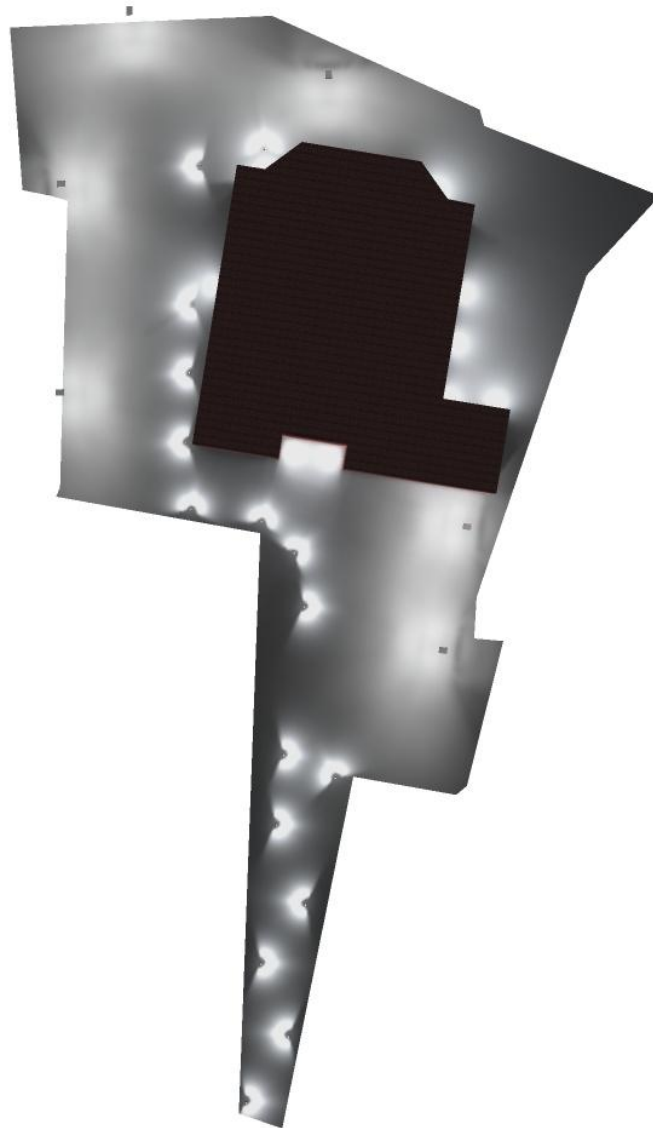


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Exterior Scene 1 / 3D Rendering

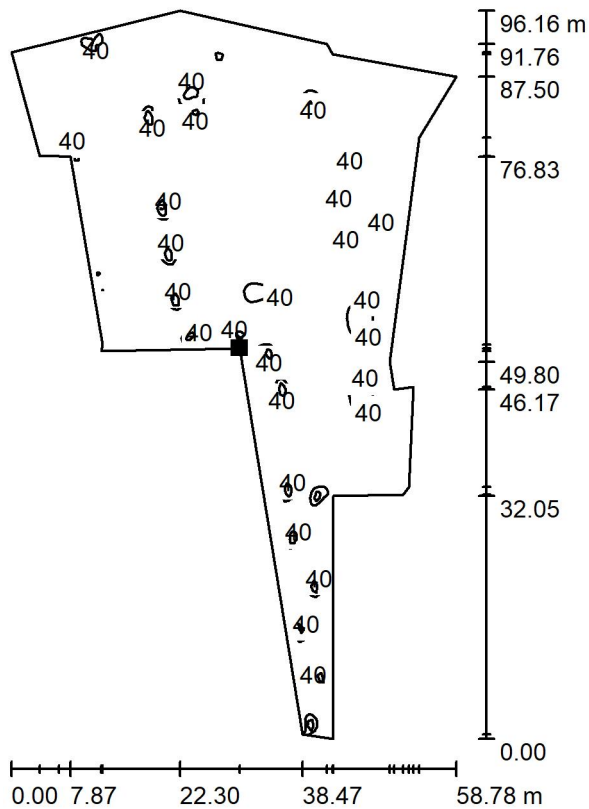


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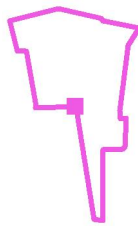
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Exterior Scene 1 / Ground Element 1 / Surface 1 / Isolines (E)



Values in Lux, Scale 1 : 1000

Position of surface in external scene:
Marked point:
(997.768 m, 1006.835 m, 0.000 m)



Grid: 128 x 128 Points

E_{av} [lx]
13

E_{min} [lx]
0.00

E_{max} [lx]
200

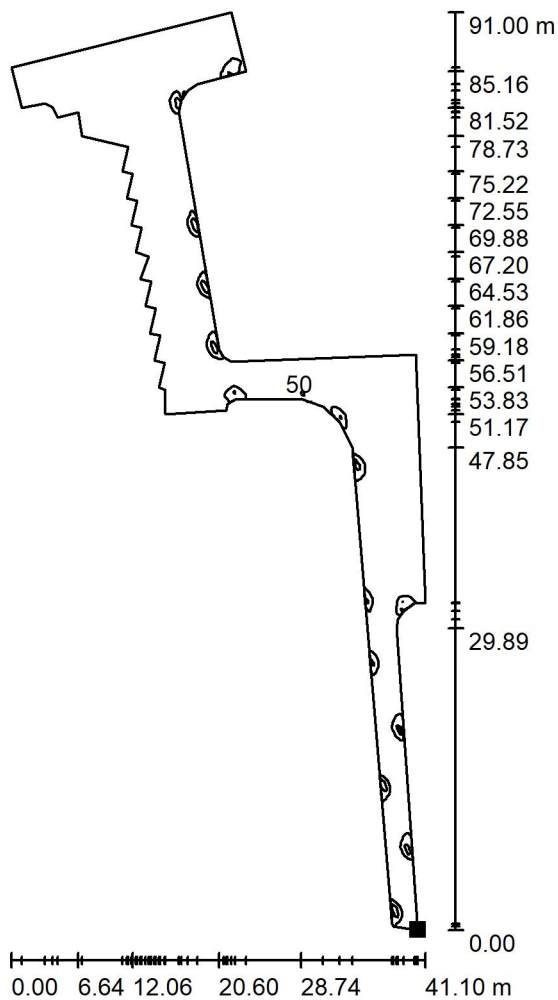
u_0
0.000

E_{min} / E_{max}
0.000

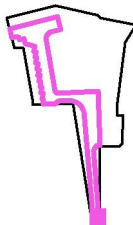
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Exterior Scene 1 / Calculation Surface 1 / Isolines (E, Perpendicular)



Position of surface in external scene:
Marked point:
(1009.428 m, 955.379 m, 0.000 m)



Values in Lux, Scale 1 : 750

Grid: 128 x 128 Points

E_{av} [lx]
16

E_{min} [lx]
1.34

E_{max} [lx]
217

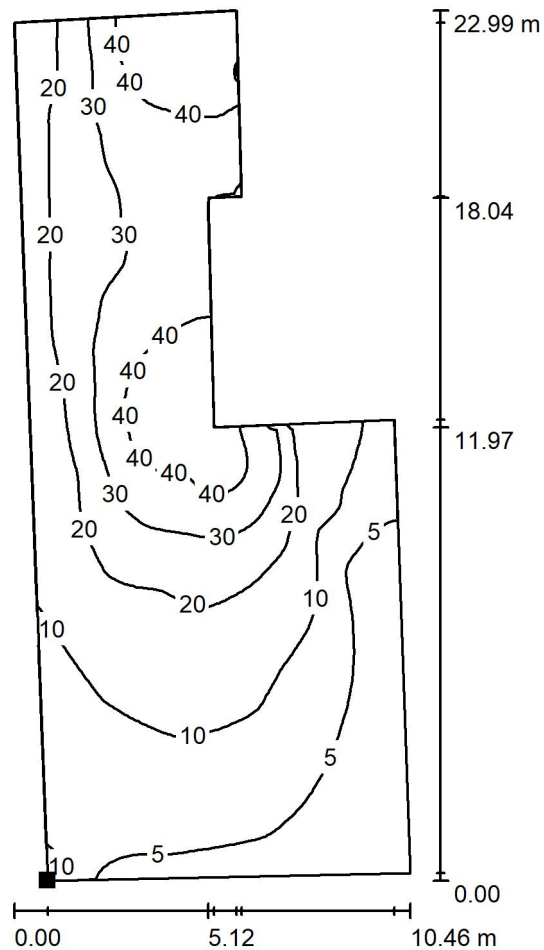
u_0
0.086

E_{min} / E_{max}
0.006

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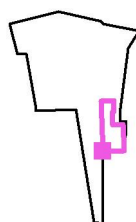
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Exterior Scene 1 / Lower Right Parking / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 200

Position of surface in external scene:
Marked point:
(1010.136 m, 987.974 m, 0.000 m)



Grid: 128 x 64 Points

E_{av} [lx]
19

E_{min} [lx]
1.60

E_{max} [lx]
48

u_0
0.082

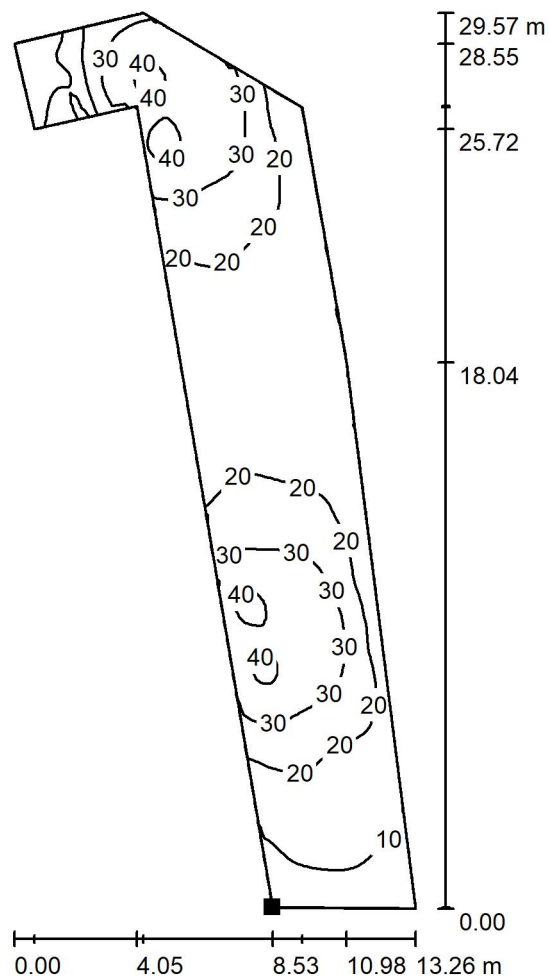
E_{min} / E_{max}
0.033

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Exterior Scene 1 / Left Parking / Isolines (E, Perpendicular)

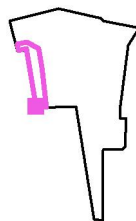


Values in Lux, Scale 1 : 250

Position of surface in external scene:

Marked point:

(979.804 m, 1006.730 m, 0.000 m)



Grid: 128 x 64 Points

E_{av} [lx]
22

E_{min} [lx]
4.95

E_{max} [lx]
42

u_0
0.225

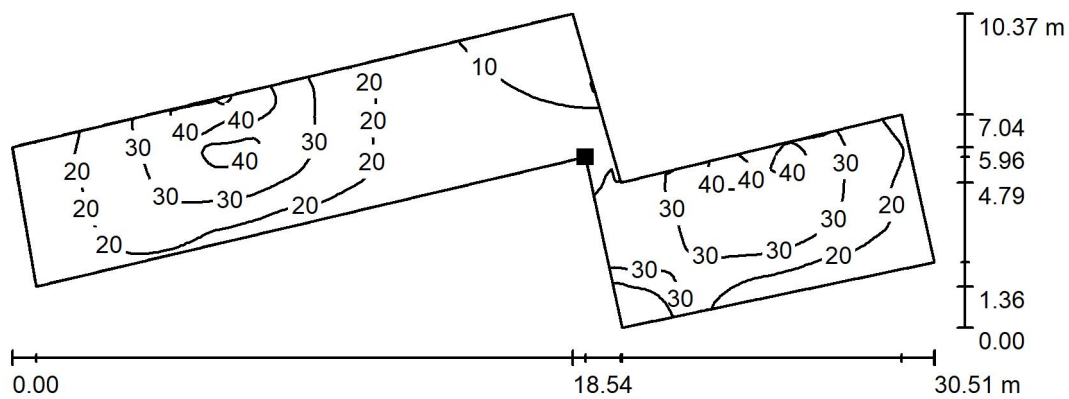
E_{min} / E_{max}
0.118

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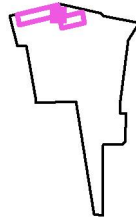
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Exterior Scene 1 / Top Parking / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 250

Position of surface in external scene:
 Marked point:
 (990.230 m, 1046.028 m, 0.000 m)



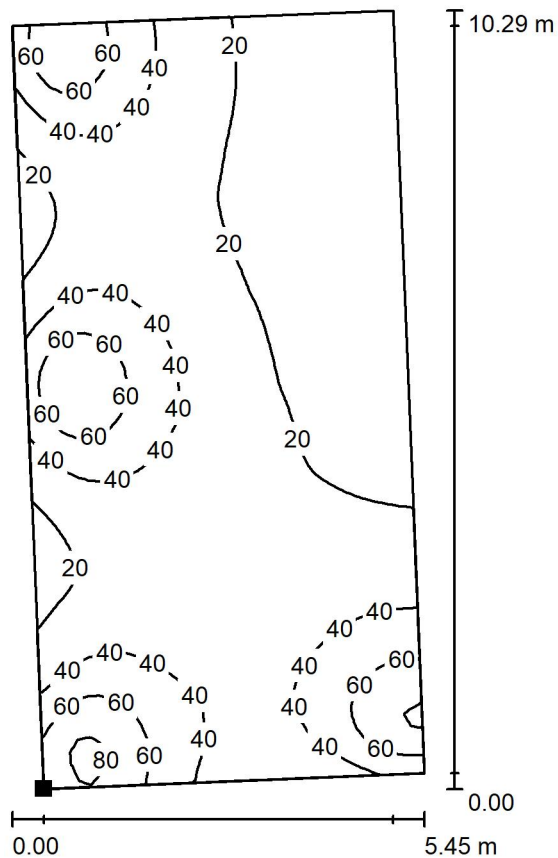
Grid: 128 x 128 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
24	4.98	184	0.206	0.027

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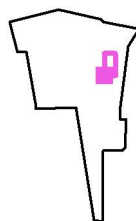
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Exterior Scene 1 / External Entertaining Space / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 100

Position of surface in external scene:
Marked point:
(1011.047 m, 1021.264 m, 0.000 m)



Grid: 64 x 32 Points

E_{av} [lx]
32

E_{min} [lx]
7.89

E_{max} [lx]
87

u_0
0.248

E_{min} / E_{max}
0.091