

Buckingham Hotel

Partner for Contact:
Order No.:
Company:
Customer No.:

Date: 18.05.2018
Operator: Carolina Sanz

Thorlux Lighting
FW Thorpe Plc
North Moons Moat, Merse Rd,
Redditch B98 9HH

Operator Carolina Sanz
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THORLUX RL17578 Realta LED - Polycarbonate Cover - 18W 4000K / Luminous intensity table

Luminaire: THORLUX RL17578 Realta LED - Polycarbonate Cover - 18W 4000K

Lamps: 1 x Realta LED 18W 4000K

Gamma	C 0°	C 15°	C 30°	C 45°	C 60°	C 75°	C 90°	C 105°	C 120°	C 135°
0.0°	171	171	171	171	171	171	171	171	171	171
5.0°	180	177	177	179	180	178	176	174	173	171
10.0°	183	181	189	185	181	177	173	170	166	165
15.0°	186	186	189	184	184	181	179	175	167	160
20.0°	189	195	189	189	189	190	187	178	165	153
25.0°	187	193	188	194	197	199	194	178	161	142
30.0°	185	189	190	198	204	212	198	172	154	129
35.0°	181	183	186	200	218	228	196	165	143	114
40.0°	170	171	181	198	242	258	202	180	132	96
45.0°	157	159	172	194	277	335	252	145	139	93
50.0°	143	145	161	184	297	471	279	177	126	104
55.0°	126	130	146	172	321	806	483	162	113	78
60.0°	104	113	132	152	315	1255	721	157	100	38
65.0°	77	94	117	165	347	1311	708	109	64	24
70.0°	51	72	102	139	310	1006	478	90	44	15
75.0°	32	57	97	114	185	588	222	59	28	7.00
80.0°	22	47	75	105	97	269	118	34	13	4.00
85.0°	19	37	38	57	60	101	58	16	5.70	4.40
90.0°	12	18	20	26	29	38	24	7.00	3.70	4.50

Values in cd/klm

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THORLUX RL17578 Realta LED - Polycarbonate Cover - 18W 4000K / Luminous intensity table

Luminaire: THORLUX RL17578 Realta LED - Polycarbonate Cover - 18W 4000K
Lamps: 1 x Realta LED 18W 4000K

Gamma	C 150°	C 165°	C 180°
0.0°	171	171	171
5.0°	169	166	161
10.0°	164	161	152
15.0°	155	152	142
20.0°	142	136	124
25.0°	125	112	101
30.0°	104	85	79
35.0°	88	112	131
40.0°	133	138	110
45.0°	139	105	85
50.0°	86	69	53
55.0°	30	17	14
60.0°	14	14	8.10
65.0°	8.30	6.70	5.40
70.0°	5.10	4.60	4.60
75.0°	4.60	5.50	5.50
80.0°	5.10	6.40	6.40
85.0°	5.40	5.80	6.70
90.0°	5.00	5.50	9.30

Values in cd/klm

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THORLUX STF17569 Starflood LED - 20W - 4000K / Luminous intensity table

Luminaire: THORLUX STF17569 Starflood LED - 20W - 4000K

Lamps: 1 x Starflood LED - 20W - 4000K

Gamma	C 0°	C 15°	C 30°	C 45°	C 60°	C 75°	C 90°	C 105°	C 120°	C 135°
0.0°	159	159	159	159	159	159	159	159	159	159
5.0°	196	199	194	187	182	172	162	151	139	130
10.0°	238	238	229	216	202	183	162	139	118	102
15.0°	286	283	268	247	221	193	162	129	100	78
20.0°	335	331	312	282	244	204	163	120	85	60
25.0°	383	375	351	316	273	225	171	116	70	54
30.0°	431	419	394	357	321	267	202	124	66	54
35.0°	478	467	445	416	383	334	246	141	71	59
40.0°	530	519	497	482	456	386	277	147	71	67
45.0°	589	578	556	556	500	386	266	138	68	72
50.0°	578	592	618	626	467	324	210	107	67	66
55.0°	500	534	618	622	401	248	155	83	65	56
60.0°	394	445	541	519	321	182	115	67	58	45
65.0°	208	261	386	372	211	117	71	43	41	34
70.0°	102	123	179	194	106	61	37	21	24	23
75.0°	54	67	85	81	50	26	16	13	15	17
80.0°	32	40	51	39	21	13	9.20	8.24	9.46	11
85.0°	22	30	36	26	14	8.32	5.56	5.41	6.37	6.44
90.0°	17	21	19	13	7.69	5.08	3.41	3.40	3.79	3.75

Values in cd/klm

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THORLUX STF17569 Starflood LED - 20W - 4000K / Luminous intensity table

Luminaire: THORLUX STF17569 Starflood LED - 20W - 4000K

Lamps: 1 x Starflood LED - 20W - 4000K

Gamma	C 150°	C 165°	C 180°	C 195°	C 210°	C 225°	C 240°	C 255°	C 270°	C 285°
0.0°	159	159	159	159	159	159	159	159	159	159
5.0°	122	115	103	106	113	120	134	147	161	176
10.0°	89	80	69	72	82	93	112	134	160	185
15.0°	63	56	54	55	59	70	95	124	159	194
20.0°	53	51	50	51	53	57	78	115	160	203
25.0°	51	50	50	51	52	53	66	111	167	224
30.0°	53	52	52	54	55	55	63	116	195	270
35.0°	60	55	55	57	61	61	66	128	237	332
40.0°	63	56	57	59	64	71	68	133	267	386
45.0°	60	56	59	60	62	75	67	126	265	390
50.0°	54	54	61	59	58	67	70	103	216	329
55.0°	48	52	60	58	52	57	68	81	163	256
60.0°	42	47	55	53	45	48	62	68	123	195
65.0°	34	39	43	44	37	38	49	53	88	140
70.0°	25	25	21	28	28	26	29	25	47	83
75.0°	16	11	4.71	11	18	19	18	16	22	36
80.0°	8.35	4.38	0.82	4.19	8.98	13	11	10	12	17
85.0°	4.89	2.45	0.57	2.41	5.11	7.47	7.21	6.29	6.22	9.38
90.0°	2.91	1.39	0.44	1.27	2.85	3.94	4.08	3.68	3.26	5.37

Values in cd/klm

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THORLUX STF17569 Starflood LED - 20W - 4000K / Luminous intensity table

Luminaire: THORLUX STF17569 Starflood LED - 20W - 4000K

Lamps: 1 x Starflood LED - 20W - 4000K

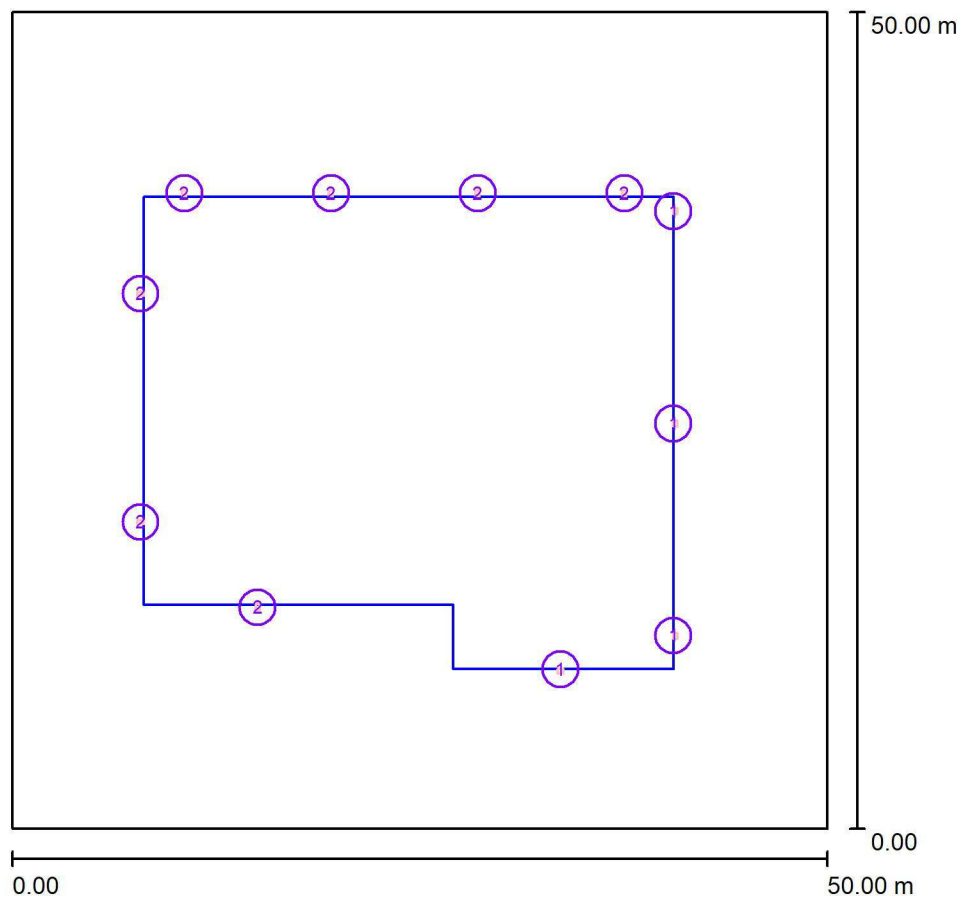
Gamma	C 300°	C 315°	C 330°	C 345°	C 360°
0.0°	159	159	159	159	159
5.0°	186	196	202	205	196
10.0°	205	224	237	245	238
15.0°	224	255	278	292	286
20.0°	247	290	320	339	335
25.0°	276	324	361	383	383
30.0°	323	367	405	434	431
35.0°	386	431	456	482	478
40.0°	456	493	511	537	530
45.0°	511	570	574	596	589
50.0°	486	640	637	607	578
55.0°	423	648	648	556	500
60.0°	348	541	592	464	394
65.0°	243	401	427	245	208
70.0°	138	228	211	132	102
75.0°	66	100	95	74	54
80.0°	29	46	58	46	32
85.0°	15	28	40	36	22
90.0°	8.28	13	19	22	17

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Exterior Scene 1 / Planning data



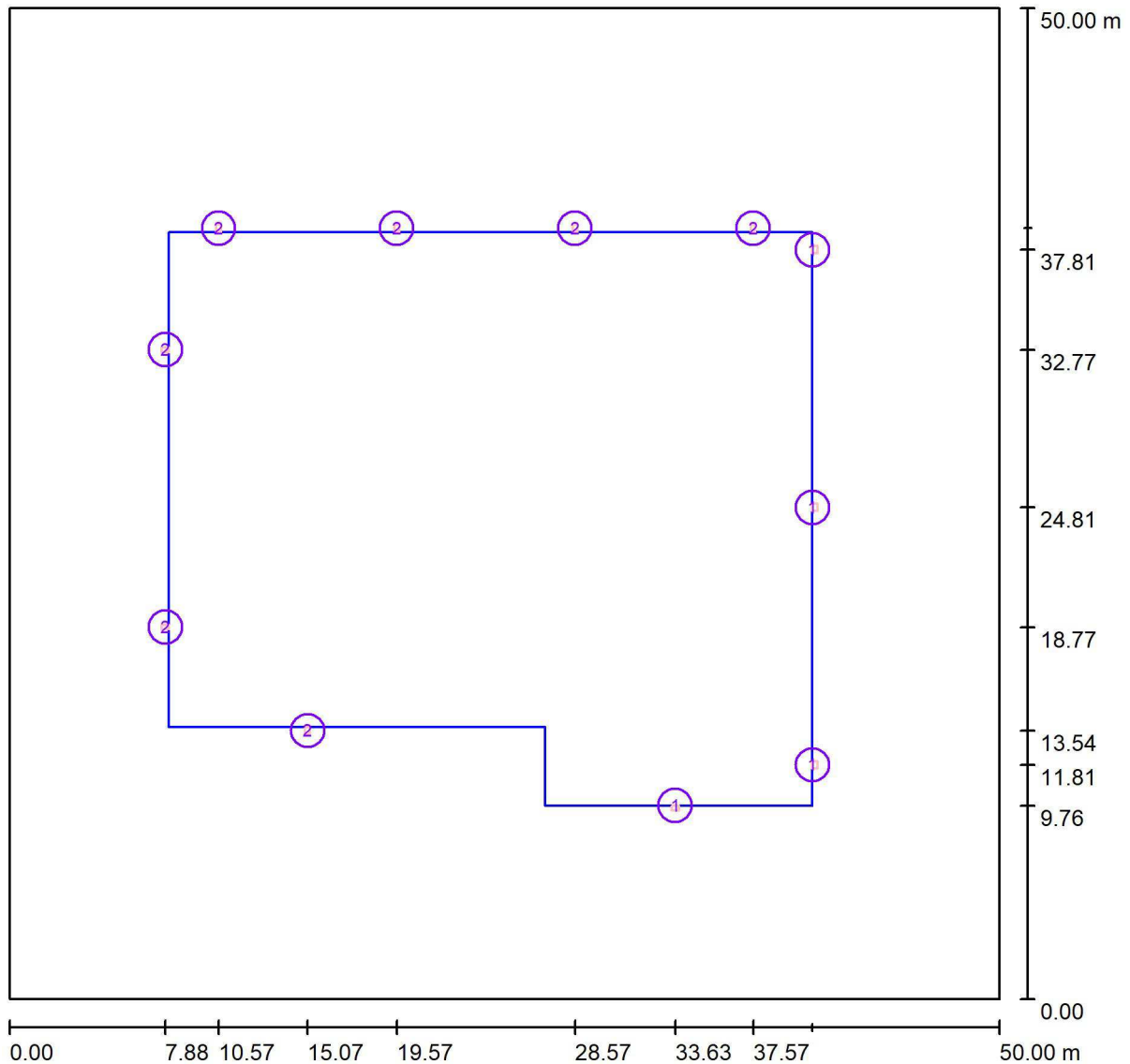
Maintenance factor: 0.80, ULR (Upward Light Ratio): 1.5%

Scale 1:464

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	4	THORLUX RL17578 Realta LED - Polycarbonate Cover - 18W 4000K (1.000)	1300	1300	21.0
2	7	THORLUX STF17569 Starflood LED - 20W - 4000K (1.000)	2510	2510	23.0
Total:			22770	22770	245.0

Exterior Scene 1 / Luminaires (layout plan)



Scale 1 : 358

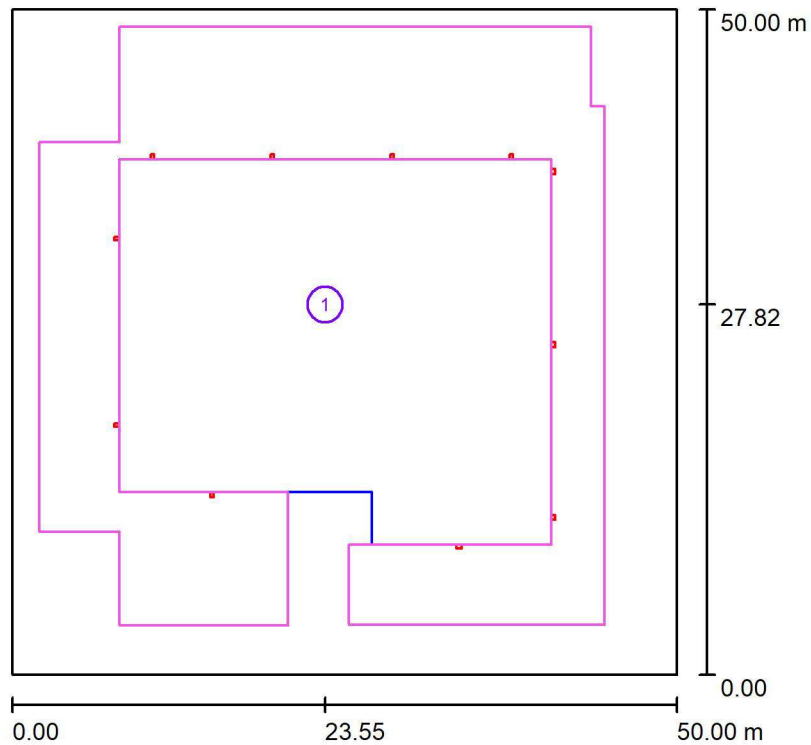
Luminaire Parts List

No.	Pieces	Designation
1	4	THORLUX RL17578 Realta LED - Polycarbonate Cover - 18W 4000K
2	7	THORLUX STF17569 Starflood LED - 20W - 4000K

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Exterior Scene 1 / Calculation surfaces (results overview)



Scale 1 : 569

Calculation Surface List

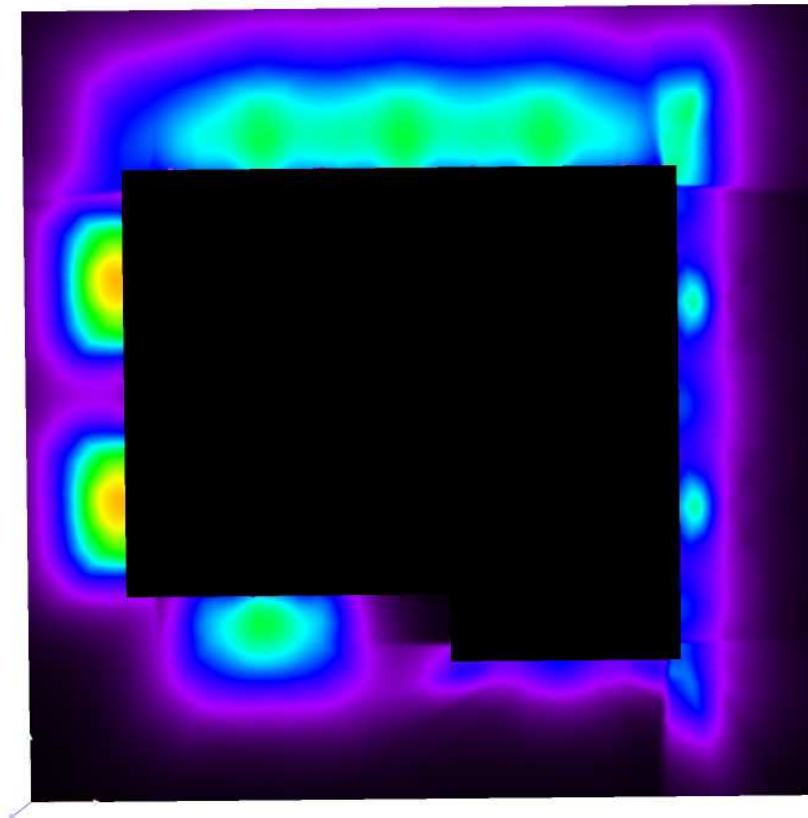
No.	Designation	Type	Grid	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1	Calculation Surface 1	perpendicular	15 x 16	13	2.06	36	0.157	0.057



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Exterior Scene 1 / False Colour Rendering

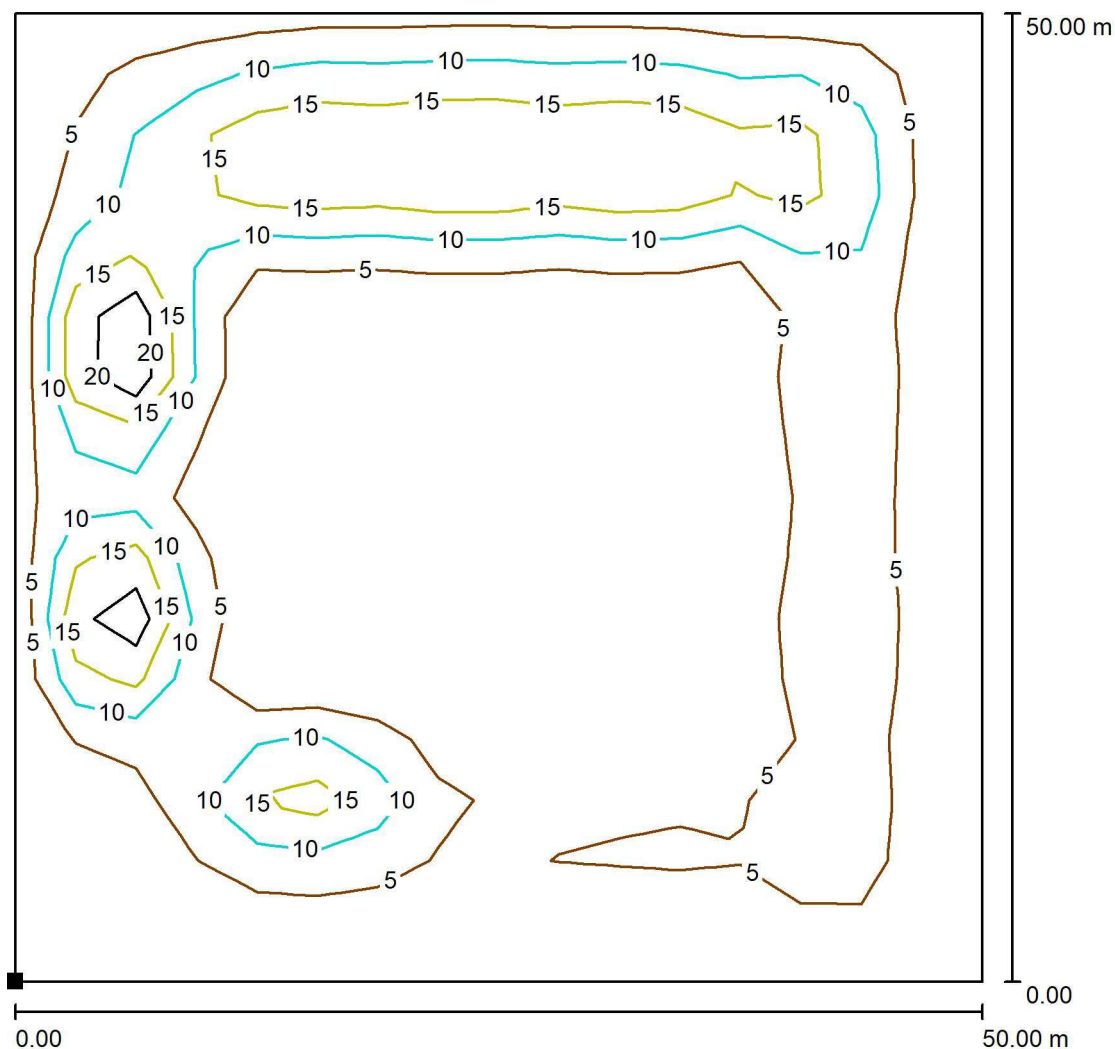


lx

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

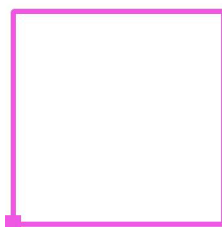


Values in Lux, Scale 1 : 391

Position of surface in external scene:

Marked point:

(0.000 m, 0.000 m, 0.000 m)



Grid: 16 x 16 Points

E_{av} [lx]
5.84

E_{min} [lx]
0.00

E_{max} [lx]
32

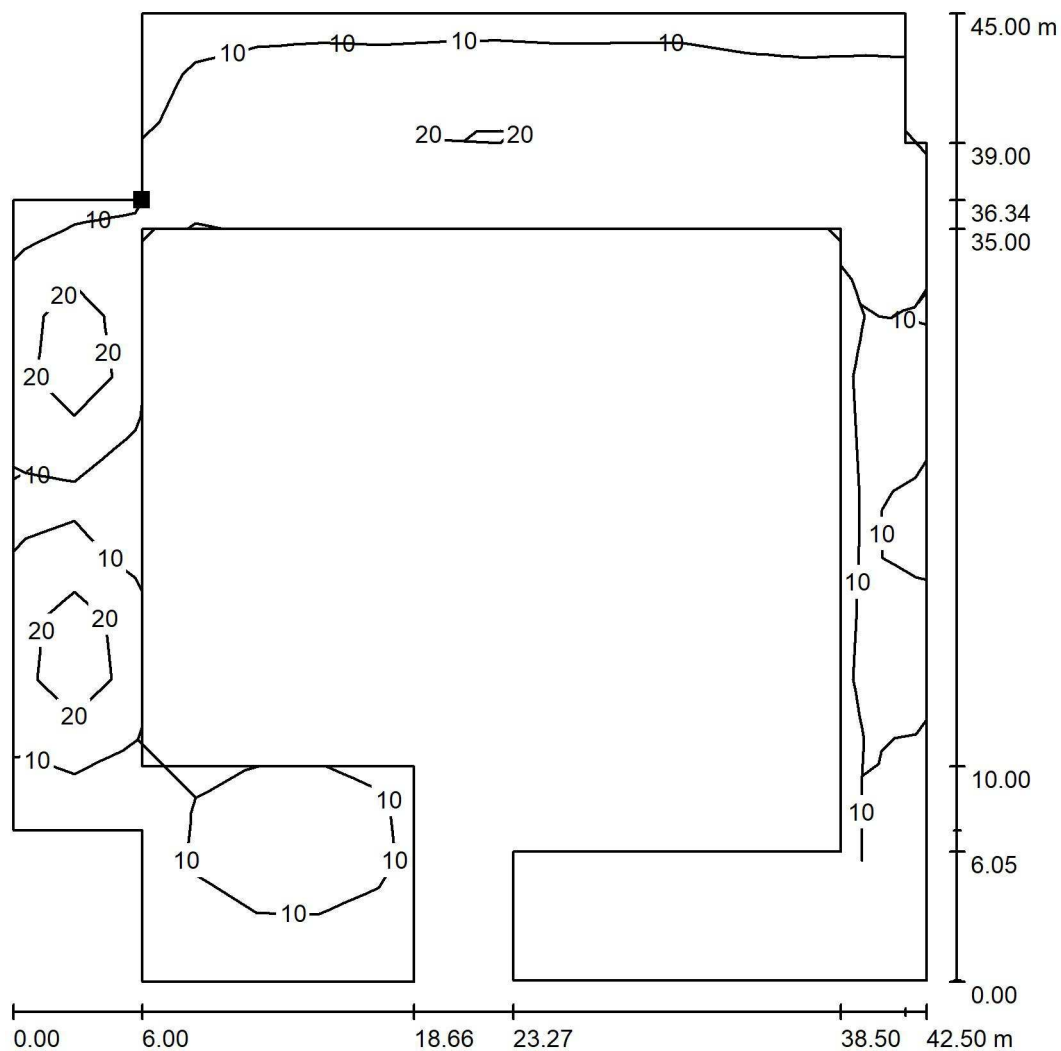
u_0
0.000

E_{min} / E_{max}
0.000

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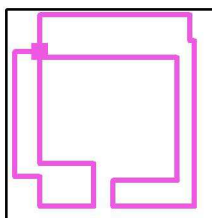
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Exterior Scene 1 / Calculation Surface 1 / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 352

Position of surface in external scene:
Marked point:
(8.068 m, 40.049 m, 0.000 m)



Grid: 15 x 16 Points

E_{av} [lx]
13

E_{min} [lx]
2.06

E_{max} [lx]
36

u_0
0.157

E_{min} / E_{max}
0.057