Sutton Benger RFC Project

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

Date: 15.10.2024
Operator:

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Exterior Scene 1 / Planning data



Maintenance factor: 0.90, ULR (Upward Light Ratio): 2.0%

Scale 1:525

Luminaire Parts List

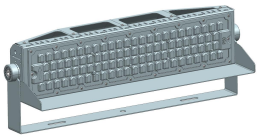
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	6	LEDLUXSP-250-P50 (1.000)	34482	34528	250.4
*Modified Technical Specifications			Total: 206892	Total: 207168	1502.4

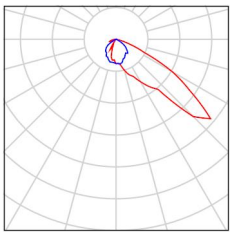
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Exterior Scene 1 / Luminaire parts list

6 Pieces LEDLUXSP-250-P50
Article No.:
Luminous flux (Luminaire): 34482 lm
Luminous flux (Lamps): 34528 lm
Luminaire Wattage: 250.4 W
Luminaire classification according to CIE: 100
CIE flux code: 46 89 99 100 100
Fitting: 1 x LEDLUXSP-250-P50 (Correction Factor 1.000).

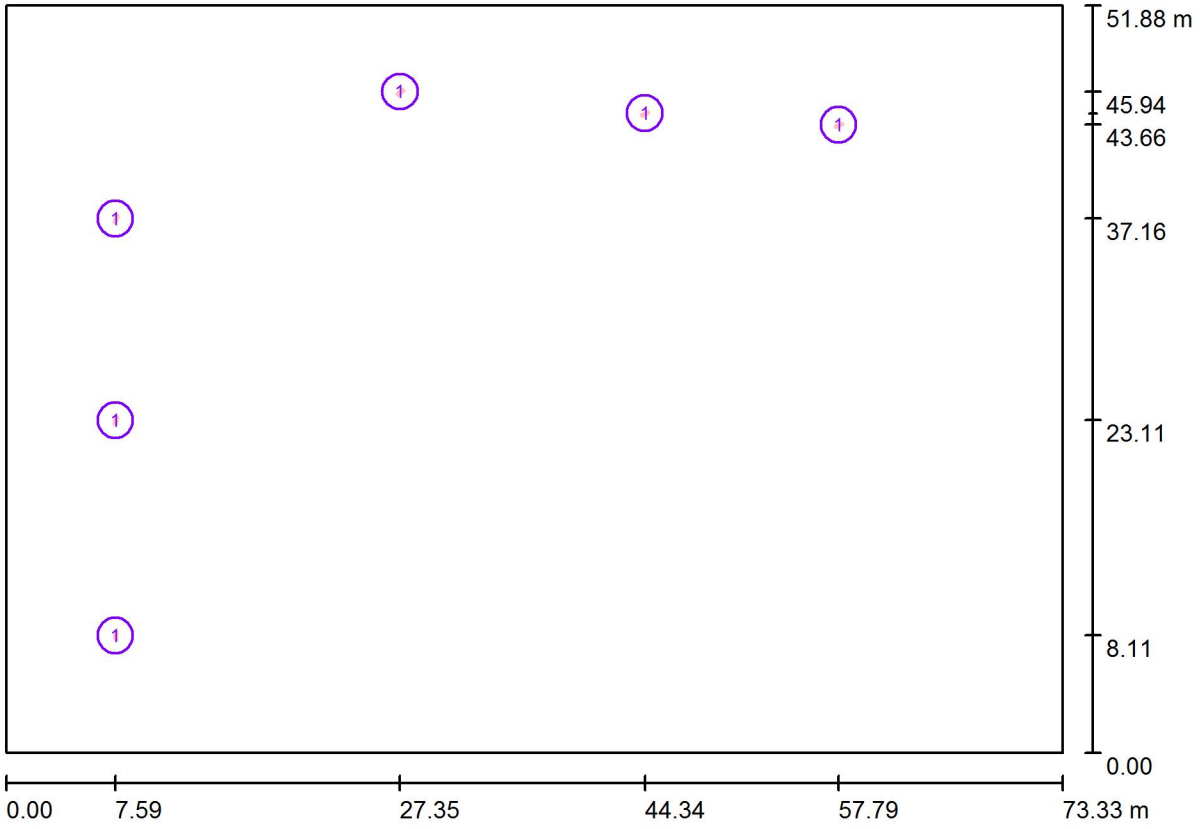
See our luminaire catalog for an image of the luminaire.





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Exterior Scene 1 / Luminaires (layout plan)



Scale 1 : 525

Luminaire Parts List

No.	Pieces	Designation
1	6	LEDLUXSP-250-P50

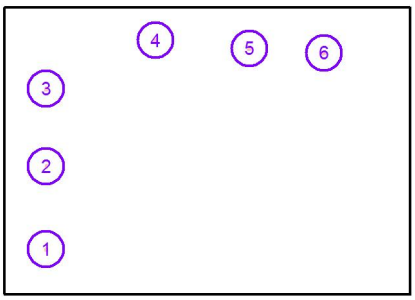
*Modified Technical Specifications

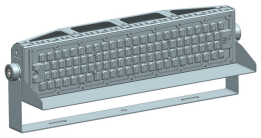
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Exterior Scene 1 / Luminaires (coordinates list)

LEDLUXSP-250-P50

34482 lm, 250.4 W, 1 x 1 x LEDLUXSP-250-P50 (Correction Factor 1.000).

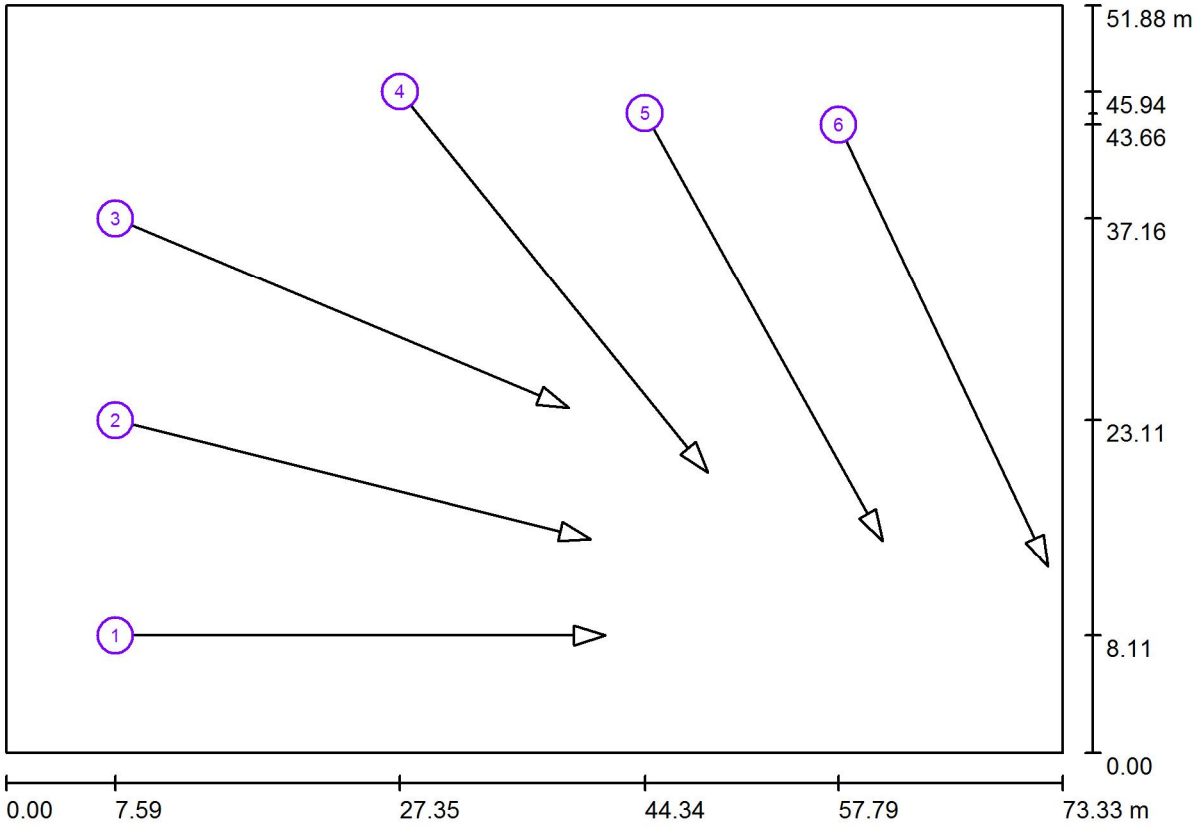




No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	7.589	8.114	6.000	0.0	-30.0	0.0
2	7.588	23.107	6.000	0.0	-30.0	-14.1
3	7.588	37.159	6.000	0.0	-30.0	-22.7
4	27.346	45.943	6.000	0.0	-30.0	-51.1
5	44.336	44.439	6.000	0.0	-30.0	-61.0
6	57.788	43.656	6.000	0.0	-30.0	-64.7

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Exterior Scene 1 / Sport Luminaires (Coordinates List)



Scale 1 : 525

List of the Sport Luminaires

Luminaire	Index	Position [m] X	Y	Z	Aiming Point [m] X	Y	Z	Angle [°]	Alignment	Pole
LEDLUXSP-250-P50	1	7.589	8.114	6.000	41.616	8.114	0.000	30.0	(C 0, G IMax)	/
LEDLUXSP-250-P50	2	7.588	23.107	6.000	40.597	14.841	0.000	30.0	(C 0, G IMax)	/
LEDLUXSP-250-P50	3	7.588	37.159	6.000	39.076	23.973	0.000	30.0	(C 0, G IMax)	/
LEDLUXSP-250-P50	4	27.346	45.943	6.000	48.709	19.457	0.000	30.0	(C 0, G IMax)	/

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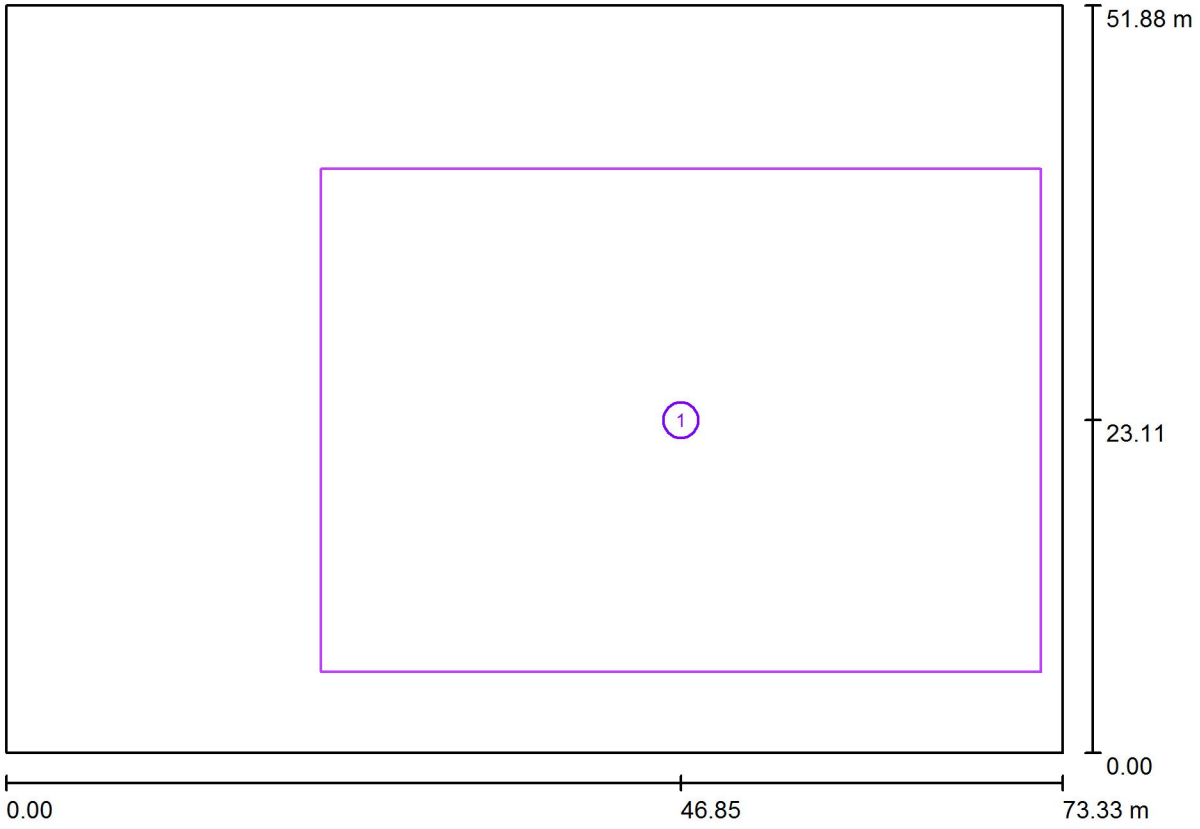
Exterior Scene 1 / Sport Luminaires (Coordinates List)

List of the Sport Luminaires

Luminaire	Index	Position [m] X	Y	Z	Aiming Point [m] X	Y	Z	Angle [°]	Alignment	Pole
LEDLUXSP-250-P50	5	44.336	44.439	6.000	60.856	14.691	0.000	30.0	(C 0, G IMax)	/
LEDLUXSP-250-P50	6	57.788	43.656	6.000	72.330	12.893	0.000	30.0	(C 0, G IMax)	/

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Exterior Scene 1 / Calculation Grid (Coordinates List)



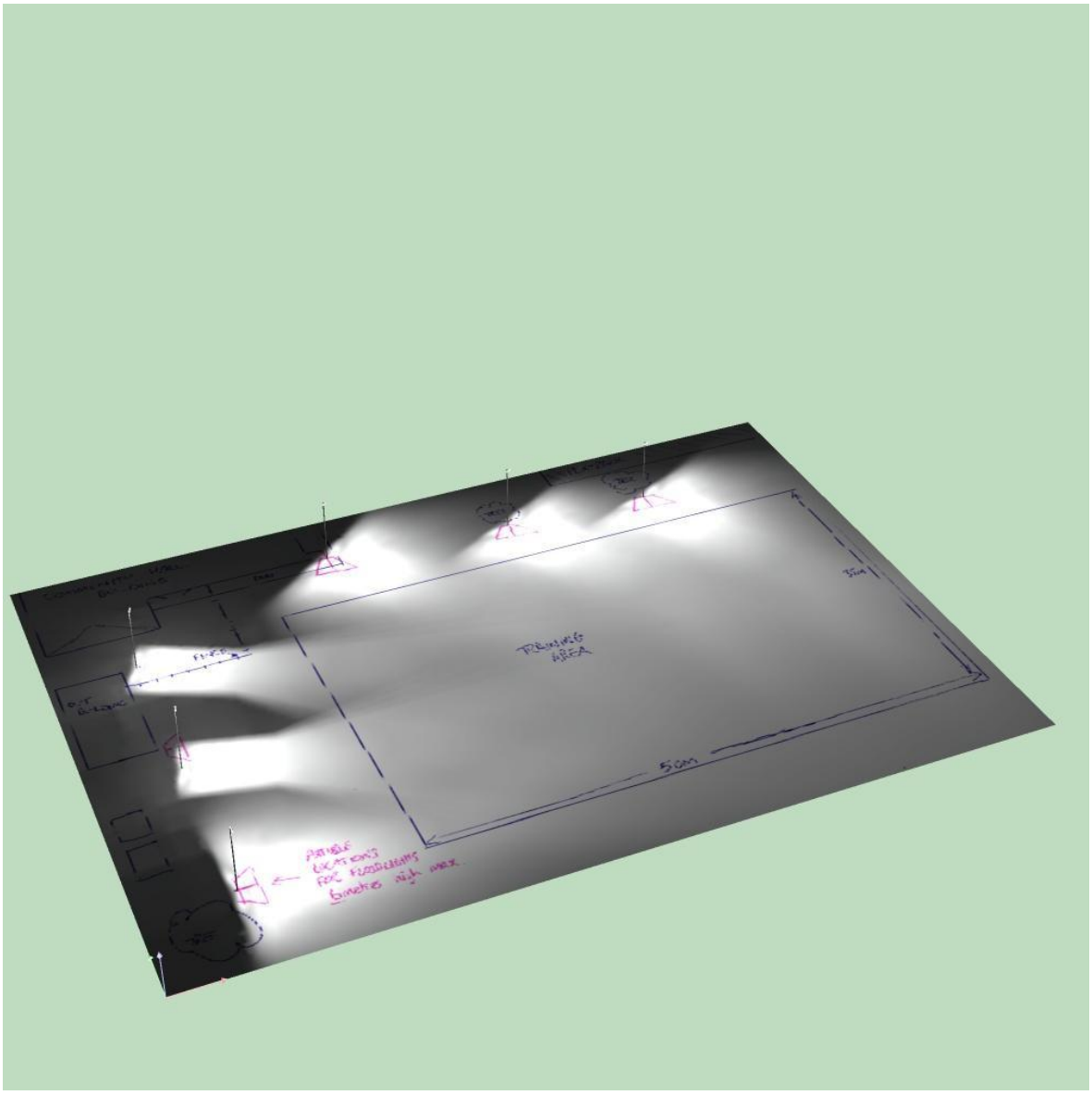
Scale 1 : 525

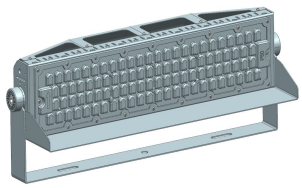
List of the Calculation Grids

No.	Designation	Position [m]			Size [m]		Rotation [°]		
		X	Y	Z	L	W	X	Y	Z
1	50x35m Calculation Grid	46.853	23.107	0.000	50.000	35.000	0.0	0.0	0.0

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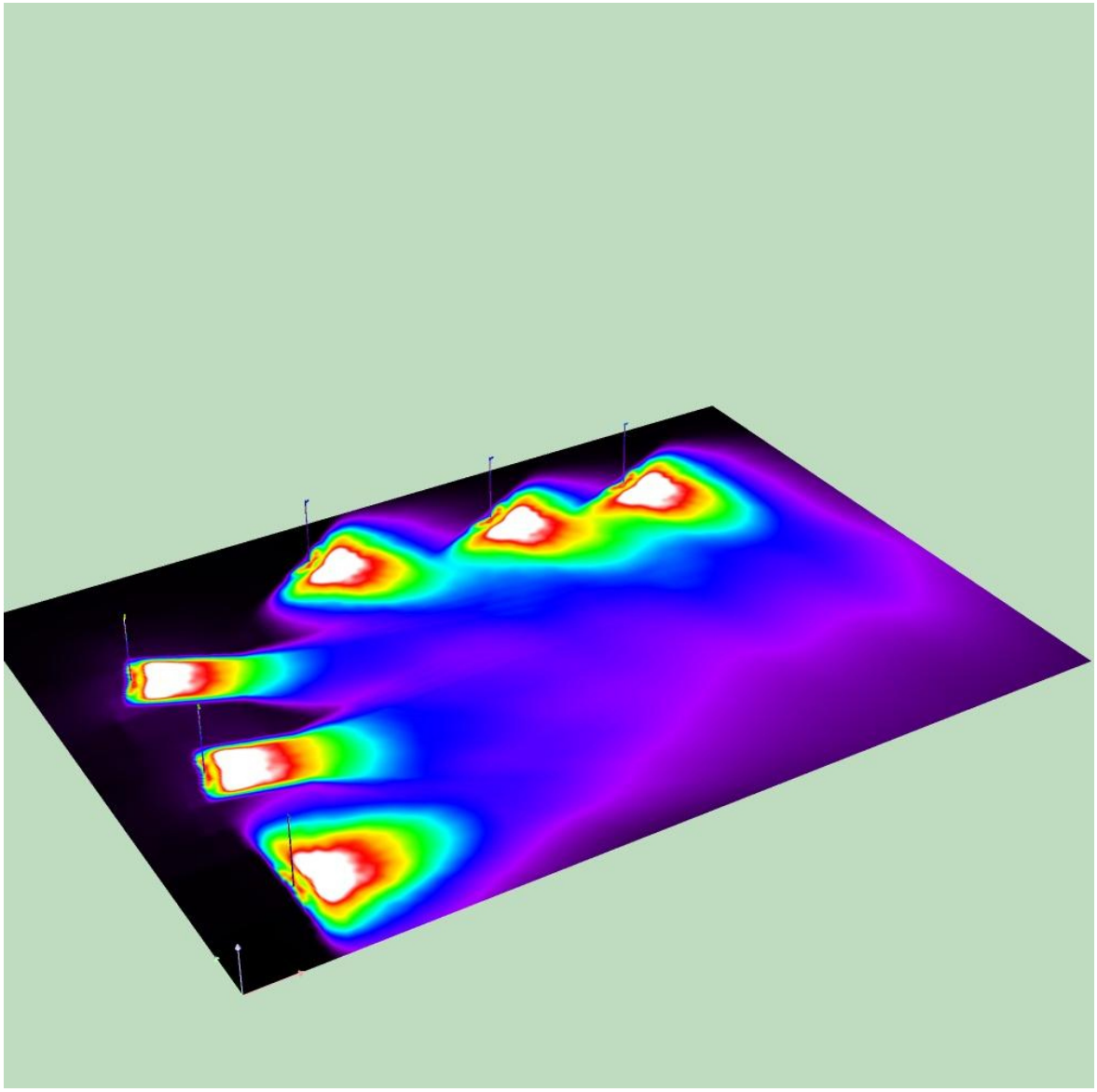
Exterior Scene 1 / 3D Rendering

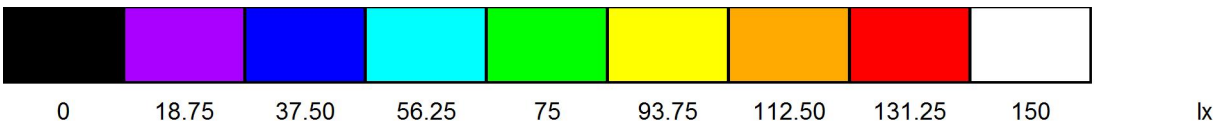




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Exterior Scene 1 / False Colour Rendering





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Exterior Scene 1 / Ground Element 1 / Surface 1 / Value Chart (E)

0.24	0.33	0.33	0.19	0.19	0.17	0.15	0.11	30	9.84	3.39	1.30	0.63	1.20	0.65	0.35	0.26	0.41
0.37	0.59	0.58	0.35	0.35	0.22	0.16	115	52	18	6.46	2.63	47	11	2.82	0.71	9.65	1.35
0.51	1.23	1.39	0.88	0.79	0.47	86	184	64	24	9.39	93	76	23	9.69	104	28	7.19
0.52	1.65	1.91	1.09	0.86	28	126	142	85	30	116	197	84	70	168	118	39	12
0.80	2.57	4.43	2.05	1.75	26	64	112	81	57	99	141	106	109	169	128	41	14
1.60	5.01	207	2.97	2.65	16	38	68	64	53	63	110	95	77	130	107	43	16
2.33	13	182	113	52	22	26	39	47	45	49	70	75	62	81	82	42	17
2.12	7.25	68	95	60	38	34	31	36	40	42	47	57	51	54	61	39	17
1.58	3.97	4.54	19	45	33	33	30	33	39	37	39	44	44	41	45	34	18
1.41	3.36	4.75	2.67	28	27	29	25	26	32	34	34	38	41	36	36	33	20
0.88	3.79	59	3.43	8.03	24	27	25	24	28	30	29	34	38	34	32	32	22
1.18	4.91	205	122	64	40	32	29	27	27	27	26	29	33	30	30	30	22
1.58	5.98	169	118	70	42	36	31	28	26	26	24	25	29	26	27	27	20
1.25	3.70	15	59	61	40	35	30	26	25	24	22	22	24	23	23	24	19
0.89	1.45	33	26	44	37	33	29	25	23	22	20	19	21	20	20	21	17
0.89	1.45	76	49	32	36	29	28	26	23	21	19	17	18	17	16	18	15
0.36	0.58	137	100	54	33	32	28	25	22	18	17	15	15	15	14	15	14
0.28	0.48	196	119	67	37	30	26	21	19	16	15	13	13	13	12	13	12
0.13	0.20	165	104	57	33	25	21	18	15	14	13	12	12	11	11	11	10
0.13	0.20	79	55	36	24	17	15	14	13	12	11	11	10	10	9.43	9.46	8.93
0.13	0.15	37	29	20	14	11	8.78	8.52	9.19	9.21	9.28	9.29	9.27	9.08	8.54	8.42	7.89

51.88 m

0.00

0.00

73.33 m

Values in Lux, Scale 1 : 525

Not all calculated values could be displayed.

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

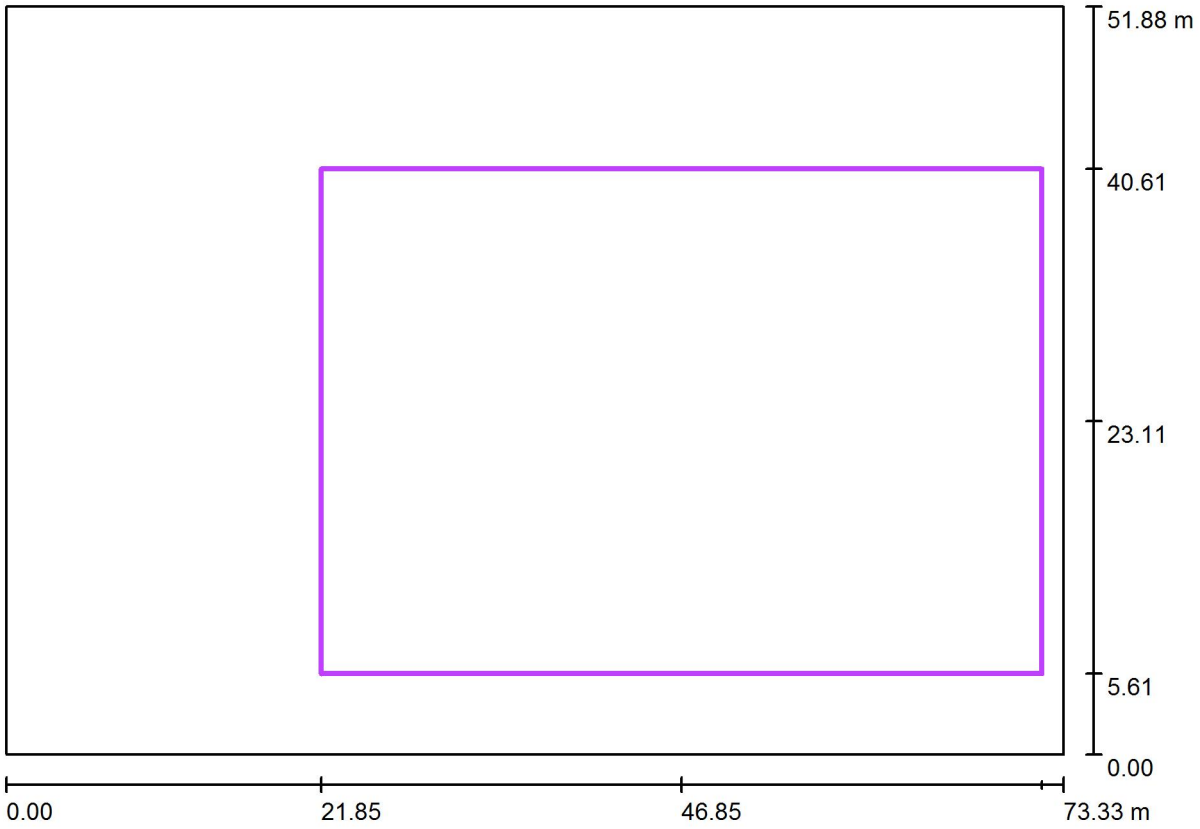


Grid: 128 x 128 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
34	0.11	229	0.003	0.000

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Exterior Scene 1 / 50x35m Calculation Grid / Summary



Scale 1 : 525

Position: (46.853 m, 23.107 m, 0.000 m)
Size: (50.000 m, 35.000 m)
Rotation: (0.0°, 0.0°, 0.0°)
Type: Normal, Grid: 17 x 11 Points

Results overview

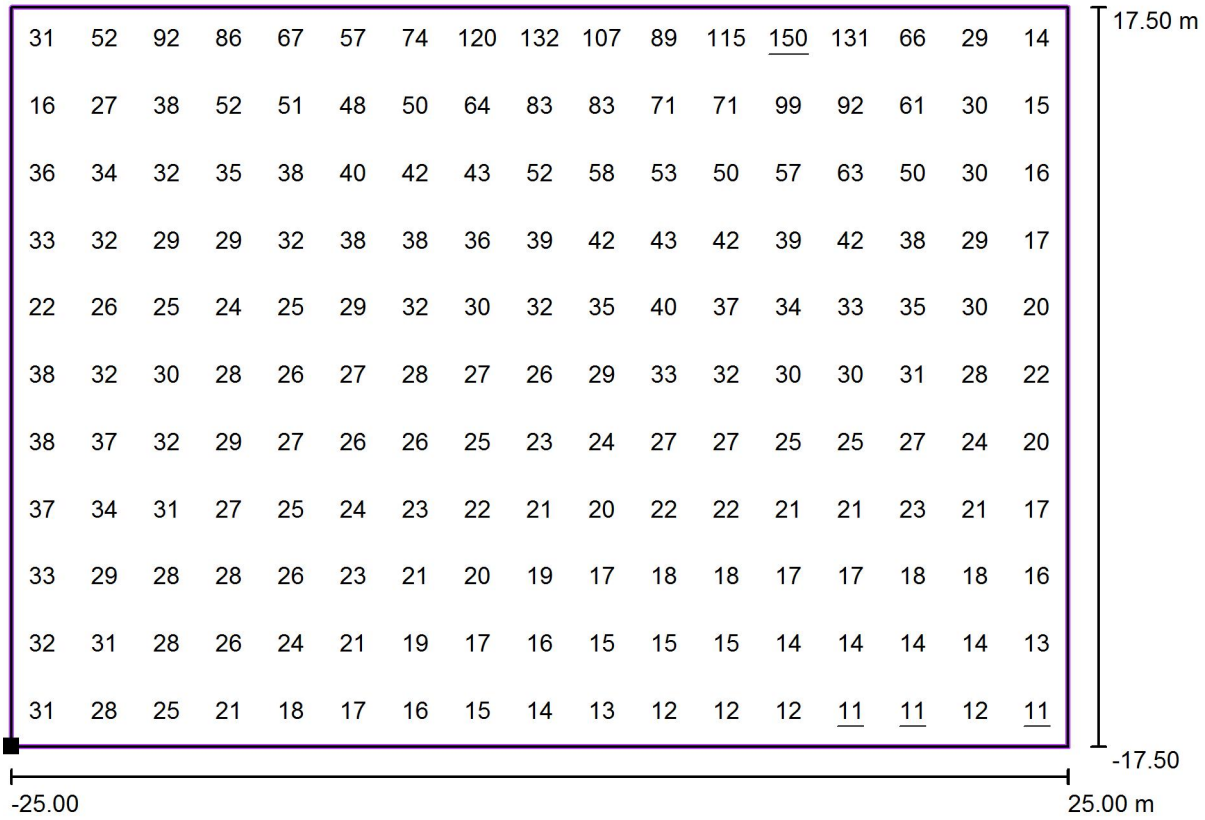
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\,m}/E_m$	H [m]	Camera
1	perpendicular	35	11	150	0.31	0.07	/	0.000	/

$E_{h\,m}/E_m$ = Relationship between middle horizontal and vertical illuminance, H = Measuring Height

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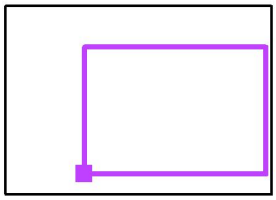
Exterior Scene 1 / 50x35m Calculation Grid / Value Chart (E, Perpendicular)

31	52	92	86	67	57	74	120	132	107	89	115	150	131	66	29	14
16	27	38	52	51	48	50	64	83	83	71	71	99	92	61	30	15
36	34	32	35	38	40	42	43	52	58	53	50	57	63	50	30	16
33	32	29	29	32	38	38	36	39	42	43	42	39	42	38	29	17
22	26	25	24	25	29	32	30	32	35	40	37	34	33	35	30	20
38	32	30	28	26	27	28	27	26	29	33	32	30	30	31	28	22
38	37	32	29	27	26	26	25	23	24	27	27	25	25	27	24	20
37	34	31	27	25	24	23	22	21	20	22	22	21	21	23	21	17
33	29	28	28	26	23	21	20	19	17	18	18	17	17	18	18	16
32	31	28	26	24	21	19	17	16	15	15	15	14	14	14	14	13
31	28	25	21	18	17	16	15	14	13	12	12	12	11	11	12	11



Values in Lux, Scale 1 : 358

Position of surface in external scene:
Marked point: (21.853 m, 5.607 m, 0.000 m)



Grid: 17 x 11 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
35	11	150	0.31	0.07