

ML2597 - Brooklands Sports Club - Hockey

MIDSTREAM LED PROPOSAL

REV05

5 x 16m Poles

1 x 15m Poles

Maintenance Factor: 0.9

- Full Pitch:

Total Floodlights:

20 x Modus S1500 NS (5000K)

04 x Modus S1500 WS (5000K)

Total Power Installed: 36 kW

Lighting Requirements: Eav=500 Lux; Emin/Eav=0.7

Calculated Values: Eav=500+ Lux; Emin/Eav>0.7

Calculated Values are guaranteed for a 10 x 6 grid points (FIH) as shown in the following calculation

- Half Pitch 1 & Half Pitch 2:

Total Floodlights: 10 x Modus S1500 NS (5000K) on each Half

02 x Modus S1500 WS (5000K) on each Half

Total Power Installed: 18 kW on each Half

Lighting Requirements: Eav=350 Lux; Emin/Eav=0.7

Calculated Values: Eav=350+ Lux; Emin/Eav>0.7

Calculated Values are guaranteed for a 5 x 6 grid points as shown in the following calculation

- Dimming Full Pitch to Eav=350 lux

Date: 18.06.2024

Operator: MIDSTREAM LIGHTING LIMITED

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Half Pitch 1

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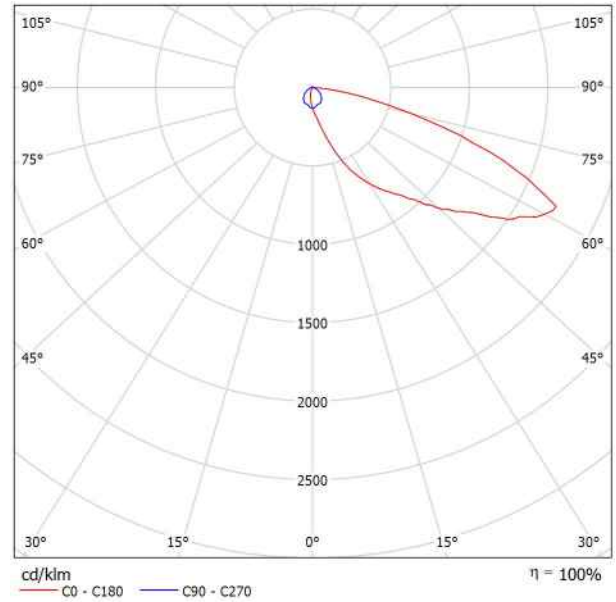
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MIDSTREAM - Modus S1500 WS (5000K) / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 31 67 95 100 100

Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

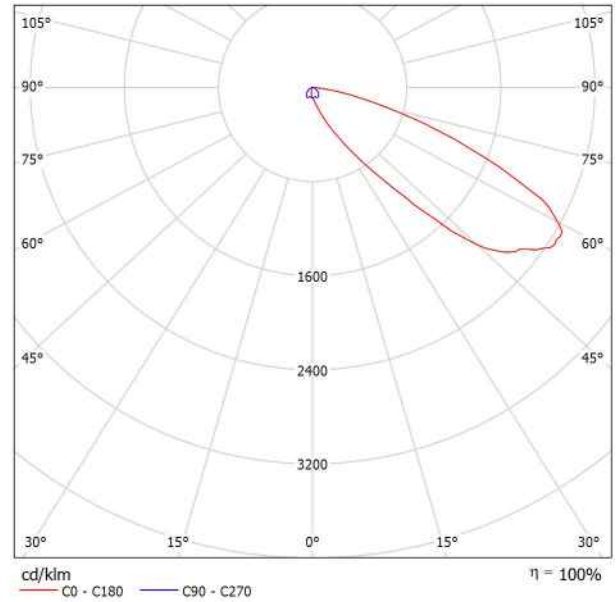
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Luminous emittance 1:

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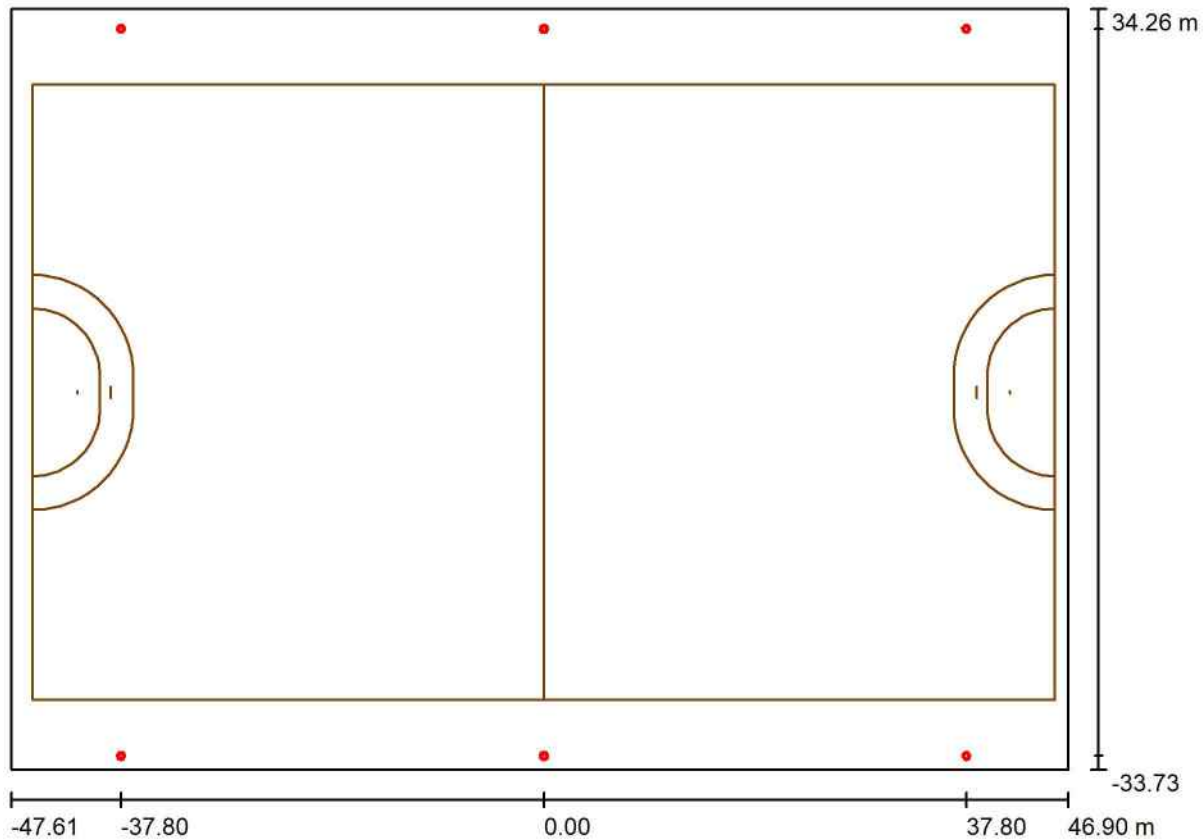
Luminaire classification according to CIE: 100
CIE flux code: 24 67 95 100 100

Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

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Full Pitch / Planning data



Light loss factor: 0.90, ULR (Upward Light Ratio): 0.5%

Scale 1:676

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	20	MIDSTREAM - Modus S1500 NS (5000K) (1.000)	172248	172245	1500.0
2	4	MIDSTREAM - Modus S1500 WS (5000K) (1.000)	172247	172246	1500.0
Total:			4133946	Total: 4133884	36000.0

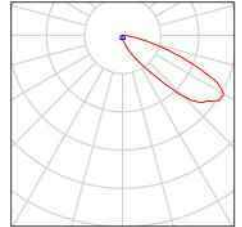
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Full Pitch / Luminaire parts list

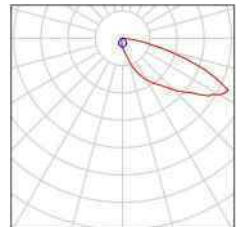
20 Pieces MIDSTREAM - Modus S1500 NS (5000K)
Article No.:
Luminous flux (Luminaire): 172248 lm
Luminous flux (Lamps): 172245 lm
Luminaire Wattage: 1500.0 W
Luminaire classification according to CIE: 100
CIE flux code: 24 67 95 100 100
Fitting: 1 x LED (Correction Factor 1.000).

See our luminaire catalog
for an image of the
luminaire.



4 Pieces MIDSTREAM - Modus S1500 WS (5000K)
Article No.:
Luminous flux (Luminaire): 172247 lm
Luminous flux (Lamps): 172246 lm
Luminaire Wattage: 1500.0 W
Luminaire classification according to CIE: 100
CIE flux code: 31 67 95 100 100
Fitting: 1 x LED (Correction Factor 1.000).

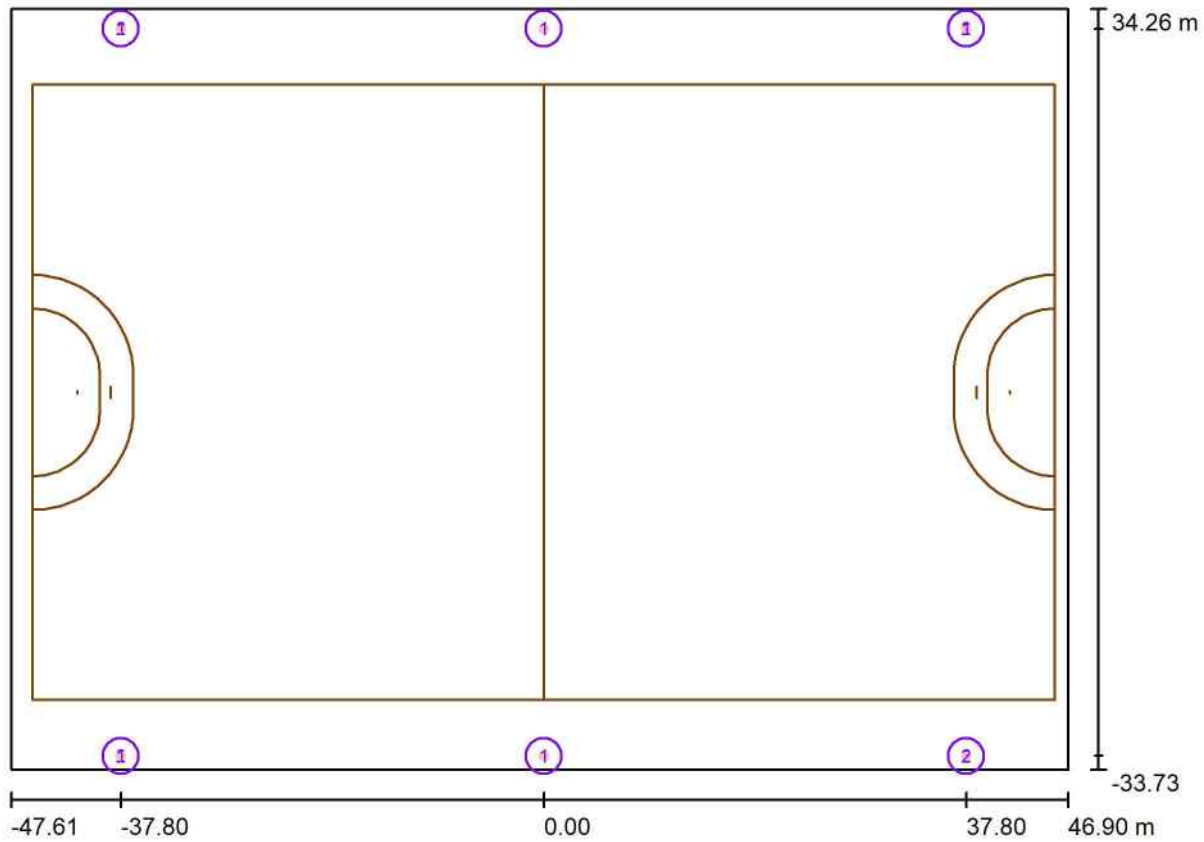
See our luminaire catalog
for an image of the
luminaire.



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Full Pitch / Luminaires (layout plan)



Scale 1 : 676

Luminaire Parts List

No.	Pieces	Designation
1	20	MIDSTREAM - Modus S1500 NS (5000K)
2	4	MIDSTREAM - Modus S1500 WS (5000K)

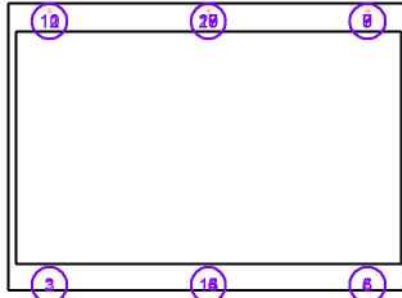
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Full Pitch / Luminaires (coordinates list)

MIDSTREAM - Modus S1500 NS (5000K)

172248 lm, 1500.0 W, 1 x 1 x LED (Correction Factor 1.000).



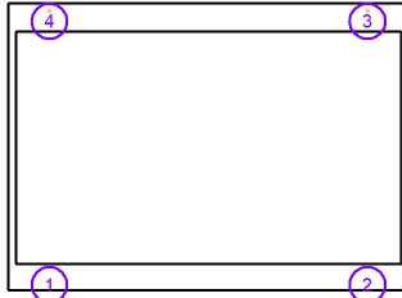
No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	-37.800	-32.500	15.000	0.0	-5.6	93.3
2	-37.800	-32.500	15.000	0.0	-7.8	63.8
3	-37.800	-32.500	15.000	0.0	-6.5	23.5
4	37.800	-32.500	16.000	0.0	-4.2	87.2
5	37.800	-32.500	16.000	0.0	-6.5	116.8
6	37.800	-32.500	16.000	0.0	-5.1	156.5
7	37.800	32.500	16.000	0.0	-4.2	-87.2
8	37.800	32.500	16.000	0.0	-6.5	-116.8
9	37.800	32.500	16.000	0.0	-5.1	-156.5
10	-37.800	32.500	16.000	0.0	-4.2	-92.8
11	-37.800	32.500	16.000	0.0	-6.5	-63.2
12	-37.800	32.500	16.000	0.0	-5.1	-23.5
13	0.000	-32.500	16.000	0.0	-5.6	125.0
14	0.000	-32.500	16.000	0.0	-5.4	100.4
15	0.000	-32.500	16.000	0.0	-5.6	55.0
16	0.000	-32.500	16.000	0.0	-5.4	79.6
17	0.000	32.500	16.000	0.0	-5.6	-125.0
18	0.000	32.500	16.000	0.0	-5.4	-100.4
19	0.000	32.500	16.000	0.0	-5.6	-55.0
20	0.000	32.500	16.000	0.0	-5.4	-79.6

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Full Pitch / Luminaires (coordinates list)

MIDSTREAM - Modus S1500 WS (5000K)
 172247 lm, 1500.0 W, 1 x 1 x LED (Correction Factor 1.000).

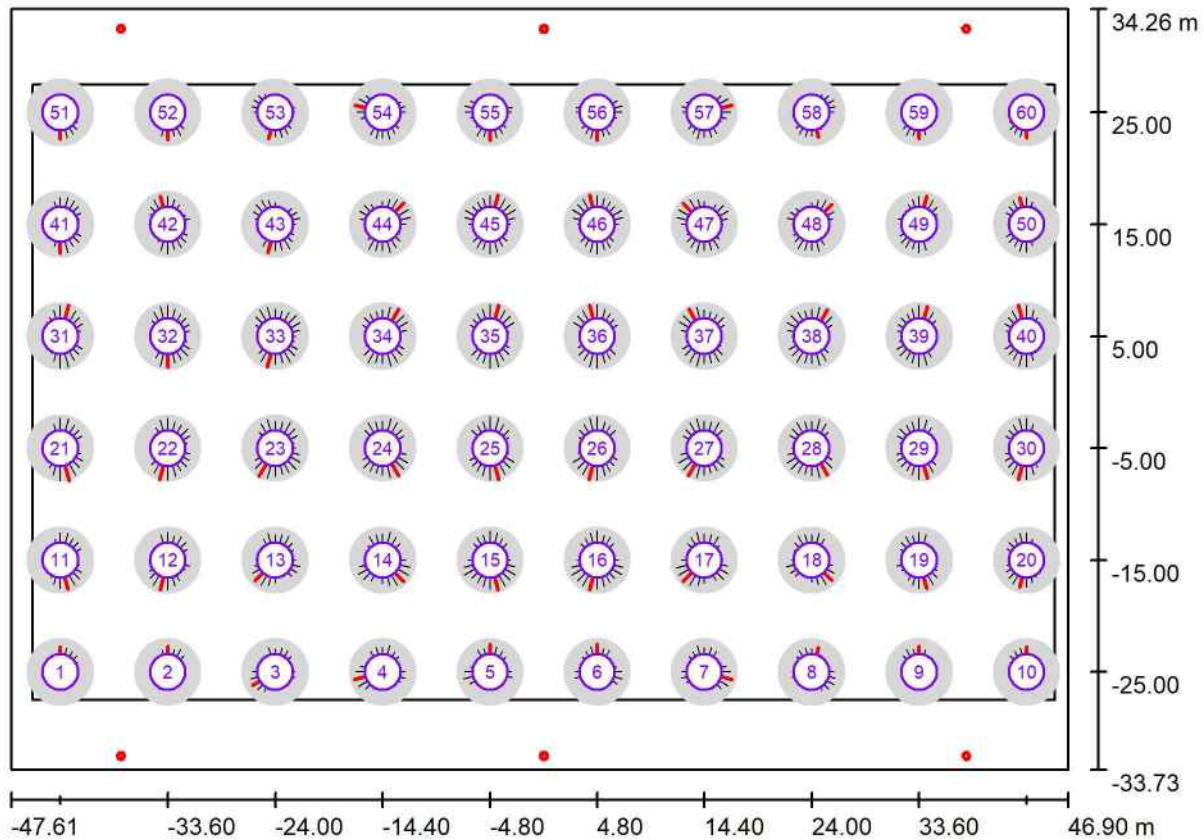


No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	-37.800	-32.500	15.000	0.0	0.1	98.3
2	37.800	-32.500	16.000	0.0	1.5	81.7
3	37.800	32.500	16.000	0.0	1.5	-81.7
4	-37.800	32.500	16.000	0.0	1.5	-98.3

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Full Pitch / GR Observer (Results Overview)



Scale 1 : 676

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]			Slope angle	Max
		X	Y	Z	Start	End	Increment		
1	GR Observer 1	-43.200	-25.000	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
2	GR Observer 2	-33.600	-25.000	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
3	GR Observer 3	-24.000	-25.000	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
4	GR Observer 4	-14.400	-25.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾

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Full Pitch / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Start	Viewing sector [°]			Max
		X	Y	Z		End	Increment	Slope angle	
5	GR Observer 5	-4.800	-25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
6	GR Observer 6	4.800	-25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
7	GR Observer 7	14.400	-25.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
8	GR Observer 8	24.000	-25.000	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
9	GR Observer 9	33.600	-25.000	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
10	GR Observer 10	43.200	-25.000	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
11	GR Observer 11	-43.200	-15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
12	GR Observer 12	-33.600	-15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
13	GR Observer 13	-24.000	-15.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
14	GR Observer 14	-14.400	-15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
15	GR Observer 15	-4.800	-15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
16	GR Observer 16	4.800	-15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
17	GR Observer 17	14.400	-15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
18	GR Observer 18	24.000	-15.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
19	GR Observer 19	33.600	-15.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
20	GR Observer 20	43.200	-15.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
21	GR Observer 21	-43.200	-5.000	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
22	GR Observer 22	-33.600	-5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
23	GR Observer 23	-24.000	-5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
24	GR Observer 24	-14.400	-5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
25	GR Observer 25	-4.800	-5.000	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
26	GR Observer 26	4.800	-5.000	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
27	GR Observer 27	14.400	-5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
28	GR Observer 28	24.000	-5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
29	GR Observer 29	33.600	-5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
30	GR Observer 30	43.200	-5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
31	GR Observer 31	-43.200	5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
32	GR Observer 32	-33.600	5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
33	GR Observer 33	-24.000	5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
34	GR Observer 34	-14.400	5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
35	GR Observer 35	-4.800	5.000	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
36	GR Observer 36	4.800	5.000	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
37	GR Observer 37	14.400	5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
38	GR Observer 38	24.000	5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
39	GR Observer 39	33.600	5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
40	GR Observer 40	43.200	5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾

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Full Pitch / GR Observer (Results Overview)

GR Observerlist

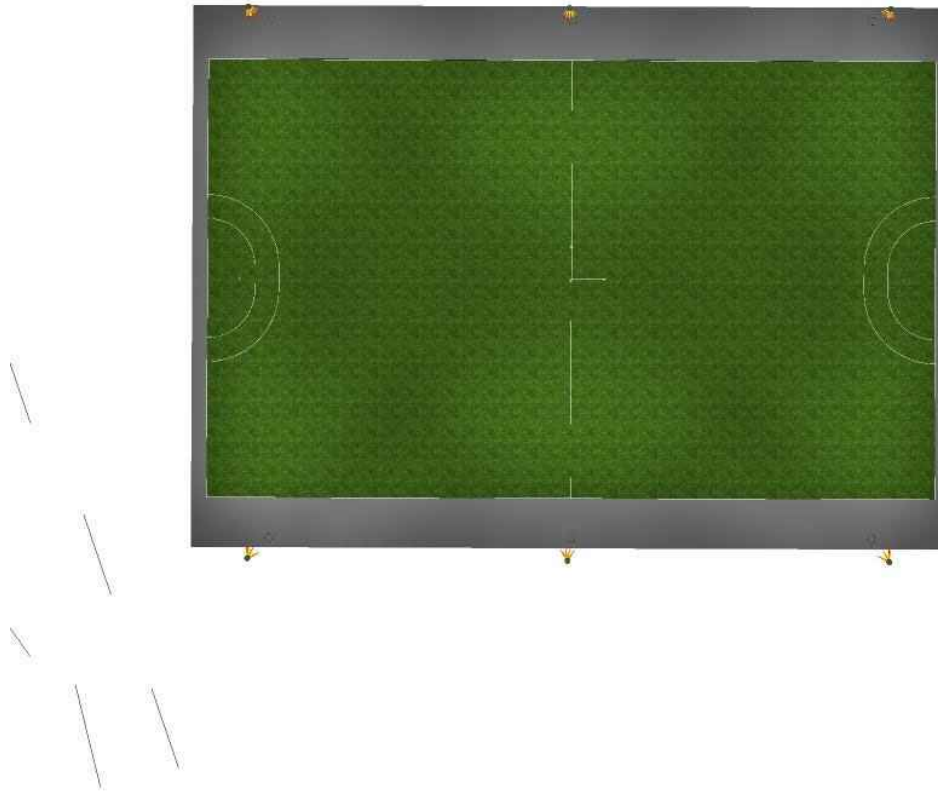
No.	Designation	Position [m]			Viewing sector [°]			Slope angle	Max
		X	Y	Z	Start	End	Increment		
41	GR Observer 41	-43.200	15.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
42	GR Observer 42	-33.600	15.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
43	GR Observer 43	-24.000	15.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
44	GR Observer 44	-14.400	15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
45	GR Observer 45	-4.800	15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
46	GR Observer 46	4.800	15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
47	GR Observer 47	14.400	15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
48	GR Observer 48	24.000	15.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
49	GR Observer 49	33.600	15.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
50	GR Observer 50	43.200	15.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
51	GR Observer 51	-43.200	25.000	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
52	GR Observer 52	-33.600	25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
53	GR Observer 53	-24.000	25.000	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
54	GR Observer 54	-14.400	25.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
55	GR Observer 55	-4.800	25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
56	GR Observer 56	4.800	25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
57	GR Observer 57	14.400	25.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
58	GR Observer 58	24.000	25.000	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
59	GR Observer 59	33.600	25.000	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
60	GR Observer 60	43.200	25.000	1.500	0.0	360.0	15.0	-2.0	34 ²⁾

2) The calculated equivalent veil luminance of the environment is based on the assumption of a complete diffuse reflection behavior of the environment (acc. EN 12464-2).

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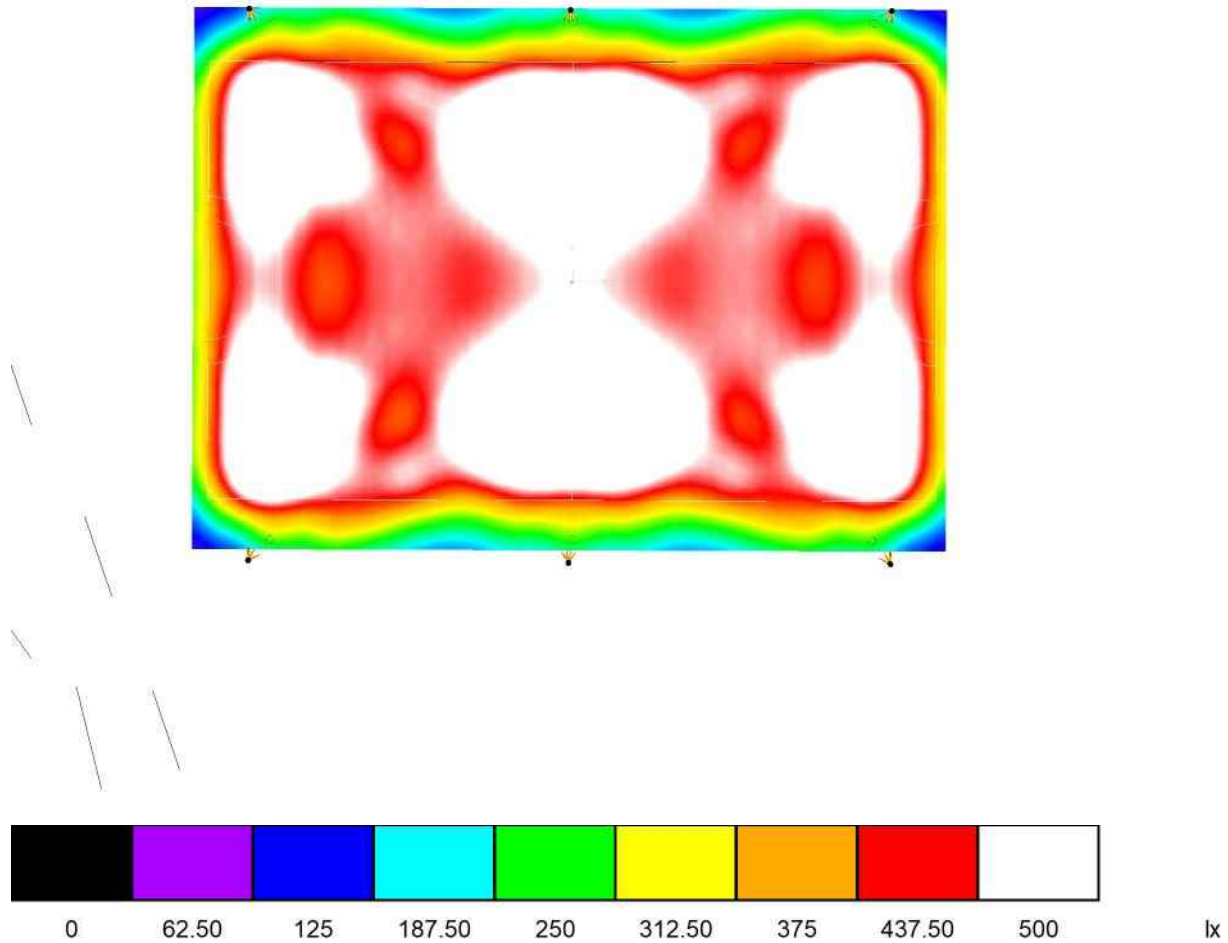
Full Pitch / 3D Rendering



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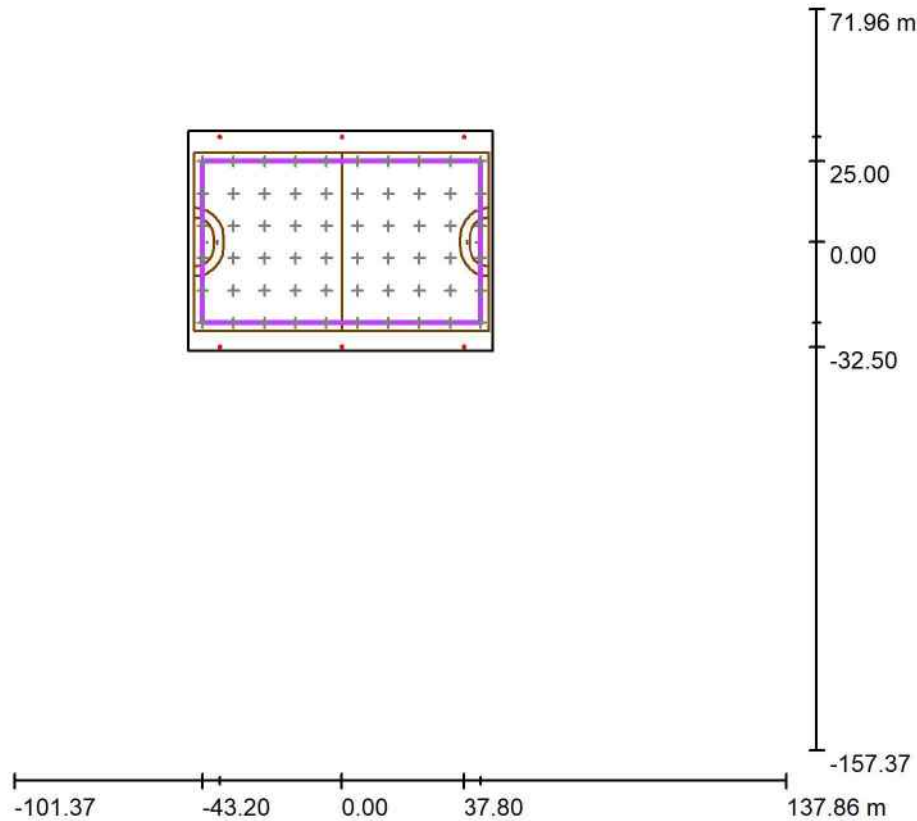
Full Pitch / False Color Rendering



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Full Pitch / Hockey Pitch Calculation Grid / Summary



Scale 1 : 2343

Position: (0.000 m, 0.000 m, 0.000 m)
 Size: (86.400 m, 50.000 m)
 Rotation: (0.0°, 0.0°, 0.0°)
 Type: Normal, Grid: 10 x 6 Points
 Belongs to the following sport arena: Hockey Pitch

Results overview

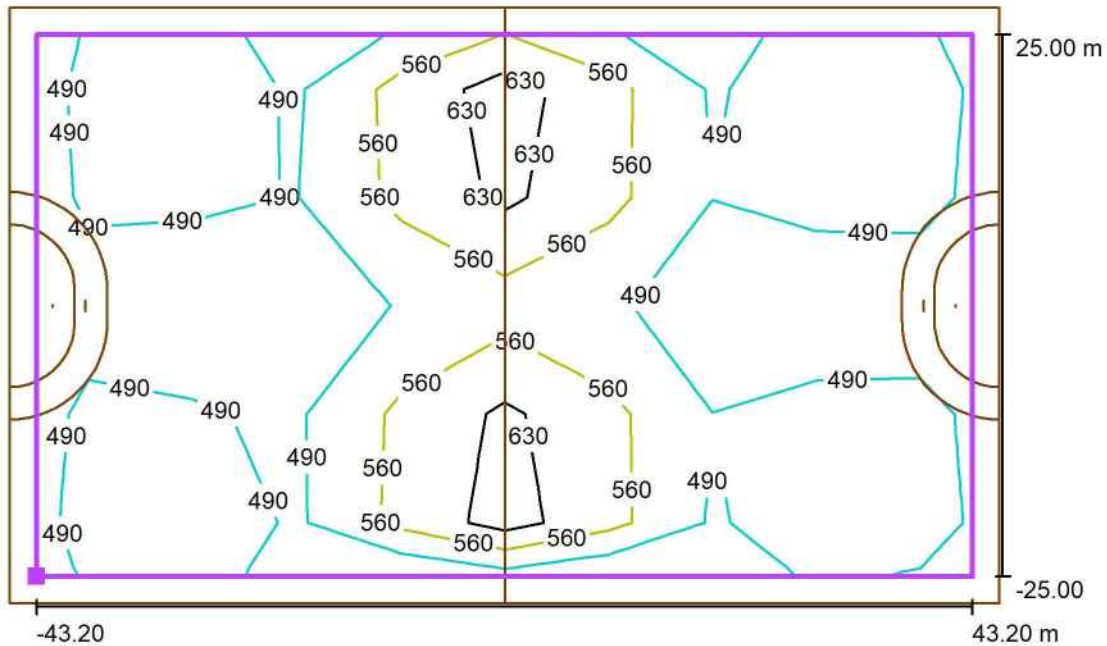
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	518	444	759	0.86	0.58	/	0.000	/

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

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Full Pitch / Hockey Pitch Calculation Grid / Isolines (E, Horizontal)



Values in Lux, Scale 1 : 698

Position of surface in external scene:
 Marked point: (-43.200 m, -25.000 m,
 0.000 m)



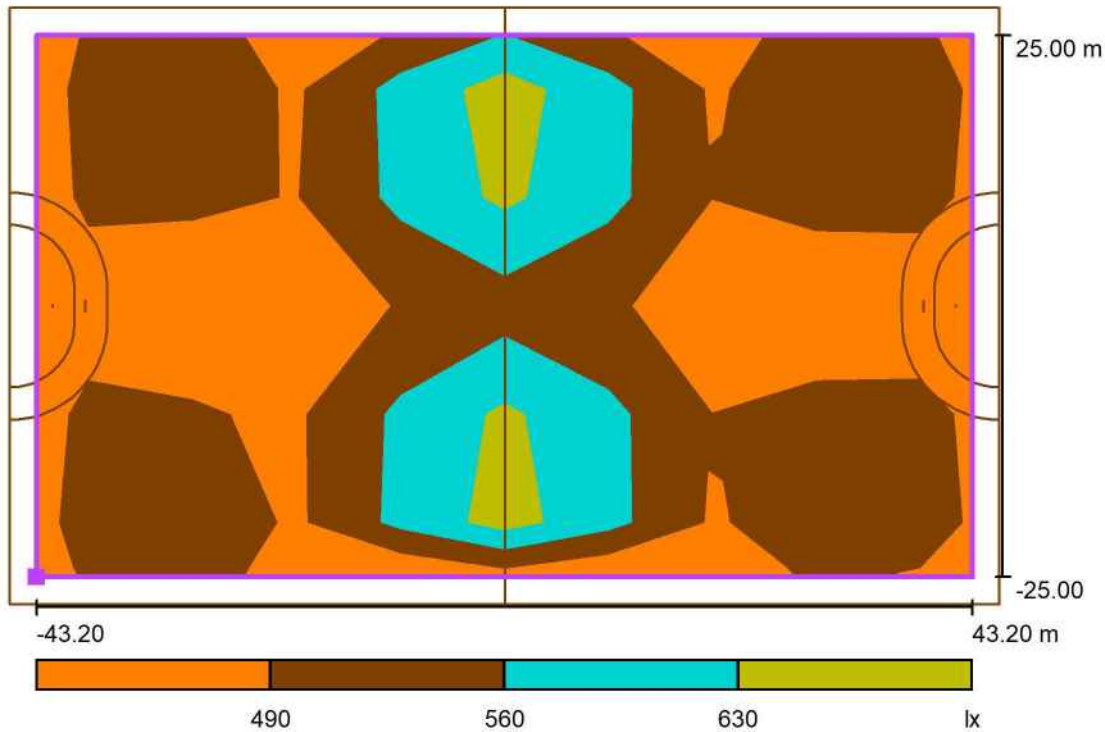
Grid: 10 x 6 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
518	444	759	0.86	0.58

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Full Pitch / Hockey Pitch Calculation Grid / Greyscale (E, Horizontal)



Scale 1 : 698

Position of surface in external scene:
 Marked point: (-43.200 m, -25.000 m,
 0.000 m)



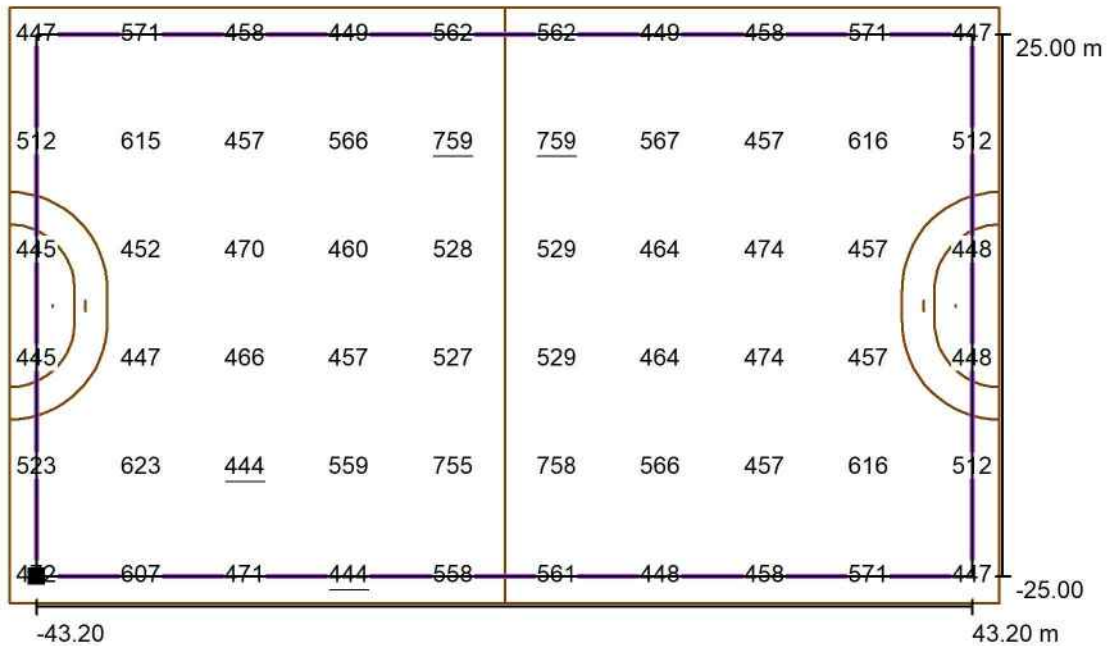
Grid: 10 x 6 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
518	444	759	0.86	0.58

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Full Pitch / Hockey Pitch Calculation Grid / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 698

Position of surface in external scene:
 Marked point: (-43.200 m, -25.000 m,
 0.000 m)



Grid: 10 x 6 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
518	444	759	0.86	0.58

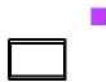
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Full Pitch / Spill Out - House 1 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (105.514 m, 71.961 m,
 0.000 m)



1.000 4.84

0.000 5.02

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
4.93	4.84	5.02	0.98	0.96

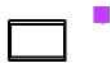
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Full Pitch / Spill Out - House 2 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (109.320 m, 43.252 m,
 0.000 m)



1.000 7.00

0.000 7.27

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
7.13	7.00	7.27	0.98	0.96

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Full Pitch / Spill Out - House 3 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (111.607 m, 27.470 m,
 0.000 m)



1.000 7.83

0.000 8.11

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
7.97

E_{min} [lx]
7.83

E_{max} [lx]
8.11

u0
0.98

E_{min} / E_{max}
0.96

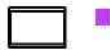
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Full Pitch / Spill Out - House 4 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (112.554 m, 17.411 m,
 0.000 m)



1.000 8.02

0.000 8.31

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
8.16	8.02	8.31	0.98	0.97

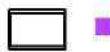
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Full Pitch / Spill Out - House 5 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (112.921 m, 4.824 m,
 0.000 m)



1.000 7.95

0.000 8.27

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
8.11

E_{min} [lx]
7.95

E_{max} [lx]
8.27

$u0$
0.98

E_{min} / E_{max}
0.96

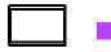
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Full Pitch / Spill Out - House 6 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (114.805 m, -9.359 m,
 0.000 m)



1.000 7.03

0.000 7.32

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
7.17

E_{min} [lx]
7.03

E_{max} [lx]
7.32

u0
0.98

E_{min} / E_{max}
0.96

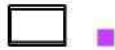
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Full Pitch / Spill Out - House 7 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (115.660 m, -20.479 m,
 0.000 m)



1.000 6.11

0.000 6.36

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
6.24

E_{min} [lx]
6.11

E_{max} [lx]
6.36

u0
0.98

E_{min} / E_{max}
0.96

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Full Pitch / Spill Out - House 8 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (116.882 m, -32.699 m,
 0.000 m)



1.000 4.93

0.000 5.15

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
5.04

E_{min} [lx]
4.93

E_{max} [lx]
5.15

u0
0.98

E_{min} / E_{max}
0.96

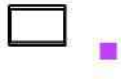
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Full Pitch / Spill Out - House 9 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (120.096 m, -43.937 m,
 0.000 m)



1.000 3.86

0.000 4.02

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
3.94	3.86	4.02	0.98	0.96

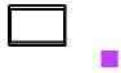
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Full Pitch / Spill Out - House 10 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (122.381 m, -56.528 m,
 0.000 m)



1.000 3.14

0.000 3.25

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
3.19	3.14	3.25	0.98	0.96

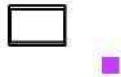
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Full Pitch / Spill Out - House 11 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (124.128 m, -67.767 m,
 0.000 m)



1.000 2.60

0.000 2.70

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
2.65	2.60	2.70	0.98	0.96

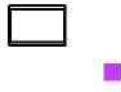
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Full Pitch / Spill Out - House 12 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (127.356 m, -79.016 m,
 0.000 m)



1.000 2.18

0.000 2.27

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
2.23	2.18	2.27	0.98	0.96

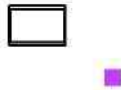
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Full Pitch / Spill Out - House 13 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (128.212 m, -88.548 m,
 0.000 m)



1.000 1.92
0.000 2.00
m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.96	1.92	2.00	0.98	0.96

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Full Pitch / Spill Out - House 14 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (129.958 m, -99.421 m,
 0.000 m)



1.000 1.64

0.000 1.71

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.67	1.64	1.71	0.98	0.96

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Full Pitch / Spill Out - House 15 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (131.965 m, -
 109.204 m, 0.000 m)



1.000 1.46
0.000 1.51
 m **3.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.49	1.46	1.51	0.98	0.96

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Full Pitch / Spill Out - House 16 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (133.857 m, -
 122.247 m, 0.000 m)



1.000 1.31

0.000 1.36

m 9.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.34	1.31	1.36	0.98	0.96

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Full Pitch / Spill Out - House 17 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (137.862 m, -
 148.129 m, 0.000 m)



1.000 1.17

0.000 1.21

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.19	1.17	1.21	0.98	0.96

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Full Pitch / Spill Out - House 18 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (127.153 m, -
 157.373 m, 1.000 m)



1.000 1.67

0.000 1.60

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.64	1.60	1.67	0.98	0.96

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Full Pitch / Spill Out - House 19 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (118.099 m, -
 156.395 m, 1.000 m)



1.000 1.90

0.000 1.82

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.86	1.82	1.90	0.98	0.96

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Full Pitch / Spill Out - House 20 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (107.345 m, -
 155.662 m, 1.000 m)



1.000 2.23

0.000 2.14

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
2.18

E_{min} [lx]
2.14

E_{max} [lx]
2.23

u0
0.98

E_{min} / E_{max}
0.96

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Full Pitch / Spill Out - House 21 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (96.469 m, -155.051 m,
 1.000 m)



1.000 2.61

0.000 2.48

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
2.54

E_{min} [lx]
2.48

E_{max} [lx]
2.61

u0
0.98

E_{min} / E_{max}
0.95

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Full Pitch / Spill Out - House 22 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (84.104 m, -154.073 m,
 1.000 m)



1.000 3.07
0.000 2.92
 m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
3.00	2.92	3.07	0.98	0.95

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Full Pitch / Spill Out - House 23 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (73.995 m, -152.851 m,
 1.000 m)



1.000 3.62

0.000 3.45

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
3.54	3.45	3.62	0.98	0.95

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Full Pitch / Spill Out - House 24 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (64.097 m, -152.118 m,
 1.000 m)



1.000 4.11

0.000 3.90

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
4.00	3.90	4.11	0.97	0.95

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Full Pitch / Spill Out - House 25 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (50.621 m, -151.141 m,
 1.000 m)



1.000 4.75

0.000 4.50

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
4.62	4.50	4.75	0.97	0.95

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Full Pitch / Spill Out - House 26 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (38.401 m, -149.919 m,
 1.000 m)



1.000 5.32

0.000 5.04

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
5.18	5.04	5.32	0.97	0.95

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Full Pitch / Spill Out - House 27 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (24.714 m, -148.819 m,
 1.000 m)



1.000 5.76

0.000 5.47

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
5.61	5.47	5.76	0.97	0.95

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Full Pitch / Spill Out - House 28 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (3.996 m, -147.274 m,
 1.000 m)



1.000 5.93
0.000 5.67
 m **8.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
5.80	5.67	5.93	0.98	0.96

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Full Pitch / Spill Out - House 29 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-9.729 m, -146.346 m,
 1.000 m)



1.000 6.08

0.000 5.82

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
5.95	5.82	6.08	0.98	0.96

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Full Pitch / Spill Out - House 30 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-19.295 m, -143.006 m,
 1.000 m)



1.000 6.14

0.000 5.87

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
6.00

E_{min} [lx]
5.87

E_{max} [lx]
6.14

u0
0.98

E_{min} / E_{max}
0.95

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Full Pitch / Spill Out - House 31 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-25.649 m, -138.418 m,
 1.000 m)



1.000 6.01

0.000 5.72

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
5.86	5.72	6.01	0.98	0.95

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Full Pitch / Spill Out - House 32 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-32.537 m, -132.752 m,
 1.000 m)



1.000 6.74

0.000 6.41

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
6.57

E_{min} [lx]
6.41

E_{max} [lx]
6.74

u0
0.97

E_{min} / E_{max}
0.95

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Full Pitch / Spill Out - House 33 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-36.002 m, -118.095 m,
 1.000 m)



1.000 2.00
0.000 1.92
 m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.96	1.92	2.00	0.98	0.96

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Full Pitch / Spill Out - House 34 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-38.113 m, -98.543 m,
 1.000 m)



1.000 3.25

0.000 3.11

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.18

E_{min} [lx]
3.11

E_{max} [lx]
3.25

$u0$
0.98

E_{min} / E_{max}
0.96

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Full Pitch / Spill Out - House 35 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-43.779 m, -72.992 m,
 1.000 m)



1.000 6.47

0.000 6.19

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
6.33

E_{min} [lx]
6.19

E_{max} [lx]
6.47

u_0
0.98

E_{min} / E_{max}
0.96

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Full Pitch / Spill Out - House 36 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-51.960 m, -51.388 m,
 1.000 m)



1.000 21

0.000 21

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
21

E_{min} [lx]
21

E_{max} [lx]
21

$u0$
0.98

E_{min} / E_{max}
0.95

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Full Pitch / Spill Out - House 37 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-61.264 m, -29.524 m,
 1.000 m)



1.000 56
0.000 55
 m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
55	55	56	0.99	0.98

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Full Pitch / Spill Out - House 38 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-71.091 m, -9.441 m,
 1.000 m)



1.000 50

0.000 48

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
49	48	50	0.98	0.96

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Full Pitch / Spill Out - House 39 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-78.714 m, 3.522 m,
 1.000 m)



1.000 34

0.000 32

m 6.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
33

E_{min} [lx]
32

E_{max} [lx]
34

u_0
0.98

E_{min} / E_{max}
0.95

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Full Pitch / Spill Out - House 40 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-88.370 m, 17.246 m,
 1.000 m)



1.000 18
0.000 18
 m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
18	18	18	0.99	0.97

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Full Pitch / Spill Out - House 41 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-93.814 m, 31.466 m,
 1.000 m)



1.000 11
0.000 11
 m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
11	11	11	0.98	0.97

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Full Pitch / Spill Out - House 42 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-98.702 m, 43.908 m,
 1.000 m)



1.000 7.02

0.000 6.76

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
6.89	6.76	7.02	0.98	0.96

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Full Pitch / Spill Out - House 43 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-101.368 m, 54.906 m,
 1.000 m)



1.000 4.92

0.000 4.74

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

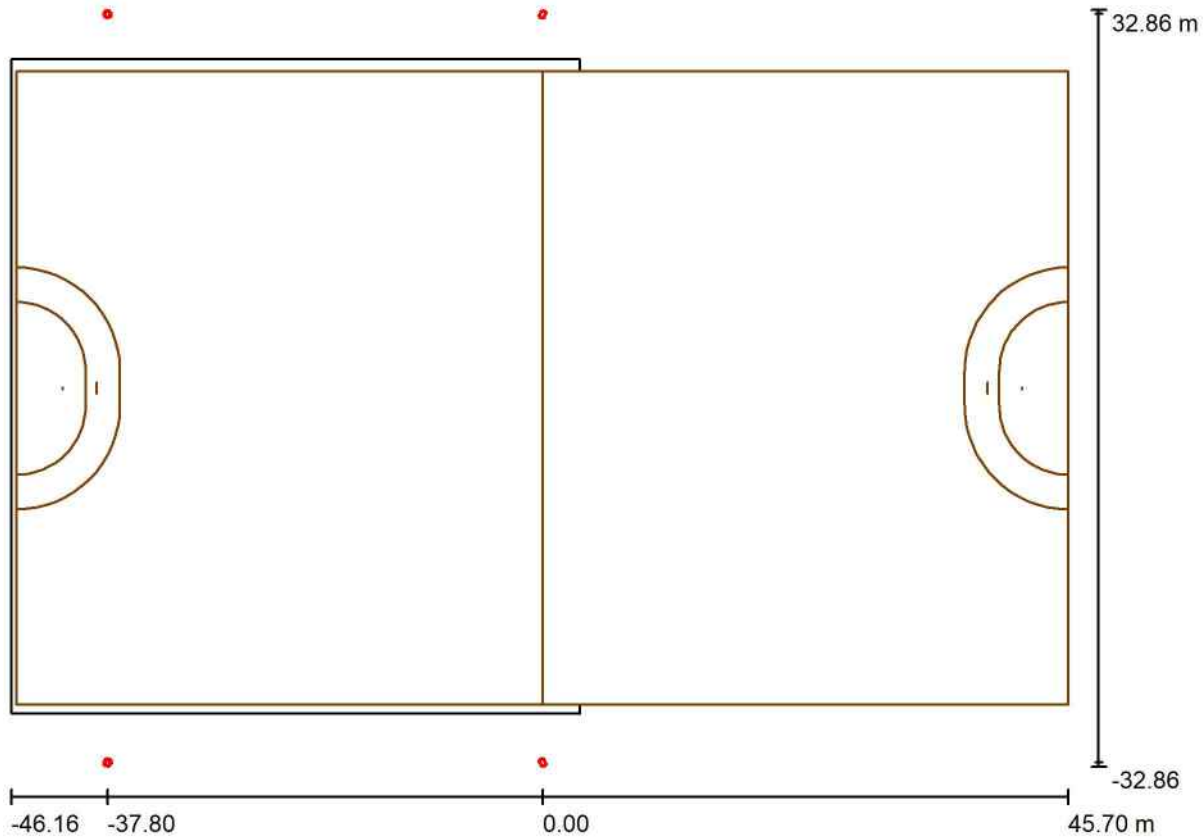
Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
4.83	4.74	4.92	0.98	0.96

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Half Pitch 1 / Planning data



Light loss factor: 0.90, ULR (Upward Light Ratio): 0.5%

Scale 1:657

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	10	MIDSTREAM - Modus S1500 NS (5000K) (1.000)	172248	172245	1500.0
2	2	MIDSTREAM - Modus S1500 WS (5000K) (1.000)	172247	172246	1500.0
Total:			2066973	Total: 2066942	18000.0

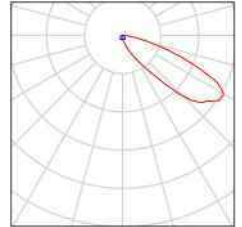
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e-Mail info@midstreamlighting.com

Half Pitch 1 / Luminaire parts list

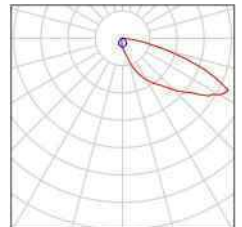
10 Pieces MIDSTREAM - Modus S1500 NS (5000K)
Article No.:
Luminous flux (Luminaire): 172248 lm
Luminous flux (Lamps): 172245 lm
Luminaire Wattage: 1500.0 W
Luminaire classification according to CIE: 100
CIE flux code: 24 67 95 100 100
Fitting: 1 x LED (Correction Factor 1.000).

See our luminaire catalog
for an image of the
luminaire.



2 Pieces MIDSTREAM - Modus S1500 WS (5000K)
Article No.:
Luminous flux (Luminaire): 172247 lm
Luminous flux (Lamps): 172246 lm
Luminaire Wattage: 1500.0 W
Luminaire classification according to CIE: 100
CIE flux code: 31 67 95 100 100
Fitting: 1 x LED (Correction Factor 1.000).

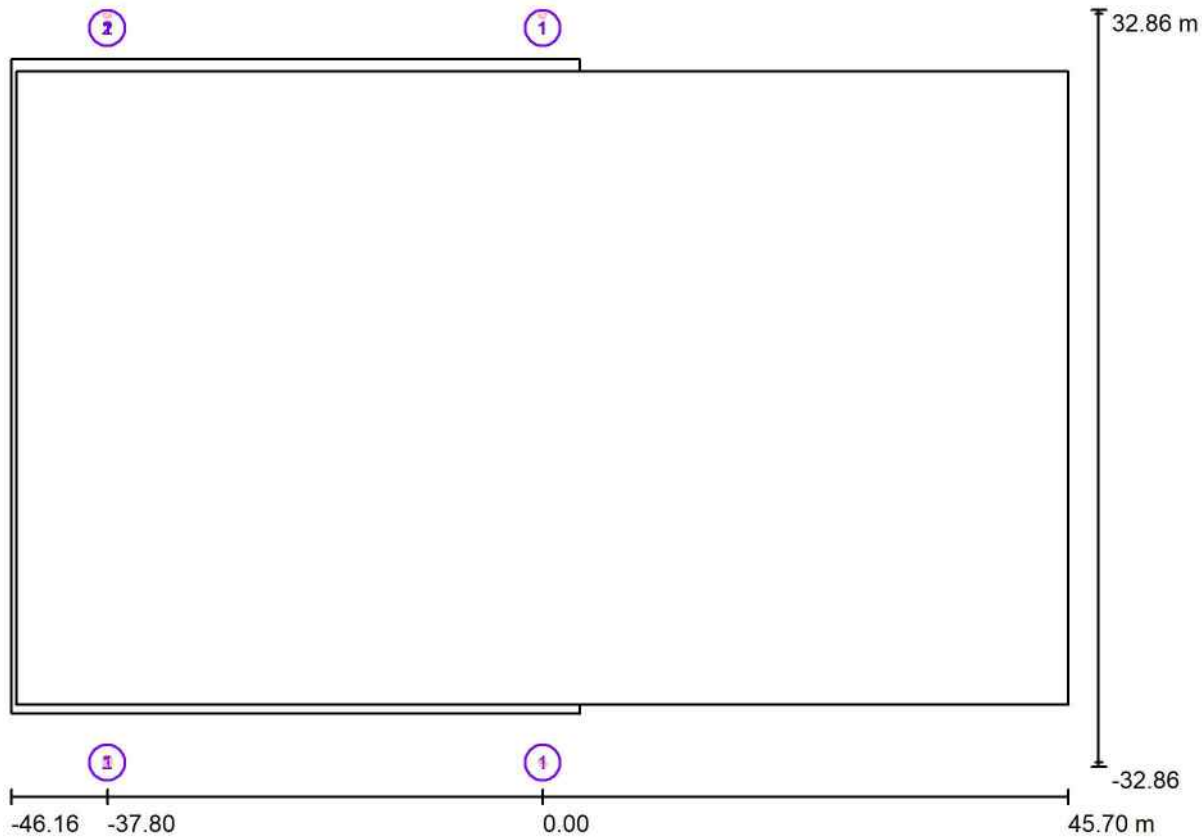
See our luminaire catalog
for an image of the
luminaire.



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Half Pitch 1 / Luminaires (layout plan)



Scale 1 : 657

Luminaire Parts List

No.	Pieces	Designation
1	10	MIDSTREAM - Modus S1500 NS (5000K)
2	2	MIDSTREAM - Modus S1500 WS (5000K)

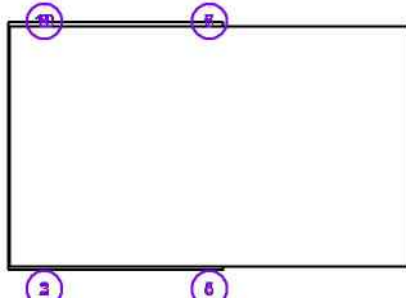
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Half Pitch 1 / Luminaires (coordinates list)

MIDSTREAM - Modus S1500 NS (5000K)

172248 lm, 1500.0 W, 1 x 1 x LED (Correction Factor 1.000).



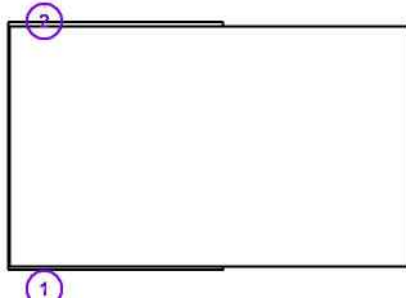
No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	-37.800	-32.500	15.000	0.0	-5.6	93.3
2	-37.800	-32.500	15.000	0.0	-7.8	63.8
3	-37.800	-32.500	15.000	0.0	-6.5	23.5
4	0.000	-32.500	16.000	0.0	-5.6	125.0
5	0.000	-32.500	16.000	0.0	-5.4	100.4
6	0.000	32.500	16.000	0.0	-5.6	-125.0
7	0.000	32.500	16.000	0.0	-5.4	-100.4
8	-37.800	32.500	16.000	0.0	-4.2	-92.8
9	-37.800	32.500	16.000	0.0	-6.5	-63.2
10	-37.800	32.500	16.000	0.0	-5.1	-23.5

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Half Pitch 1 / Luminaires (coordinates list)

MIDSTREAM - Modus S1500 WS (5000K)
 172247 lm, 1500.0 W, 1 x 1 x LED (Correction Factor 1.000).

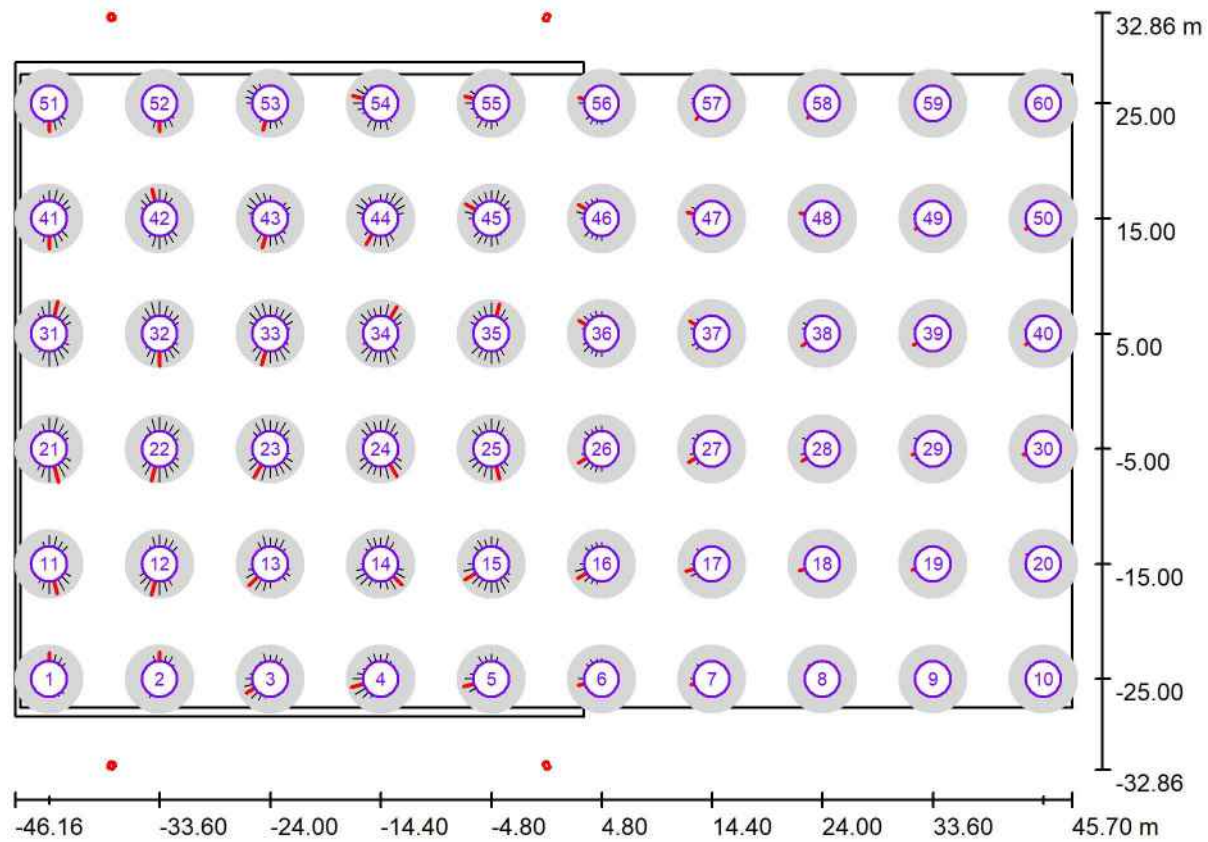


No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	-37.800	-32.500	15.000	0.0	0.1	98.3
2	-37.800	32.500	16.000	0.0	1.5	-98.3

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Half Pitch 1 / GR Observer (Results Overview)



Scale 1 : 657

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]			Slope angle	Max
		X	Y	Z	Start	End	Increment		
1	GR Observer 1	-43.200	-25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
2	GR Observer 2	-33.600	-25.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
3	GR Observer 3	-24.000	-25.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
4	GR Observer 4	-14.400	-25.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾

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Half Pitch 1 / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
5	GR Observer 5	-4.800	-25.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
6	GR Observer 6	4.800	-25.000	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
7	GR Observer 7	14.400	-25.000	1.500	0.0	360.0	15.0	-2.0	30 ²⁾
8	GR Observer 8	24.000	-25.000	1.500	0.0	360.0	15.0	-2.0	27 ²⁾
9	GR Observer 9	33.600	-25.000	1.500	0.0	360.0	15.0	-2.0	24 ²⁾
10	GR Observer 10	43.200	-25.000	1.500	0.0	360.0	15.0	-2.0	23 ²⁾
11	GR Observer 11	-43.200	-15.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
12	GR Observer 12	-33.600	-15.000	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
13	GR Observer 13	-24.000	-15.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
14	GR Observer 14	-14.400	-15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
15	GR Observer 15	-4.800	-15.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
16	GR Observer 16	4.800	-15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
17	GR Observer 17	14.400	-15.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
18	GR Observer 18	24.000	-15.000	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
19	GR Observer 19	33.600	-15.000	1.500	0.0	360.0	15.0	-2.0	30 ²⁾
20	GR Observer 20	43.200	-15.000	1.500	0.0	360.0	15.0	-2.0	27 ²⁾
21	GR Observer 21	-43.200	-5.000	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
22	GR Observer 22	-33.600	-5.000	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
23	GR Observer 23	-24.000	-5.000	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
24	GR Observer 24	-14.400	-5.000	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
25	GR Observer 25	-4.800	-5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
26	GR Observer 26	4.800	-5.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
27	GR Observer 27	14.400	-5.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
28	GR Observer 28	24.000	-5.000	1.500	0.0	360.0	15.0	-2.0	33 ²⁾
29	GR Observer 29	33.600	-5.000	1.500	0.0	360.0	15.0	-2.0	30 ²⁾
30	GR Observer 30	43.200	-5.000	1.500	0.0	360.0	15.0	-2.0	29 ²⁾
31	GR Observer 31	-43.200	5.000	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
32	GR Observer 32	-33.600	5.000	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
33	GR Observer 33	-24.000	5.000	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
34	GR Observer 34	-14.400	5.000	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
35	GR Observer 35	-4.800	5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
36	GR Observer 36	4.800	5.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
37	GR Observer 37	14.400	5.000	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
38	GR Observer 38	24.000	5.000	1.500	0.0	360.0	15.0	-2.0	33 ²⁾
39	GR Observer 39	33.600	5.000	1.500	0.0	360.0	15.0	-2.0	32 ²⁾
40	GR Observer 40	43.200	5.000	1.500	0.0	360.0	15.0	-2.0	28 ²⁾

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Half Pitch 1 / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]			Slope angle	Max
		X	Y	Z	Start	End	Increment		
41	GR Observer 41	-43.200	15.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
42	GR Observer 42	-33.600	15.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
43	GR Observer 43	-24.000	15.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
44	GR Observer 44	-14.400	15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
45	GR Observer 45	-4.800	15.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
46	GR Observer 46	4.800	15.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
47	GR Observer 47	14.400	15.000	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
48	GR Observer 48	24.000	15.000	1.500	0.0	360.0	15.0	-2.0	32 ²⁾
49	GR Observer 49	33.600	15.000	1.500	0.0	360.0	15.0	-2.0	29 ²⁾
50	GR Observer 50	43.200	15.000	1.500	0.0	360.0	15.0	-2.0	29 ²⁾
51	GR Observer 51	-43.200	25.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
52	GR Observer 52	-33.600	25.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
53	GR Observer 53	-24.000	25.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
54	GR Observer 54	-14.400	25.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
55	GR Observer 55	-4.800	25.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
56	GR Observer 56	4.800	25.000	1.500	0.0	360.0	15.0	-2.0	33 ²⁾
57	GR Observer 57	14.400	25.000	1.500	0.0	360.0	15.0	-2.0	31 ²⁾
58	GR Observer 58	24.000	25.000	1.500	0.0	360.0	15.0	-2.0	29 ²⁾
59	GR Observer 59	33.600	25.000	1.500	0.0	360.0	15.0	-2.0	25 ²⁾
60	GR Observer 60	43.200	25.000	1.500	0.0	360.0	15.0	-2.0	24 ²⁾

2) The calculated equivalent veil luminance of the environment is based on the assumption of a complete diffuse reflection behavior of the environment (acc. EN 12464-2).

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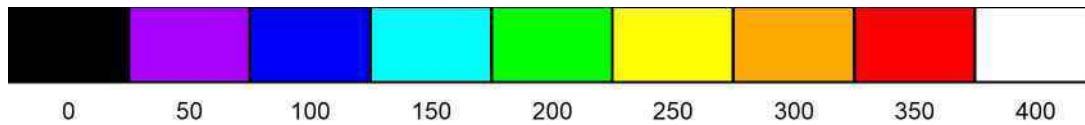
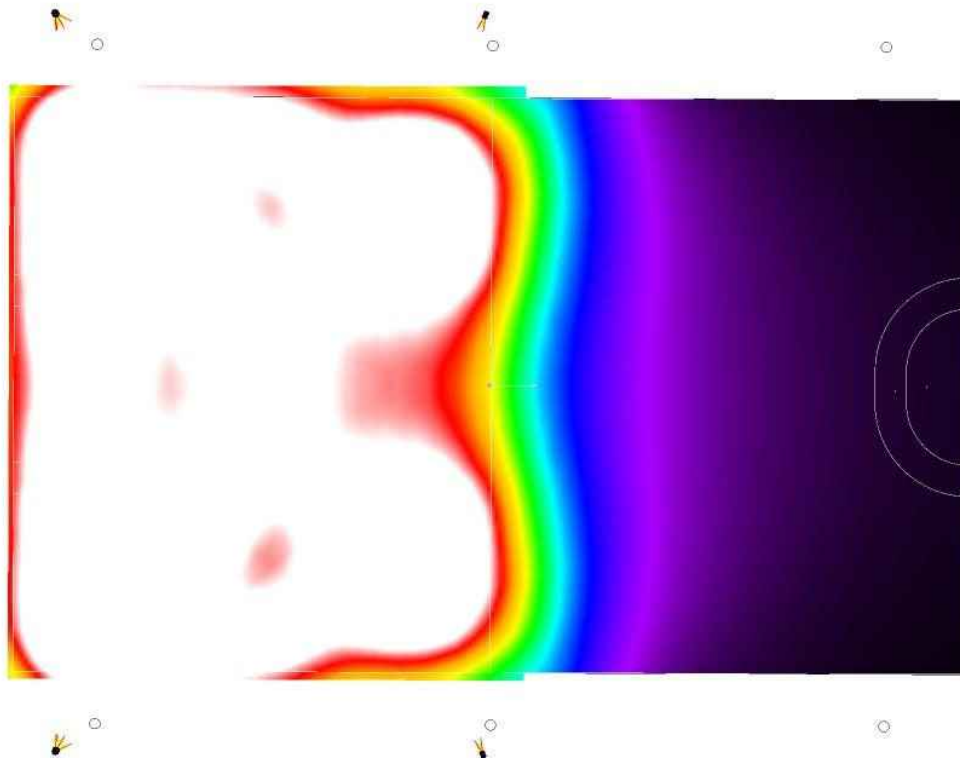
Half Pitch 1 / 3D Rendering



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Half Pitch 1 / False Color Rendering



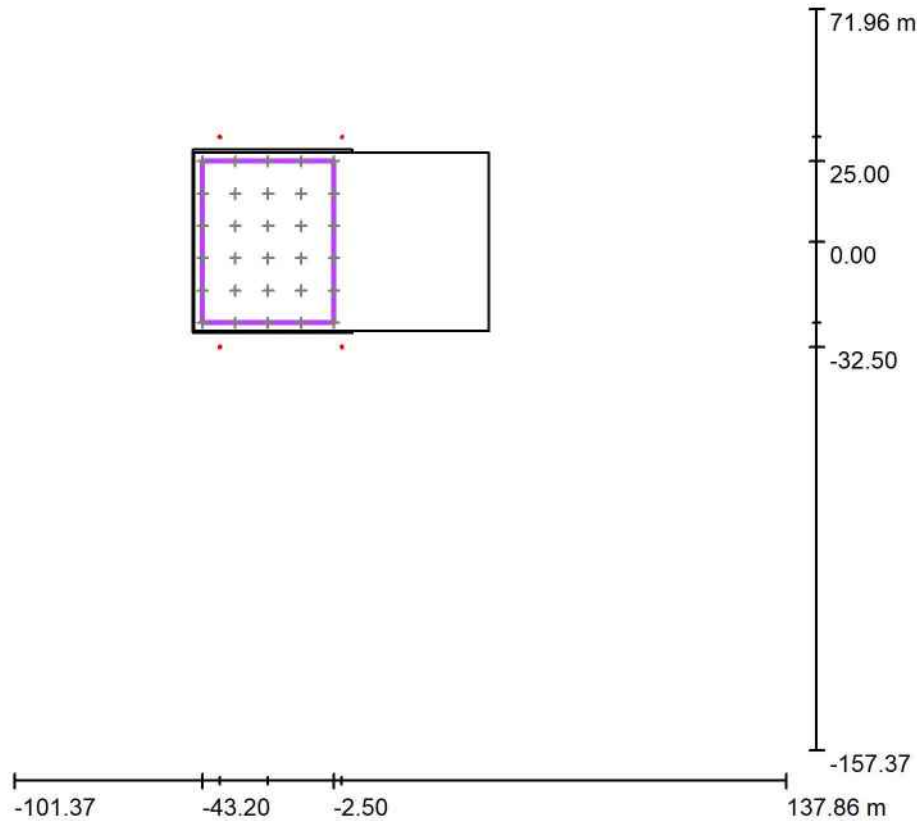
lx



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Half Pitch 1 / Half Pitch 1 / Summary



Scale 1 : 2343

Position: (-22.850 m, 0.000 m, 0.000 m)
 Size: (40.700 m, 50.000 m)
 Rotation: (0.0°, 0.0°, 0.0°)
 Type: Normal, Grid: 5 x 6 Points

Results overview

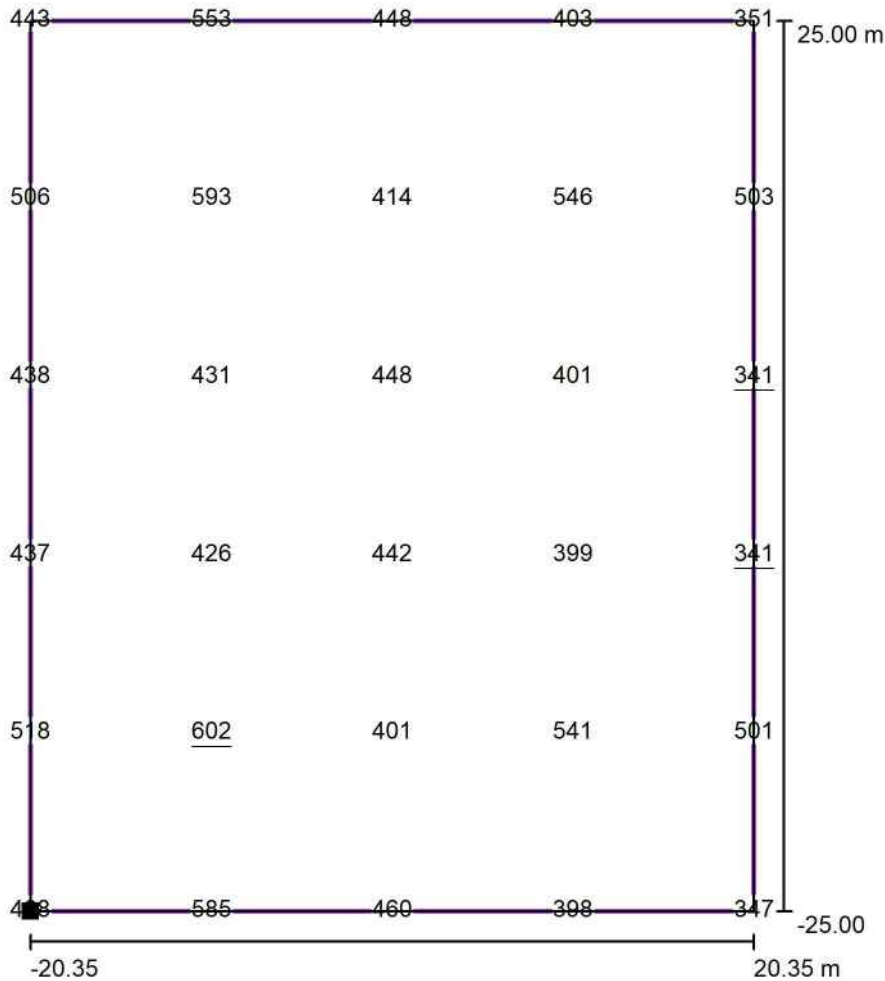
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}	$E_{h,m} / E_m$	H [m]	Camera
1	horizontal	456	341	602	0.75	0.57	/	0.000	/

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

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Half Pitch 1 / Half Pitch 1 / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 425

Position of surface in external scene:
 Marked point: (-43.200 m, -25.000 m,
 0.000 m)



Grid: 5 x 6 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
456	341	602	0.75	0.57

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Half Pitch 1 / Spill Out - House 1 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (105.514 m, 71.961 m,
 0.000 m)



1.000 2.09

0.000 2.16

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
2.12

E_{min} [lx]
2.09

E_{max} [lx]
2.16

$u0$
0.98

E_{min} / E_{max}
0.97

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Half Pitch 1 / Spill Out - House 2 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (109.320 m, 43.252 m,
 0.000 m)



1.000 3.30

0.000 3.42

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
3.36	3.30	3.42	0.98	0.96

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Half Pitch 1 / Spill Out - House 3 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (111.607 m, 27.470 m,
 0.000 m)



1.000 3.64

0.000 3.76

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
3.70	3.64	3.76	0.98	0.97

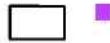
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Half Pitch 1 / Spill Out - House 4 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (112.554 m, 17.411 m,
 0.000 m)



1.000 3.68

0.000 3.81

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
3.74	3.68	3.81	0.98	0.97

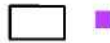
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Half Pitch 1 / Spill Out - House 5 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (112.921 m, 4.824 m,
 0.000 m)



1.000 3.57

0.000 3.72

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
3.65	3.57	3.72	0.98	0.96

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Half Pitch 1 / Spill Out - House 6 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (114.805 m, -9.359 m,
 0.000 m)



1.000 3.23

0.000 3.38

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
3.30	3.23	3.38	0.98	0.96

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Half Pitch 1 / Spill Out - House 7 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (115.660 m, -20.479 m,
 0.000 m)



1.000 2.88

0.000 3.03

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
2.96

E_{min} [lx]
2.88

E_{max} [lx]
3.03

u0
0.98

E_{min} / E_{max}
0.95

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Half Pitch 1 / Spill Out - House 8 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (116.882 m, -32.699 m,
 0.000 m)



1.000 2.42

0.000 2.55

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
2.48

E_{min} [lx]
2.42

E_{max} [lx]
2.55

u0
0.97

E_{min} / E_{max}
0.95

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Half Pitch 1 / Spill Out - House 9 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (120.096 m, -43.937 m,
 0.000 m)



1.000 1.95

0.000 2.03

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.99	1.95	2.03	0.98	0.96

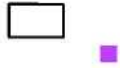
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Half Pitch 1 / Spill Out - House 10 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (122.381 m, -56.528 m,
 0.000 m)



1.000 1.56

0.000 1.62

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
1.59

E_{min} [lx]
1.56

E_{max} [lx]
1.62

u_0
0.98

E_{min} / E_{max}
0.96

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Half Pitch 1 / Spill Out - House 11 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (124.128 m, -67.767 m,
 0.000 m)



1.000 1.23

0.000 1.28

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.25	1.23	1.28	0.98	0.96

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Half Pitch 1 / Spill Out - House 12 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (127.356 m, -79.016 m,
 0.000 m)



1.000 1.00

0.000 1.04

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.02	1.00	1.04	0.98	0.96

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Half Pitch 1 / Spill Out - House 13 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (128.212 m, -88.548 m,
 0.000 m)



1.000 0.86

0.000 0.89

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
0.87	0.86	0.89	0.98	0.96

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Half Pitch 1 / Spill Out - House 14 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (129.958 m, -99.421 m,
 0.000 m)



1.000 0.72

0.000 0.74

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.73

E_{min} [lx]
0.72

E_{max} [lx]
0.74

u0
0.99

E_{min} / E_{max}
0.97

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Half Pitch 1 / Spill Out - House 15 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (131.965 m, -
 109.204 m, 0.000 m)



1.000 0.63

0.000 0.65

m 3.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.64	0.63	0.65	0.99	0.97

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Half Pitch 1 / Spill Out - House 16 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (133.857 m, -
 122.247 m, 0.000 m)



1.000 0.55

0.000 0.57

m 9.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.56

E_{min} [lx]
0.55

E_{max} [lx]
0.57

u_0
0.99

E_{min} / E_{max}
0.97

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Half Pitch 1 / Spill Out - House 18 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (127.153 m, -
 157.373 m, 1.000 m)



1.000 0.57

0.000 0.55

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
0.56	0.55	0.57	0.98	0.97

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Half Pitch 1 / Spill Out - House 19 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (118.099 m, -
 156.395 m, 1.000 m)



1.000 0.65

0.000 0.63

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.64

E_{min} [lx]
0.63

E_{max} [lx]
0.65

u0
0.98

E_{min} / E_{max}
0.97

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Half Pitch 1 / Spill Out - House 20 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (107.345 m, -
 155.662 m, 1.000 m)



1.000 0.76

0.000 0.73

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.75

E_{min} [lx]
0.73

E_{max} [lx]
0.76

u0
0.98

E_{min} / E_{max}
0.97

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Half Pitch 1 / Spill Out - House 21 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (96.469 m, -155.051 m,
 1.000 m)



1.000 0.90

0.000 0.86

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
0.88	0.86	0.90	0.98	0.96

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Half Pitch 1 / Spill Out - House 22 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (84.104 m, -154.073 m,
 1.000 m)



1.000 1.08

0.000 1.04

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.06	1.04	1.08	0.98	0.96

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Half Pitch 1 / Spill Out - House 23 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (73.995 m, -152.851 m,
 1.000 m)



1.000 1.32

0.000 1.27

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.29	1.27	1.32	0.98	0.96

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Half Pitch 1 / Spill Out - House 24 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (64.097 m, -152.118 m,
 1.000 m)



1.000 1.51

0.000 1.45

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.48	1.45	1.51	0.98	0.96

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Half Pitch 1 / Spill Out - House 25 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (50.621 m, -151.141 m,
 1.000 m)



1.000 1.79

0.000 1.71

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.75	1.71	1.79	0.98	0.96

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Half Pitch 1 / Spill Out - House 26 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (38.401 m, -149.919 m,
 1.000 m)



1.000 2.08

0.000 1.99

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
2.04	1.99	2.08	0.98	0.96

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Half Pitch 1 / Spill Out - House 27 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (24.714 m, -148.819 m,
 1.000 m)



1.000 2.40

0.000 2.30

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
2.35	2.30	2.40	0.98	0.96

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Half Pitch 1 / Spill Out - House 28 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (3.996 m, -147.274 m,
 1.000 m)



1.000 2.70

0.000 2.60

m **8.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
2.65	2.60	2.70	0.98	0.96

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Half Pitch 1 / Spill Out - House 29 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-9.729 m, -146.346 m,
 1.000 m)



1.000 3.14

0.000 3.01

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
3.08	3.01	3.14	0.98	0.96

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Half Pitch 1 / Spill Out - House 30 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-19.295 m, -143.006 m,
 1.000 m)



1.000 3.27

0.000 3.11

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
3.19	3.11	3.27	0.98	0.95

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Half Pitch 1 / Spill Out - House 31 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-25.649 m, -138.418 m,
 1.000 m)



1.000 3.20

0.000 3.02

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
3.11	3.02	3.20	0.97	0.95

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Half Pitch 1 / Spill Out - House 32 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-32.537 m, -132.752 m,
 1.000 m)



1.000 3.73

0.000 3.51

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.62

E_{min} [lx]
3.51

E_{max} [lx]
3.73

u0
0.97

E_{min} / E_{max}
0.94

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Half Pitch 1 / Spill Out - House 33 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-36.002 m, -118.095 m,
 1.000 m)



1.000 0.62

0.000 0.59

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.61

E_{min} [lx]
0.59

E_{max} [lx]
0.62

$u0$
0.98

E_{min} / E_{max}
0.96

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Half Pitch 1 / Spill Out - House 34 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-38.113 m, -98.543 m,
 1.000 m)



1.000 1.08

0.000 1.05

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.06	1.05	1.08	0.98	0.97

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Half Pitch 1 / Spill Out - House 35 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-43.779 m, -72.992 m,
 1.000 m)



1.000 2.94

0.000 2.81

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
2.87	2.81	2.94	0.98	0.96

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Half Pitch 1 / Spill Out - House 37 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-61.264 m, -29.524 m,
 1.000 m)



1.000 47
 0.000 46
 m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
46	46	47	0.99	0.98

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Half Pitch 1 / Spill Out - House 38 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-71.091 m, -9.441 m,
 1.000 m)



1.000 39

0.000 38

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
38	38	39	0.99	0.98

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Half Pitch 1 / Spill Out - House 39 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-78.714 m, 3.522 m,
 1.000 m)



1.000 25

0.000 24

m 6.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
24	24	25	0.98	0.97

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Half Pitch 1 / Spill Out - House 40 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-88.370 m, 17.246 m,
 1.000 m)



1.000 12
 0.000 12
 m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
12	12	12	0.99	0.98

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Half Pitch 1 / Spill Out - House 41 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-93.814 m, 31.466 m,
 1.000 m)



1.000 7.27

0.000 7.11

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
7.19	7.11	7.27	0.99	0.98

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Half Pitch 1 / Spill Out - House 42 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-98.702 m, 43.908 m,
 1.000 m)



1.000 4.02
0.000 3.92
m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
3.97	3.92	4.02	0.99	0.98

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Half Pitch 1 / Spill Out - House 43 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-101.368 m, 54.906 m,
 1.000 m)



1.000 2.70

0.000 2.63

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

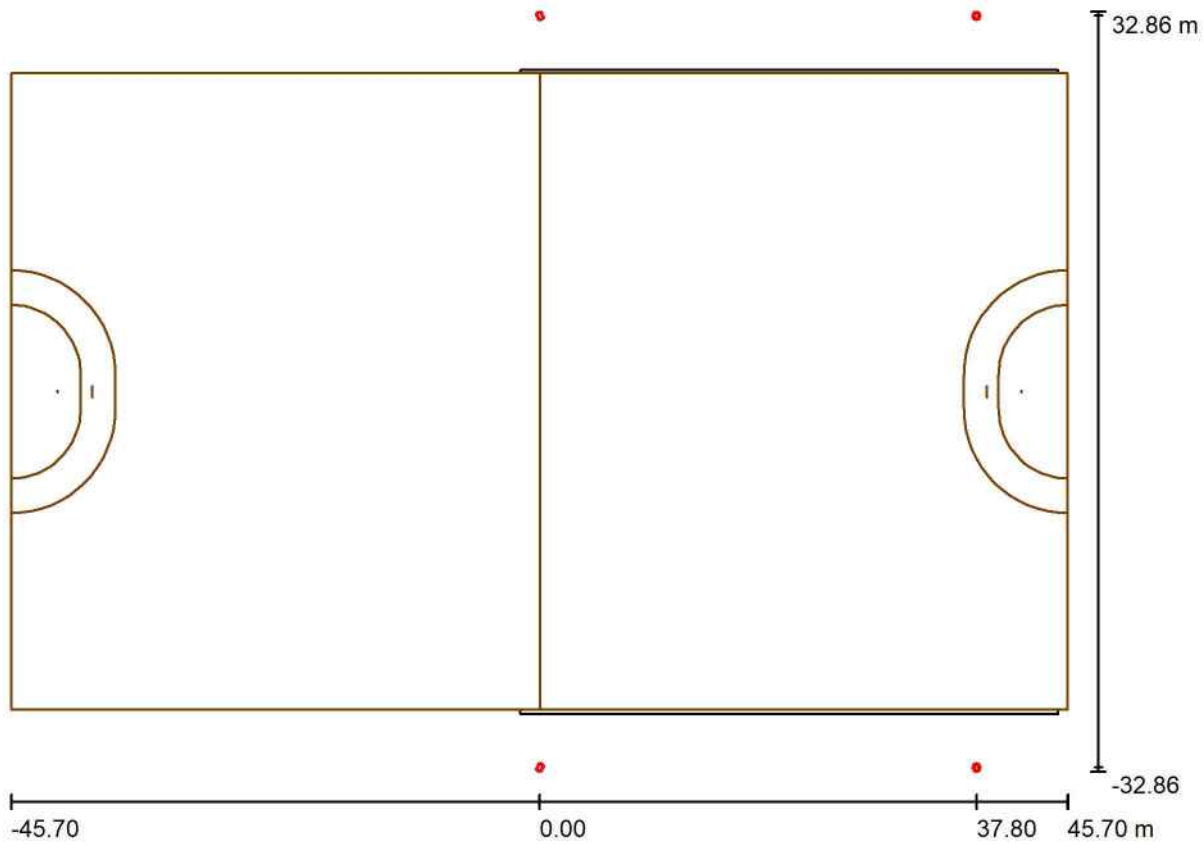
Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
2.66	2.63	2.70	0.99	0.98

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Half Pitch 2 / Planning data



Light loss factor: 0.90, ULR (Upward Light Ratio): 0.5%

Scale 1:654

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	10	MIDSTREAM - Modus S1500 NS (5000K) (1.000)	172248	172245	1500.0
2	2	MIDSTREAM - Modus S1500 WS (5000K) (1.000)	172247	172246	1500.0
Total:			2066973	Total: 2066942	18000.0

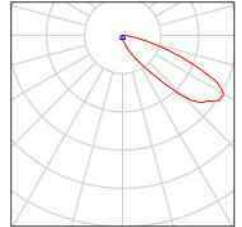
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Half Pitch 2 / Luminaire parts list

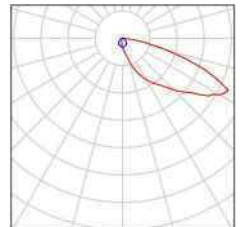
10 Pieces MIDSTREAM - Modus S1500 NS (5000K)
Article No.:
Luminous flux (Luminaire): 172248 lm
Luminous flux (Lamps): 172245 lm
Luminaire Wattage: 1500.0 W
Luminaire classification according to CIE: 100
CIE flux code: 24 67 95 100 100
Fitting: 1 x LED (Correction Factor 1.000).

See our luminaire catalog
for an image of the
luminaire.



2 Pieces MIDSTREAM - Modus S1500 WS (5000K)
Article No.:
Luminous flux (Luminaire): 172247 lm
Luminous flux (Lamps): 172246 lm
Luminaire Wattage: 1500.0 W
Luminaire classification according to CIE: 100
CIE flux code: 31 67 95 100 100
Fitting: 1 x LED (Correction Factor 1.000).

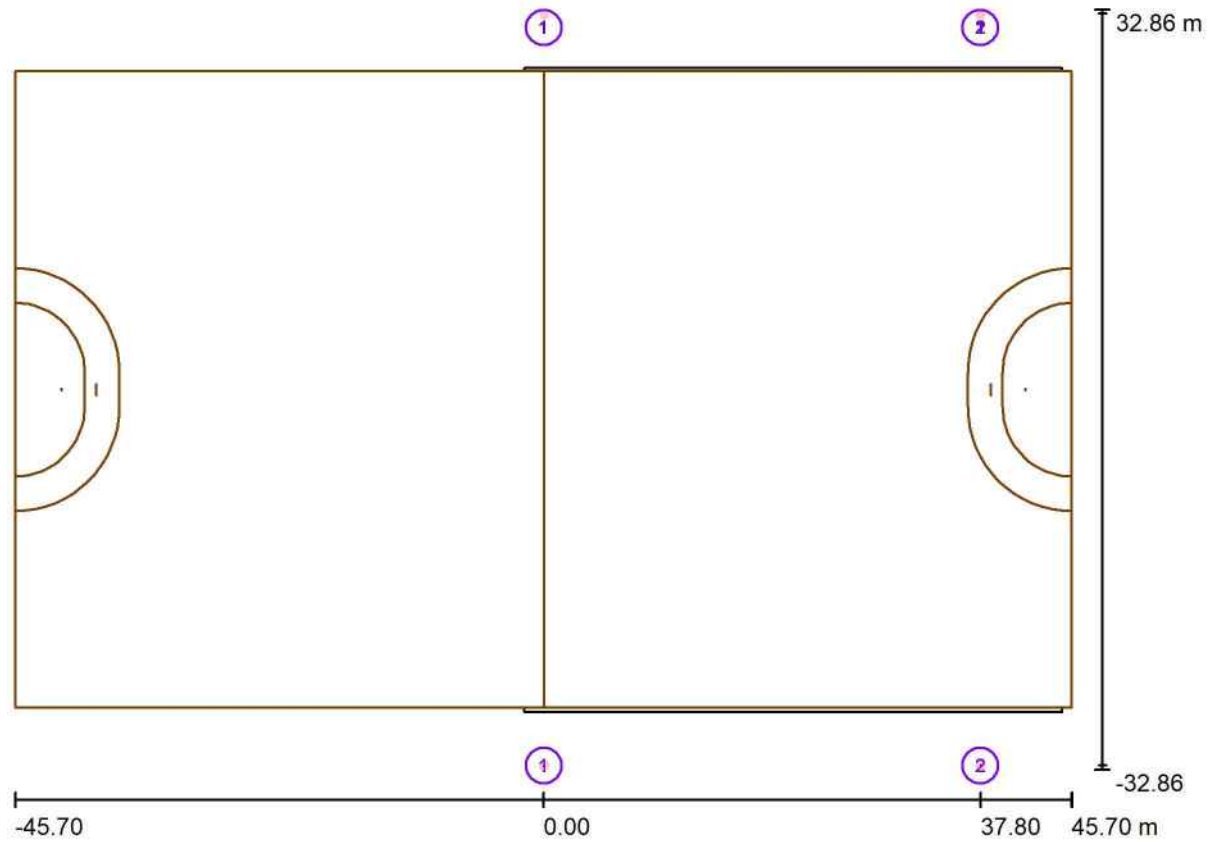
See our luminaire catalog
for an image of the
luminaire.



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Half Pitch 2 / Luminaires (layout plan)



Scale 1 : 654

Luminaire Parts List

No.	Pieces	Designation
1	10	MIDSTREAM - Modus S1500 NS (5000K)
2	2	MIDSTREAM - Modus S1500 WS (5000K)

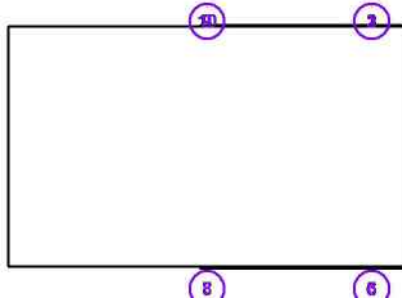
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Half Pitch 2 / Luminaires (coordinates list)

MIDSTREAM - Modus S1500 NS (5000K)

172248 lm, 1500.0 W, 1 x 1 x LED (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	37.800	32.500	16.000	0.0	-4.2	-87.2
2	37.800	32.500	16.000	0.0	-6.5	-116.8
3	37.800	32.500	16.000	0.0	-5.1	-156.5
4	37.800	-32.500	16.000	0.0	-4.2	87.2
5	37.800	-32.500	16.000	0.0	-6.5	116.8
6	37.800	-32.500	16.000	0.0	-5.1	156.5
7	0.000	-32.500	16.000	0.0	-5.6	55.0
8	0.000	-32.500	16.000	0.0	-5.4	79.6
9	0.000	32.500	16.000	0.0	-5.6	-55.0
10	0.000	32.500	16.000	0.0	-5.4	-79.6

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Half Pitch 2 / Luminaires (coordinates list)

MIDSTREAM - Modus S1500 WS (5000K)
 172247 lm, 1500.0 W, 1 x 1 x LED (Correction Factor 1.000).

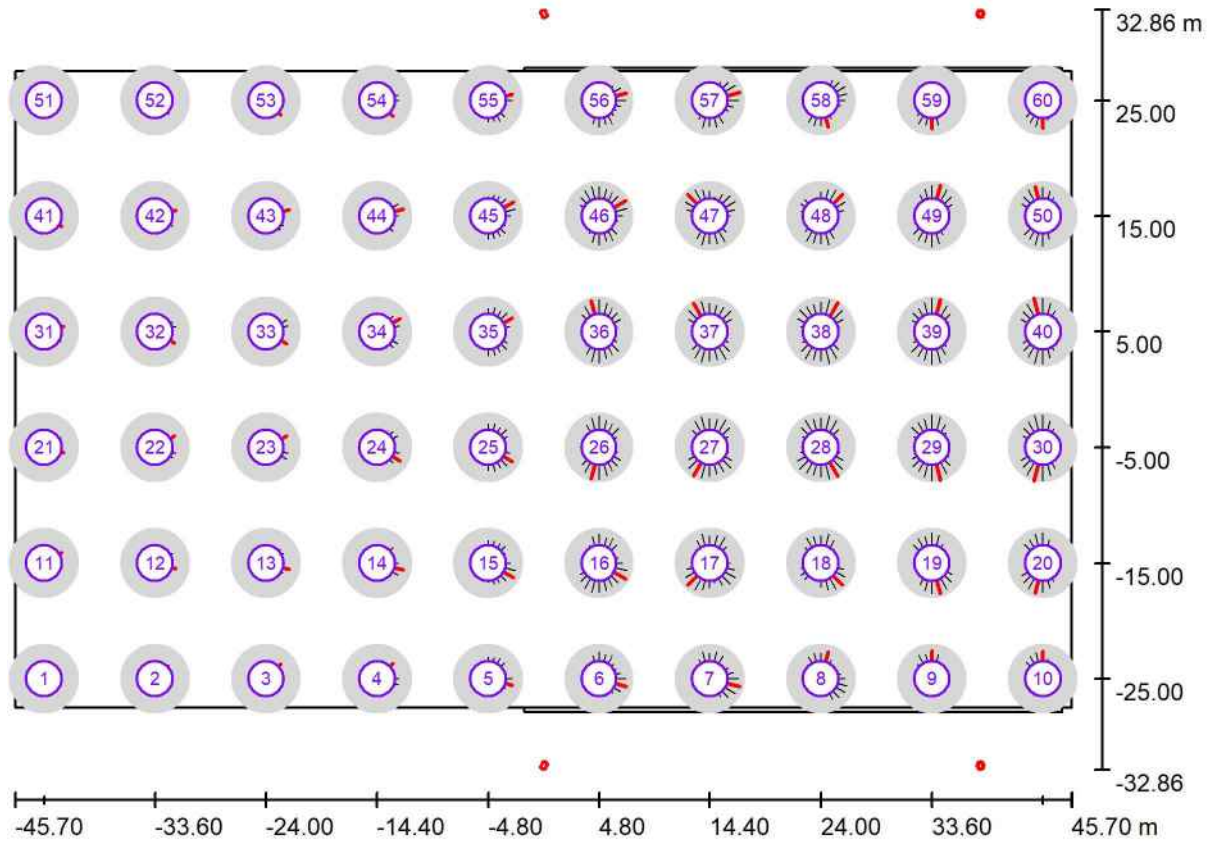


No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	37.800	32.500	16.000	0.0	1.5	-81.7
2	37.800	-32.500	16.000	0.0	1.5	81.7

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Half Pitch 2 / GR Observer (Results Overview)



Scale 1 : 654

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]			Slope angle	Max
		X	Y	Z	Start	End	Increment		
1	GR Observer 1	-43.200	-25.000	1.500	0.0	360.0	15.0	-2.0	23 ²⁾
2	GR Observer 2	-33.600	-25.000	1.500	0.0	360.0	15.0	-2.0	24 ²⁾
3	GR Observer 3	-24.000	-25.000	1.500	0.0	360.0	15.0	-2.0	27 ²⁾
4	GR Observer 4	-14.400	-25.000	1.500	0.0	360.0	15.0	-2.0	29 ²⁾

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Half Pitch 2 / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
5	GR Observer 5	-4.800	-25.000	1.500	0.0	360.0	15.0	-2.0	33 ²⁾
6	GR Observer 6	4.800	-25.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
7	GR Observer 7	14.400	-25.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
8	GR Observer 8	24.000	-25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
9	GR Observer 9	33.600	-25.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
10	GR Observer 10	43.200	-25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
11	GR Observer 11	-43.200	-15.000	1.500	0.0	360.0	15.0	-2.0	27 ²⁾
12	GR Observer 12	-33.600	-15.000	1.500	0.0	360.0	15.0	-2.0	28 ²⁾
13	GR Observer 13	-24.000	-15.000	1.500	0.0	360.0	15.0	-2.0	32 ²⁾
14	GR Observer 14	-14.400	-15.000	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
15	GR Observer 15	-4.800	-15.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
16	GR Observer 16	4.800	-15.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
17	GR Observer 17	14.400	-15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
18	GR Observer 18	24.000	-15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
19	GR Observer 19	33.600	-15.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
20	GR Observer 20	43.200	-15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
21	GR Observer 21	-43.200	-5.000	1.500	0.0	360.0	15.0	-2.0	27 ²⁾
22	GR Observer 22	-33.600	-5.000	1.500	0.0	360.0	15.0	-2.0	30 ²⁾
23	GR Observer 23	-24.000	-5.000	1.500	0.0	360.0	15.0	-2.0	31 ²⁾
24	GR Observer 24	-14.400	-5.000	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
25	GR Observer 25	-4.800	-5.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
26	GR Observer 26	4.800	-5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
27	GR Observer 27	14.400	-5.000	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
28	GR Observer 28	24.000	-5.000	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
29	GR Observer 29	33.600	-5.000	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
30	GR Observer 30	43.200	-5.000	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
31	GR Observer 31	-43.200	5.000	1.500	0.0	360.0	15.0	-2.0	27 ²⁾
32	GR Observer 32	-33.600	5.000	1.500	0.0	360.0	15.0	-2.0	30 ²⁾
33	GR Observer 33	-24.000	5.000	1.500	0.0	360.0	15.0	-2.0	31 ²⁾
34	GR Observer 34	-14.400	5.000	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
35	GR Observer 35	-4.800	5.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
36	GR Observer 36	4.800	5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
37	GR Observer 37	14.400	5.000	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
38	GR Observer 38	24.000	5.000	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
39	GR Observer 39	33.600	5.000	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
40	GR Observer 40	43.200	5.000	1.500	0.0	360.0	15.0	-2.0	46 ²⁾

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Half Pitch 2 / GR Observer (Results Overview)

GR Observerlist

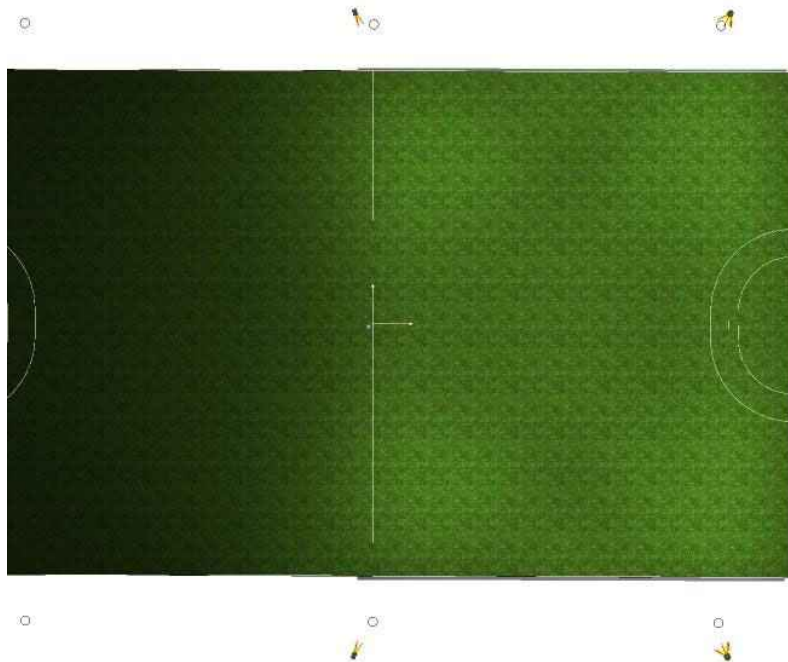
No.	Designation	Position [m]			Start	Viewing sector [°]			Slope angle	Max
		X	Y	Z		End	Increment			
41	GR Observer 41	-43.200	15.000	1.500	0.0	360.0	15.0	-2.0	27 ²⁾	
42	GR Observer 42	-33.600	15.000	1.500	0.0	360.0	15.0	-2.0	28 ²⁾	
43	GR Observer 43	-24.000	15.000	1.500	0.0	360.0	15.0	-2.0	32 ²⁾	
44	GR Observer 44	-14.400	15.000	1.500	0.0	360.0	15.0	-2.0	35 ²⁾	
45	GR Observer 45	-4.800	15.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾	
46	GR Observer 46	4.800	15.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾	
47	GR Observer 47	14.400	15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾	
48	GR Observer 48	24.000	15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾	
49	GR Observer 49	33.600	15.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾	
50	GR Observer 50	43.200	15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾	
51	GR Observer 51	-43.200	25.000	1.500	0.0	360.0	15.0	-2.0	23 ²⁾	
52	GR Observer 52	-33.600	25.000	1.500	0.0	360.0	15.0	-2.0	24 ²⁾	
53	GR Observer 53	-24.000	25.000	1.500	0.0	360.0	15.0	-2.0	27 ²⁾	
54	GR Observer 54	-14.400	25.000	1.500	0.0	360.0	15.0	-2.0	29 ²⁾	
55	GR Observer 55	-4.800	25.000	1.500	0.0	360.0	15.0	-2.0	33 ²⁾	
56	GR Observer 56	4.800	25.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾	
57	GR Observer 57	14.400	25.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾	
58	GR Observer 58	24.000	25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾	
59	GR Observer 59	33.600	25.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾	
60	GR Observer 60	43.200	25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾	

2) The calculated equivalent veil luminance of the environment is based on the assumption of a complete diffuse reflection behavior of the environment (acc. EN 12464-2).

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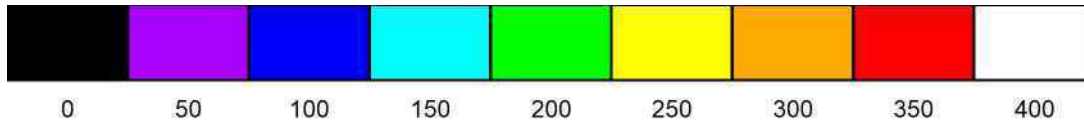
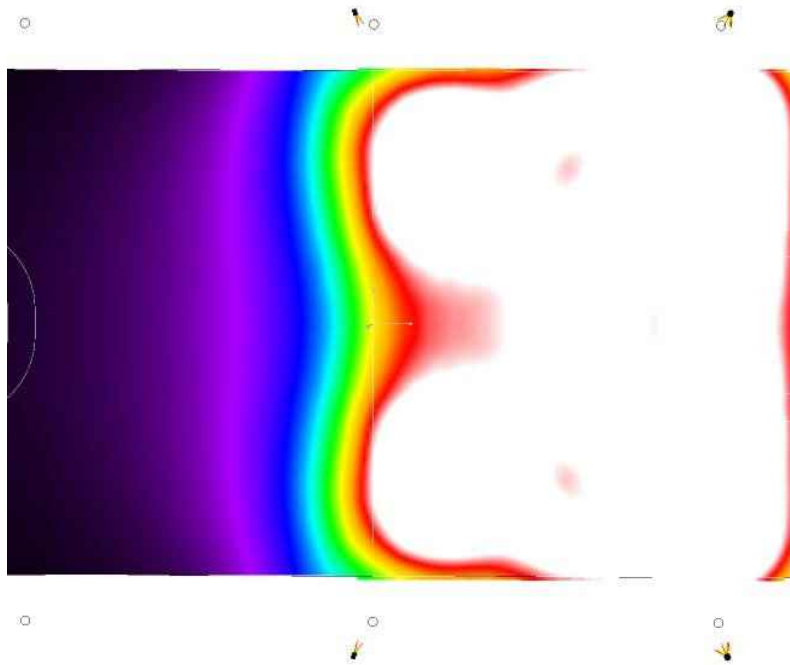
Half Pitch 2 / 3D Rendering



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Half Pitch 2 / False Color Rendering



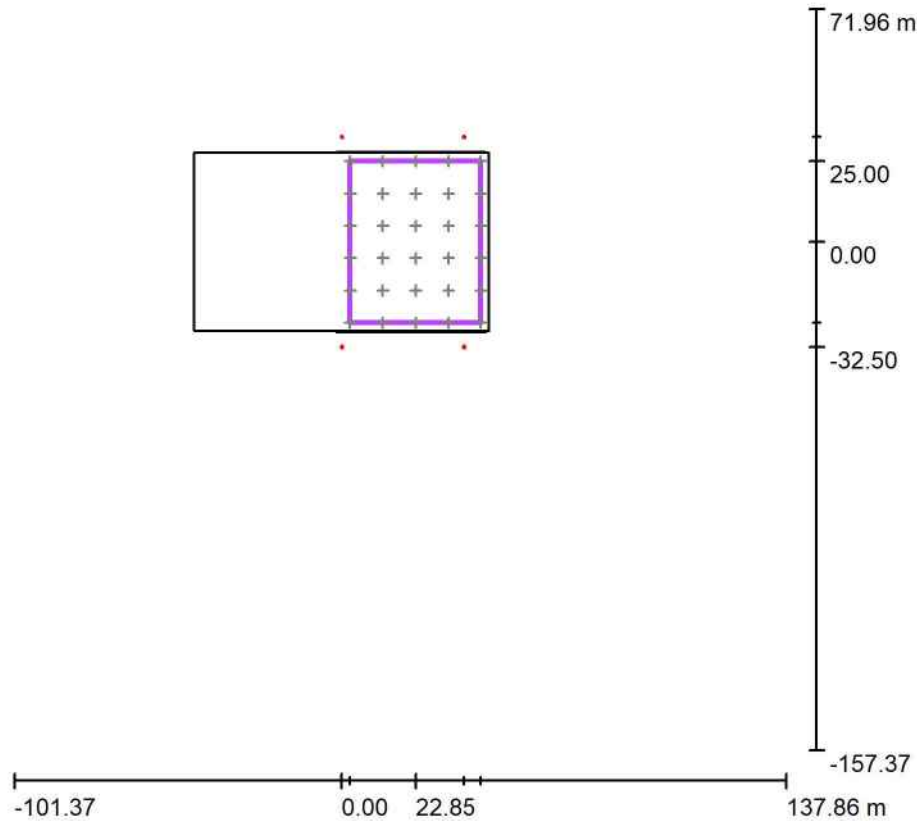
lx



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Half Pitch 2 / Half Pitch 2 / Summary



Scale 1 : 2343

Position: (22.850 m, 0.000 m, 0.000 m)
 Size: (40.700 m, 50.000 m)
 Rotation: (0.0°, 0.0°, 0.0°)
 Type: Normal, Grid: 5 x 6 Points

Results overview

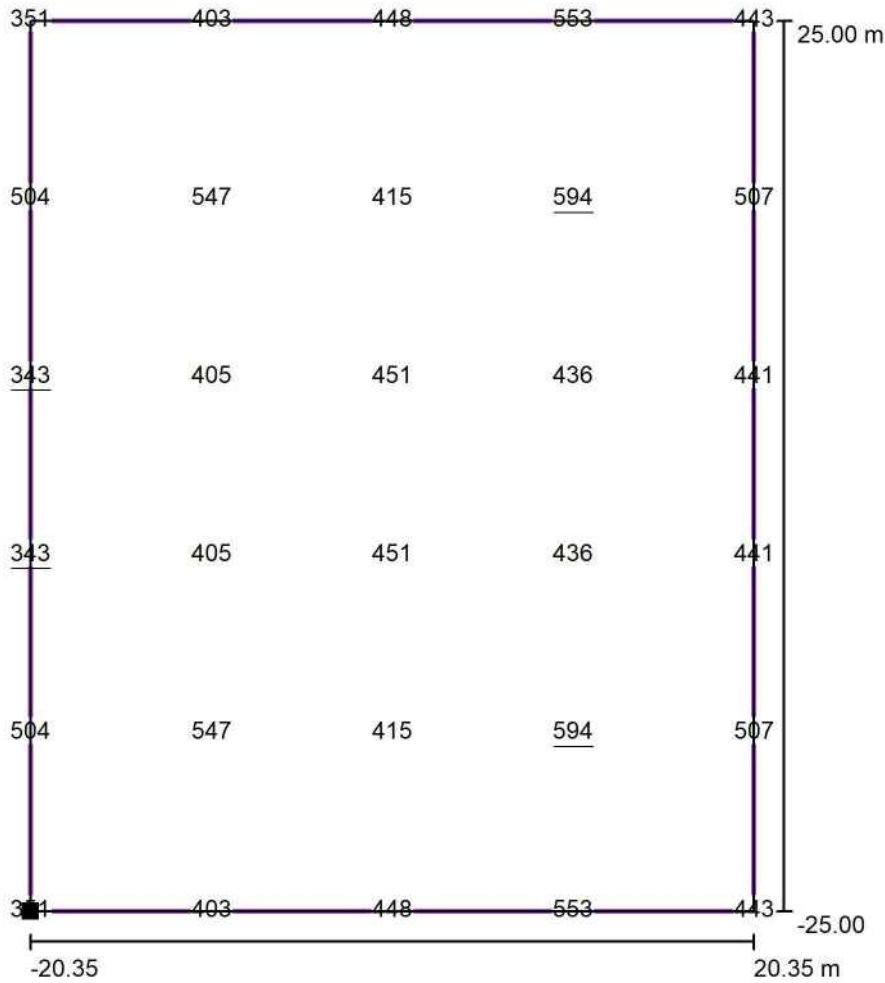
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}	$E_{h,m} / E_m$	H [m]	Camera
1	horizontal	456	343	594	0.75	0.58	/	0.000	/

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

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Half Pitch 2 / Half Pitch 2 / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 425

Position of surface in external scene:
 Marked point: (2.500 m, -25.000 m,
 0.000 m)



Grid: 5 x 6 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
456	343	594	0.75	0.58

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Half Pitch 2 / Spill Out - House 1 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (105.514 m, 71.961 m,
 0.000 m)



1.000 2.78

0.000 2.86

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
2.82	2.78	2.86	0.98	0.97

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Half Pitch 2 / Spill Out - House 2 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (109.320 m, 43.252 m,
 0.000 m)



1.000 3.74

0.000 3.85

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
3.79	3.74	3.85	0.99	0.97

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Half Pitch 2 / Spill Out - House 3 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (111.607 m, 27.470 m,
 0.000 m)



1.000 4.23

0.000 4.35

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
4.29

E_{min} [lx]
4.23

E_{max} [lx]
4.35

u0
0.99

E_{min} / E_{max}
0.97

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Half Pitch 2 / Spill Out - House 4 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (112.554 m, 17.411 m,
 0.000 m)



1.000 4.39

0.000 4.50

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
4.44	4.39	4.50	0.99	0.98

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Half Pitch 2 / Spill Out - House 5 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (112.921 m, 4.824 m,
 0.000 m)



1.000 4.43

0.000 4.55

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
4.49	4.43	4.55	0.99	0.97

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Half Pitch 2 / Spill Out - House 6 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (114.805 m, -9.359 m,
 0.000 m)



1.000 3.84

0.000 3.94

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.89

E_{min} [lx]
3.84

E_{max} [lx]
3.94

u0
0.99

E_{min} / E_{max}
0.98

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Half Pitch 2 / Spill Out - House 7 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (115.660 m, -20.479 m,
 0.000 m)



1.000 3.27

0.000 3.34

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
3.30	3.27	3.34	0.99	0.98

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Half Pitch 2 / Spill Out - House 8 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (116.882 m, -32.699 m,
 0.000 m)



1.000 2.54

0.000 2.61

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
2.57	2.54	2.61	0.99	0.98

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Half Pitch 2 / Spill Out - House 9 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (120.096 m, -43.937 m,
 0.000 m)



1.000 1.94

0.000 1.99

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.96	1.94	1.99	0.99	0.98

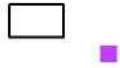
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Half Pitch 2 / Spill Out - House 10 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (122.381 m, -56.528 m,
 0.000 m)



1.000 1.60

0.000 1.63

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
1.61

E_{min} [lx]
1.60

E_{max} [lx]
1.63

u_0
0.99

E_{min} / E_{max}
0.98

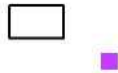
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Half Pitch 2 / Spill Out - House 11 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (124.128 m, -67.767 m,
 0.000 m)



1.000 1.39

0.000 1.42

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.40	1.39	1.42	0.99	0.98

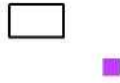
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Half Pitch 2 / Spill Out - House 12 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (127.356 m, -79.016 m,
 0.000 m)



1.000 1.20

0.000 1.23

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.21	1.20	1.23	0.99	0.97

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Half Pitch 2 / Spill Out - House 13 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (128.212 m, -88.548 m,
 0.000 m)



1.000 1.07

0.000 1.11

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.09	1.07	1.11	0.98	0.96

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Half Pitch 2 / Spill Out - House 14 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (129.958 m, -99.421 m,
 0.000 m)



1.000 0.93

0.000 0.97

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
 0.95

E_{min} [lx]
 0.93

E_{max} [lx]
 0.97

u_0
 0.98

E_{min} / E_{max}
 0.96

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Half Pitch 2 / Spill Out - House 15 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (131.965 m, -
 109.204 m, 0.000 m)



1.000 0.83

0.000 0.86

m 3.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.85	0.83	0.86	0.98	0.96

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Half Pitch 2 / Spill Out - House 16 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (133.857 m, -
 122.247 m, 0.000 m)



1.000 0.76

0.000 0.79

m 9.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.78

E_{min} [lx]
0.76

E_{max} [lx]
0.79

u_0
0.98

E_{min} / E_{max}
0.96

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Half Pitch 2 / Spill Out - House 17 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (137.862 m, -
 148.129 m, 0.000 m)



1.000 0.68

0.000 0.70

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.69

E_{min} [lx]
0.68

E_{max} [lx]
0.70

u0
0.98

E_{min} / E_{max}
0.96

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Half Pitch 2 / Spill Out - House 18 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (127.153 m, -
 157.373 m, 1.000 m)



1.000 1.10

0.000 1.05

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
1.08

E_{min} [lx]
1.05

E_{max} [lx]
1.10

u0
0.98

E_{min} / E_{max}
0.96

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Half Pitch 2 / Spill Out - House 19 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (118.099 m, -
 156.395 m, 1.000 m)



1.000 1.25

0.000 1.20

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
1.22

E_{min} [lx]
1.20

E_{max} [lx]
1.25

u0
0.98

E_{min} / E_{max}
0.96

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Half Pitch 2 / Spill Out - House 20 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (107.345 m, -
 155.662 m, 1.000 m)



1.000 1.47

0.000 1.41

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
1.44

E_{min} [lx]
1.41

E_{max} [lx]
1.47

u_0
0.98

E_{min} / E_{max}
0.96

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Half Pitch 2 / Spill Out - House 21 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (96.469 m, -155.051 m,
 1.000 m)



1.000 1.71

0.000 1.63

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
1.67

E_{min} [lx]
1.63

E_{max} [lx]
1.71

u_0
0.98

E_{min} / E_{max}
0.95

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Half Pitch 2 / Spill Out - House 22 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (84.104 m, -154.073 m,
 1.000 m)



1.000 1.98

0.000 1.89

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
1.94

E_{min} [lx]
1.89

E_{max} [lx]
1.98

u_0
0.98

E_{min} / E_{max}
0.95

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Half Pitch 2 / Spill Out - House 23 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (73.995 m, -152.851 m,
 1.000 m)



1.000 2.30

0.000 2.19

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
2.25	2.19	2.30	0.97	0.95

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Half Pitch 2 / Spill Out - House 24 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (64.097 m, -152.118 m,
 1.000 m)



1.000 2.59

0.000 2.45

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
2.52	2.45	2.59	0.97	0.95

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Half Pitch 2 / Spill Out - House 25 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (50.621 m, -151.141 m,
 1.000 m)



1.000 2.96

0.000 2.80

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
2.88	2.80	2.96	0.97	0.95

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Half Pitch 2 / Spill Out - House 26 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (38.401 m, -149.919 m,
 1.000 m)



1.000 3.23

0.000 3.06

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
3.15	3.06	3.23	0.97	0.95

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Half Pitch 2 / Spill Out - House 27 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (24.714 m, -148.819 m,
 1.000 m)



1.000 3.36

0.000 3.18

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.27

E_{min} [lx]
3.18

E_{max} [lx]
3.36

u_0
0.97

E_{min} / E_{max}
0.95

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Half Pitch 2 / Spill Out - House 28 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (3.996 m, -147.274 m,
 1.000 m)



1.000 3.22
0.000 3.09
 m **8.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
3.15	3.09	3.22	0.98	0.96

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Half Pitch 2 / Spill Out - House 29 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-9.729 m, -146.346 m,
 1.000 m)



1.000 2.94

0.000 2.83

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
2.88	2.83	2.94	0.98	0.96

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Half Pitch 2 / Spill Out - House 30 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-19.295 m, -143.006 m,
 1.000 m)



1.000 2.88

0.000 2.77

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
2.82	2.77	2.88	0.98	0.96

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Half Pitch 2 / Spill Out - House 31 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-25.649 m, -138.418 m,
 1.000 m)



1.000 2.81

0.000 2.71

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
2.76	2.71	2.81	0.98	0.97

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Half Pitch 2 / Spill Out - House 32 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-32.537 m, -132.752 m,
 1.000 m)



1.000 3.01

0.000 2.91

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
2.96	2.91	3.01	0.98	0.97

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Half Pitch 2 / Spill Out - House 33 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-36.002 m, -118.095 m,
 1.000 m)



1.000 1.38

0.000 1.34

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.36	1.34	1.38	0.98	0.97

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Half Pitch 2 / Spill Out - House 34 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-38.113 m, -98.543 m,
 1.000 m)



1.000 2.17

0.000 2.07

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
2.12	2.07	2.17	0.98	0.96

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Half Pitch 2 / Spill Out - House 35 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-43.779 m, -72.992 m,
 1.000 m)



1.000 3.53

0.000 3.40

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
3.46	3.40	3.53	0.98	0.96

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Half Pitch 2 / Spill Out - House 36 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-51.960 m, -51.388 m,
 1.000 m)



1.000 6.27

0.000 6.08

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
6.17

E_{min} [lx]
6.08

E_{max} [lx]
6.27

$u0$
0.98

E_{min} / E_{max}
0.97

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Half Pitch 2 / Spill Out - House 37 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-61.264 m, -29.524 m,
 1.000 m)



1.000 9.38

0.000 8.99

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
9.18

E_{min} [lx]
8.99

E_{max} [lx]
9.38

$u0$
0.98

E_{min} / E_{max}
0.96

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Half Pitch 2 / Spill Out - House 38 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-71.091 m, -9.441 m,
 1.000 m)



1.000 11

0.000 10

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
11	10	11	0.97	0.95

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Half Pitch 2 / Spill Out - House 39 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-78.714 m, 3.522 m,
 1.000 m)



1.000 9.19

0.000 8.58

m **6.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
8.89

E_{min} [lx]
8.58

E_{max} [lx]
9.19

u_0
0.97

E_{min} / E_{max}
0.93

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Half Pitch 2 / Spill Out - House 40 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-88.370 m, 17.246 m,
 1.000 m)



1.000 5.90

0.000 5.66

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
5.78	5.66	5.90	0.98	0.96

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Half Pitch 2 / Spill Out - House 41 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-93.814 m, 31.466 m,
 1.000 m)



1.000 4.16

0.000 3.99

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
4.07	3.99	4.16	0.98	0.96

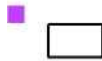
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Half Pitch 2 / Spill Out - House 42 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-98.702 m, 43.908 m,
 1.000 m)



1.000 3.00

0.000 2.87

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
2.94

E_{min} [lx]
2.87

E_{max} [lx]
3.00

$u0$
0.98

E_{min} / E_{max}
0.96

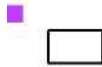
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Half Pitch 2 / Spill Out - House 43 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-101.368 m, 54.906 m,
 1.000 m)



1.000 2.22

0.000 2.13

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
2.18	2.13	2.22	0.98	0.96

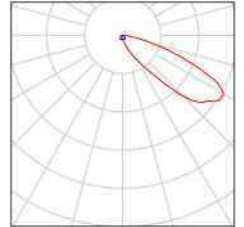
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Dimming Full Pitch - 350 lux / Luminaire parts list

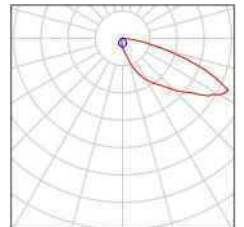
20 Pieces MIDSTREAM - Modus S1500 NS (5000K)
Article No.:
Luminous flux (Luminaire): 172248 lm
Luminous flux (Lamps): 172245 lm
Luminaire Wattage: 1500.0 W
Luminaire classification according to CIE: 100
CIE flux code: 24 67 95 100 100
Fitting: 1 x LED (Correction Factor 1.000).

See our luminaire catalog
for an image of the
luminaire.



4 Pieces MIDSTREAM - Modus S1500 WS (5000K)
Article No.:
Luminous flux (Luminaire): 172247 lm
Luminous flux (Lamps): 172246 lm
Luminaire Wattage: 1500.0 W
Luminaire classification according to CIE: 100
CIE flux code: 31 67 95 100 100
Fitting: 1 x LED (Correction Factor 1.000).

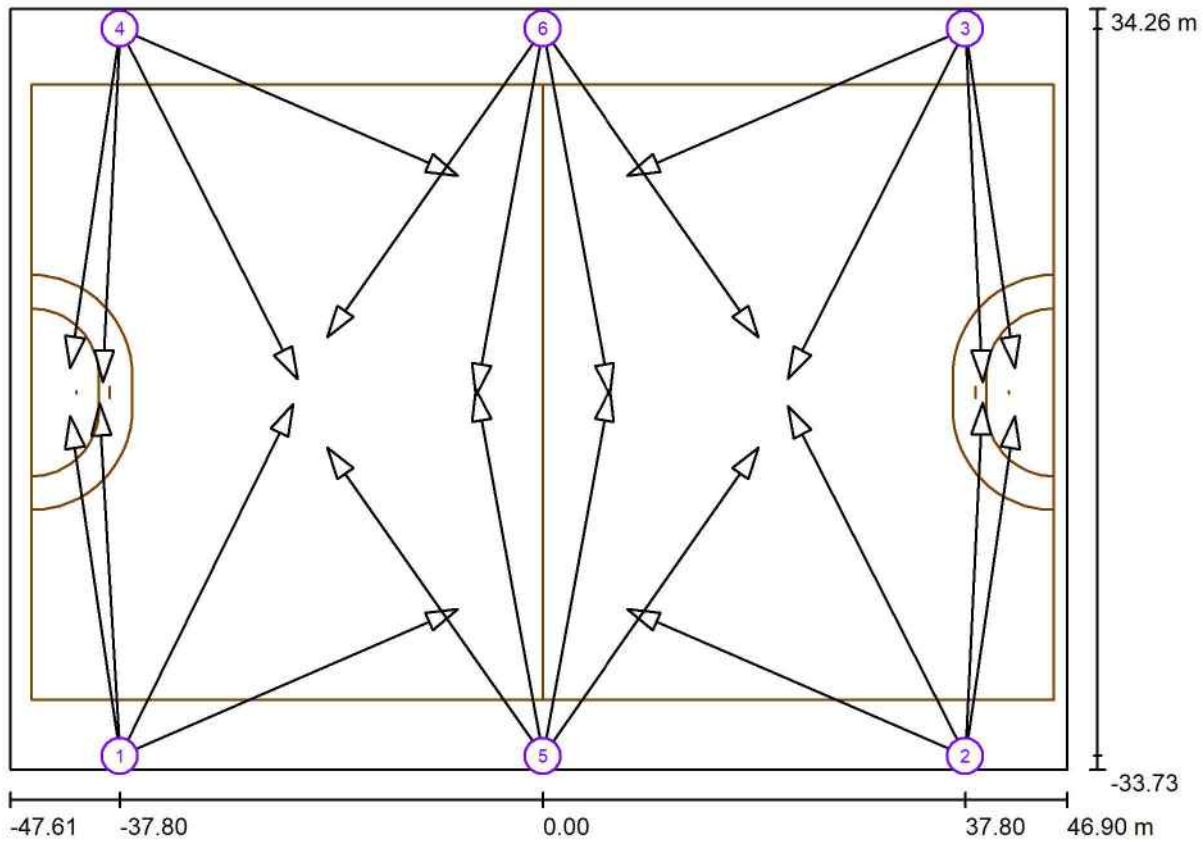
See our luminaire catalog
for an image of the
luminaire.



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Dimming Full Pitch - 350 lux / Sport Luminaires (Coordinates List)



Scale 1 : 676

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
MIDSTREAM - Modus S1500 WS (5000K)	1	-37.800	-32.500	15.000	-42.237	-2.150	0.000	26.1	(C IMax, G IMax)	Pole Position 1
MIDSTREAM - Modus S1500 NS (5000K)	1	-37.800	-32.500	15.000	-39.640	-0.991	0.000	25.4	(C IMax, G IMax)	Pole Position 1
MIDSTREAM - Modus S1500 NS (5000K)	1	-37.800	-32.500	15.000	-22.295	-1.046	0.000	23.2	(C IMax, G IMax)	Pole Position 1
MIDSTREAM - Modus S1500 NS (5000K)	1	-37.800	-32.500	15.000	-7.585	-19.347	0.000	24.5	(C IMax, G IMax)	Pole Position 1

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Dimming Full Pitch - 350 lux / Sport Luminaires (Coordinates List)

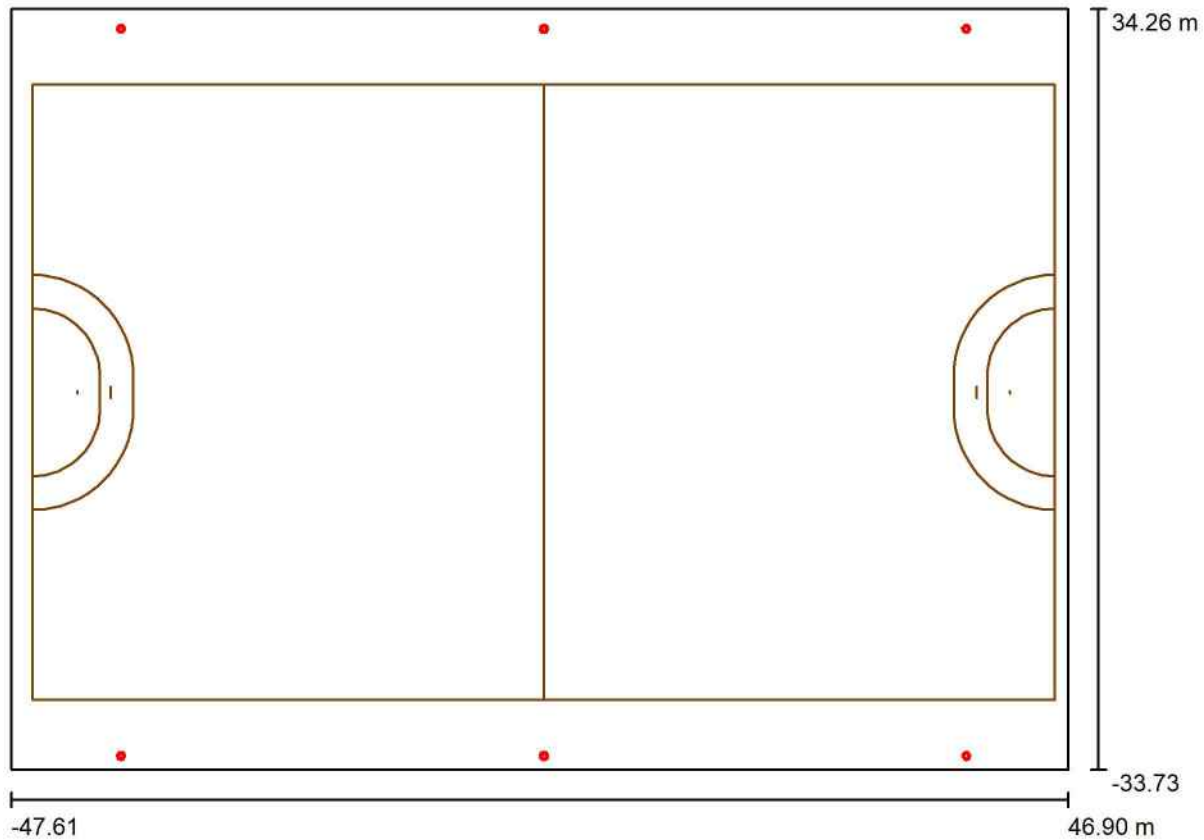
List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
MIDSTREAM - Modus S1500 NS (5000K)	2	37.800	-32.500	16.000	39.339	-0.927	0.000	26.8	(C IMax, G IMax)	Pole Position 4
MIDSTREAM - Modus S1500 NS (5000K)	2	37.800	-32.500	16.000	21.948	-1.184	0.000	24.5	(C IMax, G IMax)	Pole Position 4
MIDSTREAM - Modus S1500 NS (5000K)	2	37.800	-32.500	16.000	7.585	-19.347	0.000	25.9	(C IMax, G IMax)	Pole Position 4
MIDSTREAM - Modus S1500 WS (5000K)	2	37.800	-32.500	16.000	42.237	-2.150	0.000	27.5	(C IMax, G IMax)	Pole Position 4
MIDSTREAM - Modus S1500 WS (5000K)	3	37.800	32.500	16.000	42.237	2.150	0.000	27.5	(C IMax, G IMax)	Pole Position 5
MIDSTREAM - Modus S1500 WS (5000K)	4	-37.800	32.500	16.000	-42.237	2.150	0.000	27.5	(C IMax, G IMax)	Pole Position 6
MIDSTREAM - Modus S1500 NS (5000K)	3	37.800	32.500	16.000	39.339	0.927	0.000	26.8	(C IMax, G IMax)	Pole Position 5
MIDSTREAM - Modus S1500 NS (5000K)	3	37.800	32.500	16.000	21.948	1.184	0.000	24.5	(C IMax, G IMax)	Pole Position 5
MIDSTREAM - Modus S1500 NS (5000K)	3	37.800	32.500	16.000	7.585	19.347	0.000	25.9	(C IMax, G IMax)	Pole Position 5
MIDSTREAM - Modus S1500 NS (5000K)	4	-37.800	32.500	16.000	-39.339	0.927	0.000	26.8	(C IMax, G IMax)	Pole Position 6
MIDSTREAM - Modus S1500 NS (5000K)	4	-37.800	32.500	16.000	-21.948	1.184	0.000	24.5	(C IMax, G IMax)	Pole Position 6
MIDSTREAM - Modus S1500 NS (5000K)	4	-37.800	32.500	16.000	-7.585	19.347	0.000	25.9	(C IMax, G IMax)	Pole Position 6
MIDSTREAM - Modus S1500 NS (5000K)	5	0.000	-32.500	16.000	-19.303	-4.925	0.000	25.4	(C IMax, G IMax)	Pole Position 2
MIDSTREAM - Modus S1500 NS (5000K)	5	0.000	-32.500	16.000	-6.022	0.300	0.000	25.6	(C IMax, G IMax)	Pole Position 2
MIDSTREAM - Modus S1500 NS (5000K)	5	0.000	-32.500	16.000	19.303	-4.925	0.000	25.4	(C IMax, G IMax)	Pole Position 2
MIDSTREAM - Modus S1500 NS (5000K)	5	0.000	-32.500	16.000	6.022	0.300	0.000	25.6	(C IMax, G IMax)	Pole Position 2
MIDSTREAM - Modus S1500 NS (5000K)	6	0.000	32.500	16.000	-19.303	4.925	0.000	25.4	(C IMax, G IMax)	Pole Position 3
MIDSTREAM - Modus S1500 NS (5000K)	6	0.000	32.500	16.000	-6.022	-0.300	0.000	25.6	(C IMax, G IMax)	Pole Position 3
MIDSTREAM - Modus S1500 NS (5000K)	6	0.000	32.500	16.000	19.303	4.925	0.000	25.4	(C IMax, G IMax)	Pole Position 3
MIDSTREAM - Modus S1500 NS (5000K)	6	0.000	32.500	16.000	6.022	-0.300	0.000	25.6	(C IMax, G IMax)	Pole Position 3

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Dimming Full Pitch - 350 lux / Light scene 1 / Planning data



Light loss factor: 0.90, ULR (Upward Light Ratio): 0.5%

Scale 1:676

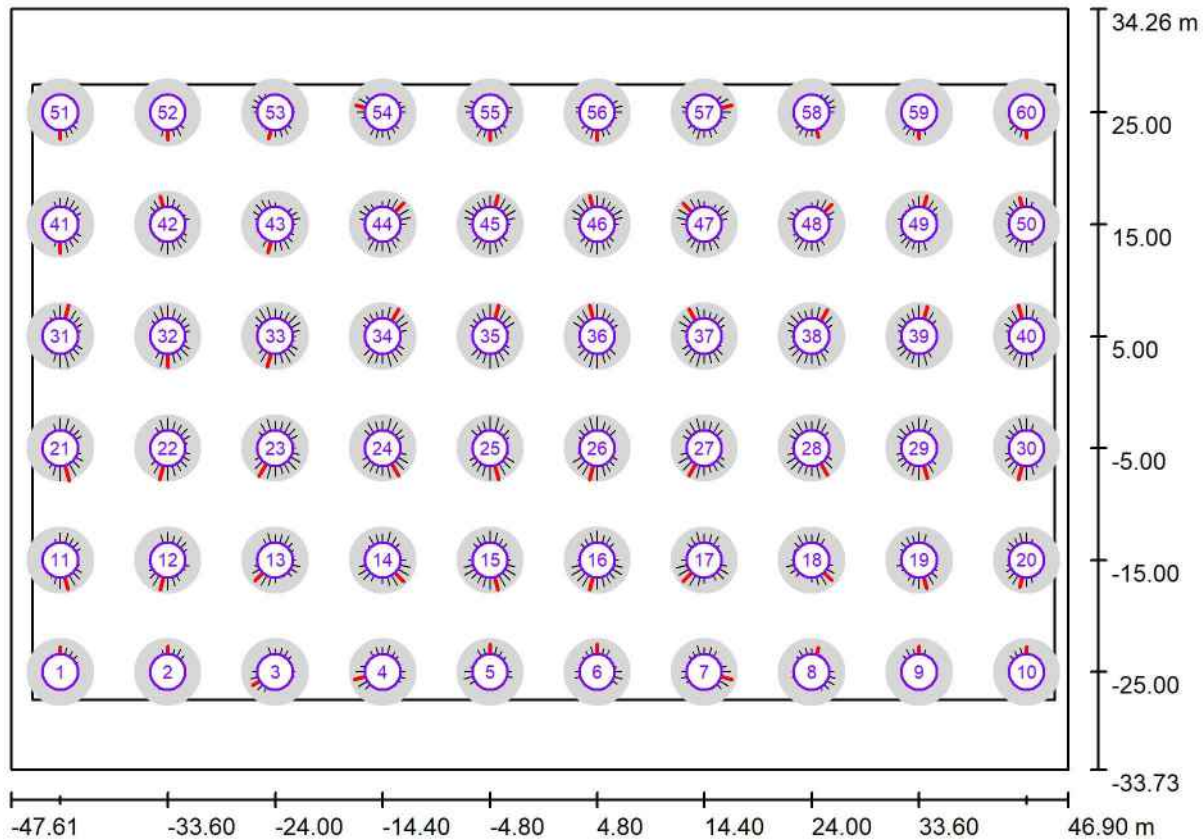
Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	20	MIDSTREAM - Modus S1500 NS (5000K) (1.000)	172248	172245	1500.0
2	4	MIDSTREAM - Modus S1500 WS (5000K) (1.000)	172247	172246	1500.0
Total:			4133946	Total: 4133884	36000.0

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Dimming Full Pitch - 350 lux / Light scene 1 / GR Observer (Results Overview)



Scale 1 : 676

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]			Slope angle	Max
		X	Y	Z	Start	End	Increment		
1	GR Observer 1	-43.200	-25.000	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
2	GR Observer 2	-33.600	-25.000	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
3	GR Observer 3	-24.000	-25.000	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
4	GR Observer 4	-14.400	-25.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾

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Dimming Full Pitch - 350 lux / Light scene 1 / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
5	GR Observer 5	-4.800	-25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
6	GR Observer 6	4.800	-25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
7	GR Observer 7	14.400	-25.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
8	GR Observer 8	24.000	-25.000	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
9	GR Observer 9	33.600	-25.000	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
10	GR Observer 10	43.200	-25.000	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
11	GR Observer 11	-43.200	-15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
12	GR Observer 12	-33.600	-15.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
13	GR Observer 13	-24.000	-15.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
14	GR Observer 14	-14.400	-15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
15	GR Observer 15	-4.800	-15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
16	GR Observer 16	4.800	-15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
17	GR Observer 17	14.400	-15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
18	GR Observer 18	24.000	-15.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
19	GR Observer 19	33.600	-15.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
20	GR Observer 20	43.200	-15.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
21	GR Observer 21	-43.200	-5.000	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
22	GR Observer 22	-33.600	-5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
23	GR Observer 23	-24.000	-5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
24	GR Observer 24	-14.400	-5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
25	GR Observer 25	-4.800	-5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
26	GR Observer 26	4.800	-5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
27	GR Observer 27	14.400	-5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
28	GR Observer 28	24.000	-5.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
29	GR Observer 29	33.600	-5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
30	GR Observer 30	43.200	-5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
31	GR Observer 31	-43.200	5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
32	GR Observer 32	-33.600	5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
33	GR Observer 33	-24.000	5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
34	GR Observer 34	-14.400	5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
35	GR Observer 35	-4.800	5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
36	GR Observer 36	4.800	5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
37	GR Observer 37	14.400	5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
38	GR Observer 38	24.000	5.000	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
39	GR Observer 39	33.600	5.000	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
40	GR Observer 40	43.200	5.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾

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Dimming Full Pitch - 350 lux / Light scene 1 / GR Observer (Results Overview)

GR Observerlist

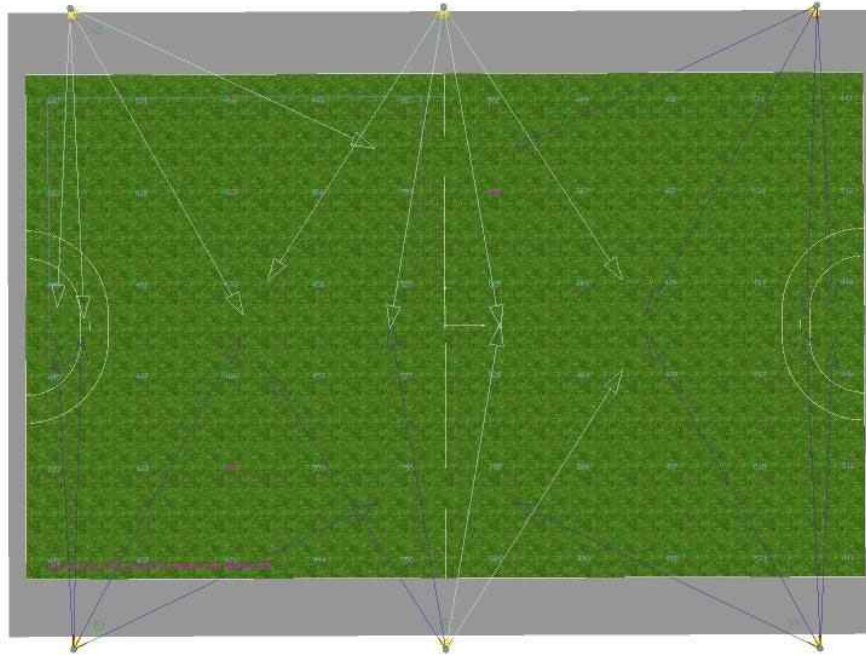
No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
41	GR Observer 41	-43.200	15.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
42	GR Observer 42	-33.600	15.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
43	GR Observer 43	-24.000	15.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
44	GR Observer 44	-14.400	15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
45	GR Observer 45	-4.800	15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
46	GR Observer 46	4.800	15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
47	GR Observer 47	14.400	15.000	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
48	GR Observer 48	24.000	15.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
49	GR Observer 49	33.600	15.000	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
50	GR Observer 50	43.200	15.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
51	GR Observer 51	-43.200	25.000	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
52	GR Observer 52	-33.600	25.000	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
53	GR Observer 53	-24.000	25.000	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
54	GR Observer 54	-14.400	25.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
55	GR Observer 55	-4.800	25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
56	GR Observer 56	4.800	25.000	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
57	GR Observer 57	14.400	25.000	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
58	GR Observer 58	24.000	25.000	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
59	GR Observer 59	33.600	25.000	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
60	GR Observer 60	43.200	25.000	1.500	0.0	360.0	15.0	-2.0	34 ²⁾

2) The calculated equivalent veil luminance of the environment is based on the assumption of a complete diffuse reflection behavior of the environment (acc. EN 12464-2).

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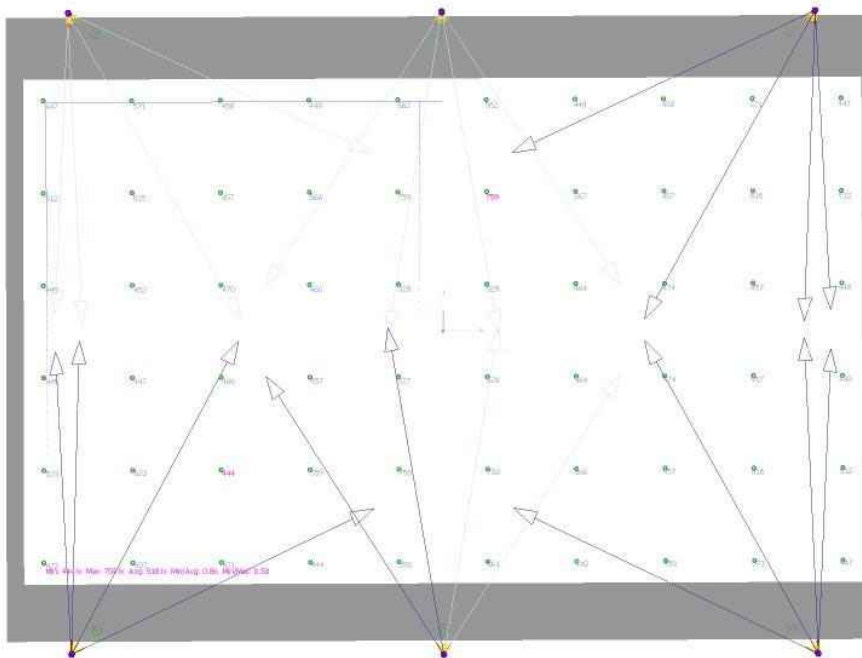
Dimming Full Pitch - 350 lux / Light scene 1 / 3D Rendering



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Dimming Full Pitch - 350 lux / Light scene 1 / False Color Rendering



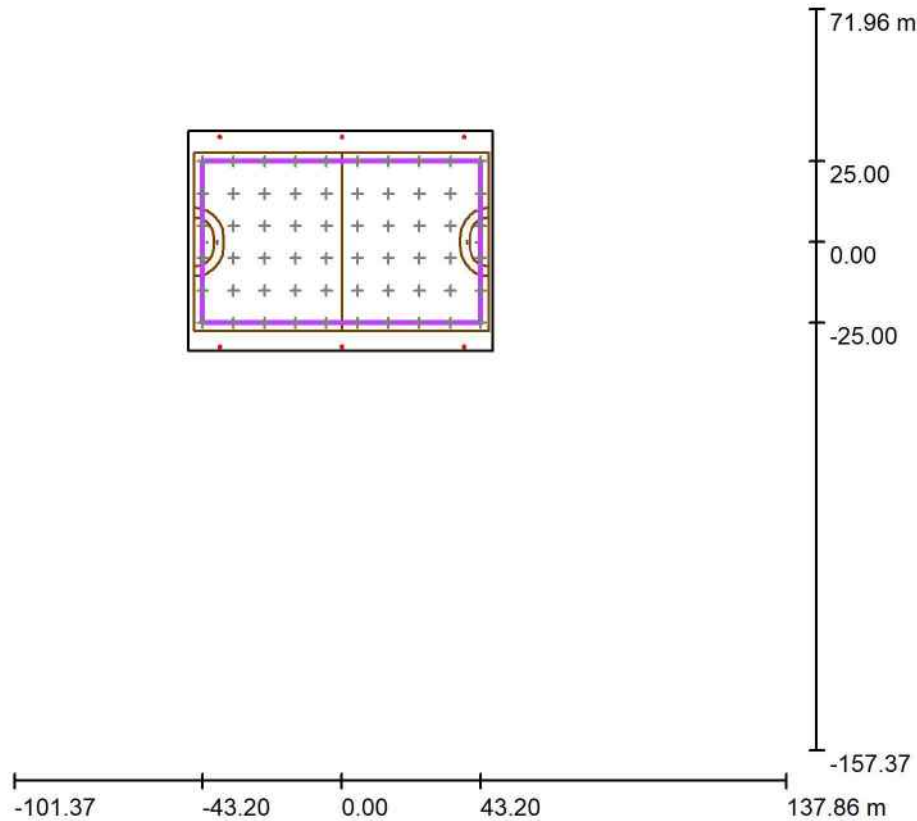
0 43.75 87.50 131.25 175 218.75 262.50 306.25 350

lx

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Dimming Full Pitch - 350 lux / Light scene 1 / Hockey Pitch Calculation Grid / Summary



Scale 1 : 2343

Position: (0.000 m, 0.000 m, 0.000 m)
 Size: (86.400 m, 50.000 m)
 Rotation: (0.0°, 0.0°, 0.0°)
 Type: Normal, Grid: 10 x 6 Points
 Belongs to the following sport arena: Hockey Pitch

Results overview

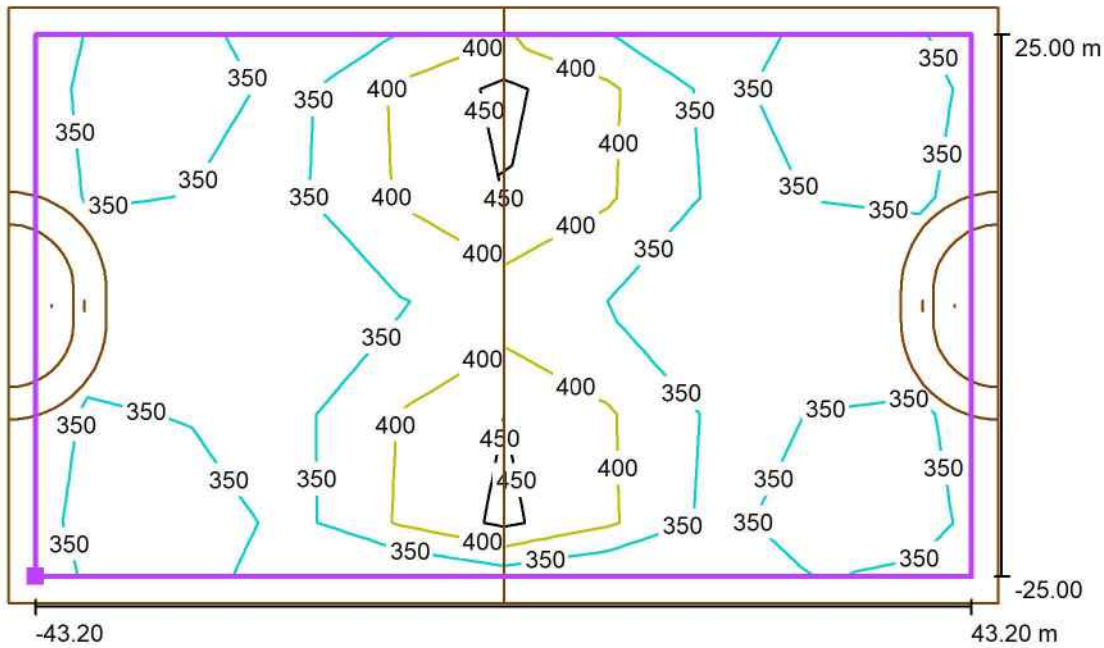
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	363	311	531	0.86	0.58	/	0.000	/

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

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Dimming Full Pitch - 350 lux / Light scene 1 / Hockey Pitch Calculation Grid / Isolines (E, Horizontal)



Values in Lux, Scale 1 : 698

Position of surface in external scene:
 Marked point: (-43.200 m, -25.000 m,
 0.000 m)



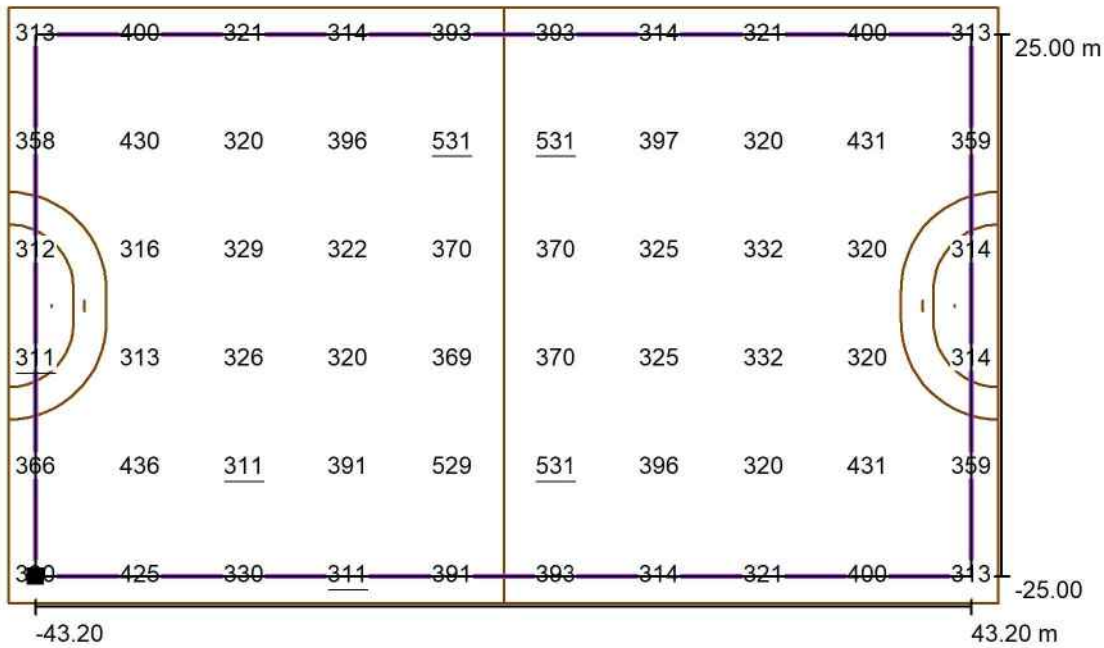
Grid: 10 x 6 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
363	311	531	0.86	0.58

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Dimming Full Pitch - 350 lux / Light scene 1 / Hockey Pitch Calculation Grid / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 698

Position of surface in external scene:
 Marked point: (-43.200 m, -25.000 m,
 0.000 m)



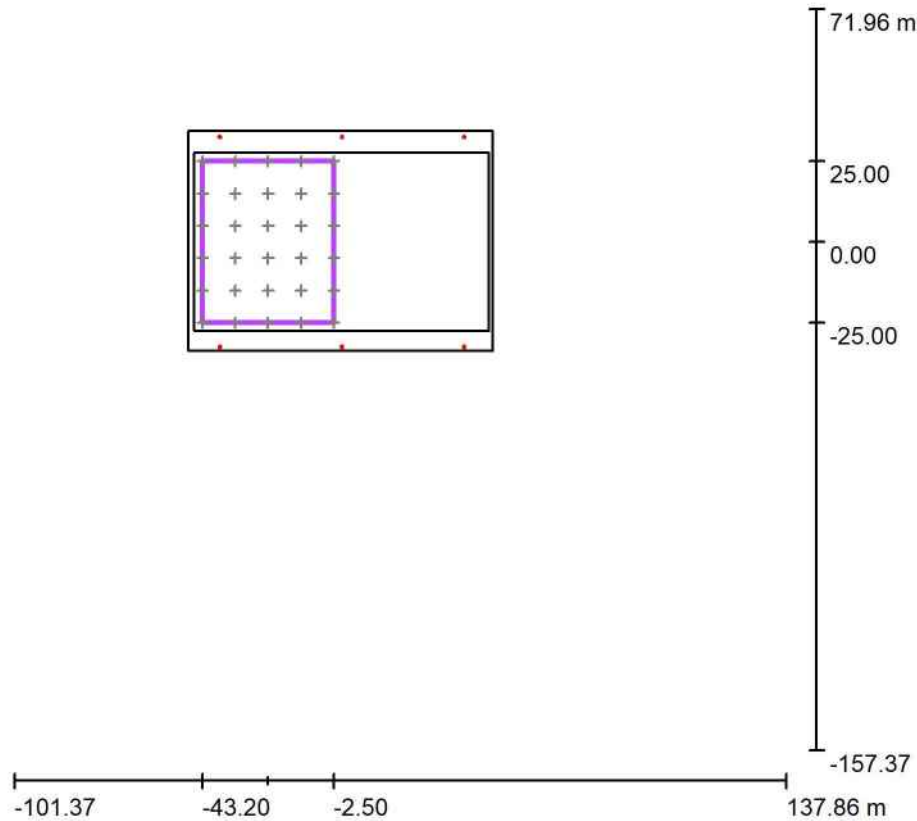
Grid: 10 x 6 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
363	311	531	0.86	0.58

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Dimming Full Pitch - 350 lux / Light scene 1 / Half Pitch 1 / Summary



Scale 1 : 2343

Position: (-22.850 m, 0.000 m, 0.000 m)
 Size: (40.700 m, 50.000 m)
 Rotation: (0.0°, 0.0°, 0.0°)
 Type: Normal, Grid: 5 x 6 Points

Results overview

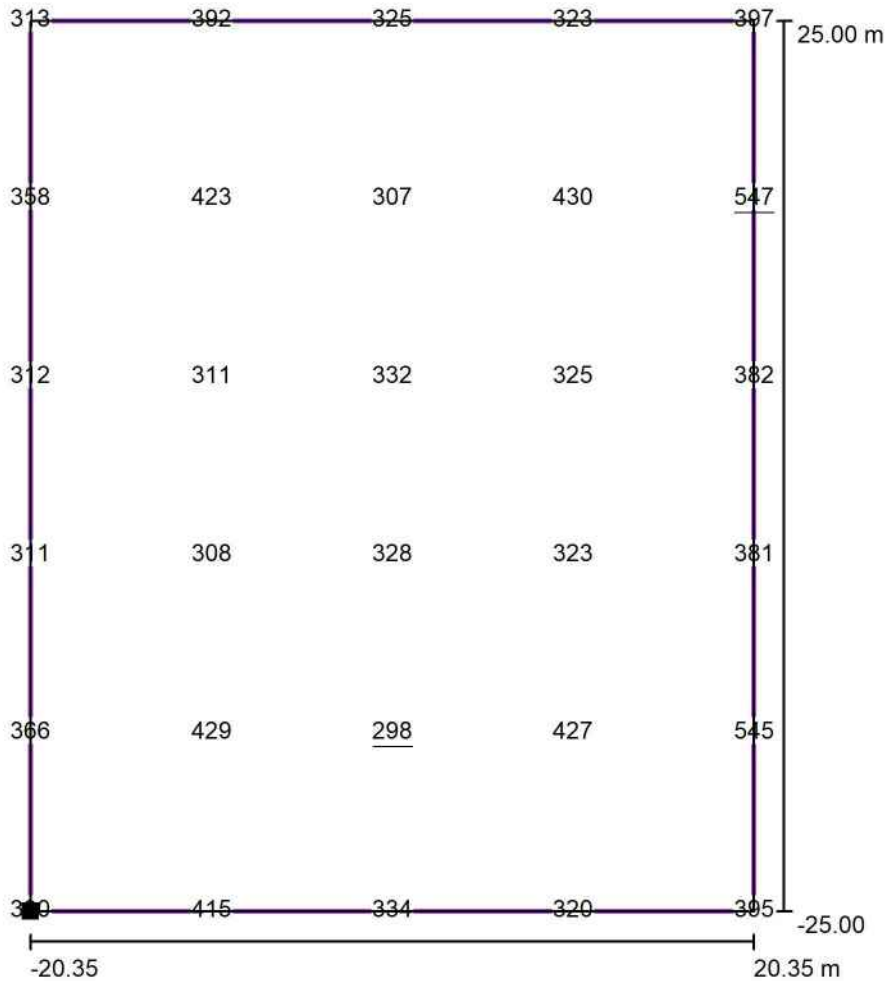
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	perpendicular	366	298	547	0.81	0.55	/	0.000	/
2	horizontal	366	298	547	0.81	0.55	/	0.000	/

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

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Dimming Full Pitch - 350 lux / Light scene 1 / Half Pitch 1 / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 425

Position of surface in external scene:
 Marked point: (-43.200 m, -25.000 m,
 0.000 m)



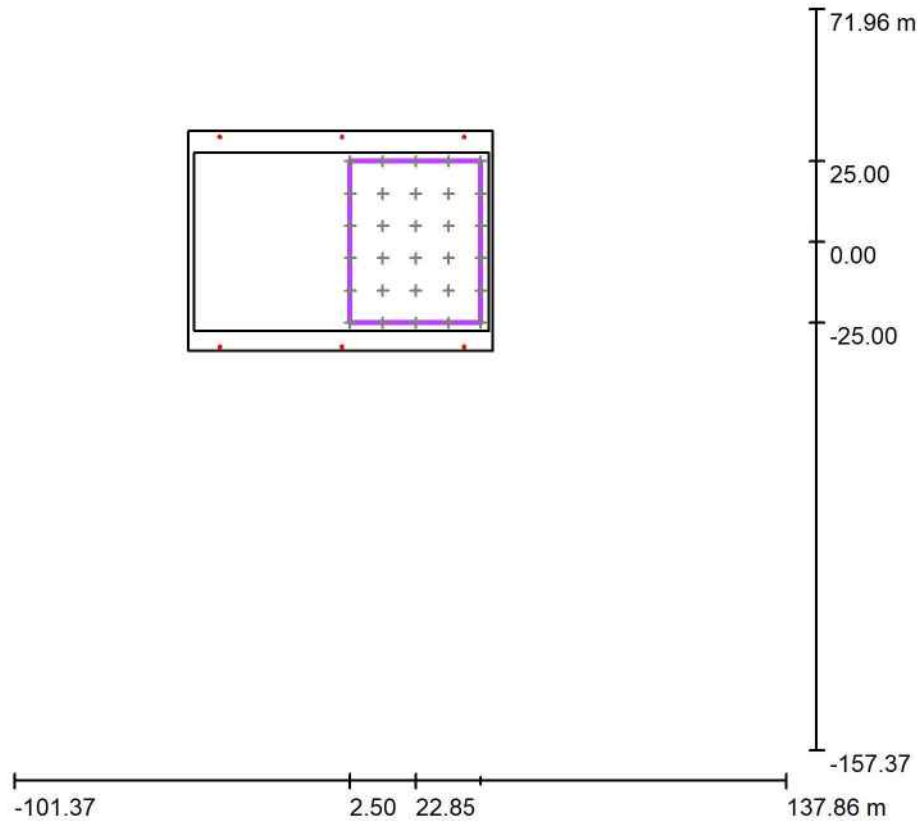
Grid: 5 x 6 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
366	298	547	0.81	0.55

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Dimming Full Pitch - 350 lux / Light scene 1 / Half Pitch 2 / Summary



Scale 1 : 2343

Position: (22.850 m, 0.000 m, 0.000 m)
 Size: (40.700 m, 50.000 m)
 Rotation: (0.0°, 0.0°, 0.0°)
 Type: Normal, Grid: 5 x 6 Points

Results overview

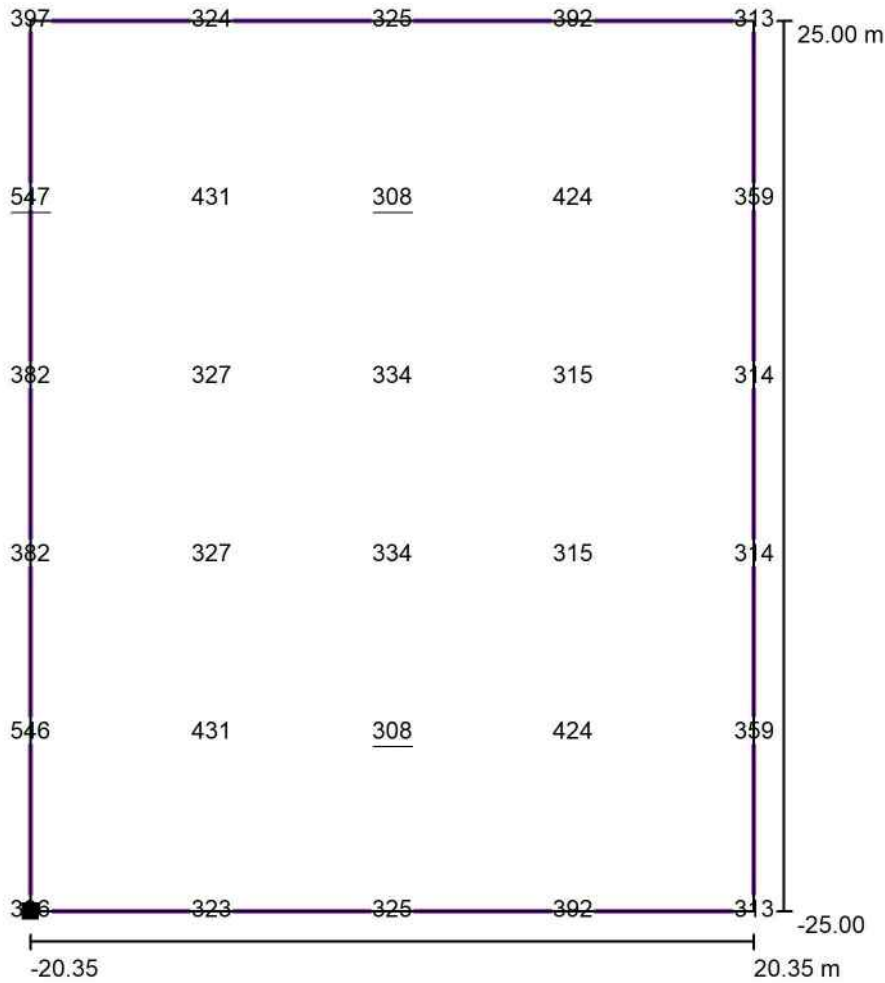
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}	$E_{h,m} / E_m$	H [m]	Camera
1	horizontal	366	308	547	0.84	0.56	/	0.000	/

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

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Dimming Full Pitch - 350 lux / Light scene 1 / Half Pitch 2 / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 425

Position of surface in external scene:
 Marked point: (2.500 m, -25.000 m,
 0.000 m)



Grid: 5 x 6 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
366	308	547	0.84	0.56

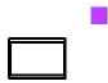
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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 1 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (105.514 m, 71.961 m,
 0.000 m)



1.000 3.39

0.000 3.52

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
3.45	3.39	3.52	0.98	0.96

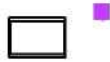
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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 2 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (109.320 m, 43.252 m,
 0.000 m)



1.000 4.90

0.000 5.09

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
4.99	4.90	5.09	0.98	0.96

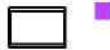
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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 3 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (111.607 m, 27.470 m,
 0.000 m)



1.000 5.48

0.000 5.68

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
5.58	5.48	5.68	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 4 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (112.554 m, 17.411 m,
 0.000 m)



1.000 5.61

0.000 5.81

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
5.71

E_{min} [lx]
5.61

E_{max} [lx]
5.81

u0
0.98

E_{min} / E_{max}
0.97

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 5 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (112.921 m, 4.824 m,
 0.000 m)



1.000 5.57

0.000 5.79

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
5.68

E_{min} [lx]
5.57

E_{max} [lx]
5.79

u0
0.98

E_{min} / E_{max}
0.96

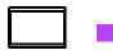
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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 6 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (114.805 m, -9.359 m,
 0.000 m)



1.000 4.92

0.000 5.12

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
5.02	4.92	5.12	0.98	0.96

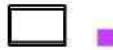
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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 7 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (115.660 m, -20.479 m, 0.000 m)



1.000 4.28
0.000 4.45
 m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
4.37	4.28	4.45	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 8 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (116.882 m, -32.699 m, 0.000 m)



1.000 3.45
0.000 3.61
 m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
3.53	3.45	3.61	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 9 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (120.096 m, -43.937 m,
 0.000 m)



1.000 2.70

0.000 2.81

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
2.76	2.70	2.81	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 10 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (122.381 m, -56.528 m,
 0.000 m)



1.000 2.19

0.000 2.27

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
2.23	2.19	2.27	0.98	0.96

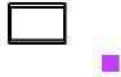
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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 11 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (124.128 m, -67.767 m,
 0.000 m)



1.000 1.82

0.000 1.89

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.85	1.82	1.89	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 12 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (127.356 m, -79.016 m,
 0.000 m)



1.000 1.53

0.000 1.59

m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.56	1.53	1.59	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 13 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (128.212 m, -88.548 m,
 0.000 m)



1.000 1.34

0.000 1.40

m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.37	1.34	1.40	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 14 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (129.958 m, -99.421 m, 0.000 m)



1.000 1.15
0.000 1.20
m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.17	1.15	1.20	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 15 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (131.965 m, -
 109.204 m, 0.000 m)



1.000 1.02
0.000 1.06
 m **3.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
1.04	1.02	1.06	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 16 / Table (E, Perpendicular)



Position of surface in external scene:

Marked point: (133.857 m, -
 122.247 m, 0.000 m)



1.000 0.92

0.000 0.95

m **9.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
0.94	0.92	0.95	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 17 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (137.862 m, -
 148.129 m, 0.000 m)



1.000 0.82

0.000 0.85

m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
0.83	0.82	0.85	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 18 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (127.153 m, -
 157.373 m, 1.000 m)



1.000 1.17
0.000 1.12
m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.15	1.12	1.17	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 19 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (118.099 m, -
 156.395 m, 1.000 m)



1.000 1.33

0.000 1.27

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.30	1.27	1.33	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 20 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (107.345 m, -
 155.662 m, 1.000 m)



1.000 1.56
0.000 1.49
m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.53	1.49	1.56	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 21 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (96.469 m, -155.051 m, 1.000 m)



1.000 1.82
0.000 1.74
 m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.78	1.74	1.82	0.98	0.95

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 22 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (84.104 m, -154.073 m, 1.000 m)



1.000 2.15

0.000 2.05

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
2.10

E_{min} [lx]
2.05

E_{max} [lx]
2.15

u0
0.98

E_{min} / E_{max}
0.95

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 23 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (73.995 m, -152.851 m,
 1.000 m)



1.000 2.54
0.000 2.41
m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
2.47	2.41	2.54	0.98	0.95

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 24 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (64.097 m, -152.118 m, 1.000 m)



1.000 2.87
0.000 2.73
m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
2.80	2.73	2.87	0.97	0.95

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 25 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (50.621 m, -151.141 m, 1.000 m)



1.000 3.32

0.000 3.15

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
3.24	3.15	3.32	0.97	0.95

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 26 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (38.401 m, -149.919 m,
 1.000 m)



1.000 3.72

0.000 3.53

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
3.62	3.53	3.72	0.97	0.95

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 27 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (24.714 m, -148.819 m, 1.000 m)



1.000 4.03

0.000 3.83

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.93

E_{min} [lx]
3.83

E_{max} [lx]
4.03

u0
0.97

E_{min} / E_{max}
0.95

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 28 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (3.996 m, -147.274 m,
 1.000 m)



1.000 4.15

0.000 3.97

m 8.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
4.06	3.97	4.15	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 29 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-9.729 m, -146.346 m,
 1.000 m)



1.000 4.26

0.000 4.08

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
4.17	4.08	4.26	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 30 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-19.295 m, -143.006 m,
 1.000 m)



1.000 4.30
0.000 4.11
m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
4.20	4.11	4.30	0.98	0.95

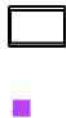
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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 31 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-25.649 m, -138.418 m, 1.000 m)



1.000 4.21
0.000 4.00
m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
4.10	4.00	4.21	0.98	0.95

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 32 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-32.537 m, -132.752 m,
 1.000 m)



1.000 4.72

0.000 4.48

m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
4.60	4.48	4.72	0.97	0.95

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 33 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-36.002 m, -118.095 m,
 1.000 m)



1.000 1.40

0.000 1.35

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.37	1.35	1.40	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 34 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-38.113 m, -98.543 m,
 1.000 m)



1.000 2.27

0.000 2.18

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
2.23

E_{min} [lx]
2.18

E_{max} [lx]
2.27

u0
0.98

E_{min} / E_{max}
0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 35 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-43.779 m, -72.992 m,
 1.000 m)



1.000 4.53

0.000 4.33

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
4.43

E_{min} [lx]
4.33

E_{max} [lx]
4.53

u0
0.98

E_{min} / E_{max}
0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 36 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-51.960 m, -51.388 m,
 1.000 m)



1.000 15

0.000 14

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
15	14	15	0.98	0.95

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 37 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-61.264 m, -29.524 m,
 1.000 m)



1.000 39

0.000 38

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
39

E_{min} [lx]
38

E_{max} [lx]
39

u0
0.99

E_{min} / E_{max}
0.98

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 38 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-71.091 m, -9.441 m,
 1.000 m)



1.000 35

0.000 33

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
34	33	35	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 39 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-78.714 m, 3.522 m,
 1.000 m)



1.000 24

0.000 23

m 6.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
23	23	24	0.98	0.95

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 40 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-88.370 m, 17.246 m,
 1.000 m)



1.000 13

0.000 12

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
13	12	13	0.99	0.97

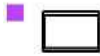
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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 41 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-93.814 m, 31.466 m,
 1.000 m)



1.000 8.00
0.000 7.73
m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
7.87	7.73	8.00	0.98	0.97

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 42 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-98.702 m, 43.908 m,
 1.000 m)



1.000 4.91

0.000 4.73

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
4.82	4.73	4.91	0.98	0.96

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Dimming Full Pitch - 350 lux / Light scene 1 / Spill Out - House 43 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-101.368 m, 54.906 m,
 1.000 m)



1.000 3.44

0.000 3.32

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.38

E_{min} [lx]
3.32

E_{max} [lx]
3.44

u0
0.98

E_{min} / E_{max}
0.96

ML2597 - Brookland Sport Centre - Tennis

MIDSTREAM LED PROPOSAL

REV02

16 x 8.5m Poles

Maintenance Factor: 0.9

Lighting Requirements:

PPA: Eav=500 Lux; Emin/Eav=0.7;

TPA: Eav=400 Lux; Emin/Eav=0.6

Calculated Values:

PPA: Eav=500+ Lux; Emin/Eav>0.7;

TPA: Eav=400+ Lux; Emin/Eav>0.6

1) Only RETROFIT ON

Total Floodlights: 16 x Modus S1100 WS (5000K)

Total Power Installed: 18.9 kW each

2) ALL ON:

Total Floodlights: 24 x Modus S1100 WS (5000K)

Total Power Installed: 28.32 kW

Date: 29.05.2024

Operator: MIDSTREAM LIGHTING LIMITED

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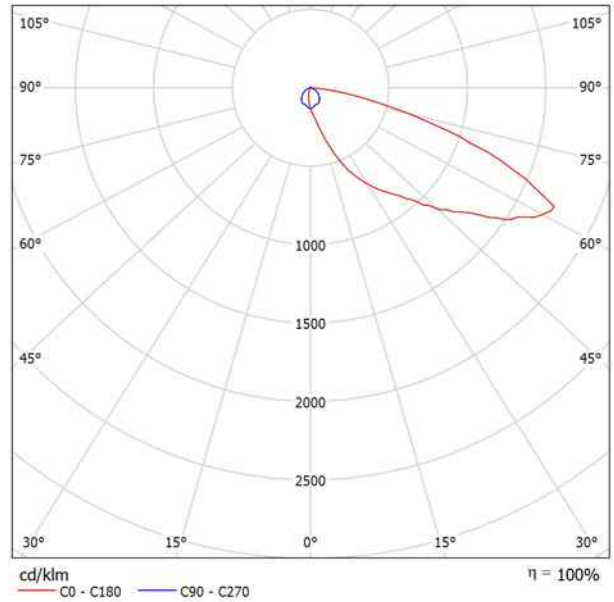
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MIDSTREAM - Modus S1100 WS (5000K) / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



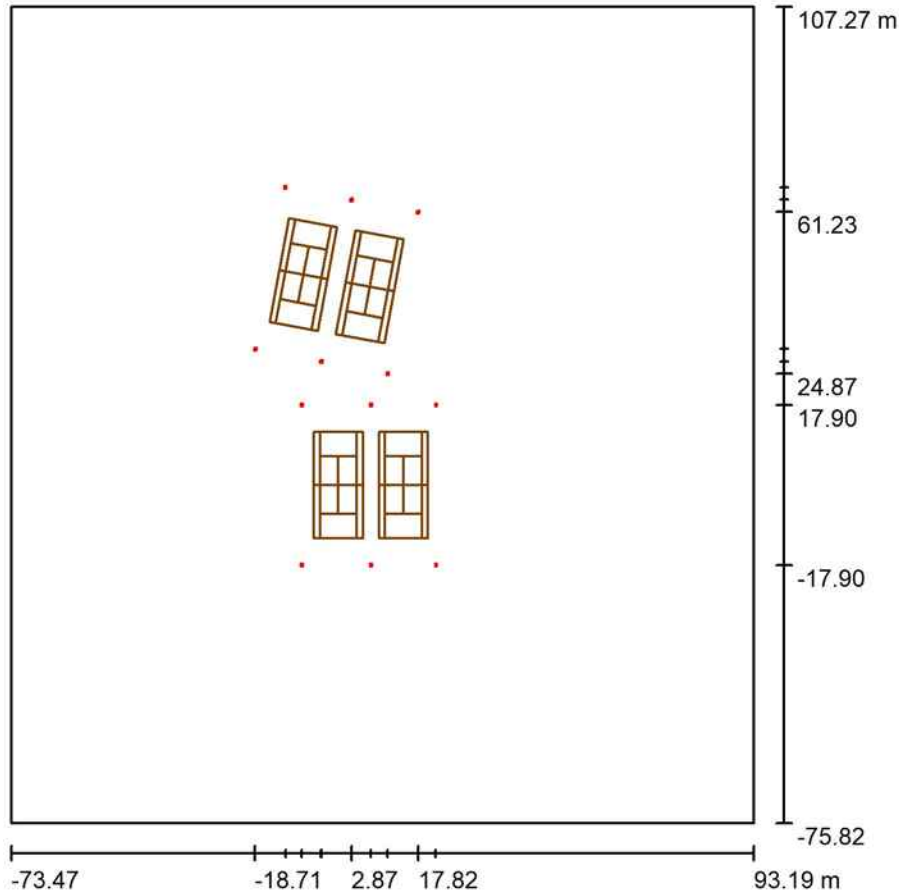
Luminaire classification according to CIE: 100
CIE flux code: 31 67 95 100 100

Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

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Only Retrofits ON / Planning data



Maintenance factor: 0.90, ULR (Upward Light Ratio): 0.5%

Scale 1:1697

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	16	MIDSTREAM - Modus S1100 WS (5000K) (1.000)	135501	135500	1180.0
Total:			2168014	Total: 2168000	18880.0

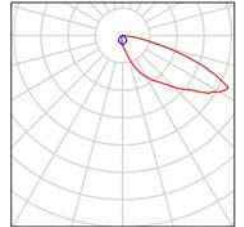
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Only Retrofits ON / Luminaire parts list

16 Pieces MIDSTREAM - Modus S1100 WS (5000K)
Article No.:
Luminous flux (Luminaire): 135501 lm
Luminous flux (Lamps): 135500 lm
Luminaire Wattage: 1180.0 W
Luminaire classification according to CIE: 100
CIE flux code: 31 67 95 100 100
Fitting: 1 x LED (Correction Factor 1.000).

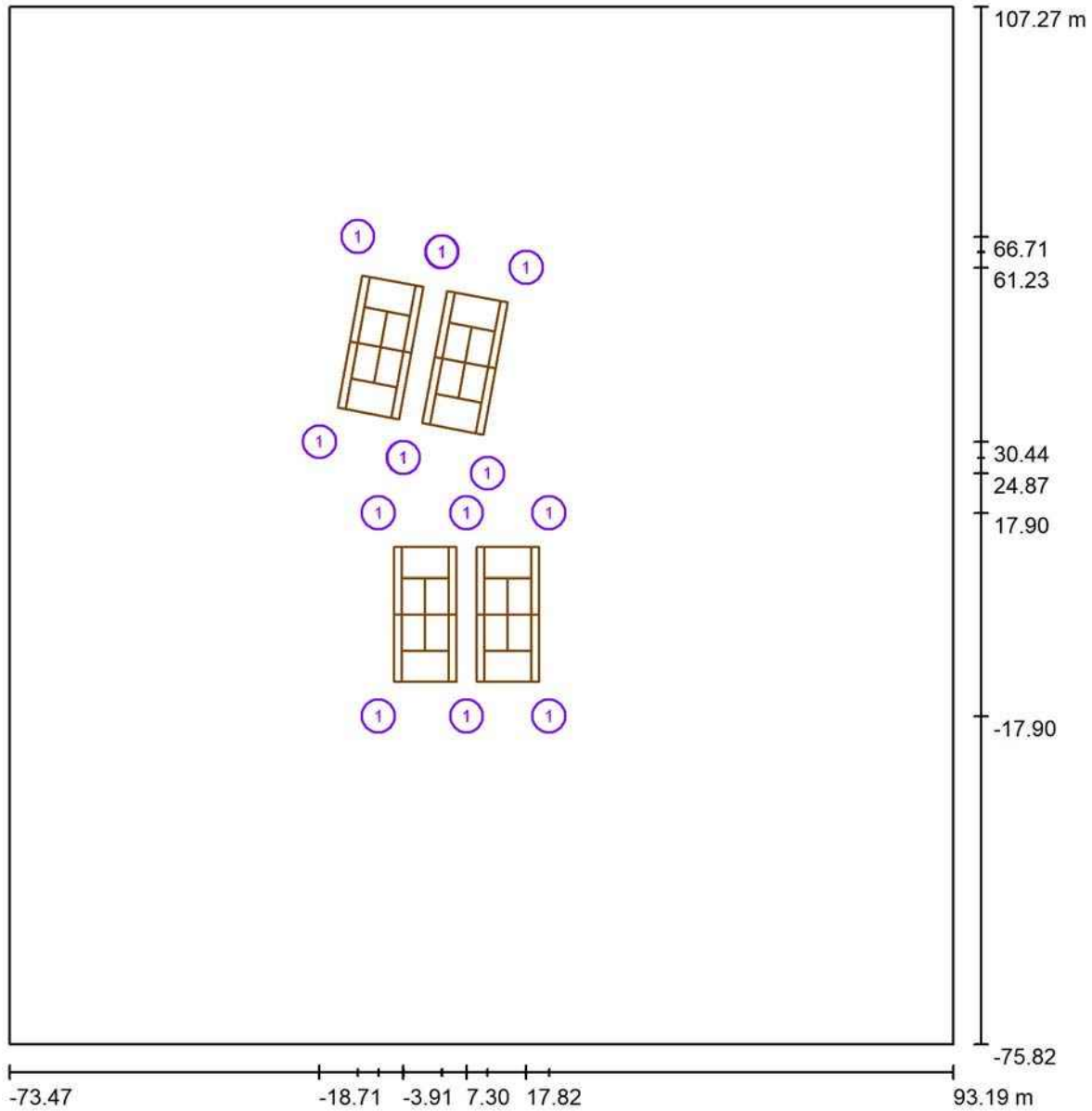
See our luminaire catalog
for an image of the
luminaire.



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Only Retrofits ON / Luminaires (layout plan)



Scale 1 : 1239

Luminaire Parts List

No.	Pieces	Designation
1	16	MIDSTREAM - Modus S1100 WS (5000K)

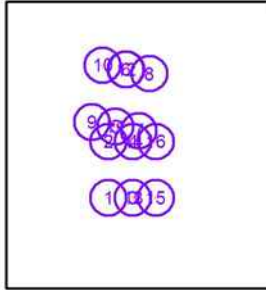
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Only Retrofits ON / Luminaires (coordinates list)

MIDSTREAM - Modus S1100 WS (5000K)

135501 lm, 1180.0 W, 1 x 1 x LED (Correction Factor 1.000).

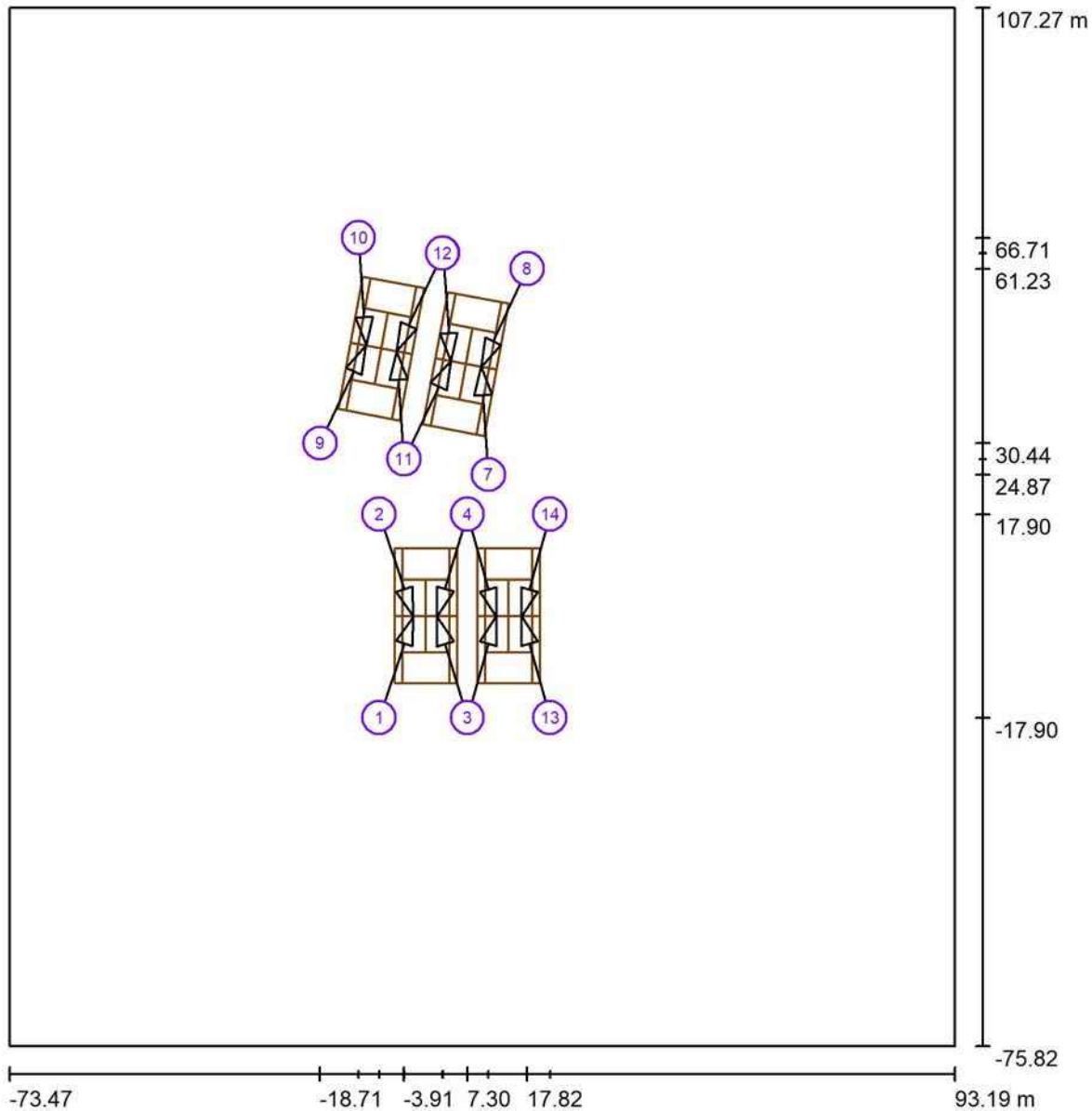


No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	-8.300	-17.900	8.500	0.0	-1.7	71.4
2	-8.300	17.901	8.500	0.0	-1.7	-71.4
3	7.300	-17.900	8.500	0.0	-1.5	106.8
4	7.300	17.901	8.500	0.0	-1.5	-106.8
5	-3.823	27.645	8.500	0.0	-2.1	64.7
6	2.981	64.004	8.500	0.0	-2.1	-85.9
7	11.015	24.868	8.500	0.0	-2.1	94.1
8	17.819	61.227	8.500	0.0	-2.1	-115.3
9	-18.712	30.439	8.500	0.0	-1.9	64.8
10	-11.924	66.708	8.500	0.0	-1.9	-86.0
11	-3.914	27.670	8.500	0.0	-1.9	94.0
12	2.874	63.939	8.500	0.0	-1.9	-115.2
13	7.300	-17.900	8.500	0.0	-1.4	74.5
14	7.300	17.901	8.500	0.0	-1.4	-74.5
15	21.840	-17.900	8.500	0.0	-1.4	105.5
16	21.840	17.901	8.500	0.0	-1.4	-105.5

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Only Retrofits ON / Sport Luminaires (Coordinates List)



Scale 1 : 1239

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
MIDSTREAM - Modus S1100 WS (5000K)	1	-8.300	-17.900	8.500	-2.292	-0.044	0.000	24.3	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	2	-8.300	17.901	8.500	-2.292	0.045	0.000	24.3	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	3	7.300	-17.900	8.500	1.898	-0.047	0.000	24.5	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	4	7.300	17.901	8.500	1.898	0.048	0.000	24.5	(C IMax, G IMax)	/

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Only Retrofits ON / Sport Luminaires (Coordinates List)

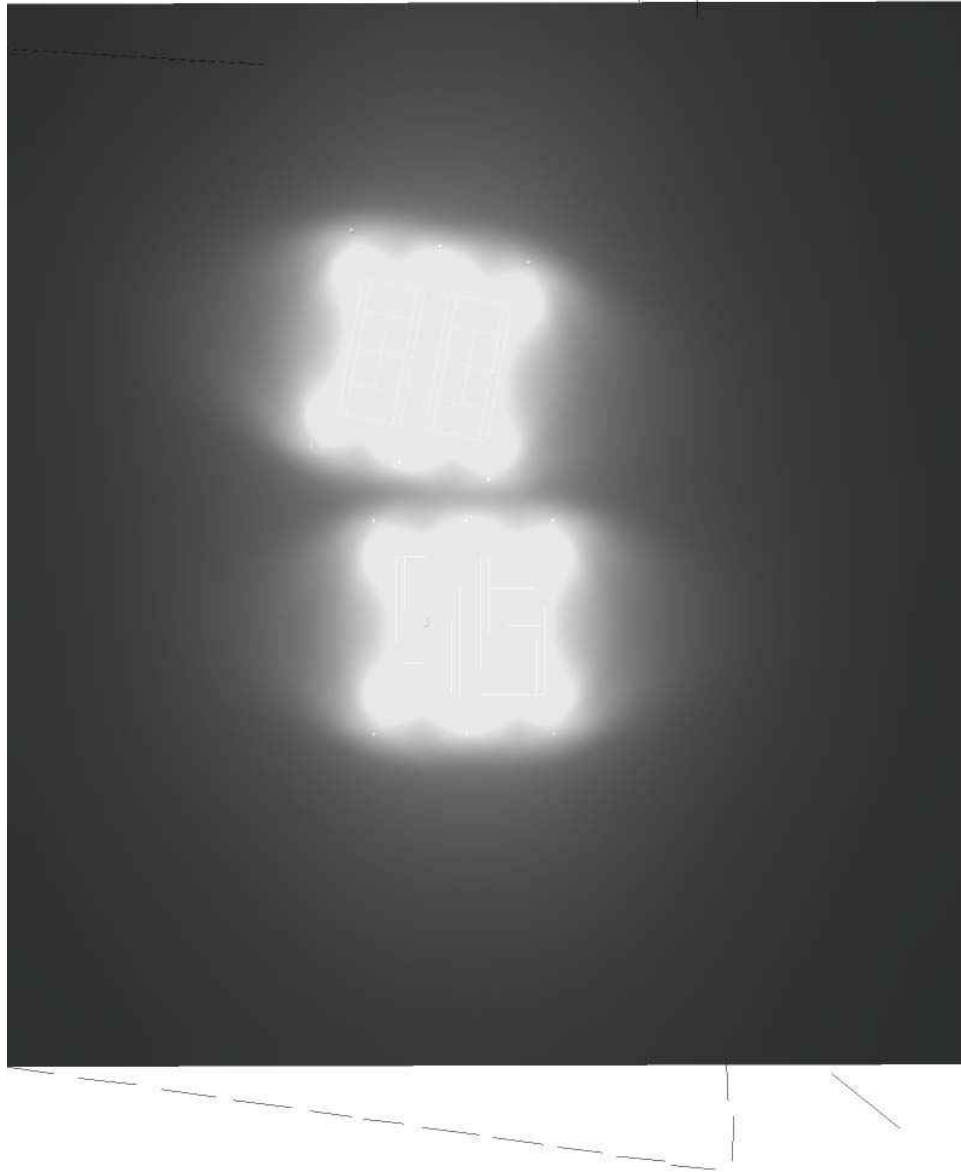
List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
MIDSTREAM - Modus S1100 WS (5000K)	5	-3.823	27.645	8.500	4.353	44.968	0.000	23.9	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	6	2.981	64.004	8.500	4.340	44.897	0.000	23.9	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	7	11.015	24.868	8.500	9.656	43.975	0.000	23.9	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	8	17.819	61.227	8.500	9.643	43.904	0.000	23.9	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	9	-18.712	30.439	8.500	-10.609	47.657	0.000	24.1	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	10	-11.924	66.708	8.500	-10.596	47.725	0.000	24.1	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	11	-3.914	27.670	8.500	-5.242	46.653	0.000	24.1	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	12	2.874	63.939	8.500	-5.229	46.721	0.000	24.1	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	3	7.300	-17.900	8.500	12.271	0.022	0.000	24.6	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	4	7.300	17.901	8.500	12.271	-0.021	0.000	24.6	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	13	21.840	-17.900	8.500	16.869	0.022	0.000	24.6	(C IMax, G IMax)	/
MIDSTREAM - Modus S1100 WS (5000K)	14	21.840	17.901	8.500	16.869	-0.021	0.000	24.6	(C IMax, G IMax)	/

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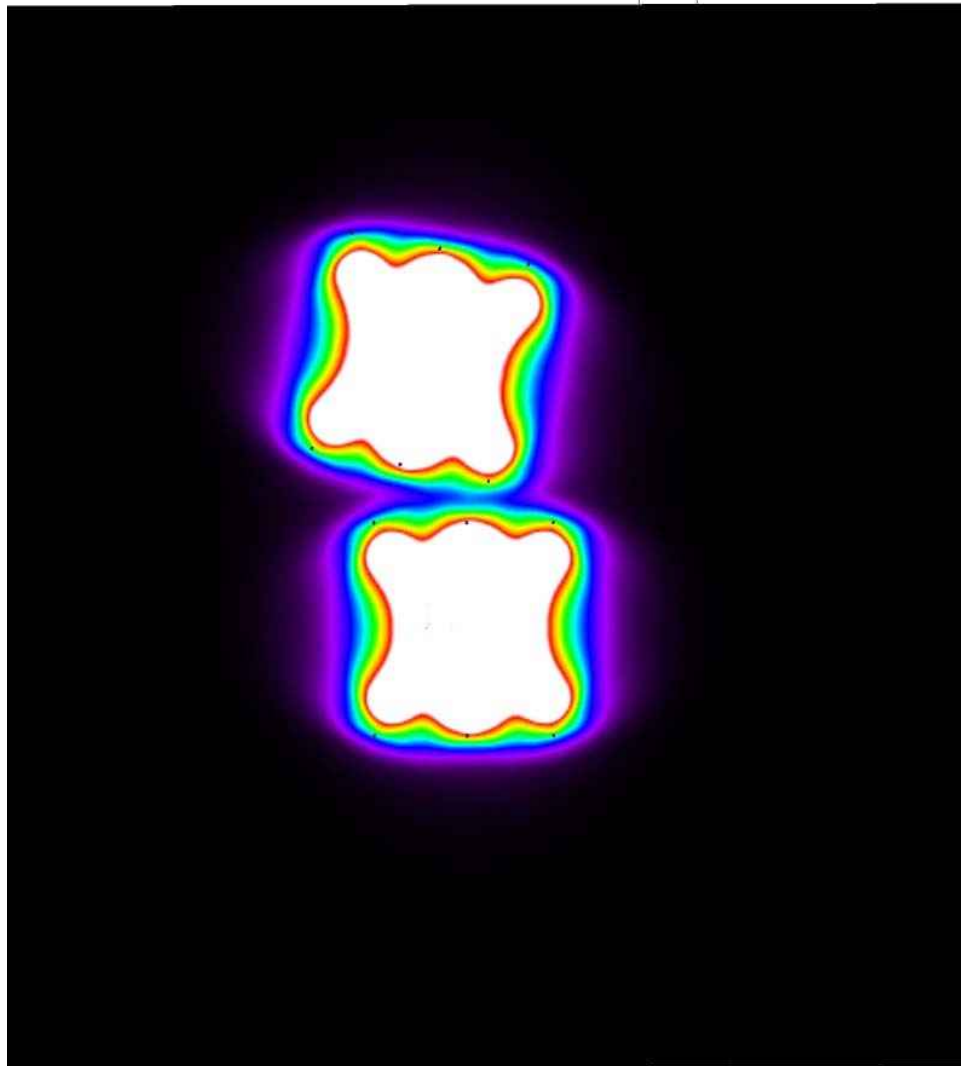
Only Retrofits ON / 3D Rendering



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Only Retrofits ON / False Colour Rendering



3.01

58.88

114.76

170.63

226.50

282.38

338.25

394.13

450

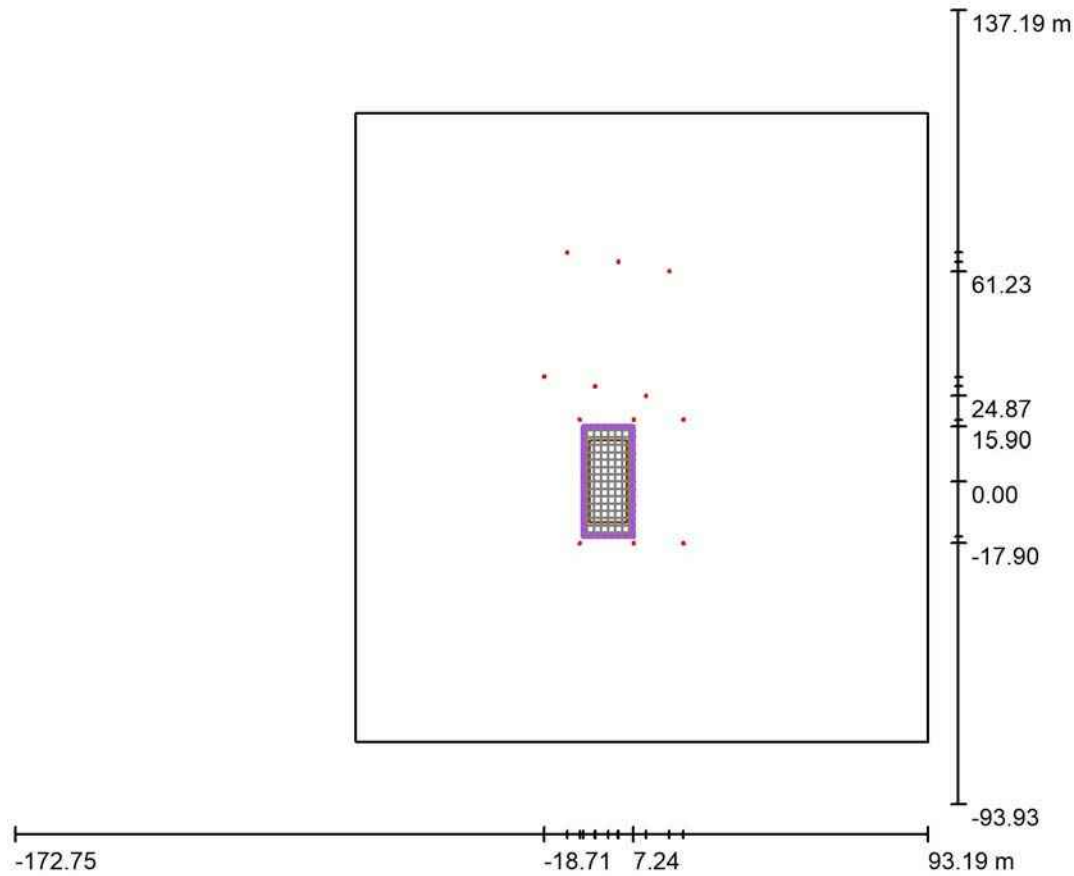
lx



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Only Retrofits ON / Tennis 1 Calculation Grid (TPA) / Summary



Scale 1 : 2204

Position: (-0.010 m, 0.000 m, 0.000 m)
 Size: (31.800 m, 14.500 m)
 Rotation: (0.0°, 0.0°, 90.0°)
 Type: Normal, Grid: 15 x 7 Points
 Belongs to the following sport arena: Tennis 1

Results overview

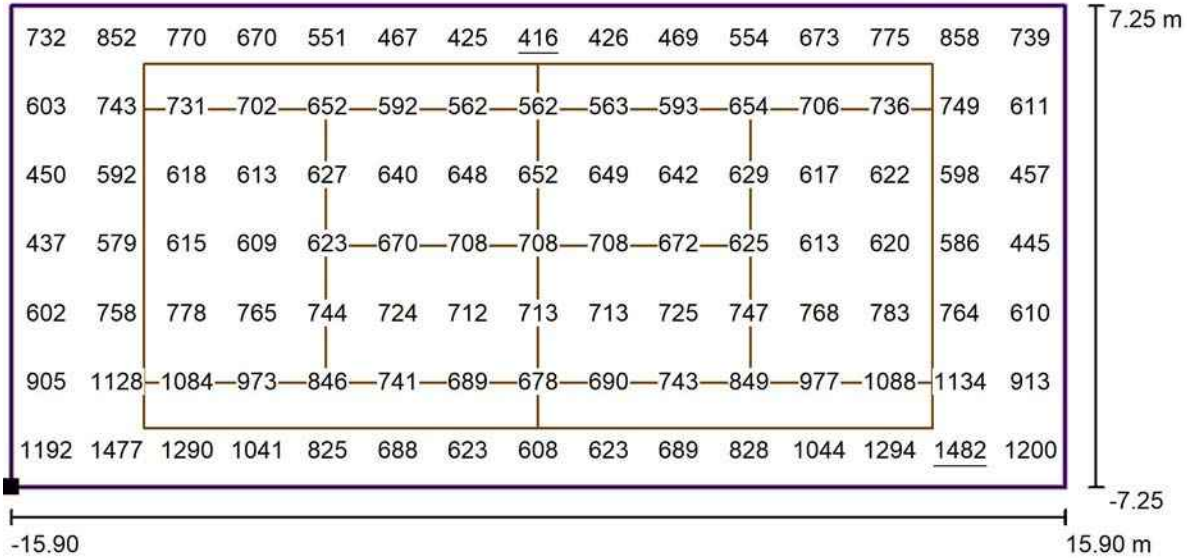
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	730	416	1482	0.57	0.28	/	0.000	/

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

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Only Retrofits ON / Tennis 1 Calculation Grid (TPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 228

Position of surface in external scene:
 Marked point: (7.240 m, -15.900 m,
 0.000 m)



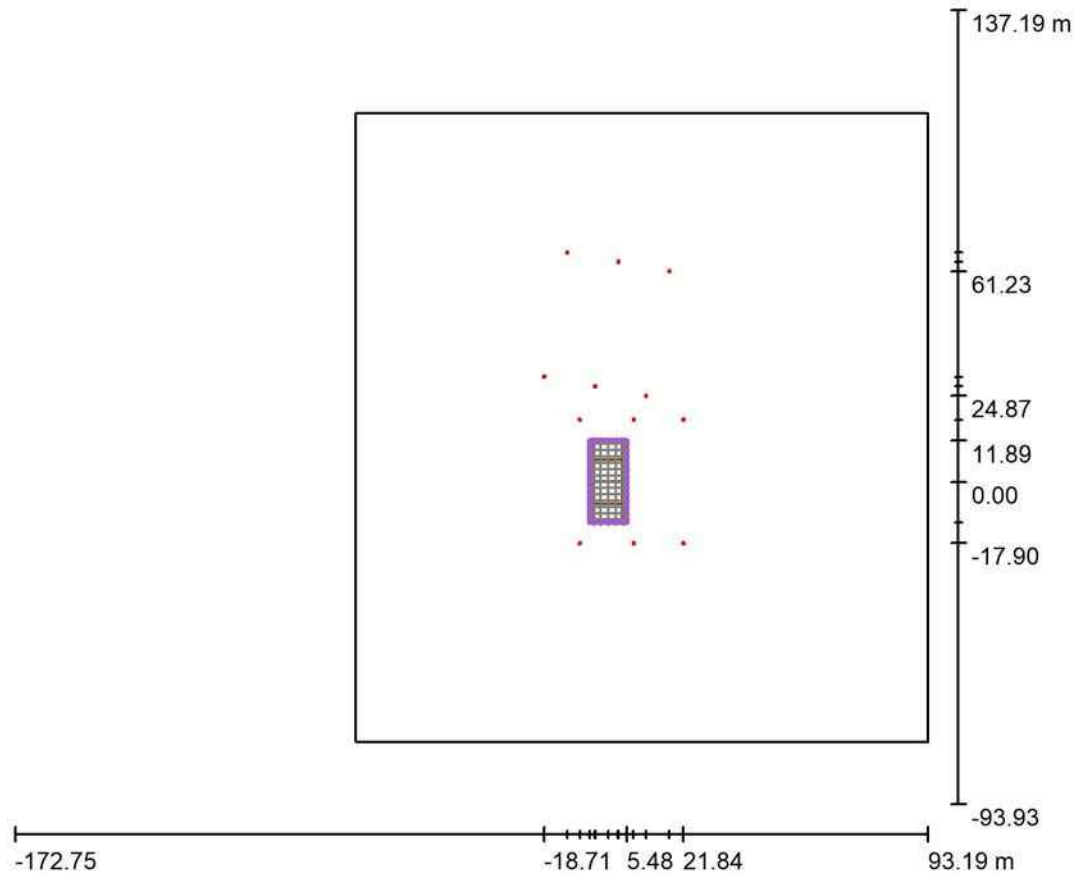
Grid: 15 x 7 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
730	416	1482	0.57	0.28

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Only Retrofits ON / Tennis 1 Calculation Grid (PPA) / Summary



Scale 1 : 2204

Position: (0.000 m, 0.000 m, 0.000 m)
 Size: (23.780 m, 10.970 m)
 Rotation: (0.0°, 0.0°, 90.0°)
 Type: Normal, Grid: 13 x 5 Points
 Belongs to the following sport arena: Tennis 1

Results overview

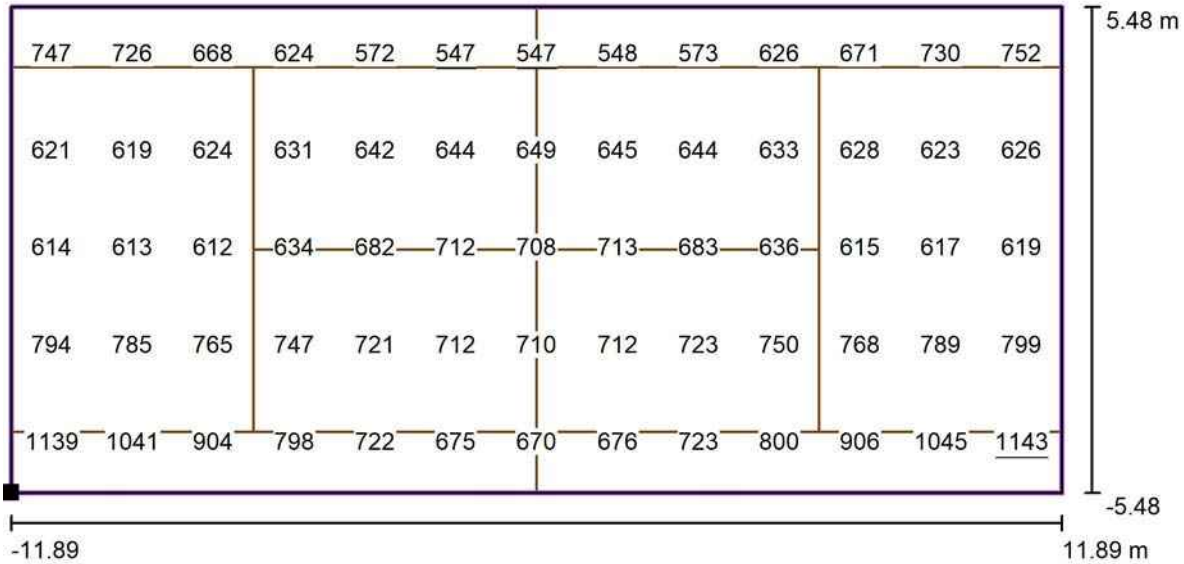
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	708	547	1143	0.77	0.48	/	0.000	/

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

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Only Retrofits ON / Tennis 1 Calculation Grid (PPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 171

Position of surface in external scene:
 Marked point: (5.485 m, -11.890 m,
 0.000 m)



Grid: 13 x 5 Points

E_{av} [lx]
708

E_{min} [lx]
547

E_{max} [lx]
1143

u_0
0.77

E_{min} / E_{max}
0.48

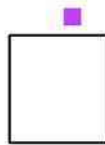
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Only Retrofits ON / Spill Out - House 1 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (34.061 m, 137.195 m,
 0.000 m)



1.000 1.09

0.000 1.27

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
1.18

E_{min} [lx]
1.09

E_{max} [lx]
1.27

$u0$
0.93

E_{min} / E_{max}
0.86

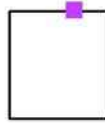
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Only Retrofits ON / Spill Out - House 2 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (36.721 m, 108.534 m,
 0.000 m)



1.000 3.15

0.000 3.43

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.29

E_{min} [lx]
3.15

E_{max} [lx]
3.43

$u0$
0.96

E_{min} / E_{max}
0.92

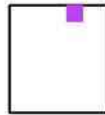
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Only Retrofits ON / Spill Out - House 3 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (37.913 m, 92.603 m,
 0.000 m)



1.000 5.49

0.000 5.95

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
5.72

E_{min} [lx]
5.49

E_{max} [lx]
5.95

u_0
0.96

E_{min} / E_{max}
0.92

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Only Retrofits ON / Spill Out - House 4 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (38.283 m, 82.245 m,
 0.000 m)



1.000 8.16

0.000 8.37

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
8.26

E_{min} [lx]
8.16

E_{max} [lx]
8.37

u_0
0.99

E_{min} / E_{max}
0.97

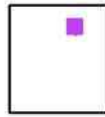
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Only Retrofits ON / Spill Out - House 5 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (37.686 m, 69.706 m,
 0.000 m)



1.000 13
0.000 13
 m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
13	13	13	0.99	0.98

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Only Retrofits ON / Spill Out - House 6 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (38.898 m, 55.448 m,
 0.000 m)



1.000 20

0.000 20

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
20	20	20	0.99	0.98

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Only Retrofits ON / Spill Out - House 7 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (38.898 m, 44.103 m,
 0.000 m)



1.000 23

0.000 23

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
23	23	23	0.98	0.97

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Only Retrofits ON / Spill Out - House 8 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (39.495 m, 31.565 m,
 0.000 m)



1.000 20

0.000 19

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
20

E_{min} [lx]
19

E_{max} [lx]
20

u_0
0.98

E_{min} / E_{max}
0.95

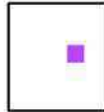
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Only Retrofits ON / Spill Out - House 9 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (41.592 m, 20.240 m,
 0.000 m)



1.000 22

0.000 20

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
21	20	22	0.96	0.92

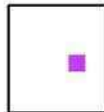
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Only Retrofits ON / Spill Out - House 10 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (43.316 m, 7.562 m,
 0.000 m)



1.000 26

0.000 25

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
25	25	26	0.98	0.95

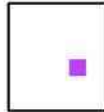
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Only Retrofits ON / Spill Out - House 11 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (44.417 m, -3.158 m,
 0.000 m)



1.000 21

0.000 20

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
20	20	21	0.98	0.97

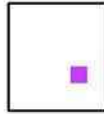
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Only Retrofits ON / Spill Out - House 12 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (46.352 m, -15.281 m,
 0.000 m)



1.000 9.37

0.000 8.86

m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
9.12

E_{min} [lx]
8.86

E_{max} [lx]
9.37

u0
0.97

E_{min} / E_{max}
0.95

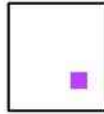
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Only Retrofits ON / Spill Out - House 13 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (47.070 m, -25.177 m,
 0.000 m)



1.000 5.61

0.000 5.41

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
5.51	5.41	5.61	0.98	0.96

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Only Retrofits ON / Spill Out - House 14 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (48.212 m, -35.069 m,
 0.000 m)



1.000 3.29

0.000 3.30

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.30

E_{min} [lx]
3.29

E_{max} [lx]
3.30

u_0
1.00

E_{min} / E_{max}
1.00

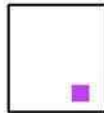
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Only Retrofits ON / Spill Out - House 15 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (49.630 m, -45.019 m,
 0.000 m)



1.000 2.29

0.000 2.31

m **3.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
2.30	2.29	2.31	0.99	0.99

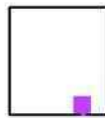
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Only Retrofits ON / Spill Out - House 16 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (50.533 m, -59.881 m,
 0.000 m)



1.000 1.32

0.000 1.42

m 7.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.37	1.32	1.42	0.97	0.93

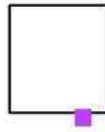
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Only Retrofits ON / Spill Out - House 17 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (52.332 m, -85.105 m,
 0.000 m)



1.000 0.68

0.000 0.81

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.74

E_{min} [lx]
0.68

E_{max} [lx]
0.81

u0
0.91

E_{min} / E_{max}
0.83

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Only Retrofits ON / Spill Out - House 18 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (41.800 m, -93.315 m,
 1.000 m)



1.000 2.05

0.000 1.70

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1.88	1.70	2.05	0.91	0.83

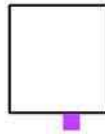
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Only Retrofits ON / Spill Out - House 19 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (32.340 m, -91.908 m,
 1.000 m)



1.000 2.62

0.000 2.17

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
2.40	2.17	2.62	0.91	0.83

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Only Retrofits ON / Spill Out - House 20 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (22.195 m, -90.405 m,
 1.000 m)



1.000 3.28

0.000 2.72

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.00

E_{min} [lx]
2.72

E_{max} [lx]
3.28

u_0
0.91

E_{min} / E_{max}
0.83

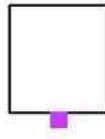
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Only Retrofits ON / Spill Out - House 21 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (11.209 m, -88.495 m,
 1.000 m)



1.000 3.94

0.000 3.24

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.59

E_{min} [lx]
3.24

E_{max} [lx]
3.94

$u0$
0.90

E_{min} / E_{max}
0.82

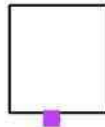
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Only Retrofits ON / Spill Out - House 22 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-1.251 m, -86.736 m,
 1.000 m)



1.000 4.31

0.000 3.58

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.95

E_{min} [lx]
3.58

E_{max} [lx]
4.31

$u0$
0.91

E_{min} / E_{max}
0.83

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Only Retrofits ON / Spill Out - House 23 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-11.460 m, -84.956 m,
 1.000 m)



1.000 4.30

0.000 3.60

m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.95

E_{min} [lx]
3.60

E_{max} [lx]
4.30

u_0
0.91

E_{min} / E_{max}
0.84

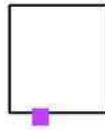
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Only Retrofits ON / Spill Out - House 24 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-20.416 m, -83.762 m,
 1.000 m)



1.000 4.07

0.000 3.41

m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.74

E_{min} [lx]
3.41

E_{max} [lx]
4.07

u0
0.91

E_{min} / E_{max}
0.84

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Only Retrofits ON / Spill Out - House 25 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-33.732 m, -81.720 m,
 1.000 m)



1.000 3.36

0.000 2.85

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
3.11

E_{min} [lx]
2.85

E_{max} [lx]
3.36

$u0$
0.92

E_{min} / E_{max}
0.85

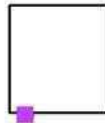
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Only Retrofits ON / Spill Out - House 26 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-46.390 m, -79.929 m,
 1.000 m)



1.000 2.55

0.000 2.21

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
2.38

E_{min} [lx]
2.21

E_{max} [lx]
2.55

$u0$
0.93

E_{min} / E_{max}
0.87

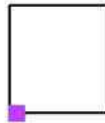
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Only Retrofits ON / Spill Out - House 27 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-60.720 m, -78.018 m,
 1.000 m)



1.000 1.80
0.000 1.63
 m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.72	1.63	1.80	0.95	0.91

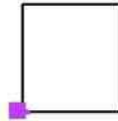
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Only Retrofits ON / Spill Out - House 28 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-81.388 m, -74.939 m,
 1.000 m)



1.000 1.20
0.000 1.13
 m **8.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.16	1.13	1.20	0.97	0.94

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Only Retrofits ON / Spill Out - House 29 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-94.733 m, -72.808 m,
 1.000 m)



1.000 0.74

0.000 0.70

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.72	0.70	0.74	0.97	0.94

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Only Retrofits ON / Spill Out - House 30 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-103.573 m, -69.333 m,
 1.000 m)



1.000 0.68

0.000 0.64

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.66

E_{min} [lx]
0.64

E_{max} [lx]
0.68

u0
0.97

E_{min} / E_{max}
0.95

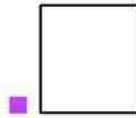
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Only Retrofits ON / Spill Out - House 31 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-110.486 m, -63.666 m,
 1.000 m)



1.000 0.60

0.000 0.57

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.59

E_{min} [lx]
0.57

E_{max} [lx]
0.60

u0
0.98

E_{min} / E_{max}
0.96

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Only Retrofits ON / Spill Out - House 32 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-116.576 m, -58.292 m,
 1.000 m)



1.000 0.52

0.000 0.50

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.51

E_{min} [lx]
0.50

E_{max} [lx]
0.52

u0
0.98

E_{min} / E_{max}
0.97

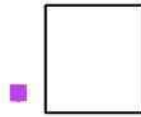
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Only Retrofits ON / Spill Out - House 33 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-118.474 m, -43.022 m,
 1.000 m)



1.000 0.36

0.000 0.36

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.36	0.36	0.36	0.99	0.99

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Only Retrofits ON / Spill Out - House 34 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-119.430 m, -23.558 m,
 1.000 m)



1.000 0.41

0.000 0.41

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.41

E_{min} [lx]
0.41

E_{max} [lx]
0.41

$u0$
1.00

E_{min} / E_{max}
0.99

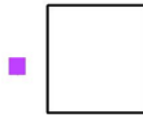
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Only Retrofits ON / Spill Out - House 35 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-124.229 m, 2.372 m,
 1.000 m)



1.000 0.40

0.000 0.41

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.40	0.40	0.41	0.99	0.98

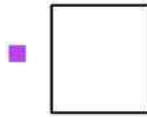
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Only Retrofits ON / Spill Out - House 36 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-130.952 m, 24.058 m,
 1.000 m)



1.000 0.32

0.000 0.34

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.33

E_{min} [lx]
0.32

E_{max} [lx]
0.34

$u0$
0.98

E_{min} / E_{max}
0.96

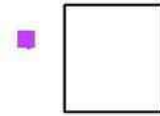
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Only Retrofits ON / Spill Out - House 37 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-138.256 m, 47.354 m,
 1.000 m)



1.000 0.24

0.000 0.25

m **6.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.25

E_{min} [lx]
0.24

E_{max} [lx]
0.25

u0
0.97

E_{min} / E_{max}
0.94

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Only Retrofits ON / Spill Out - House 38 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-146.347 m, 67.639 m,
 1.000 m)



1.000 0.17

0.000 0.19

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
0.18	0.17	0.19	0.96	0.92

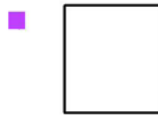
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Only Retrofits ON / Spill Out - House 39 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-153.651 m, 80.547 m,
 1.000 m)



1.000 0.14
0.000 0.15
m 5.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.14	0.14	0.15	0.96	0.92

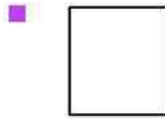
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Only Retrofits ON / Spill Out - House 40 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-161.880 m, 95.588 m,
 1.000 m)



1.000 0.10

0.000 0.11

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.11	0.10	0.11	0.96	0.93

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Only Retrofits ON / Spill Out - House 41 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-166.409 m,
 109.315 m, 1.000 m)



1.000 0.08

0.000 0.09

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.09	0.08	0.09	0.95	0.91

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Only Retrofits ON / Spill Out - House 42 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-170.956 m,
 121.501 m, 1.000 m)



1.000 0.07
0.000 0.08
m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.07	0.07	0.08	0.95	0.91

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Only Retrofits ON / Spill Out - House 43 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-172.747 m,
 133.801 m, 1.000 m)



1.000 0.06
0.000 0.07
 m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

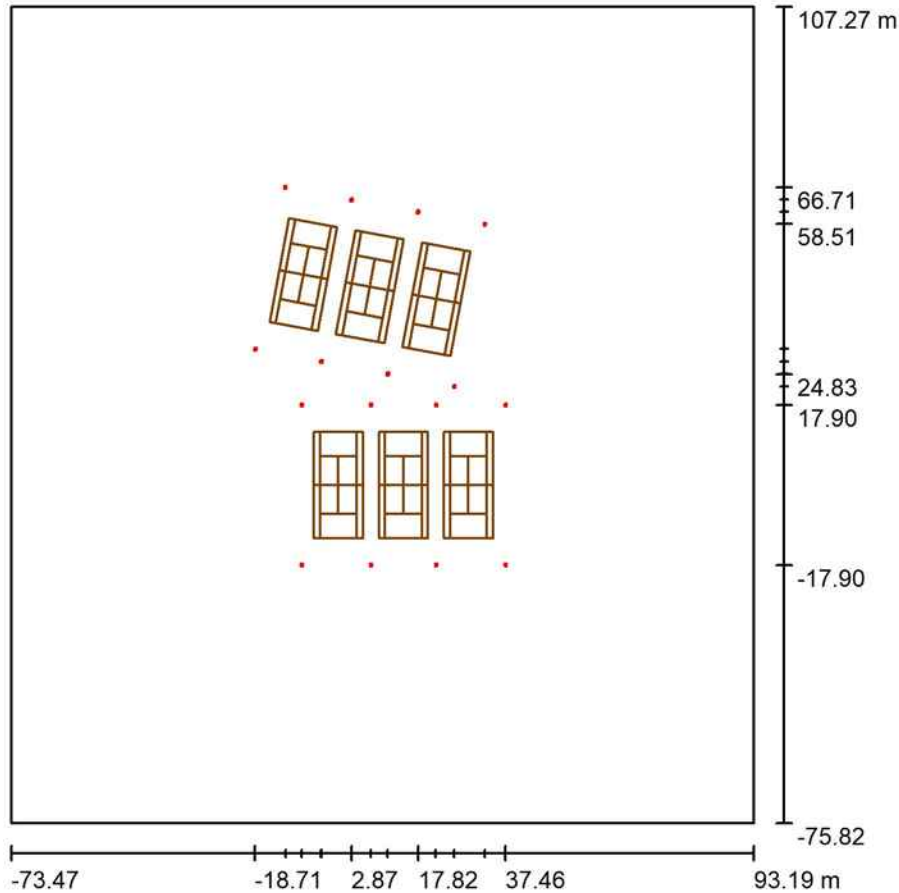
Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.07	0.06	0.07	0.96	0.92

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ALL ON / Planning data



Maintenance factor: 0.90, ULR (Upward Light Ratio): 0.5%

Scale 1:1697

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	24	MIDSTREAM - Modus S1100 WS (5000K) (1.000)	135501	135500	1180.0
Total:			3252021	3252000	28320.0

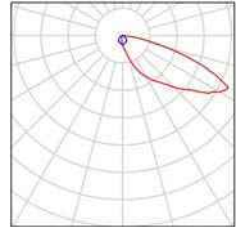
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ALL ON / Luminaire parts list

24 Pieces MIDSTREAM - Modus S1100 WS (5000K)
Article No.:
Luminous flux (Luminaire): 135501 lm
Luminous flux (Lamps): 135500 lm
Luminaire Wattage: 1180.0 W
Luminaire classification according to CIE: 100
CIE flux code: 31 67 95 100 100
Fitting: 1 x LED (Correction Factor 1.000).

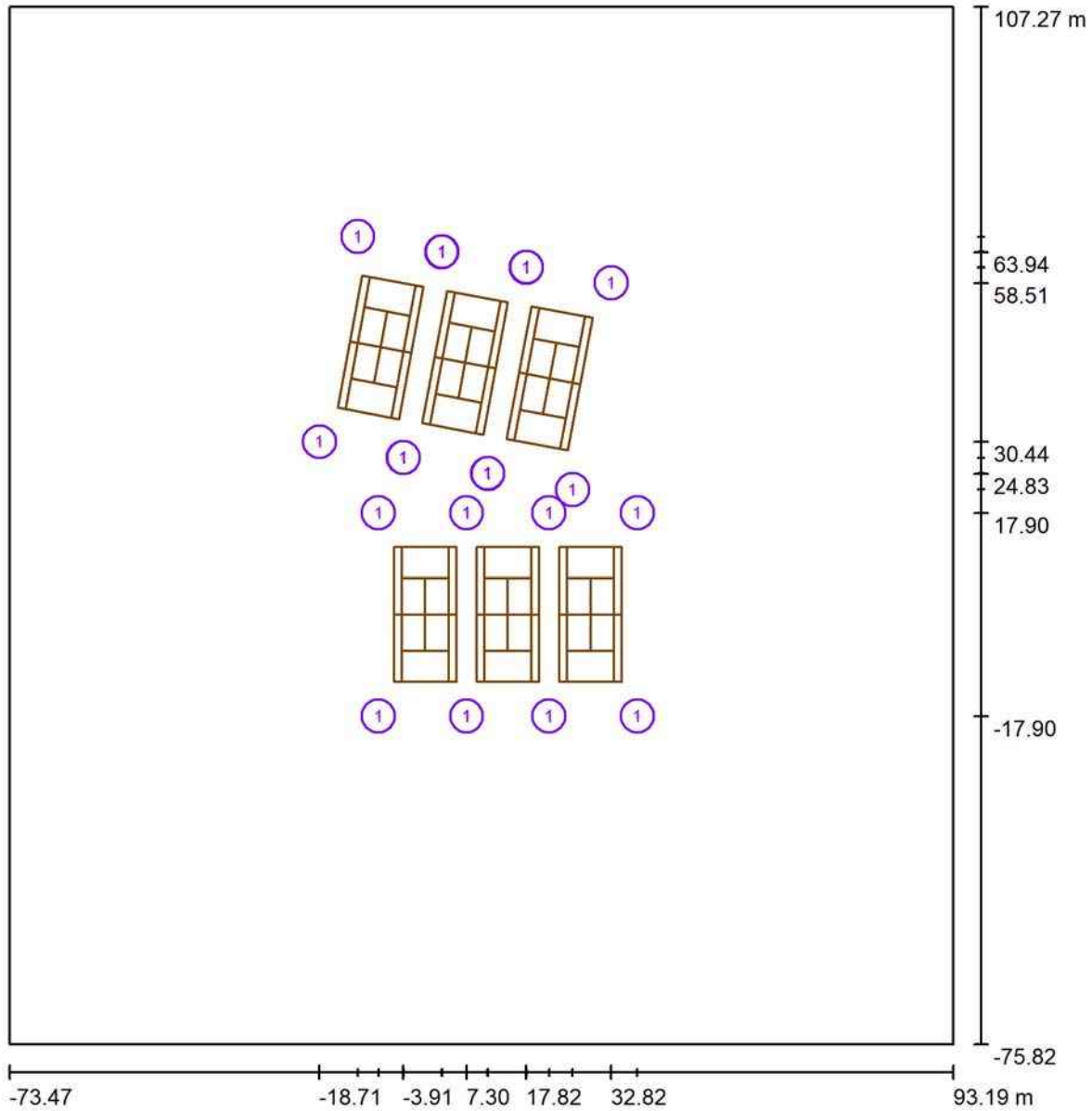
See our luminaire catalog
for an image of the
luminaire.



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ALL ON / Luminaires (layout plan)



Scale 1 : 1239

Luminaire Parts List

No.	Pieces	Designation
1	24	MIDSTREAM - Modus S1100 WS (5000K)

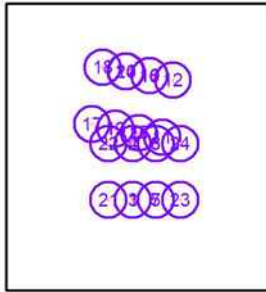
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ALL ON / Luminaires (coordinates list)

MIDSTREAM - Modus S1100 WS (5000K)

135501 lm, 1180.0 W, 1 x 1 x LED (Correction Factor 1.000).

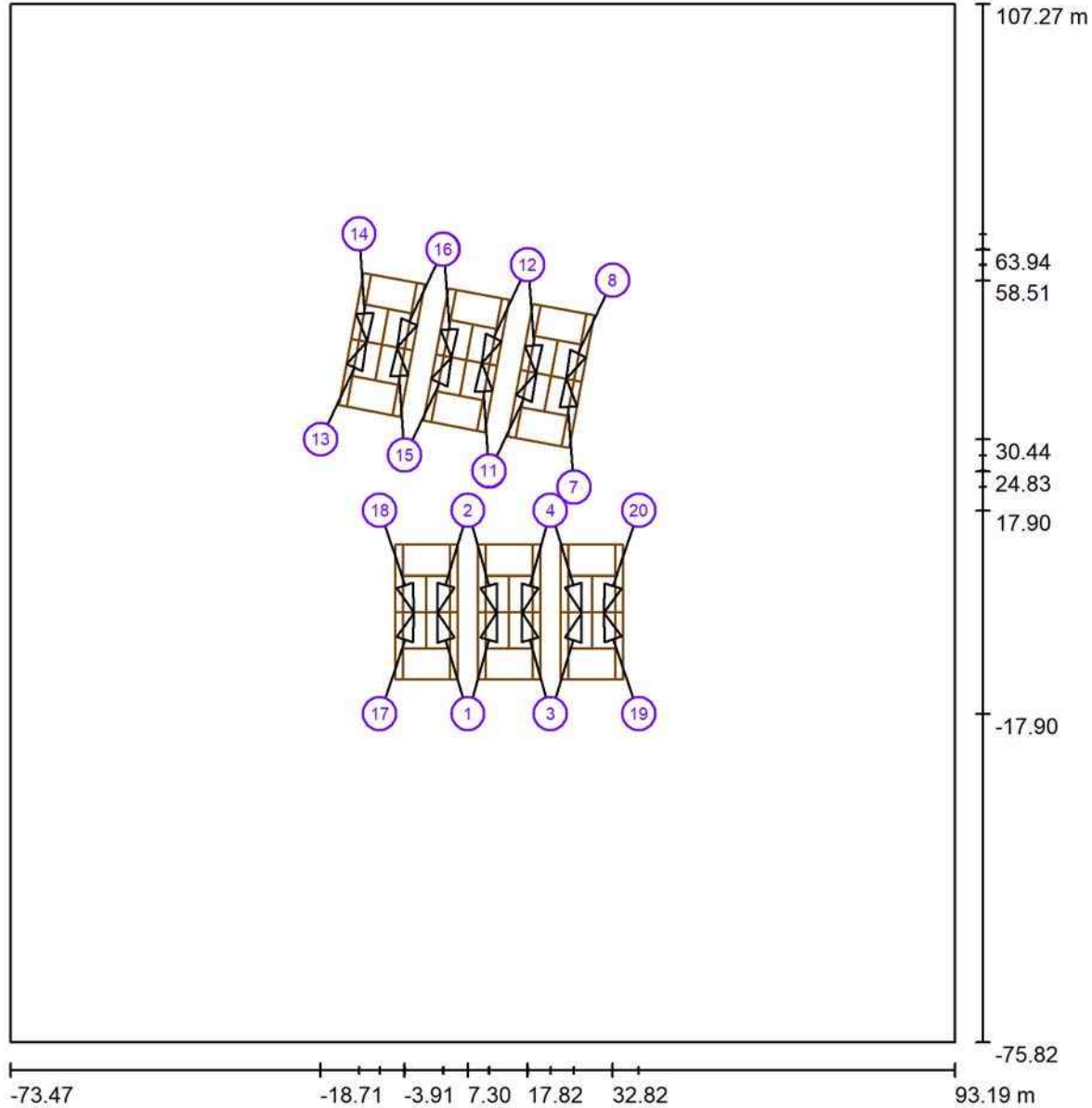


No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	7.300	-17.900	8.500	0.0	-1.5	106.8
2	7.300	17.901	8.500	0.0	-1.5	-106.8
3	7.300	-17.900	8.500	0.0	-1.4	74.5
4	7.300	17.901	8.500	0.0	-1.4	-74.5
5	21.840	-17.900	8.500	0.0	-1.4	105.5
6	21.840	17.901	8.500	0.0	-1.4	-105.5
7	21.840	-17.900	8.500	0.0	-1.5	73.1
8	21.840	17.901	8.500	0.0	-1.5	-73.1
9	11.047	24.827	8.500	0.0	-2.2	64.6
10	17.874	61.304	8.500	0.0	-2.2	-85.8
11	25.994	22.030	8.500	0.0	-2.2	94.2
12	32.821	58.507	8.500	0.0	-2.2	-115.4
13	-3.823	27.645	8.500	0.0	-2.1	64.7
14	2.981	64.004	8.500	0.0	-2.1	-85.9
15	11.015	24.868	8.500	0.0	-2.1	94.1
16	17.819	61.227	8.500	0.0	-2.1	-115.3
17	-18.712	30.439	8.500	0.0	-1.9	64.8
18	-11.924	66.708	8.500	0.0	-1.9	-86.0
19	-3.914	27.670	8.500	0.0	-1.9	94.0
20	2.874	63.939	8.500	0.0	-1.9	-115.2
21	-8.300	-17.900	8.500	0.0	-1.7	71.4
22	-8.300	17.901	8.500	0.0	-1.7	-71.4
23	37.460	-17.900	8.500	0.0	-1.9	109.1
24	37.460	17.901	8.500	0.0	-1.9	-109.1

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ALL ON / Sport Luminaires (Coordinates List)



Scale 1 : 1239

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
MIDSTREAM - Modus S1100 WS (5000K)	1	7.300	-17.900	8.500	1.898	-0.047	0.000	24.5	(C IMax, G IMax)	Pole Position 1
MIDSTREAM - Modus S1100 WS (5000K)	2	7.300	17.901	8.500	1.898	0.048	0.000	24.5	(C IMax, G IMax)	Pole Position 2
MIDSTREAM - Modus S1100 WS (5000K)	1	7.300	-17.900	8.500	12.271	0.022	0.000	24.6	(C IMax, G IMax)	Pole Position 1
MIDSTREAM - Modus S1100 WS (5000K)	2	7.300	17.901	8.500	12.271	-0.021	0.000	24.6	(C IMax, G IMax)	Pole Position 2

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ALL ON / Sport Luminaires (Coordinates List)

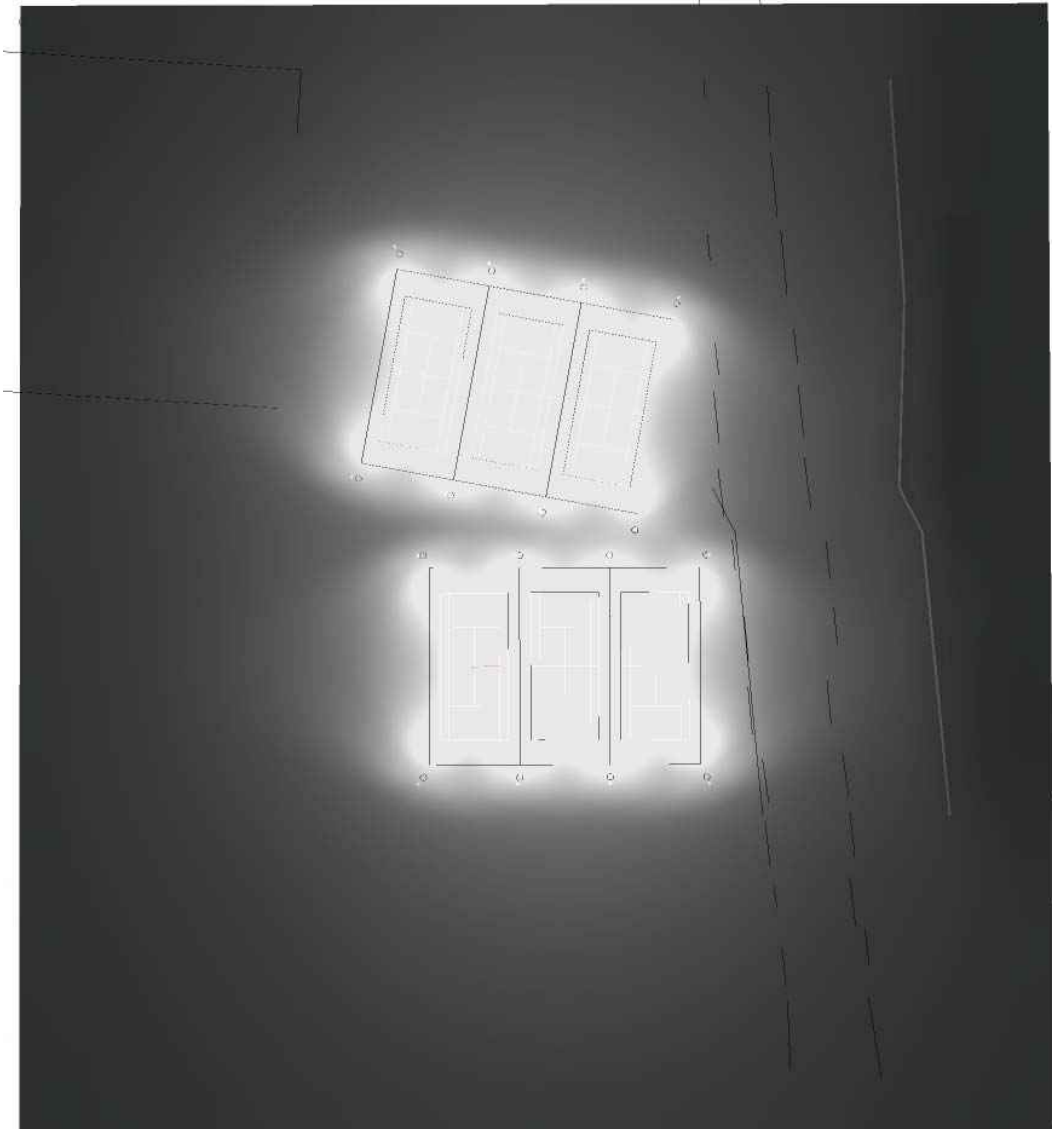
List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
MIDSTREAM - Modus S1100 WS (5000K)	3	21.840	-17.900	8.500	16.869	0.022	0.000	24.6	(C IMax, G IMax)	Pole Position 3
MIDSTREAM - Modus S1100 WS (5000K)	4	21.840	17.901	8.500	16.869	-0.021	0.000	24.6	(C IMax, G IMax)	Pole Position 4
MIDSTREAM - Modus S1100 WS (5000K)	3	21.840	-17.900	8.500	27.278	-0.053	0.000	24.5	(C IMax, G IMax)	Pole Position 3
MIDSTREAM - Modus S1100 WS (5000K)	4	21.840	17.901	8.500	27.278	0.054	0.000	24.5	(C IMax, G IMax)	Pole Position 4
MIDSTREAM - Modus S1100 WS (5000K)	5	11.047	24.827	8.500	19.305	42.224	0.000	23.8	(C IMax, G IMax)	Pole Position 5
MIDSTREAM - Modus S1100 WS (5000K)	6	17.874	61.304	8.500	19.281	42.098	0.000	23.8	(C IMax, G IMax)	Pole Position 6
MIDSTREAM - Modus S1100 WS (5000K)	7	25.994	22.030	8.500	24.587	41.236	0.000	23.8	(C IMax, G IMax)	Pole Position 7
MIDSTREAM - Modus S1100 WS (5000K)	8	32.821	58.507	8.500	24.563	41.110	0.000	23.8	(C IMax, G IMax)	Pole Position 8
MIDSTREAM - Modus S1100 WS (5000K)	9	-3.823	27.645	8.500	4.353	44.968	0.000	23.9	(C IMax, G IMax)	Pole Position 9
MIDSTREAM - Modus S1100 WS (5000K)	10	2.981	64.004	8.500	4.340	44.897	0.000	23.9	(C IMax, G IMax)	Pole Position 10
MIDSTREAM - Modus S1100 WS (5000K)	11	11.015	24.868	8.500	9.656	43.975	0.000	23.9	(C IMax, G IMax)	Pole Position 5
MIDSTREAM - Modus S1100 WS (5000K)	12	17.819	61.227	8.500	9.643	43.904	0.000	23.9	(C IMax, G IMax)	Pole Position 6
MIDSTREAM - Modus S1100 WS (5000K)	13	-18.712	30.439	8.500	-10.609	47.657	0.000	24.1	(C IMax, G IMax)	Pole Position 11
MIDSTREAM - Modus S1100 WS (5000K)	14	-11.924	66.708	8.500	-10.596	47.725	0.000	24.1	(C IMax, G IMax)	Pole Position 12
MIDSTREAM - Modus S1100 WS (5000K)	15	-3.914	27.670	8.500	-5.242	46.653	0.000	24.1	(C IMax, G IMax)	Pole Position 9
MIDSTREAM - Modus S1100 WS (5000K)	16	2.874	63.939	8.500	-5.229	46.721	0.000	24.1	(C IMax, G IMax)	Pole Position 10
MIDSTREAM - Modus S1100 WS (5000K)	17	-8.300	-17.900	8.500	-2.292	-0.044	0.000	24.3	(C IMax, G IMax)	Pole Position 13
MIDSTREAM - Modus S1100 WS (5000K)	18	-8.300	17.901	8.500	-2.292	0.045	0.000	24.3	(C IMax, G IMax)	Pole Position 14
MIDSTREAM - Modus S1100 WS (5000K)	19	37.460	-17.900	8.500	31.249	0.031	0.000	24.1	(C IMax, G IMax)	Pole Position 15
MIDSTREAM - Modus S1100 WS (5000K)	20	37.460	17.901	8.500	31.249	-0.030	0.000	24.1	(C IMax, G IMax)	Pole Position 16

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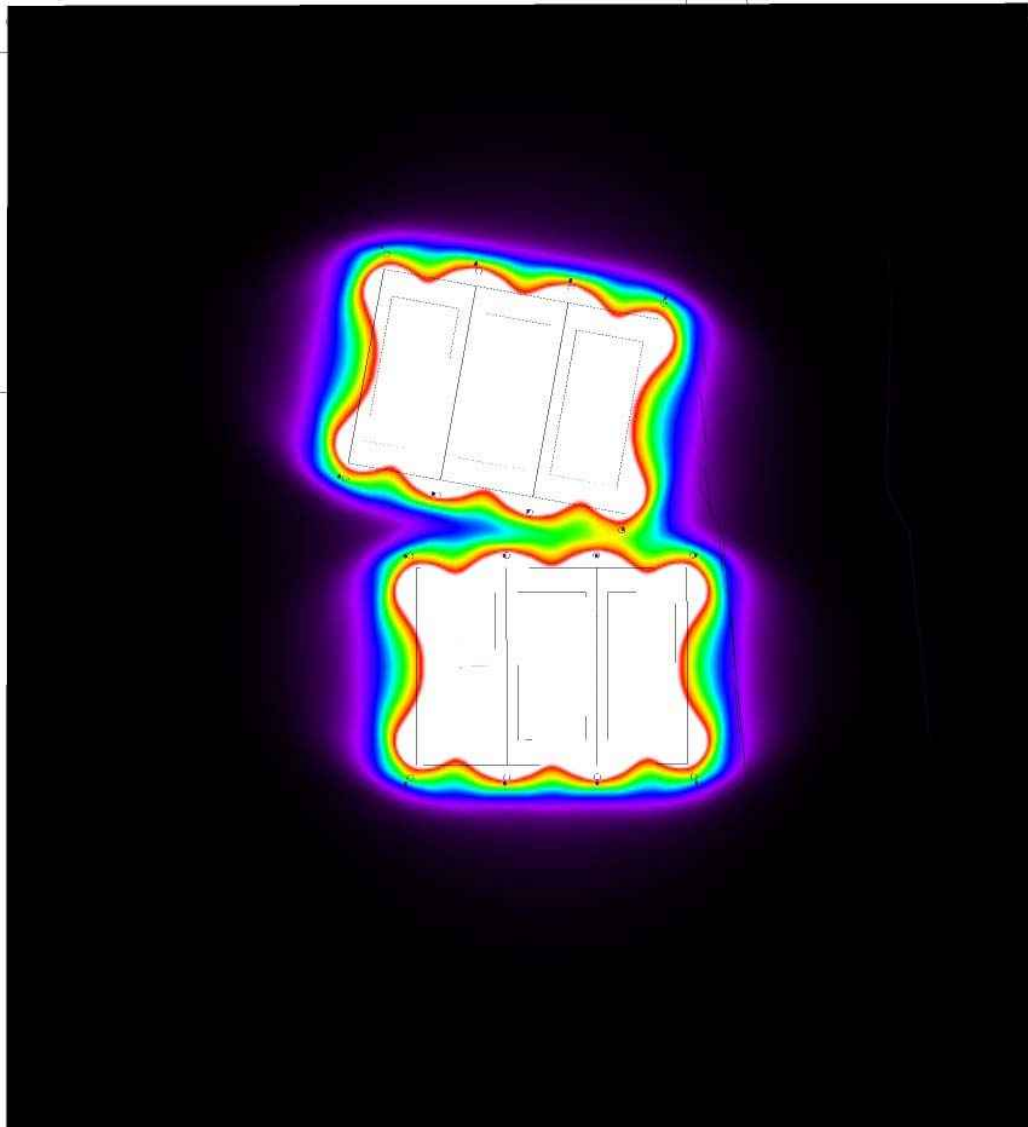
ALL ON / 3D Rendering



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ALL ON / False Colour Rendering



3.01 58.88 114.76 170.63 226.50 282.38 338.25 394.13 450

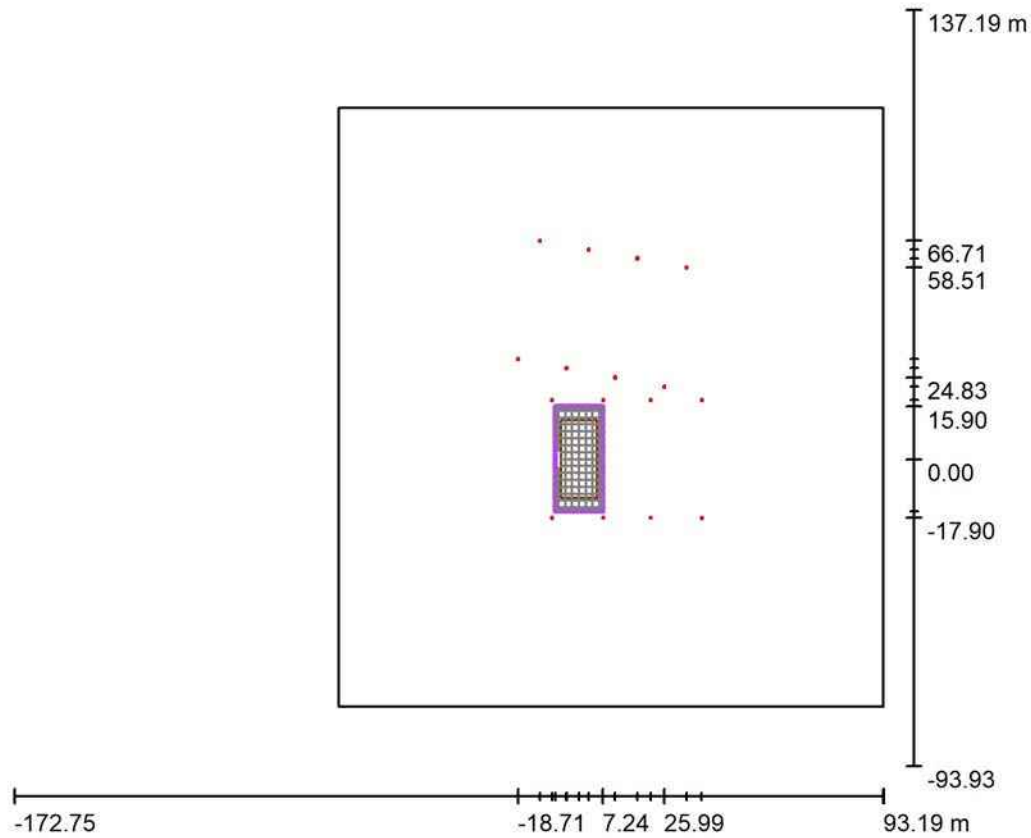
lx



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ALL ON / Tennis 1 Calculation Grid (TPA) / Summary



Scale 1 : 2314

Position: (-0.010 m, 0.000 m, 0.000 m)
 Size: (31.800 m, 14.500 m)
 Rotation: (0.0°, 0.0°, 90.0°)
 Type: User defined, Quantity Points: 102
 Belongs to the following sport arena: Tennis 1

Results overview

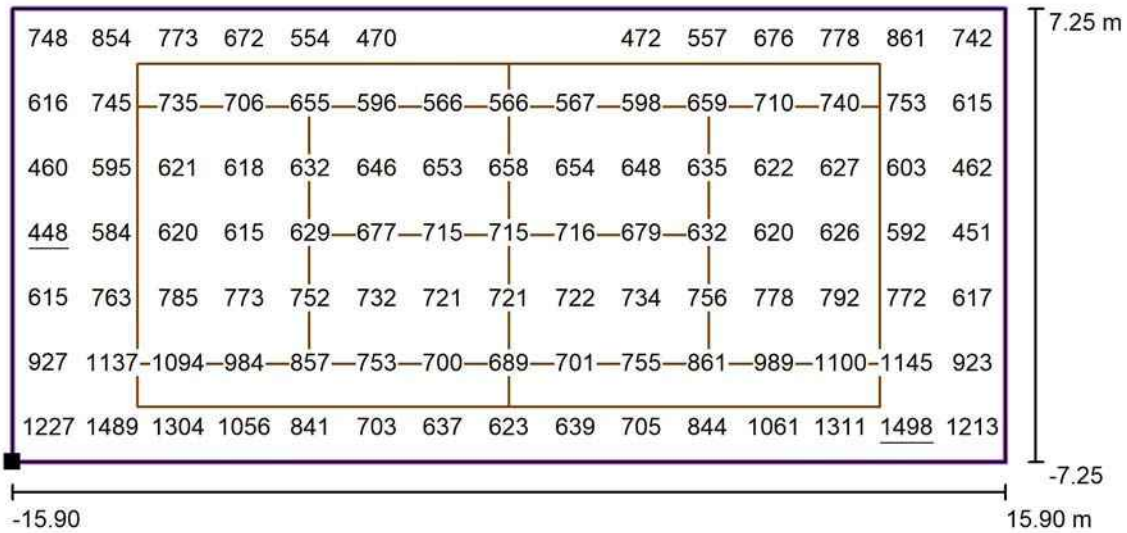
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	747	448	1498	0.60	0.30	/	0.000	/

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

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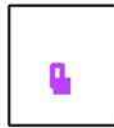
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ALL ON / Tennis 1 Calculation Grid (TPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 242

Position of surface in external scene:
 Marked point: (7.240 m, -15.900 m,
 0.000 m)



Grid: 102 Points

E_{av} [lx]
747

E_{min} [lx]
448

E_{max} [lx]
1498

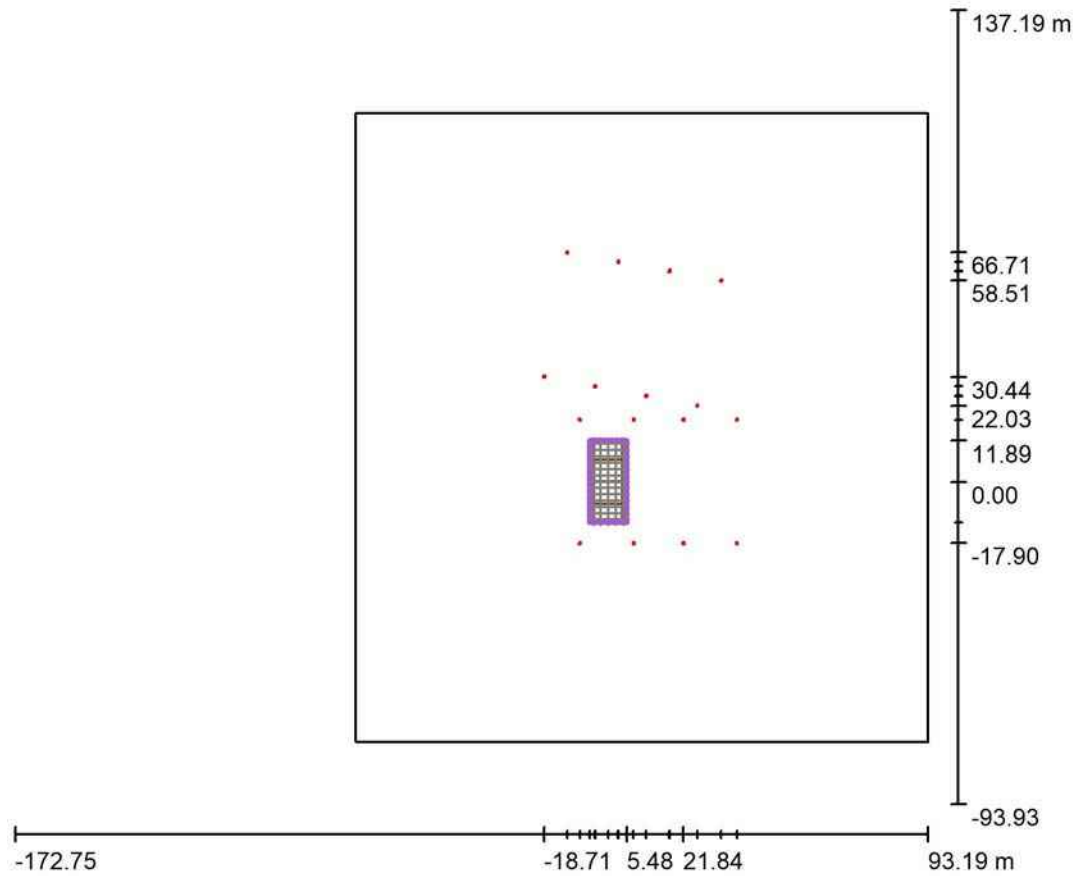
u_0
0.60

E_{min} / E_{max}
0.30

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ALL ON / Tennis 1 Calculation Grid (PPA) / Summary



Scale 1 : 2204

Position: (0.000 m, 0.000 m, 0.000 m)
 Size: (23.780 m, 10.970 m)
 Rotation: (0.0°, 0.0°, 90.0°)
 Type: Normal, Grid: 13 x 5 Points
 Belongs to the following sport arena: Tennis 1

Results overview

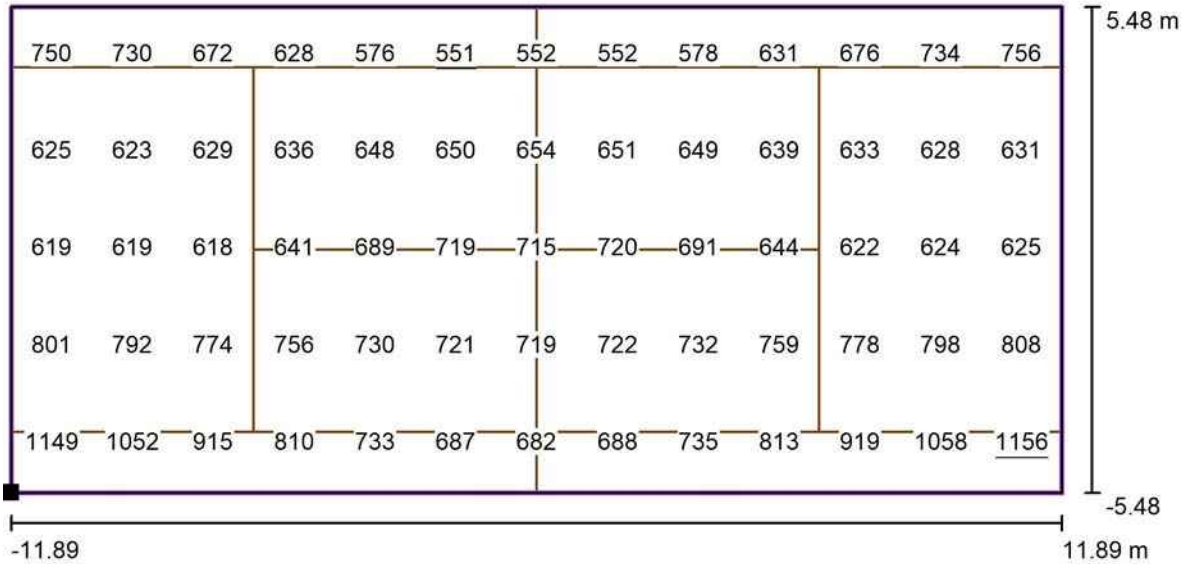
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	716	551	1156	0.77	0.48	/	0.000	/

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

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ALL ON / Tennis 1 Calculation Grid (PPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 171

Position of surface in external scene:
 Marked point: (5.485 m, -11.890 m,
 0.000 m)



Grid: 13 x 5 Points

E_{av} [lx]
716

E_{min} [lx]
551

E_{max} [lx]
1156

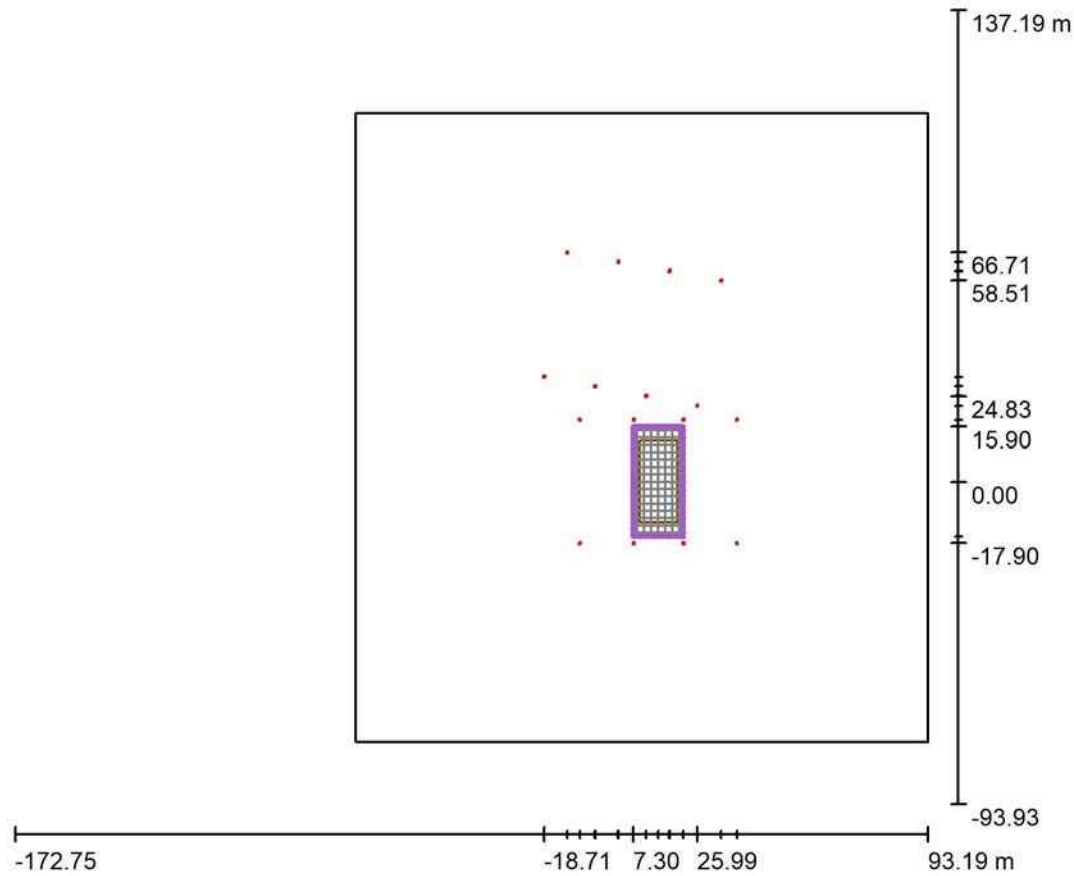
u_0
0.77

E_{min} / E_{max}
0.48

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ALL ON / Tennis 2 Calculation Grid (TPA) / Summary



Scale 1 : 2204

Position: (14.570 m, 0.000 m, 0.000 m)
 Size: (31.800 m, 14.500 m)
 Rotation: (0.0°, 0.0°, 90.0°)
 Type: Normal, Grid: 15 x 7 Points
 Belongs to the following sport arena: Tennis 2

Results overview

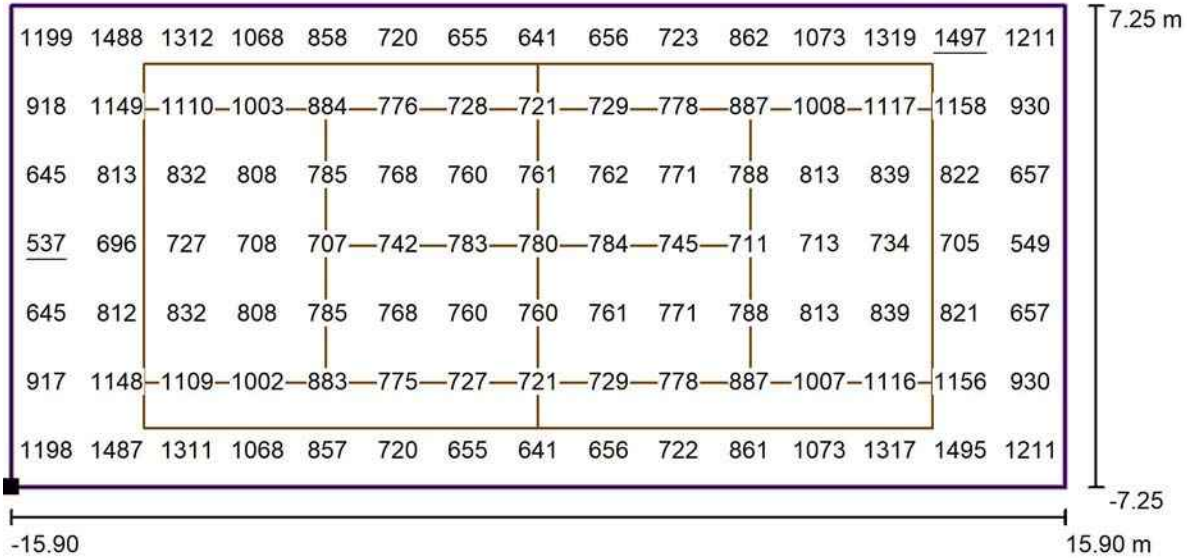
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	878	537	1497	0.61	0.36	/	0.000	/

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

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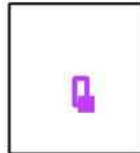
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ALL ON / Tennis 2 Calculation Grid (TPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 228

Position of surface in external scene:
 Marked point: (21.820 m, -15.900 m, 0.000 m)



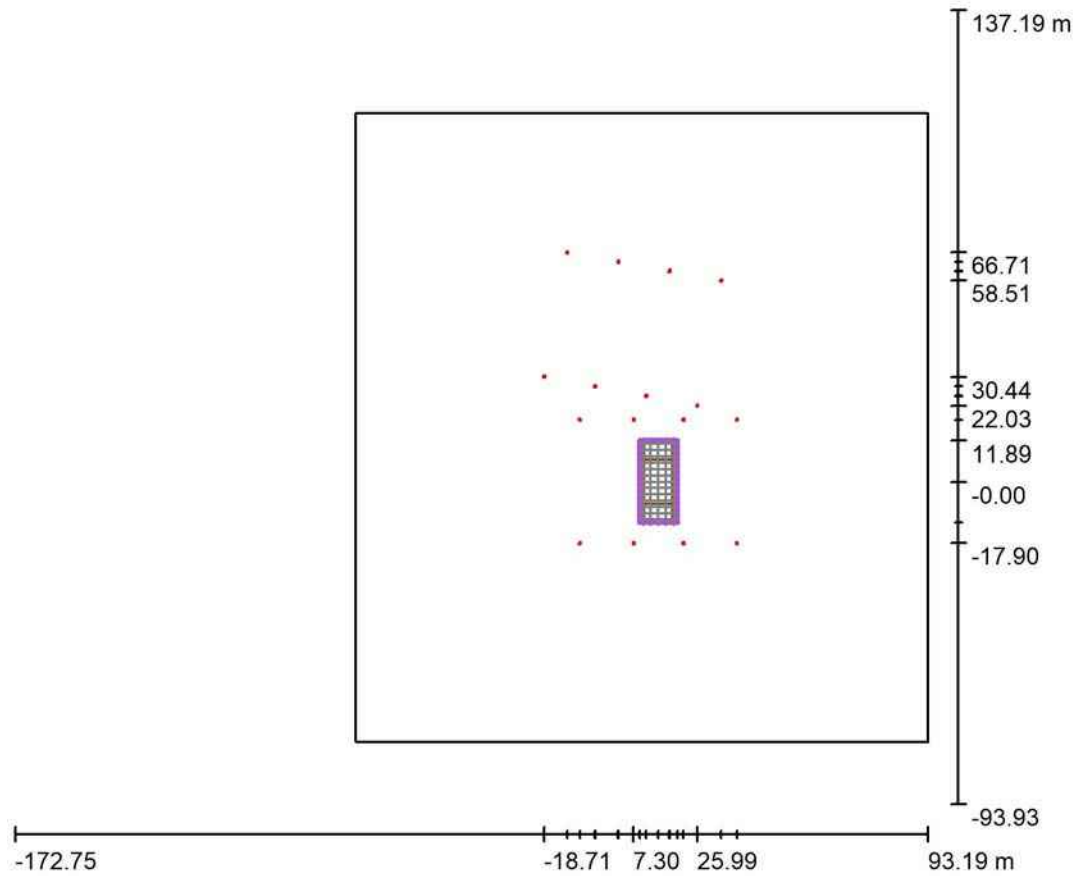
Grid: 15 x 7 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
878	537	1497	0.61	0.36

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ALL ON / Tennis 2 Calculation Grid (PPA) / Summary



Scale 1 : 2204

Position: (14.580 m, 0.000 m, 0.000 m)
 Size: (23.780 m, 10.970 m)
 Rotation: (0.0°, 0.0°, 90.0°)
 Type: Normal, Grid: 13 x 5 Points
 Belongs to the following sport arena: Tennis 2

Results overview

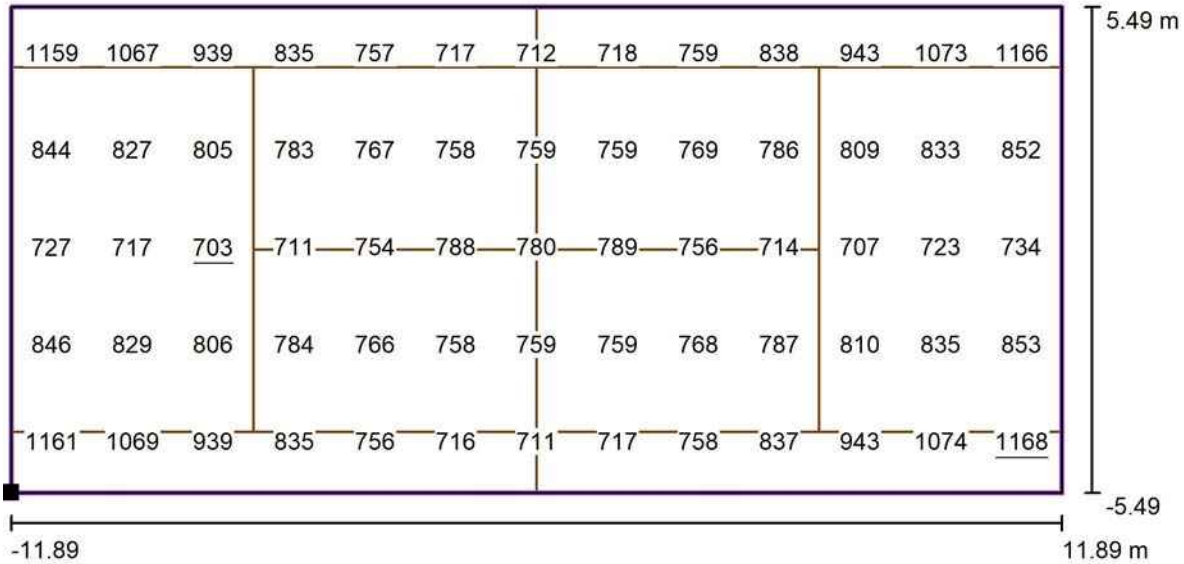
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	826	703	1168	0.85	0.60	/	0.000	/

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

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ALL ON / Tennis 2 Calculation Grid (PPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 171

Position of surface in external scene:
 Marked point: (20.065 m, -11.890 m,
 0.000 m)



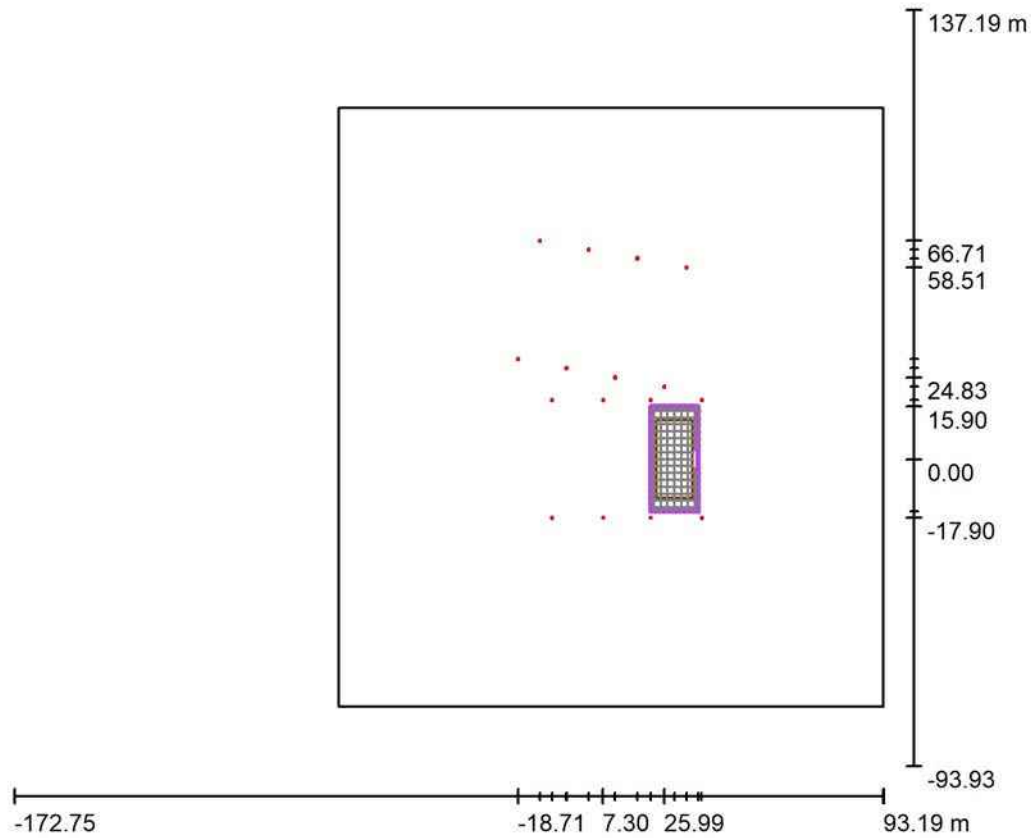
Grid: 13 x 5 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
826	703	1168	0.85	0.60

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ALL ON / Tennis 3 Calculation Grid (TPA) / Summary



Scale 1 : 2314

Position: (29.180 m, 0.000 m, 0.000 m)
 Size: (31.800 m, 14.500 m)
 Rotation: (0.0°, 0.0°, 90.0°)
 Type: User defined, Quantity Points: 102
 Belongs to the following sport arena: Tennis 3

Results overview

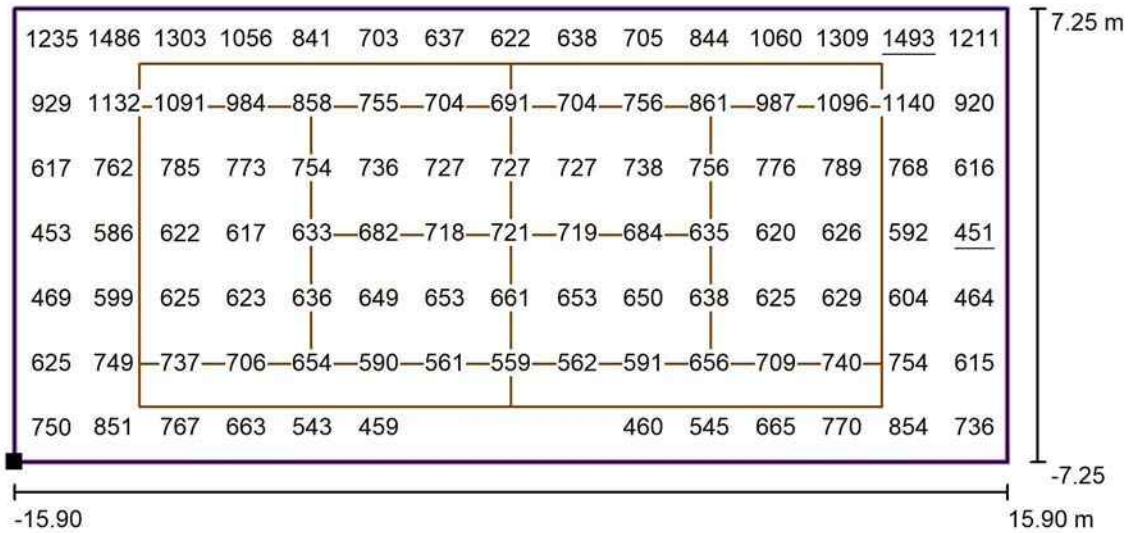
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	747	451	1493	0.60	0.30	/	0.000	/

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

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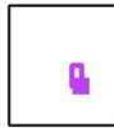
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ALL ON / Tennis 3 Calculation Grid (TPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 242

Position of surface in external scene:
 Marked point: (36.430 m, -15.900 m, 0.000 m)



Grid: 102 Points

E_{av} [lx]
747

E_{min} [lx]
451

E_{max} [lx]
1493

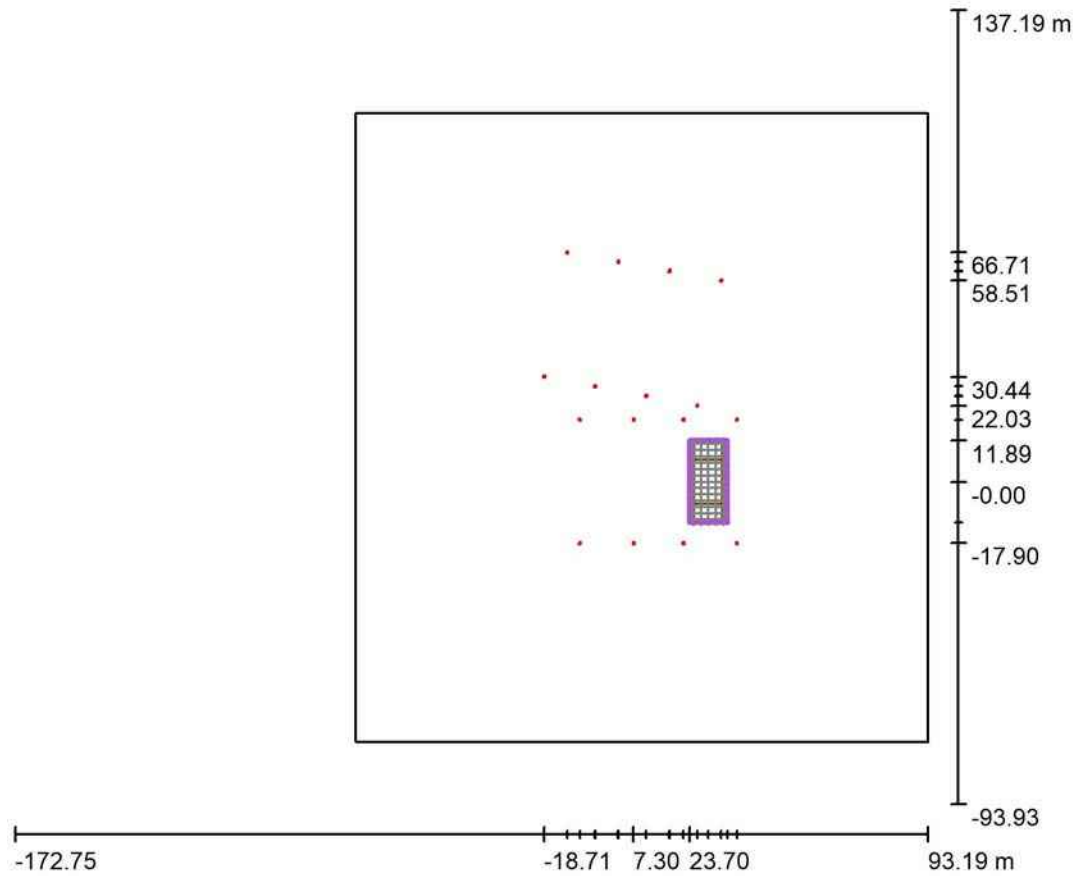
u_0
0.60

E_{min} / E_{max}
0.30

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ALL ON / Tennis 3 Calculation Grid (PPA) / Summary



Scale 1 : 2204

Position: (29.190 m, 0.000 m, 0.000 m)
 Size: (23.780 m, 10.970 m)
 Rotation: (0.0°, 0.0°, 90.0°)
 Type: Normal, Grid: 13 x 5 Points
 Belongs to the following sport arena: Tennis 3

Results overview

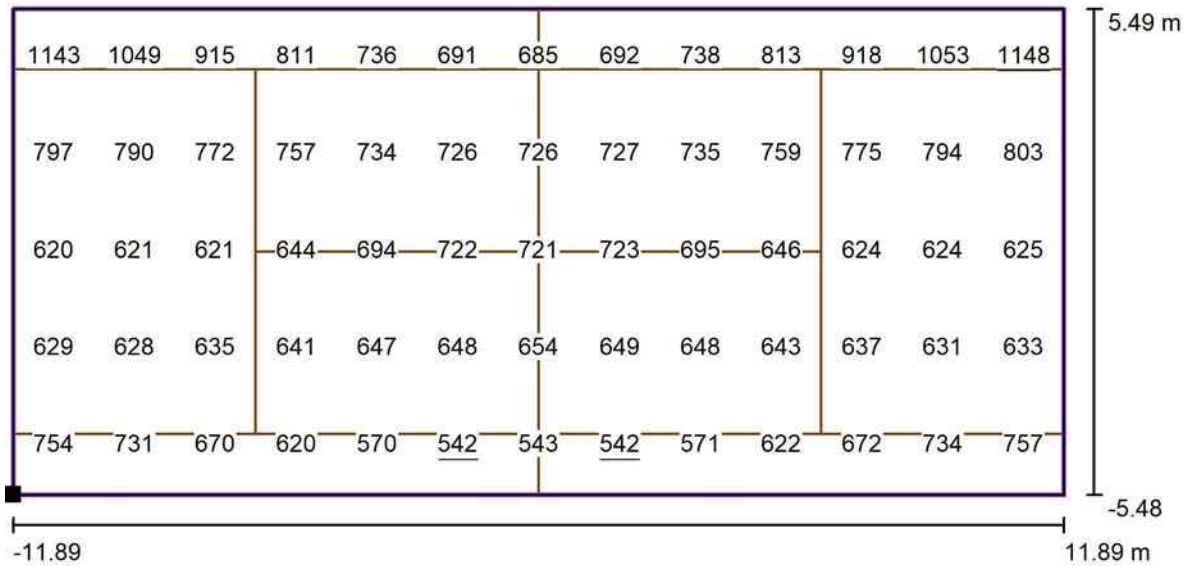
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	716	542	1148	0.76	0.47	/	0.000	/

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

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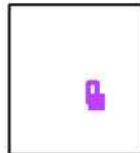
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ALL ON / Tennis 3 Calculation Grid (PPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 171

Position of surface in external scene:
 Marked point: (34.675 m, -11.890 m,
 0.000 m)



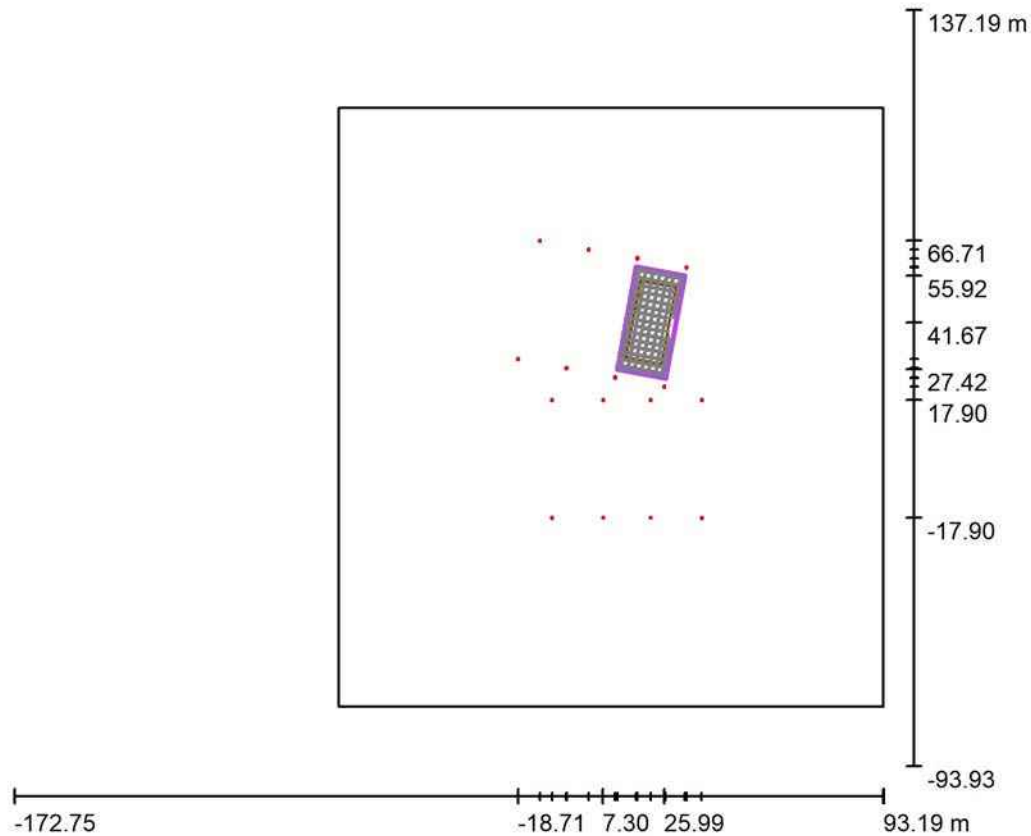
Grid: 13 x 5 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
716	542	1148	0.76	0.47

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ALL ON / Tennis 4 Calculation Grid (TPA) / Summary



Scale 1 : 2314

Position: (21.934 m, 41.667 m, 0.000 m)
 Size: (31.800 m, 15.000 m)
 Rotation: (0.0°, 0.0°, 79.4°)
 Type: User defined, Quantity Points: 102
 Belongs to the following sport arena: Tennis 4

Results overview

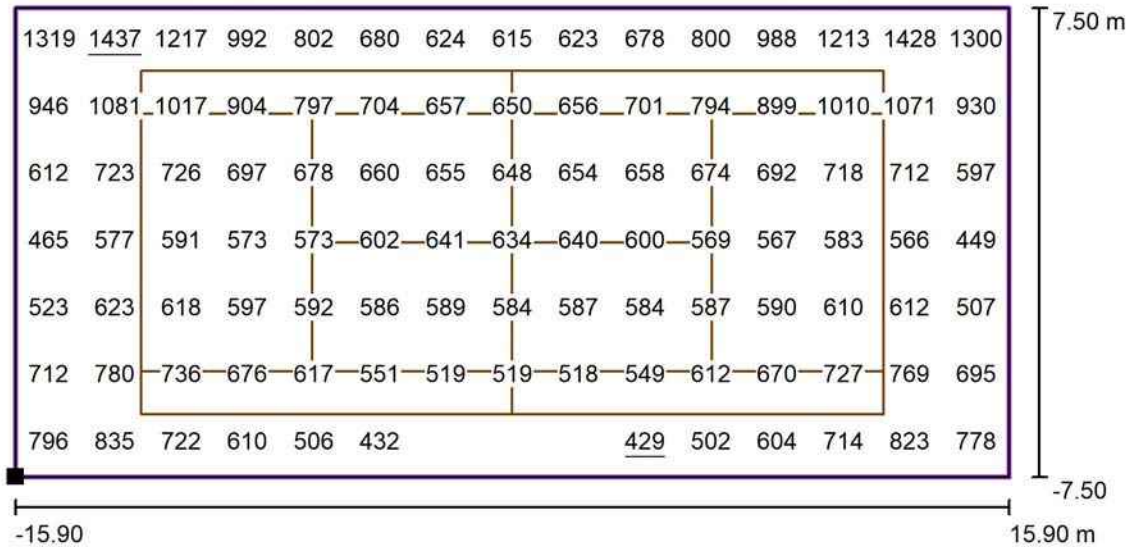
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	710	429	1437	0.60	0.30	/	0.000	/

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

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ALL ON / Tennis 4 Calculation Grid (TPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 242

Position of surface in external scene:
 Marked point: (26.381 m, 24.659 m,
 0.000 m)



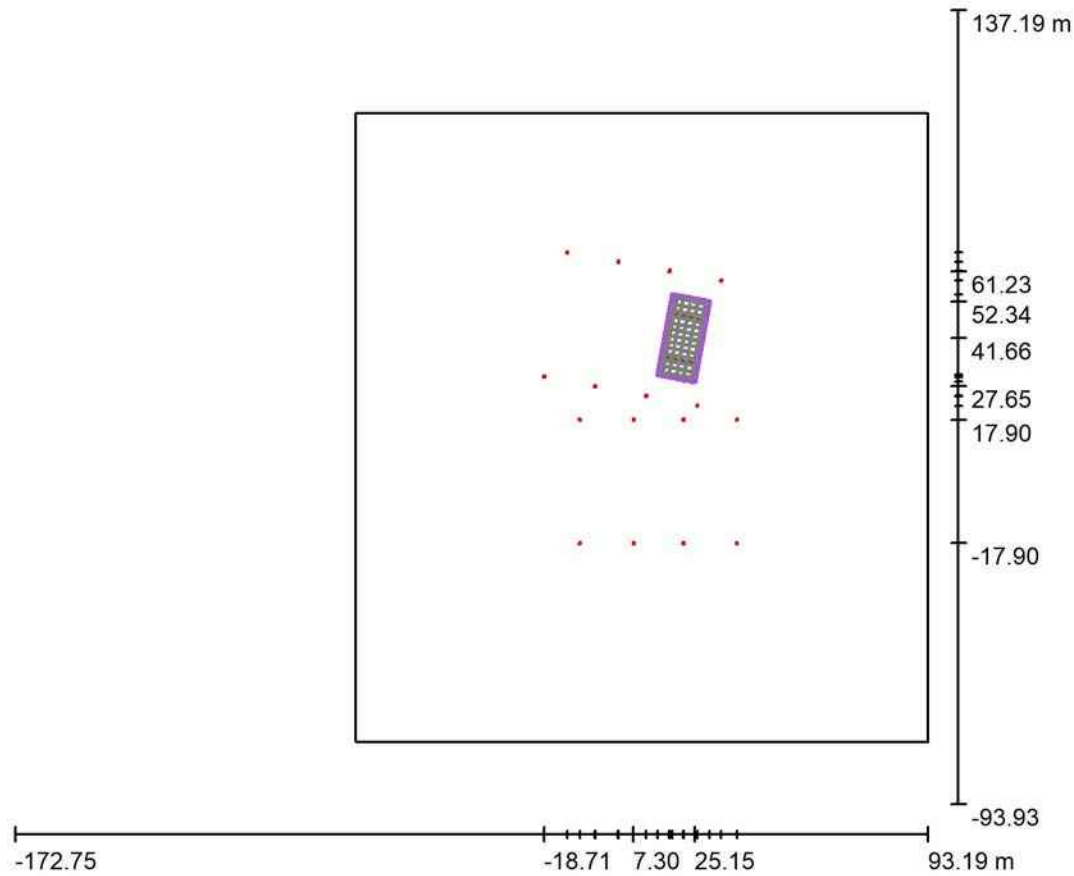
Grid: 102 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
710	429	1437	0.60	0.30

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ALL ON / Tennis 4 Calculation Grid (PPA) / Summary



Scale 1 : 2204

Position: (21.944 m, 41.665 m, 0.000 m)
 Size: (23.780 m, 10.970 m)
 Rotation: (0.0°, 0.0°, 79.4°)
 Type: Normal, Grid: 13 x 5 Points
 Belongs to the following sport arena: Tennis 4

Results overview

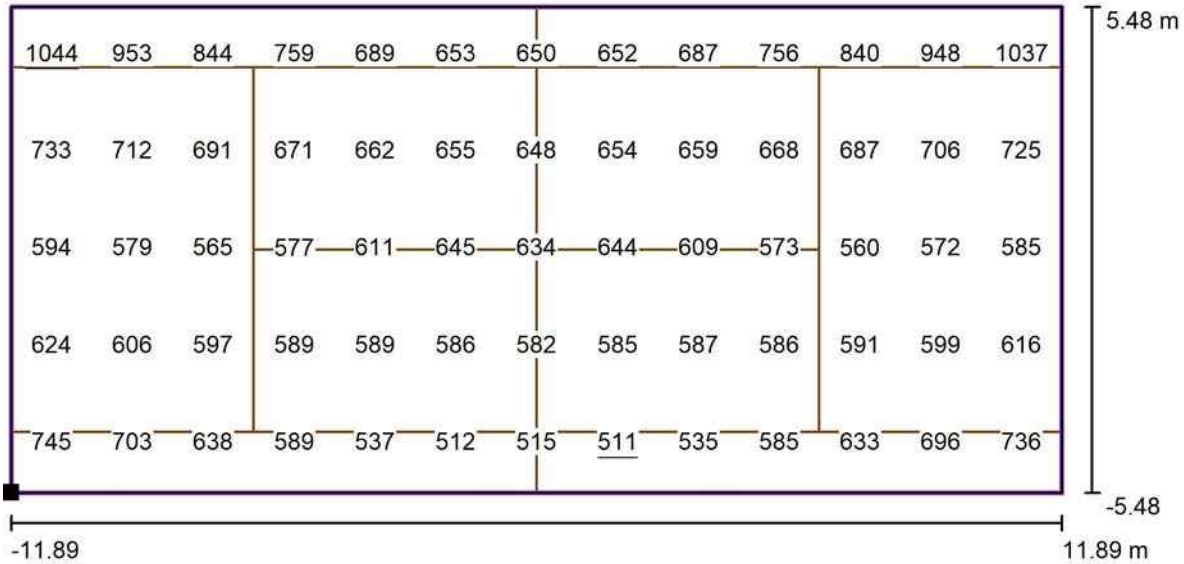
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	658	511	1044	0.78	0.49	/	0.000	/

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

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ALL ON / Tennis 4 Calculation Grid (PPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 171

Position of surface in external scene:
 Marked point: (25.148 m, 28.969 m,
 0.000 m)



Grid: 13 x 5 Points

E_{av} [lx]
658

E_{min} [lx]
511

E_{max} [lx]
1044

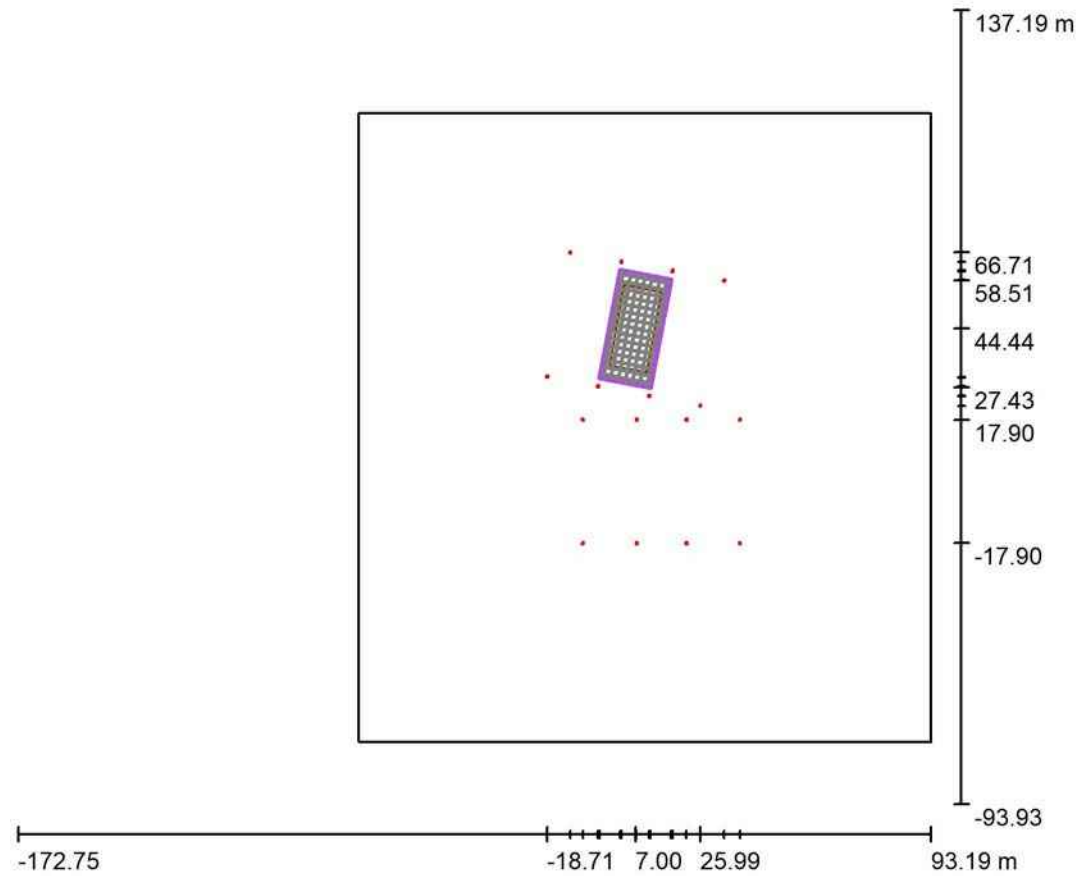
$u0$
0.78

E_{min} / E_{max}
0.49

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ALL ON / Tennis 5 Calculation Grid (TPA) / Summary



Scale 1 : 2204

Position: (6.998 m, 44.436 m, 0.000 m)
 Size: (31.800 m, 15.000 m)
 Rotation: (0.0°, 0.0°, 79.4°)
 Type: Normal, Grid: 15 x 7 Points
 Belongs to the following sport arena: Tennis 5

Results overview

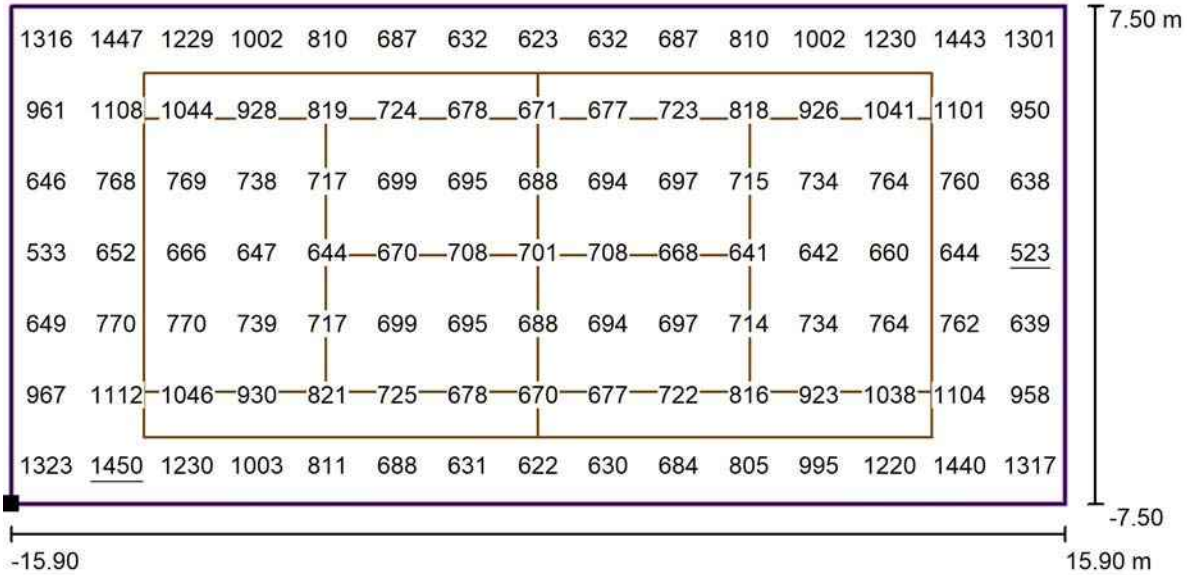
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	831	523	1450	0.63	0.36	/	0.000	/

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

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ALL ON / Tennis 5 Calculation Grid (TPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 228

Position of surface in external scene:
 Marked point: (11.445 m, 27.428 m,
 0.000 m)



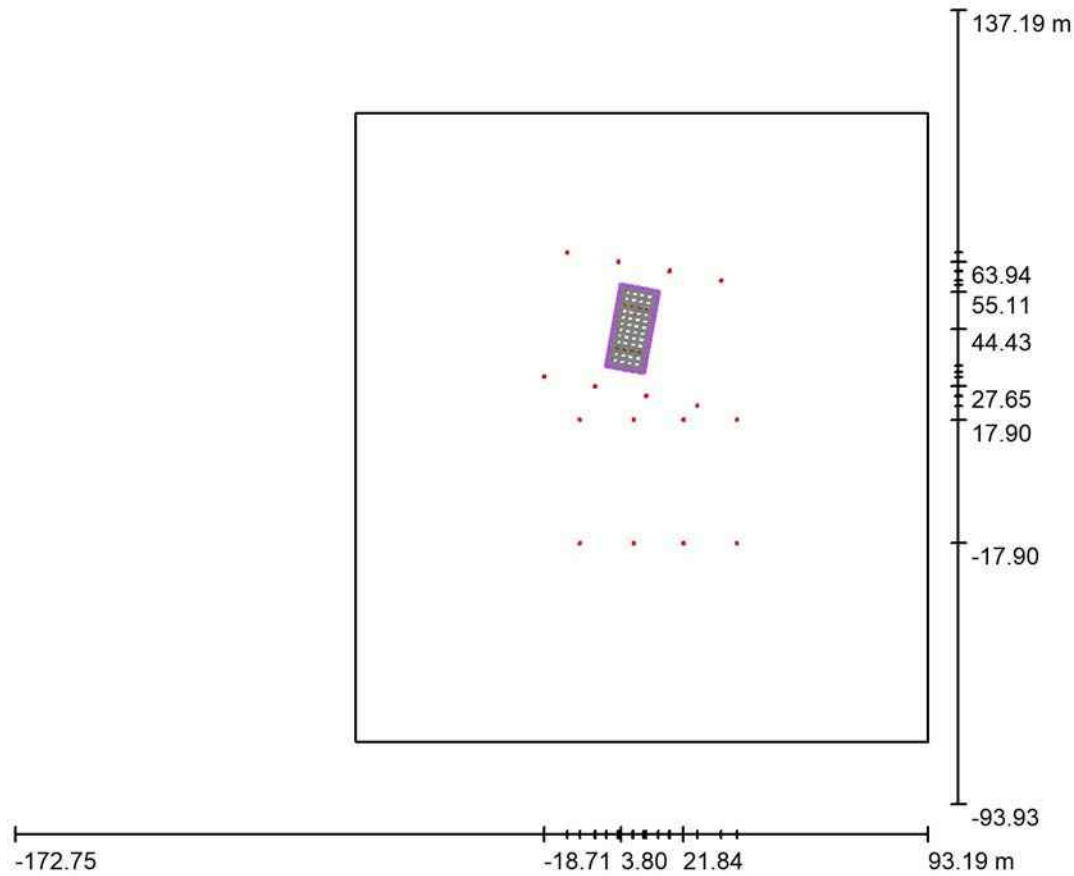
Grid: 15 x 7 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
831	523	1450	0.63	0.36

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ALL ON / Tennis 5 Calculation Grid (PPA) / Summary



Scale 1 : 2204

Position: (7.008 m, 44.434 m, 0.000 m)
 Size: (23.780 m, 10.970 m)
 Rotation: (0.0°, 0.0°, 79.4°)
 Type: Normal, Grid: 13 x 5 Points
 Belongs to the following sport arena: Tennis 5

Results overview

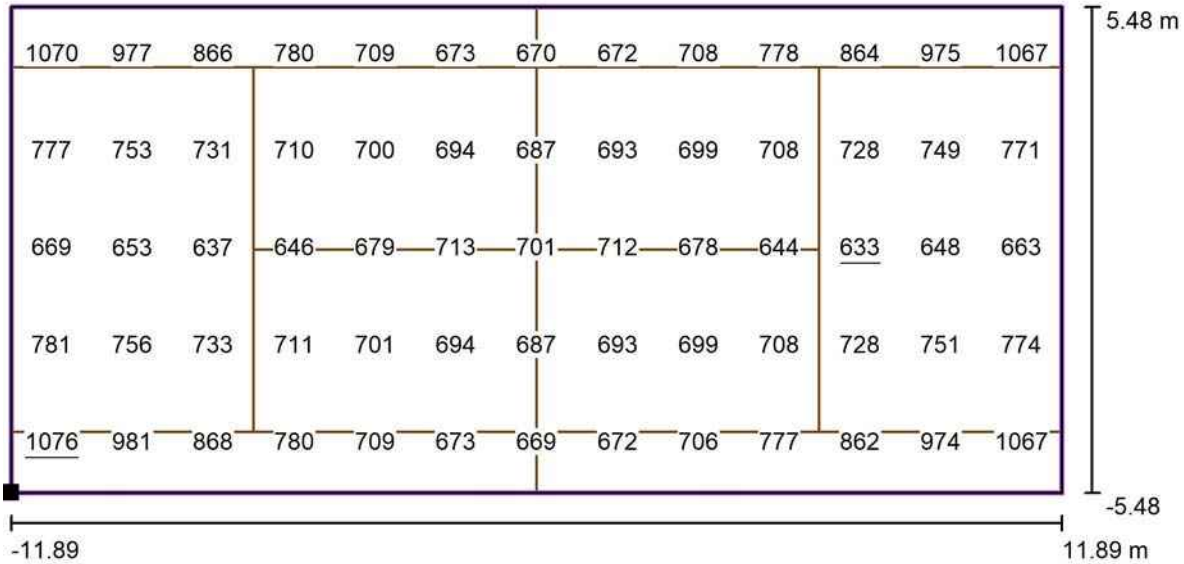
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	756	633	1076	0.84	0.59	/	0.000	/

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

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ALL ON / Tennis 5 Calculation Grid (PPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 171

Position of surface in external scene:
 Marked point: (10.212 m, 31.738 m,
 0.000 m)



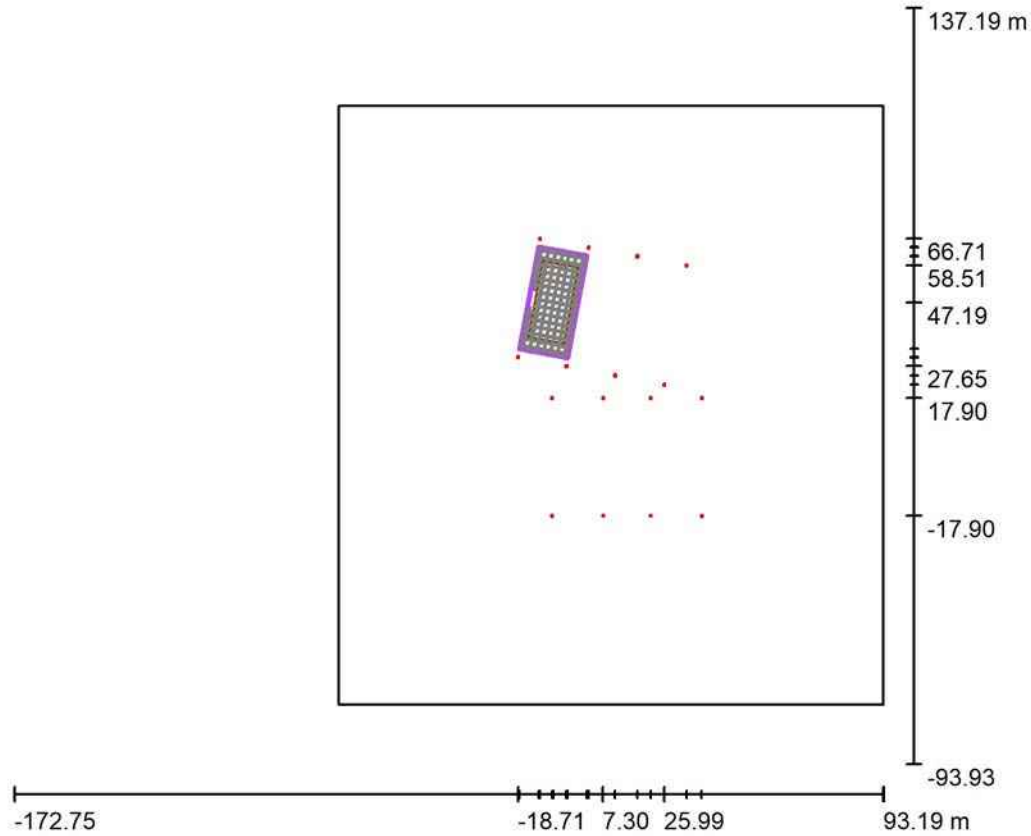
Grid: 13 x 5 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
756	633	1076	0.84	0.59

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ALL ON / Tennis 6 Calculation Grid (TPA) / Summary



Scale 1 : 2314

Position: (-7.919 m, 47.189 m, 0.000 m)
 Size: (31.800 m, 15.000 m)
 Rotation: (0.0°, 0.0°, 79.4°)
 Type: User defined, Quantity Points: 102
 Belongs to the following sport arena: Tennis 6

Results overview

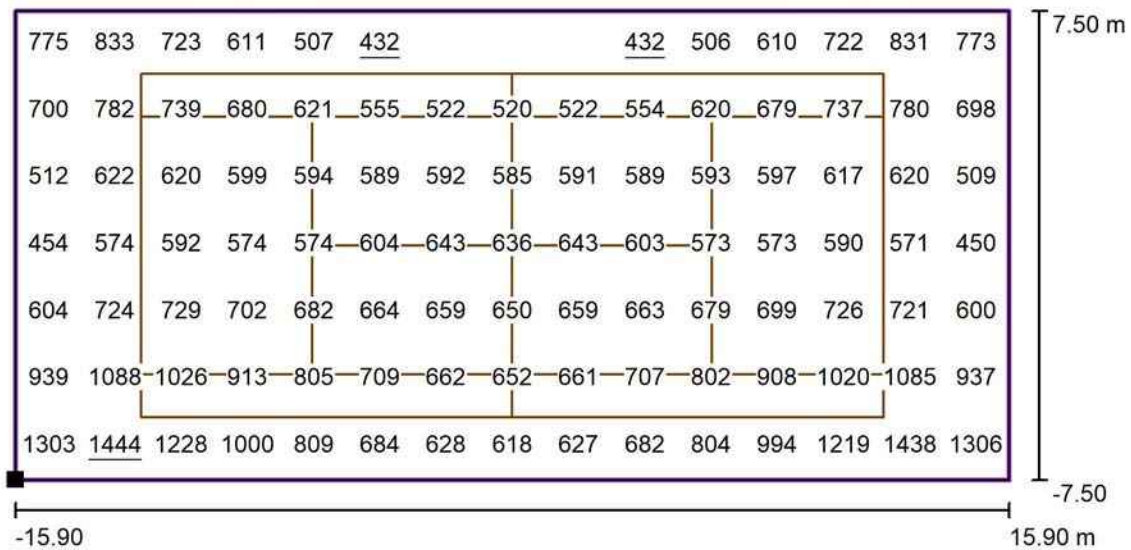
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	714	432	1444	0.60	0.30	/	0.000	/

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

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ALL ON / Tennis 6 Calculation Grid (TPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 242

Position of surface in external scene:
 Marked point: (-3.472 m, 30.181 m,
 0.000 m)



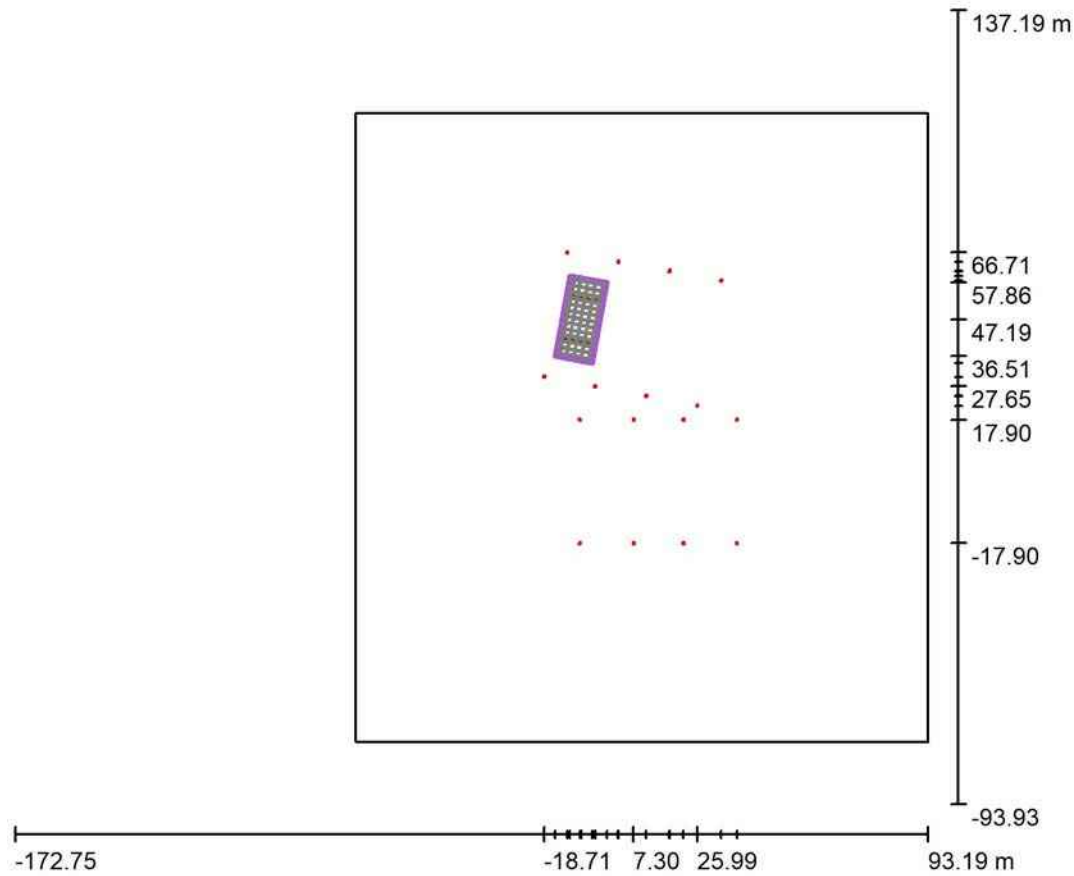
Grid: 102 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
714	432	1444	0.60	0.30

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ALL ON / Tennis 6 Calculation Grid (PPA) / Summary



Scale 1 : 2204

Position: (-7.909 m, 47.187 m, 0.000 m)
 Size: (23.780 m, 10.970 m)
 Rotation: (0.0°, 0.0°, 79.4°)
 Type: Normal, Grid: 13 x 5 Points
 Belongs to the following sport arena: Tennis 6

Results overview

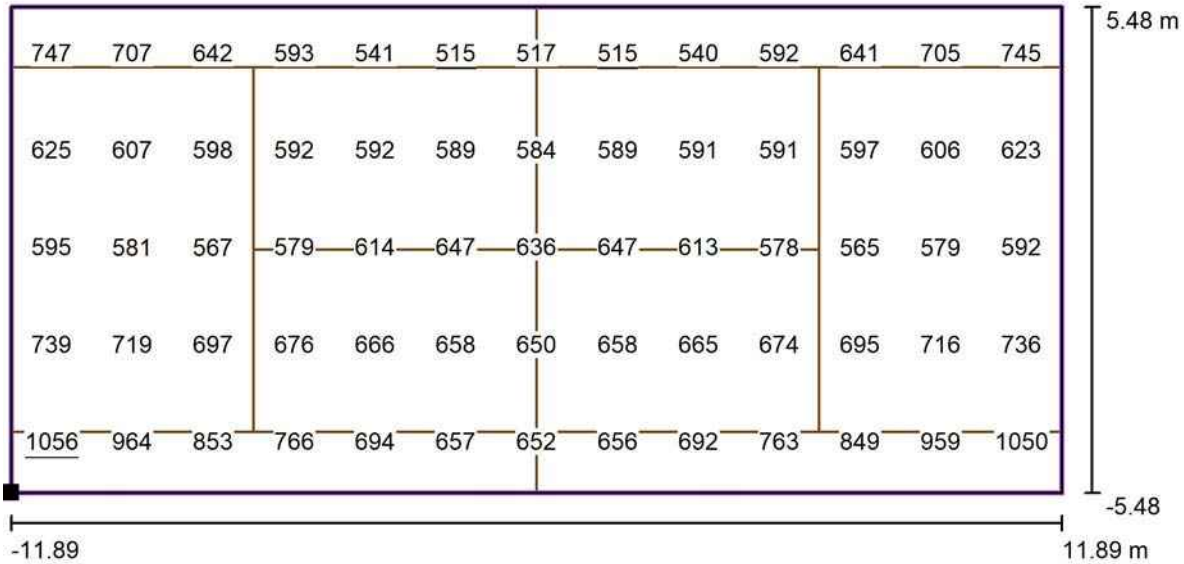
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	664	515	1056	0.78	0.49	/	0.000	/

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

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ALL ON / Tennis 6 Calculation Grid (PPA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 171

Position of surface in external scene:
 Marked point: (-4.705 m, 34.491 m,
 0.000 m)



Grid: 13 x 5 Points

E_{av} [lx]
664

E_{min} [lx]
515

E_{max} [lx]
1056

u_0
0.78

E_{min} / E_{max}
0.49

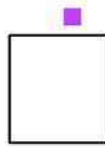
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ALL ON / Spill Out - House 1 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (34.061 m, 137.195 m,
 0.000 m)



1.000 1.34

0.000 1.54

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
1.44

E_{min} [lx]
1.34

E_{max} [lx]
1.54

$u0$
0.93

E_{min} / E_{max}
0.87

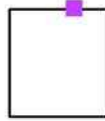
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ALL ON / Spill Out - House 2 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (36.721 m, 108.534 m,
 0.000 m)



1.000 4.38

0.000 4.78

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
4.58	4.38	4.78	0.96	0.92

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ALL ON / Spill Out - House 3 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (37.913 m, 92.603 m,
 0.000 m)



1.000 8.88

0.000 9.59

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
9.23	8.88	9.59	0.96	0.93

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ALL ON / Spill Out - House 4 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (38.283 m, 82.245 m,
 0.000 m)



1.000 16
0.000 16
 m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
16	16	16	0.99	0.97

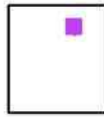
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ALL ON / Spill Out - House 5 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (37.686 m, 69.706 m,
 0.000 m)



1.000 35

0.000 33

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
34

E_{min} [lx]
33

E_{max} [lx]
35

$u0$
0.96

E_{min} / E_{max}
0.93

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ALL ON / Spill Out - House 6 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (38.898 m, 55.448 m,
 0.000 m)



1.000 134

0.000 103

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
118	103	134	0.87	0.77

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ALL ON / Spill Out - House 7 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (38.898 m, 44.103 m,
 0.000 m)



1.000 105

0.000 90

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
97	90	105	0.92	0.86

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ALL ON / Spill Out - House 8 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (39.495 m, 31.565 m,
 0.000 m)



1.000 91

0.000 75

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
83	75	91	0.90	0.82

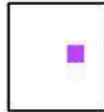
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ALL ON / Spill Out - House 9 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (41.592 m, 20.240 m,
 0.000 m)



1.000 180

0.000 129

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
154	129	180	0.83	0.72

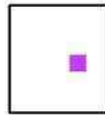
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ALL ON / Spill Out - House 10 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (43.316 m, 7.562 m,
 0.000 m)



1.000 132

0.000 115

m 4.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
124

E_{min} [lx]
115

E_{max} [lx]
132

u_0
0.93

E_{min} / E_{max}
0.87

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ALL ON / Spill Out - House 11 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (44.417 m, -3.158 m,
 0.000 m)



1.000 118

0.000 103

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
111	103	118	0.93	0.87

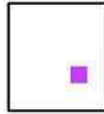
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ALL ON / Spill Out - House 12 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (46.352 m, -15.281 m,
 0.000 m)



1.000 35

0.000 31

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
33

E_{min} [lx]
31

E_{max} [lx]
35

$u0$
0.93

E_{min} / E_{max}
0.86

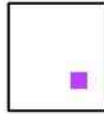
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ALL ON / Spill Out - House 13 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (47.070 m, -25.177 m,
 0.000 m)



1.000 12

0.000 11

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
12	11	12	0.95	0.90

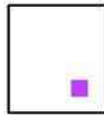
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ALL ON / Spill Out - House 14 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (48.212 m, -35.069 m,
 0.000 m)



1.000 5.99

0.000 5.80

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
5.90

E_{min} [lx]
5.80

E_{max} [lx]
5.99

u_0
0.98

E_{min} / E_{max}
0.97

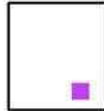
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ALL ON / Spill Out - House 15 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (49.630 m, -45.019 m,
 0.000 m)



1.000 3.79
0.000 3.84
m **3.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
3.82	3.79	3.84	0.99	0.99

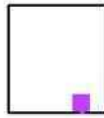
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ALL ON / Spill Out - House 16 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (50.533 m, -59.881 m,
 0.000 m)



1.000 2.02

0.000 2.13

m 7.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
2.08

E_{min} [lx]
2.02

E_{max} [lx]
2.13

u_0
0.97

E_{min} / E_{max}
0.95

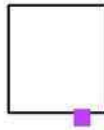
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ALL ON / Spill Out - House 17 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (52.332 m, -85.105 m,
 0.000 m)



1.000 0.99

0.000 1.20

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
1.09

E_{min} [lx]
0.99

E_{max} [lx]
1.20

u0
0.91

E_{min} / E_{max}
0.83

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ALL ON / Spill Out - House 18 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (41.800 m, -93.315 m,
 1.000 m)



1.000 3.72

0.000 3.08

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
3.40	3.08	3.72	0.91	0.83

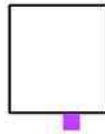
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ALL ON / Spill Out - House 19 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (32.340 m, -91.908 m,
 1.000 m)



1.000 4.50

0.000 3.73

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
4.12	3.73	4.50	0.91	0.83

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ALL ON / Spill Out - House 20 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (22.195 m, -90.405 m,
 1.000 m)



1.000 5.35

0.000 4.45

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
4.90	4.45	5.35	0.91	0.83

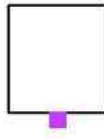
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ALL ON / Spill Out - House 21 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (11.209 m, -88.495 m,
 1.000 m)



1.000 6.15

0.000 5.09

m **4.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
5.62	5.09	6.15	0.91	0.83

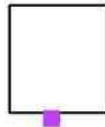
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ALL ON / Spill Out - House 22 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-1.251 m, -86.736 m,
 1.000 m)



1.000 6.36

0.000 5.31

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
5.84

E_{min} [lx]
5.31

E_{max} [lx]
6.36

$u0$
0.91

E_{min} / E_{max}
0.83

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ALL ON / Spill Out - House 23 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-11.460 m, -84.956 m,
 1.000 m)



1.000 6.14

0.000 5.12

m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
5.63

E_{min} [lx]
5.12

E_{max} [lx]
6.14

u_0
0.91

E_{min} / E_{max}
0.83

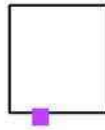
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ALL ON / Spill Out - House 24 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-20.416 m, -83.762 m,
 1.000 m)



1.000 5.59

0.000 4.67

m **3.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
5.13

E_{min} [lx]
4.67

E_{max} [lx]
5.59

u_0
0.91

E_{min} / E_{max}
0.83

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ALL ON / Spill Out - House 25 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-33.732 m, -81.720 m,
 1.000 m)



1.000 4.51

0.000 3.83

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
4.17

E_{min} [lx]
3.83

E_{max} [lx]
4.51

u_0
0.92

E_{min} / E_{max}
0.85

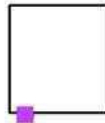
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ALL ON / Spill Out - House 26 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-46.390 m, -79.929 m,
 1.000 m)



1.000 3.39

0.000 2.95

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
3.17	2.95	3.39	0.93	0.87

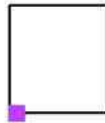
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ALL ON / Spill Out - House 27 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-60.720 m, -78.018 m,
 1.000 m)



1.000 2.38

0.000 2.17

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
2.27

E_{min} [lx]
2.17

E_{max} [lx]
2.38

u_0
0.95

E_{min} / E_{max}
0.91

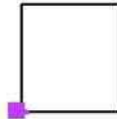
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ALL ON / Spill Out - House 28 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-81.388 m, -74.939 m,
 1.000 m)



1.000 1.56
0.000 1.47
 m **8.500**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
1.51	1.47	1.56	0.97	0.94

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ALL ON / Spill Out - House 29 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-94.733 m, -72.808 m,
 1.000 m)



1.000 0.97

0.000 0.91

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.94

E_{min} [lx]
0.91

E_{max} [lx]
0.97

u_0
0.97

E_{min} / E_{max}
0.94

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ALL ON / Spill Out - House 30 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-103.573 m, -69.333 m,
 1.000 m)



1.000 0.90

0.000 0.85

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.87

E_{min} [lx]
0.85

E_{max} [lx]
0.90

u0
0.97

E_{min} / E_{max}
0.95

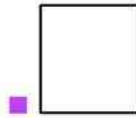
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ALL ON / Spill Out - House 31 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-110.486 m, -63.666 m,
 1.000 m)



1.000 0.80

0.000 0.77

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.78

E_{min} [lx]
0.77

E_{max} [lx]
0.80

u0
0.98

E_{min} / E_{max}
0.96

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ALL ON / Spill Out - House 32 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-116.576 m, -58.292 m,
 1.000 m)



1.000 0.69

0.000 0.67

m 3.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
0.68	0.67	0.69	0.98	0.97

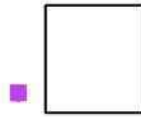
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ALL ON / Spill Out - House 33 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-118.474 m, -43.022 m,
 1.000 m)



1.000 0.49

0.000 0.49

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.49	0.49	0.49	1.00	0.99

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ALL ON / Spill Out - House 34 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-119.430 m, -23.558 m,
 1.000 m)



1.000 0.55

0.000 0.54

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.55

E_{min} [lx]
0.54

E_{max} [lx]
0.55

$u0$
1.00

E_{min} / E_{max}
1.00

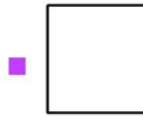
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ALL ON / Spill Out - House 35 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-124.229 m, 2.372 m,
 1.000 m)



1.000 0.52

0.000 0.54

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.53

E_{min} [lx]
0.52

E_{max} [lx]
0.54

$u0$
0.99

E_{min} / E_{max}
0.97

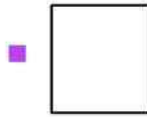
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ALL ON / Spill Out - House 36 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-130.952 m, 24.058 m,
 1.000 m)



1.000 0.42

0.000 0.44

m **5.000**

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.43

E_{min} [lx]
0.42

E_{max} [lx]
0.44

$u0$
0.98

E_{min} / E_{max}
0.96

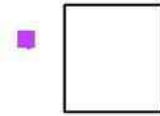
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ALL ON / Spill Out - House 37 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-138.256 m, 47.354 m,
 1.000 m)



1.000 0.31

0.000 0.34

m 6.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]
0.32

E_{min} [lx]
0.31

E_{max} [lx]
0.34

u0
0.97

E_{min} / E_{max}
0.94

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ALL ON / Spill Out - House 38 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-146.347 m, 67.639 m,
 1.000 m)



1.000 0.23

0.000 0.25

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
0.24	0.23	0.25	0.96	0.92

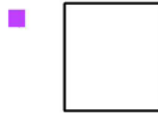
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ALL ON / Spill Out - House 39 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-153.651 m, 80.547 m,
 1.000 m)



1.000 0.19

0.000 0.20

m 5.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.20	0.19	0.20	0.96	0.92

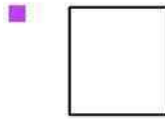
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ALL ON / Spill Out - House 40 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-161.880 m, 95.588 m,
 1.000 m)



1.000 0.15

0.000 0.16

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.15	0.15	0.16	0.96	0.92

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ALL ON / Spill Out - House 41 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-166.409 m,
 109.315 m, 1.000 m)



1.000 0.12

0.000 0.13

m 4.500

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
0.12	0.12	0.13	0.96	0.92

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ALL ON / Spill Out - House 42 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-170.956 m,
 121.501 m, 1.000 m)



1.000 0.10

0.000 0.11

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.10	0.10	0.11	0.96	0.92

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ALL ON / Spill Out - House 43 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point: (-172.747 m,
 133.801 m, 1.000 m)



1.000 0.09

0.000 0.10

m 5.000

Attention: The coordinates refer to the image above. Values in Lux.

Grid: 1 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}
0.10	0.09	0.10	0.96	0.92

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GR Calculation / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
5	GR Observer 5	6.204	-6.360	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
6	GR Observer 6	6.204	-4.240	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
7	GR Observer 7	6.204	-2.120	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
8	GR Observer 8	6.204	0.000	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
9	GR Observer 9	6.204	2.120	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
10	GR Observer 10	6.204	4.240	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
11	GR Observer 11	6.204	6.360	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
12	GR Observer 12	6.204	8.480	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
13	GR Observer 13	6.204	10.600	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
14	GR Observer 14	6.204	12.720	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
15	GR Observer 15	6.204	14.840	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
16	GR Observer 16	4.129	-14.751	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
17	GR Observer 17	4.133	-12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
18	GR Observer 18	4.133	-10.600	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
19	GR Observer 19	4.133	-8.480	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
20	GR Observer 20	4.133	-6.360	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
21	GR Observer 21	4.133	-4.240	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
22	GR Observer 22	4.133	-2.120	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
23	GR Observer 23	4.133	0.000	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
24	GR Observer 24	4.133	2.120	1.500	0.0	360.0	15.0	-2.0	49 ²⁾
25	GR Observer 25	4.133	4.240	1.500	0.0	360.0	15.0	-2.0	49 ²⁾
26	GR Observer 26	4.133	6.360	1.500	0.0	360.0	15.0	-2.0	49 ²⁾
27	GR Observer 27	4.133	8.480	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
28	GR Observer 28	4.133	10.600	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
29	GR Observer 29	4.133	12.720	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
30	GR Observer 30	4.133	14.840	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
31	GR Observer 31	2.057	-14.751	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
32	GR Observer 32	2.061	-12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
33	GR Observer 33	2.061	-10.600	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
34	GR Observer 34	2.061	-8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
35	GR Observer 35	2.061	-6.360	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
36	GR Observer 36	2.061	-4.240	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
37	GR Observer 37	2.061	-2.120	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
38	GR Observer 38	2.061	0.000	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
39	GR Observer 39	2.061	2.120	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
40	GR Observer 40	2.061	4.240	1.500	0.0	360.0	15.0	-2.0	49 ²⁾

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GR Calculation / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
41	GR Observer 41	2.061	6.360	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
42	GR Observer 42	2.061	8.480	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
43	GR Observer 43	2.061	10.600	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
44	GR Observer 44	2.061	12.720	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
45	GR Observer 45	2.061	14.840	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
46	GR Observer 46	-0.014	-14.751	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
47	GR Observer 47	-0.010	-12.720	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
48	GR Observer 48	-0.010	-10.600	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
49	GR Observer 49	-0.010	-8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
50	GR Observer 50	-0.010	-6.360	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
51	GR Observer 51	-0.010	-4.240	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
52	GR Observer 52	-0.010	-2.120	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
53	GR Observer 53	-0.010	0.000	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
54	GR Observer 54	-0.010	2.120	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
55	GR Observer 55	-0.010	4.240	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
56	GR Observer 56	-0.010	6.360	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
57	GR Observer 57	-0.010	8.480	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
58	GR Observer 58	-0.010	10.600	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
59	GR Observer 59	-0.010	12.720	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
60	GR Observer 60	-0.010	14.840	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
61	GR Observer 61	-2.085	-14.751	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
62	GR Observer 62	-2.081	-12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
63	GR Observer 63	-2.081	-10.600	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
64	GR Observer 64	-2.081	-8.480	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
65	GR Observer 65	-2.081	-6.360	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
66	GR Observer 66	-2.081	-4.240	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
67	GR Observer 67	-2.081	-2.120	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
68	GR Observer 68	-2.081	0.000	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
69	GR Observer 69	-2.081	2.120	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
70	GR Observer 70	-2.081	4.240	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
71	GR Observer 71	-2.081	6.360	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
72	GR Observer 72	-2.081	8.480	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
73	GR Observer 73	-2.081	10.600	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
74	GR Observer 74	-2.081	12.720	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
75	GR Observer 75	-2.081	14.840	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
76	GR Observer 76	-4.157	-14.751	1.500	0.0	360.0	15.0	-2.0	37 ²⁾

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No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
77	GR Observer 77	-4.153	-12.720	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
78	GR Observer 78	-4.153	-10.600	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
79	GR Observer 79	-4.153	-8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
80	GR Observer 80	-4.153	-6.360	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
81	GR Observer 81	-4.153	-4.240	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
82	GR Observer 82	-4.153	-2.120	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
83	GR Observer 83	-4.153	0.000	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
84	GR Observer 84	-4.153	2.120	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
85	GR Observer 85	-4.153	4.240	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
86	GR Observer 86	-4.153	6.360	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
87	GR Observer 87	-4.153	8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
88	GR Observer 88	-4.153	10.600	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
89	GR Observer 89	-4.153	12.720	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
90	GR Observer 90	-4.153	14.840	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
91	GR Observer 91	-6.228	-14.751	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
92	GR Observer 92	-6.224	-12.720	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
93	GR Observer 93	-6.224	-10.600	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
94	GR Observer 94	-6.224	-8.480	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
95	GR Observer 95	-6.224	-6.360	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
96	GR Observer 96	-6.224	-4.240	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
97	GR Observer 97	-6.224	4.240	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
98	GR Observer 98	-6.224	6.360	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
99	GR Observer 99	-6.224	8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
100	GR Observer 100	-6.224	10.600	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
101	GR Observer 101	-6.224	12.720	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
102	GR Observer 102	-6.224	14.840	1.500	0.0	360.0	15.0	-2.0	32 ²⁾
103	GR Observer 103	20.784	-14.840	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
104	GR Observer 104	20.784	-12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
105	GR Observer 105	20.784	-10.600	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
106	GR Observer 106	20.784	-8.480	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
107	GR Observer 107	20.784	-6.360	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
108	GR Observer 108	20.784	-4.240	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
109	GR Observer 109	20.784	-2.120	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
110	GR Observer 110	20.784	0.000	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
111	GR Observer 111	20.784	2.120	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
112	GR Observer 112	20.784	4.240	1.500	0.0	360.0	15.0	-2.0	48 ²⁾

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GR Calculation / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
113	GR Observer 113	20.784	6.360	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
114	GR Observer 114	20.784	8.480	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
115	GR Observer 115	20.784	10.600	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
116	GR Observer 116	20.784	12.720	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
117	GR Observer 117	20.784	14.840	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
118	GR Observer 118	18.713	-14.840	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
119	GR Observer 119	18.713	-12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
120	GR Observer 120	18.713	-10.600	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
121	GR Observer 121	18.713	-8.480	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
122	GR Observer 122	18.713	-6.360	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
123	GR Observer 123	18.713	-4.240	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
124	GR Observer 124	18.713	-2.120	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
125	GR Observer 125	18.713	0.000	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
126	GR Observer 126	18.713	2.120	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
127	GR Observer 127	18.713	4.240	1.500	0.0	360.0	15.0	-2.0	49 ²⁾
128	GR Observer 128	18.713	6.360	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
129	GR Observer 129	18.713	8.480	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
130	GR Observer 130	18.713	10.600	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
131	GR Observer 131	18.713	12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
132	GR Observer 132	18.713	14.840	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
133	GR Observer 133	16.641	-14.840	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
134	GR Observer 134	16.641	-12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
135	GR Observer 135	16.641	-10.600	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
136	GR Observer 136	16.641	-8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
137	GR Observer 137	16.641	-6.360	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
138	GR Observer 138	16.641	-4.240	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
139	GR Observer 139	16.641	-2.120	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
140	GR Observer 140	16.641	0.000	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
141	GR Observer 141	16.641	2.120	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
142	GR Observer 142	16.641	4.240	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
143	GR Observer 143	16.641	6.360	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
144	GR Observer 144	16.641	8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
145	GR Observer 145	16.641	10.600	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
146	GR Observer 146	16.641	12.720	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
147	GR Observer 147	16.641	14.840	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
148	GR Observer 148	14.570	-14.840	1.500	0.0	360.0	15.0	-2.0	38 ²⁾

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GR Calculation / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
149	GR Observer 149	14.570	-12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
150	GR Observer 150	14.570	-10.600	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
151	GR Observer 151	14.570	-8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
152	GR Observer 152	14.570	-6.360	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
153	GR Observer 153	14.570	-4.240	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
154	GR Observer 154	14.570	-2.120	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
155	GR Observer 155	14.570	0.000	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
156	GR Observer 156	14.570	2.120	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
157	GR Observer 157	14.570	4.240	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
158	GR Observer 158	14.570	6.360	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
159	GR Observer 159	14.570	8.480	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
160	GR Observer 160	14.570	10.600	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
161	GR Observer 161	14.570	12.720	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
162	GR Observer 162	14.570	14.840	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
163	GR Observer 163	12.499	-14.840	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
164	GR Observer 164	12.499	-12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
165	GR Observer 165	12.499	-10.600	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
166	GR Observer 166	12.499	-8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
167	GR Observer 167	12.499	-6.360	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
168	GR Observer 168	12.499	-4.240	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
169	GR Observer 169	12.499	-2.120	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
170	GR Observer 170	12.499	0.000	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
171	GR Observer 171	12.499	2.120	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
172	GR Observer 172	12.499	4.240	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
173	GR Observer 173	12.499	6.360	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
174	GR Observer 174	12.499	8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
175	GR Observer 175	12.499	10.600	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
176	GR Observer 176	12.499	12.720	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
177	GR Observer 177	12.499	14.840	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
178	GR Observer 178	10.427	-14.840	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
179	GR Observer 179	10.427	-12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
180	GR Observer 180	10.427	-10.600	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
181	GR Observer 181	10.427	-8.480	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
182	GR Observer 182	10.427	-6.360	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
183	GR Observer 183	10.427	-4.240	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
184	GR Observer 184	10.427	-2.120	1.500	0.0	360.0	15.0	-2.0	47 ²⁾

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GR Calculation / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
185	GR Observer 185	10.427	0.000	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
186	GR Observer 186	10.427	2.120	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
187	GR Observer 187	10.427	4.240	1.500	0.0	360.0	15.0	-2.0	49 ²⁾
188	GR Observer 188	10.427	6.360	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
189	GR Observer 189	10.427	8.480	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
190	GR Observer 190	10.427	10.600	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
191	GR Observer 191	10.427	12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
192	GR Observer 192	10.427	14.840	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
193	GR Observer 193	8.356	-14.840	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
194	GR Observer 194	8.356	-12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
195	GR Observer 195	8.356	-10.600	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
196	GR Observer 196	8.356	-8.480	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
197	GR Observer 197	8.356	-6.360	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
198	GR Observer 198	8.356	-4.240	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
199	GR Observer 199	8.356	-2.120	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
200	GR Observer 200	8.356	0.000	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
201	GR Observer 201	8.356	2.120	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
202	GR Observer 202	8.356	4.240	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
203	GR Observer 203	8.356	6.360	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
204	GR Observer 204	8.356	8.480	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
205	GR Observer 205	8.356	10.600	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
206	GR Observer 206	8.356	12.720	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
207	GR Observer 207	8.356	14.840	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
208	GR Observer 208	35.411	-14.707	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
209	GR Observer 209	35.394	-12.720	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
210	GR Observer 210	35.394	-10.600	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
211	GR Observer 211	35.394	-8.480	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
212	GR Observer 212	35.394	-6.360	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
213	GR Observer 213	35.394	-4.240	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
214	GR Observer 214	35.394	4.240	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
215	GR Observer 215	35.394	6.360	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
216	GR Observer 216	35.394	8.480	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
217	GR Observer 217	35.394	10.600	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
218	GR Observer 218	35.394	12.720	1.500	0.0	360.0	15.0	-2.0	33 ²⁾
219	GR Observer 219	35.394	14.840	1.500	0.0	360.0	15.0	-2.0	32 ²⁾
220	GR Observer 220	33.340	-14.707	1.500	0.0	360.0	15.0	-2.0	36 ²⁾

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GR Calculation / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
221	GR Observer 221	33.323	-12.720	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
222	GR Observer 222	33.323	-10.600	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
223	GR Observer 223	33.323	-8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
224	GR Observer 224	33.323	-6.360	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
225	GR Observer 225	33.323	-4.240	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
226	GR Observer 226	33.323	-2.120	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
227	GR Observer 227	33.323	0.000	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
228	GR Observer 228	33.323	2.120	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
229	GR Observer 229	33.323	4.240	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
230	GR Observer 230	33.323	6.360	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
231	GR Observer 231	33.323	8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
232	GR Observer 232	33.323	10.600	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
233	GR Observer 233	33.323	12.720	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
234	GR Observer 234	33.323	14.840	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
235	GR Observer 235	31.268	-14.707	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
236	GR Observer 236	31.251	-12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
237	GR Observer 237	31.251	-10.600	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
238	GR Observer 238	31.251	-8.480	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
239	GR Observer 239	31.251	-6.360	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
240	GR Observer 240	31.251	-4.240	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
241	GR Observer 241	31.251	-2.120	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
242	GR Observer 242	31.251	0.000	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
243	GR Observer 243	31.251	2.120	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
244	GR Observer 244	31.251	4.240	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
245	GR Observer 245	31.251	6.360	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
246	GR Observer 246	31.251	8.480	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
247	GR Observer 247	31.251	10.600	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
248	GR Observer 248	31.251	12.720	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
249	GR Observer 249	31.251	14.840	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
250	GR Observer 250	29.197	-14.707	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
251	GR Observer 251	29.180	-12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
252	GR Observer 252	29.180	-10.600	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
253	GR Observer 253	29.180	-8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
254	GR Observer 254	29.180	-6.360	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
255	GR Observer 255	29.180	-4.240	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
256	GR Observer 256	29.180	-2.120	1.500	0.0	360.0	15.0	-2.0	45 ²⁾

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GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
257	GR Observer 257	29.180	0.000	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
258	GR Observer 258	29.180	2.120	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
259	GR Observer 259	29.180	4.240	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
260	GR Observer 260	29.180	6.360	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
261	GR Observer 261	29.180	8.480	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
262	GR Observer 262	29.180	10.600	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
263	GR Observer 263	29.180	12.720	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
264	GR Observer 264	29.180	14.840	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
265	GR Observer 265	27.125	-14.707	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
266	GR Observer 266	27.109	-12.720	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
267	GR Observer 267	27.109	-10.600	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
268	GR Observer 268	27.109	-8.480	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
269	GR Observer 269	27.109	-6.360	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
270	GR Observer 270	27.109	-4.240	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
271	GR Observer 271	27.109	-2.120	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
272	GR Observer 272	27.109	0.000	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
273	GR Observer 273	27.109	2.120	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
274	GR Observer 274	27.109	4.240	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
275	GR Observer 275	27.109	6.360	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
276	GR Observer 276	27.109	8.480	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
277	GR Observer 277	27.109	10.600	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
278	GR Observer 278	27.109	12.720	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
279	GR Observer 279	27.109	14.840	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
280	GR Observer 280	25.054	-14.707	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
281	GR Observer 281	25.037	-12.720	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
282	GR Observer 282	25.037	-10.600	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
283	GR Observer 283	25.037	-8.480	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
284	GR Observer 284	25.037	-6.360	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
285	GR Observer 285	25.037	-4.240	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
286	GR Observer 286	25.037	-2.120	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
287	GR Observer 287	25.037	0.000	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
288	GR Observer 288	25.037	2.120	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
289	GR Observer 289	25.037	4.240	1.500	0.0	360.0	15.0	-2.0	49 ²⁾
290	GR Observer 290	25.037	6.360	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
291	GR Observer 291	25.037	8.480	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
292	GR Observer 292	25.037	10.600	1.500	0.0	360.0	15.0	-2.0	44 ²⁾

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No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
293	GR Observer 293	25.037	12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
294	GR Observer 294	25.037	14.840	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
295	GR Observer 295	22.982	-14.707	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
296	GR Observer 296	22.966	-12.720	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
297	GR Observer 297	22.966	-10.600	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
298	GR Observer 298	22.966	-8.480	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
299	GR Observer 299	22.966	-6.360	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
300	GR Observer 300	22.966	-4.240	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
301	GR Observer 301	22.966	-2.120	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
302	GR Observer 302	22.966	0.000	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
303	GR Observer 303	22.966	2.120	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
304	GR Observer 304	22.966	4.240	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
305	GR Observer 305	22.966	6.360	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
306	GR Observer 306	22.966	8.480	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
307	GR Observer 307	22.966	10.600	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
308	GR Observer 308	22.966	12.720	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
309	GR Observer 309	22.966	14.840	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
310	GR Observer 310	25.523	25.898	1.500	0.0	360.0	15.0	-2.0	33 ²⁾
311	GR Observer 311	25.913	27.982	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
312	GR Observer 312	26.303	30.065	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
313	GR Observer 313	26.693	32.149	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
314	GR Observer 314	27.083	34.233	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
315	GR Observer 315	27.473	36.317	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
316	GR Observer 316	29.033	44.652	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
317	GR Observer 317	29.423	46.736	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
318	GR Observer 318	29.813	48.820	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
319	GR Observer 319	30.203	50.904	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
320	GR Observer 320	30.593	52.987	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
321	GR Observer 321	30.983	55.071	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
322	GR Observer 322	23.417	26.292	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
323	GR Observer 323	23.807	28.376	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
324	GR Observer 324	24.197	30.460	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
325	GR Observer 325	24.587	32.543	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
326	GR Observer 326	24.977	34.627	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
327	GR Observer 327	25.367	36.711	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
328	GR Observer 328	25.757	38.795	1.500	0.0	360.0	15.0	-2.0	46 ²⁾

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GR Calculation / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
329	GR Observer 329	26.147	40.879	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
330	GR Observer 330	26.537	42.962	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
331	GR Observer 331	26.927	45.046	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
332	GR Observer 332	27.317	47.130	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
333	GR Observer 333	27.706	49.214	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
334	GR Observer 334	28.096	51.298	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
335	GR Observer 335	28.486	53.382	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
336	GR Observer 336	28.876	55.465	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
337	GR Observer 337	21.310	26.686	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
338	GR Observer 338	21.700	28.770	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
339	GR Observer 339	22.090	30.854	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
340	GR Observer 340	22.480	32.938	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
341	GR Observer 341	22.870	35.021	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
342	GR Observer 342	23.260	37.105	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
343	GR Observer 343	23.650	39.189	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
344	GR Observer 344	24.040	41.273	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
345	GR Observer 345	24.430	43.357	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
346	GR Observer 346	24.820	45.440	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
347	GR Observer 347	25.210	47.524	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
348	GR Observer 348	25.600	49.608	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
349	GR Observer 349	25.990	51.692	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
350	GR Observer 350	26.380	53.776	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
351	GR Observer 351	26.770	55.860	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
352	GR Observer 352	19.204	27.080	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
353	GR Observer 353	19.594	29.164	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
354	GR Observer 354	19.984	31.248	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
355	GR Observer 355	20.374	33.332	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
356	GR Observer 356	20.764	35.416	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
357	GR Observer 357	21.154	37.499	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
358	GR Observer 358	21.544	39.583	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
359	GR Observer 359	21.934	41.667	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
360	GR Observer 360	22.324	43.751	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
361	GR Observer 361	22.714	45.835	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
362	GR Observer 362	23.104	47.918	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
363	GR Observer 363	23.494	50.002	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
364	GR Observer 364	23.884	52.086	1.500	0.0	360.0	15.0	-2.0	39 ²⁾

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GR Calculation / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
365	GR Observer 365	24.274	54.170	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
366	GR Observer 366	24.664	56.254	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
367	GR Observer 367	17.098	27.474	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
368	GR Observer 368	17.488	29.558	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
369	GR Observer 369	17.878	31.642	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
370	GR Observer 370	18.268	33.726	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
371	GR Observer 371	18.658	35.810	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
372	GR Observer 372	19.048	37.894	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
373	GR Observer 373	19.438	39.977	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
374	GR Observer 374	19.828	42.061	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
375	GR Observer 375	20.218	44.145	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
376	GR Observer 376	20.608	46.229	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
377	GR Observer 377	20.998	48.313	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
378	GR Observer 378	21.388	50.396	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
379	GR Observer 379	21.778	52.480	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
380	GR Observer 380	22.168	54.564	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
381	GR Observer 381	22.558	56.648	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
382	GR Observer 382	14.992	27.869	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
383	GR Observer 383	15.382	29.952	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
384	GR Observer 384	15.772	32.036	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
385	GR Observer 385	16.162	34.120	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
386	GR Observer 386	16.551	36.204	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
387	GR Observer 387	16.941	38.288	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
388	GR Observer 388	17.331	40.372	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
389	GR Observer 389	17.721	42.455	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
390	GR Observer 390	18.111	44.539	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
391	GR Observer 391	18.501	46.623	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
392	GR Observer 392	18.891	48.707	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
393	GR Observer 393	19.281	50.791	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
394	GR Observer 394	19.671	52.874	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
395	GR Observer 395	20.061	54.958	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
396	GR Observer 396	20.451	57.042	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
397	GR Observer 397	12.885	28.263	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
398	GR Observer 398	13.275	30.347	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
399	GR Observer 399	13.665	32.430	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
400	GR Observer 400	14.055	34.514	1.500	0.0	360.0	15.0	-2.0	47 ²⁾

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GR Calculation / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
401	GR Observer 401	14.445	36.598	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
402	GR Observer 402	14.835	38.682	1.500	0.0	360.0	15.0	-2.0	49 ²⁾
403	GR Observer 403	15.225	40.766	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
404	GR Observer 404	15.615	42.850	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
405	GR Observer 405	16.005	44.933	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
406	GR Observer 406	16.395	47.017	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
407	GR Observer 407	16.785	49.101	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
408	GR Observer 408	17.175	51.185	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
409	GR Observer 409	17.565	53.269	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
410	GR Observer 410	17.955	55.352	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
411	GR Observer 411	18.345	57.436	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
412	GR Observer 412	10.587	28.667	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
413	GR Observer 413	10.977	30.751	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
414	GR Observer 414	11.367	32.834	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
415	GR Observer 415	11.757	34.918	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
416	GR Observer 416	12.147	37.002	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
417	GR Observer 417	12.537	39.086	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
418	GR Observer 418	12.927	41.170	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
419	GR Observer 419	13.317	43.253	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
420	GR Observer 420	13.707	45.337	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
421	GR Observer 421	14.097	47.421	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
422	GR Observer 422	14.487	49.505	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
423	GR Observer 423	14.877	51.589	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
424	GR Observer 424	15.267	53.673	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
425	GR Observer 425	15.657	55.756	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
426	GR Observer 426	16.047	57.840	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
427	GR Observer 427	8.481	29.061	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
428	GR Observer 428	8.871	31.145	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
429	GR Observer 429	9.261	33.229	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
430	GR Observer 430	9.651	35.312	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
431	GR Observer 431	10.041	37.396	1.500	0.0	360.0	15.0	-2.0	49 ²⁾
432	GR Observer 432	10.431	39.480	1.500	0.0	360.0	15.0	-2.0	49 ²⁾
433	GR Observer 433	10.821	41.564	1.500	0.0	360.0	15.0	-2.0	49 ²⁾
434	GR Observer 434	11.211	43.648	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
435	GR Observer 435	11.601	45.731	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
436	GR Observer 436	11.991	47.815	1.500	0.0	360.0	15.0	-2.0	47 ²⁾

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GR Calculation / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Start	Viewing sector [°]			Max
		X	Y	Z		End	Increment	Slope angle	
437	GR Observer 437	12.381	49.899	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
438	GR Observer 438	12.770	51.983	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
439	GR Observer 439	13.160	54.067	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
440	GR Observer 440	13.550	56.151	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
441	GR Observer 441	13.940	58.234	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
442	GR Observer 442	6.374	29.455	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
443	GR Observer 443	6.764	31.539	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
444	GR Observer 444	7.154	33.623	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
445	GR Observer 445	7.544	35.707	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
446	GR Observer 446	7.934	37.790	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
447	GR Observer 447	8.324	39.874	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
448	GR Observer 448	8.714	41.958	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
449	GR Observer 449	9.104	44.042	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
450	GR Observer 450	9.494	46.126	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
451	GR Observer 451	9.884	48.209	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
452	GR Observer 452	10.274	50.293	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
453	GR Observer 453	10.664	52.377	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
454	GR Observer 454	11.054	54.461	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
455	GR Observer 455	11.444	56.545	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
456	GR Observer 456	11.834	58.629	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
457	GR Observer 457	4.268	29.849	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
458	GR Observer 458	4.658	31.933	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
459	GR Observer 459	5.048	34.017	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
460	GR Observer 460	5.438	36.101	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
461	GR Observer 461	5.828	38.185	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
462	GR Observer 462	6.218	40.268	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
463	GR Observer 463	6.608	42.352	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
464	GR Observer 464	6.998	44.436	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
465	GR Observer 465	7.388	46.520	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
466	GR Observer 466	7.778	48.604	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
467	GR Observer 467	8.168	50.687	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
468	GR Observer 468	8.558	52.771	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
469	GR Observer 469	8.948	54.855	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
470	GR Observer 470	9.338	56.939	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
471	GR Observer 471	9.728	59.023	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
472	GR Observer 472	2.162	30.243	1.500	0.0	360.0	15.0	-2.0	38 ²⁾

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GR Calculation / GR Observer (Results Overview)

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
473	GR Observer 473	2.552	32.327	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
474	GR Observer 474	2.942	34.411	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
475	GR Observer 475	3.332	36.495	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
476	GR Observer 476	3.722	38.579	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
477	GR Observer 477	4.112	40.663	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
478	GR Observer 478	4.502	42.746	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
479	GR Observer 479	4.892	44.830	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
480	GR Observer 480	5.282	46.914	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
481	GR Observer 481	5.672	48.998	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
482	GR Observer 482	6.062	51.082	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
483	GR Observer 483	6.452	53.165	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
484	GR Observer 484	6.842	55.249	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
485	GR Observer 485	7.232	57.333	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
486	GR Observer 486	7.622	59.417	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
487	GR Observer 487	0.056	30.638	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
488	GR Observer 488	0.446	32.721	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
489	GR Observer 489	0.836	34.805	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
490	GR Observer 490	1.226	36.889	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
491	GR Observer 491	1.615	38.973	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
492	GR Observer 492	2.005	41.057	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
493	GR Observer 493	2.395	43.141	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
494	GR Observer 494	2.785	45.224	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
495	GR Observer 495	3.175	47.308	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
496	GR Observer 496	3.565	49.392	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
497	GR Observer 497	3.955	51.476	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
498	GR Observer 498	4.345	53.560	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
499	GR Observer 499	4.735	55.643	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
500	GR Observer 500	5.125	57.727	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
501	GR Observer 501	5.515	59.811	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
502	GR Observer 502	-2.051	31.032	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
503	GR Observer 503	-1.661	33.116	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
504	GR Observer 504	-1.271	35.199	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
505	GR Observer 505	-0.881	37.283	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
506	GR Observer 506	-0.491	39.367	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
507	GR Observer 507	-0.101	41.451	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
508	GR Observer 508	0.289	43.535	1.500	0.0	360.0	15.0	-2.0	48 ²⁾

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		X	Y	Z	Start	End	Increment	Slope angle	
509	GR Observer 509	0.679	45.619	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
510	GR Observer 510	1.069	47.702	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
511	GR Observer 511	1.459	49.786	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
512	GR Observer 512	1.849	51.870	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
513	GR Observer 513	2.239	53.954	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
514	GR Observer 514	2.629	56.038	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
515	GR Observer 515	3.019	58.121	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
516	GR Observer 516	3.409	60.205	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
517	GR Observer 517	-4.330	31.420	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
518	GR Observer 518	-3.940	33.504	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
519	GR Observer 519	-3.550	35.587	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
520	GR Observer 520	-3.160	37.671	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
521	GR Observer 521	-2.770	39.755	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
522	GR Observer 522	-2.380	41.839	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
523	GR Observer 523	-1.990	43.923	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
524	GR Observer 524	-1.600	46.006	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
525	GR Observer 525	-1.210	48.090	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
526	GR Observer 526	-0.820	50.174	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
527	GR Observer 527	-0.430	52.258	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
528	GR Observer 528	-0.040	54.342	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
529	GR Observer 529	0.350	56.426	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
530	GR Observer 530	0.740	58.509	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
531	GR Observer 531	1.130	60.593	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
532	GR Observer 532	-6.436	31.814	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
533	GR Observer 533	-6.046	33.898	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
534	GR Observer 534	-5.656	35.982	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
535	GR Observer 535	-5.266	38.065	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
536	GR Observer 536	-4.876	40.149	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
537	GR Observer 537	-4.486	42.233	1.500	0.0	360.0	15.0	-2.0	49 ²⁾
538	GR Observer 538	-4.096	44.317	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
539	GR Observer 539	-3.706	46.401	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
540	GR Observer 540	-3.316	48.484	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
541	GR Observer 541	-2.926	50.568	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
542	GR Observer 542	-2.536	52.652	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
543	GR Observer 543	-2.147	54.736	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
544	GR Observer 544	-1.757	56.820	1.500	0.0	360.0	15.0	-2.0	42 ²⁾

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		X	Y	Z	Start	End	Increment	Slope angle	
545	GR Observer 545	-1.367	58.904	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
546	GR Observer 546	-0.977	60.987	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
547	GR Observer 547	-8.543	32.208	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
548	GR Observer 548	-8.153	34.292	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
549	GR Observer 549	-7.763	36.376	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
550	GR Observer 550	-7.373	38.460	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
551	GR Observer 551	-6.983	40.543	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
552	GR Observer 552	-6.593	42.627	1.500	0.0	360.0	15.0	-2.0	48 ²⁾
553	GR Observer 553	-6.203	44.711	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
554	GR Observer 554	-5.813	46.795	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
555	GR Observer 555	-5.423	48.879	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
556	GR Observer 556	-5.033	50.962	1.500	0.0	360.0	15.0	-2.0	47 ²⁾
557	GR Observer 557	-4.643	53.046	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
558	GR Observer 558	-4.253	55.130	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
559	GR Observer 559	-3.863	57.214	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
560	GR Observer 560	-3.473	59.298	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
561	GR Observer 561	-3.083	61.382	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
562	GR Observer 562	-10.649	32.602	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
563	GR Observer 563	-10.259	34.686	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
564	GR Observer 564	-9.869	36.770	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
565	GR Observer 565	-9.479	38.854	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
566	GR Observer 566	-9.089	40.938	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
567	GR Observer 567	-8.699	43.021	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
568	GR Observer 568	-8.309	45.105	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
569	GR Observer 569	-7.919	47.189	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
570	GR Observer 570	-7.529	49.273	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
571	GR Observer 571	-7.139	51.357	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
572	GR Observer 572	-6.749	53.440	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
573	GR Observer 573	-6.359	55.524	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
574	GR Observer 574	-5.969	57.608	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
575	GR Observer 575	-5.579	59.692	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
576	GR Observer 576	-5.189	61.776	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
577	GR Observer 577	-12.755	32.996	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
578	GR Observer 578	-12.365	35.080	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
579	GR Observer 579	-11.975	37.164	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
580	GR Observer 580	-11.585	39.248	1.500	0.0	360.0	15.0	-2.0	39 ²⁾

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No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
581	GR Observer 581	-11.195	41.332	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
582	GR Observer 582	-10.805	43.416	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
583	GR Observer 583	-10.415	45.499	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
584	GR Observer 584	-10.025	47.583	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
585	GR Observer 585	-9.635	49.667	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
586	GR Observer 586	-9.245	51.751	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
587	GR Observer 587	-8.855	53.835	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
588	GR Observer 588	-8.465	55.918	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
589	GR Observer 589	-8.075	58.002	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
590	GR Observer 590	-7.685	60.086	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
591	GR Observer 591	-7.295	62.170	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
592	GR Observer 592	-14.861	33.391	1.500	0.0	360.0	15.0	-2.0	35 ²⁾
593	GR Observer 593	-14.471	35.474	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
594	GR Observer 594	-14.081	37.558	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
595	GR Observer 595	-13.691	39.642	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
596	GR Observer 596	-13.302	41.726	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
597	GR Observer 597	-12.912	43.810	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
598	GR Observer 598	-12.522	45.894	1.500	0.0	360.0	15.0	-2.0	44 ²⁾
599	GR Observer 599	-12.132	47.977	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
600	GR Observer 600	-11.742	50.061	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
601	GR Observer 601	-11.352	52.145	1.500	0.0	360.0	15.0	-2.0	46 ²⁾
602	GR Observer 602	-10.962	54.229	1.500	0.0	360.0	15.0	-2.0	45 ²⁾
603	GR Observer 603	-10.572	56.313	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
604	GR Observer 604	-10.182	58.396	1.500	0.0	360.0	15.0	-2.0	39 ²⁾
605	GR Observer 605	-9.792	60.480	1.500	0.0	360.0	15.0	-2.0	37 ²⁾
606	GR Observer 606	-9.402	62.564	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
607	GR Observer 607	-16.968	33.785	1.500	0.0	360.0	15.0	-2.0	33 ²⁾
608	GR Observer 608	-16.578	35.869	1.500	0.0	360.0	15.0	-2.0	34 ²⁾
609	GR Observer 609	-16.188	37.952	1.500	0.0	360.0	15.0	-2.0	38 ²⁾
610	GR Observer 610	-15.798	40.036	1.500	0.0	360.0	15.0	-2.0	41 ²⁾
611	GR Observer 611	-15.408	42.120	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
612	GR Observer 612	-15.018	44.204	1.500	0.0	360.0	15.0	-2.0	43 ²⁾
613	GR Observer 613	-13.458	52.539	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
614	GR Observer 614	-13.068	54.623	1.500	0.0	360.0	15.0	-2.0	42 ²⁾
615	GR Observer 615	-12.678	56.707	1.500	0.0	360.0	15.0	-2.0	40 ²⁾
616	GR Observer 616	-12.288	58.791	1.500	0.0	360.0	15.0	-2.0	38 ²⁾

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		X	Y	Z		End	Increment	Slope angle	
617	GR Observer 617	-11.898	60.874	1.500	0.0	360.0	15.0	-2.0	36 ²⁾
618	GR Observer 618	-11.508	62.958	1.500	0.0	360.0	15.0	-2.0	35 ²⁾

2) The calculated equivalent veil luminance of the environment is based on the assumption of a complete diffuse reflection behavior of the environment (acc. EN 12464-2).