



Date: 05.07.2021
Operator:

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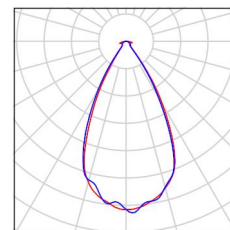
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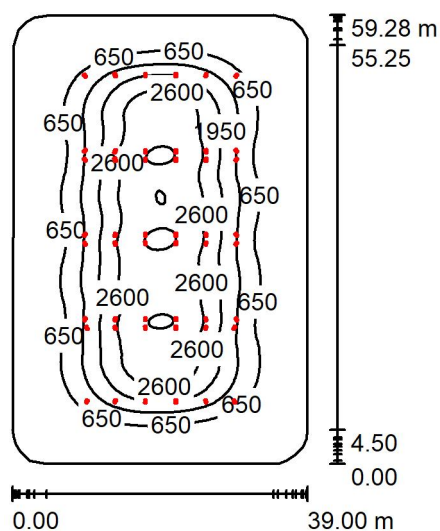
MIC & Vietnam / Luminaire parts list

48 Pieces MIC OPTOELECTRONIC CO.,LTD MFL-G480
Led flood light 60 degree beam angle
Article No.: MFL-G480
Luminous flux (Luminaire): 70423 lm
Luminous flux (Lamps): 70425 lm
Luminaire Wattage: 477.7 W
Luminaire classification according to CIE: 100
CIE flux code: 87 92 97 100 100
Fitting: 1 x 3030 (Correction Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.



Room 1 / Summary



Height of Room: 13.500 m, Mounting Height: 13.000 m, Light loss factor: 0.80

Values in Lux, Scale 1:1000

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	1199	119	3336	0.099
Floor	15	1196	123	3366	0.103
Ceiling	70	165	89	282	0.539
Walls (21)	50	189	122	283	/

Workplane:

Height: 0.850 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

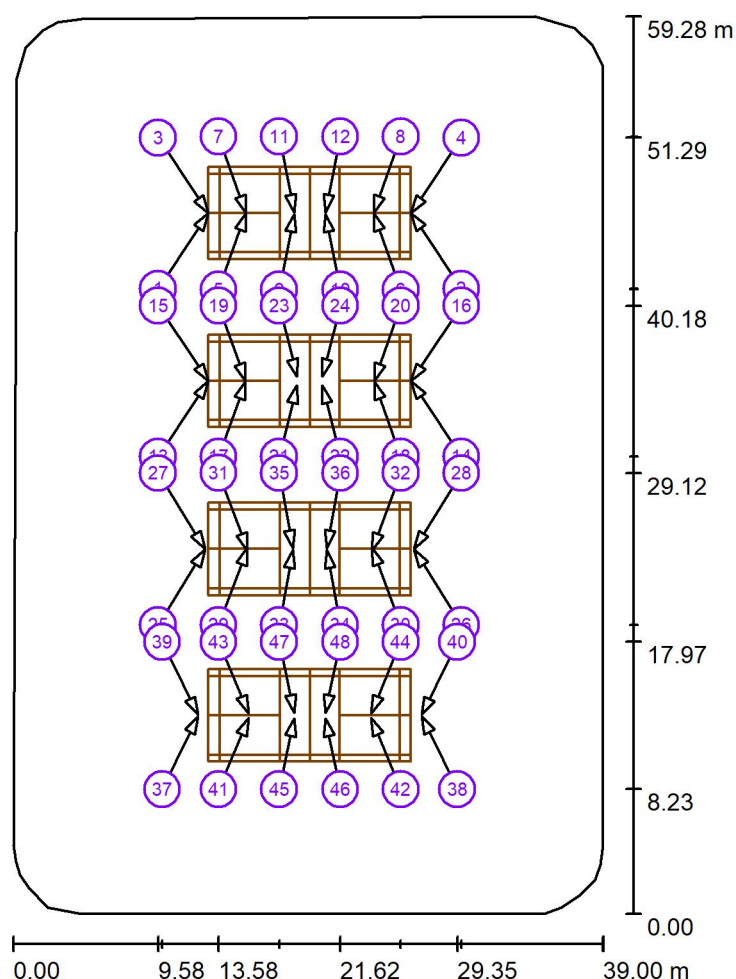
Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	48	MIC OPTOELECTRONIC CO.,LTD MFL-G480 Led flood light 60 degree beam angle (1.000)	70423	70425	477.7
Total:			3380297	Total: 3380400	22931.5

Specific connected load: $10.04 \text{ W/m}^2 = 0.84 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 2284.42 m^2)

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Room 1 / Sport Luminaires (Coordinates List)



Scale 1 : 500

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
MIC OPTOELECTRONIC CO.,LTD MFL-G480 Led flood light 60 degree beam angle	1	9.582	41.313	13.000	12.900	46.300	0.000	65.3	(C 90, G IMax)	/
MIC OPTOELECTRONIC CO.,LTD MFL-G480 Led flood light 60 degree beam angle	2	29.618	41.313	13.000	26.300	46.300	0.000	65.3	(C 90, G IMax)	/
MIC OPTOELECTRONIC CO.,LTD MFL-G480 Led flood light 60 degree beam angle	3	9.582	51.287	13.000	12.900	46.300	0.000	65.3	(C 90, G IMax)	/
MIC OPTOELECTRONIC CO.,LTD MFL-G480 Led flood light 60 degree beam angle	4	29.618	51.287	13.000	26.300	46.300	0.000	65.3	(C 90, G IMax)	/



Room 1 / Sport Luminaires (Coordinates List)

[illegible]

MFL-G480 Led flood light 60 degree beam angle MIC OPTOELECTRONIC CO.,LTD	28	29.618	29.121	13.000	26.512	24.110	0.000	65.6	(C 90, G IMax)	/
MFL-G480 Led flood light 60 degree beam angle MIC OPTOELECTRONIC CO.,LTD	29	13.582	19.077	13.000	15.490	24.194	0.000	67.2	(C 90, G IMax)	/
MFL-G480 Led flood light 60 degree beam angle MIC OPTOELECTRONIC CO.,LTD	30	25.618	19.077	13.000	23.710	24.194	0.000	67.2	(C 90, G IMax)	/
MFL-G480 Led flood light 60 degree beam angle MIC OPTOELECTRONIC CO.,LTD	31	13.582	29.123	13.000	15.490	24.006	0.000	67.2	(C 90, G IMax)	/
MFL-G480 Led flood light 60 degree beam angle MIC OPTOELECTRONIC CO.,LTD	32	25.618	29.123	13.000	23.710	24.006	0.000	67.2	(C 90, G IMax)	/
MFL-G480 Led flood light 60 degree beam angle MIC OPTOELECTRONIC CO.,LTD	33	17.582	19.079	13.000	18.465	24.021	0.000	68.9	(C 90, G IMax)	/
MFL-G480 Led flood light 60 degree beam angle MIC OPTOELECTRONIC CO.,LTD	34	21.618	19.079	13.000	20.735	24.021	0.000	68.9	(C 90, G IMax)	/
MFL-G480 Led flood light 60 degree beam angle MIC OPTOELECTRONIC CO.,LTD	35	17.582	29.121	13.000	18.465	24.179	0.000	68.9	(C 90, G IMax)	/
MFL-G480 Led flood light 60 degree beam angle MIC OPTOELECTRONIC CO.,LTD	36	21.618	29.121	13.000	20.735	24.179	0.000	68.9	(C 90, G IMax)	/
MFL-G480 Led flood light 60 degree beam angle MIC OPTOELECTRONIC CO.,LTD	37	9.849	8.231	13.000	12.214	13.067	0.000	67.5	(C 90, G IMax)	/
MFL-G480 Led flood light 60 degree beam angle MIC OPTOELECTRONIC CO.,LTD	38	29.351	8.231	13.000	26.986	13.067	0.000	67.5	(C 90, G IMax)	/
MFL-G480 Led flood light 60 degree beam angle MIC OPTOELECTRONIC CO.,LTD	39	9.849	17.969	13.000	12.214	13.133	0.000	67.5	(C 90, G IMax)	/
MFL-G480 Led flood light 60 degree beam angle MIC OPTOELECTRONIC CO.,LTD	40	29.351	17.969	13.000	26.986	13.133	0.000	67.5	(C 90, G IMax)	/

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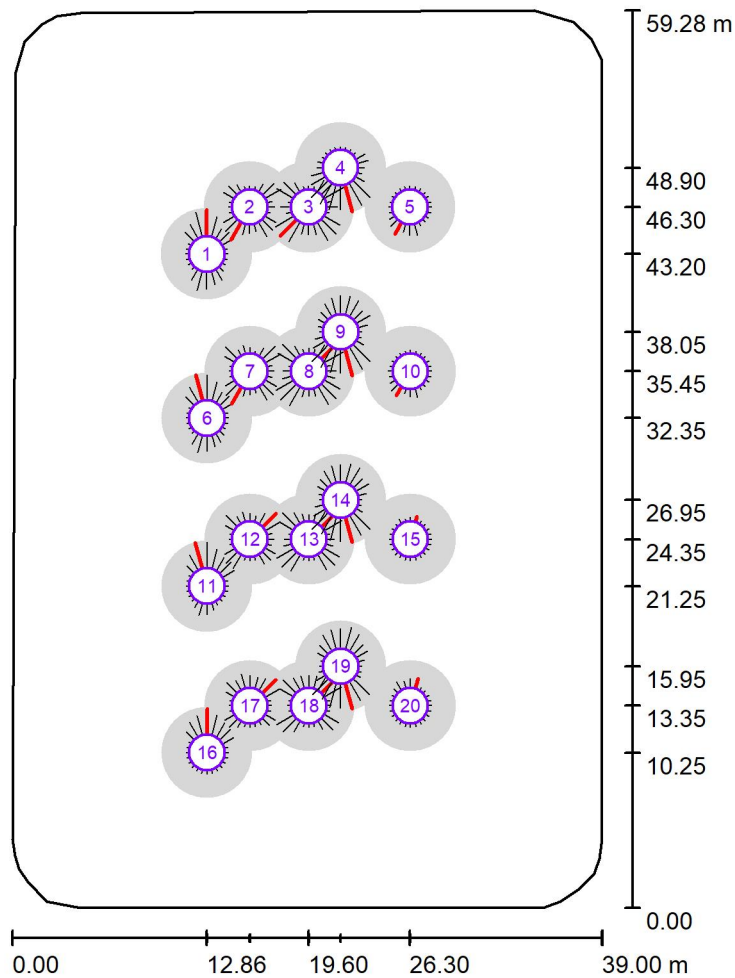
Room 1 / Sport Luminaires (Coordinates List)

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
MIC OPTOELECTRONIC CO.,LTD MFL-G480 Led flood light 60 degree beam angle	41	13.582	8.231	13.000	15.551	12.939	0.000	68.6	(C 90, G IMax)	/
MIC OPTOELECTRONIC CO.,LTD MFL-G480 Led flood light 60 degree beam angle	42	25.618	8.231	13.000	23.649	12.939	0.000	68.6	(C 90, G IMax)	/
MIC OPTOELECTRONIC CO.,LTD MFL-G480 Led flood light 60 degree beam angle	43	13.582	17.969	13.000	15.551	13.261	0.000	68.6	(C 90, G IMax)	/
MIC OPTOELECTRONIC CO.,LTD MFL-G480 Led flood light 60 degree beam angle	44	25.618	17.969	13.000	23.649	13.261	0.000	68.6	(C 90, G IMax)	/
MIC OPTOELECTRONIC CO.,LTD MFL-G480 Led flood light 60 degree beam angle	45	17.582	8.231	13.000	18.567	12.907	0.000	69.8	(C 90, G IMax)	/
MIC OPTOELECTRONIC CO.,LTD MFL-G480 Led flood light 60 degree beam angle	46	21.618	8.231	13.000	20.633	12.907	0.000	69.8	(C 90, G IMax)	/
MIC OPTOELECTRONIC CO.,LTD MFL-G480 Led flood light 60 degree beam angle	47	17.582	17.969	13.000	18.567	13.293	0.000	69.8	(C 90, G IMax)	/
MIC OPTOELECTRONIC CO.,LTD MFL-G480 Led flood light 60 degree beam angle	48	21.618	17.969	13.000	20.633	13.293	0.000	69.8	(C 90, G IMax)	/

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Room 1 / GR Observer (Results Overview)



Scale 1 : 500

GR Observerlist

No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
1	GR Observer 1	12.860	43.204	1.500	0.0	360.0	15.0	-2.0	21 ¹⁾
2	GR Observer 1	15.700	46.300	1.500	0.0	360.0	15.0	-2.0	18 ¹⁾
3	GR Observer 1	19.600	46.300	1.500	0.0	360.0	15.0	-2.0	19 ¹⁾
4	GR Observer 1	21.700	48.900	1.500	0.0	360.0	15.0	-2.0	21 ¹⁾

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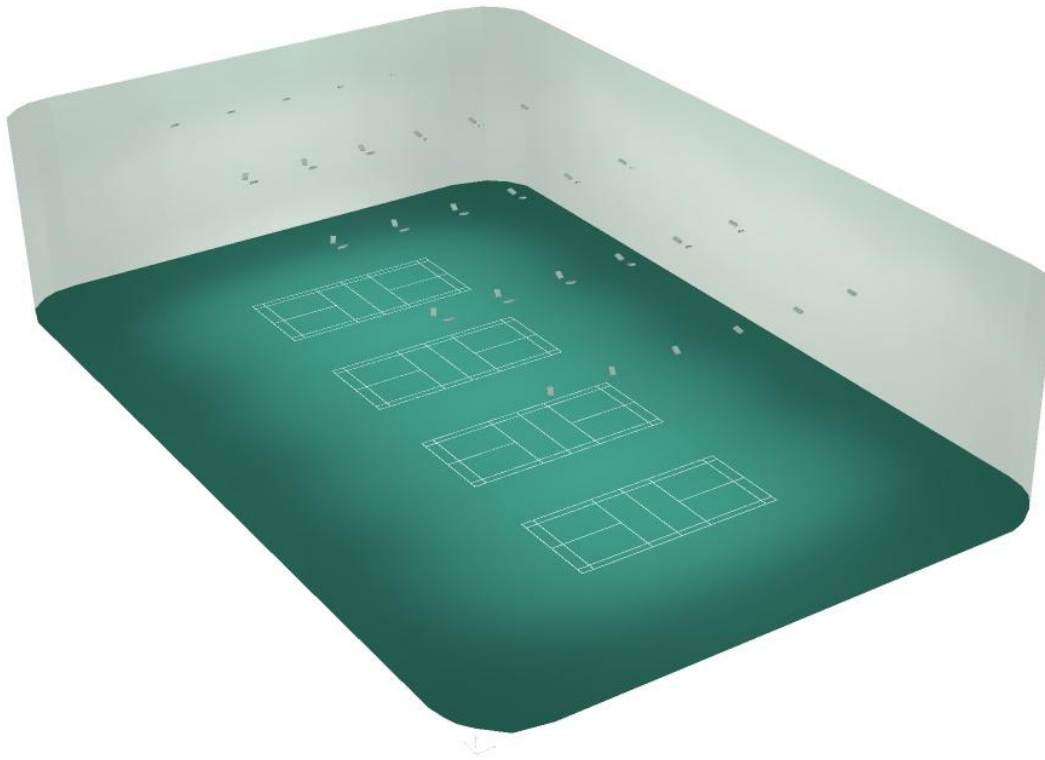
Room 1 / GR Observer (Results Overview)

GR Observerlist

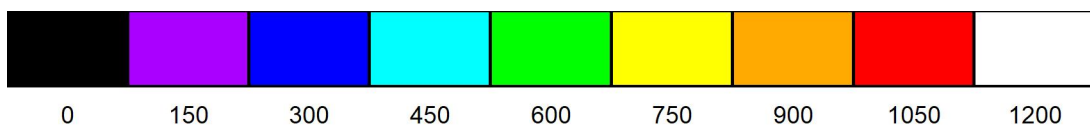
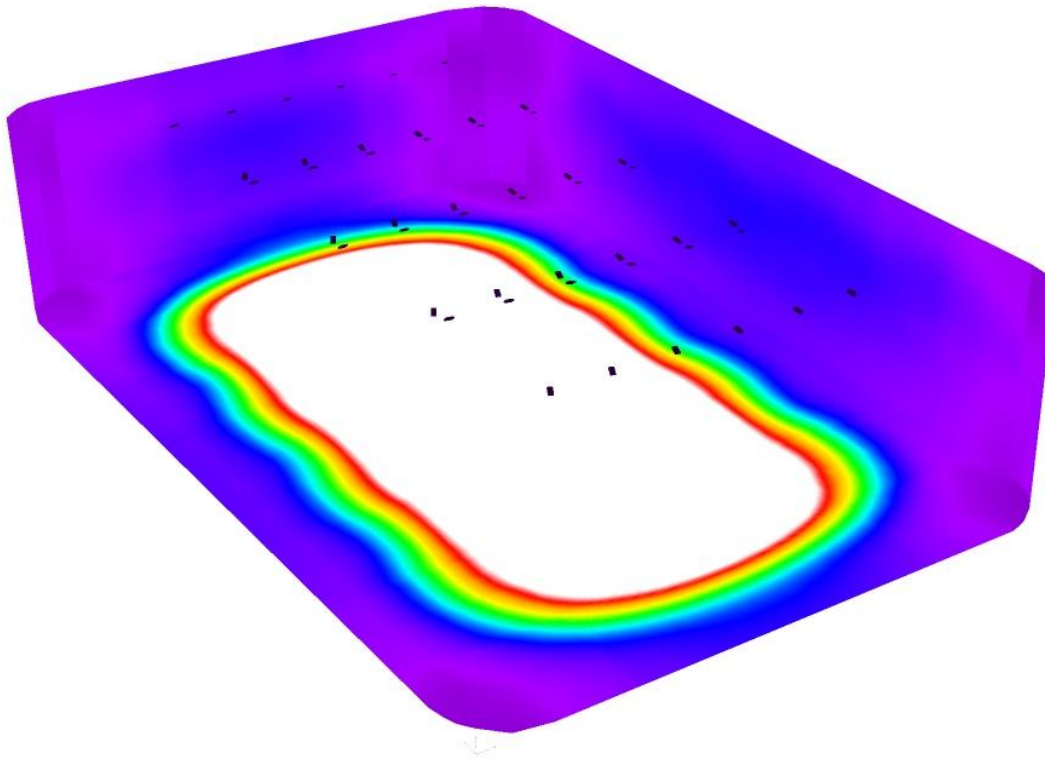
No.	Designation	Position [m]			Viewing sector [°]				Max
		X	Y	Z	Start	End	Increment	Slope angle	
5	GR Observer 1	26.300	46.300	1.500	0.0	360.0	15.0	-2.0	14 ¹⁾
6	GR Observer 1	12.880	32.352	1.500	0.0	360.0	15.0	-2.0	21 ¹⁾
7	GR Observer 1	15.720	35.448	1.500	0.0	360.0	15.0	-2.0	18 ¹⁾
8	GR Observer 1	19.620	35.448	1.500	0.0	360.0	15.0	-2.0	19 ¹⁾
9	GR Observer 1	21.720	38.048	1.500	0.0	360.0	15.0	-2.0	21 ¹⁾
10	GR Observer 1	26.320	35.448	1.500	0.0	360.0	15.0	-2.0	13 ¹⁾
11	GR Observer 1	12.880	21.252	1.500	0.0	360.0	15.0	-2.0	21 ¹⁾
12	GR Observer 1	15.720	24.348	1.500	0.0	360.0	15.0	-2.0	17 ¹⁾
13	GR Observer 1	19.620	24.348	1.500	0.0	360.0	15.0	-2.0	19 ¹⁾
14	GR Observer 1	21.720	26.948	1.500	0.0	360.0	15.0	-2.0	20 ¹⁾
15	GR Observer 1	26.320	24.348	1.500	0.0	360.0	15.0	-2.0	11 ¹⁾
16	GR Observer 1	12.880	10.252	1.500	0.0	360.0	15.0	-2.0	21 ¹⁾
17	GR Observer 1	15.720	13.348	1.500	0.0	360.0	15.0	-2.0	17 ¹⁾
18	GR Observer 1	19.620	13.348	1.500	0.0	360.0	15.0	-2.0	19 ¹⁾
19	GR Observer 1	21.720	15.948	1.500	0.0	360.0	15.0	-2.0	21 ¹⁾
20	GR Observer 1	26.320	13.348	1.500	0.0	360.0	15.0	-2.0	13 ¹⁾

1) The equivalent veil luminance of the environment has been calculated precisely.

Room 1 / 3D Rendering

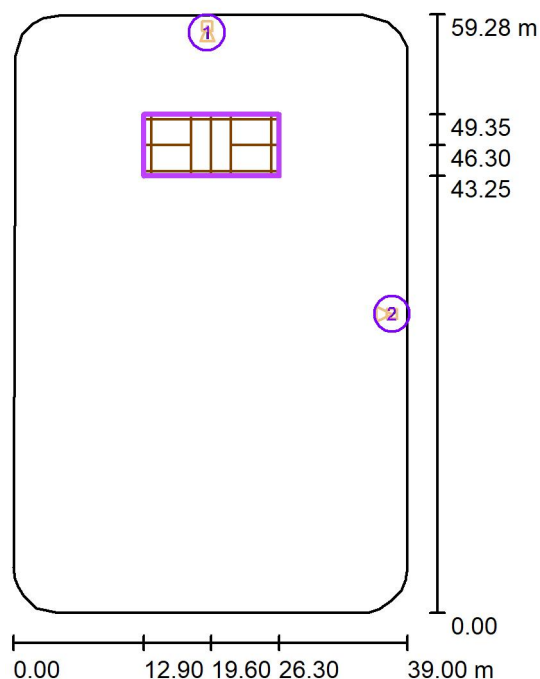


Room 1 / False Color Rendering



lx

Room 1 / Badminton 1 Calculation Grid (PA) / Summary



Scale 1 : 750

Position: (19.600 m, 46.300 m, 0.000 m)
Size: (13.400 m, 6.100 m)
Rotation: (0.0°, 0.0°, 0.0°)
Type: Normal, Grid: 11 x 5 Points
Belongs to the following sport arena: Badminton 1

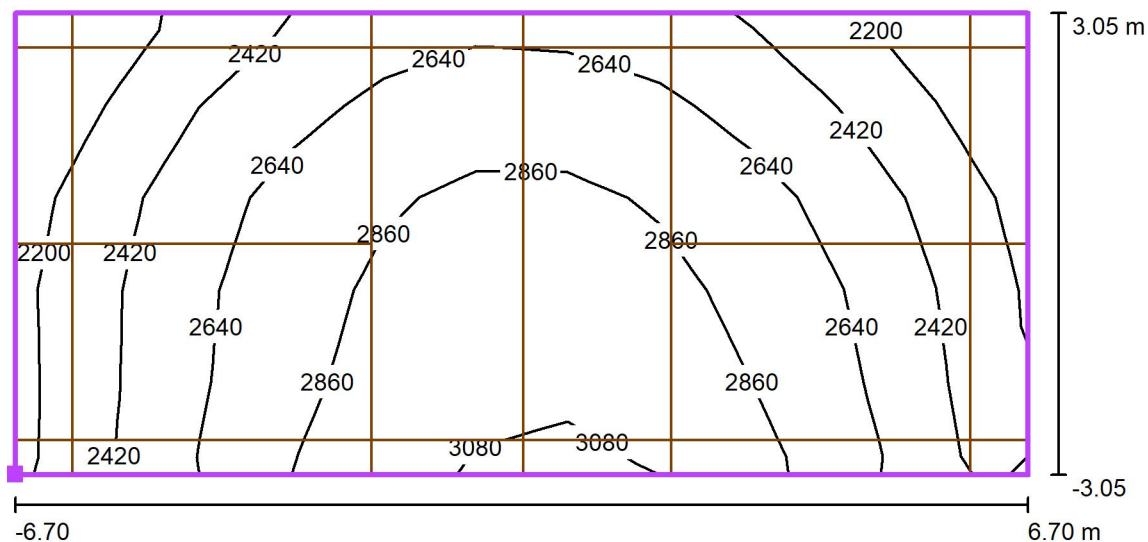
Results overview

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	2627	2007	3091	0.76	0.65	/	0.000	/
2	vertical, 0.0°	648	356	794	0.55	0.45	4.05	1.000	/
3	Camera	1709	1268	1972	0.74	0.64	1.54	1.000	1
4	Camera	1316	1020	1484	0.78	0.69	2.00	1.000	2

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

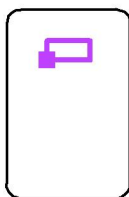
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Room 1 / Badminton 1 Calculation Grid (PA) / Isolines (E, Horizontal)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 43.250 m,
0.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
2627

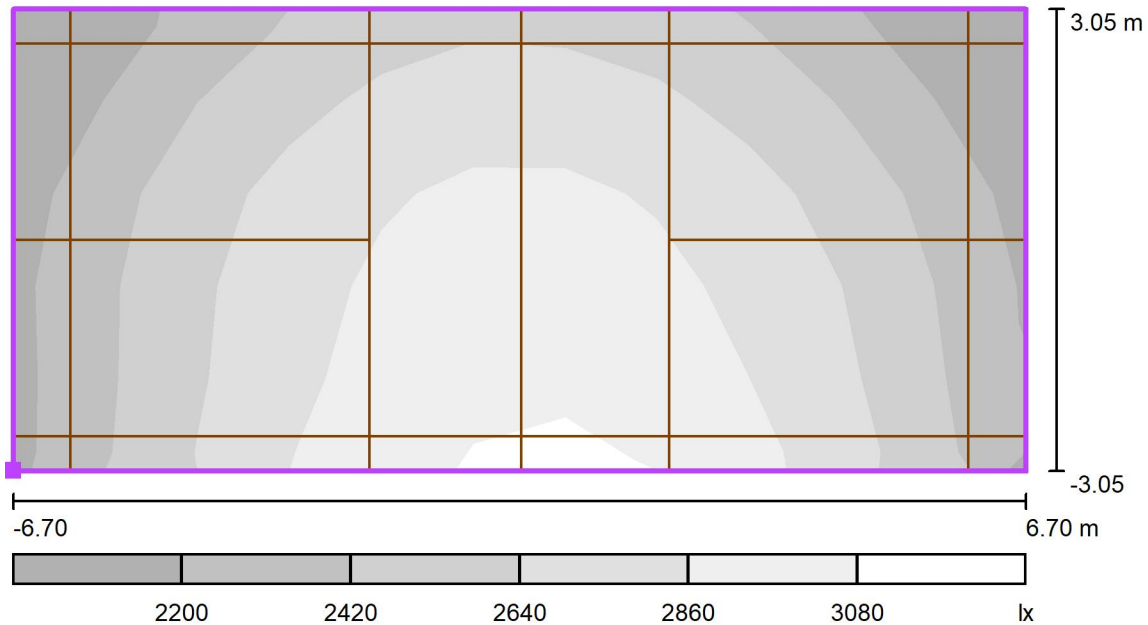
E_{min} [lx]
2007

E_{max} [lx]
3091

u_0
0.76

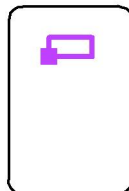
E_{min} / E_{max}
0.65

Room 1 / Badminton 1 Calculation Grid (PA) / Greyscale (E, Horizontal)



Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 43.250 m,
0.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
2627

E_{min} [lx]
2007

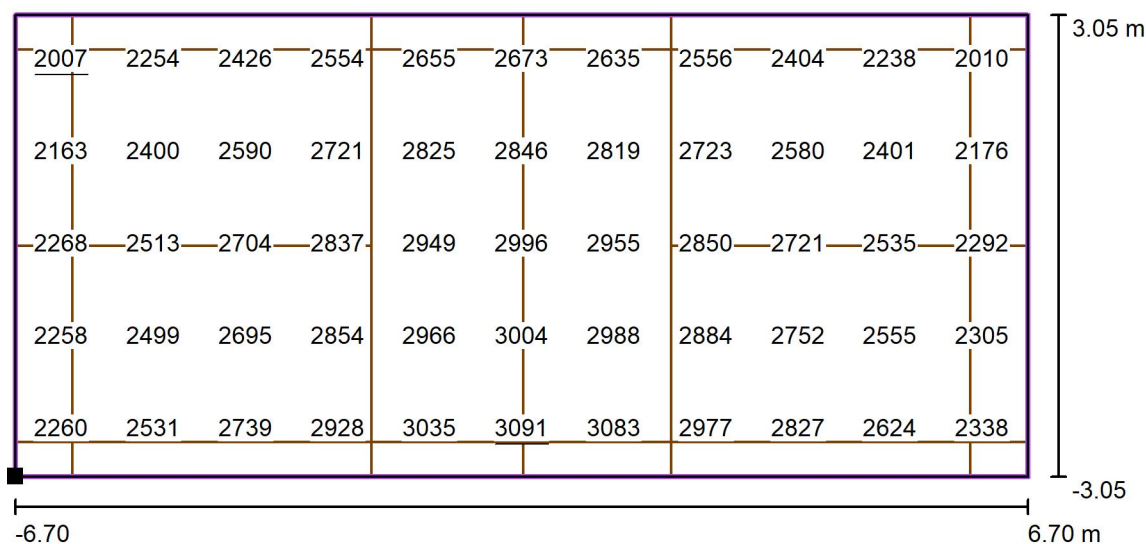
E_{max} [lx]
3091

u_0
0.76

E_{min} / E_{max}
0.65

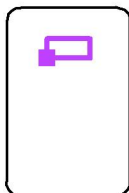
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Room 1 / Badminton 1 Calculation Grid (PA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 43.250 m,
0.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
2627

E_{min} [lx]
2007

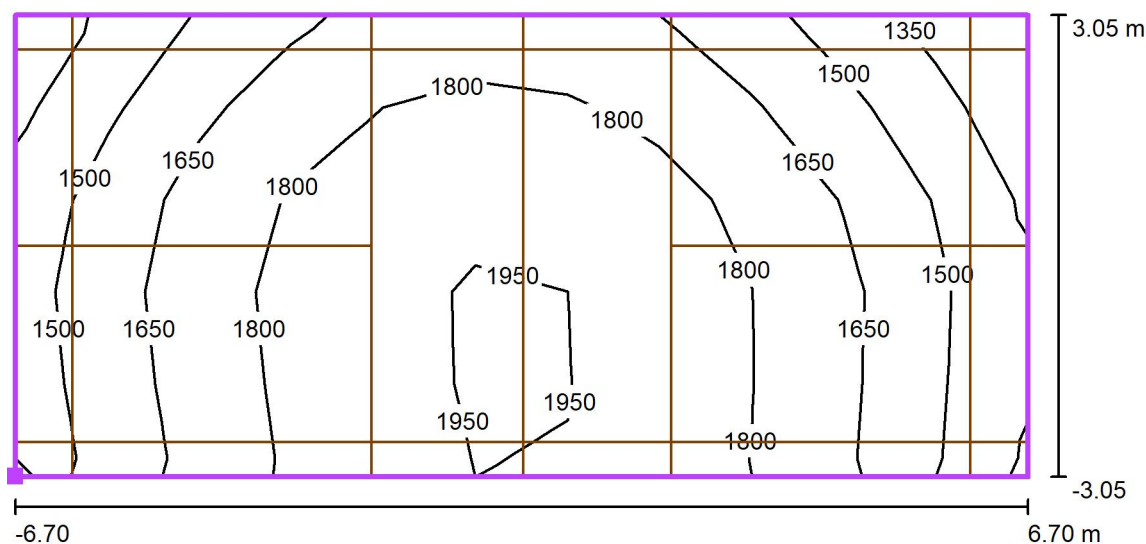
E_{max} [lx]
3091

u_0
0.76

E_{min} / E_{max}
0.65

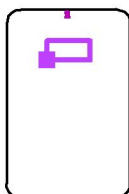
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Room 1 / Badminton 1 Calculation Grid (PA) / Isolines (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 43.250 m, 0.000 m)
Camera Position: (19.200 m, 58.100 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1709

E_{min} [lx]
1268

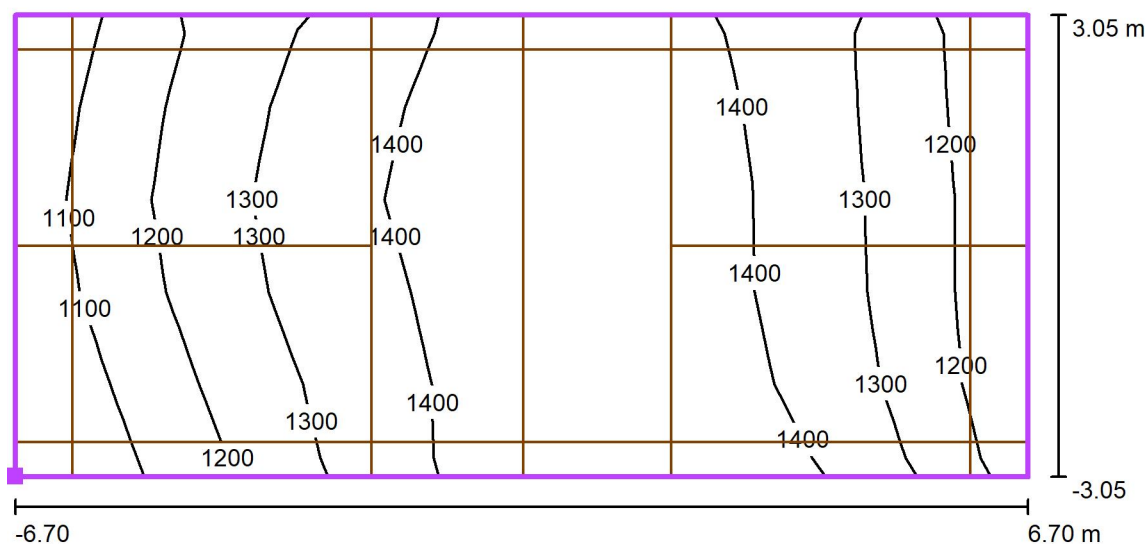
E_{max} [lx]
1972

u_0
0.74

E_{min} / E_{max}
0.64

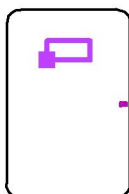
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Room 1 / Badminton 1 Calculation Grid (PA) / Isolines (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 43.250 m,
0.000 m)
Camera Position: (37.500 m,
29.600 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1316

E_{min} [lx]
1020

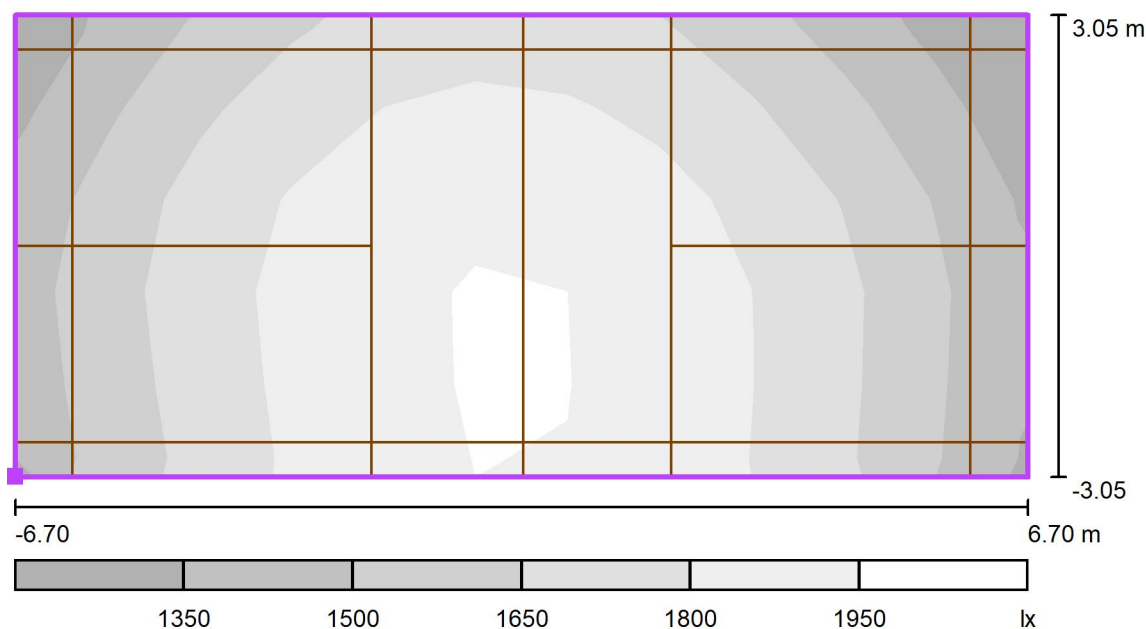
E_{max} [lx]
1484

u_0
0.78

E_{min} / E_{max}
0.69

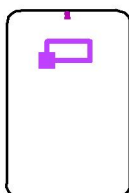
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Room 1 / Badminton 1 Calculation Grid (PA) / Greyscale (E, Camera)



Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 43.250 m,
0.000 m)
Camera Position: (19.200 m,
58.100 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1709

E_{min} [lx]
1268

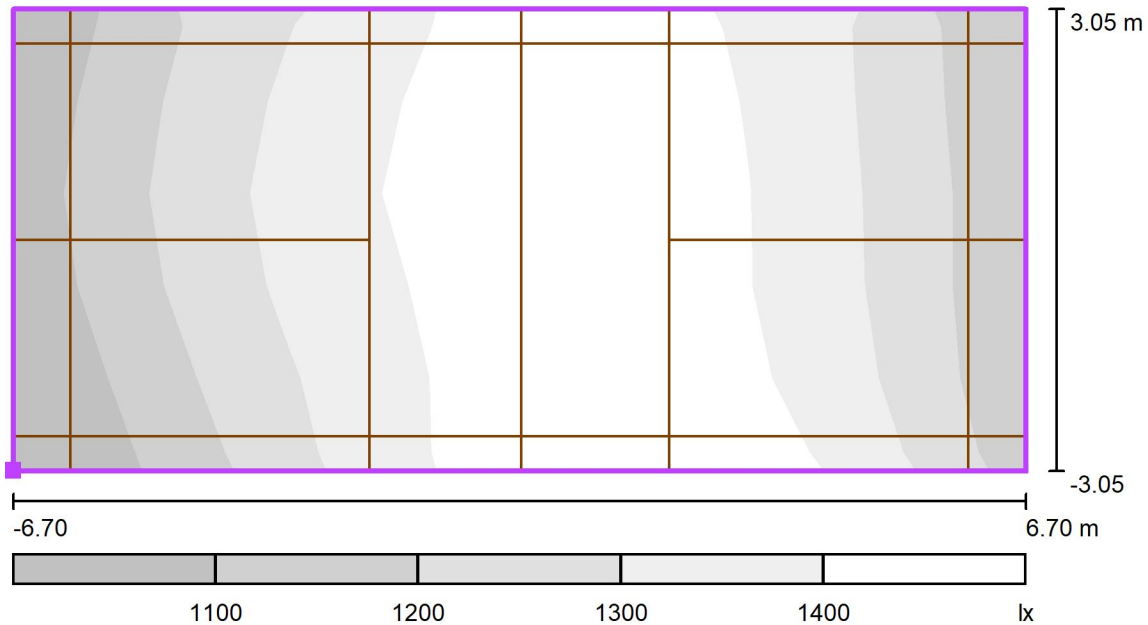
E_{max} [lx]
1972

u_0
0.74

E_{min} / E_{max}
0.64

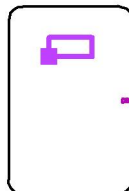
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e-Mail

Room 1 / Badminton 1 Calculation Grid (PA) / Greyscale (E, Camera)



Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 43.250 m,
0.000 m)
Camera Position: (37.500 m,
29.600 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1316

E_{min} [lx]
1020

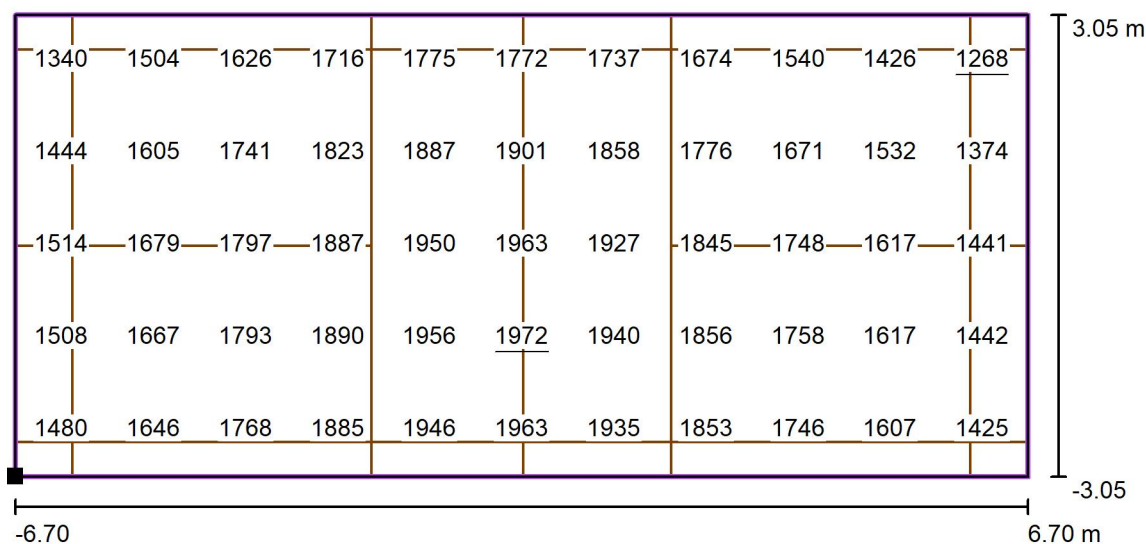
E_{max} [lx]
1484

u_0
0.78

E_{min} / E_{max}
0.69

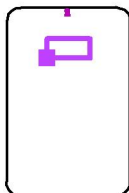
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Room 1 / Badminton 1 Calculation Grid (PA) / Value Chart (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 43.250 m,
0.000 m)
Camera Position: (19.200 m,
58.100 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1709

E_{min} [lx]
1268

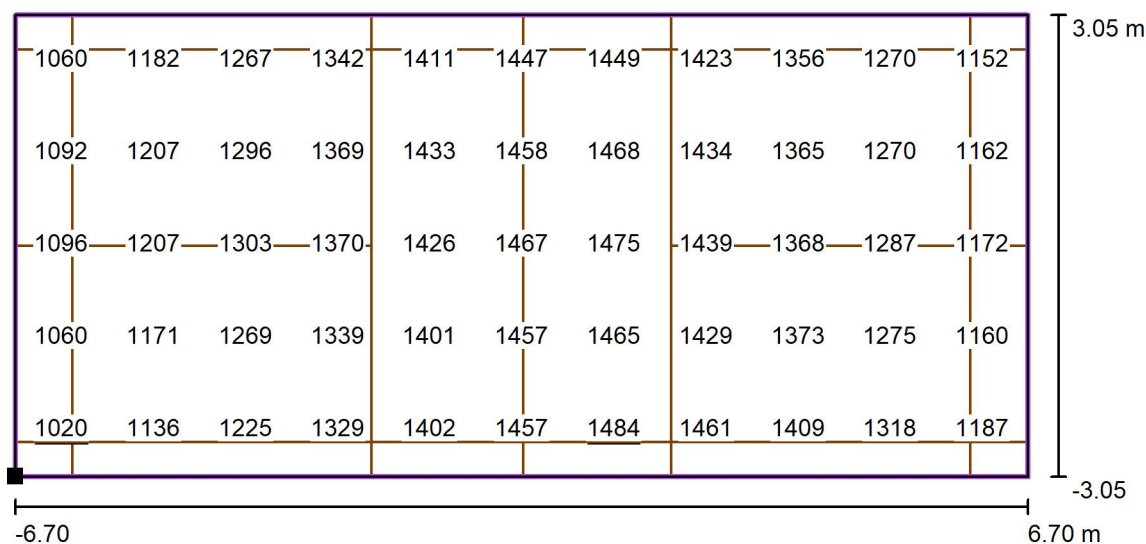
E_{max} [lx]
1972

u_0
0.74

E_{min} / E_{max}
0.64

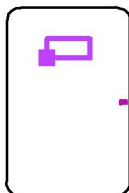
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 1 Calculation Grid (PA) / Value Chart (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 43.250 m,
0.000 m)
Camera Position: (37.500 m,
29.600 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1316

E_{min} [lx]
1020

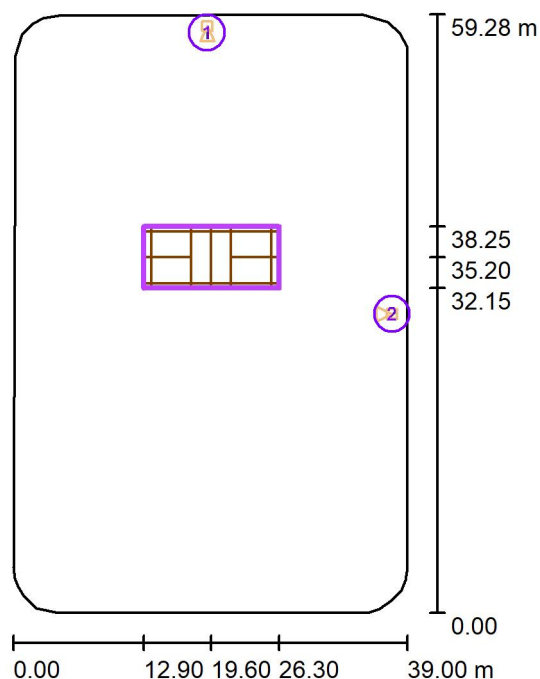
E_{max} [lx]
1484

u_0
0.78

E_{min} / E_{max}
0.69

Operator
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e-Mail

Room 1 / Badminton 2 Calculation Grid (PA) / Summary



Scale 1 : 750

Position: (19.600 m, 35.200 m, 0.000 m)
Size: (13.400 m, 6.100 m)
Rotation: (0.0°, 0.0°, 0.0°)
Type: Normal, Grid: 11 x 5 Points
Belongs to the following sport arena: Badminton 2

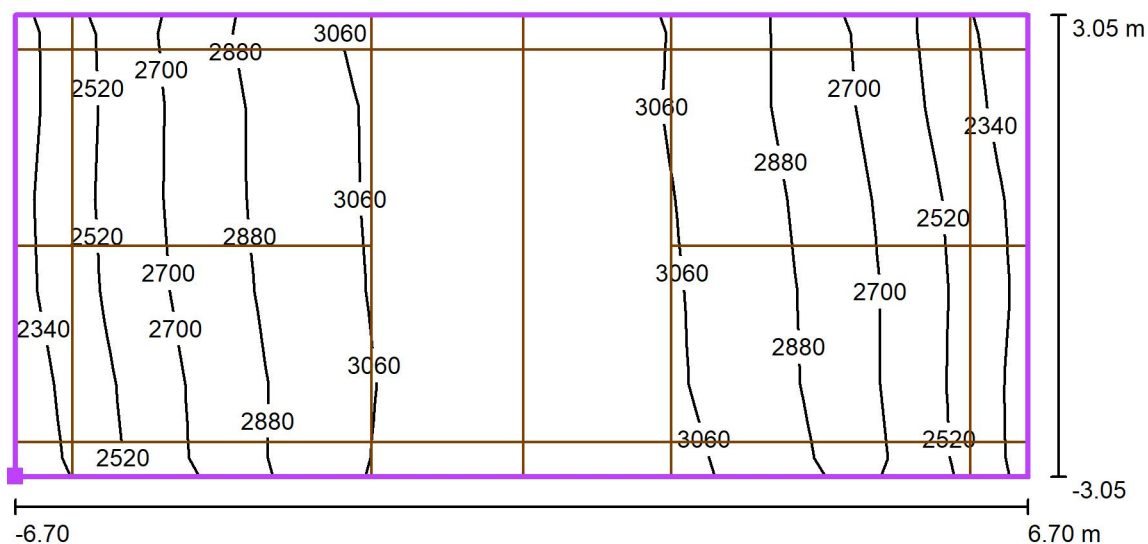
Results overview

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	2855	2335	3208	0.82	0.73	/	0.000	/
2	vertical, 0.0°	712	412	857	0.58	0.48	4.01	1.000	/
3	Camera	1414	1125	1605	0.80	0.70	2.02	1.000	1
4	Camera	1490	1117	1679	0.75	0.67	1.92	1.000	2

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

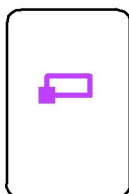
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 2 Calculation Grid (PA) / Isolines (E, Horizontal)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 32.150 m,
0.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
2855

E_{min} [lx]
2335

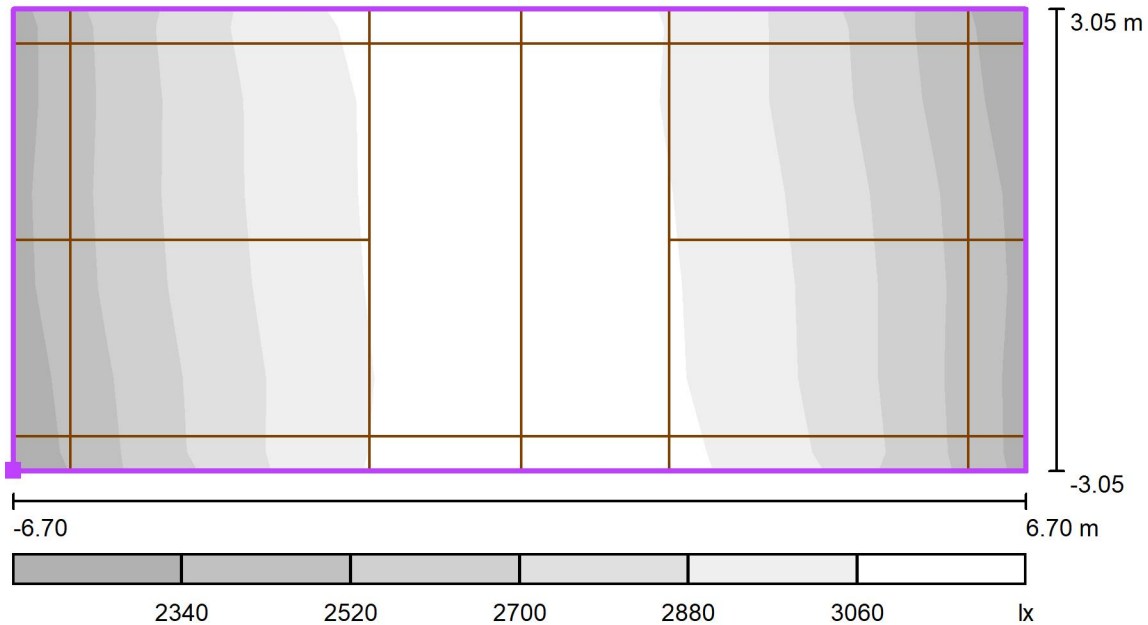
E_{max} [lx]
3208

u_0
0.82

E_{min} / E_{max}
0.73

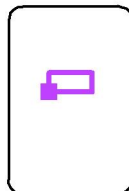
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 2 Calculation Grid (PA) / Greyscale (E, Horizontal)



Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 32.150 m,
0.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
2855

E_{min} [lx]
2335

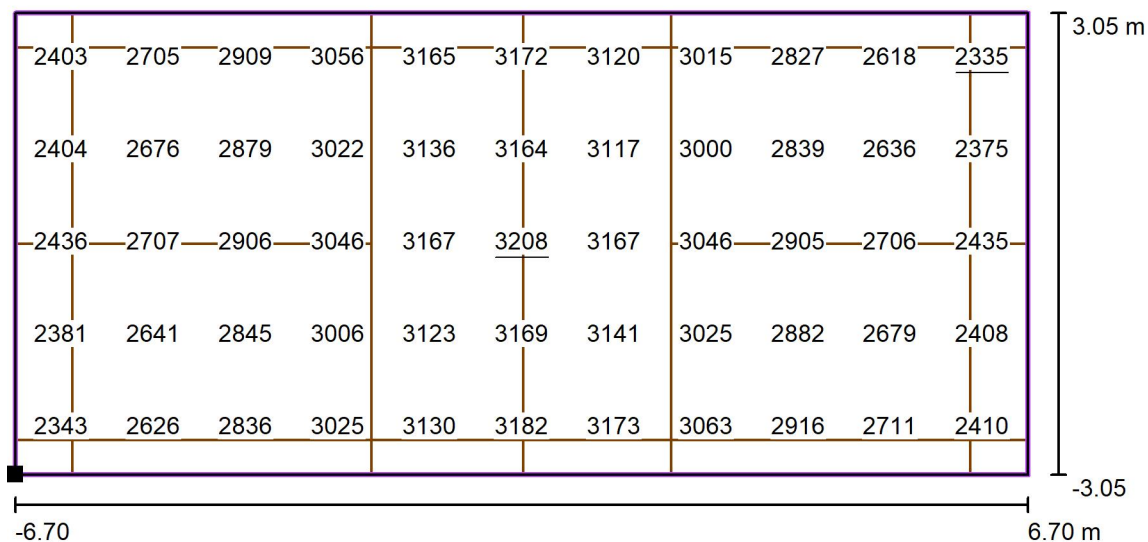
E_{max} [lx]
3208

u_0
0.82

E_{min} / E_{max}
0.73

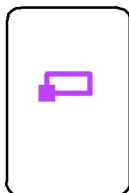
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 2 Calculation Grid (PA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 32.150 m,
0.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
2855

E_{min} [lx]
2335

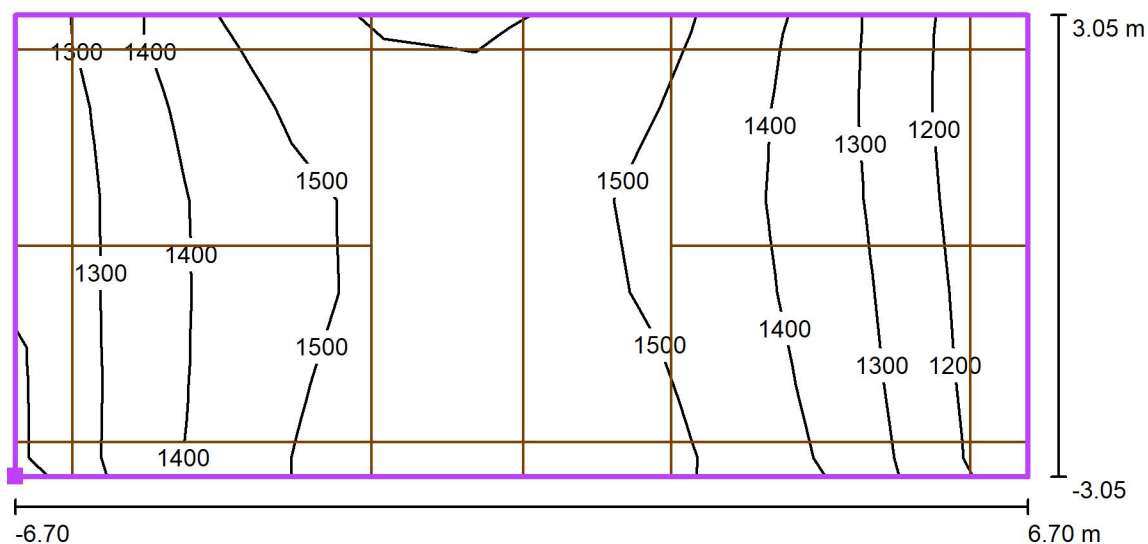
E_{max} [lx]
3208

u_0
0.82

E_{min} / E_{max}
0.73

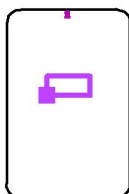
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 2 Calculation Grid (PA) / Isolines (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 32.150 m,
0.000 m)
Camera Position: (19.200 m,
58.100 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1414

E_{min} [lx]
1125

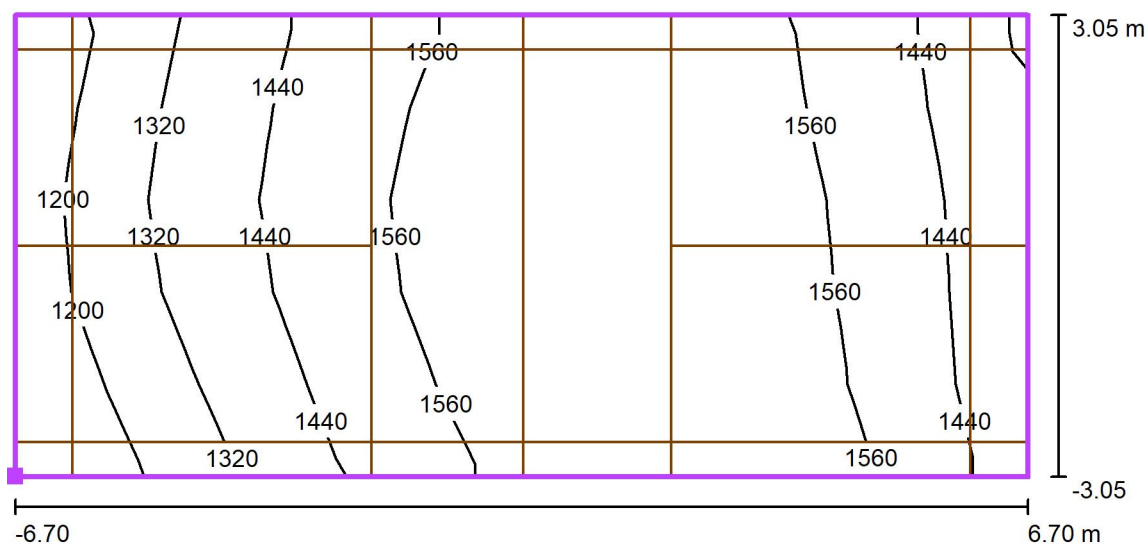
E_{max} [lx]
1605

u_0
0.80

E_{min} / E_{max}
0.70

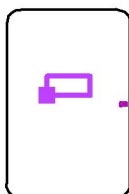
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 2 Calculation Grid (PA) / Isolines (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 32.150 m,
0.000 m)
Camera Position: (37.500 m,
29.600 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1490

E_{min} [lx]
1117

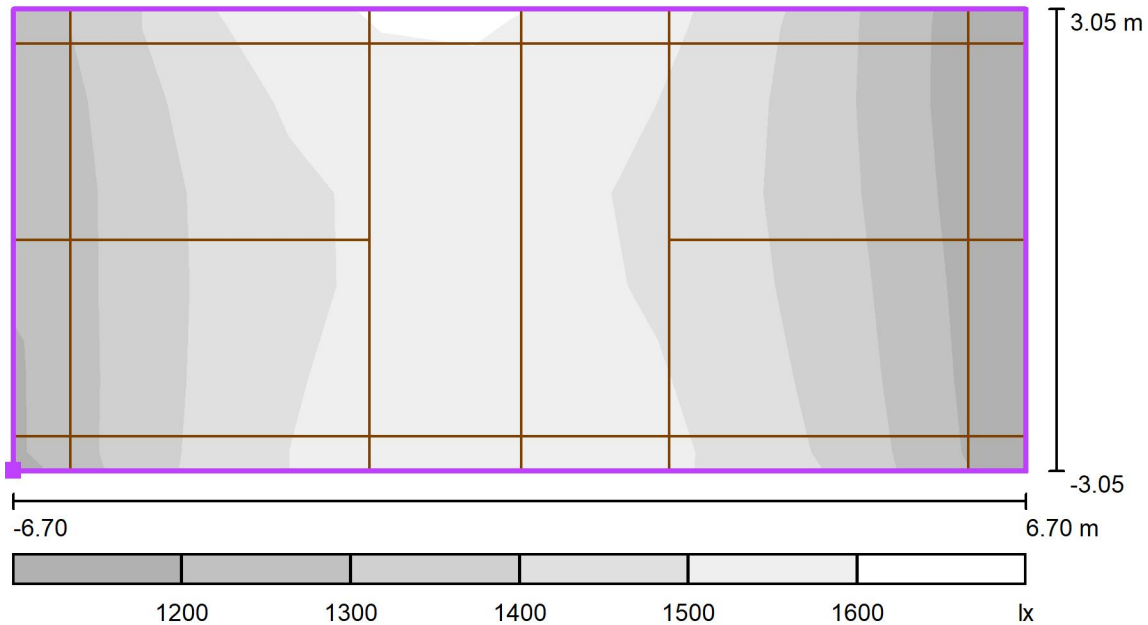
E_{max} [lx]
1679

u_0
0.75

E_{min} / E_{max}
0.67

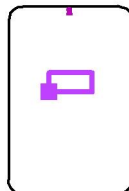
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 2 Calculation Grid (PA) / Greyscale (E, Camera)



Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 32.150 m,
0.000 m)
Camera Position: (19.200 m,
58.100 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1414

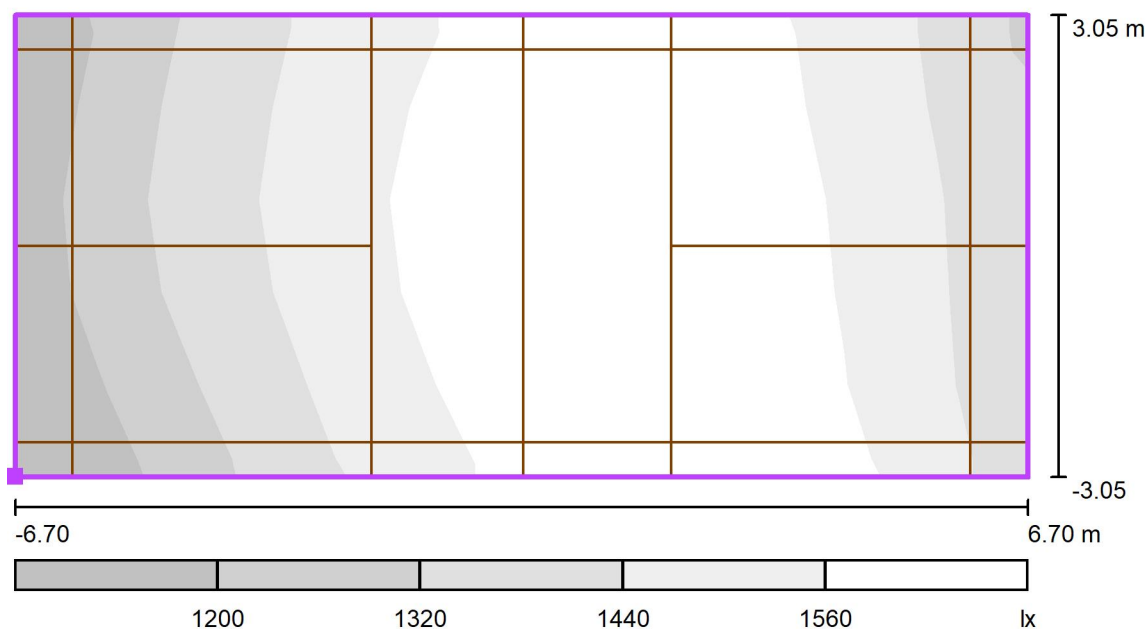
E_{min} [lx]
1125

E_{max} [lx]
1605

u_0
0.80

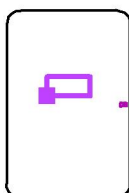
E_{min} / E_{max}
0.70

Room 1 / Badminton 2 Calculation Grid (PA) / Greyscale (E, Camera)



Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 32.150 m,
0.000 m)
Camera Position: (37.500 m,
29.600 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1490

E_{min} [lx]
1117

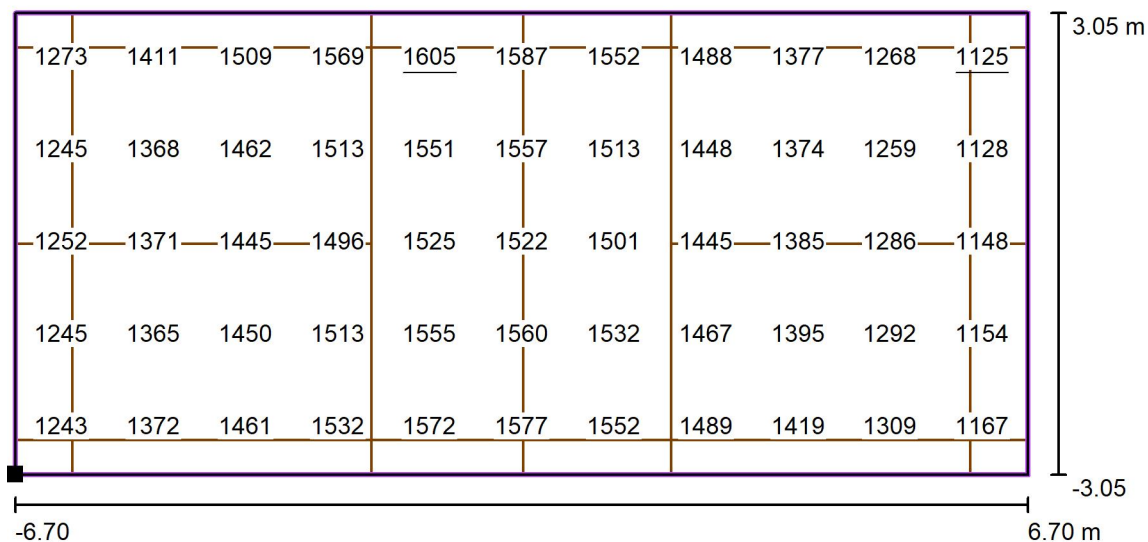
E_{max} [lx]
1679

u_0
0.75

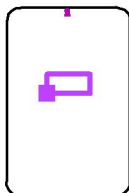
E_{min} / E_{max}
0.67

Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 2 Calculation Grid (PA) / Value Chart (E, Camera)



Position of surface in room:
Marked point: (12.900 m, 32.150 m, 0.000 m)
Camera Position: (19.200 m, 58.100 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1414

E_{min} [lx]
1125

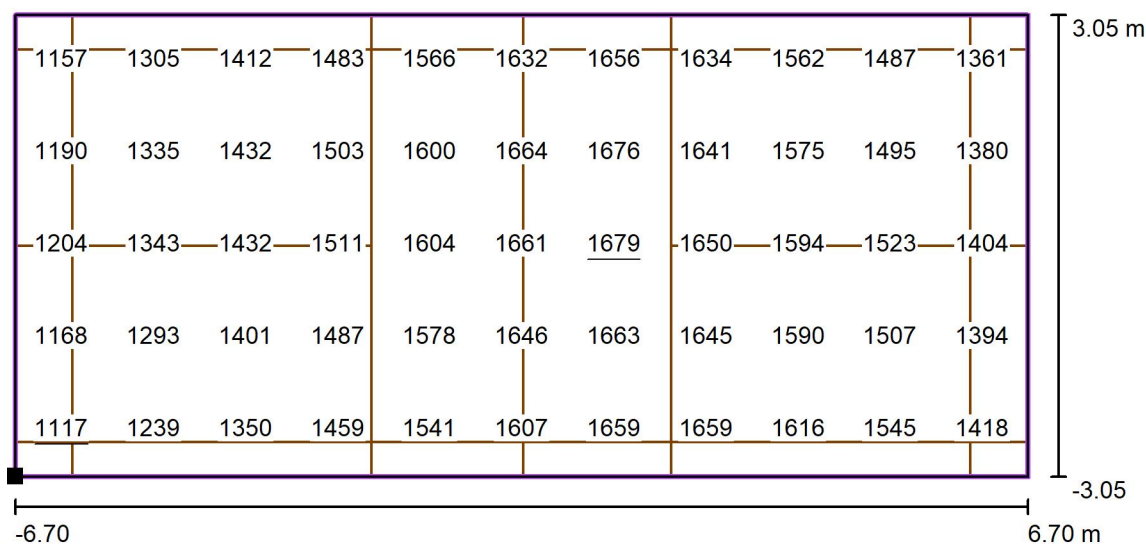
E_{max} [lx]
1605

u_0
0.80

E_{min} / E_{max}
0.70

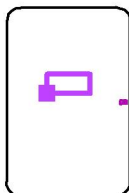
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 2 Calculation Grid (PA) / Value Chart (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 32.150 m, 0.000 m)
Camera Position: (37.500 m, 29.600 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1490

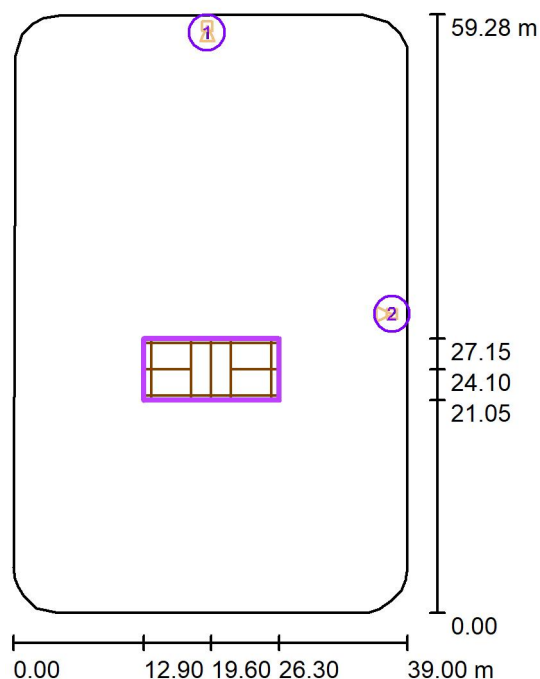
E_{min} [lx]
1117

E_{max} [lx]
1679

u_0
0.75

E_{min} / E_{max}
0.67

Room 1 / Badminton 3 Calculation Grid (PA) / Summary



Scale 1 : 750

Position: (19.600 m, 24.100 m, 0.000 m)
Size: (13.400 m, 6.100 m)
Rotation: (0.0°, 0.0°, 0.0°)
Type: Normal, Grid: 11 x 5 Points
Belongs to the following sport arena: Badminton 3

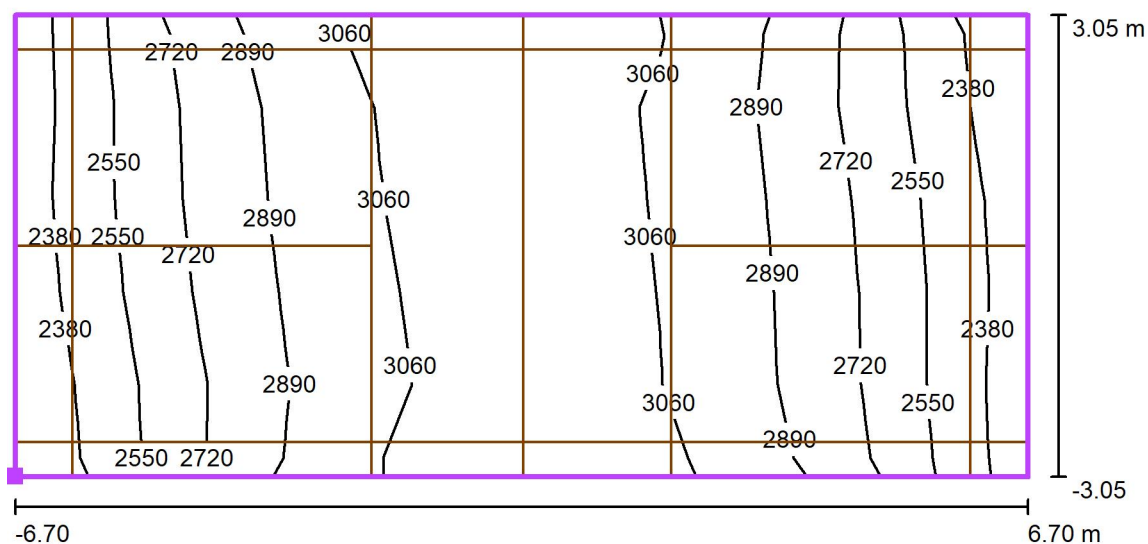
Results overview

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	2827	2329	3165	0.82	0.74	/	0.000	/
2	vertical, 0.0°	701	411	842	0.59	0.49	4.03	1.000	/
3	Camera	1261	1018	1443	0.81	0.71	2.24	1.000	1
4	Camera	1479	1156	1661	0.78	0.70	1.91	1.000	2

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

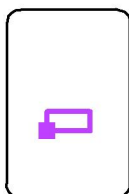
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 3 Calculation Grid (PA) / Isolines (E, Horizontal)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 21.050 m,
0.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
2827

E_{min} [lx]
2329

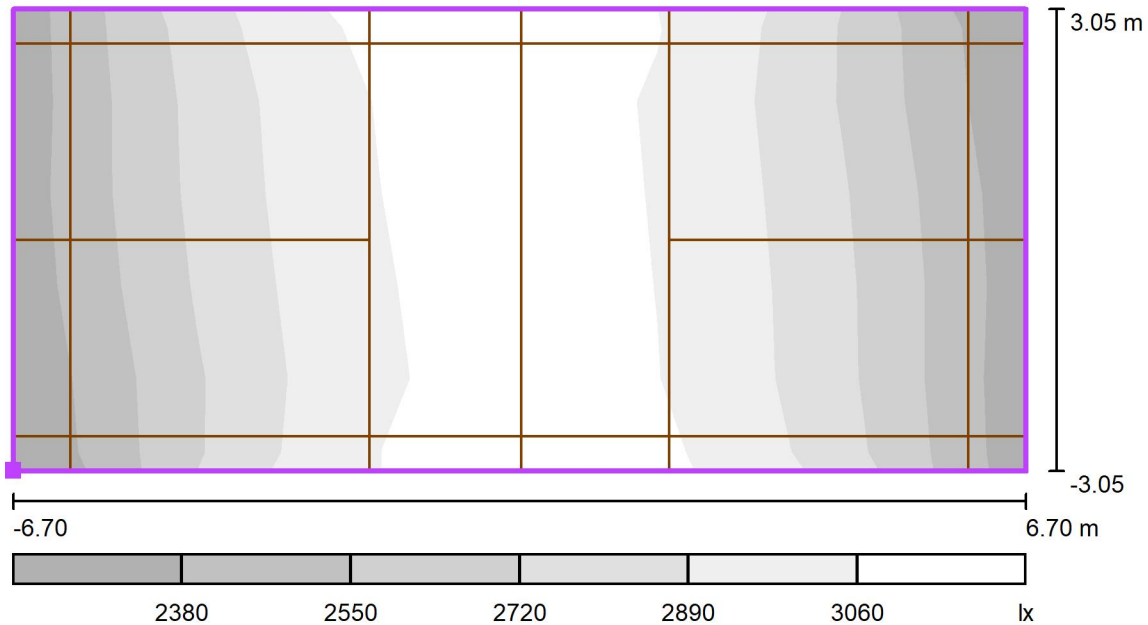
E_{max} [lx]
3165

u_0
0.82

E_{min} / E_{max}
0.74

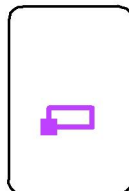
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 3 Calculation Grid (PA) / Greyscale (E, Horizontal)



Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 21.050 m,
0.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
2827

E_{min} [lx]
2329

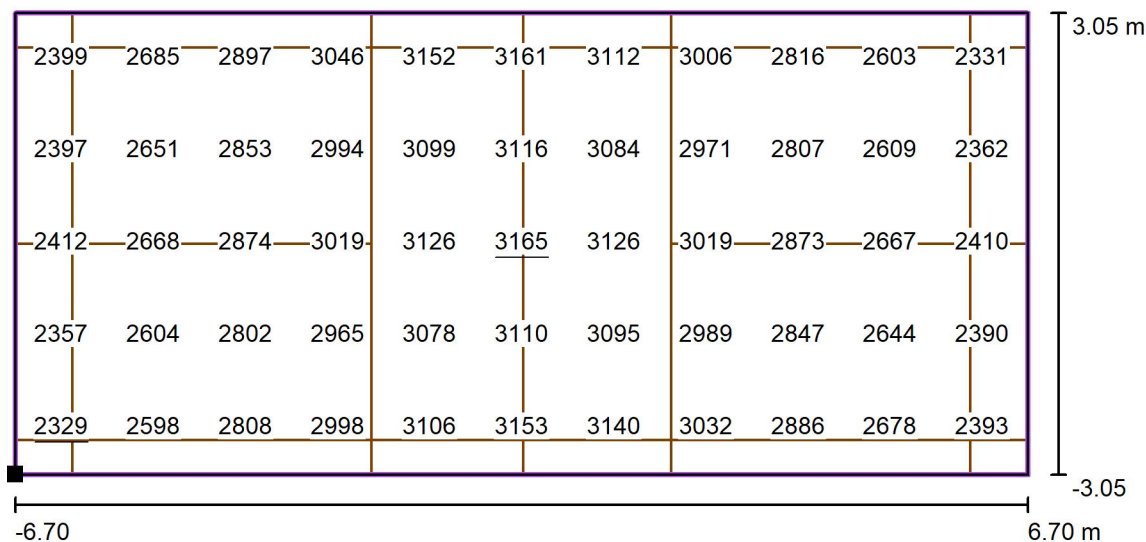
E_{max} [lx]
3165

u_0
0.82

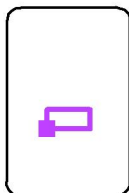
E_{min} / E_{max}
0.74

Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 3 Calculation Grid (PA) / Value Chart (E, Horizontal)



Position of surface in room:
Marked point: (12.900 m, 21.050 m,
0.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
2827

E_{min} [lx]
2329

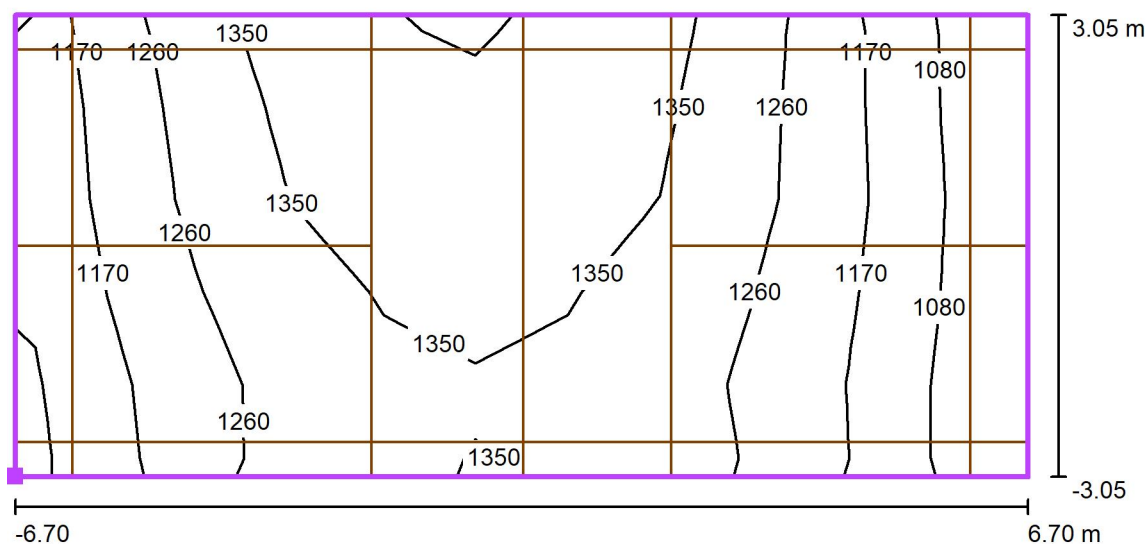
E_{max} [lx]
3165

u_0
0.82

E_{min} / E_{max}
0.74

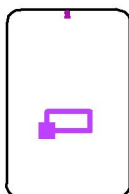
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 3 Calculation Grid (PA) / Isolines (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 21.050 m,
0.000 m)
Camera Position: (19.200 m,
58.100 m, 10.000 m)



Grid: 11 x 5 Points

$$E_{av} [Ix]$$
$$E_{\min} [Ix]$$
$$E_{\max} [Ix]$$

1443

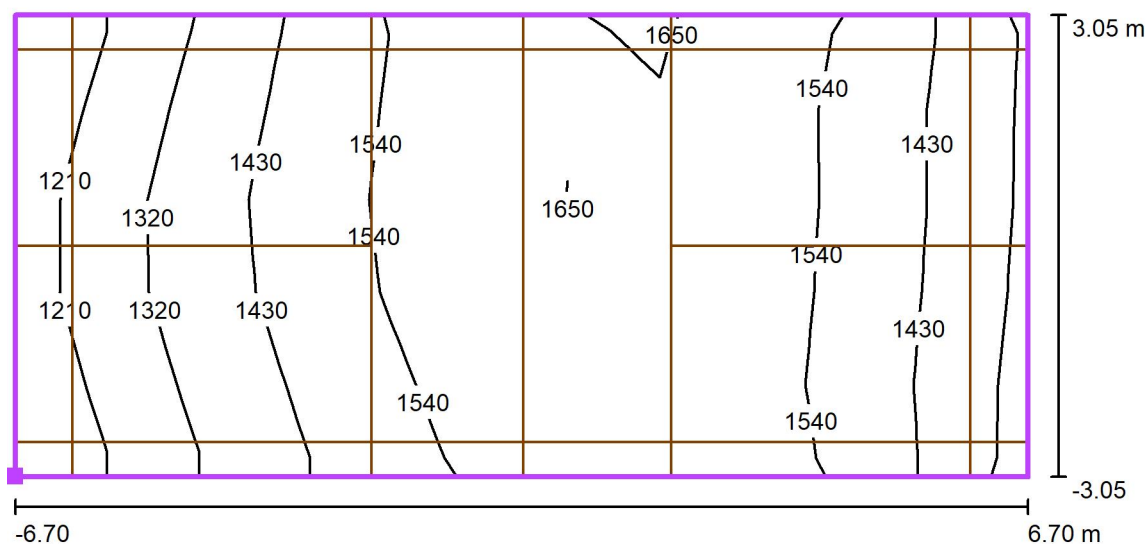
u0
0.81

$$E_{\min} / E_{\max}$$

0.71

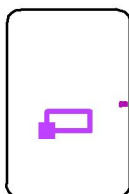
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 3 Calculation Grid (PA) / Isolines (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 21.050 m, 0.000 m)
Camera Position: (37.500 m, 29.600 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1479

E_{min} [lx]
1156

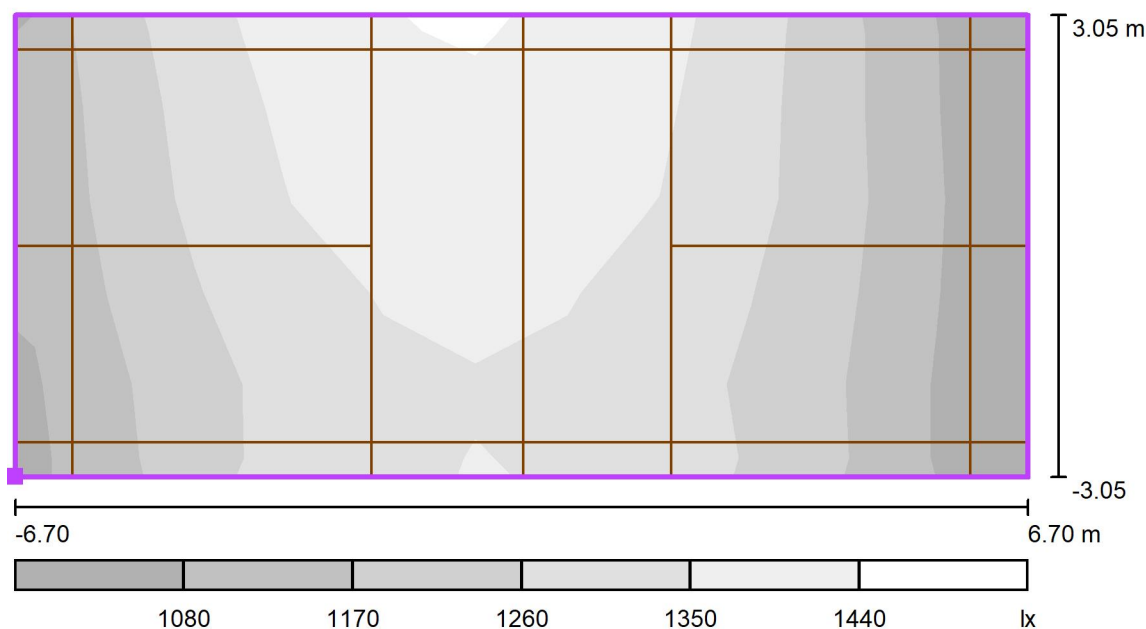
E_{max} [lx]
1661

u_0
0.78

E_{min} / E_{max}
0.70

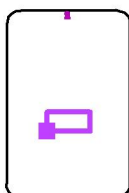
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 3 Calculation Grid (PA) / Greyscale (E, Camera)



Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 21.050 m,
0.000 m)
Camera Position: (19.200 m,
58.100 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1261

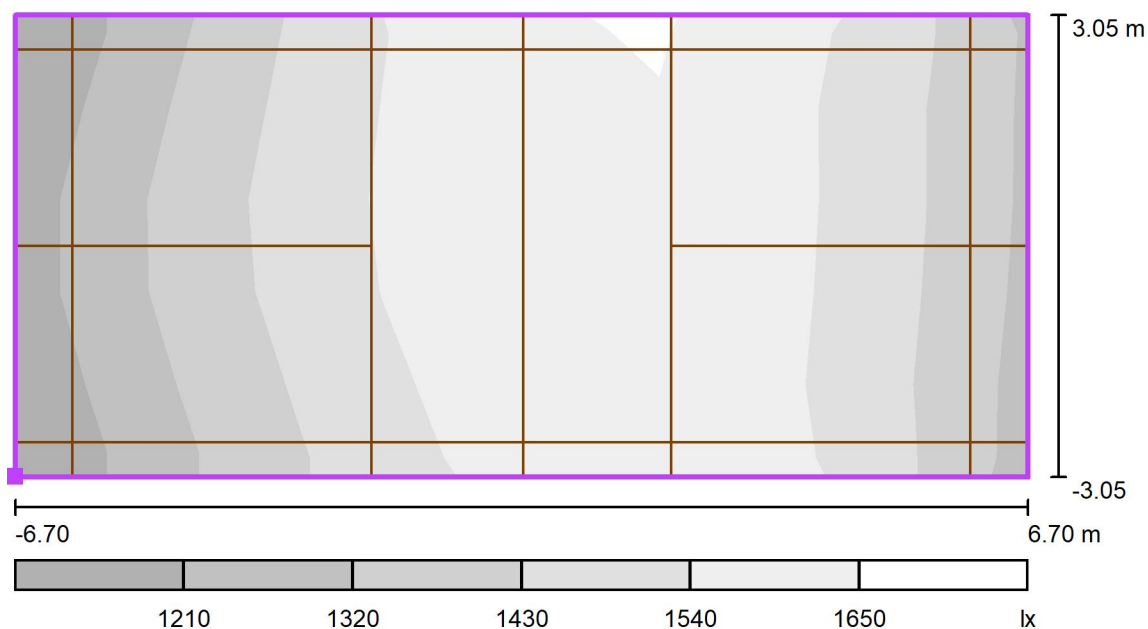
E_{min} [lx]
1018

E_{max} [lx]
1443

u_0
0.81

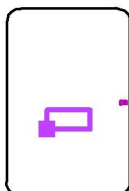
E_{min} / E_{max}
0.71

Room 1 / Badminton 3 Calculation Grid (PA) / Greyscale (E, Camera)



Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 21.050 m,
0.000 m)
Camera Position: (37.500 m,
29.600 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1479

E_{min} [lx]
1156

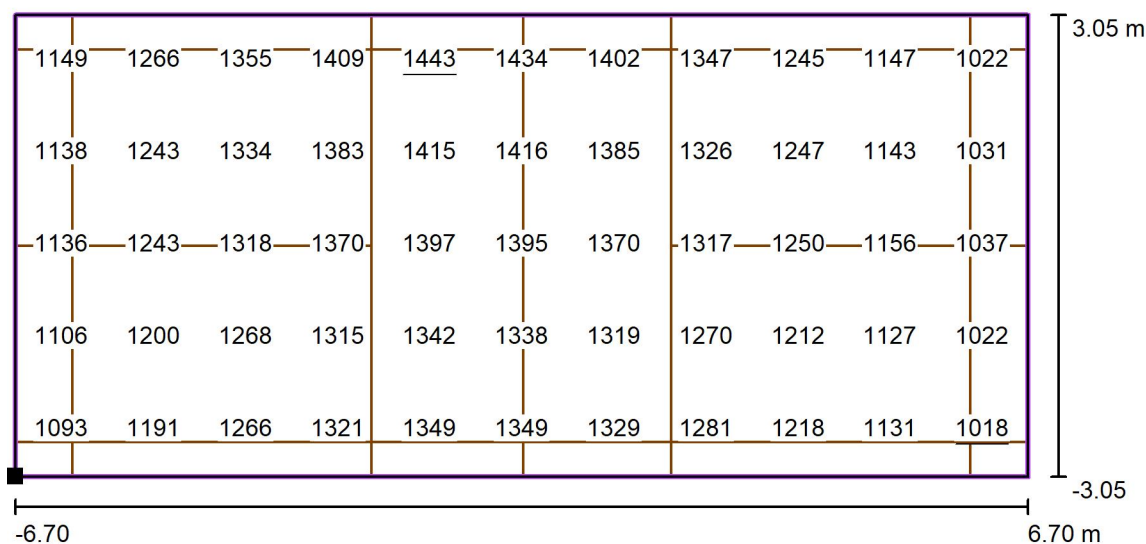
E_{max} [lx]
1661

u_0
0.78

E_{min} / E_{max}
0.70

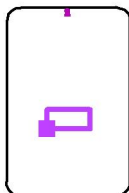
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 3 Calculation Grid (PA) / Value Chart (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 21.050 m, 0.000 m)
Camera Position: (19.200 m, 58.100 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1261

E_{min} [lx]
1018

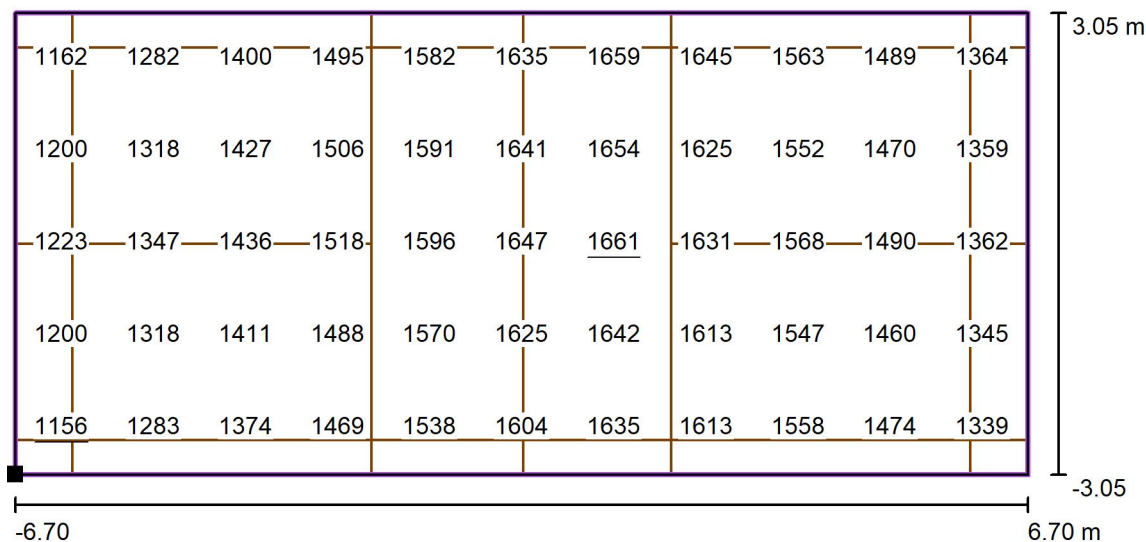
E_{max} [lx]
1443

u_0
0.81

E_{min} / E_{max}
0.71

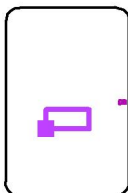
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 3 Calculation Grid (PA) / Value Chart (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 21.050 m, 0.000 m)
Camera Position: (37.500 m, 29.600 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1479

E_{min} [lx]
1156

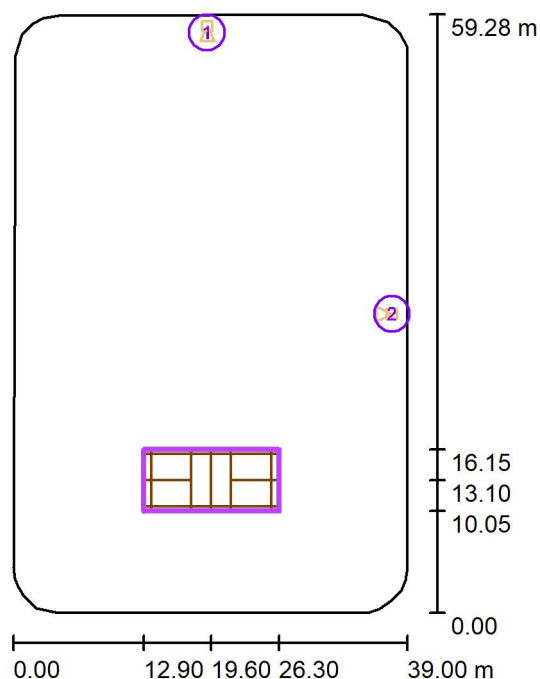
E_{max} [lx]
1661

u_0
0.78

E_{min} / E_{max}
0.70

Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 4 Calculation Grid (PA) / Summary



Scale 1 : 750

Position: (19.600 m, 13.100 m, 0.000 m)
Size: (13.400 m, 6.100 m)
Rotation: (0.0°, 0.0°, 0.0°)
Type: Normal, Grid: 11 x 5 Points
Belongs to the following sport arena: Badminton 4

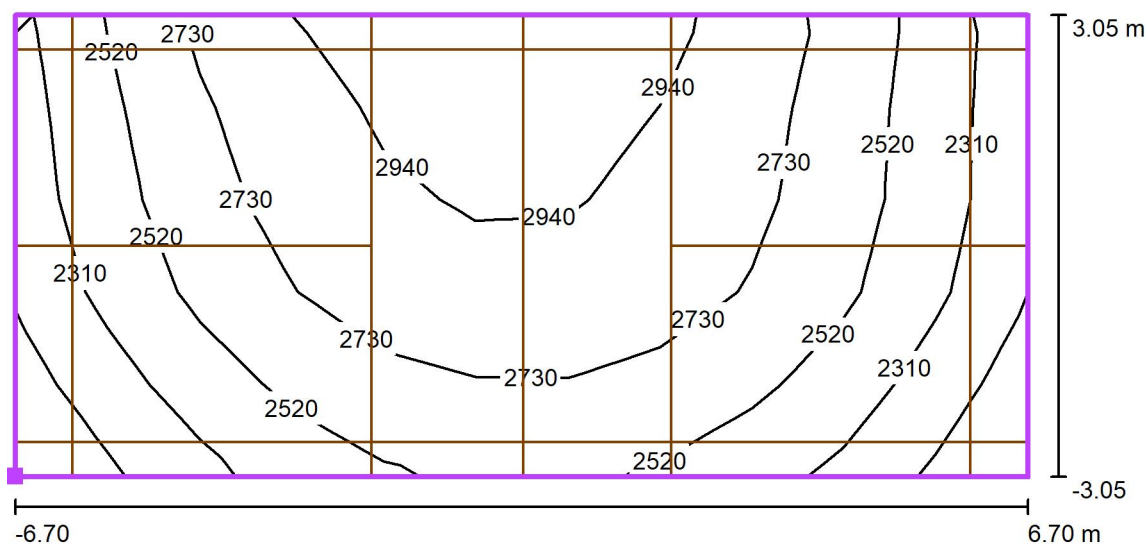
Results overview

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	2626	2019	3057	0.77	0.66	/	0.000	/
2	vertical, 0.0°	630	340	782	0.54	0.43	4.17	1.000	/
3	Camera	1176	920	1338	0.78	0.69	2.23	1.000	1
4	Camera	1322	1093	1475	0.83	0.74	1.99	1.000	2

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

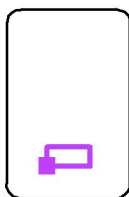
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 4 Calculation Grid (PA) / Isolines (E, Horizontal)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 10.050 m,
0.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
2626

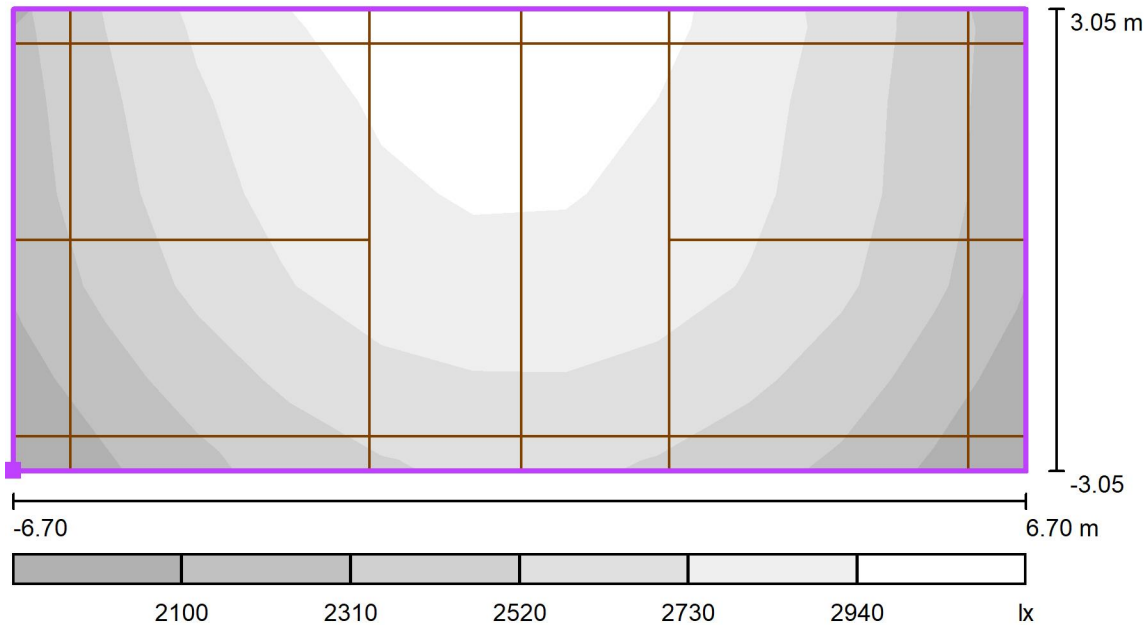
E_{min} [lx]
2019

E_{max} [lx]
3057

u_0
0.77

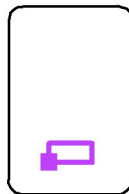
E_{min} / E_{max}
0.66

Room 1 / Badminton 4 Calculation Grid (PA) / Greyscale (E, Horizontal)



Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 10.050 m,
0.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
2626

E_{min} [lx]
2019

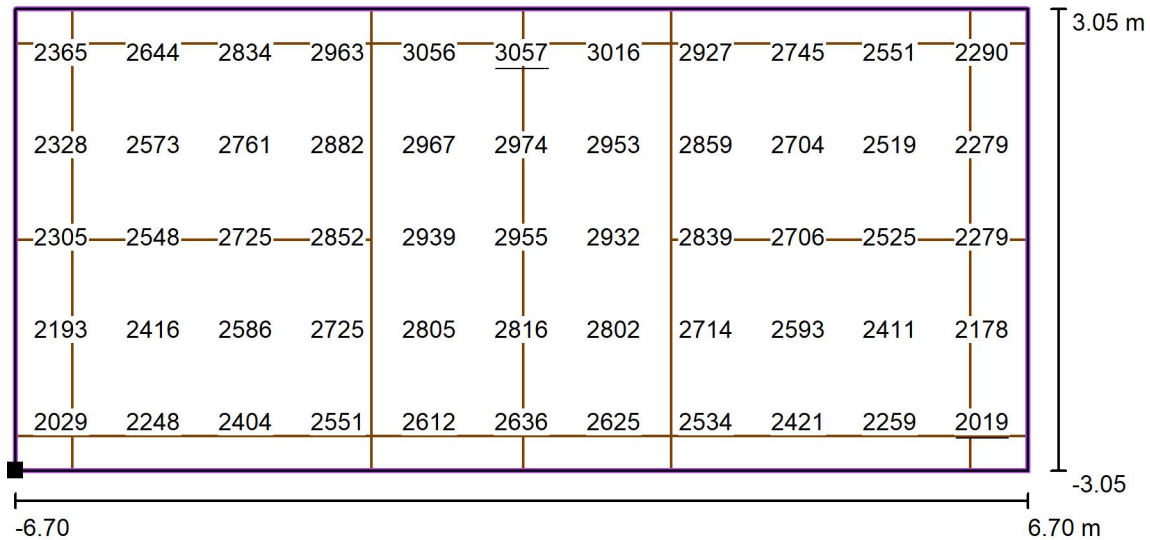
E_{max} [lx]
3057

u_0
0.77

E_{min} / E_{max}
0.66

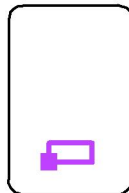
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 4 Calculation Grid (PA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 10.050 m,
0.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
2626

E_{min} [lx]
2019

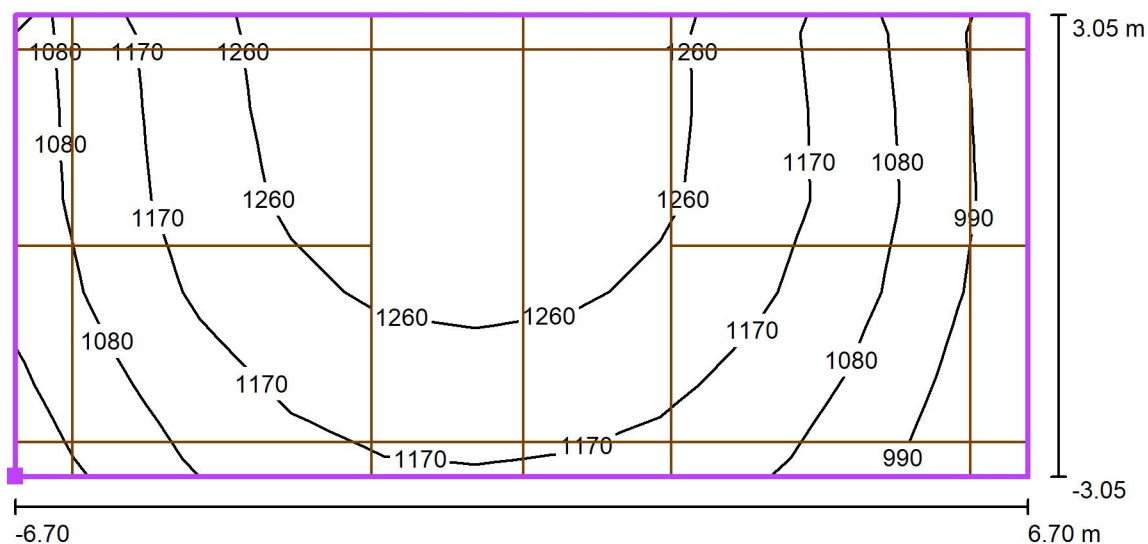
E_{max} [lx]
3057

u_0
0.77

E_{min} / E_{max}
0.66

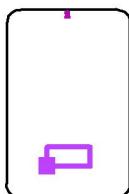
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 4 Calculation Grid (PA) / Isolines (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 10.050 m,
0.000 m)
Camera Position: (19.200 m,
58.100 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1176

E_{min} [lx]
920

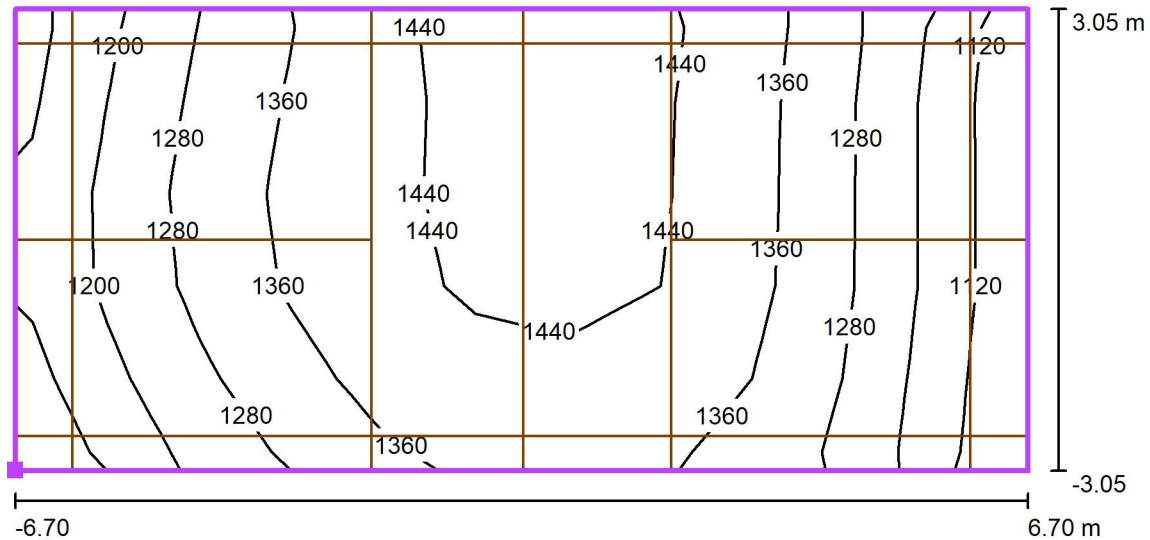
E_{max} [lx]
1338

u_0
0.78

E_{min} / E_{max}
0.69

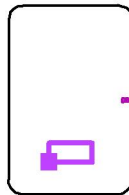
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 4 Calculation Grid (PA) / Isolines (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 10.050 m,
0.000 m)
Camera Position: (37.500 m,
29.600 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1322

E_{min} [lx]
1093

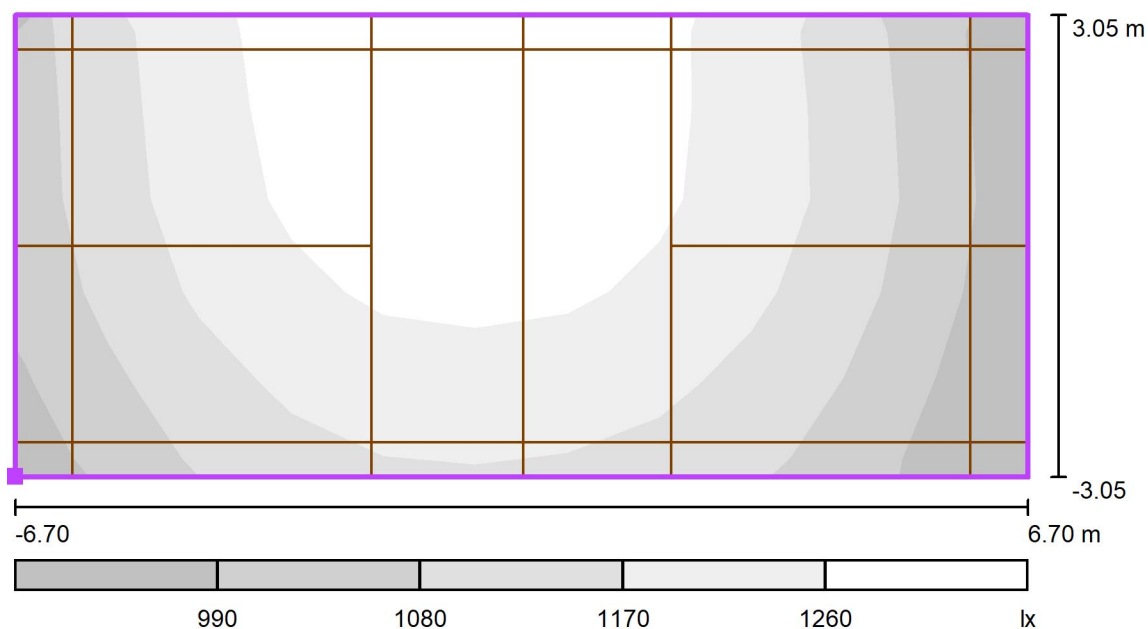
E_{max} [lx]
1475

u_0
0.83

E_{min} / E_{max}
0.74

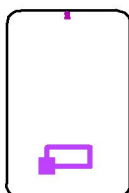
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 4 Calculation Grid (PA) / Greyscale (E, Camera)



Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 10.050 m,
0.000 m)
Camera Position: (19.200 m,
58.100 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1176

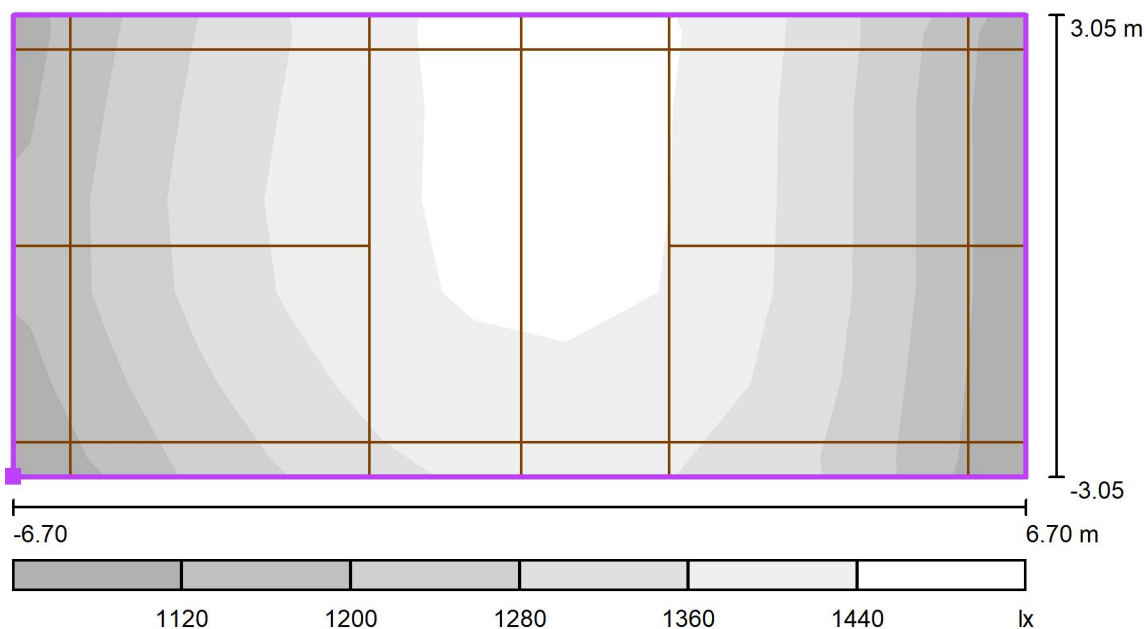
E_{min} [lx]
920

E_{max} [lx]
1338

u_0
0.78

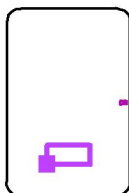
E_{min} / E_{max}
0.69

Room 1 / Badminton 4 Calculation Grid (PA) / Greyscale (E, Camera)



Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 10.050 m,
0.000 m)
Camera Position: (37.500 m,
29.600 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1322

E_{min} [lx]
1093

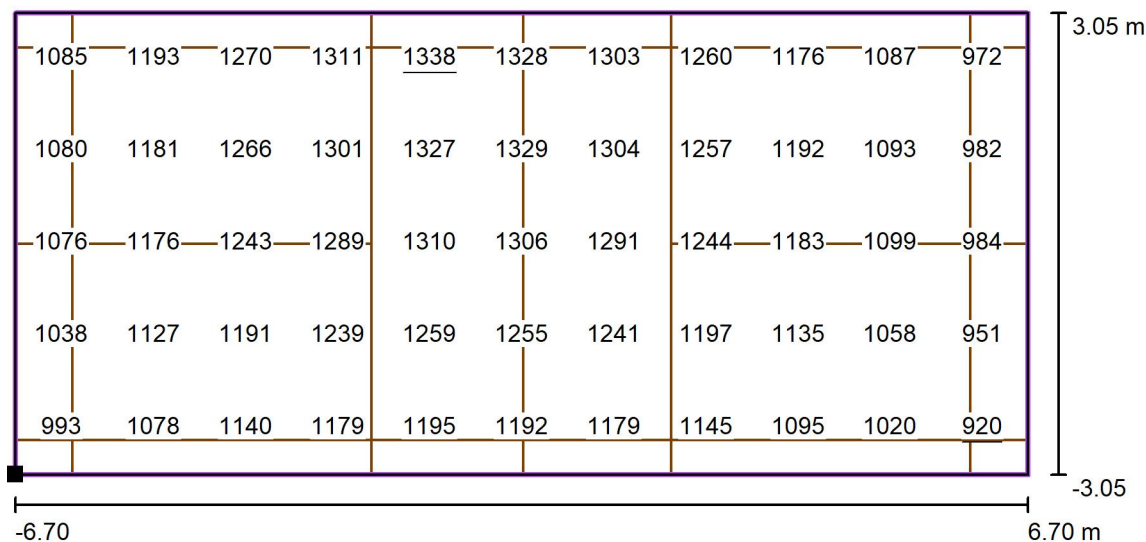
E_{max} [lx]
1475

u_0
0.83

E_{min} / E_{max}
0.74

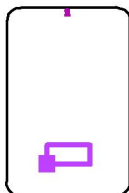
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 4 Calculation Grid (PA) / Value Chart (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 10.050 m, 0.000 m)
Camera Position: (19.200 m, 58.100 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1176

E_{min} [lx]
920

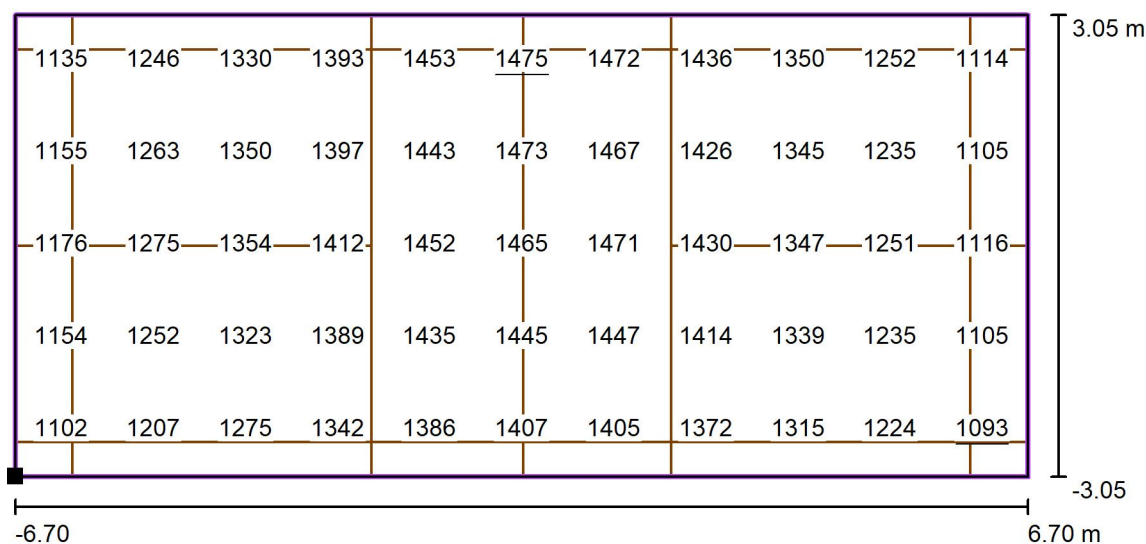
E_{max} [lx]
1338

u_0
0.78

E_{min} / E_{max}
0.69

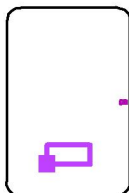
Operator
Telephone
Fax
e-Mail

Room 1 / Badminton 4 Calculation Grid (PA) / Value Chart (E, Camera)



Values in Lux, Scale 1 : 100

Position of surface in room:
Marked point: (12.900 m, 10.050 m,
0.000 m)
Camera Position: (37.500 m,
29.600 m, 10.000 m)



Grid: 11 x 5 Points

E_{av} [lx]
1322

E_{min} [lx]
1093

E_{max} [lx]
1475

u_0
0.83

E_{min} / E_{max}
0.74