

ML3359 - Clitheroe FC

MIDSTREAM LED PROPOSAL

REV04

Maintenance Factor: 0.9

4 x 16m Poles

Total Floodlights: 12 x Master MR15 AS (5000K)

Total Power Installed: 19.2 kW

Lighting Requirements: $E_{av}=200$ lux; $E_{min}/E_{av}=0.6$; $E_{min}/E_{max}=0.3$

Calculated Values: $E_{av}=200+$ lux; $E_{min}/E_{av}>0.6$; $E_{min}/E_{max}>0.3$

Date: 23.07.2024

Operator: MIDSTREAM LIGHTING LIMITED

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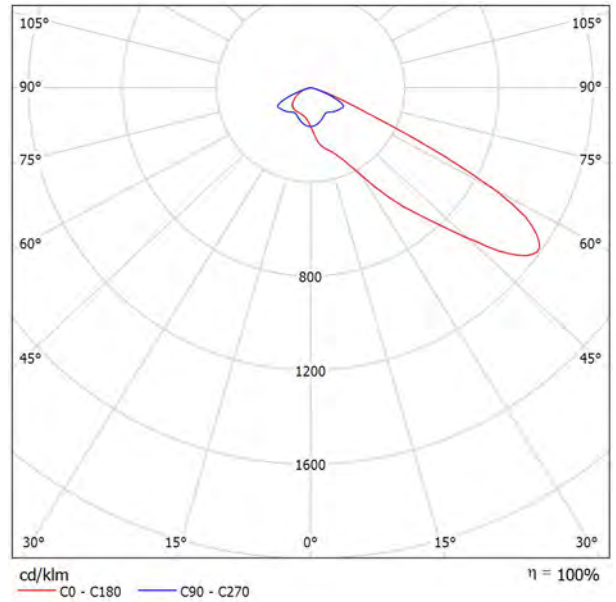
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MIDSTREAM - Master MR15 AS (5000K) / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



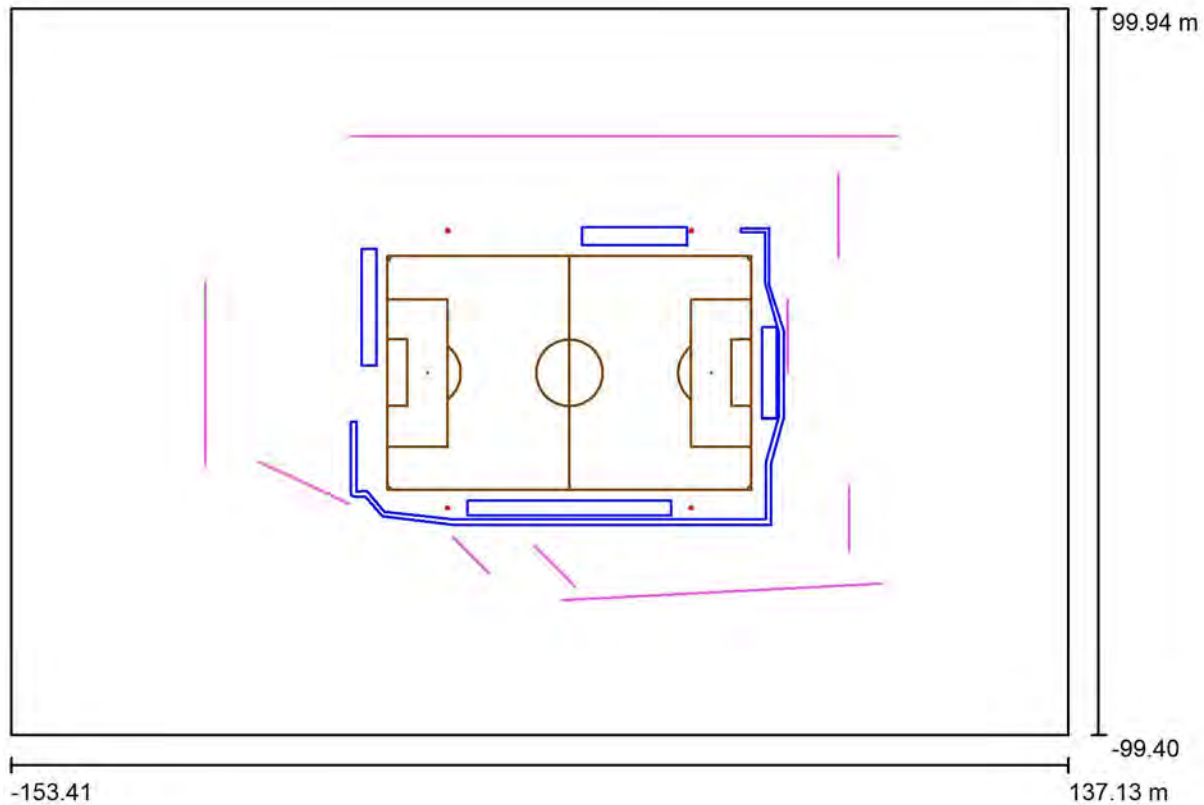
Luminaire classification according to CIE: 100
CIE flux code: 33 82 99 100 100

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

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Exterior Scene 1 / Planning data



Maintenance factor: 0.90, ULR (Upward Light Ratio): 0.0%

Scale 1:2078

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	12	MIDSTREAM - Master MR15 AS (5000K) (1.000)	230112	230112	1598.0
Total:			2761341	2761344	19176.0

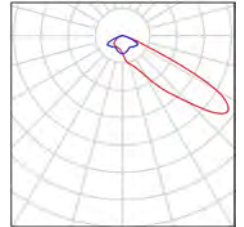
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Exterior Scene 1 / Luminaire parts list

12 Pieces MIDSTREAM - Master MR15 AS (5000K)
Article No.:
Luminous flux (Luminaire): 230112 lm
Luminous flux (Lamps): 230112 lm
Luminaire Wattage: 1598.0 W
Luminaire classification according to CIE: 100
CIE flux code: 33 82 99 100 100
Fitting: 1 x LED S7 (Correction Factor 1.000).

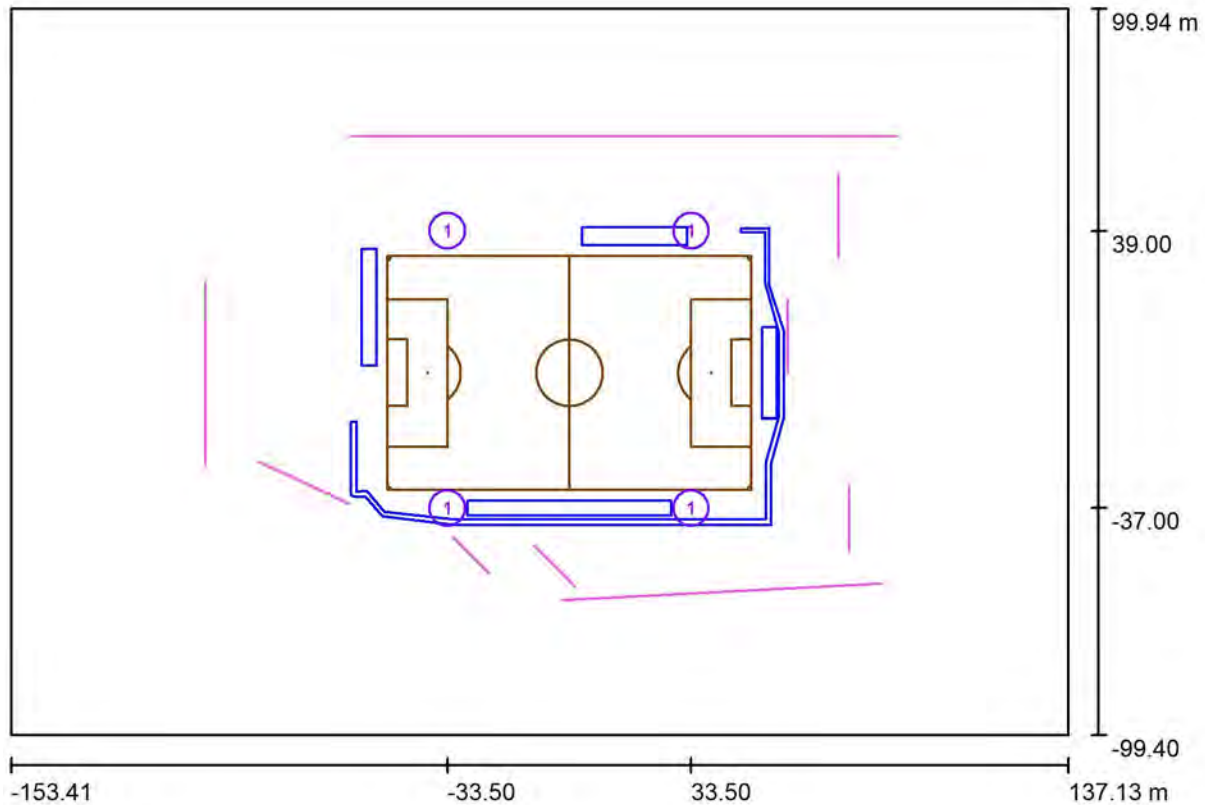
See our luminaire catalog
for an image of the
luminaire.



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Exterior Scene 1 / Luminaires (layout plan)



Scale 1 : 2078

Luminaire Parts List

No.	Pieces	Designation
1	12	MIDSTREAM - Master MR15 AS (5000K)

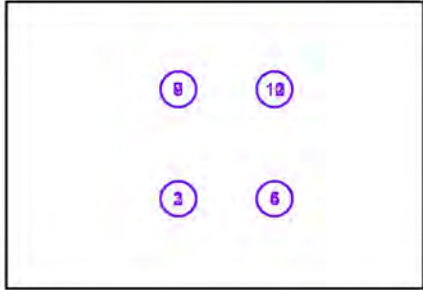
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Exterior Scene 1 / Luminaires (coordinates list)

MIDSTREAM - Master MR15 AS (5000K)

230112 lm, 1598.0 W, 1 x 1 x LED S7 (Correction Factor 1.000).

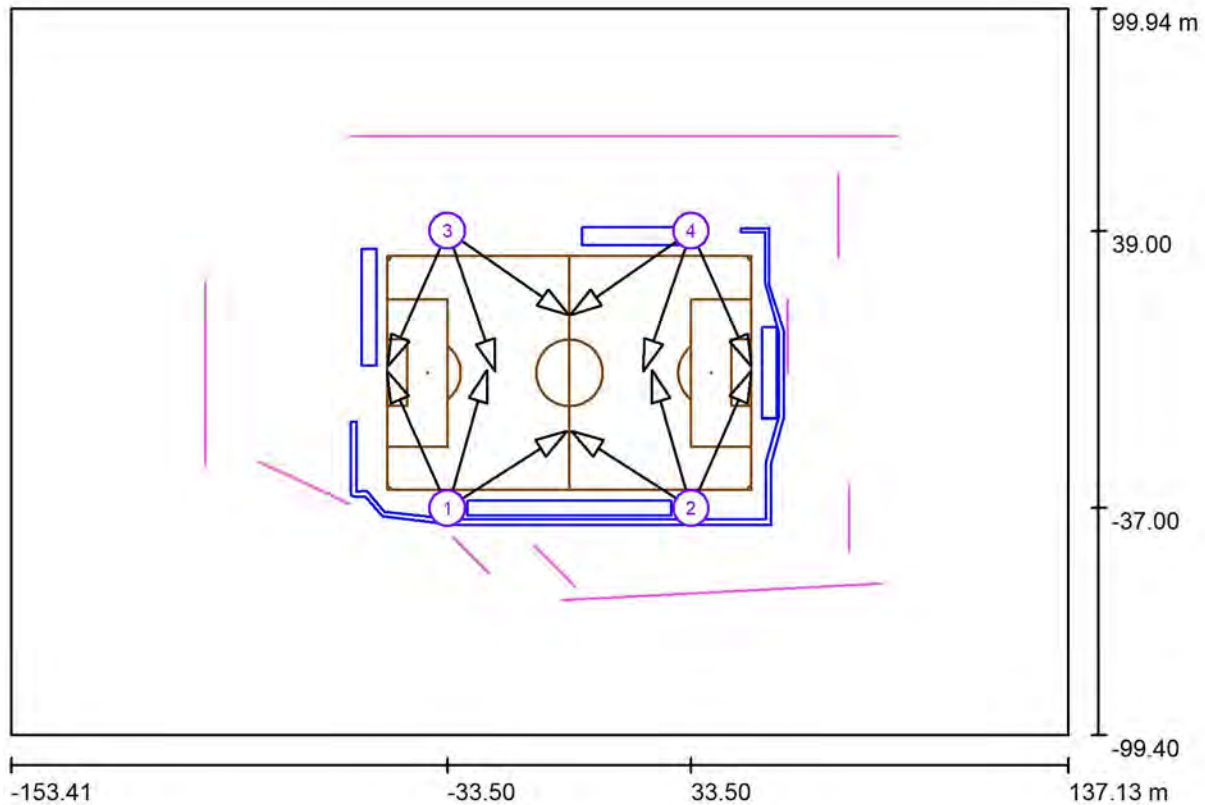


No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	-33.500	-37.000	16.000	0.0	-13.7	32.7
2	-33.500	-37.000	16.000	0.0	-14.7	113.8
3	-33.500	-37.000	16.000	0.0	-13.8	74.0
4	33.500	-37.000	16.000	0.0	-13.7	147.3
5	33.500	-37.000	16.000	0.0	-14.7	66.2
6	33.500	-37.000	16.000	0.0	-13.8	106.0
7	-33.500	39.000	16.000	0.0	-14.5	-34.9
8	-33.500	39.000	16.000	0.0	-14.6	-113.9
9	-33.500	39.000	16.000	0.0	-14.6	-71.2
10	33.500	39.000	16.000	0.0	-14.5	-145.1
11	33.500	39.000	16.000	0.0	-14.6	-66.1
12	33.500	39.000	16.000	0.0	-14.6	-108.8

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Exterior Scene 1 / Sport Luminaires (Coordinates List)



Scale 1 : 2078

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
MIDSTREAM - Master MR15 AS (5000K)	1	-33.500	-37.000	16.000	-0.605	-15.883	0.000	22.3	(C IMax, G IMax)	/
MIDSTREAM - Master MR15 AS (5000K)	1	-33.500	-37.000	16.000	-50.069	0.552	0.000	21.3	(C IMax, G IMax)	/
MIDSTREAM - Master MR15 AS (5000K)	1	-33.500	-37.000	16.000	-22.652	0.712	0.000	22.2	(C IMax, G IMax)	/
MIDSTREAM - Master MR15 AS (5000K)	2	33.500	-37.000	16.000	0.605	-15.883	0.000	22.3	(C IMax, G IMax)	/

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Exterior Scene 1 / Sport Luminaires (Coordinates List)

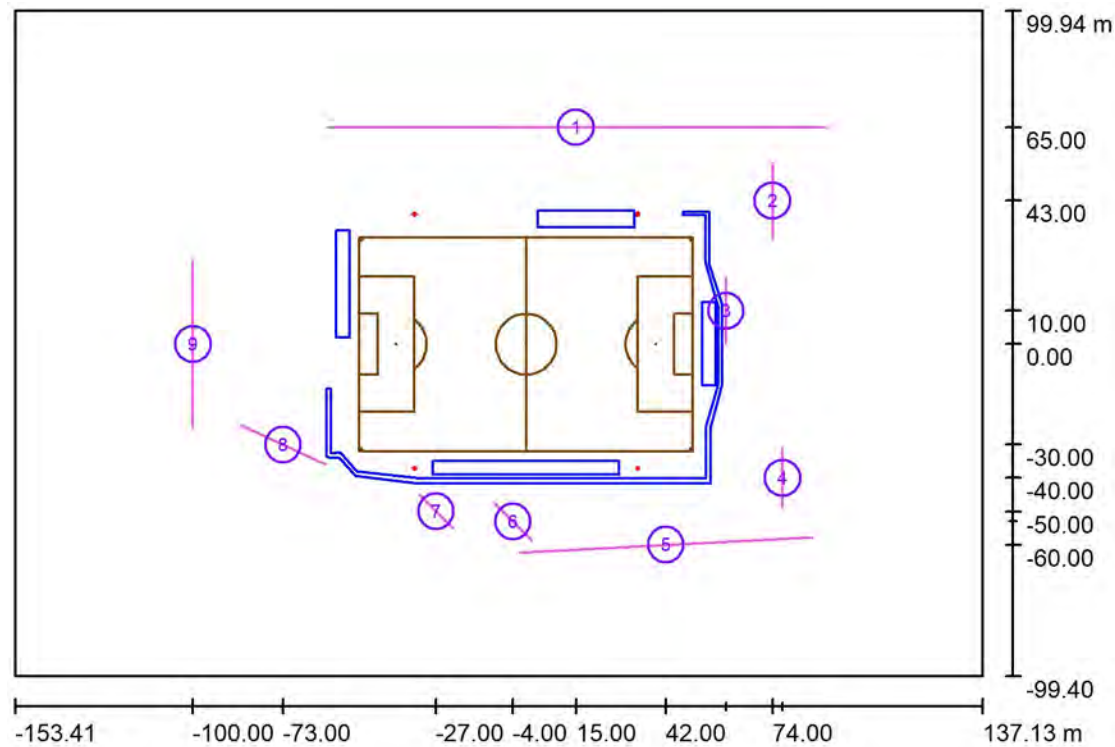
List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]			Angle [°]	Alignment	Pole
		X	Y	Z	X	Y	Z			
MIDSTREAM - Master MR15 AS (5000K)	2	33.500	-37.000	16.000	50.069	0.552	0.000	21.3	(C IMax, G IMax)	/
MIDSTREAM - Master MR15 AS (5000K)	2	33.500	-37.000	16.000	22.652	0.712	0.000	22.2	(C IMax, G IMax)	/
MIDSTREAM - Master MR15 AS (5000K)	3	-33.500	39.000	16.000	-0.204	15.784	0.000	21.5	(C IMax, G IMax)	Pole Position 4
MIDSTREAM - Master MR15 AS (5000K)	3	-33.500	39.000	16.000	-49.989	1.754	0.000	21.4	(C IMax, G IMax)	Pole Position 4
MIDSTREAM - Master MR15 AS (5000K)	3	-33.500	39.000	16.000	-20.327	0.391	0.000	21.4	(C IMax, G IMax)	Pole Position 4
MIDSTREAM - Master MR15 AS (5000K)	4	33.500	39.000	16.000	0.204	15.784	0.000	21.5	(C IMax, G IMax)	/
MIDSTREAM - Master MR15 AS (5000K)	4	33.500	39.000	16.000	49.989	1.754	0.000	21.4	(C IMax, G IMax)	/
MIDSTREAM - Master MR15 AS (5000K)	4	33.500	39.000	16.000	20.327	0.391	0.000	21.4	(C IMax, G IMax)	/

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Exterior Scene 1 / Calculation surfaces (results overview)



Scale 1 : 2269

Calculation Surface List

No.	Designation	Type	Grid	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
1	Spill Light - Houses 1	perpendicular	30 x 2	23	4.59	37	0.202	0.125
2	Spill Light - Houses 2	perpendicular	5 x 2	20	12	27	0.597	0.436
3	Spill Light - Houses 3	perpendicular	5 x 2	81	14	118	0.173	0.119
4	Spill Light - Houses 4	perpendicular	4 x 2	17	13	22	0.733	0.588
5	Spill Light - Houses 5	perpendicular	30 x 2	26	5.71	48	0.219	0.120
6	Spill Light - Houses 6	perpendicular	30 x 2	26	23	29	0.899	0.817
7	Spill Light - Houses 7	perpendicular	4 x 2	60	39	93	0.651	0.420
8	Spill Light - Houses 8	perpendicular	6 x 2	21	13	31	0.623	0.425
9	Spill Light - Houses 9	perpendicular	10 x 2	10	8.40	11	0.824	0.731

Summary of Results

Type	Quantity	Average [lx]	Min [lx]	Max [lx]	u0	E_{min} / E_{max}
perpendicular	9	26	4.59	118	0.18	0.04



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Exterior Scene 1 / 3D Rendering

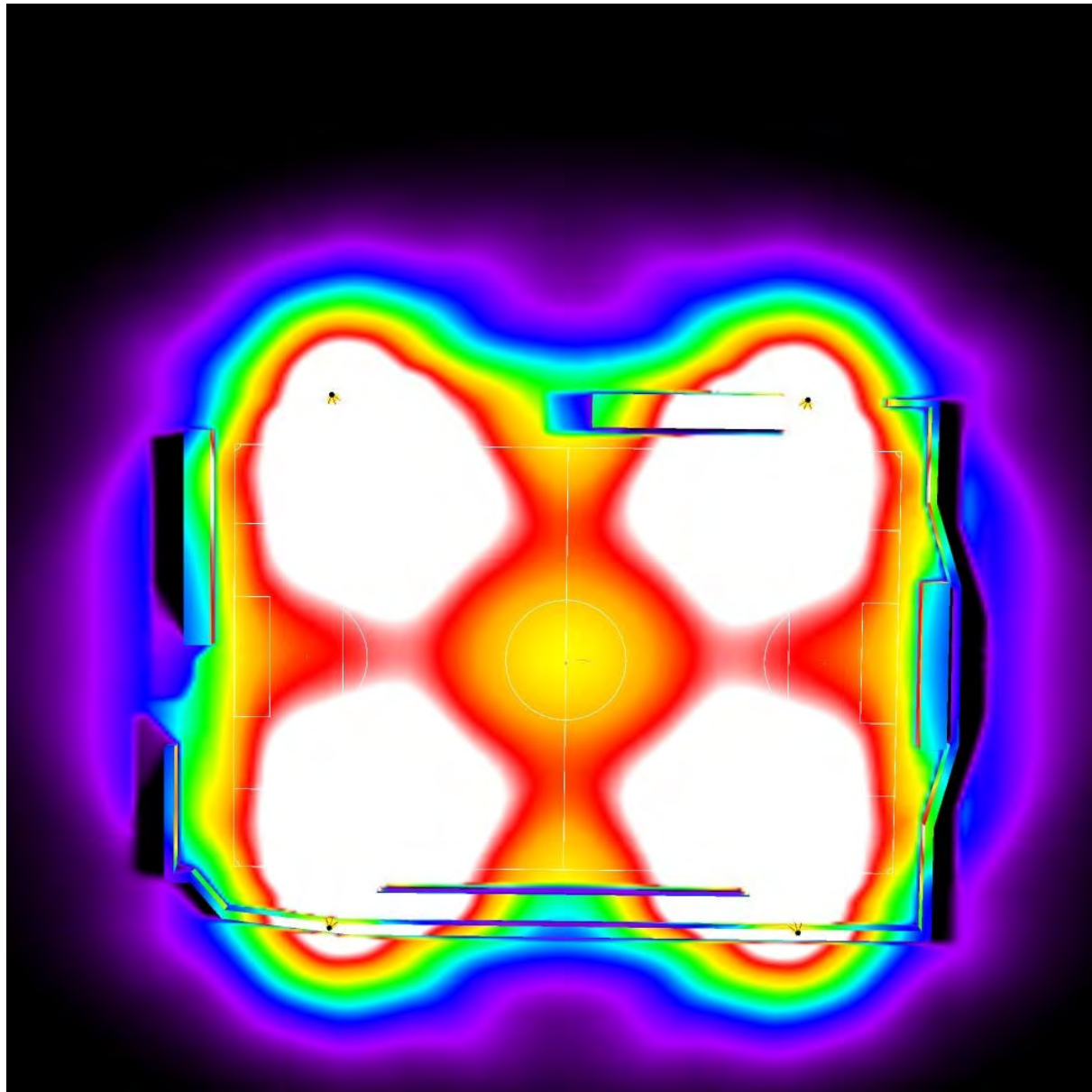




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Exterior Scene 1 / False Colour Rendering



3.01 27.63 52.26 76.88 101.50 126.13 150.75 175.38 200

lx

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Exterior Scene 1 / Spill Light - Houses 1 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point:
 (-60.000 m, 65.000 m, 0.000 m)



3.000	13	15	18	21	29	32	33	29	29	29
1.000	16	18	22	25	33	<u>37</u>	36	33	34	34
m	2.500	7.500	12.500	17.500	22.500	27.500	32.500	37.500	42.500	47.500

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

Grid: 30 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
23	4.59	37	0.202	0.125



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Exterior Scene 1 / Spill Light - Houses 1 / Table (E, Perpendicular)



3.000	27	24	24	26	28	29	30	31	32	26
1.000	31	27	28	30	32	33	34	35	36	30
m	52.500	57.500	62.500	67.500	72.500	77.500	82.500	87.500	92.500	97.500

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

Grid: 30 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
23	4.59	37	0.202	0.125

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Exterior Scene 1 / Spill Light - Houses 1 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point:
 (-60.000 m, 65.000 m, 0.000 m)



3.000	23	19	16	10	9.22	8.43	6.14	5.55	4.94	<u>4.59</u>
1.000	27	23	20	13	11	9.55	7.09	6.34	5.42	5.03
m	102.500	107.500	112.500	117.500	122.500	127.500	132.500	137.500	142.500	147.500

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

Grid: 30 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
23	4.59	37	0.202	0.125

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Exterior Scene 1 / Spill Light - Houses 2 / Table (E, Perpendicular)

Position of surface in external scene:
 Marked point:
 (74.000 m, 54.500 m, 0.000 m)



3.000	<u>12</u>	15	20	21	24
1.000	14	18	24	24	<u>27</u>
m	2.300	6.900	11.500	16.100	20.700

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

Grid: 5 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
20	12	27	0.597	0.436

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Exterior Scene 1 / Spill Light - Houses 3 / Table (E, Perpendicular)

Position of surface in external scene:
 Marked point:
 (60.000 m, 20.000 m, 0.000 m)



3.000	<u>118</u>	113	106	104	103
1.000	112	85	<u>14</u>	29	29
m	2.000	6.000	10.000	14.000	18.000

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

Grid: 5 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
81	14	118	0.173	0.119

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Exterior Scene 1 / Spill Light - Houses 4 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point:
 (77.000 m, -31.000 m, 0.000 m)



3.000	18	17	16	<u>13</u>
1.000	<u>22</u>	20	18	15
m	2.250	6.750	11.250	15.750

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

Grid: 4 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
17	13	22	0.733	0.588

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Exterior Scene 1 / Spill Light - Houses 5 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point:
 (-1.940 m, -62.303 m, 4.000 m)



3.000	28	28	30	33	37	39	40	41	41	44
1.000	24	24	26	27	31	34	36	37	38	39
m	1.467	4.400	7.333	10.267	13.200	16.133	19.067	22.000	24.933	27.867

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

Grid: 30 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
26	5.71	48	0.219	0.120

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Exterior Scene 1 / Spill Light - Houses 5 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point:
 (-1.940 m, -62.303 m, 4.000 m)



3.000	46	<u>48</u>	<u>48</u>	45	41	34	32	28	25	20
1.000	42	43	43	40	37	30	28	24	21	16
m	30.800	33.733	36.667	39.600	42.533	45.467	48.400	51.333	54.267	57.200

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

Grid: 30 x 2 Points

E_{av} [lx]
26

E_{min} [lx]
5.71

E_{max} [lx]
48

u_0
0.219

E_{min} / E_{max}
0.120

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Exterior Scene 1 / Spill Light - Houses 5 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point:
 (-1.940 m, -62.303 m, 4.000 m)



3.000	18	16	15	11	9.84	9.28	7.64	7.31	6.76	6.48
1.000	15	13	12	9.27	8.57	8.15	6.64	6.38	5.92	<u>5.71</u>
m	60.133	63.067	66.000	68.933	71.867	74.800	77.733	80.667	83.600	86.533

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

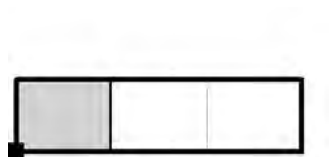
Grid: 30 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
26	5.71	48	0.219	0.120

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Exterior Scene 1 / Spill Light - Houses 6 / Table (E, Perpendicular)



 Current Selection
 Further Selections

Position of surface in external scene:
 Marked point:
 (-9.657 m, -47.343 m, 4.000 m)



3.000	26	26	26	26	27	27	27	27	27	27
1.000	<u>29</u>	<u>29</u>	28	28	28	28	28	27	27	27
m	0.267	0.800	1.333	1.867	2.400	2.933	3.467	4.000	4.533	5.067

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

Grid: 30 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
26	23	29	0.899	0.817

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Exterior Scene 1 / Spill Light - Houses 6 / Table (E, Perpendicular)



 Current Selection
 Further Selections

Position of surface in external scene:
 Marked point:
 (-9.657 m, -47.343 m, 4.000 m)



3.000	27	27	27	27	27	26	26	26	26	26
1.000	27	27	27	27	27	24	24	24	24	<u>23</u>
m	5.600	6.133	6.667	7.200	7.733	8.267	8.800	9.333	9.867	10.400

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

Grid: 30 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
26	23	29	0.899	0.817

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Exterior Scene 1 / Spill Light - Houses 6 / Table (E, Perpendicular)



☒ Current Selection
☐ Further Selections

Position of surface in external scene:
 Marked point:
 (-9.657 m, -47.343 m, 4.000 m)



3.000	26	26	26	26	26	26	27	27	27	27
1.000	<u>23</u>	<u>23</u>	<u>23</u>	24	24	24	24	24	24	24
m	10.933	11.467	12.000	12.533	13.067	13.600	14.133	14.667	15.200	15.733

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

Grid: 30 x 2 Points

E_{av} [lx]
26

E_{min} [lx]
23

E_{max} [lx]
29

u_0
0.899

E_{min} / E_{max}
0.817

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Exterior Scene 1 / Spill Light - Houses 7 / Table (E, Perpendicular)



Position of surface in external scene:
 Marked point:
 (-31.950 m, -45.050 m, 4.000 m)



3.000	77	63	50	<u>39</u>
1.000	<u>93</u>	67	52	<u>39</u>
m	1.750	5.250	8.750	12.250

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

Grid: 4 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
60	39	93	0.651	0.420

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Exterior Scene 1 / Spill Light - Houses 8 / Table (E, Perpendicular)

Position of surface in external scene:
 Marked point:
 (-85.688 m, -24.083 m, 4.000 m)



3.000	15	19	21	24	26	28
1.000	<u>13</u>	16	18	21	23	<u>31</u>
m	2.333	7.000	11.667	16.333	21.000	25.667

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

Grid: 6 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
21	13	31	0.623	0.425



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Exterior Scene 1 / Spill Light - Houses 9 / Table (E, Perpendicular)



Position of surface in external scene:
Marked point:
(-100.000 m, 25.000 m, 4.000 m)



3.000	9.63	10	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	<u>11</u>	10	9.46
1.000	8.54	9.42	10	10	10	10	9.94	9.85	9.17	<u>8.40</u>
m	2.500	7.500	12.500	17.500	22.500	27.500	32.500	37.500	42.500	47.500

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

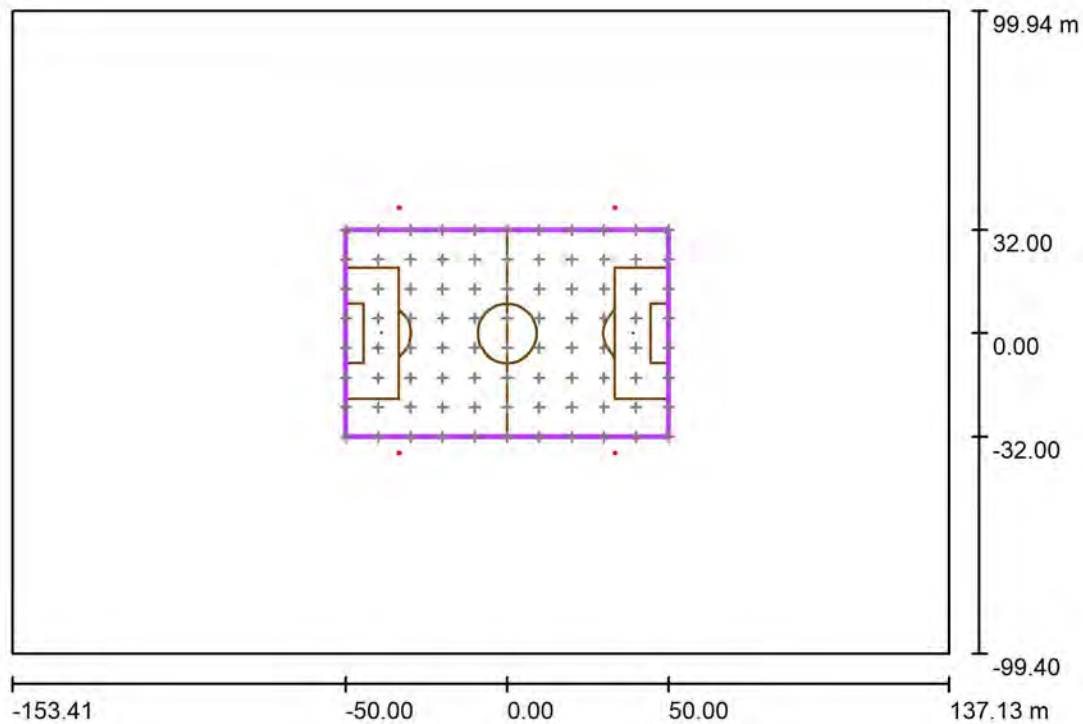
Grid: 10 x 2 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
10	8.40	11	0.824	0.731

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Exterior Scene 1 / Soccer Field 1 Calculation Grid (PA) / Summary



Scale 1 : 2346

Position: (0.000 m, 0.000 m, 0.000 m)
 Size: (100.000 m, 64.000 m)
 Rotation: (0.0°, 0.0°, 0.0°)
 Type: Normal, Grid: 11 x 8 Points
 Belongs to the following sport arena: Soccer Field 1

Results overview

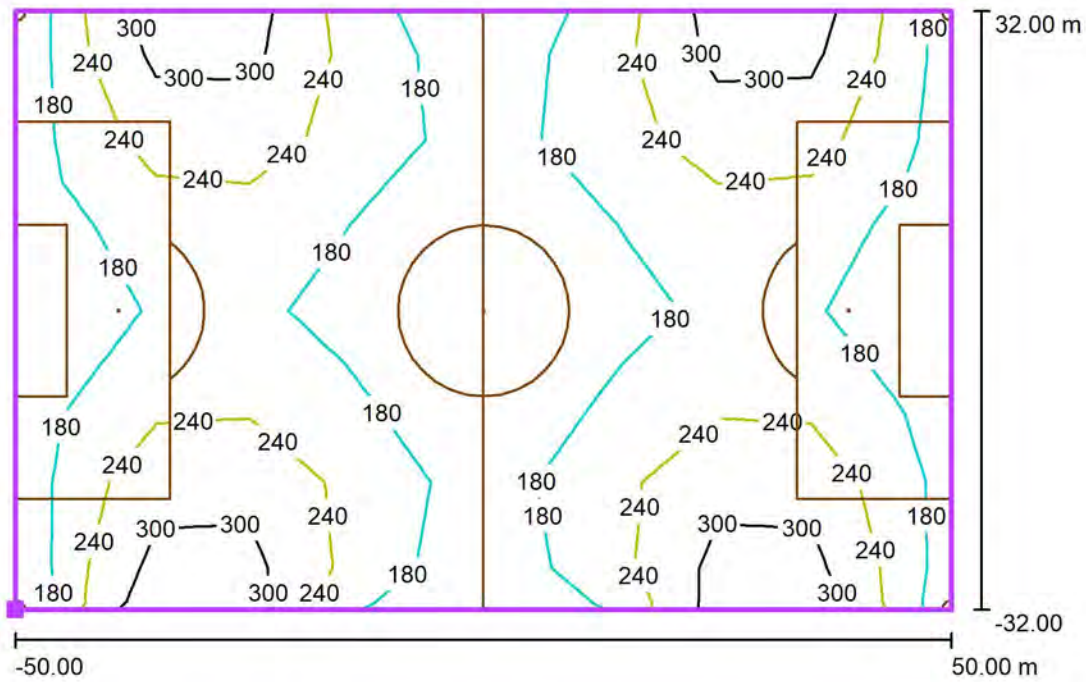
No.	Type	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$	E_{min} / E_{max}	$E_{h\ m} / E_m$	H [m]	Camera
1	horizontal	211	131	395	0.62	0.33	/	0.000	/

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

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Exterior Scene 1 / Soccer Field 1 Calculation Grid (PA) / Isolines (E, Horizontal)



Values in Lux, Scale 1 : 808

Position of surface in external scene:
 Marked point: (-50.000 m, -32.000 m,
 0.000 m)



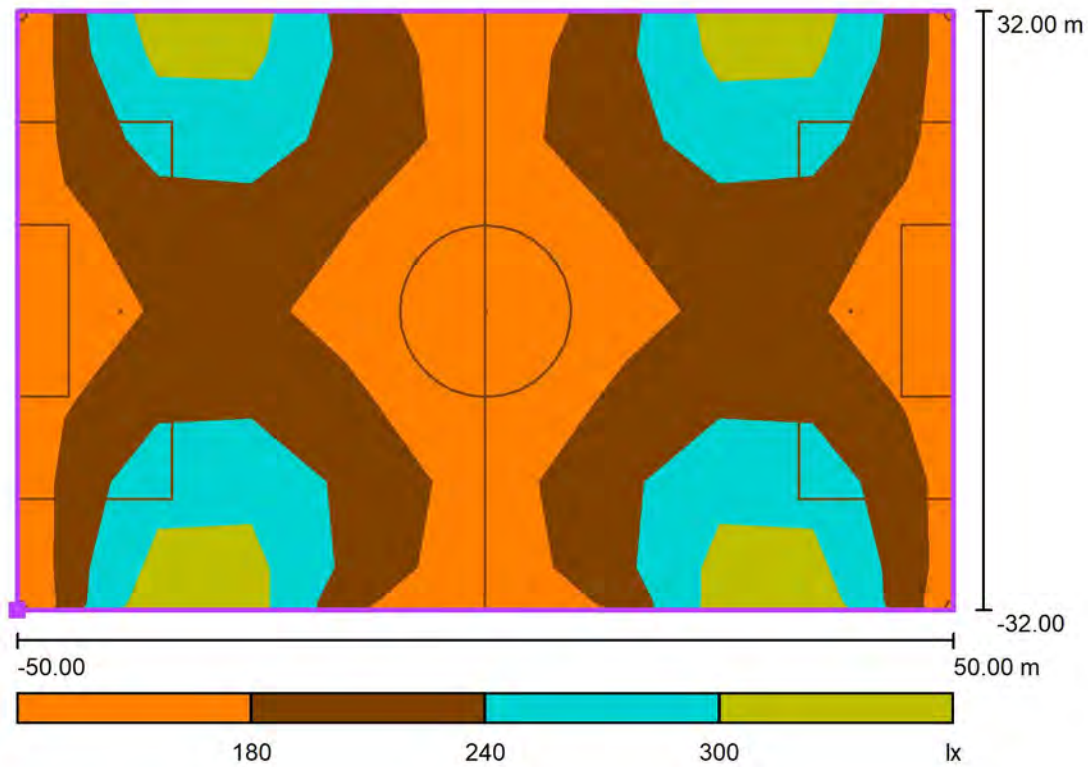
Grid: 11 x 8 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
211	131	395	0.62	0.33

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Exterior Scene 1 / Soccer Field 1 Calculation Grid (PA) / Greyscale (E, Horizontal)



Scale 1 : 808

Position of surface in external scene:
 Marked point: (-50.000 m, -32.000 m,
 0.000 m)



Grid: 11 x 8 Points

E_{av} [lx]
 211

E_{min} [lx]
 131

E_{max} [lx]
 395

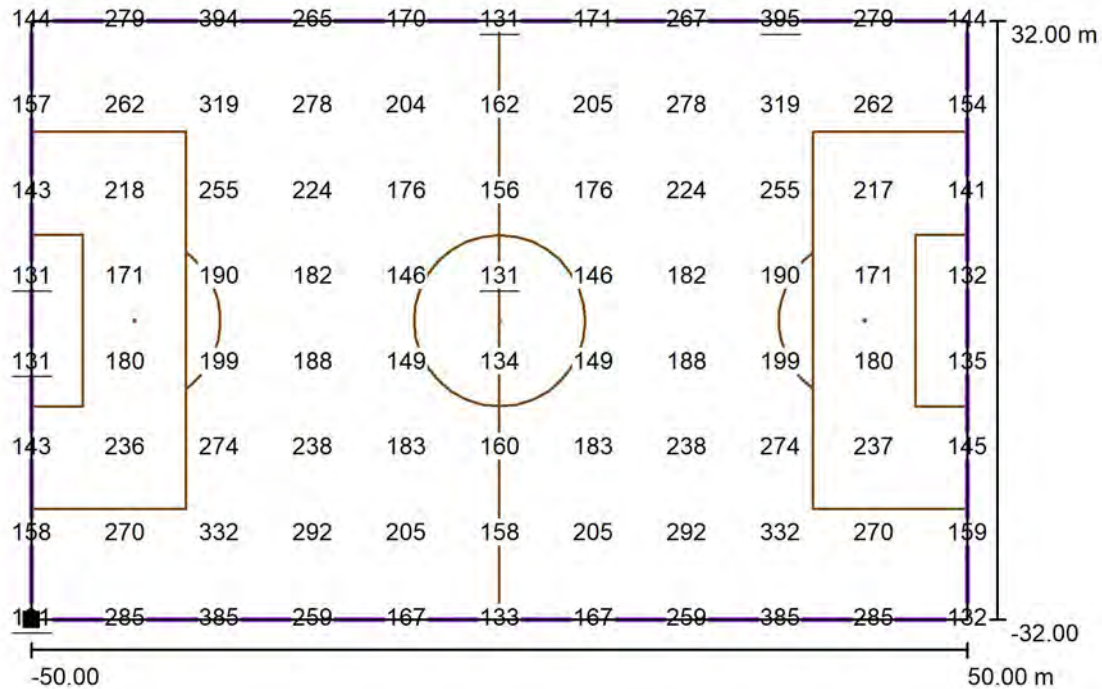
u_0
 0.62

E_{min} / E_{max}
 0.33

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Exterior Scene 1 / Soccer Field 1 Calculation Grid (PA) / Value Chart (E, Horizontal)



Values in Lux, Scale 1 : 808

Position of surface in external scene:
 Marked point: (-50.000 m, -32.000 m,
 0.000 m)



Grid: 11 x 8 Points

E_{av} [lx]
211

E_{min} [lx]
131

E_{max} [lx]
395

u_0
0.62

E_{min} / E_{max}
0.33