

ORLIK 2012

KRASZEWO

Date:	29-03-2010
Customer:	Usługi Projektowe
Customer Representative:	A.Skarżyński
Designer:	Krzysztof Woźniak

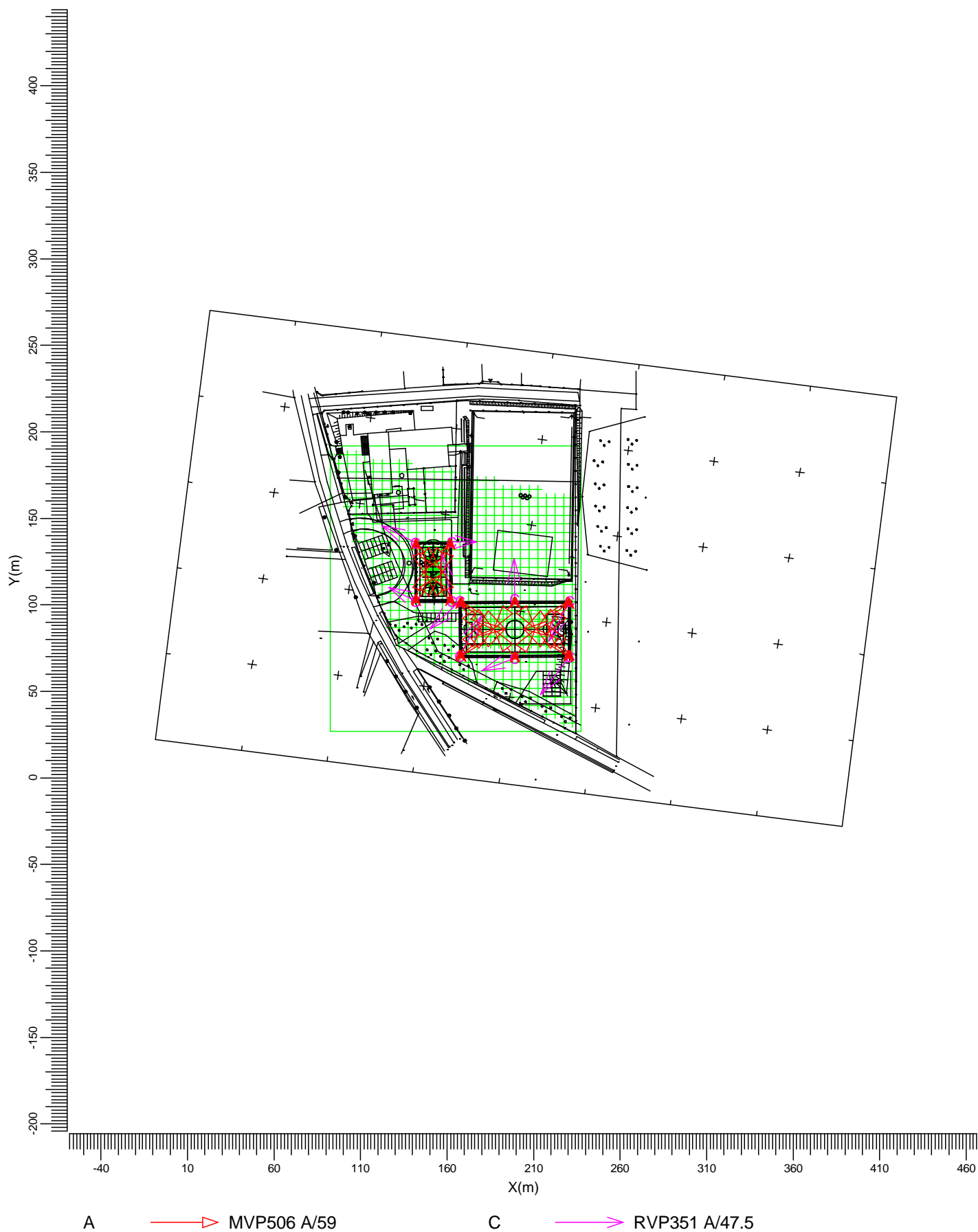
The nominal values shown in this report are the result of precision calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties and electrical supply.

Table of Contents

1.	Project Description	3
1.1	Top Project Overview	3
2.	Summary	4
2.1	General Information	4
2.2	Project Luminaires	4
2.3	Calculation Results	4
3.	Calculation Results	5
3.1	Boisko do piłki nożnej: Filled Iso Contour	5
3.2	Boisko do koszykówki: Filled Iso Contour	6
3.3	Boisko do siatkówki: Filled Iso Contour	7
3.4	Teren: Filled Iso Contour	8
4.	Luminaire Details	9
4.1	Project Luminaires	9
5.	Installation Data	10
5.1	Legends	10
5.2	Luminaire Positioning and Orientation	10

1. Project Description

1.1 Top Project Overview



Scale
1:3000

2. Summary

2.1 General Information

The overall maintenance factor used for this project is 0.80.

2.2 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
A	24	MVP506 A/59	1 * HPI-TP250W	321.0	1 * 25000
C	10	RVP351 A/47.5	1 * SON-T250W	274.0	1 * 28000

The total installed power: 10.44 (kWatt)

Number of Luminaires Per Switching Mode:

Switching Mode	Luminaire Code		Power (kWatt)
	A	C	
Boisko do piłki nożnej	16	0	5.14
Boisko do koszykówki	8	0	2.57
Boisko do siatkówki	8	0	2.57
Teren	0	10	2.74

2.3 Calculation Results

Switching Modes:

Code	Switching Mode
1	Boisko do piłki nożnej
2	Boisko do koszykówki
3	Boisko do siatkówki
4	Teren

(II)luminance Calculations:

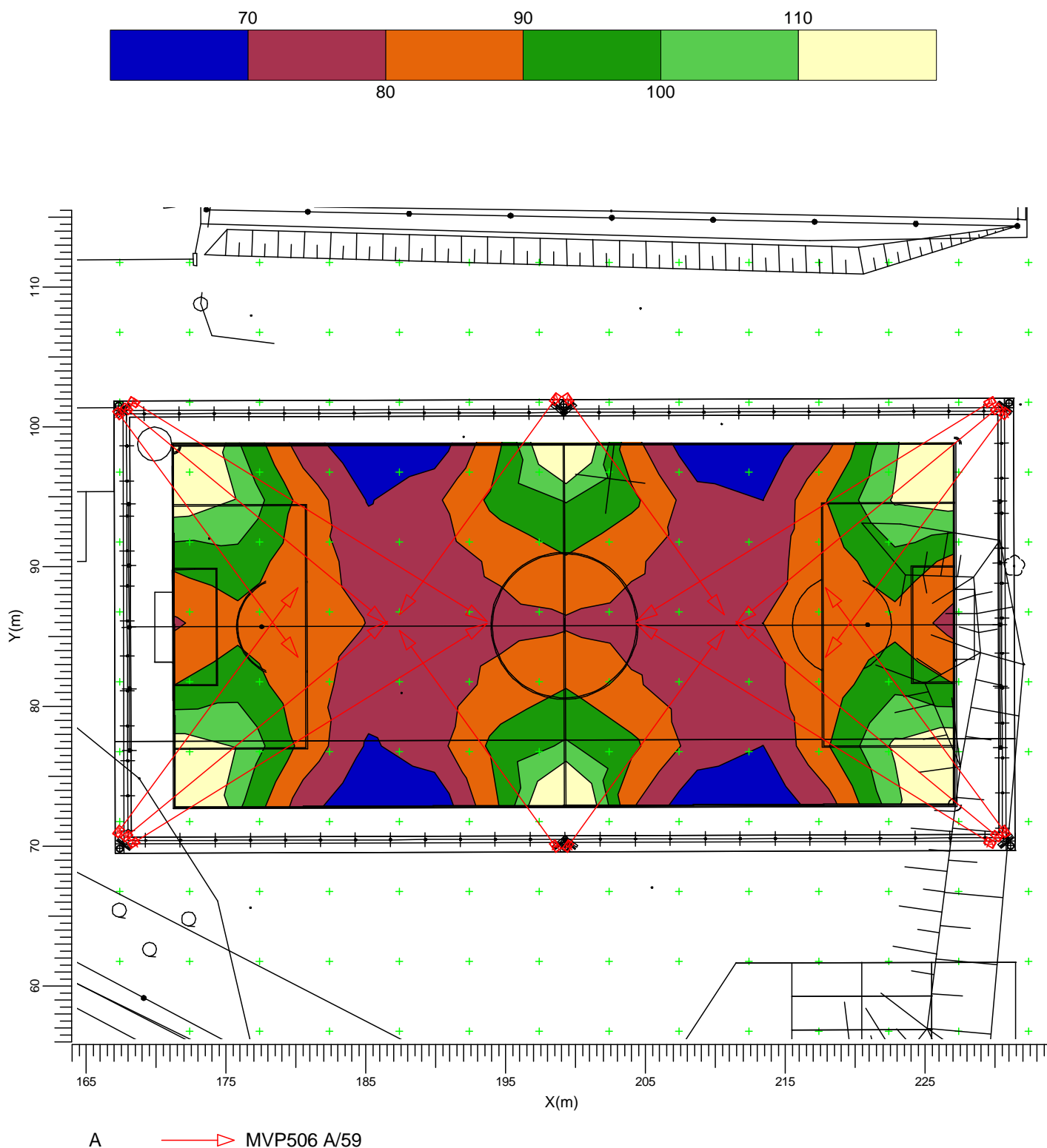
Calculation	Switching Mode	Type	Unit	Ave	Min/Ave	Min/Max
Boisko do piłki nożnej	1	Surface Illuminance	lux	85.0	0.81	0.61
Boisko do koszykówki	2	Surface Illuminance	lux	110	0.95	0.91
Boisko do siatkówki	3	Surface Illuminance	lux	110	0.97	0.93
Teren	4	Surface Illuminance	lux	8.33	0.03	0.00

3. Calculation Results

3.1 Boisko do pi³ki no¿nej: Filled Iso Contour

Boisko do pi³ki no¿nej

Grid : Boisko do pi³ki no¿nej at Z = -0.00 m
 Calculation : Surface Illuminance (lux)



Average
85.0

Min/Ave
0.81

Min/Max
0.61

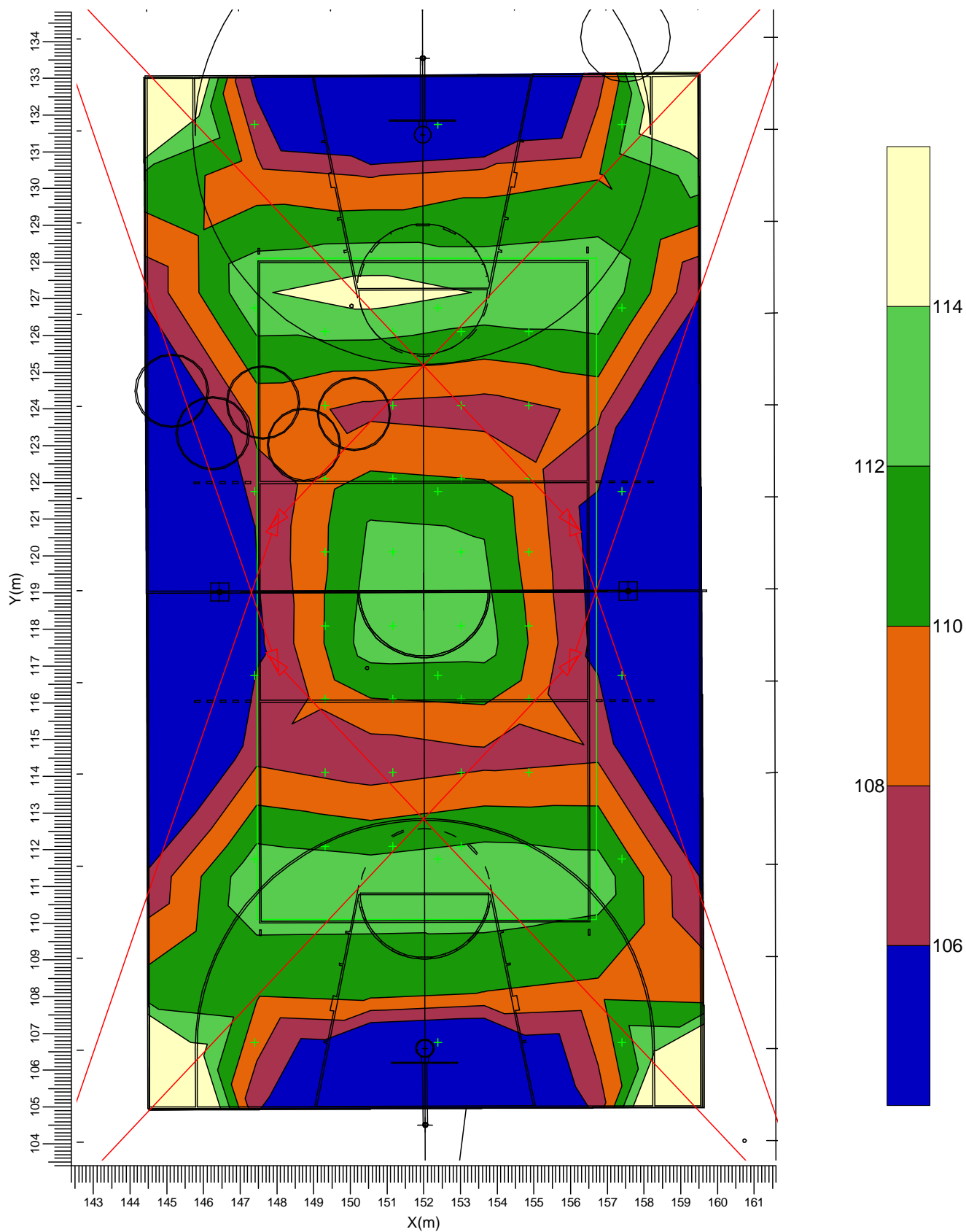
Project maintenance factor
0.80

Scale
1:400

3.2 Boisko do koszykówki: Filled Iso Contour

Boisko do koszykówki

Grid : Boisko do koszykówki at Z = -0.00 m
 Calculation : Surface Illuminance (lux)



A ———> MVP506 A/59

Average
110

Min/Ave
0.95

Min/Max
0.91

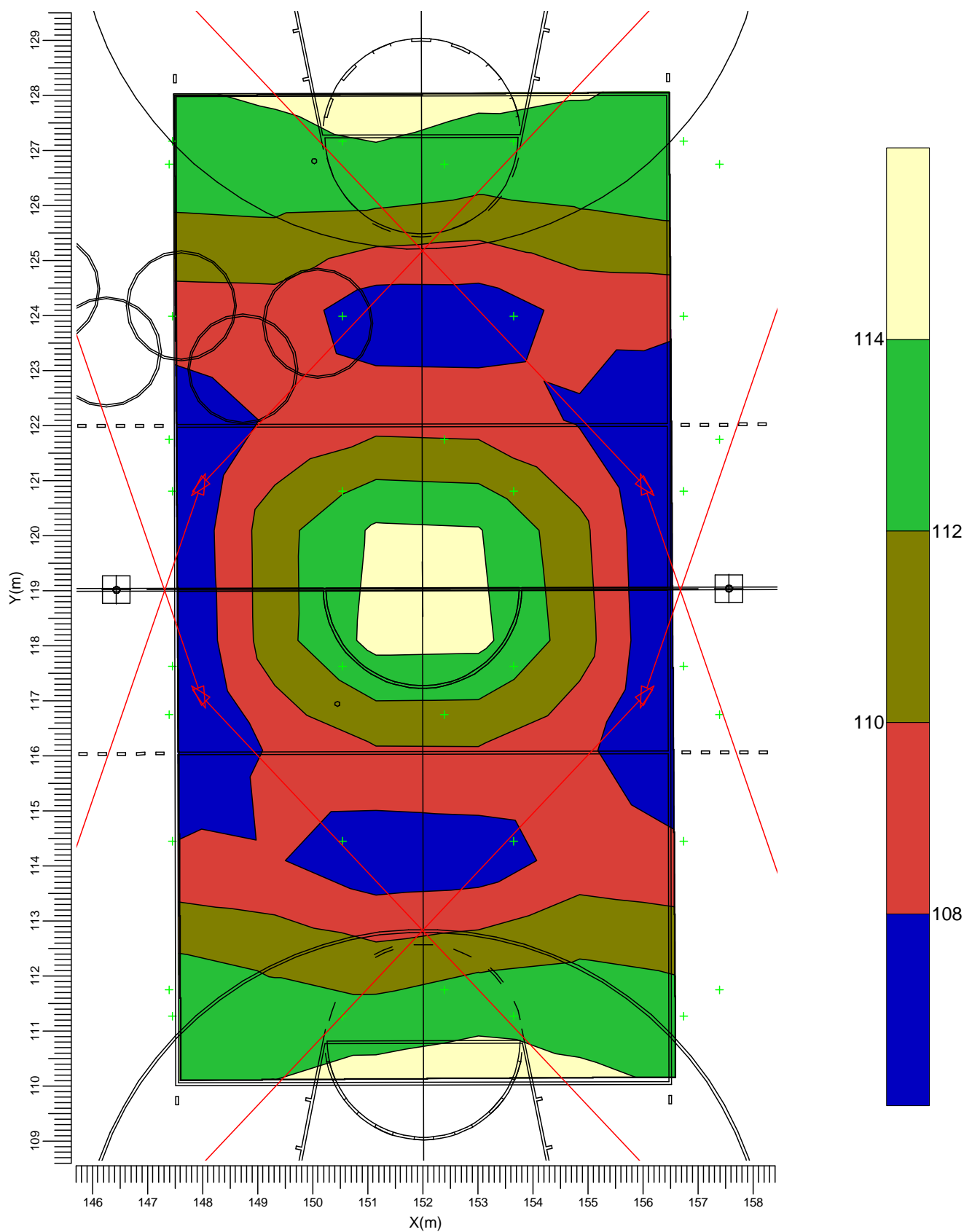
Project maintenance factor
0.80

Scale
1:150

3.3 Boisko do siatkówki: Filled Iso Contour

Boisko do siatkówki

Grid : Boisko do siatkówki at Z = -0.00 m
 Calculation : Surface Illuminance (lux)



A MVP506 A/59

Average
110

Min/Ave
0.97

Min/Max
0.93

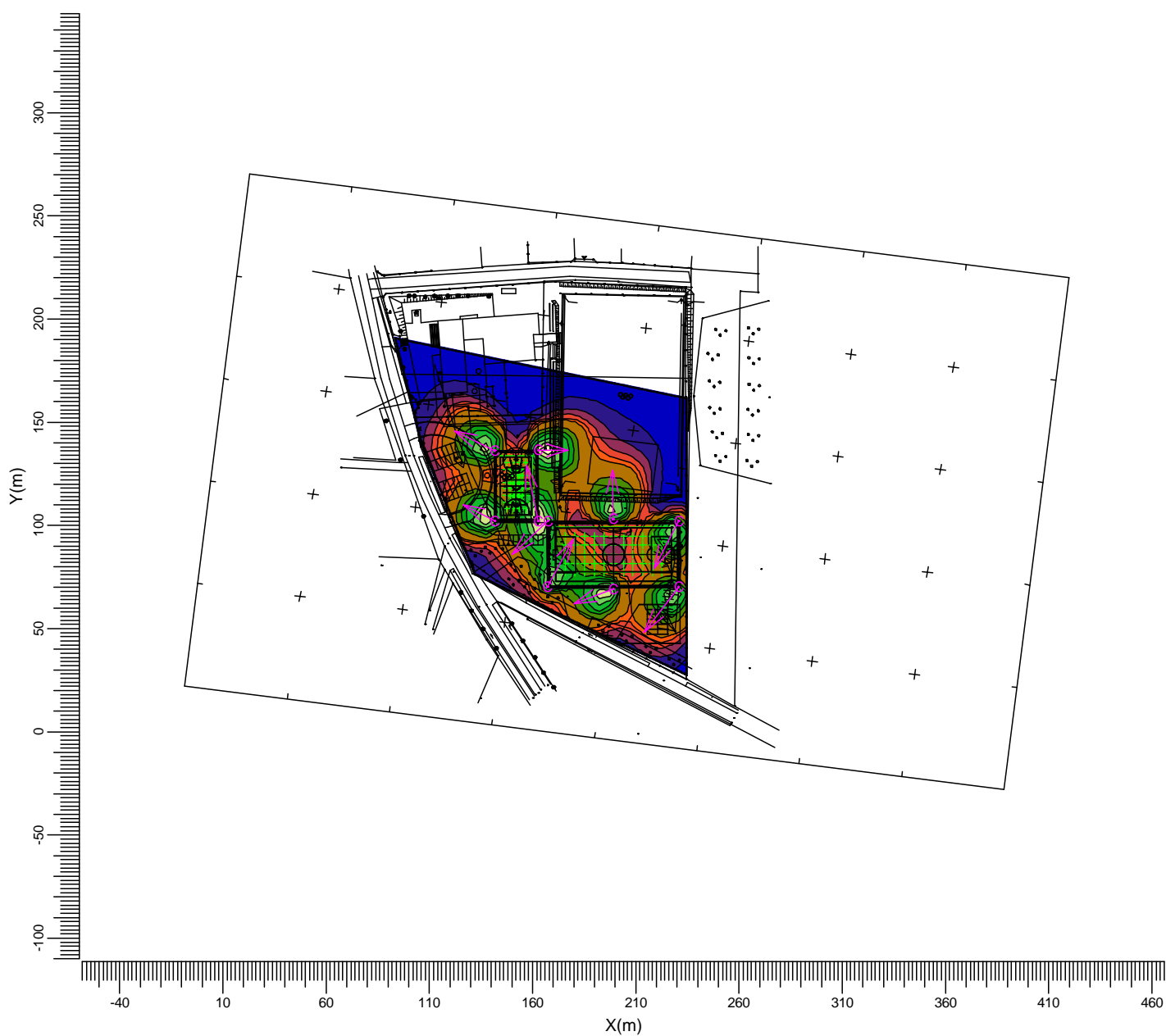
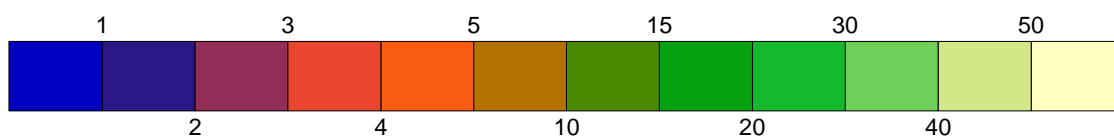
Project maintenance factor
0.80

Scale
1:100

3.4 Teren: Filled Iso Contour

Teren

Grid : Teren at Z = -0.00 m
 Calculation : Surface Illuminance (lux)



C → RVP351 A/47.5

Average
8.33

Min/Ave
0.03

Min/Max
0.00

Project maintenance factor
0.80

Scale
1:3000

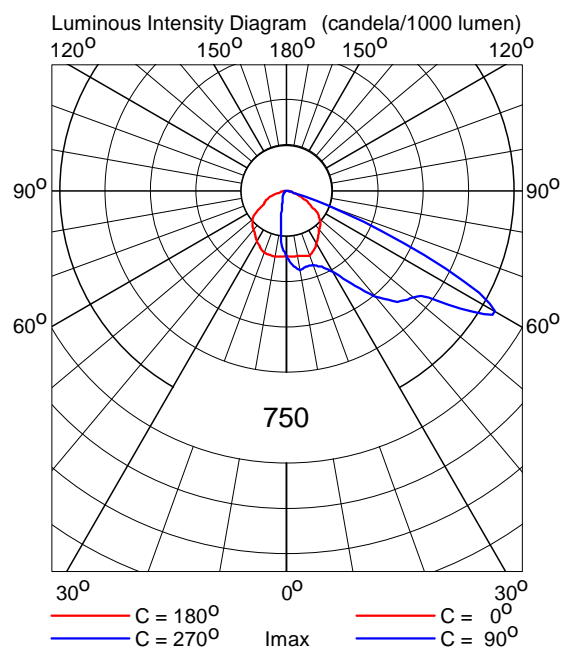
4. Luminaire Details

4.1 Project Luminaires

OptiFlood MVP506
MVP506 1xHPI-TP250W SGR A/59



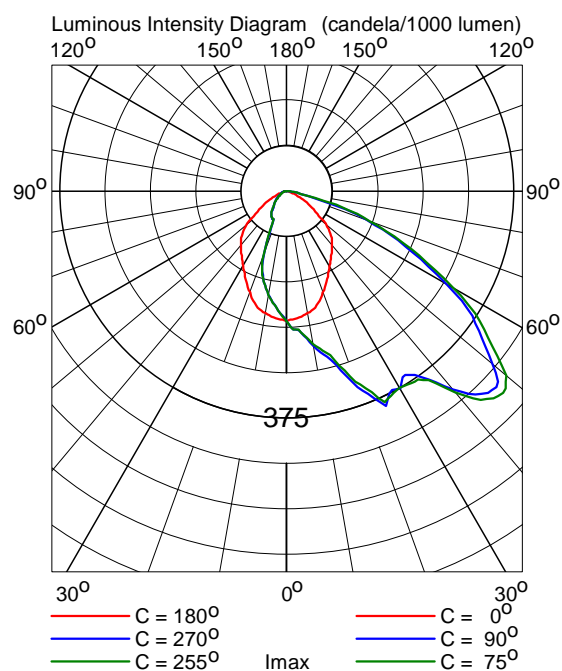
Light output ratios
 DLOR : 0.82
 ULOR : 0.00
 TLOR : 0.82
 Ballast : SON gear
 Lamp flux : 25000 lm
 Luminaire wattage : 321.0 W
 Measurement code : LVMA428400



Tempo 3
RVP351 1xSON-T250W A/47.5



Light output ratios
 DLOR : 0.64
 ULOR : 0.00
 TLOR : 0.64
 Ballast : Conventional
 Lamp flux : 28000 lm
 Luminaire wattage : 274.0 W
 Measurement code : LVC0602453



5. Installation Data

5.1 Legends

Project Luminaires:

Code	Qty	Luminaire Type	Lamp Type	Flux (lm)
A	24	MVP506 A/59	1 * HPI-TP250W	1 * 25000
C	10	RVP351 A/47.5	1 * SON-T250W	1 * 28000

Switching Modes:

Code	Switching Mode
1	Boisko do piłki nożnej
2	Boisko do koszykówki
3	Boisko do siatkówki
4	Teren

5.2 Luminaire Positioning and Orientation

Qty and Code	Position			Aiming Angles			Switching Modes			
	X (m)	Y (m)	Z (m)	Rot.	Tilt90	Tilt0	1	2	3	4
1 * C	141.55	102.15	9.00	152.6	62.0	0.0	-	-	-	+
1 * C	141.58	136.21	9.00	154.0	67.4	0.0	-	-	-	+
1 * A	141.83	103.07	9.00	71.0	64.8	0.0	-	+	+	-
1 * A	141.83	134.93	9.00	-71.0	64.8	-0.0	-	+	+	-
1 * A	142.36	102.62	9.00	46.6	65.9	0.0	-	+	+	-
1 * A	142.36	135.38	9.00	-46.6	65.9	-0.0	-	+	+	-
1 * A	161.64	102.62	9.00	133.4	65.9	-0.0	-	+	+	-
1 * A	161.64	135.38	9.00	-133.4	65.9	0.0	-	+	+	-
1 * A	162.17	103.07	9.00	109.0	64.8	-0.0	-	+	+	-
1 * A	162.17	134.93	9.00	-109.0	64.8	0.0	-	+	+	-
1 * C	162.71	102.15	9.00	101.8	71.9	0.0	-	-	-	+
1 * C	162.79	136.35	9.00	0.5	57.7	0.0	-	-	-	+
1 * C	167.14	70.26	9.00	61.6	71.1	0.0	-	-	-	+
1 * A	167.32	71.06	9.00	53.7	67.4	0.0	+	-	-	-
1 * A	167.32	100.94	9.00	-53.7	67.4	-0.0	+	-	-	-
1 * C	167.45	102.20	9.00	-136.5	69.2	0.0	-	-	-	+
1 * A	167.90	70.73	9.00	39.5	69.6	0.0	+	-	-	-
1 * A	167.90	101.27	9.00	-39.5	69.6	-0.0	+	-	-	-
1 * A	168.39	70.25	9.00	31.8	73.2	0.0	+	-	-	-
1 * A	168.39	101.75	9.00	-31.8	73.2	-0.0	+	-	-	-
1 * A	198.55	70.01	9.00	125.9	64.7	0.0	+	-	-	-
1 * A	198.55	101.99	9.00	-125.9	64.7	-0.0	+	-	-	-
1 * C	198.97	103.08	9.00	90.4	69.3	0.0	-	-	-	+
1 * C	199.04	69.07	9.00	-159.5	65.9	0.0	-	-	-	+
1 * A	199.45	70.01	9.00	54.1	64.7	-0.0	+	-	-	-
1 * A	199.45	101.99	9.00	-54.1	64.7	0.0	+	-	-	-
1 * A	229.61	70.25	9.00	148.2	73.2	-0.0	+	-	-	-
1 * A	229.61	101.75	9.00	-148.2	73.2	0.0	+	-	-	-
1 * A	230.10	70.73	9.00	140.5	69.6	-0.0	+	-	-	-
1 * A	230.10	101.27	9.00	-140.5	69.6	0.0	+	-	-	-
1 * A	230.68	71.06	9.00	126.3	67.4	-0.0	+	-	-	-
1 * A	230.68	100.94	9.00	-126.3	67.4	0.0	+	-	-	-
1 * C	230.71	102.05	9.00	-117.1	70.8	0.0	-	-	-	+
1 * C	230.74	70.14	9.00	-127.3	72.0	0.0	-	-	-	+