

Blackpool Sports Centre

Date: 09-06-2022

Designer: Dan Shah

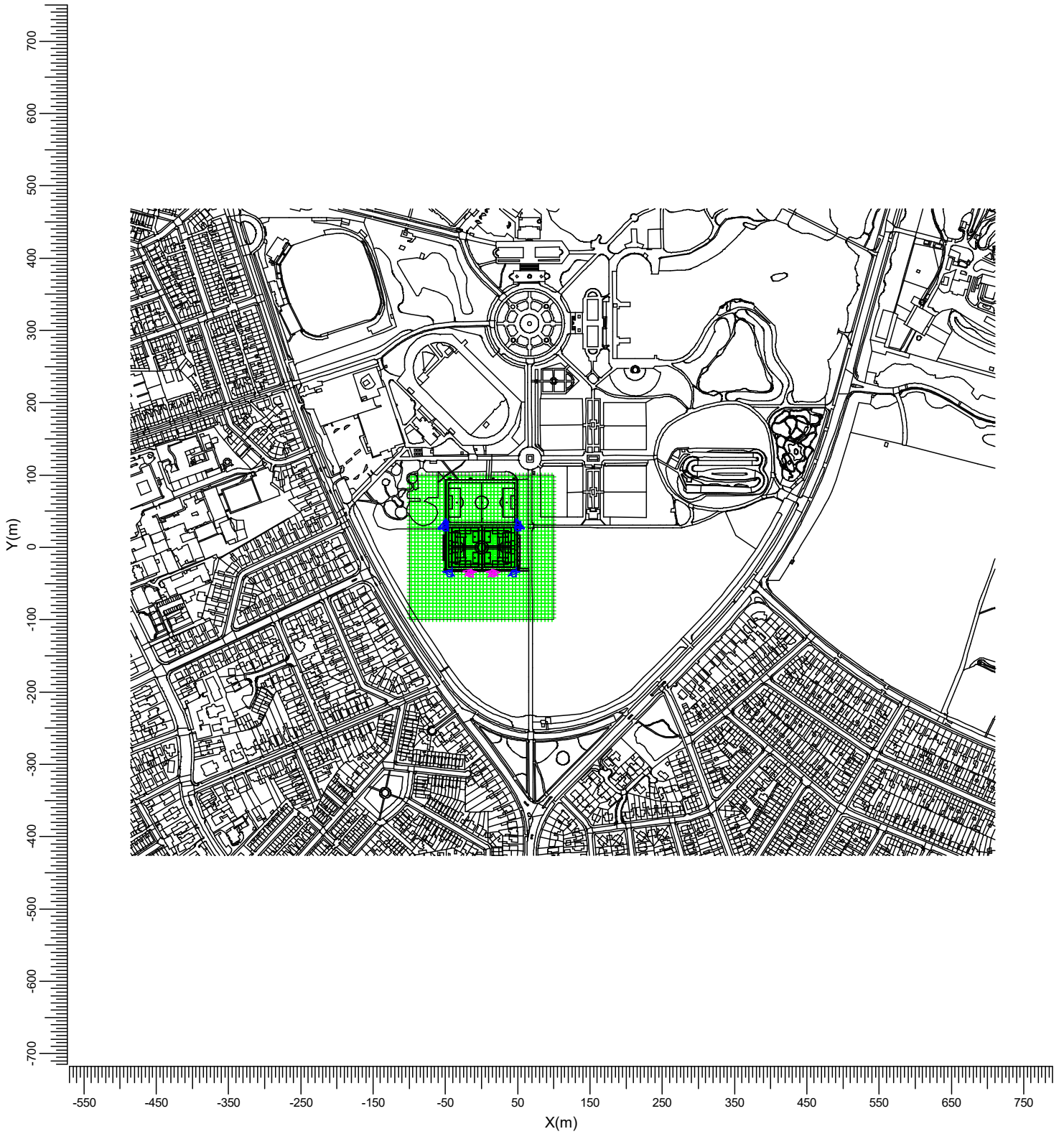
The nominal values shown in this report are the result of precision calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties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

Table of Contents

1.	Project Description	3
1.1	Top Project Overview	3
2.	Summary	4
2.1	Project Luminaires	4
2.2	Calculation Results	4
3.	Calculation Results	5
3.1	Football 100%: Graphical Table	5
3.2	Football Reduced: Graphical Table	6
3.3	Spill: Iso Contour	7
4.	Luminaire Details	8
4.1	Project Luminaires	8
5.	Installation Data	9
5.1	Legends	9
5.2	Luminaire Positioning and Orientation	9

1. Project Description

1.1 Top Project Overview



d  PL33T_FL11maxi+

e  PL33T_FL11maxi

Scale
1:7500

2. Summary

2.1 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
d	8	PL33T_FL11maxi+	1 *	1500.0	1 * 170000
e	4	PL33T_FL11maxi	1 *	930.0	1 * 114000

The total installed power: 15.72 (kWatt)

Number of Luminaires Per Switching Mode:

Switching Mode	Luminaire Code		Power (kWatt)
	d	e	
Football 100%	8	4	15.72
Football Reduced	8	4	15.72
Spill	8	4	15.72

2.2 Calculation Results

Switching Modes:

Code	Switching Mode	Maintenance factor
1	Football 100%	1.00
2	Football Reduced	0.70
3	Spill	1.00

(II)luminance Calculations:

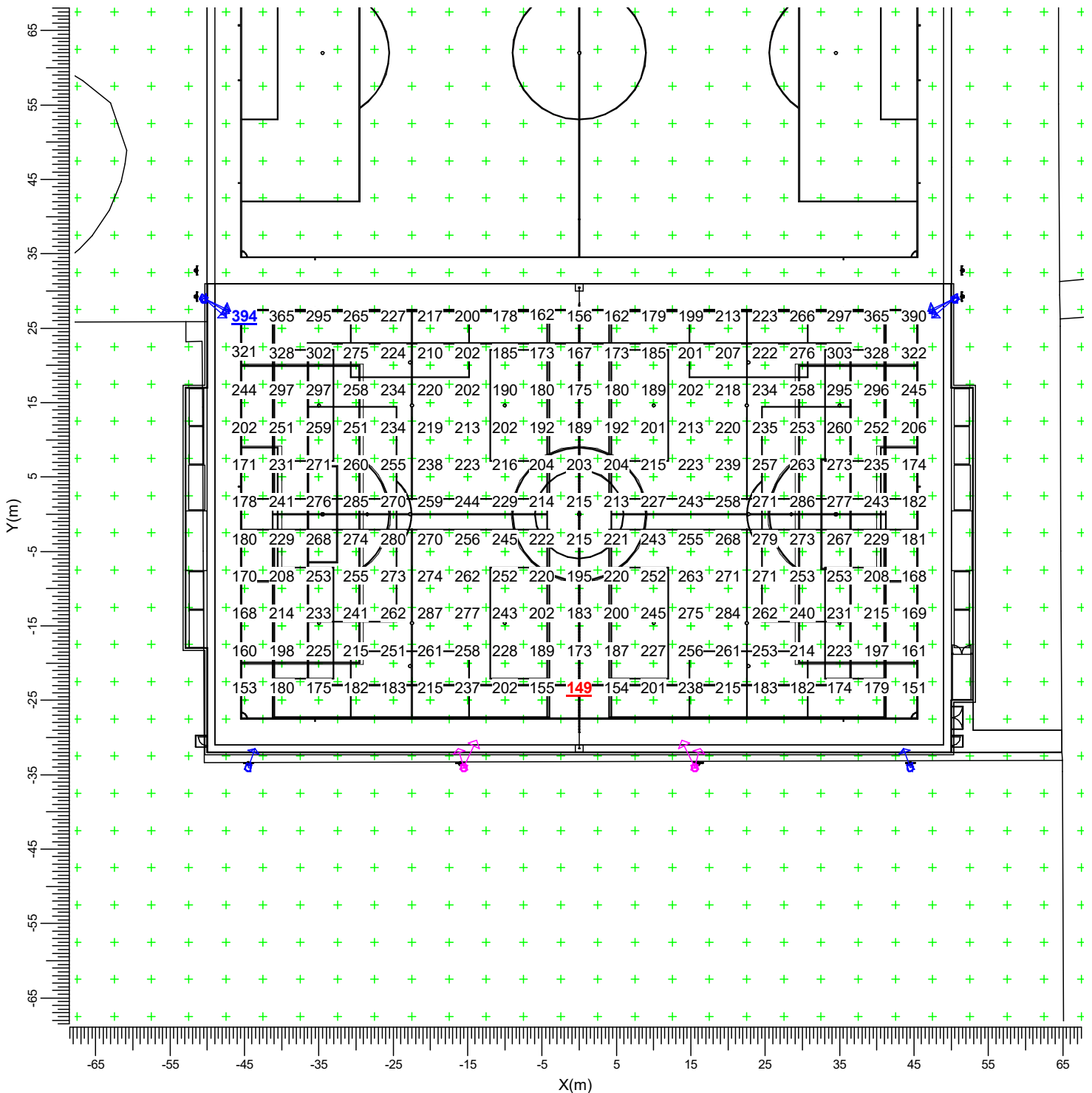
Calculation	Switching Mode	Type	Unit	Ave Min/AveMin/Max		
Football 100%	1	Surface Illuminance	lux	231	0.65	0.38
Football Reduced	2	Surface Illuminance	lux	162	0.65	0.38
Spill	1	Surface Illuminance	lux	44.9	0.00	0.00

3. Calculation Results

3.1 Football 100%: Graphical Table

Football 100%

Grid : Football 100% at Z = -0.00 m
 Calculation : Surface Illuminance (lux)



d PL33T_FL11maxi+

e PL33T_FL11maxi

Average
231

Min/Ave
0.65

Min/Max
0.38

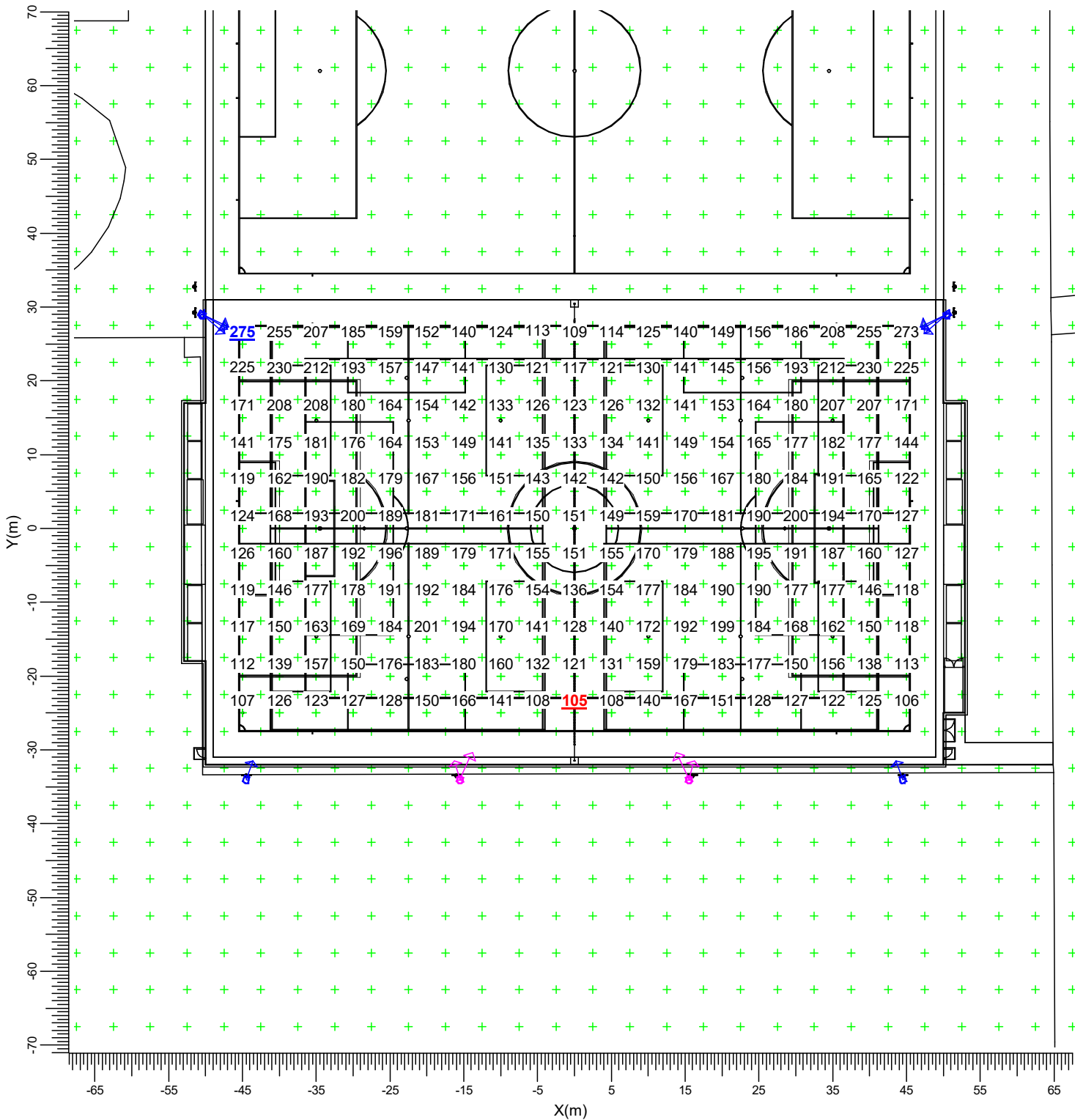
Project maintenance factor
1.00

Scale
1:750

3.2 Football Reduced: Graphical Table

Football Reduced

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



d PL33T_FL11maxi+

e PL33T_FL11maxi

Average
162

Min/Ave
0.65

Min/Max
0.38

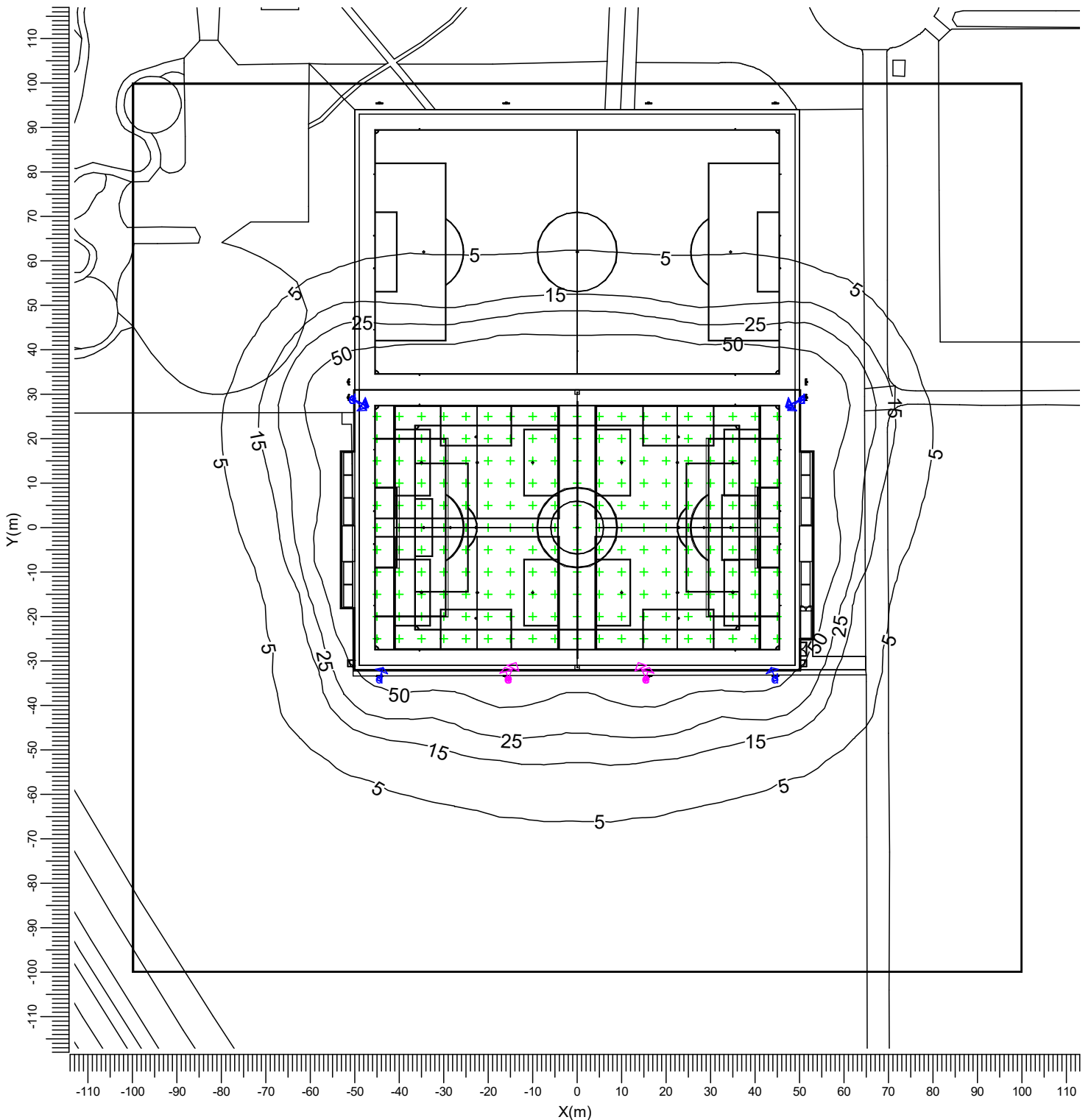
Project maintenance factor
0.70

Scale
1:750

3.3 Spill: Iso Contour

Football 100%

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



d PL33T_FL11maxi+

e PL33T_FL11maxi

Average
44.9

Min/Ave
0.00

Min/Max
0.00

Project maintenance factor
1.00

Scale
1:1250

4. Luminaire Details

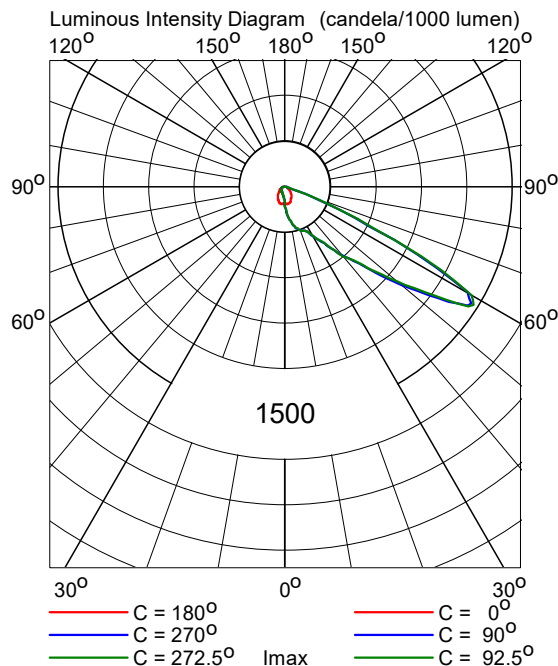
4.1 Project Luminaires

PL33T_FL11maxi+ 1x/5000

Light output ratios

DLOR	: 1.00
ULOR	: 0.00
TLOR	: 1.00
Lamp flux	: 170000 lm
Luminaire wattage	: 1500.0 W
Measurement code	: SPEOS simu

Note: Luminaire data not from database.

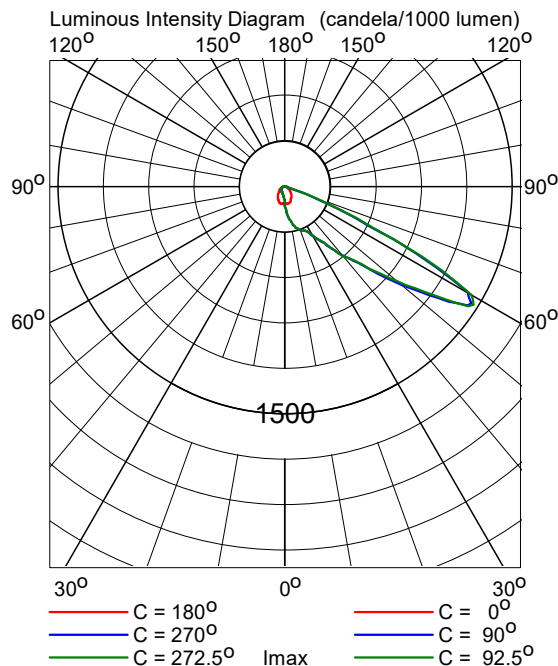


PL33T_FL11maxi 1x/5000

Light output ratios

DLOR	: 1.00
ULOR	: 0.00
TLOR	: 1.00
Lamp flux	: 114000 lm
Luminaire wattage	: 930.0 W
Measurement code	: SPEOS simu

Note: Luminaire data not from database.



5. Installation Data

5.1 Legends

Project Luminaires:

Code	Qty	Luminaire Type	Lamp Type	Flux (lm)
d	8	PL33T_FL11maxi+	1 *	1 * 170000
e	4	PL33T_FL11maxi	1 *	1 * 114000

Switching Modes:

Code	Switching Mode
1	Football 100%
2	Football Reduced
3	Spill

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
1 * d	-50.50	29.00	15.00	-25.0	15.0	0.0	+	+	+
1 * d	-50.50	29.00	15.00	-40.0	15.0	0.0	+	+	+
1 * d	-50.50	29.00	15.00	-30.0	15.0	0.0	+	+	+
1 * d	-44.50	-34.00	15.00	70.0	10.0	0.0	+	+	+
1 * e	-15.50	-34.00	15.00	107.7	10.0	0.0	+	+	+
1 * e	-15.50	-34.00	15.00	65.0	15.0	0.0	+	+	+
1 * e	15.50	-34.00	15.00	72.3	10.0	-0.0	+	+	+
1 * e	15.50	-34.00	15.00	115.0	15.0	-0.0	+	+	+
1 * d	44.50	-34.00	15.00	110.0	10.0	-0.0	+	+	+
1 * d	50.50	29.00	15.00	-155.0	15.0	-0.0	+	+	+
1 * d	50.50	29.00	15.00	-140.0	15.0	-0.0	+	+	+
1 * d	50.50	29.00	15.00	-150.0	15.0	-0.0	+	+	+