

Kingsway Park High School

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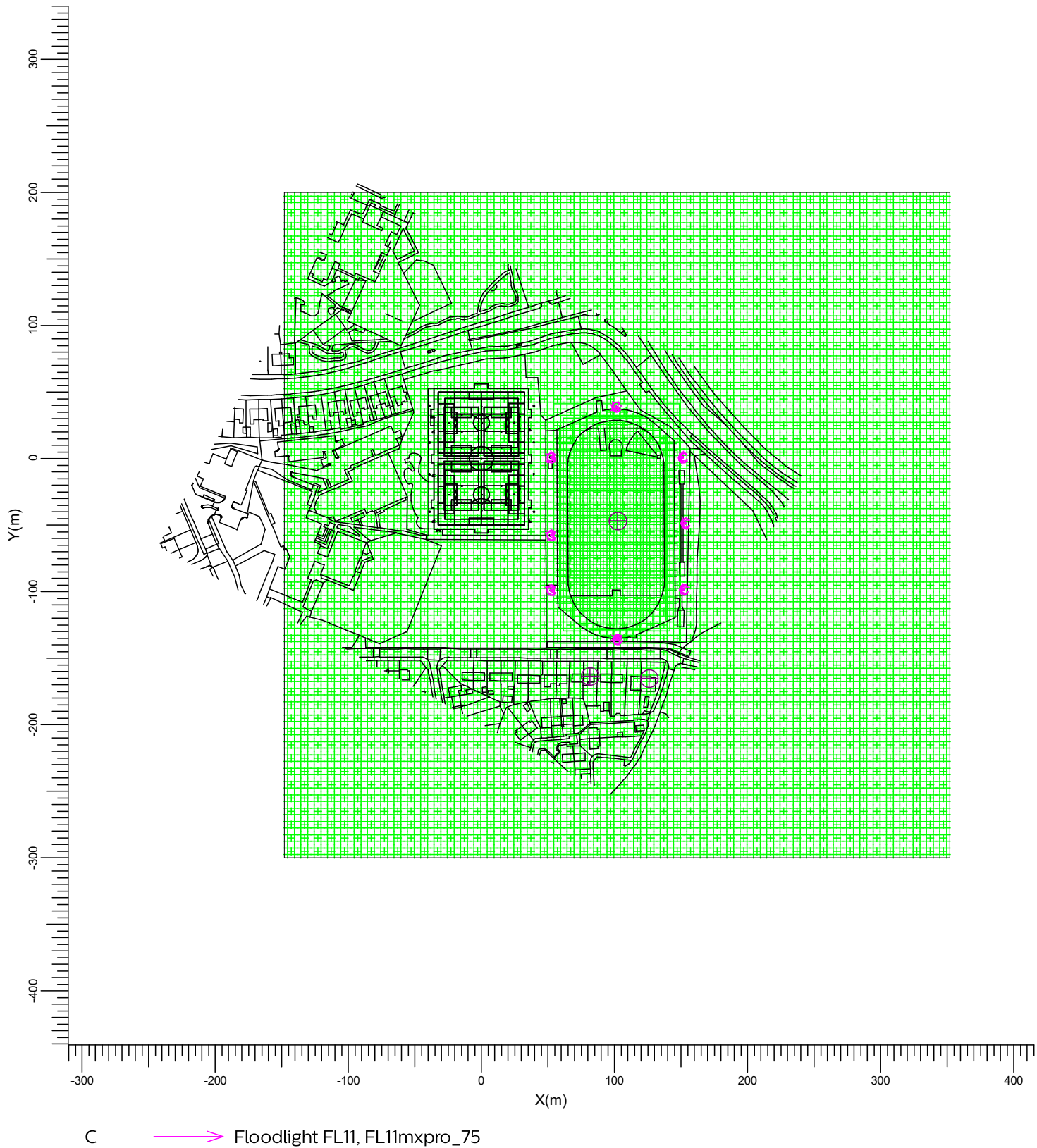
The nominal values shown in this report are the result of precision calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties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

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1. Project Description

1.1 Top Project Overview



Scale
1:4000

2. Summary

2.1 Observer Information

Code	Observer	Position		
		X (m)	Y (m)	Z (m)
Aa	Vertical Spill	102.32	-46.57	3.00
Bb	House1	81.77	-163.29	3.00
Cc	House2	125.87	-165.08	3.00

2.2 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
C	24	Floodlight FL11, FL11mxpro_750 _PL33TBLC_TM10_10.000h	1 * LED 5000 K CRI >= 70	1426.2	1 * 128070

The total installed power: 34.23 (kWatt)

2.3 Calculation Results

(II)luminance Calculations:

Calculation	Type	Unit	Ave Min/AveMin/Max		
Track	Surface Illuminance	lux	222	0.51	0.24
Infield	Surface Illuminance	lux	166	0.28	0.14
Vertical Spill	Illuminance -> Aa	lux	2.59	0.02	0.00
Horizontal Spill	Surface Illuminance	lux	12.3	0.00	0.00

Obtrusive Light Calculations:

Observer Code	Luminaire Code	Position			Aiming Angles			Maximum Intensity (cd)
		X (m)	Y (m)	Z (m)	Rot.	Tilt90	Tilt0	
Bb	C	151.00	1.00	12.00	-139.72	15.00	0.00	5371
Cc	C	52.50	1.00	12.00	-37.77	15.00	0.00	5508

3. Calculation Results

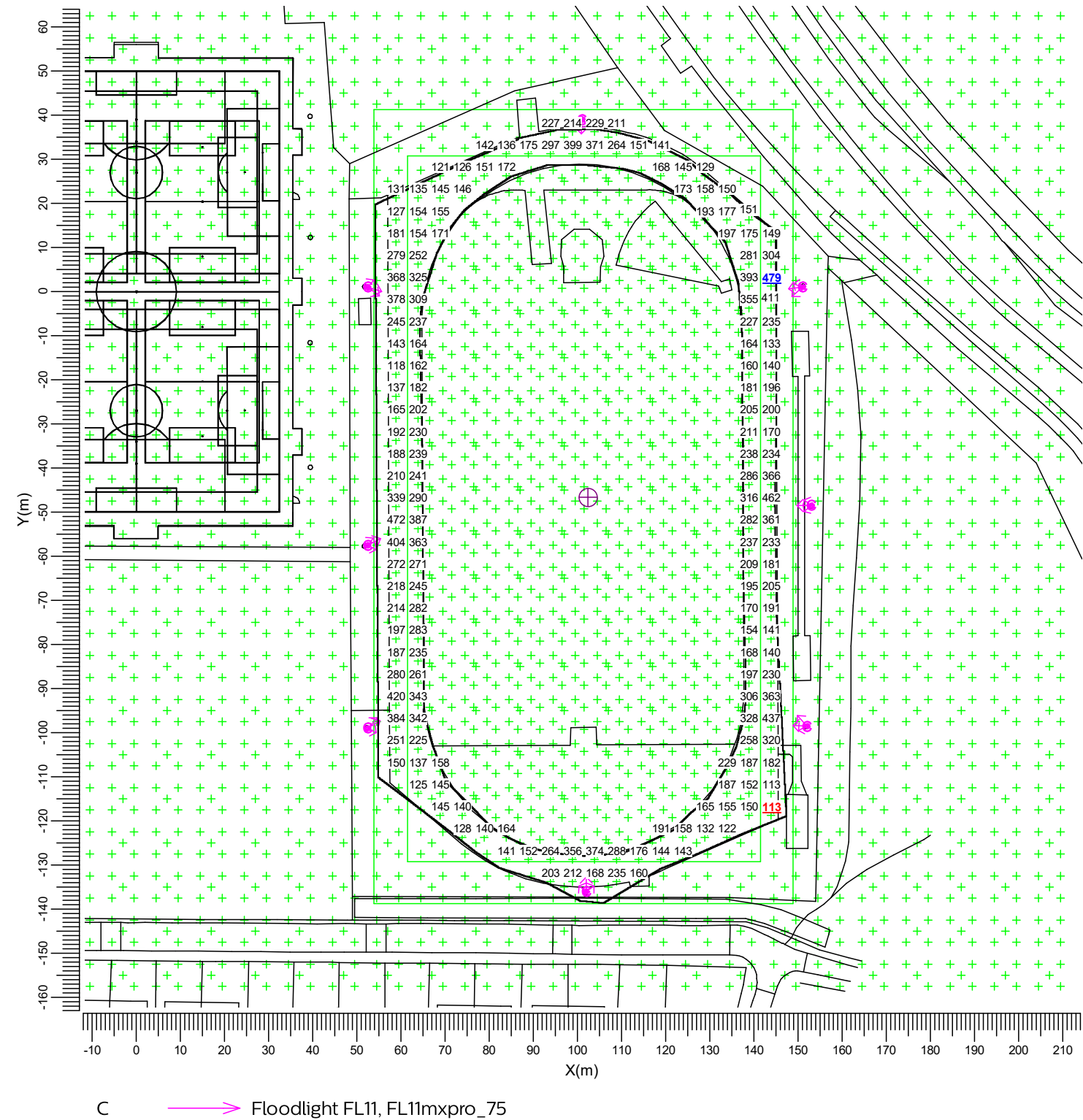
3.1 Track: Graphical Table

Grid

: Track at Z = -0.00 m

Calculation

: Surface Illuminance (lux)



Average	Min/Ave	Min/Max	Project maintenance factor	Scale
222	0.51	0.24	1.00	1:1250

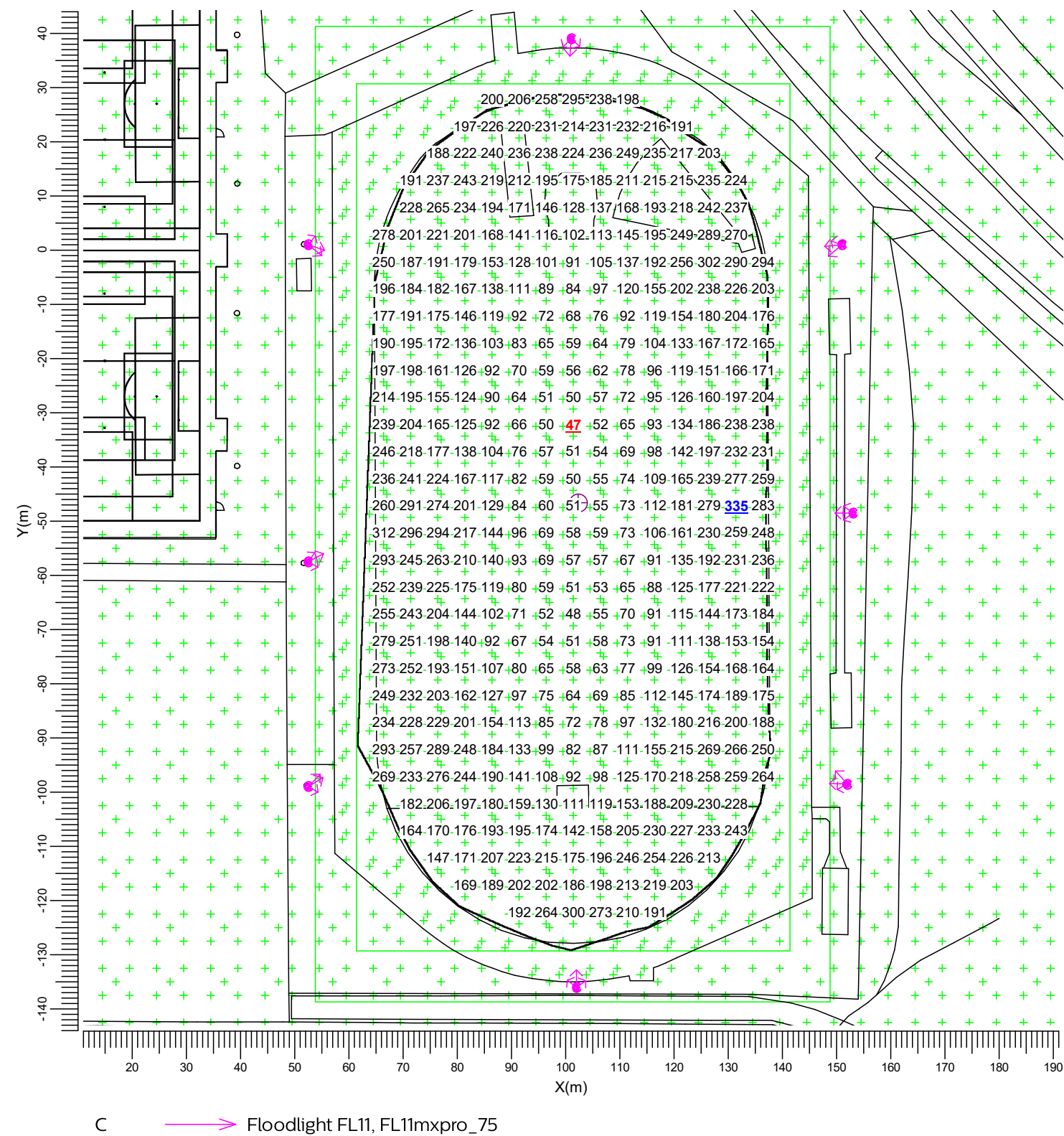
3.2 Infield: Graphical Table

Grid

: Infield at Z = -0.00 m

Calculation

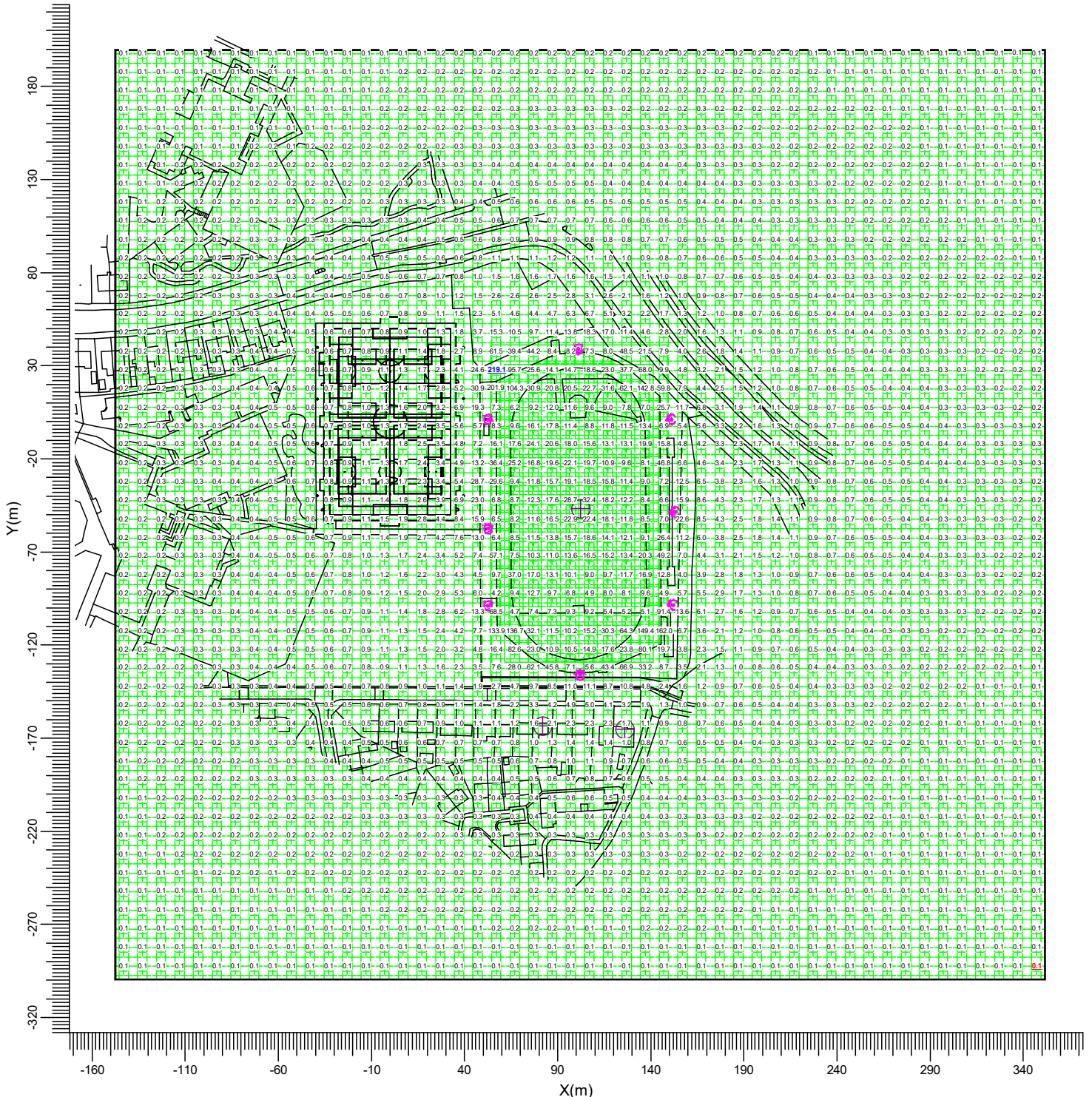
: Surface Illuminance (lux)



Average	Min/Ave	Min/Max	Project maintenance factor	Scale
166	0.28	0.14	1.00	1:1000

3.3 Vertical Spill: Graphical Table

Grid : Vertical Spill at Z = -0.00 m
Calculation : Illuminance towards Vertical Spill (lux)
Height above grid : 3.00 m



C → Floodlight FL11, FL11mxpro_75

Average
2.59

Min/Ave
0.02

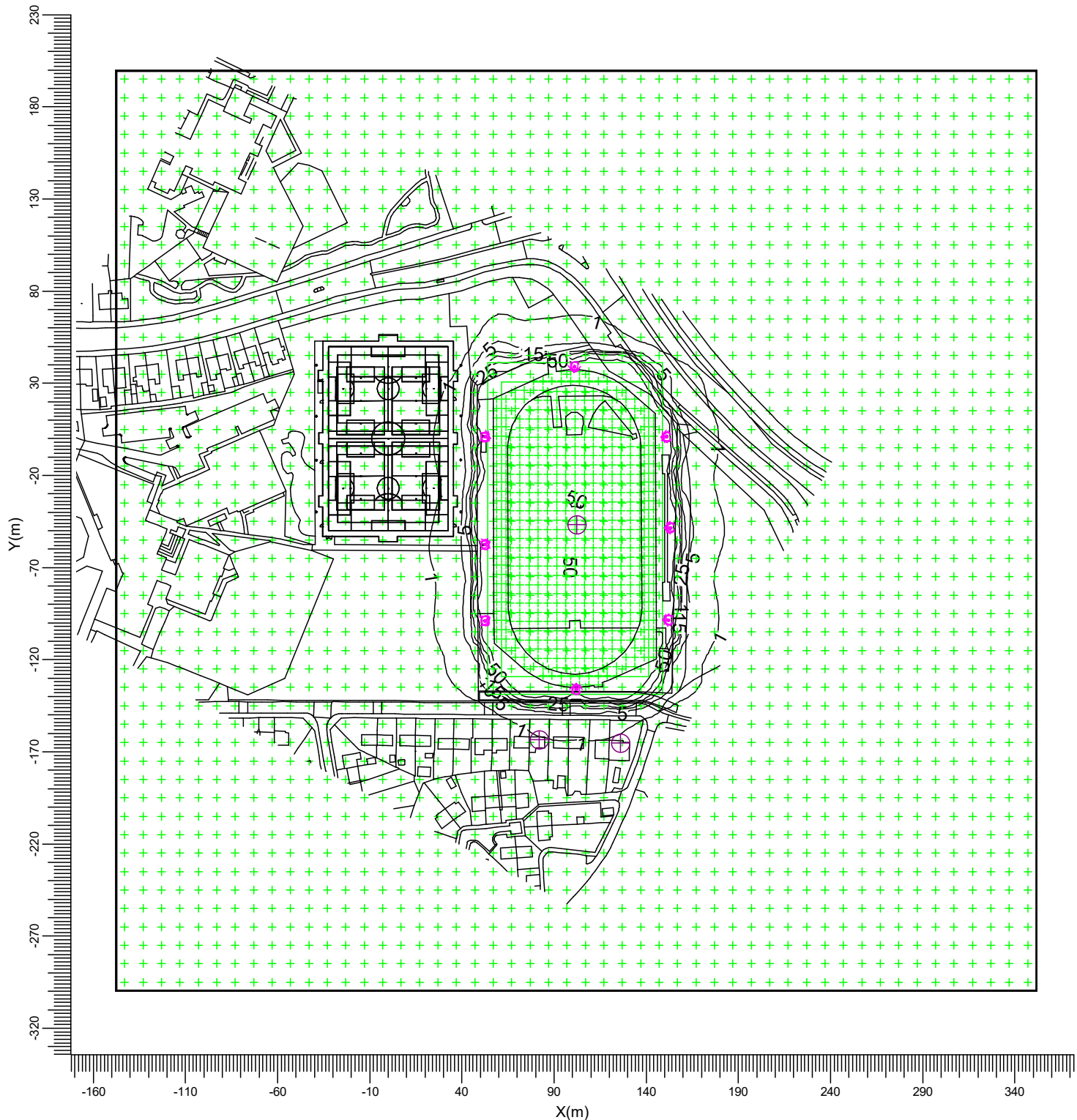
Min/Max
0.00

Project maintenance factor
1.00

Scale
1:3000

3.4 Horizontal Spill: Iso Contour

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



C → Floodlight FL11, FL11mxpro_75

Average	Min/Ave	Min/Max	Project maintenance factor	Scale
12.3	0.00	0.00	1.00	1:3000

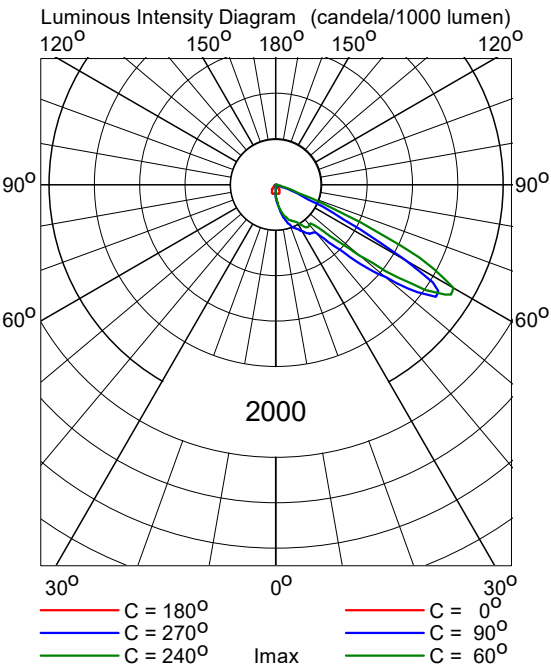
4. Luminaire Details

4.1 Project Luminaires

FL11, FL11mxproblc_750 1xLED 5000 K | CRI >= 70/5000

Light output ratios	
DLOR	: 1.00
ULOR	: 0.00
TLOR	: 1.00
Lamp flux	: 128070 lm
Luminaire wattage	: 1426.2 W
Measurement code	: 59257_7

Note: Luminaire data not from database.



5. Installation Data

5.1 Legends

Project Luminaires:

Code	Qty	Luminaire Type	Lamp Type	Flux (lm)
C	24	Floodlight FL11, FL11mxpro_750 _PL33TBLC_TM10_10.000h	1 * LED 5000 K CRI >= 70	1 * 128070

5.2 Luminaire Positioning and Orientation

Qty and Code	Position			Aiming Angles		
	X (m)	Y (m)	Z (m)	Rot.	Tilt90	Tilt0
1 * C	52.50	-99.00	12.00	47.0	15.0	0.0
1 * C	52.50	-99.00	12.00	33.1	15.0	0.0
1 * C	52.50	-99.00	12.00	-27.1	10.0	0.0
1 * C	52.50	-57.50	12.00	28.8	15.0	0.0
1 * C	52.50	-57.50	12.00	53.2	10.0	0.0
1 * C	52.50	-57.50	12.00	-27.0	10.0	0.0
1 * C	52.50	1.00	12.00	-37.8	15.0	0.0
1 * C	52.50	1.00	12.00	-18.6	15.0	0.0
1 * C	52.50	1.00	12.00	49.8	10.0	0.0
1 * C	101.00	39.00	12.00	-93.3	15.0	0.0
1 * C	101.00	39.00	12.00	-135.3	10.0	0.0
1 * C	101.00	39.00	12.00	-40.1	10.0	0.0
1 * C	102.00	-136.00	12.00	90.0	15.0	0.0
1 * C	102.00	-136.00	12.00	141.0	10.0	0.0
1 * C	102.00	-136.00	12.00	35.9	10.0	0.0
1 * C	151.00	1.00	12.00	-139.7	15.0	0.0
1 * C	151.00	1.00	12.00	-174.4	15.0	0.0
1 * C	151.00	1.00	12.00	159.4	10.0	0.0
1 * C	152.00	-98.50	12.00	132.6	15.0	0.0
1 * C	152.00	-98.50	12.00	177.2	15.0	0.0
1 * C	152.00	-98.50	12.00	-151.7	10.0	0.0
1 * C	153.00	-48.50	12.00	180.0	15.0	0.0
1 * C	153.00	-48.50	12.00	142.6	10.0	0.0
1 * C	153.00	-48.50	12.00	-141.0	10.0	0.0