

Kingsway Park High School

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Designer: Dan Shah

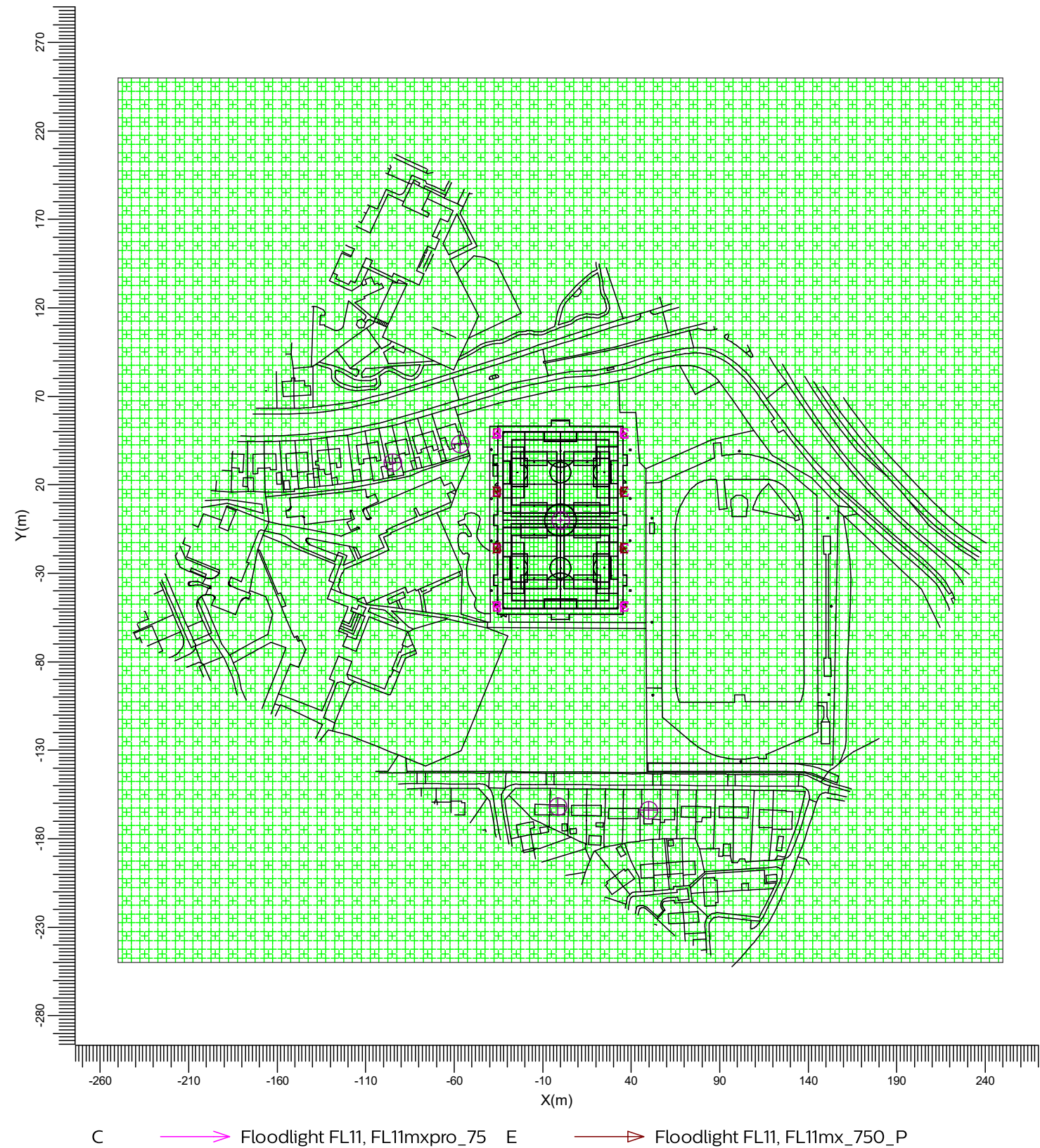
The nominal values shown in this report are the result of precision calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties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

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1. Project Description

1.1 Top Project Overview



Scale
1:3000

2. Summary

2.1 Observer Information

Code	Observer	Position		
		X (m)	Y (m)	Z (m)
Aa	Vertical Spill	0.01	0.01	3.00
Bb	House1	-94.67	32.72	3.00
Cc	House2	-56.72	43.18	3.00
Dd	House3	-1.43	-161.62	3.00
Ee	House4	49.85	-163.68	3.00

2.2 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
C	8	Floodlight FL11, FL11mxpro_750_PL33TBLC_TM10_10.000h	1 * LED 5000 K CRI >= 70	1426.2	1 * 128070
E	8	Floodlight FL11, FL11mx_750_PL33TBLC_TM10.1000h	1 * LED 5000 K CRI >= 70	968.3	1 * 86950

The total installed power: 19.16 (kWatt)

2.3 Calculation Results

(II)luminance Calculations:

Calculation	Type	Unit	Ave Min/AveMin/Max		
Football	Surface Illuminance	lux	227	0.62	0.41
Vertical Spill	Illuminance -> Aa	lux	1.61	0.01	0.00
Horizontal Spill	Surface Illuminance	lux	6.87	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	36.00	49.00	12.00	-140.00	12.50	-0.00	3793
Cc	C	36.00	49.00	12.00	-140.00	12.50	-0.00	5511
Dd	C	36.00	49.00	12.00	-140.00	12.50	-0.00	1350
Ee	C	-36.00	16.00	12.00	-35.00	12.50	0.00	2343

3. Calculation Results

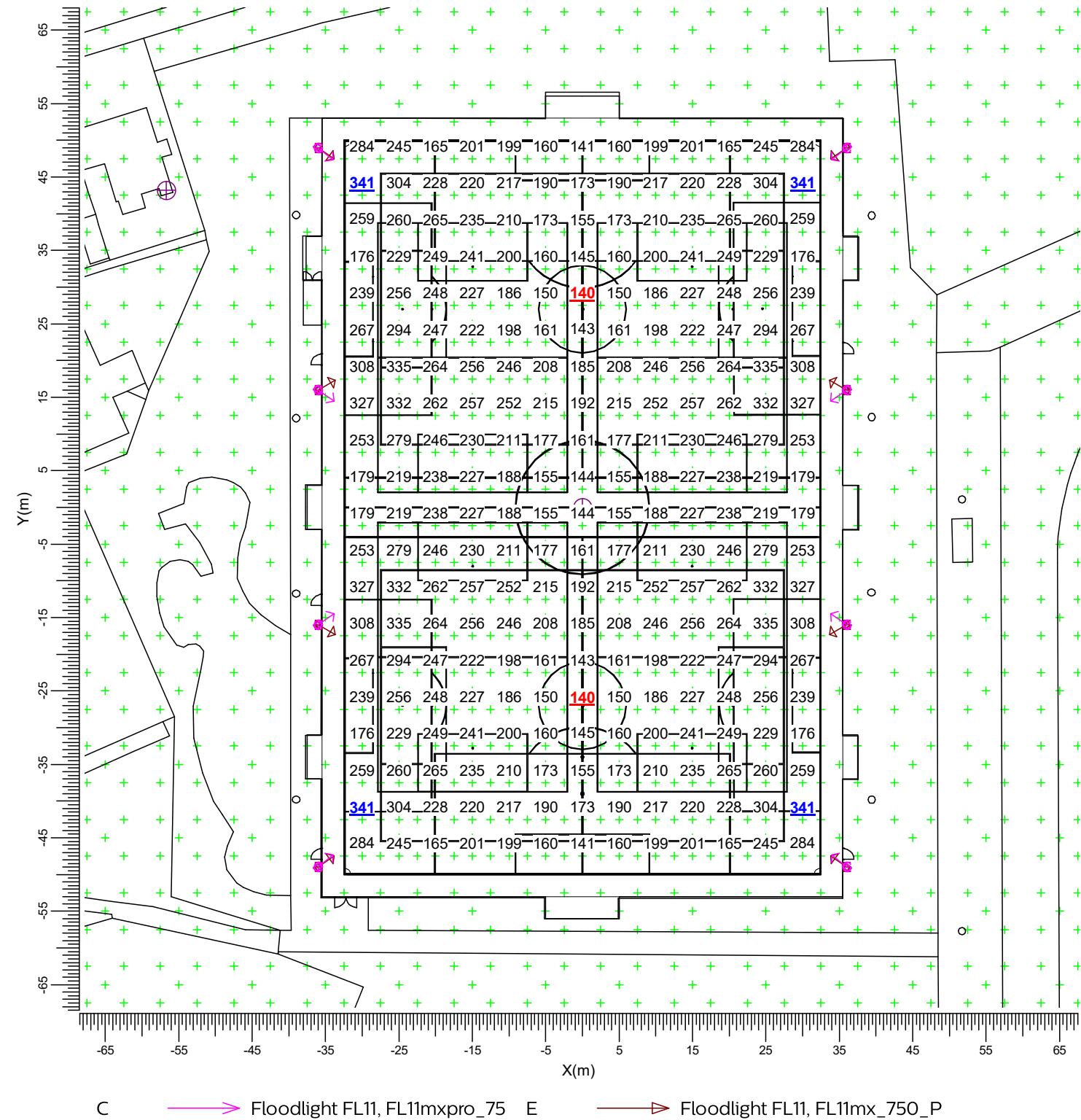
3.1 Football: Graphical Table

Grid

: Football at Z = -0.00 m

Calculation

: Surface Illuminance (lux)



Average
227

Min/Ave
0.62

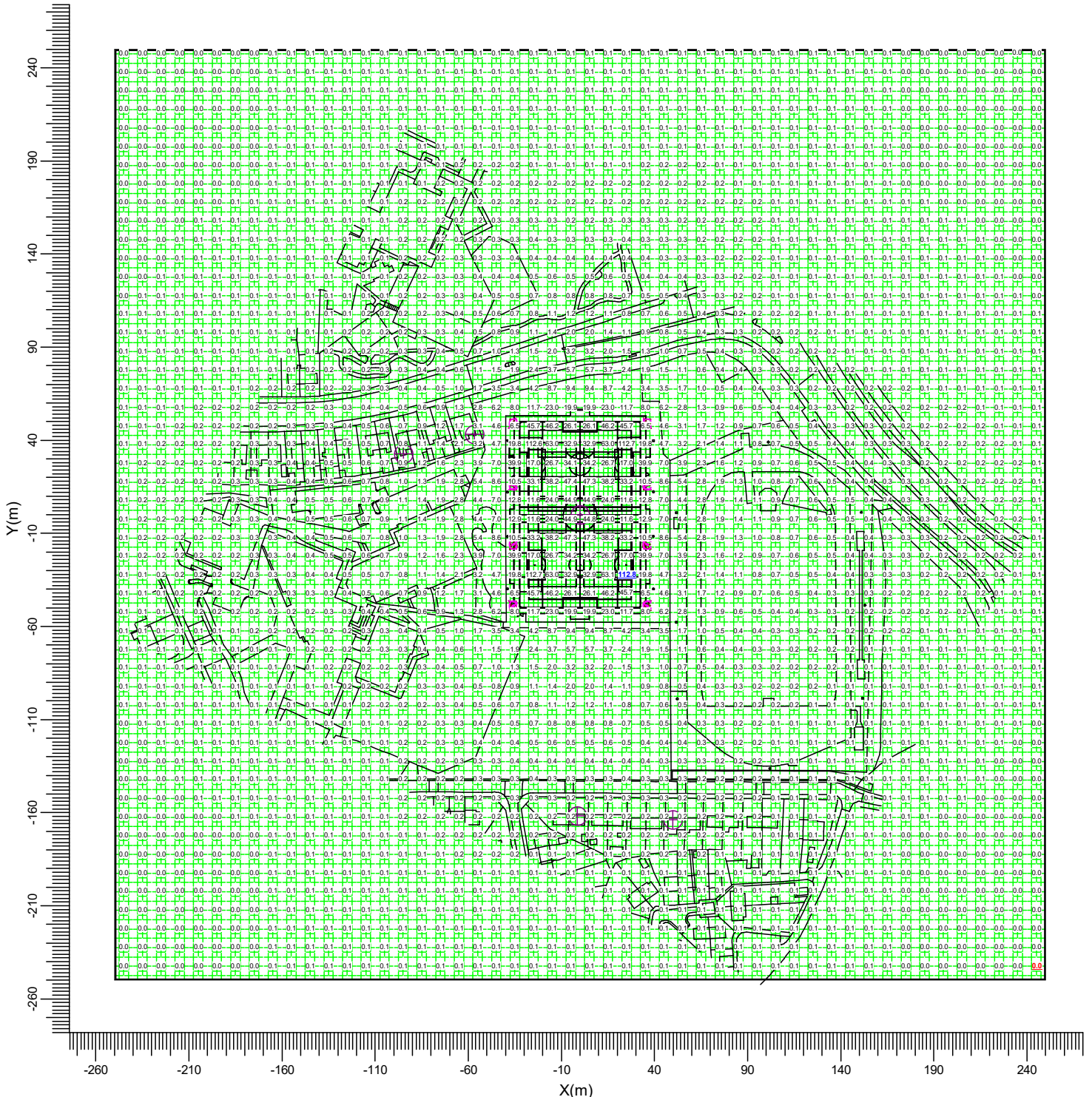
Min/Max
0.41

Project maintenance factor
1.00

Scale
1:750

3.2 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 E → Floodlight FL11, FL11mx_750_P

Average
1.61

Min/Ave
0.01

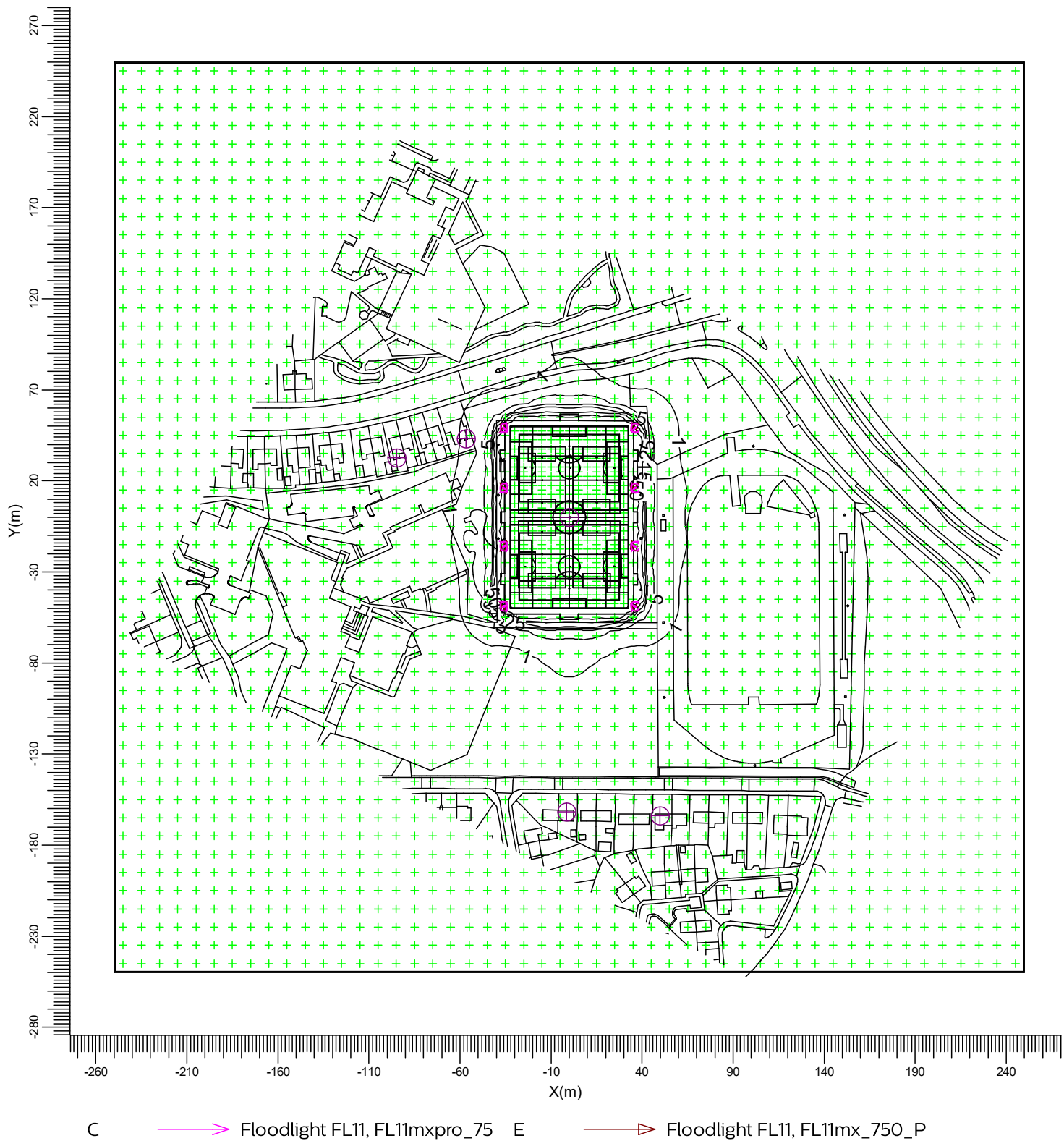
Min/Max
0.00

Project maintenance factor
1.00

Scale
1:3000

3.3 Horizontal Spill: Iso Contour

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



Average 6.87	Min/Ave 0.00	Min/Max 0.00	Project maintenance factor 1.00	Scale 1:3000
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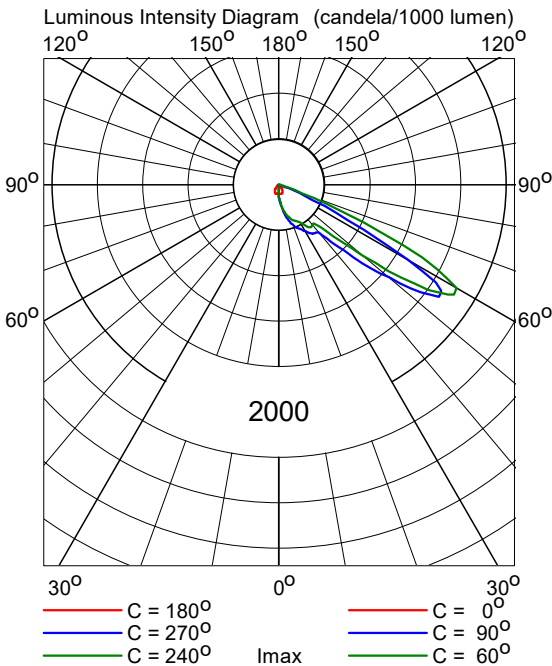
4. Luminaire Details

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

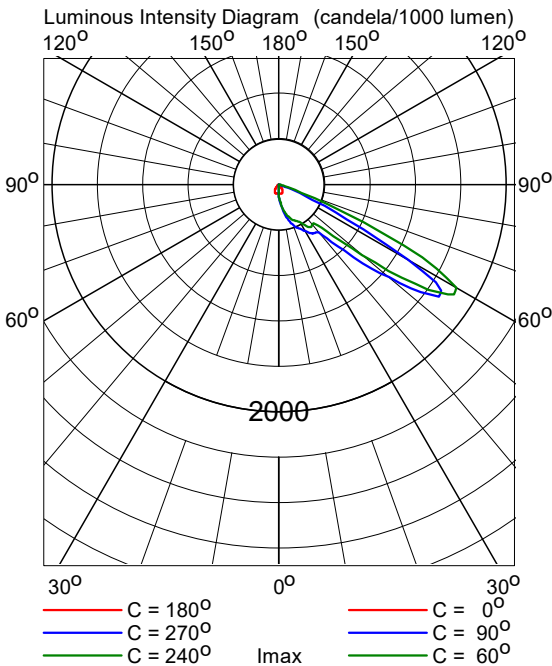
Note: Luminaire data not from database.



FL11, FL11mxblc_750_PL 1xLED 5000 K | CRI >= 70/5000

Light output ratios	
DLOR	: 1.00
ULOR	: 0.00
TLOR	: 1.00
Lamp flux	: 86950 lm
Luminaire wattage	: 968.3 W
Measurement code	: 59257_19

Note: Luminaire data not from database.



5. Installation Data

5.1 Legends

Project Luminaires:

Code	Qty	Luminaire Type	Lamp Type	Flux (lm)
C	8	Floodlight FL11, FL11mxpro_750_PL33TBLC_TM10_10.000h	1 * LED 5000 K CRI >= 70	1 * 128070
E	8	Floodlight FL11, FL11mx_750_PL33TBLC_TM10.1000h	1 * LED 5000 K CRI >= 70	1 * 86950

5.2 Luminaire Positioning and Orientation

Qty and Code	Position			Aiming Angles		
	X (m)	Y (m)	Z (m)	Rot.	Tilt90	Tilt0
1 * E	-36.00	-49.00	12.00	35.0	12.5	-0.0
1 * C	-36.00	-49.00	12.00	40.0	12.5	-0.0
1 * C	-36.00	-16.00	12.00	35.0	12.5	-0.0
1 * E	-36.00	-16.00	12.00	-30.0	12.5	-0.0
1 * C	-36.00	16.00	12.00	-35.0	12.5	0.0
1 * E	-36.00	16.00	12.00	30.0	12.5	0.0
1 * E	-36.00	49.00	12.00	-35.0	12.5	0.0
1 * C	-36.00	49.00	12.00	-40.0	12.5	0.0
1 * E	36.00	-49.00	12.00	145.0	12.5	0.0
1 * C	36.00	-49.00	12.00	140.0	12.5	0.0
1 * C	36.00	-16.00	12.00	145.0	12.5	0.0
1 * E	36.00	-16.00	12.00	-150.0	12.5	0.0
1 * C	36.00	16.00	12.00	-145.0	12.5	-0.0
1 * E	36.00	16.00	12.00	150.0	12.5	-0.0
1 * E	36.00	49.00	12.00	-145.0	12.5	-0.0
1 * C	36.00	49.00	12.00	-140.0	12.5	-0.0