

Brian Holden Memorial

Date: 10-02-2026
Designer: Andy Poplett
Description:

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 Description

Maintenance Factor:- 0.90

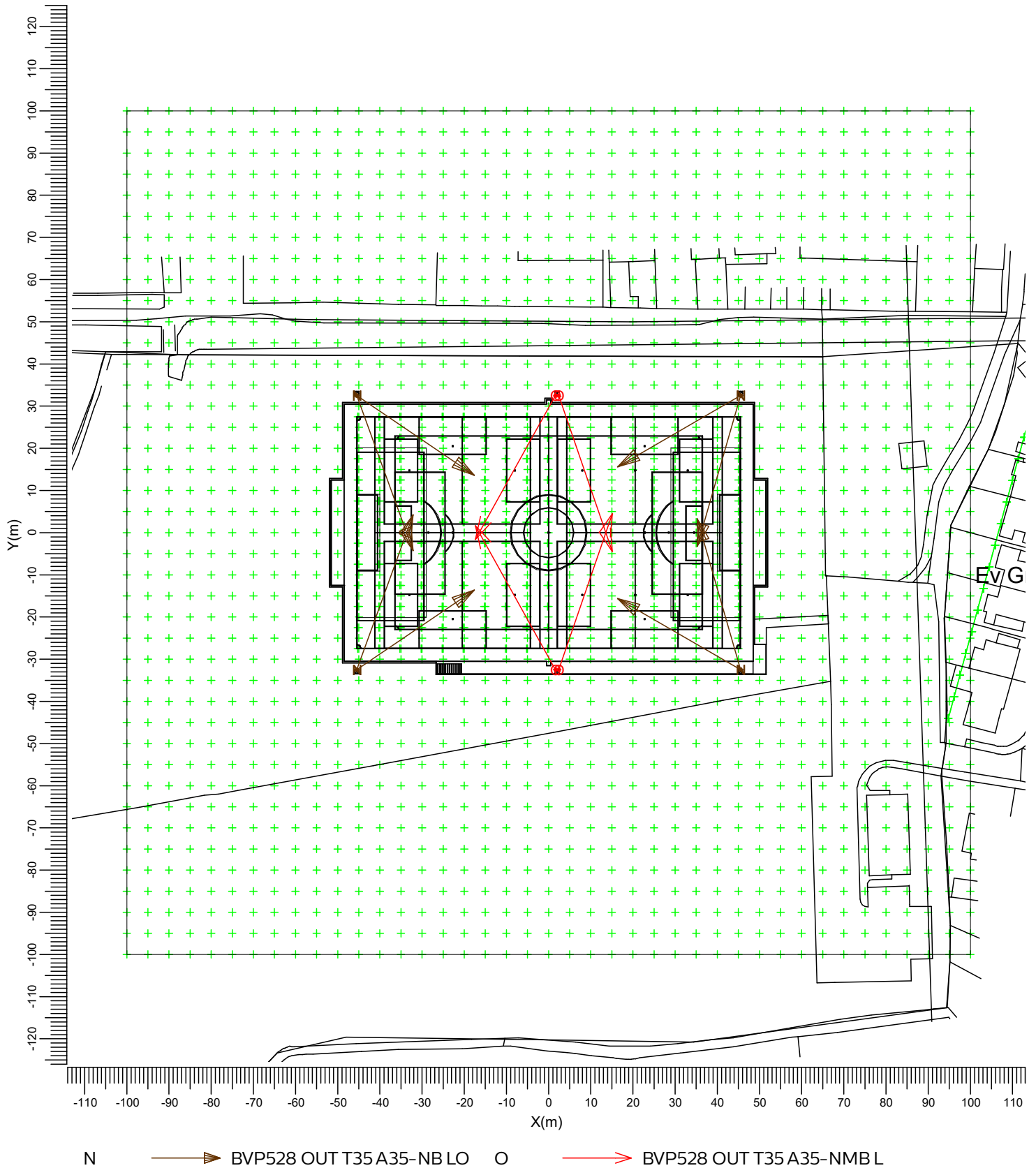
Pitch 91m x 55m (Fenced Area 97m x 61m)

The design has been completed using the Philips Asymmetric OptiVision LED GEN 3.5 A35 Floodlights. A total of 12 no have been used to achieve an average of 200lux.

Floodlights are mounted on 6 x 15 metre columns

All Floodlights fitted with integral LO (maximum cut off) louvres to reduce spill and glare.

1.2 Top Project Overview



Scale
1:1250

2. Summary

2.1 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
N	8	BVP528 OUT T35 A35-NB LO	1 * LED2590-4S/757	1505.9	1 * 259000
O	4	BVP528 OUT T35 A35-NMB LO	1 * LED2590-4S/757	1505.9	1 * 259000

The total installed power: 18.07 (kWatt)

Number of Luminaires Per Switching Mode:

Switching Mode	Luminaire Code		Power (kWatt)
	N	O	
Main Pitch	8	4	18.07
Half Pitch	4	2	9.04
All ON	8	4	18.07

Number of Luminaires Per Arrangement:

Arrangement	Luminaire Code		Power (kWatt)
	N	O	
Centre 1	0	2	3.01
Centre 2	0	2	3.01
Corner 1	4	0	6.02
Corner 2	4	0	6.02

2.2 Calculation Results

Switching Modes:

Code	Switching Mode	Maintenance factor
1	Main Pitch	0.90
2	Half Pitch	0.90
3	All ON	1.00

(Il)luminance Calculations:

Calculation	Switching Mode	Type	Unit	Ave	Max	Min/Ave	Min/Max
Football	1	Surface Illuminance	lux	238		0.68	0.48
Half Pitch	2	Surface Illuminance	lux	217		0.61	0.38
Spillage	3	Surface Illuminance	lux	43.1		0.00	0.00
Ev Grid 1	3	Surface Illuminance	lux		0.12		

Obtrusive Light Calculations:

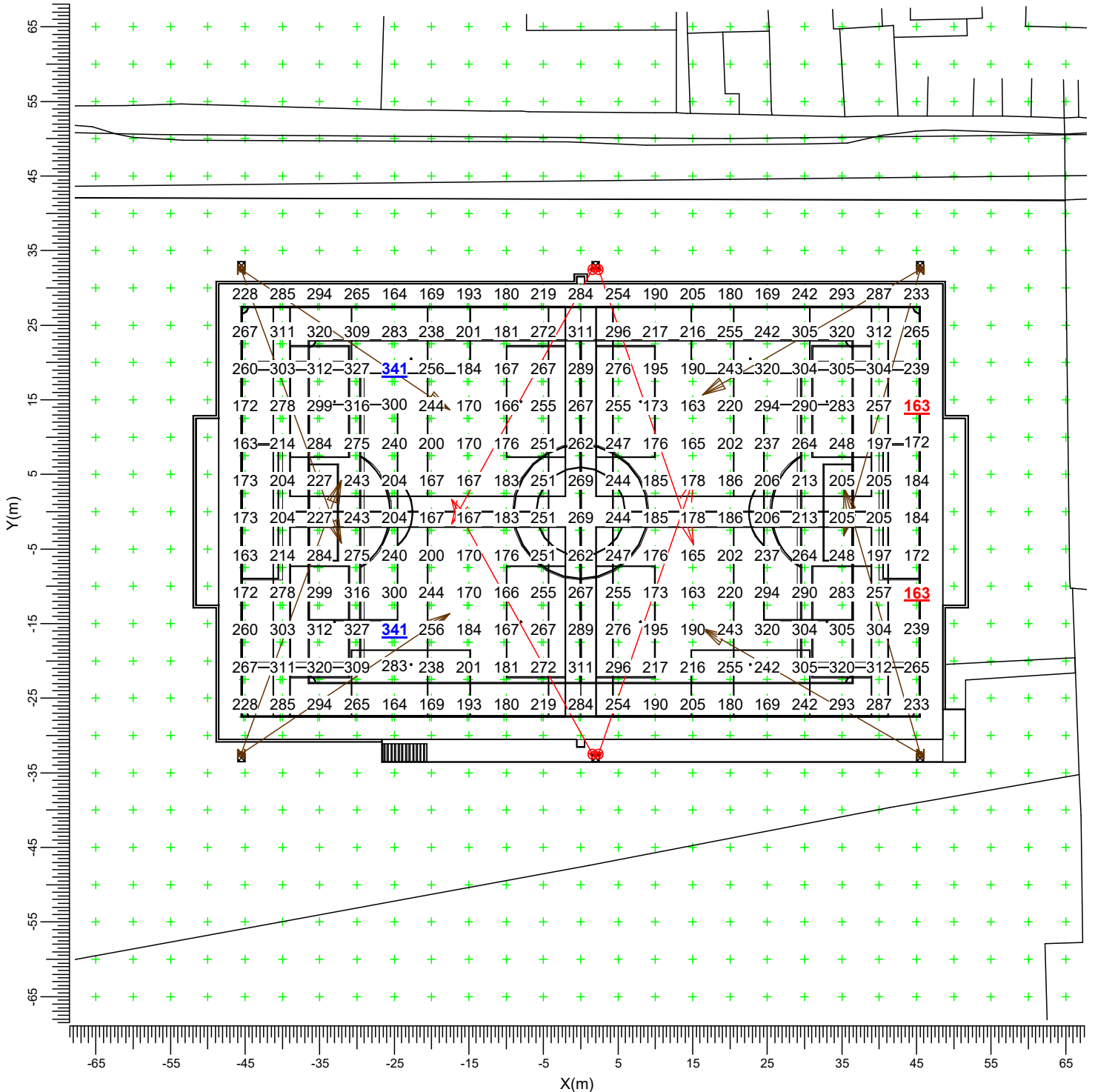
Switching Mode	ULR
1	0.00
2	0.00
3	0.00

3. Calculation Results

3.1 Football: Graphical Table

Main Pitch

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



N BVP528 OUT T35 A35-NB LO BVP528 OUT T35 A35-NMB L

Average
238

Min/Ave
0.68

Min/Max
0.48

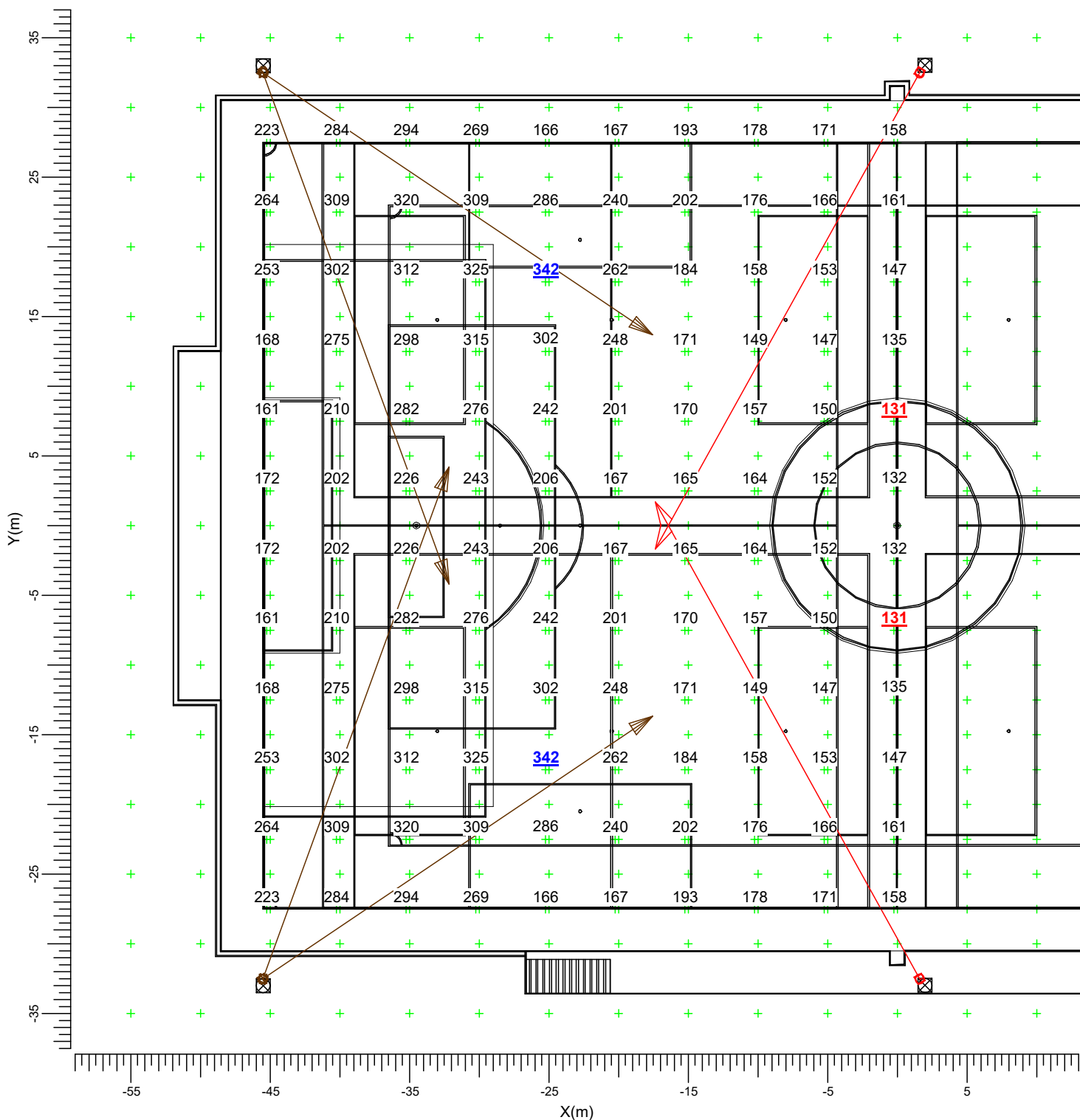
Project maintenance factor
0.90

Scale
1:750

3.2 Half Pitch: Graphical Table

Half Pitch

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



N
 BVP528 OUT T35 A35-NB LO
O
 BVP528 OUT T35 A35-NMB L

Average
217

Min/Ave
0.61

Min/Max
0.38

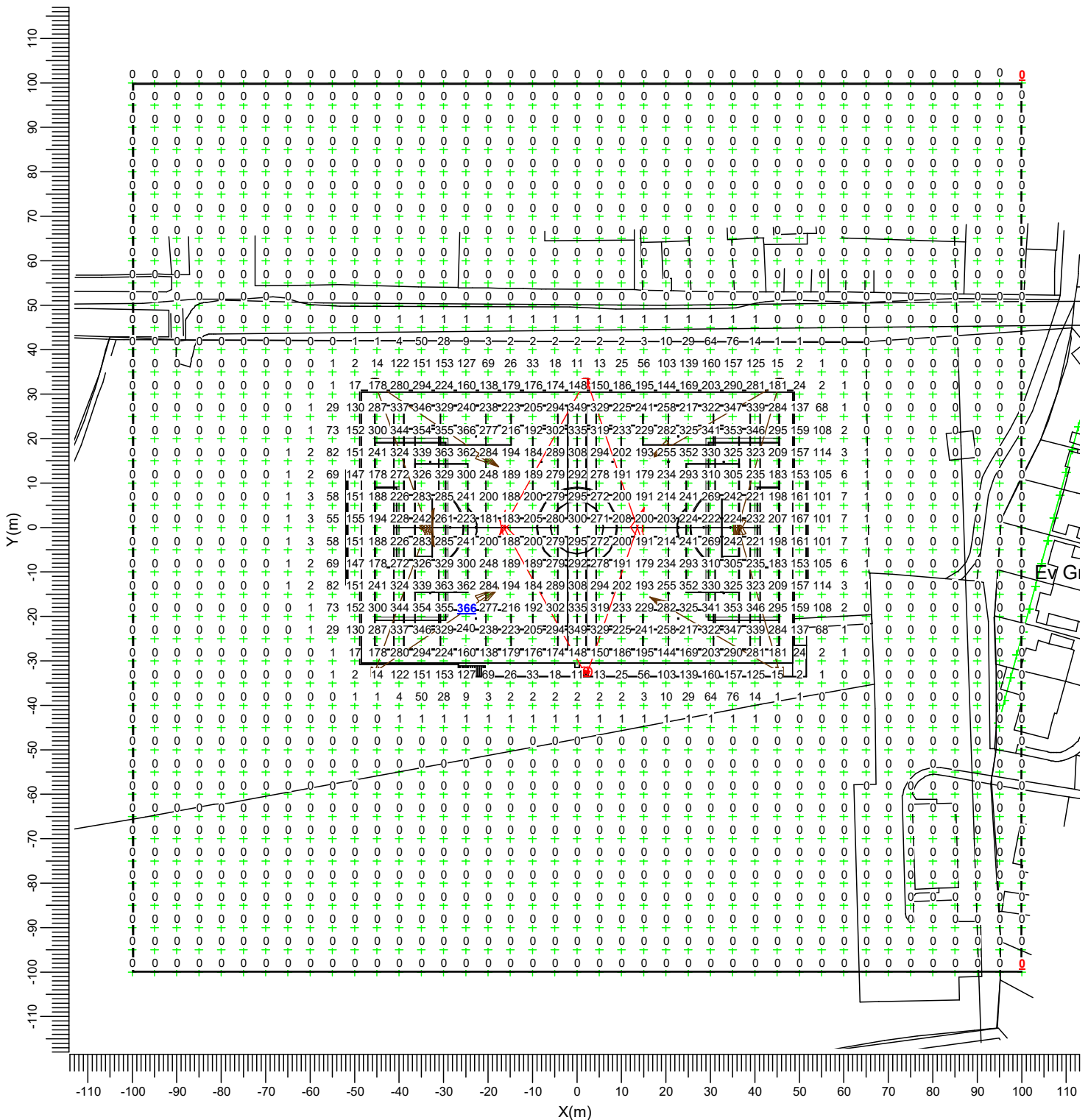
Project maintenance factor
0.90

Scale
1:400

3.3 Spillage: Graphical Table

All ON

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



N BVP528 OUT T35 A35-NB LO BVP528 OUT T35 A35-NMB L

Average
43.1

Min/Ave
0.00

Min/Max
0.00

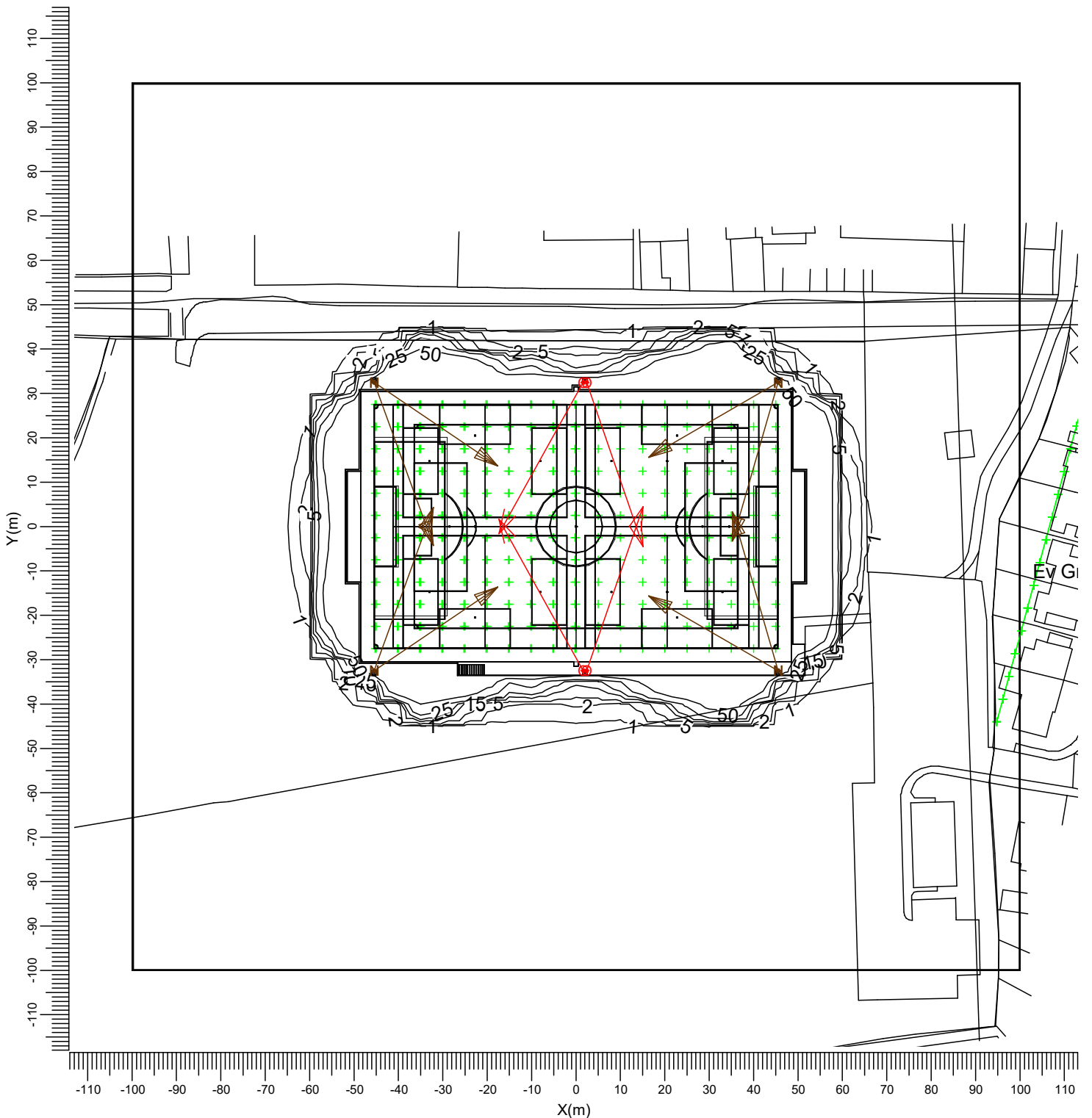
Project maintenance factor
1.00

Scale
1:1250

3.4 Spillage: Iso Contour

ALL ON

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



N BVP528 OUT T35 A35-NB LO O BVP528 OUT T35 A35-NMB L

Average
43.1

Min/Ave
0.00

Min/Max
0.00

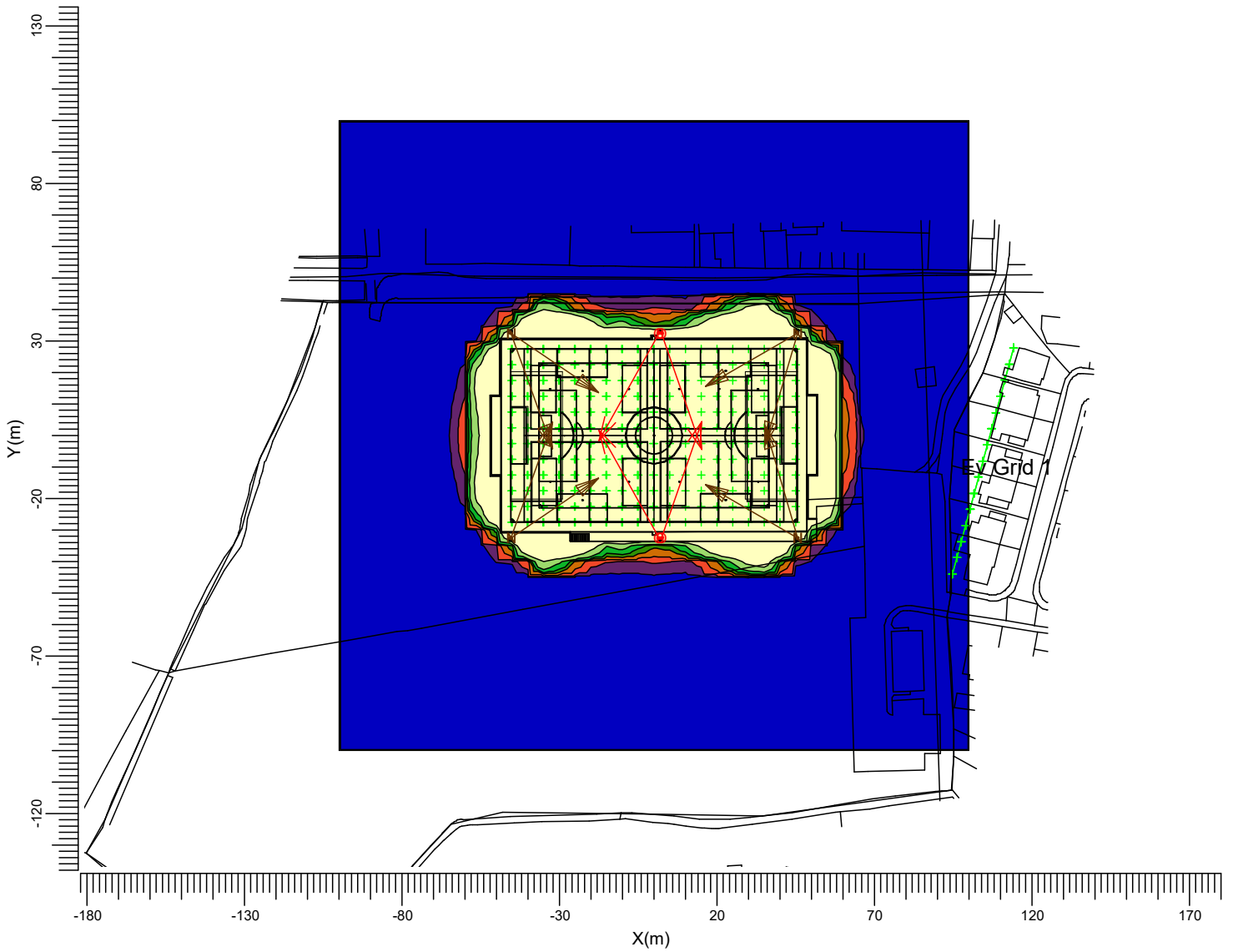
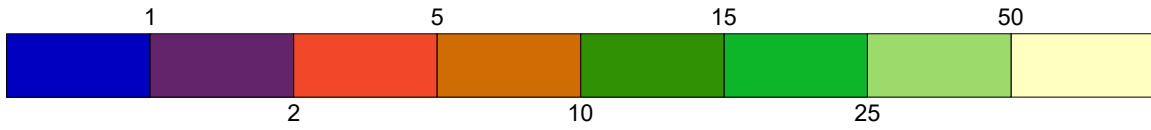
Project maintenance factor
1.00

Scale
1:1250

3.5 Spillage: Filled Iso Contour

All ON

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



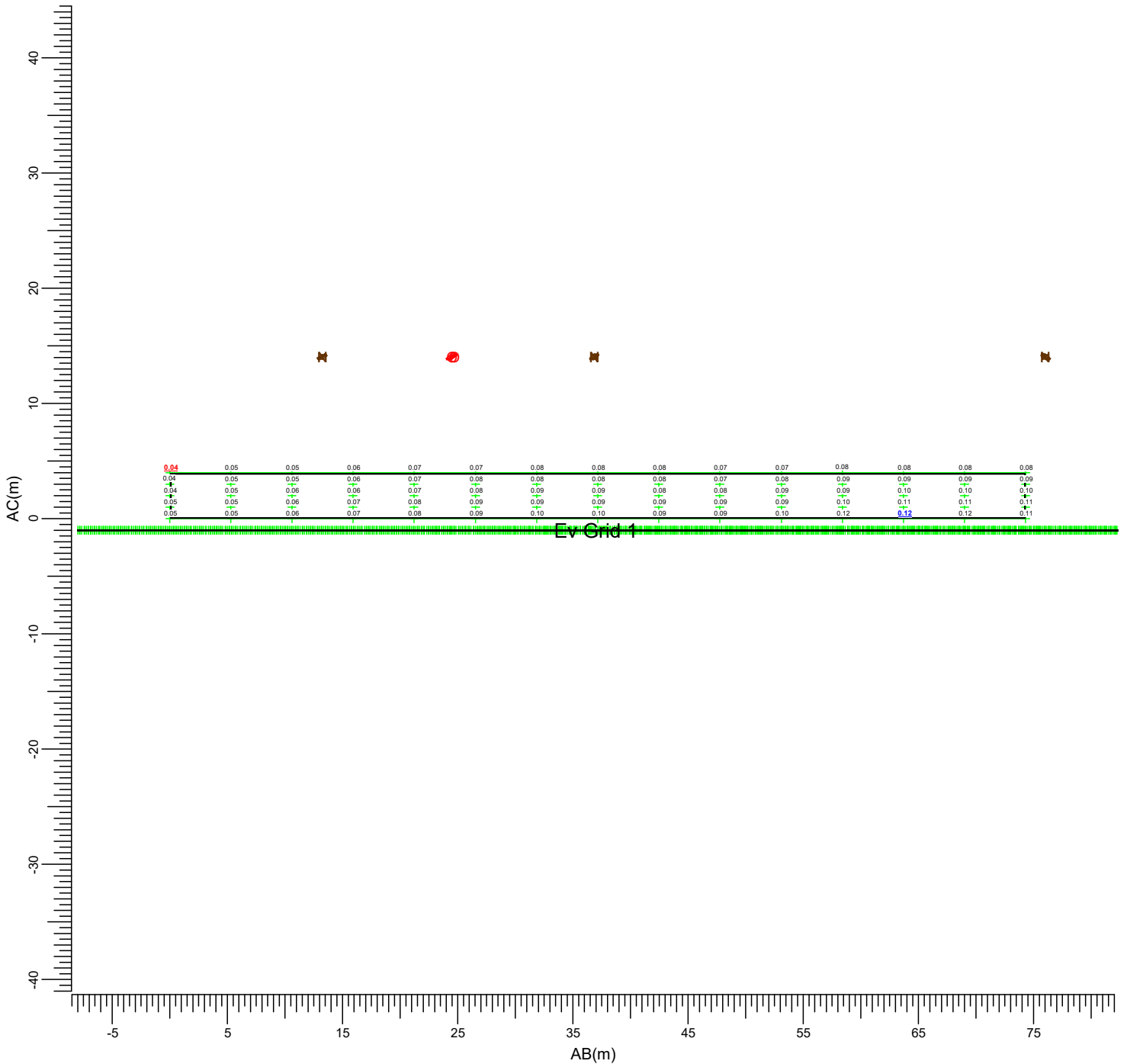
N BVP528 OUT T35 A35-NB LO O BVP528 OUT T35 A35-NMB L

Average 43.1 Min/Ave 0.00 Min/Max 0.00 Project maintenance factor 1.00 Scale 1:2000

3.6 Ev Grid 1: Graphical Table

All ON

Grid : Ev Grid 1
Calculation : Surface Illuminance (lux)



(114.10, 27.80, 5.00) C----D (94.80, -44.00, 5.00)
 | |
 (114.10, 27.80, 1.00) A----B (94.80, -44.00, 1.00)

N : BVP528 OUT T35 A35-NB LO O : BVP528 OUT T35 A35-NMB LO

Maximum Project maintenance factor Scale
 0.12 1.00 1:500

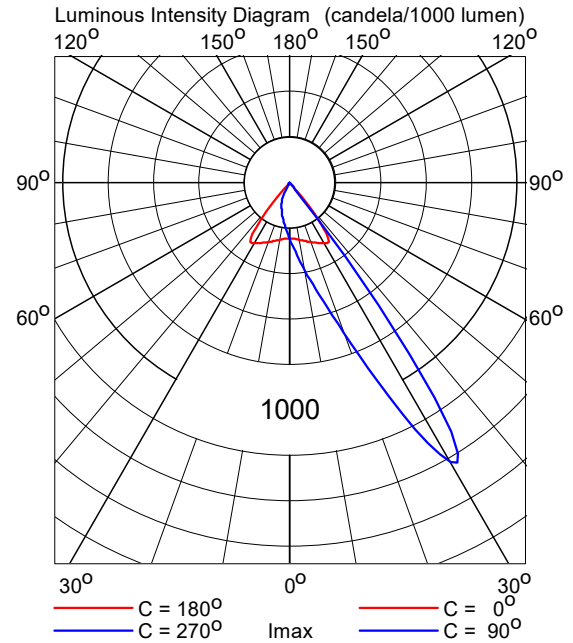
4. Luminaire Details

4.1 Project Luminaires

OptiVision LED gen3.5 2022
BVP528 OUT T35 1xLED2590-4S/757/757 E3/D4I A35-NB LO

Light output ratios
 DLOR : 0.59
 ULOR : 0.00
 TLOR : 0.59
 Ballast : E3/D4I
 Lamp flux : 259000 lm
 Luminaire wattage : 1505.9 W
 Measurement code : LVM2047300

Note: Luminaire data not from database.



OptiVision LED gen3.5 2022
BVP528 OUT T35 1xLED2590-4S/757/757 E3/D4I A35-NMB LO

Light output ratios
 DLOR : 0.58
 ULOR : 0.00
 TLOR : 0.58
 Ballast : E3/D4I
 Lamp flux : 259000 lm
 Luminaire wattage : 1505.9 W
 Measurement code : LVM2L47600

Note: Luminaire data not from database.

