

Edisford Playing Pitches

3G Pitch

Date: 09-03-2026

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

(II)luminance Calculations:

Calculation	Switching Mode	Type	Unit	Ave	Max Min/AveMin/Max
Football	1	Surface Illuminance	lux	233	0.69 0.51
Half Pitch	2	Surface Illuminance	lux	209	0.61 0.42
Spillage	3	Surface Illuminance	lux	43.1	0.00 0.00
Ev Grid 1	3	Surface Illuminance	lux		0.23
Ev Grid 2	3	Surface Illuminance	lux		0.07

Obtrusive Light Calculations:

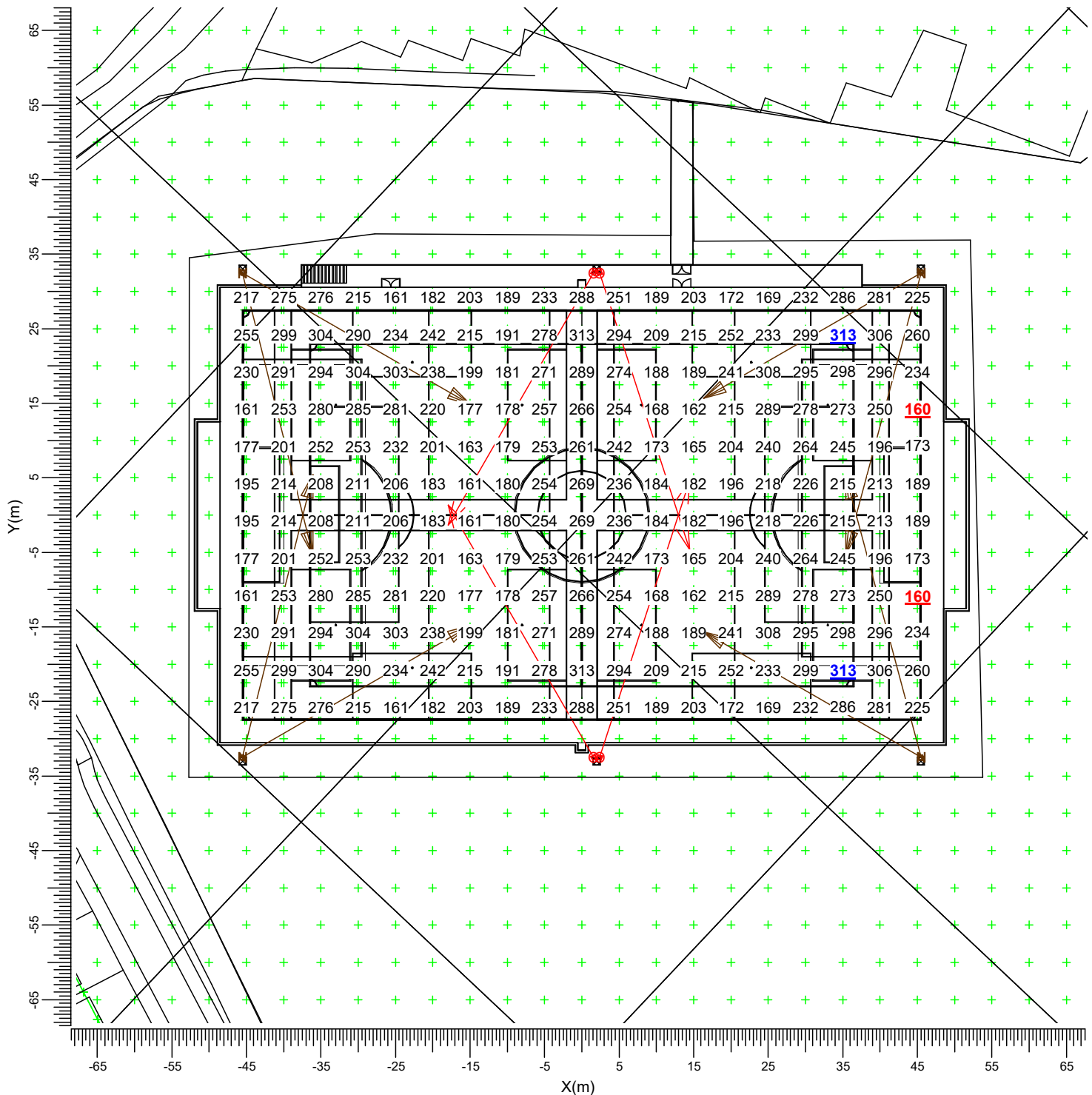
Switching Mode	ULR
1	0.00
2	0.00
3	0.00

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

O



BVP528 OUT T35 A35-NMB L

Average
233

Min/Ave
0.69

Min/Max
0.51

Project maintenance factor
0.90

Scale
1:750

3.2 Half Pitch: Graphical Table

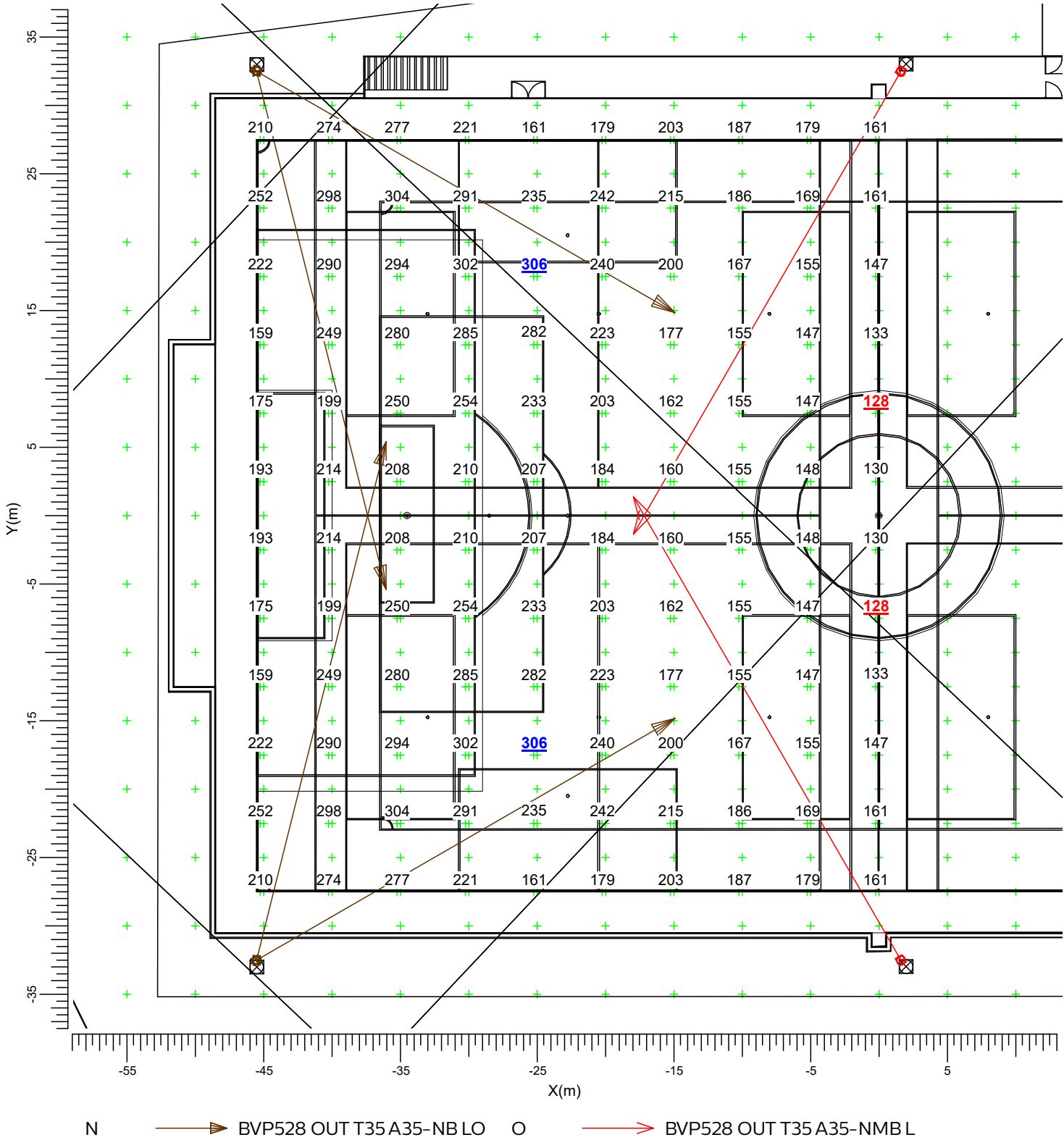
Half Pitch

Grid

Calculation

: Half Pitch at Z = -0.00 m

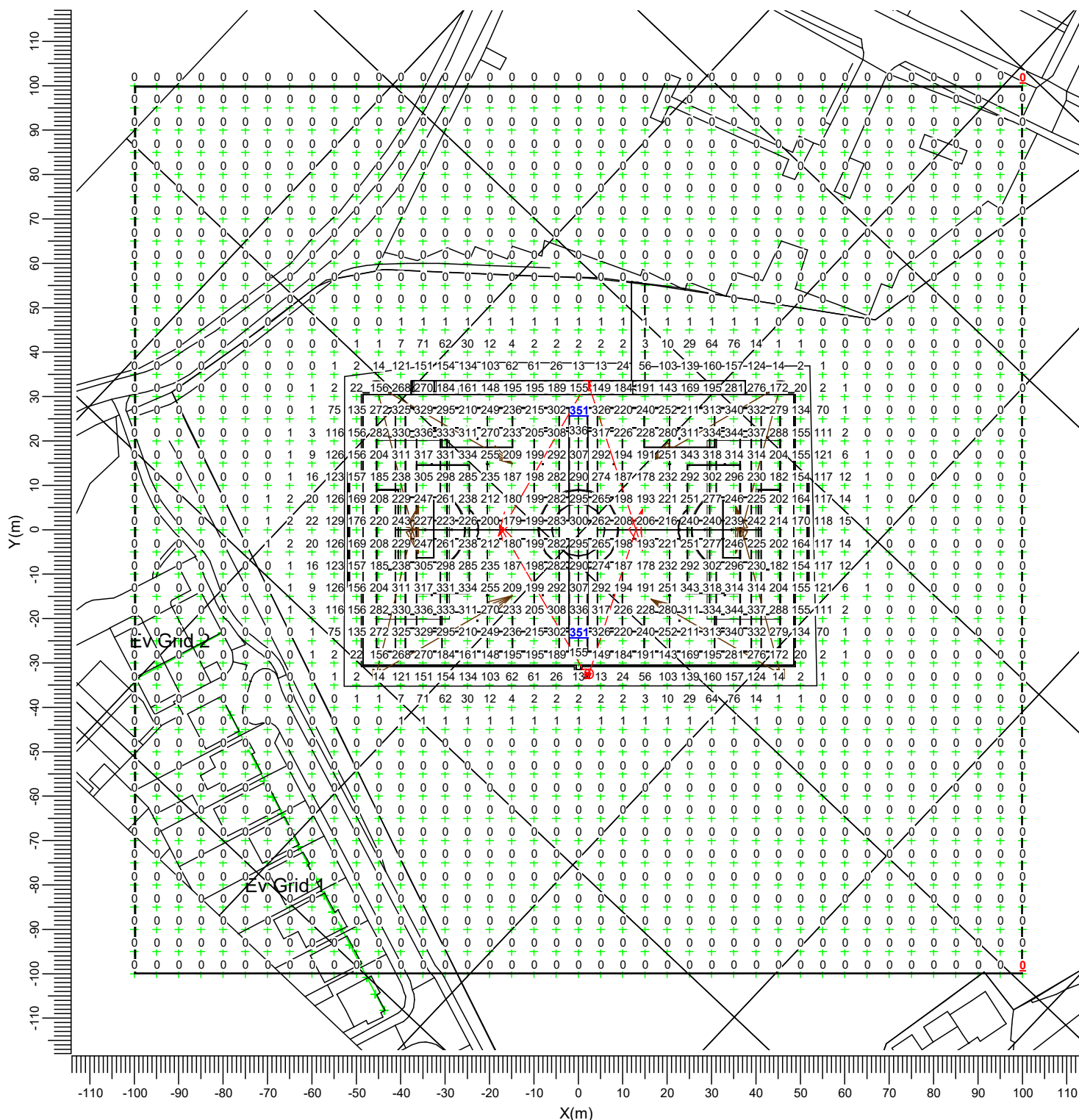
: Surface Illuminance (lux)



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

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

3.4 Spillage: Iso Contour

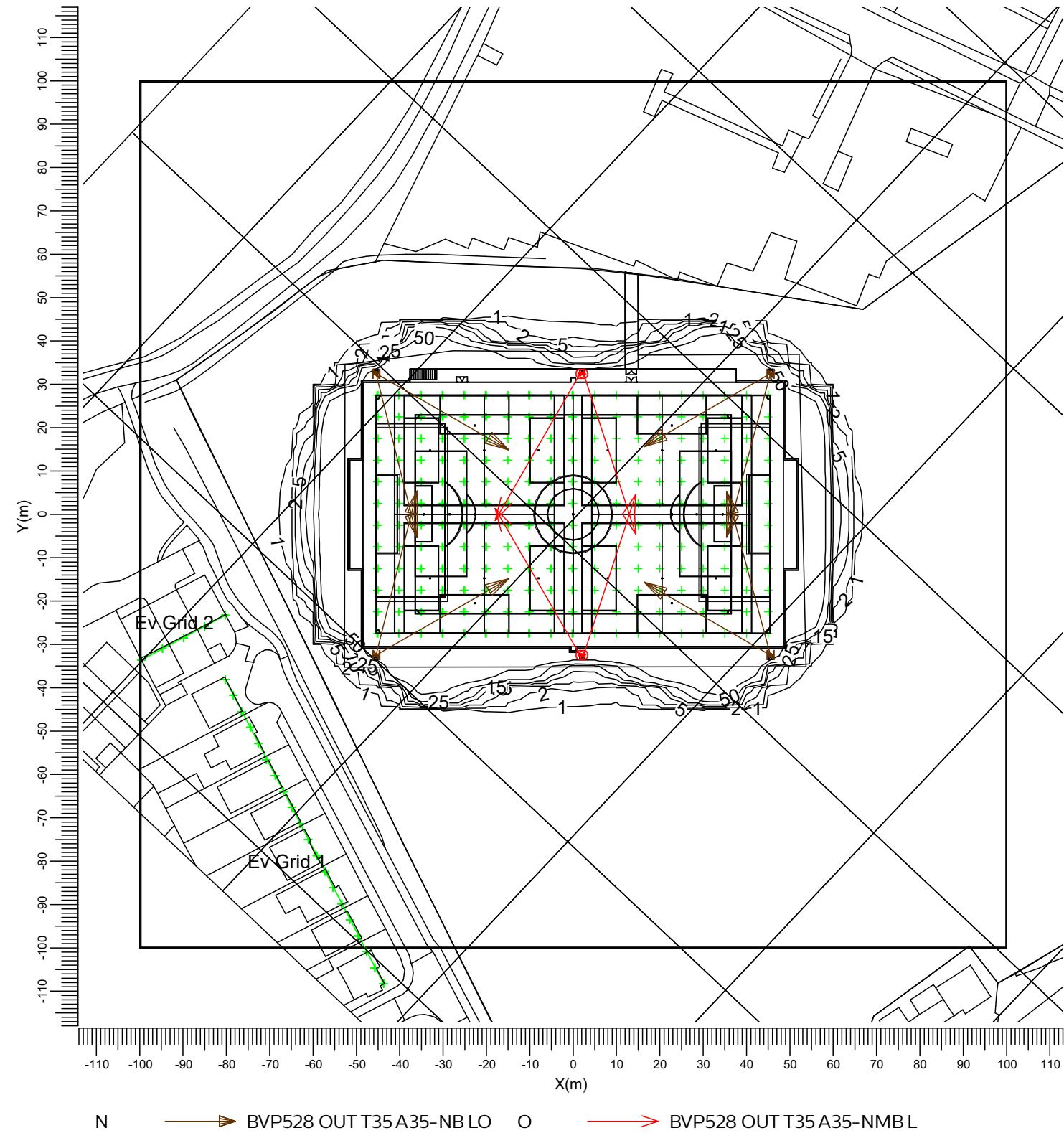
All ON

Grid

Calculation

: Spillage at Z = -0.00 m

: Surface Illuminance (lux)



Average	Min/Ave	Min/Max	Project maintenance factor	Scale
43.1	0.00	0.00	1.00	1:1250

3.5 Spillage: Filled Iso Contour

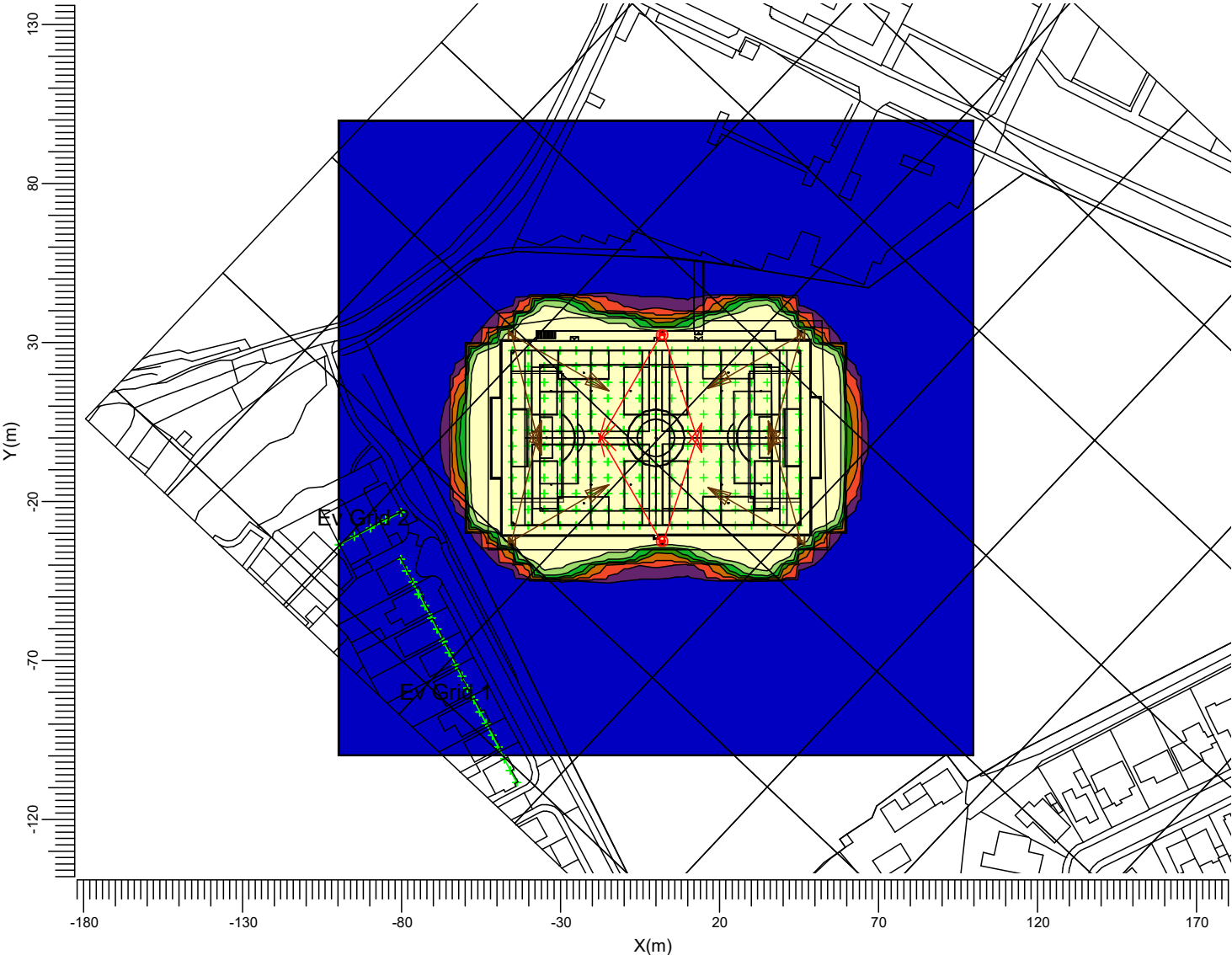
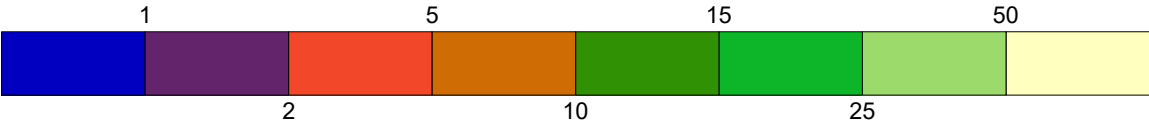
All ON

Grid

Calculation

: Spillage at Z = -0.00 m

: 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

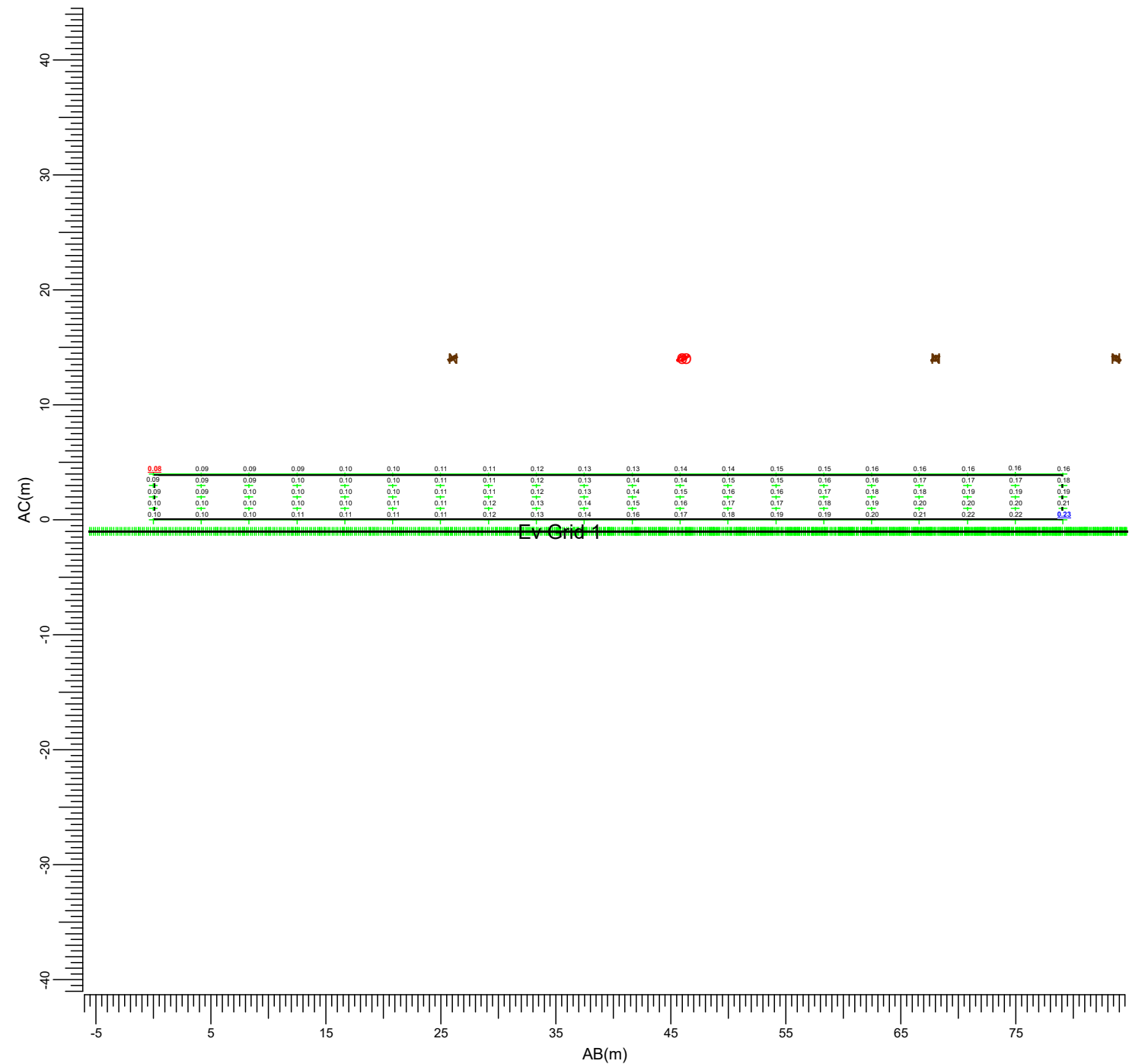
All ON

Grid

: Ev Grid 1

Calculation

: Surface Illuminance (lux)



(-43.80, -108.30, 5.00)

(-43.80, -108.30, 1.00)

C-----D (-80.30, -38.10, 5.00)

A-----B (-80.30, -38.10, 1.00)

N : BVP528 OUT T35 A35-NB LO

O : BVP528 OUT T35 A35-NMB LO

Maximum0.23

Project maintenance factor1.00

Scale1:500

3.7 Ev Grid 2: Graphical Table

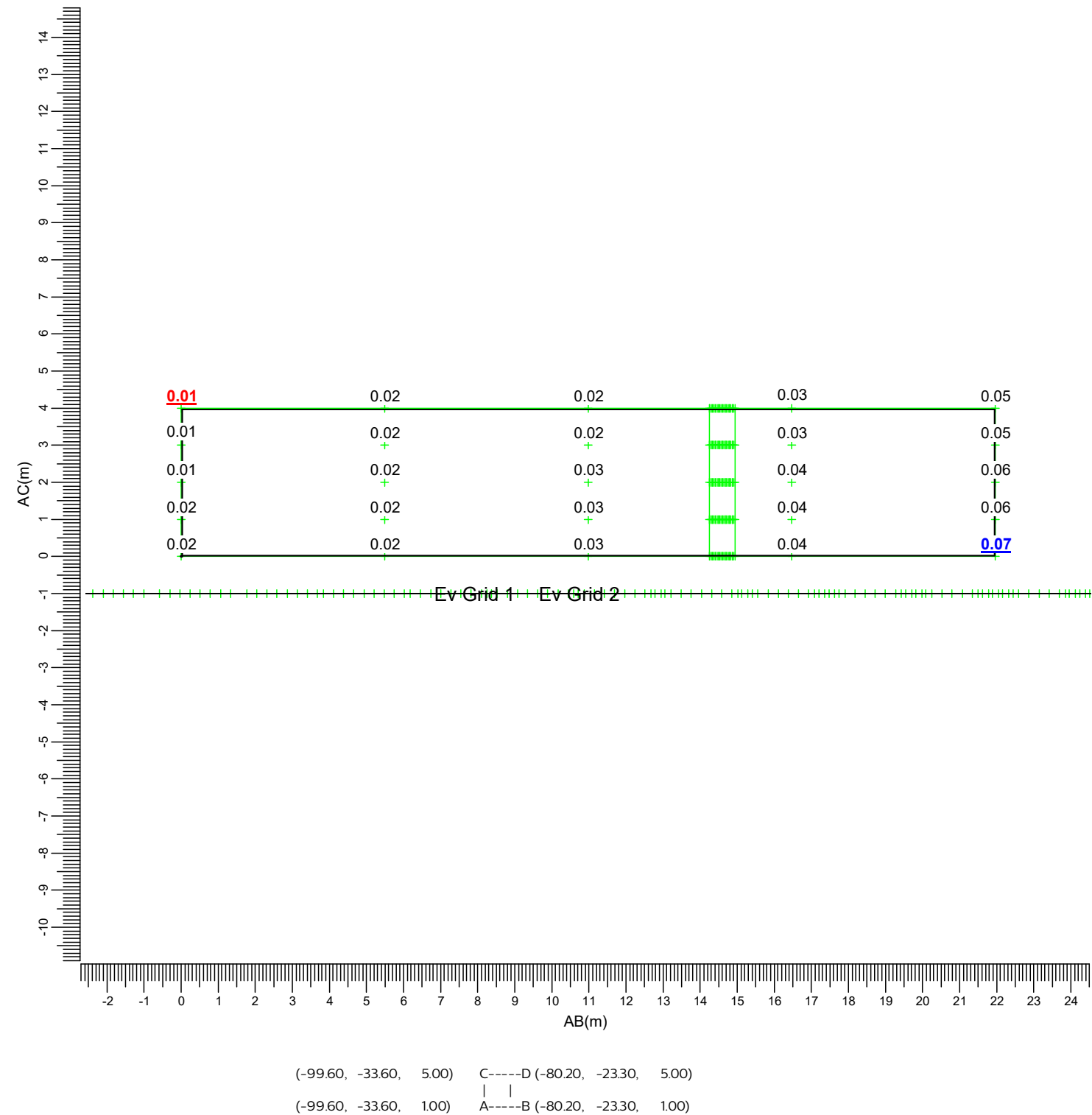
All ON

Grid

: Ev Grid 2

Calculation

: Surface Illuminance (lux)



N : BVP528 OUT T35 A35-NB LO

O : BVP528 OUT T35 A35-NMB LO

Maximum
0.07

Project maintenance factor
1.00

Scale
1:150

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

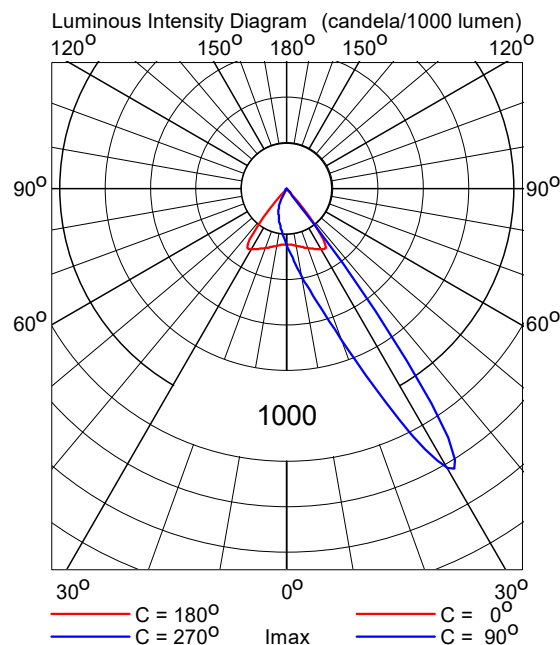
Ballast : E3/D4I

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.

