

Holmfirth High School

LED Floodlighting

Project code: 400404186

Date: 21-11-2019

Designer: Andy Poplett

Description: Pitch - 100m x 64m
Design completed mounting from 8 x 15 metre columns
using 16no Philips OptiVision LED
floodlights to achieve 200lux average.

For the reduced switching 120lux for full pitch training
we recommend dimming of the floodlights to a lower 60%
brightness using the Philips Perfect Play control system.

All Floodlights fitting with BL integral louvres to reduce
overspill and glare for residential neighbours.

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
1:2500

2. Summary

2.1 Observer Information

Code	Observer	Position		
		X (m)	Y (m)	Z (m)
Aa	27 Springwood Road	-13.50	-159.20	1.50
Bb	28 Springwood Road	24.40	-169.00	1.50
Cc	44 Springwood Road	108.50	-55.00	1.50
Dd	46 Springwood Road	88.80	16.30	1.50
Ee	48 Springwood Road	94.20	30.90	1.50
Ff	50 Springwood Road	84.80	67.90	1.50
Gg	3 The Bridges	-17.60	120.20	1.50
Hh	8 The Bridges	15.50	112.40	1.50
Ii	11 The Bridges	46.20	101.50	1.50
Jj	17 The Bridges	-61.60	118.60	1.50
Kk	2 Heys Road	-97.70	119.10	1.50

2.2 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
A	16	BVP527 OUT T20 50K A55-NB +BL	1 * LED2210/757	1580.0	1 * 220880

The total installed power: 25.28 (kWatt)

Number of Luminaires Per Switching Mode:

Switching Mode	Luminaire Code	Power (kWatt)
	A	
Pitch 1 200lux	16	25.28
Pitch 1 120lux	16	-
Pitch 1 Half 1	8	12.64
Pitch 1 Half 2	8	12.64
ALL ON	16	25.28

Number of Luminaires Per Arrangement:

Arrangement	Luminaire Code	Power (kWatt)
	A	
Point	4	6.32
Point1	4	6.32
Point2	4	6.32
Point3	4	6.32

2.3 Calculation Results

Switching Modes:

Code	Switching Mode	Maintenance factor
1	Pitch 1 200lux	0.90
2	Pitch 1 120lux	0.90
3	Pitch 1 Half 1	0.90
4	Pitch 1 Half 2	0.90
5	ALL ON	1.00

(II)luminance Calculations:

Calculation	Switching Mode	Type	Unit	Ave	Max Min/AveMin/Max
Pitch 1 - 200lux	1	Surface Illuminance	lux	237	0.70 0.53
Pitch 1 - 120lux	2	Surface Illuminance	lux	142	0.70 0.53
Pitch 1 Half 1	3	Surface Illuminance	lux	221	0.60 0.42
Pitch 1 Half 2	4	Surface Illuminance	lux	221	0.60 0.42
Spillage @ ground level	5	Surface Illuminance	lux	33.7	0.00 0.00
Spillage @ 1.8metres	5	Horizontal Illuminance	lux	33.6	0.00 0.00
27 Springwood Road	5	Surface Illuminance	lux		0.02
28 Springwood Road	5	Surface Illuminance	lux		0.01
44 Springwood Road	5	Surface Illuminance	lux		0.79
46 Springwood Road	5	Surface Illuminance	lux		1.38
48 Springwood Road	5	Surface Illuminance	lux		0.85
50 Springwood Road	5	Surface Illuminance	lux		0.75
17 The Bridges	5	Surface Illuminance	lux		0.10
3 The Bridges	5	Surface Illuminance	lux		0.07
8 The Bridges	5	Surface Illuminance	lux		0.08
11 The Bridges	5	Surface Illuminance	lux		0.33
2 Heys Road	5	Surface Illuminance	lux		0.24

Obtrusive Light Calculations:

Switching Mode	Observer Code	Luminaire Code	Position			Aiming Angles			Maximum Intensity (cd)
			X (m)	Y (m)	Z (m)	Rot.	Tilt90	Tilt0	
5	Aa	A	36.00	-50.00	15.00	170.00	67.00	-0.00	171
5	Bb	A	-36.00	50.00	15.00	-35.00	68.00	0.00	80
5	Cc	A	-36.00	50.00	15.00	-35.00	68.00	0.00	3397
5	Dd	A	-36.00	50.00	15.00	-10.00	67.00	0.00	3609
5	Ee	A	-36.00	-16.50	15.00	25.00	67.00	0.00	3556
5	Ff	A	-36.00	16.50	15.00	15.00	67.00	0.00	3400
5	Gg	A	36.00	-50.00	15.00	145.00	68.00	-0.00	276
5	Hh	A	-36.00	-50.00	15.00	35.00	68.00	0.00	327
5	Ii	A	-36.00	16.50	15.00	15.00	67.00	0.00	1313
5	Jj	A	36.00	-50.00	15.00	145.00	68.00	-0.00	1147
5	Kk	A	36.00	-50.00	15.00	145.00	68.00	-0.00	2238

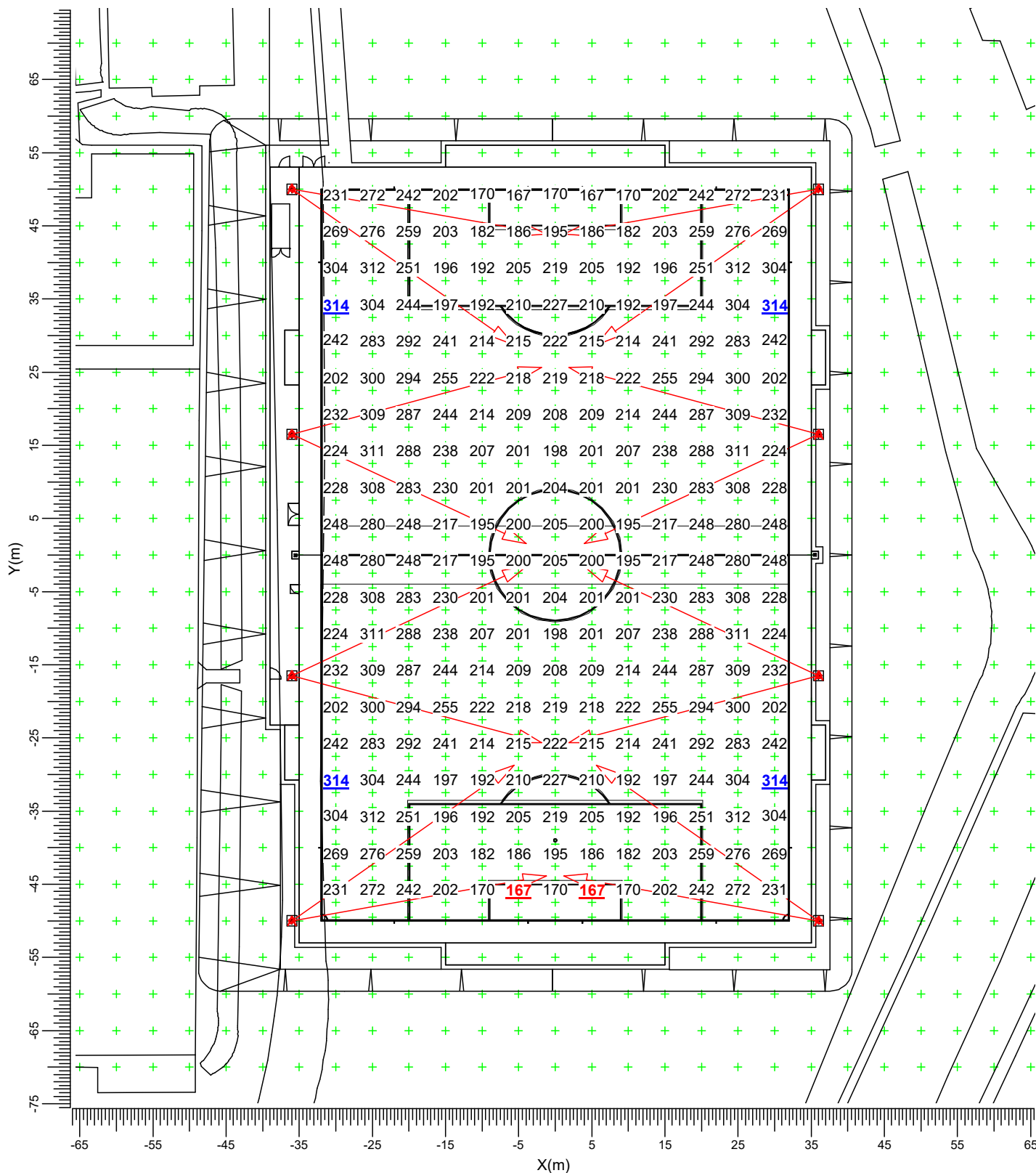
Switching Mode	ULR
1	0.00
2	0.00
3	0.00
4	0.00
5	0.00

3. Calculation Results

3.1 Pitch 1 - 200lux: Graphical Table

Pitch 1 200lux

Grid : Pitch 1 at Z = -0.00 m
Calculation : Surface Illuminance (lux)



A ➤ BVP527 OUT T20 50K A55-NB

Average
237

Min/Ave
0.70

Min/Max
0.53

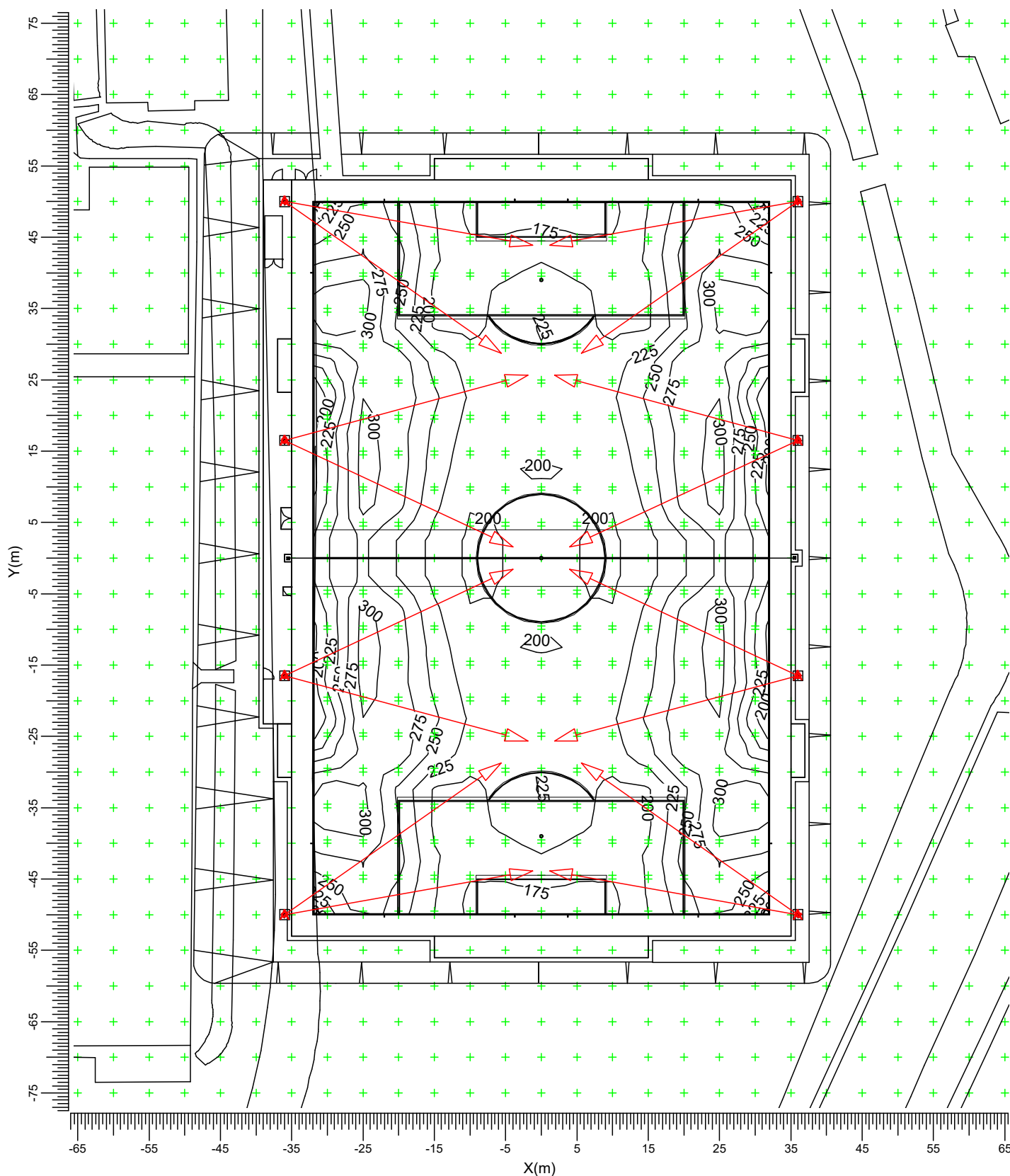
Project maintenance factor
0.90

Scale
1:750

3.2 Pitch 1 - 200lux: Iso Contour

Pitch 1 200lux

Grid : Pitch 1 at Z = -0.00 m
Calculation : Surface Illuminance (lux)



A ———▶ BVP527 OUT T20 50K A55-NB

Average
237

Min/Ave
0.70

Min/Max
0.53

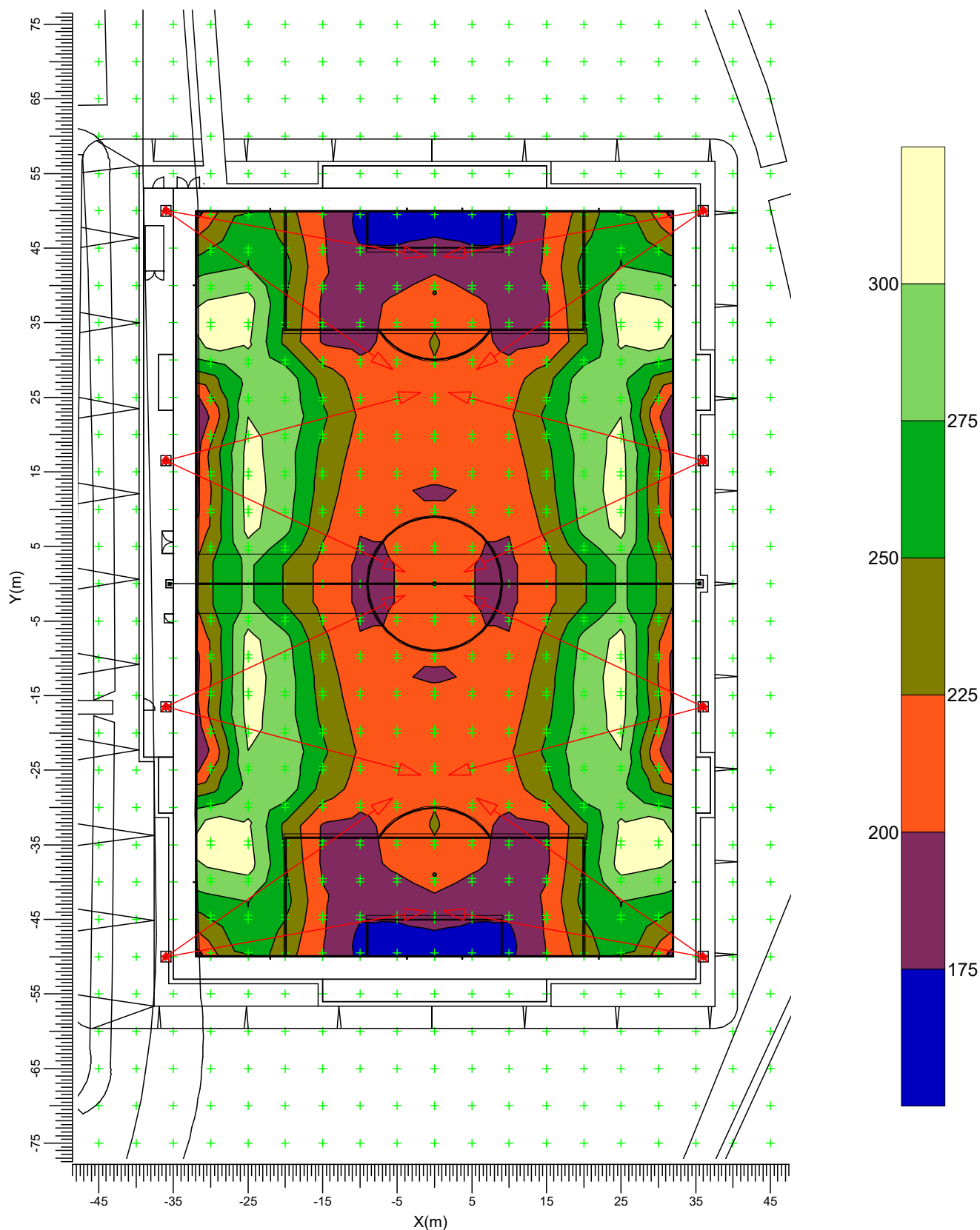
Project maintenance factor
0.90

Scale
1:750

3.3 Pitch 1 - 200lux: Filled Iso Contour

Pitch 1 200lux

Grid : Pitch 1 at Z = -0.00 m
Calculation : Surface Illuminance (lux)



A ➤ BVP527 OUT T20 50K A55-NB

Average
237

Min/Ave
0.70

Min/Max
0.53

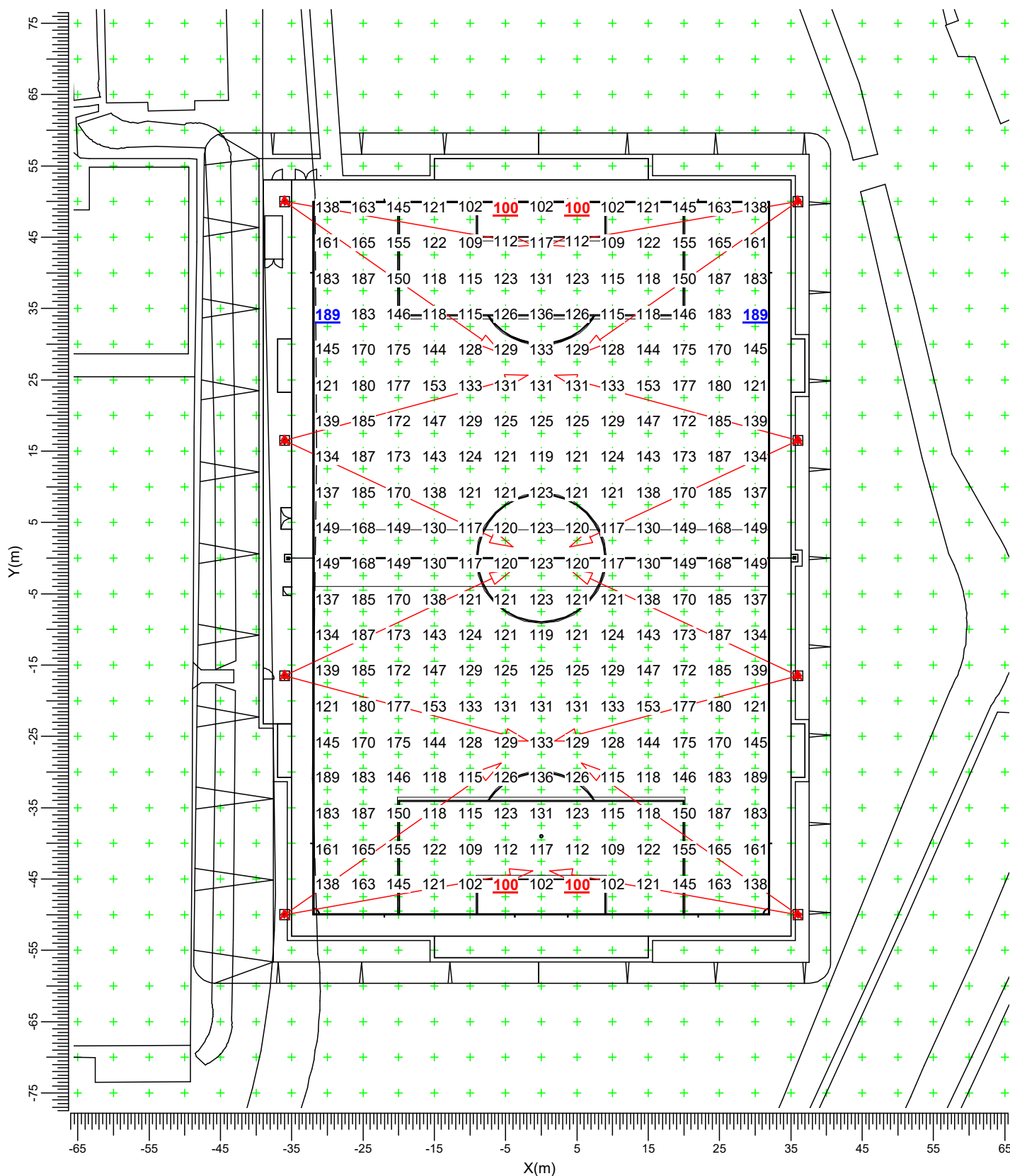
Project maintenance factor
0.90

Scale
1:750

3.4 Pitch 1 - 120lux: Graphical Table

Pitch 1 120lux

Grid : Pitch 1 at Z = -0.00 m
Calculation : Surface Illuminance (lux)



A → BVP527 OUT T20 50K A55-NB

Average
142

Min/Ave
0.70

Min/Max
0.53

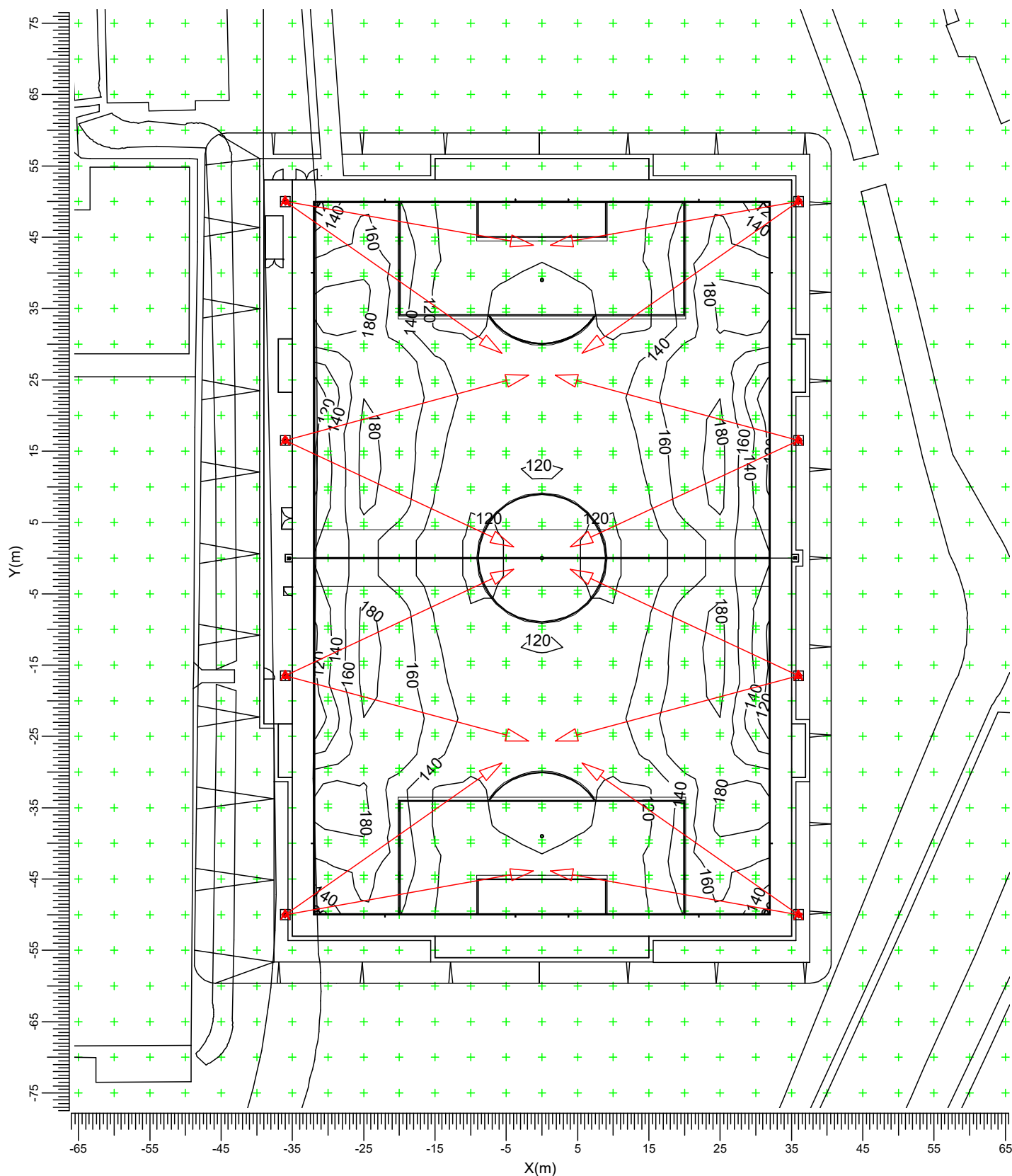
Project maintenance factor
0.90

Scale
1:750

3.5 Pitch 1 - 120lux: Iso Contour

Pitch 1 120lux

Grid : Pitch 1 at Z = -0.00 m
Calculation : Surface Illuminance (lux)



A → BVP527 OUT T20 50K A55-NB

Average
142

Min/Ave
0.70

Min/Max
0.53

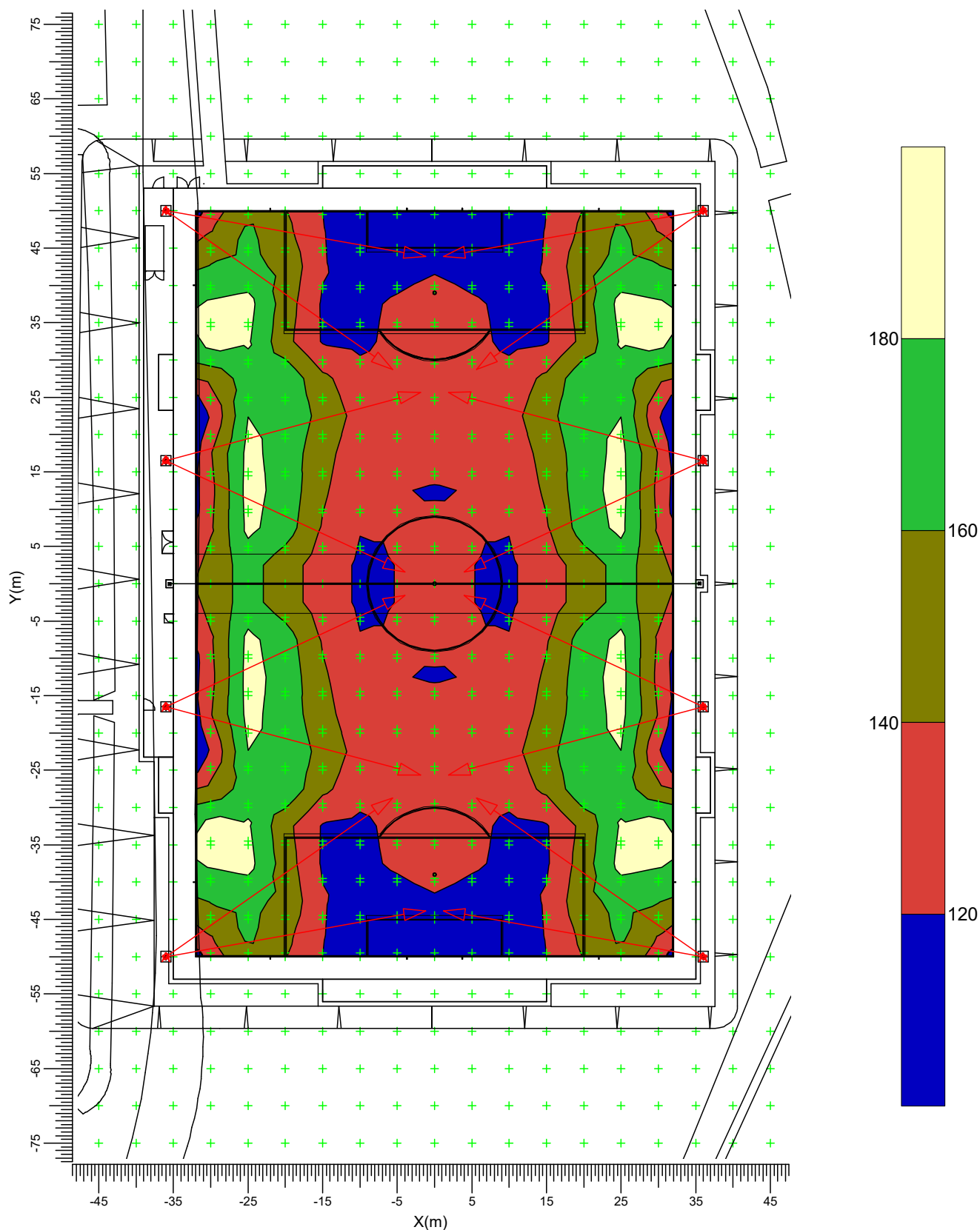
Project maintenance factor
0.90

Scale
1:750

3.6 Pitch 1 - 120lux: Filled Iso Contour

Pitch 1 120lux

Grid : Pitch 1 at Z = -0.00 m
Calculation : Surface Illuminance (lux)



A BVP527 OUT T20 50K A55-NB

Average
142

Min/Ave
0.70

Min/Max
0.53

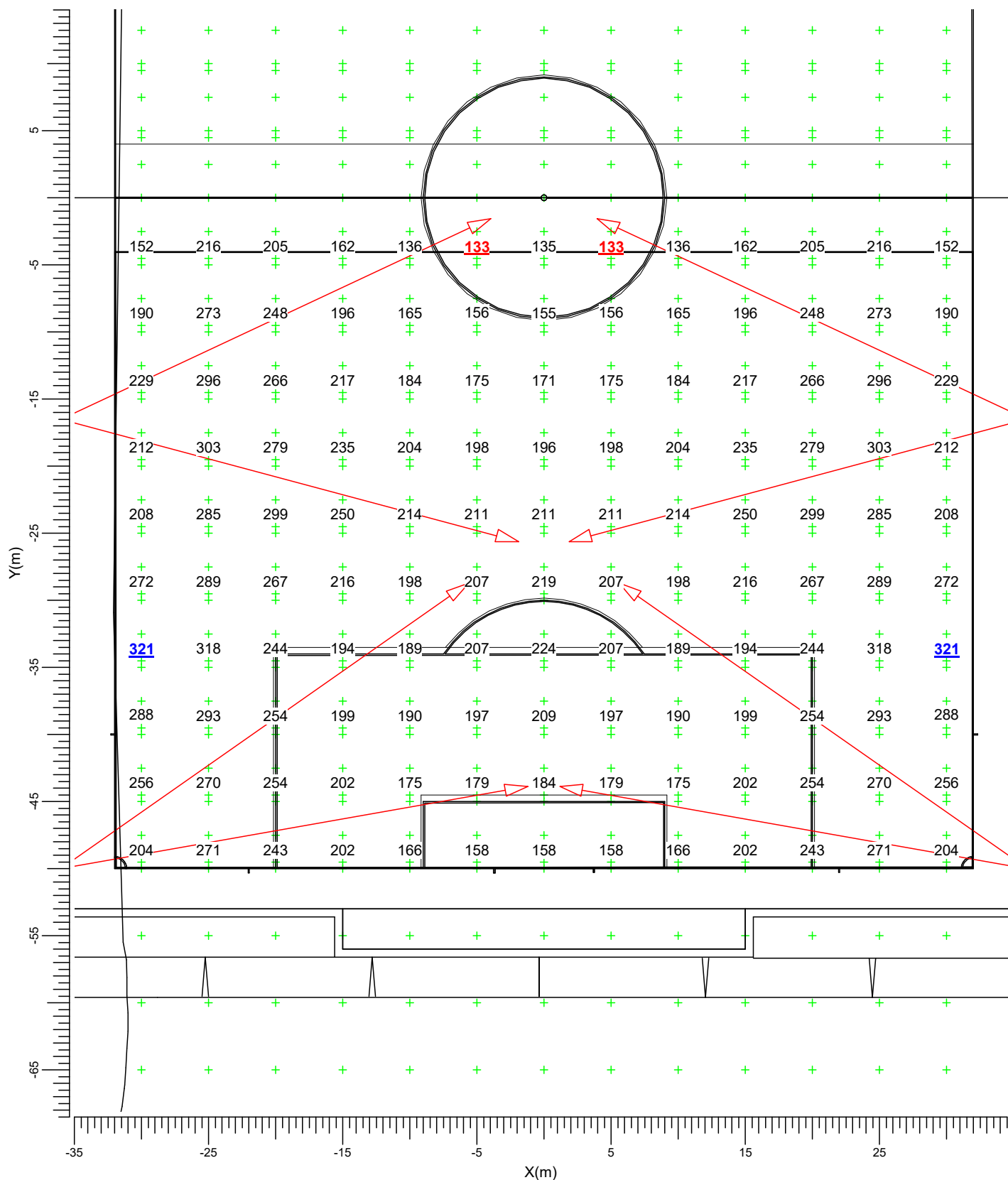
Project maintenance factor
0.90

Scale
1:750

3.7 Pitch 1 Half 1: Graphical Table

Pitch 1 Half 1

Grid : Pitch 1 Half 1 at Z = -0.00 m
Calculation : Surface Illuminance (lux)



A BVP527 OUT T20 50K A55-NB

Average
221

Min/Ave
0.60

Min/Max
0.42

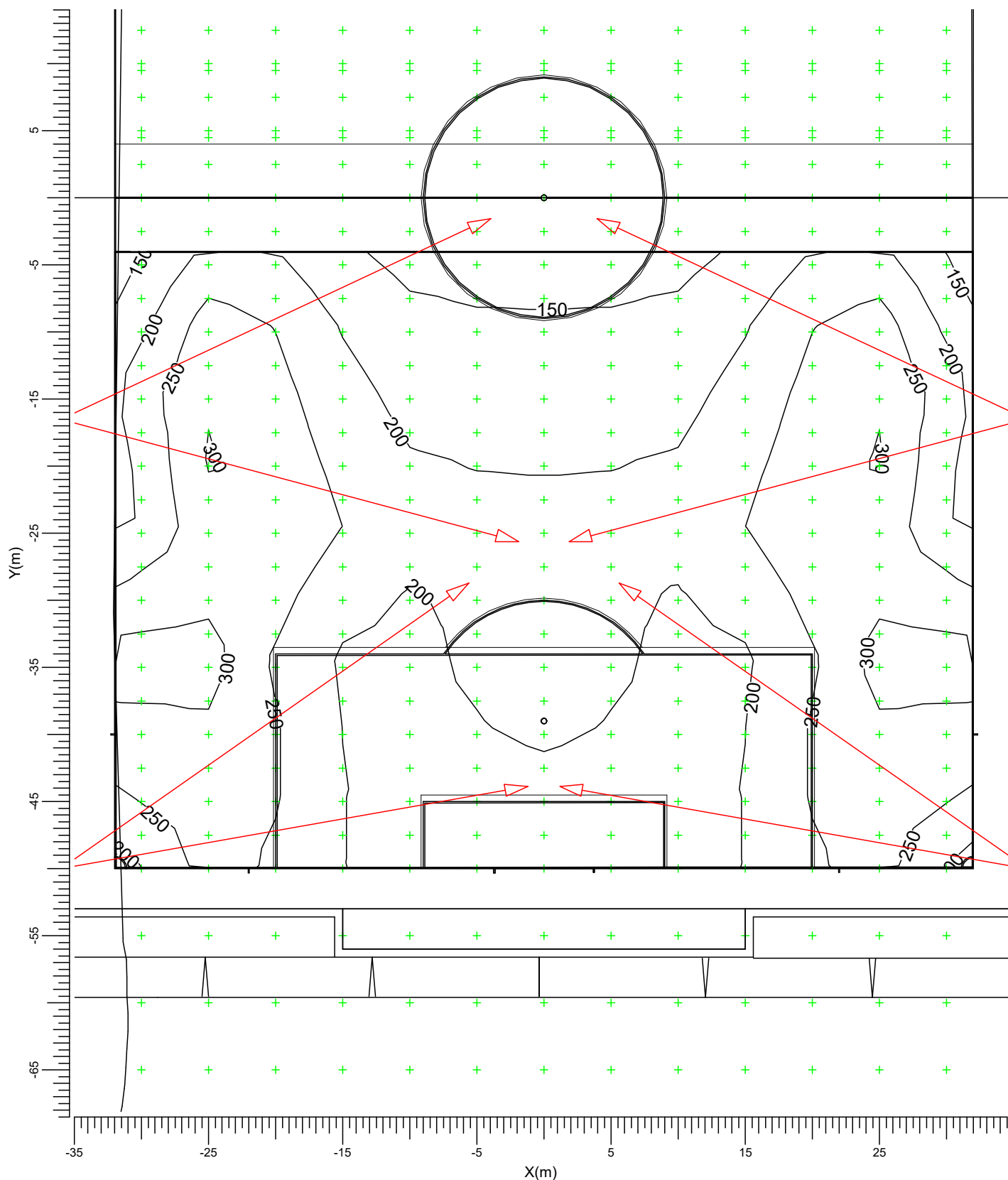
Project maintenance factor
0.90

Scale
1:400

3.8 Pitch 1 Half 1: Iso Contour

Pitch 1 Half 1

Grid : Pitch 1 Half 1 at Z = -0.00 m
Calculation : Surface Illuminance (lux)



A BVP527 OUT T20 50K A55-NB

Average
221

Min/Ave
0.60

Min/Max
0.42

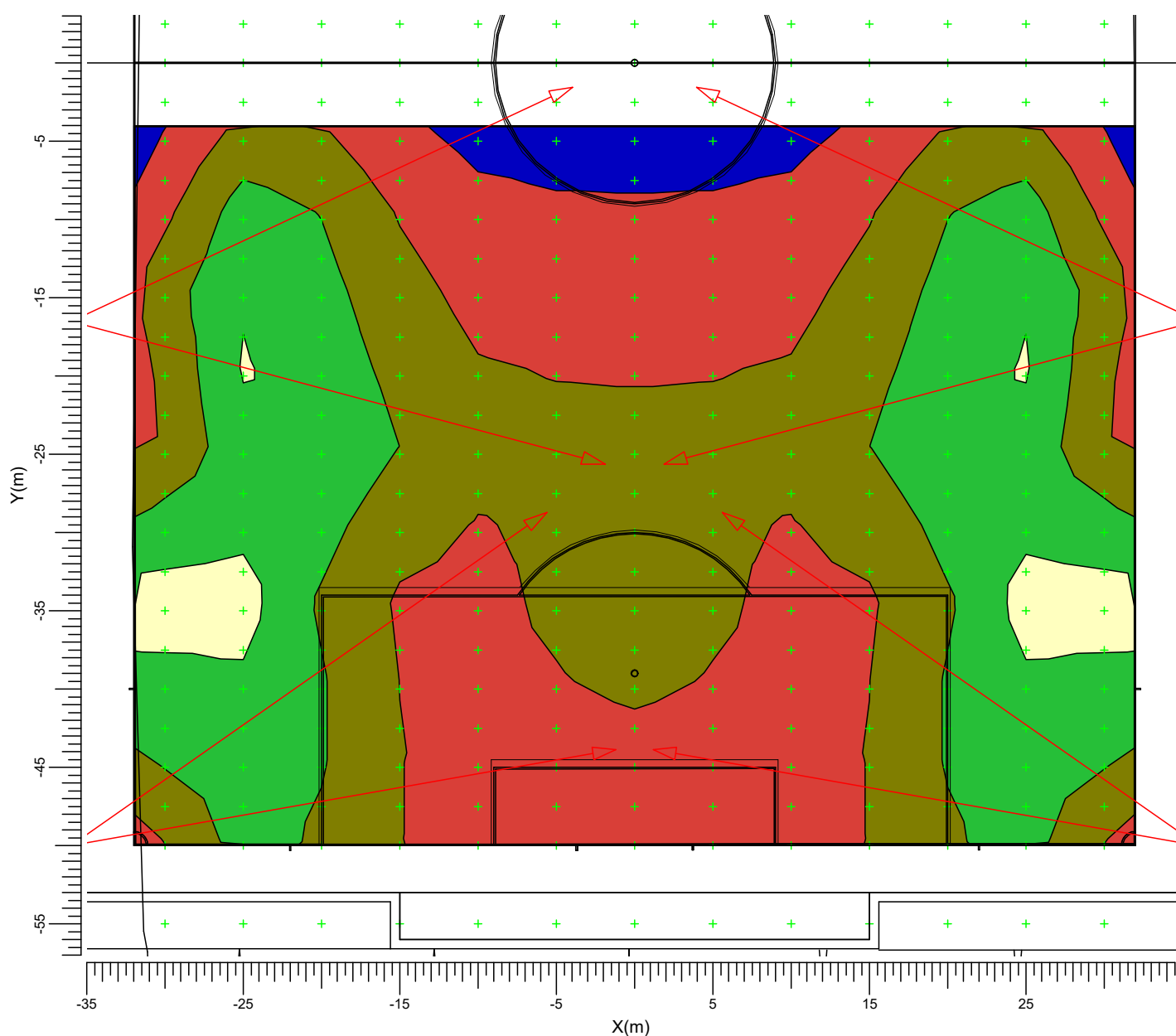
Project maintenance factor
0.90

Scale
1:400

3.9 Pitch 1 Half 1: Filled Iso Contour

Pitch 1 Half 1

Grid : Pitch 1 Half 1 at Z = -0.00 m
Calculation : Surface Illuminance (lux)



A BVP527 OUT T20 50K A55-NB

Average
221

Min/Ave
0.60

Min/Max
0.42

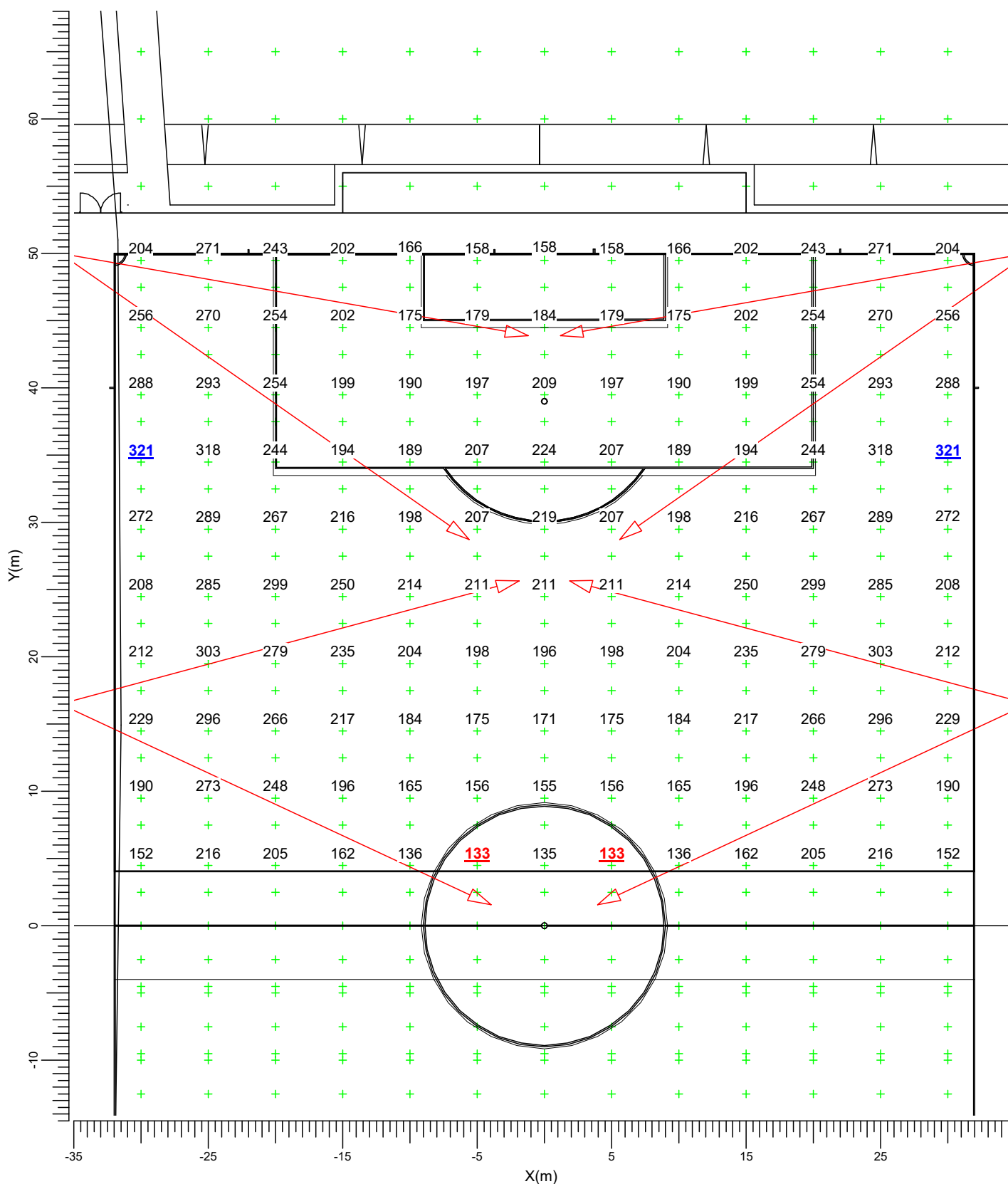
Project maintenance factor
0.90

Scale
1:400

3.10 Pitch 1 Half 2: Graphical Table

Pitch 1 Half 2

Grid : Pitch 1 Half 2 at Z = -0.00 m
Calculation : Surface Illuminance (lux)



A BVP527 OUT T20 50K A55-NB

Average
221

Min/Ave
0.60

Min/Max
0.42

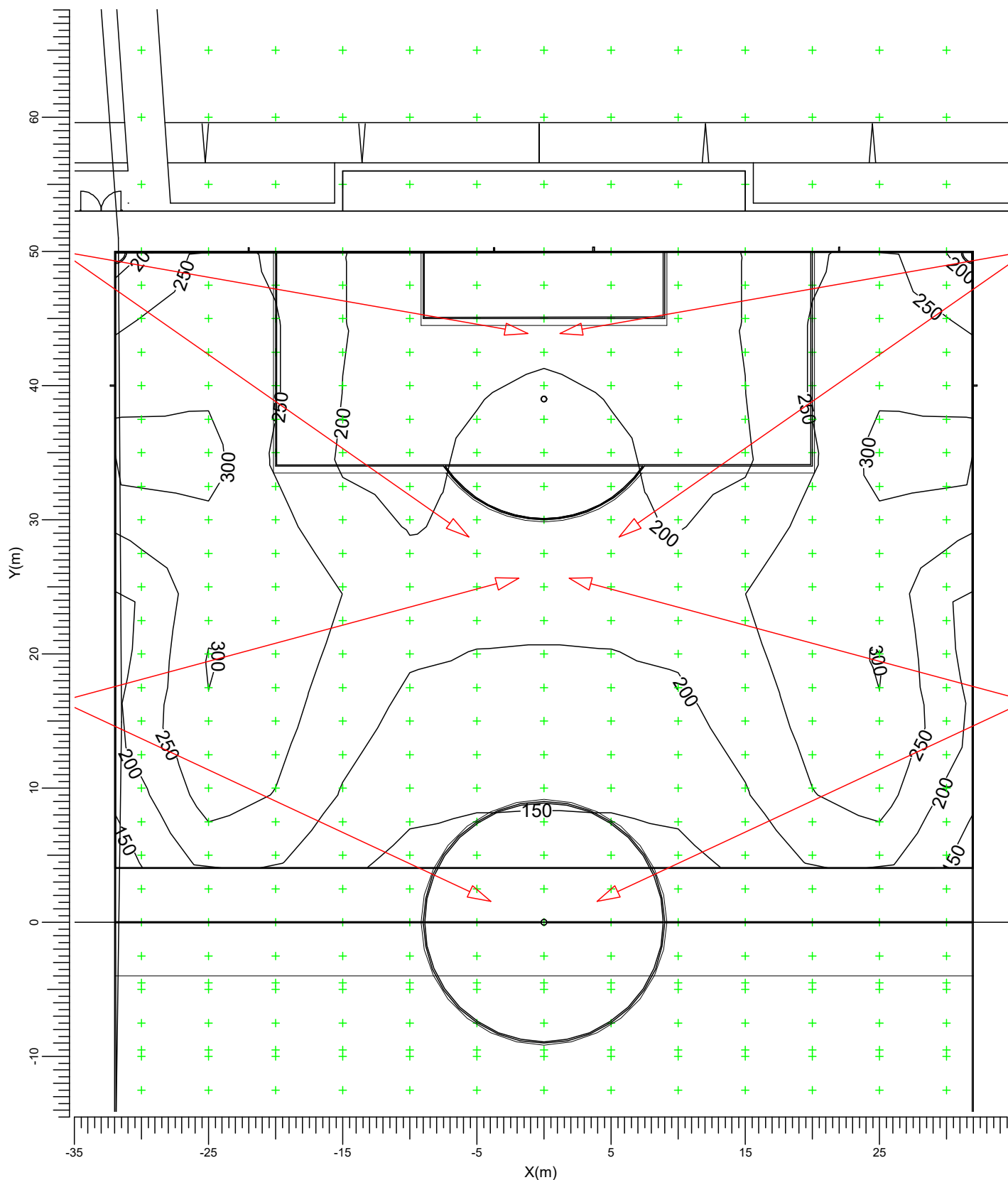
Project maintenance factor
0.90

Scale
1:400

3.11 Pitch 1 Half 2: Iso Contour

Pitch 1 Half 2

Grid : Pitch 1 Half 2 at Z = -0.00 m
Calculation : Surface Illuminance (lux)



A  BVP527 OUT T20 50K A55-NB

Average
221

Min/Ave
0.60

Min/Max
0.42

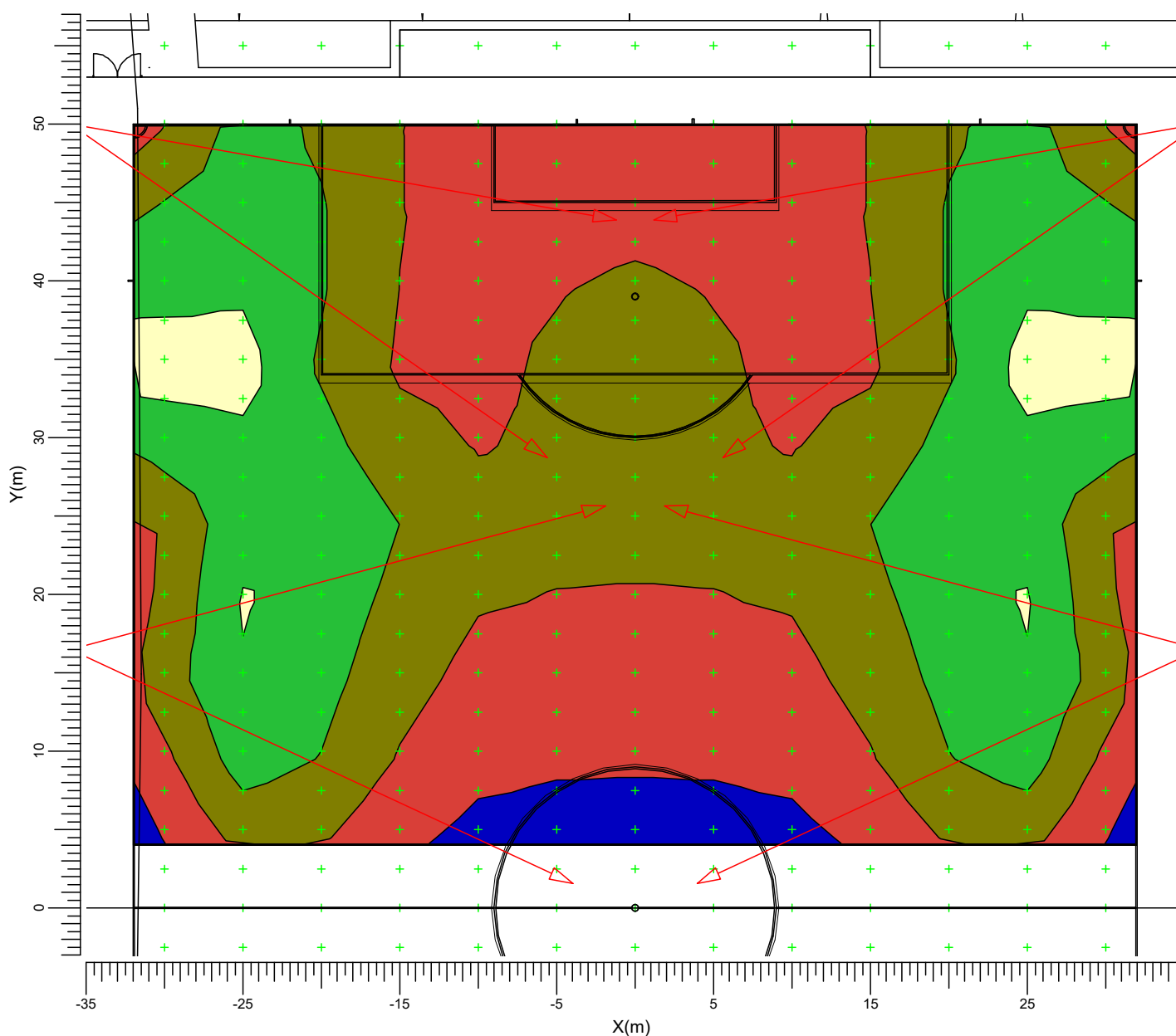
Project maintenance factor
0.90

Scale
1:400

3.12 Pitch 1 Half 2: Filled Iso Contour

Pitch 1 Half 2

Grid : Pitch 1 Half 2 at Z = -0.00 m
Calculation : Surface Illuminance (lux)



A  BVP527 OUT T20 50K A55-NB

Average
221

Min/Ave
0.60

Min/Max
0.42

Project maintenance factor
0.90

Scale
1:400

3.13 Spillage @ ground level: Graphical Table

ALL ON

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



A  BVP527 OUT T20 50K A55-NB

Average
33.7

Min/Ave
0.00

Min/Max
0.00

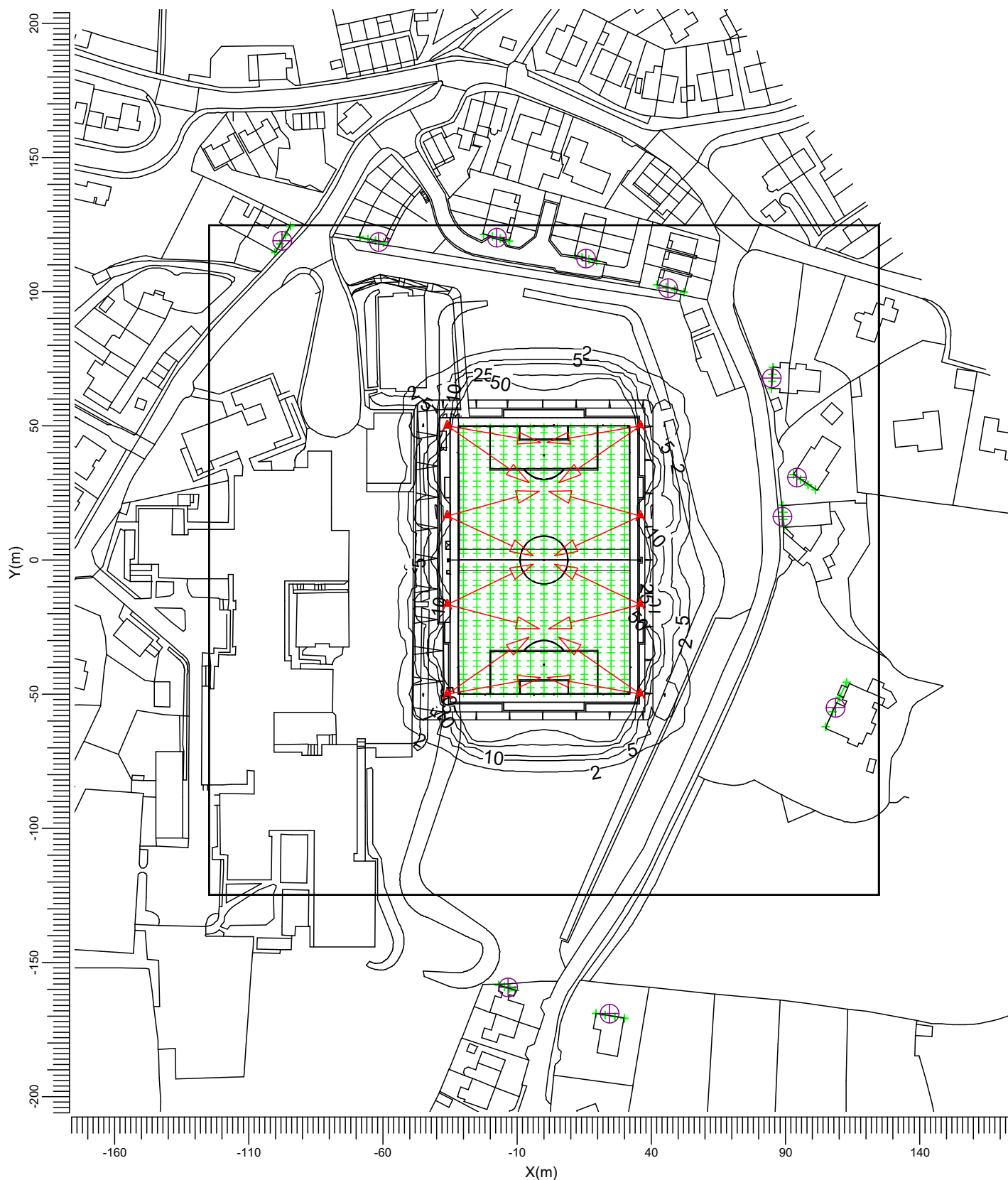
Project maintenance factor
1.00

Scale
1:2000

3.14 Spillage @ ground level: Iso Contour

ALL ON

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



A ➤ BVP527 OUT T20 50K A55-NB

Average
33.7

Min/Ave
0.00

Min/Max
0.00

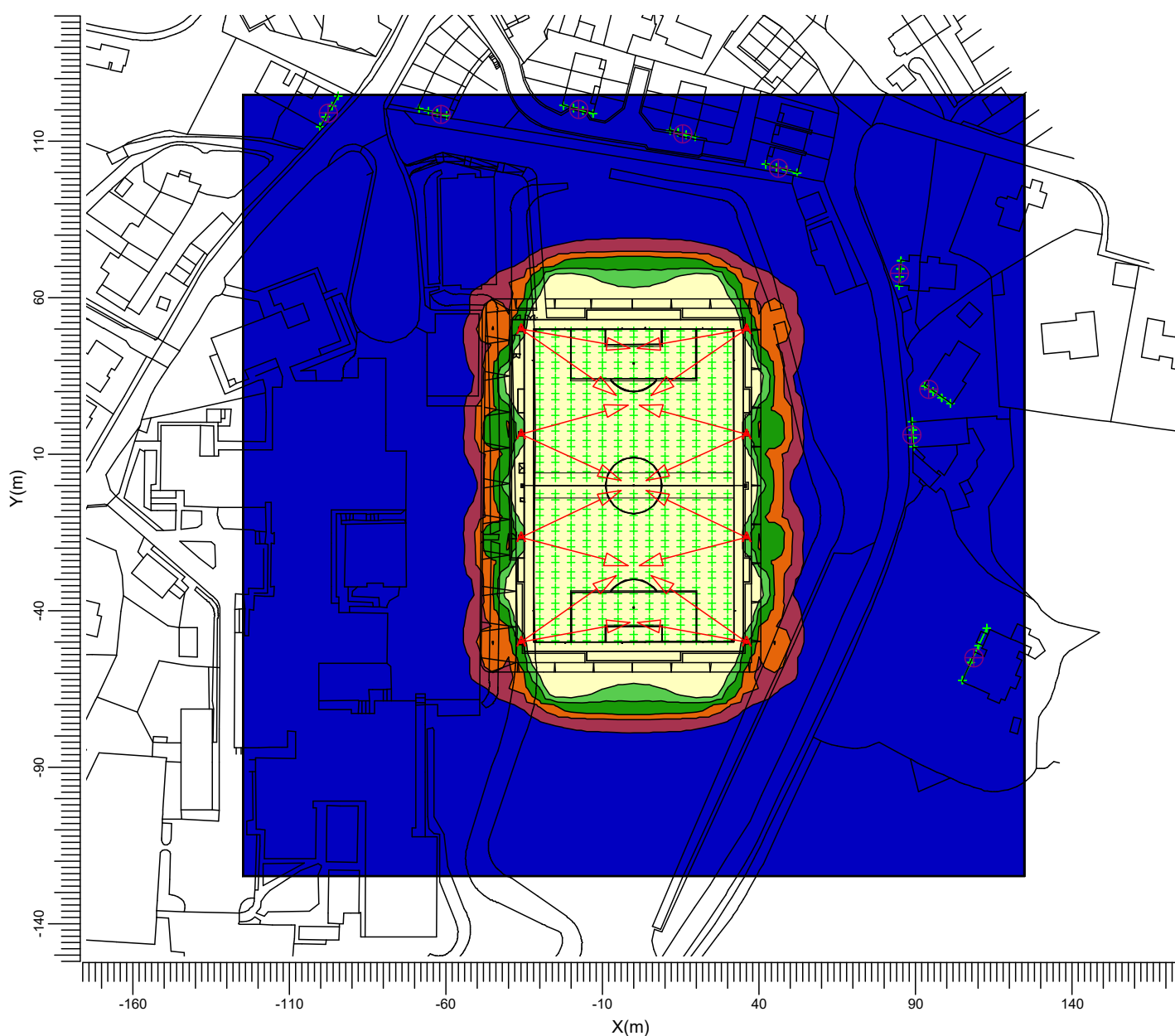
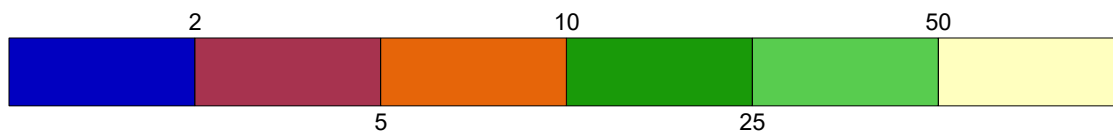
Project maintenance factor
1.00

Scale
1:2000

3.15 Spillage @ ground level: Filled Iso Contour

ALL ON

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



A  BVP527 OUT T20 50K A55-NB

Average
33.7

Min/Ave
0.00

Min/Max
0.00

Project maintenance factor
1.00

Scale
1:2000

3.16 Spillage @ 1.8metres: Graphical Table

ALL ON

Grid : Spillage at Z = -0.00 m
Calculation : Horizontal Illuminance (lux)
Height above grid : 1.80 m



A  BVP527 OUT T20 50K A55-NB

Average
33.6

Min/Ave
0.00

Min/Max
0.00

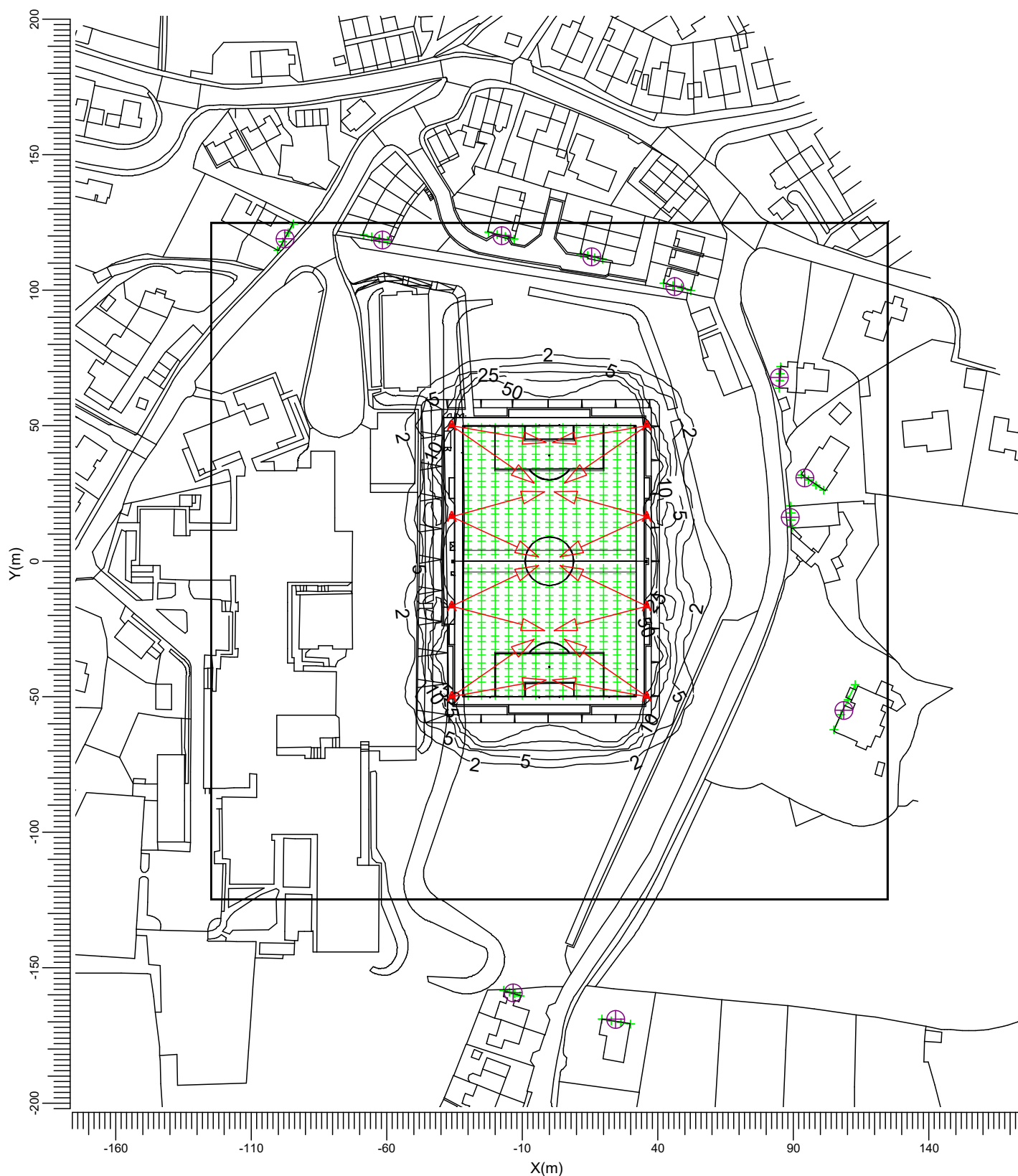
Project maintenance factor
1.00

Scale
1:2000

3.17 Spillage @ 1.8metres: Iso Contour

ALL ON

Grid : Spillage at Z = -0.00 m
Calculation : Horizontal Illuminance (lux)
Height above grid : 1.80 m



A  BVP527 OUT T20 50K A55-NB

Average
33.6

Min/Ave
0.00

Min/Max
0.00

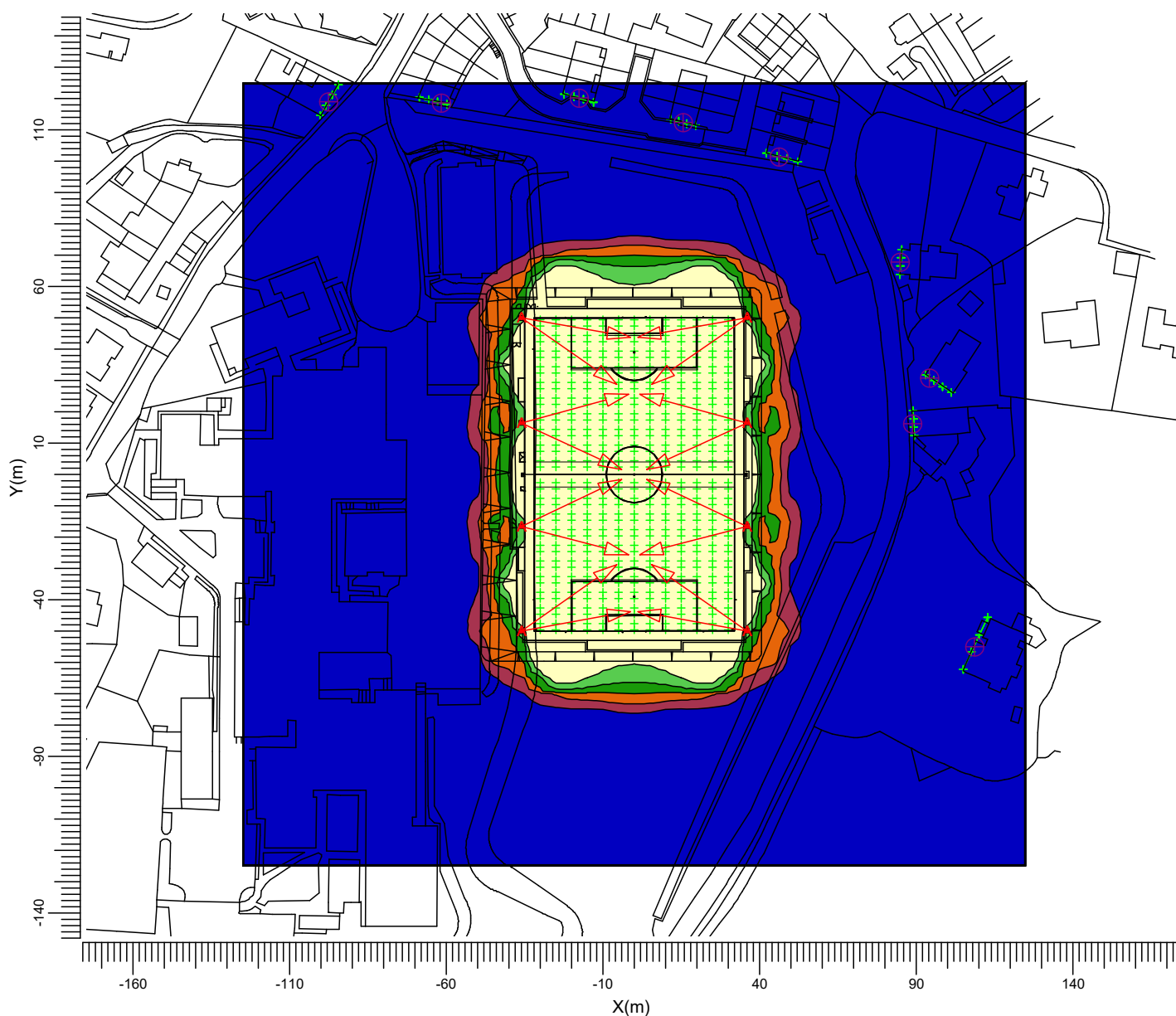
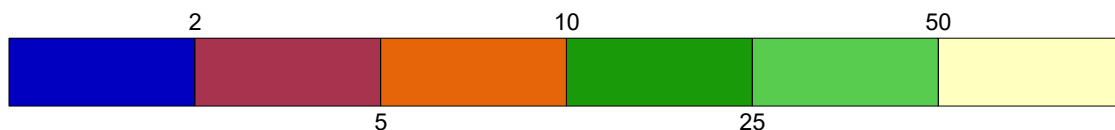
Project maintenance factor
1.00

Scale
1:2000

3.18 Spillage @ 1.8metres: Filled Iso Contour

ALL ON

Grid : Spillage at Z = -0.00 m
Calculation : Horizontal Illuminance (lux)
Height above grid : 1.80 m



A  BVP527 OUT T20 50K A55-NB

Average
33.6

Min/Ave
0.00

Min/Max
0.00

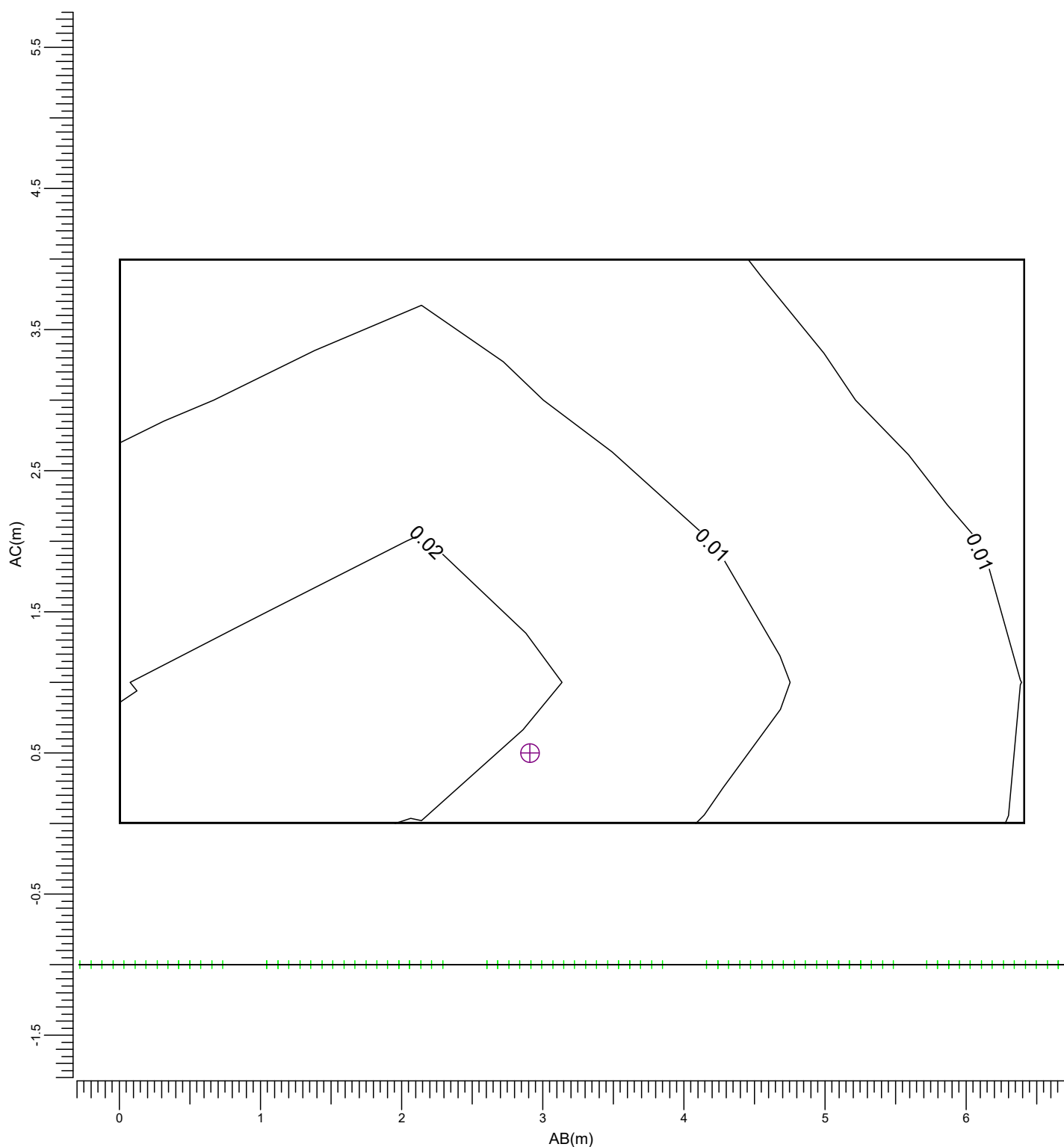
Project maintenance factor
1.00

Scale
1:2000

3.19 27 Springwood Road: Iso Contour

ALL ON

Grid : 27 Springwood Road
Calculation : Surface Illuminance (lux)



(-10.80, -160.30, 5.00) C-----D (-16.90, -158.30, 5.00)
| |
(-10.80, -160.30, 1.00) A-----B (-16.90, -158.30, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.02

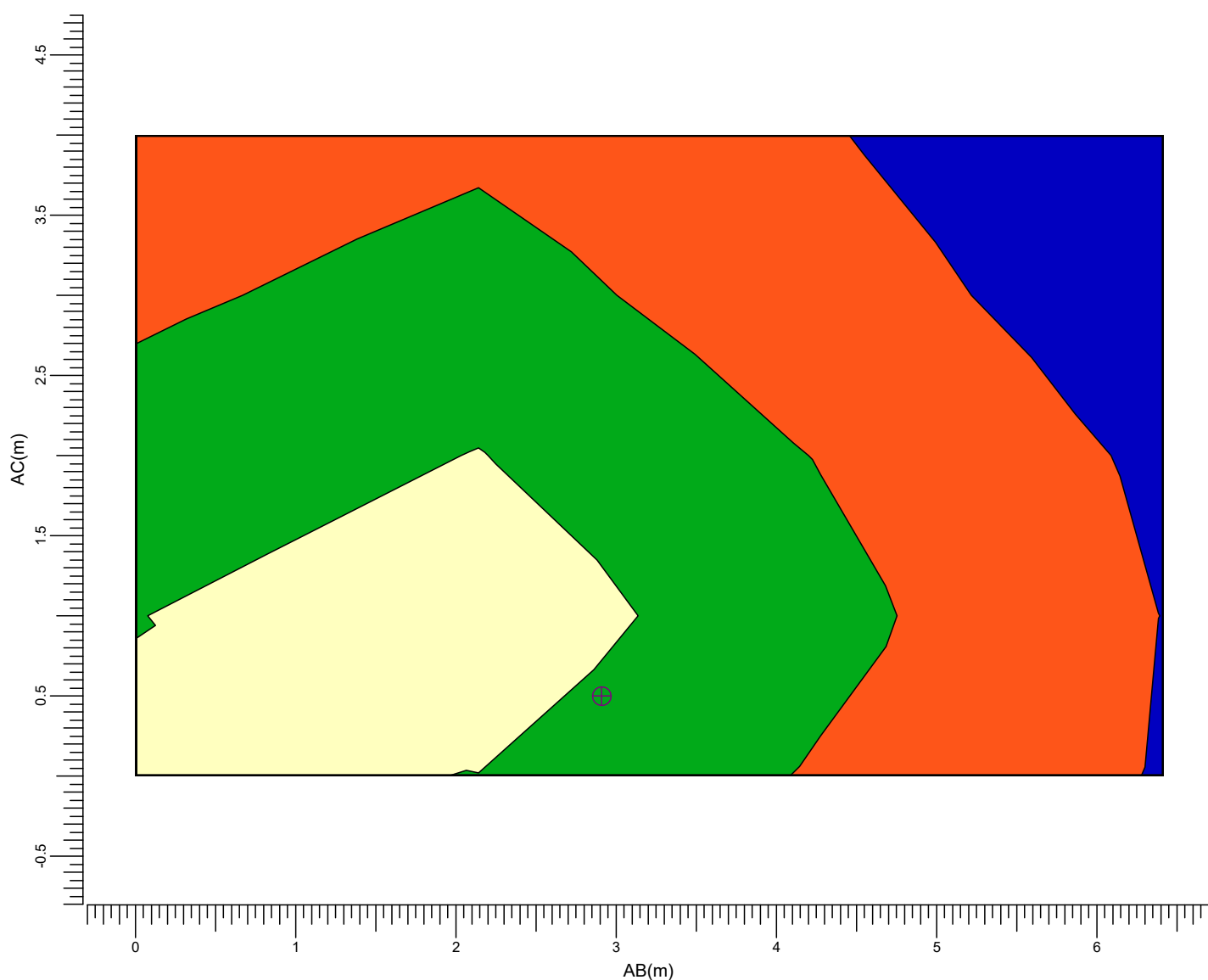
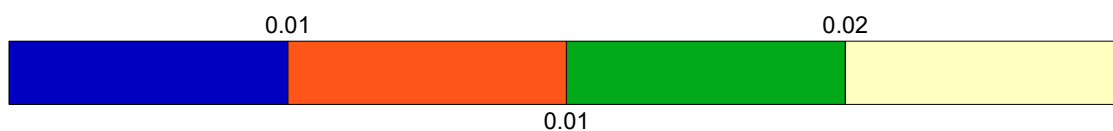
Project maintenance factor
1.00

Scale
1:40

3.20 27 Springwood Road: Filled Iso Contour

ALL ON

Grid : 27 Springwood Road
Calculation : Surface Illuminance (lux)



(-10.80, -160.30, 5.00) C-----D (-16.90, -158.30, 5.00)
| |
(-10.80, -160.30, 1.00) A-----B (-16.90, -158.30, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.02

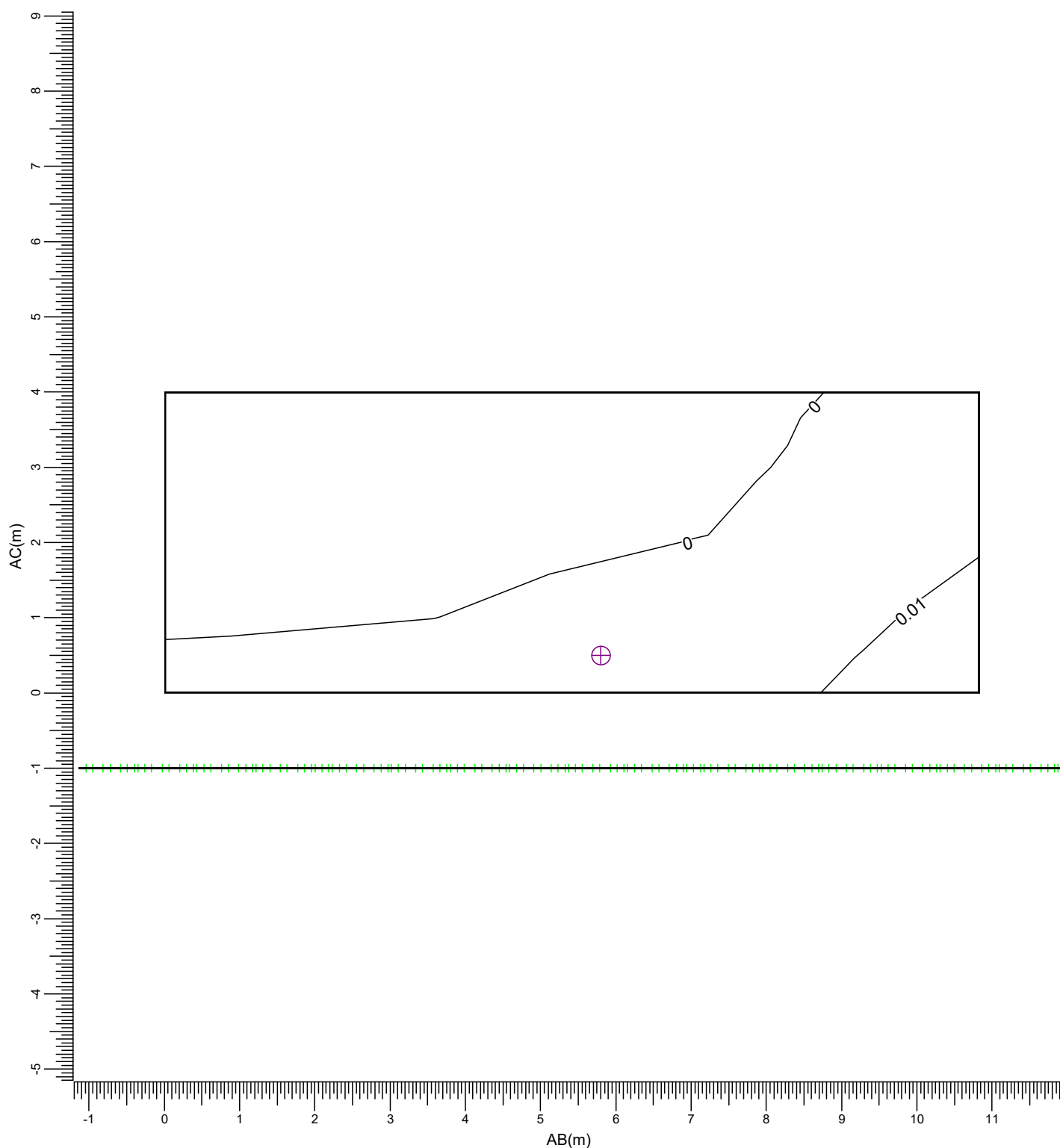
Project maintenance factor
1.00

Scale
1:40

3.21 28 Springwood Road: Iso Contour

ALL ON

Grid : 28 Springwood Road
Calculation : Surface Illuminance (lux)



(30.00, -170.70, 5.00)	C-----D (19.30, -169.00, 5.00)
(30.00, -170.70, 1.00)	A-----B (19.30, -169.00, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.01

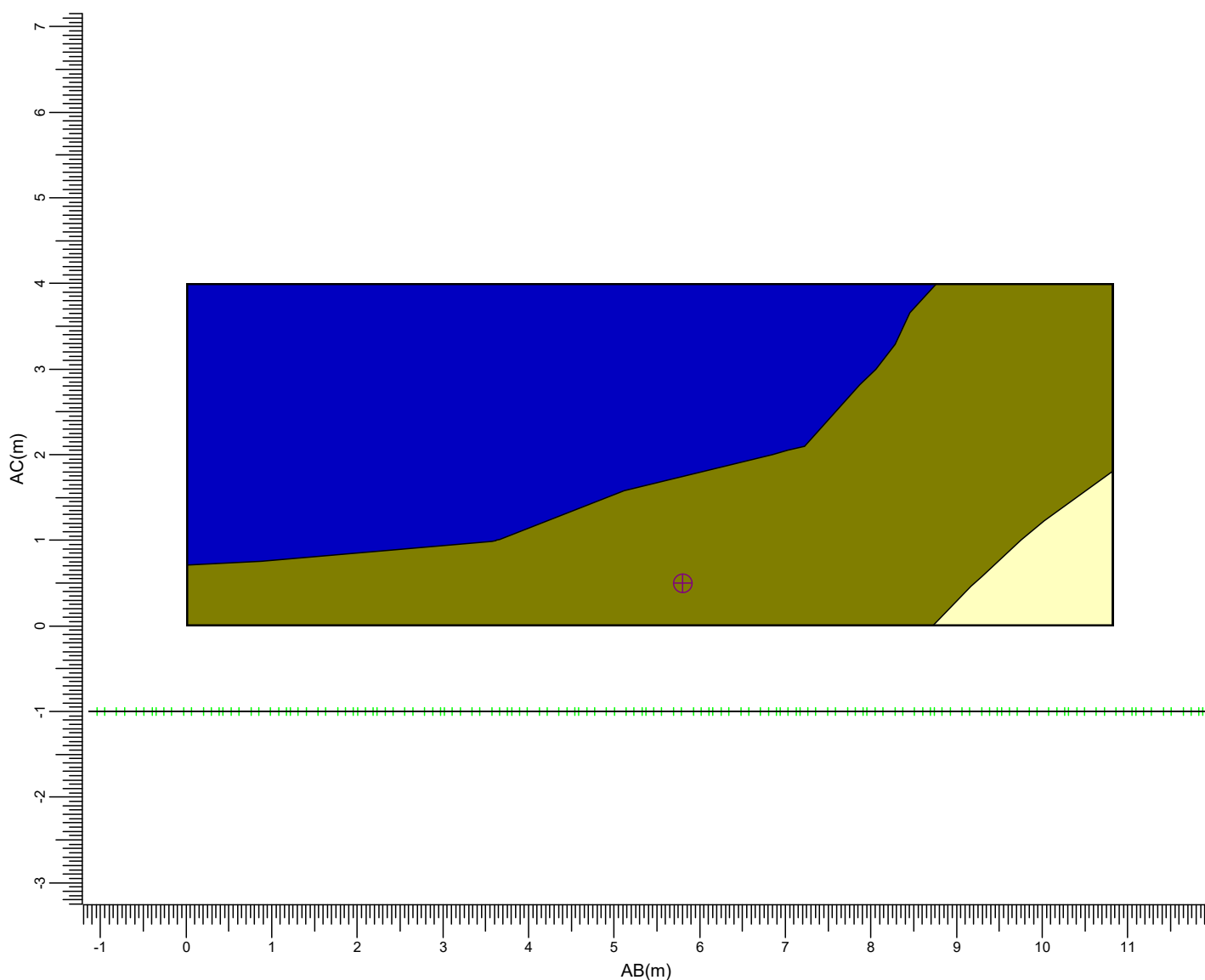
Project maintenance factor
1.00

Scale
1:75

3.22 28 Springwood Road: Filled Iso Contour

ALL ON

Grid : 28 Springwood Road
Calculation : Surface Illuminance (lux)



(30.00, -170.70, 5.00) C-----D (19.30, -169.00, 5.00)
| |
(30.00, -170.70, 1.00) A-----B (19.30, -169.00, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.01

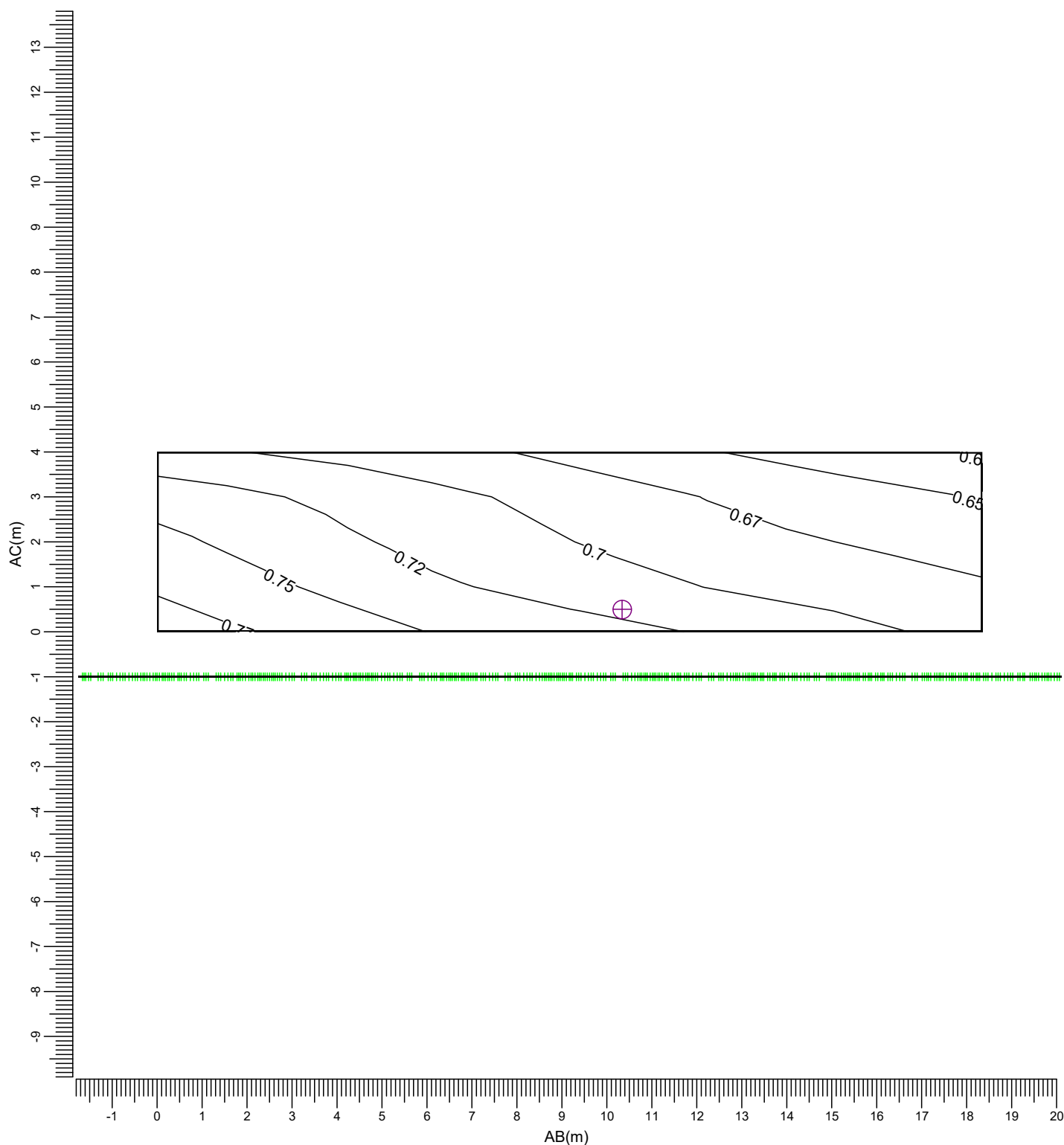
Project maintenance factor
1.00

Scale
1:75

3.23 44 Springwood Road: Iso Contour

ALL ON

Grid : 44 Springwood Road
Calculation : Surface Illuminance (lux)



(112.80, -45.60, 5.00) C-----D (105.00, -62.20, 5.00)
| |
(112.80, -45.60, 1.00) A-----B (105.00, -62.20, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.79

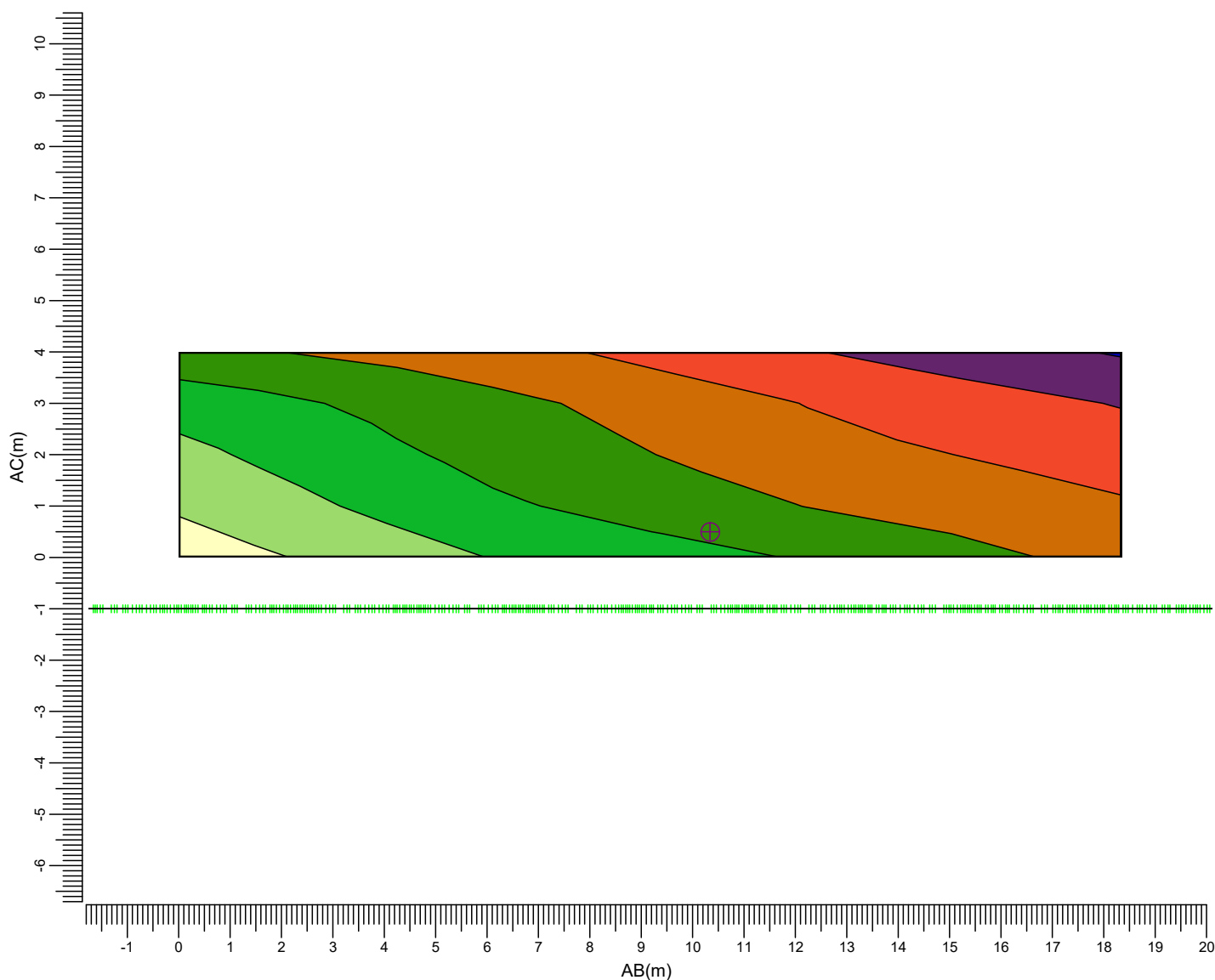
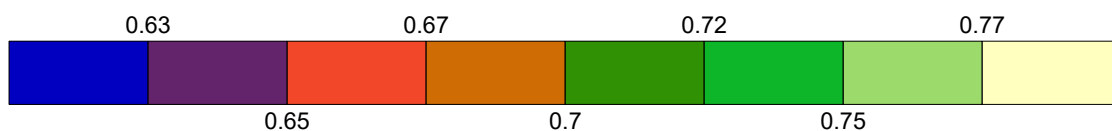
Project maintenance factor
1.00

Scale
1:125

3.24 44 Springwood Road: Filled Iso Contour

ALL ON

Grid : 44 Springwood Road
Calculation : Surface Illuminance (lux)



(112.80, -45.60, 5.00) C-----D (105.00, -62.20, 5.00)
| |
(112.80, -45.60, 1.00) A-----B (105.00, -62.20, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.79

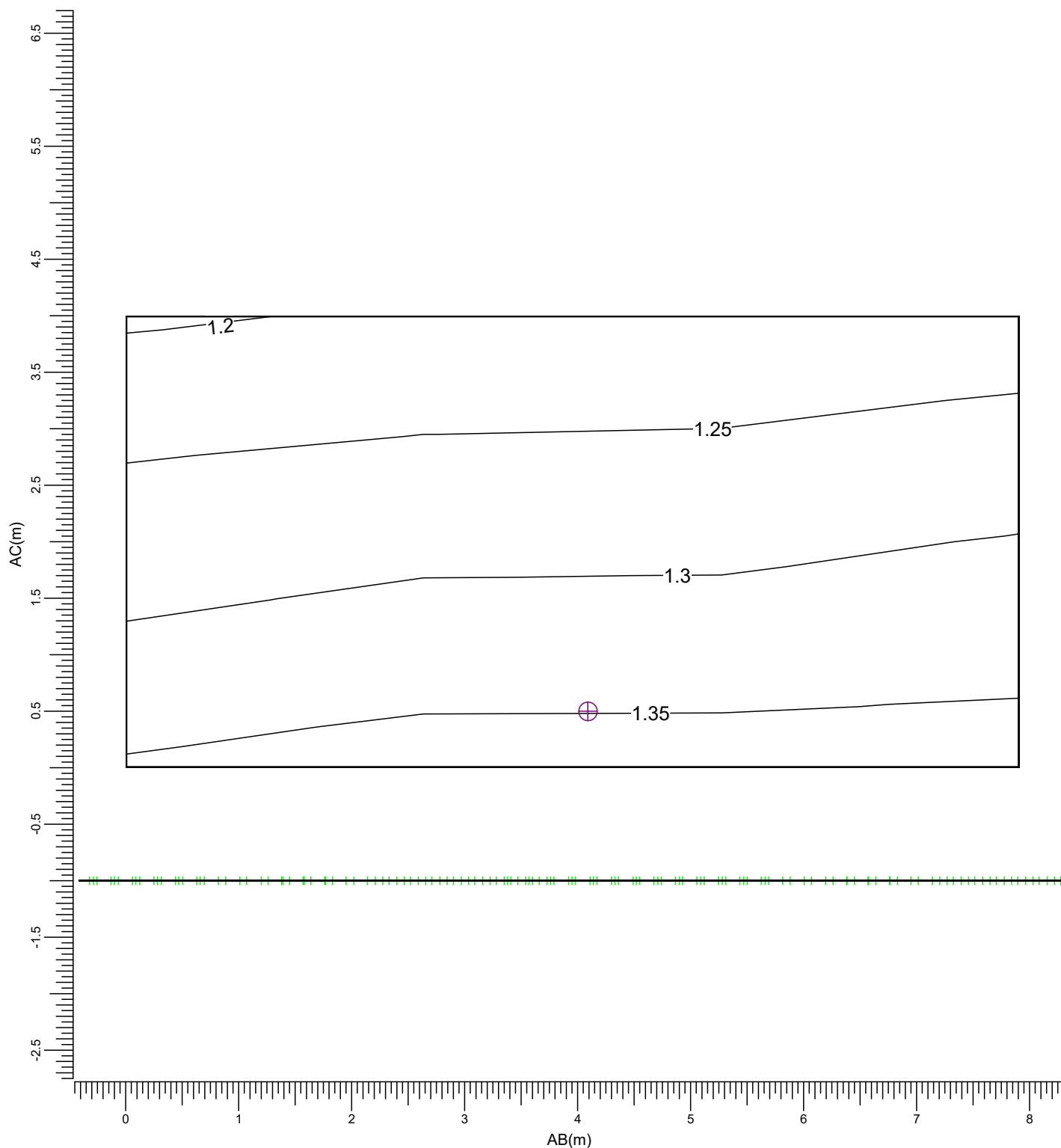
Project maintenance factor
1.00

Scale
1:125

3.25 46 Springwood Road: Iso Contour

ALL ON

Grid : 46 Springwood Road
Calculation : Surface Illuminance (lux)



(89.00,	20.40,	5.00)	C----	D (89.30,	12.50,	5.00)
(89.00,	20.40,	1.00)	A----	B (89.30,	12.50,	1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
1.38

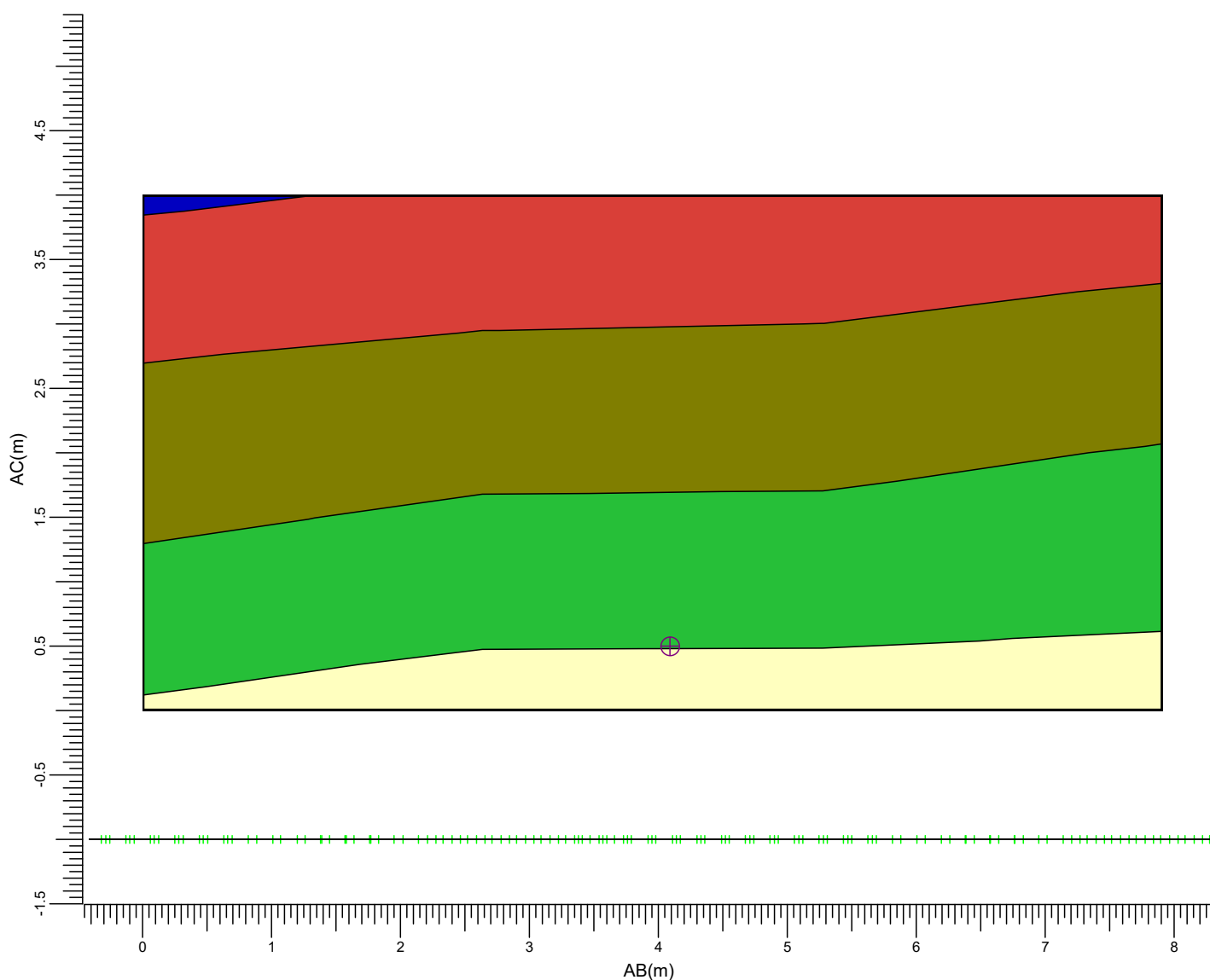
Project maintenance factor
1.00

Scale
1:50

3.26 46 Springwood Road: Filled Iso Contour

ALL ON

Grid : 46 Springwood Road
Calculation : Surface Illuminance (lux)



(89.00,	20.40,	5.00)	C-----D	(89.30,	12.50,	5.00)
(89.00,	20.40,	1.00)	A-----B	(89.30,	12.50,	1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
1.38

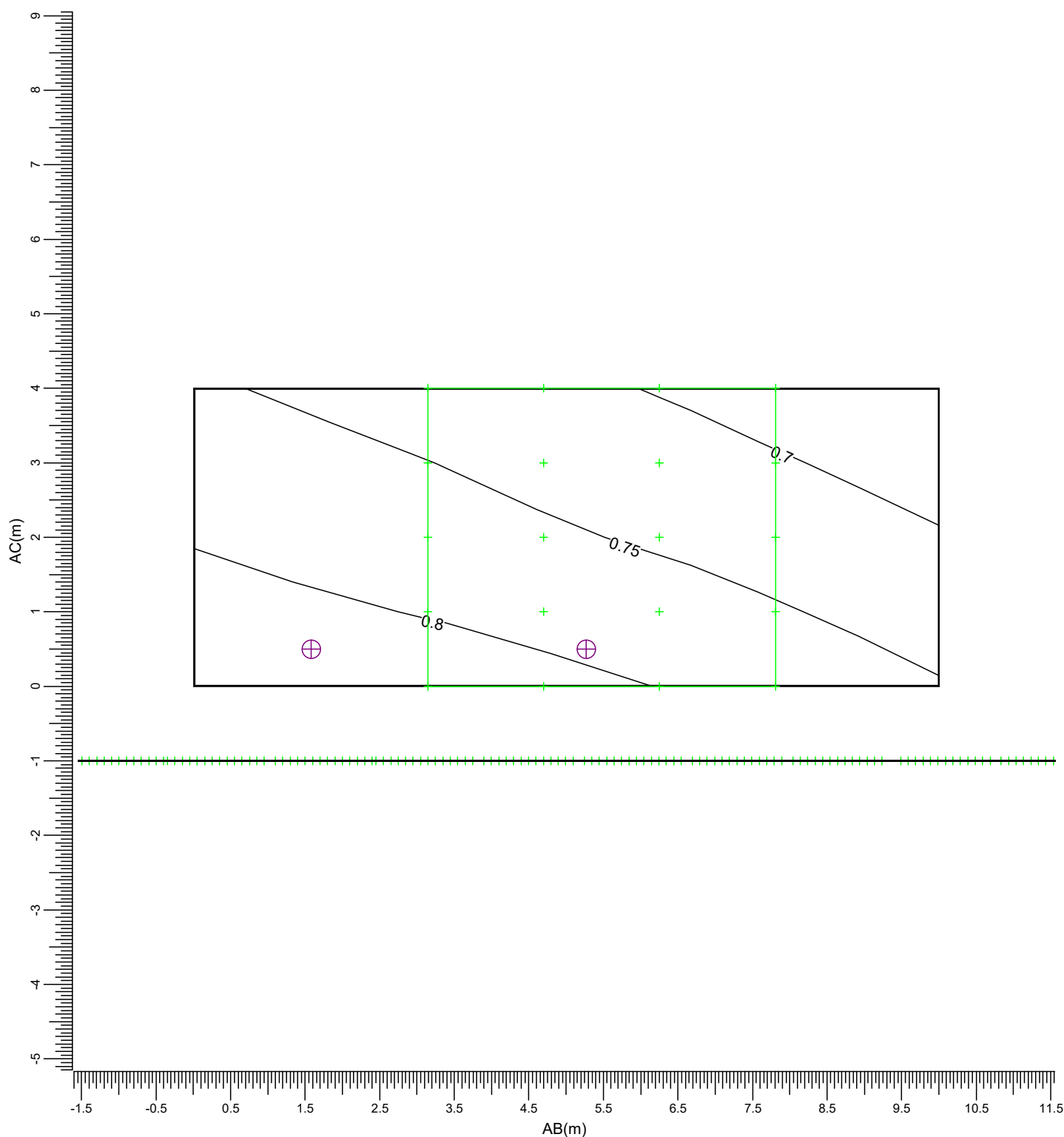
Project maintenance factor
1.00

Scale
1:50

3.27 48 Springwood Road: Iso Contour

ALL ON

Grid : 48 Springwood Road
Calculation : Surface Illuminance (lux)



(92.90,	31.80,	5.00)	C-----D (101.20,	26.20,	5.00)
(92.90,	31.80,	1.00)	A-----B (101.20,	26.20,	1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.85

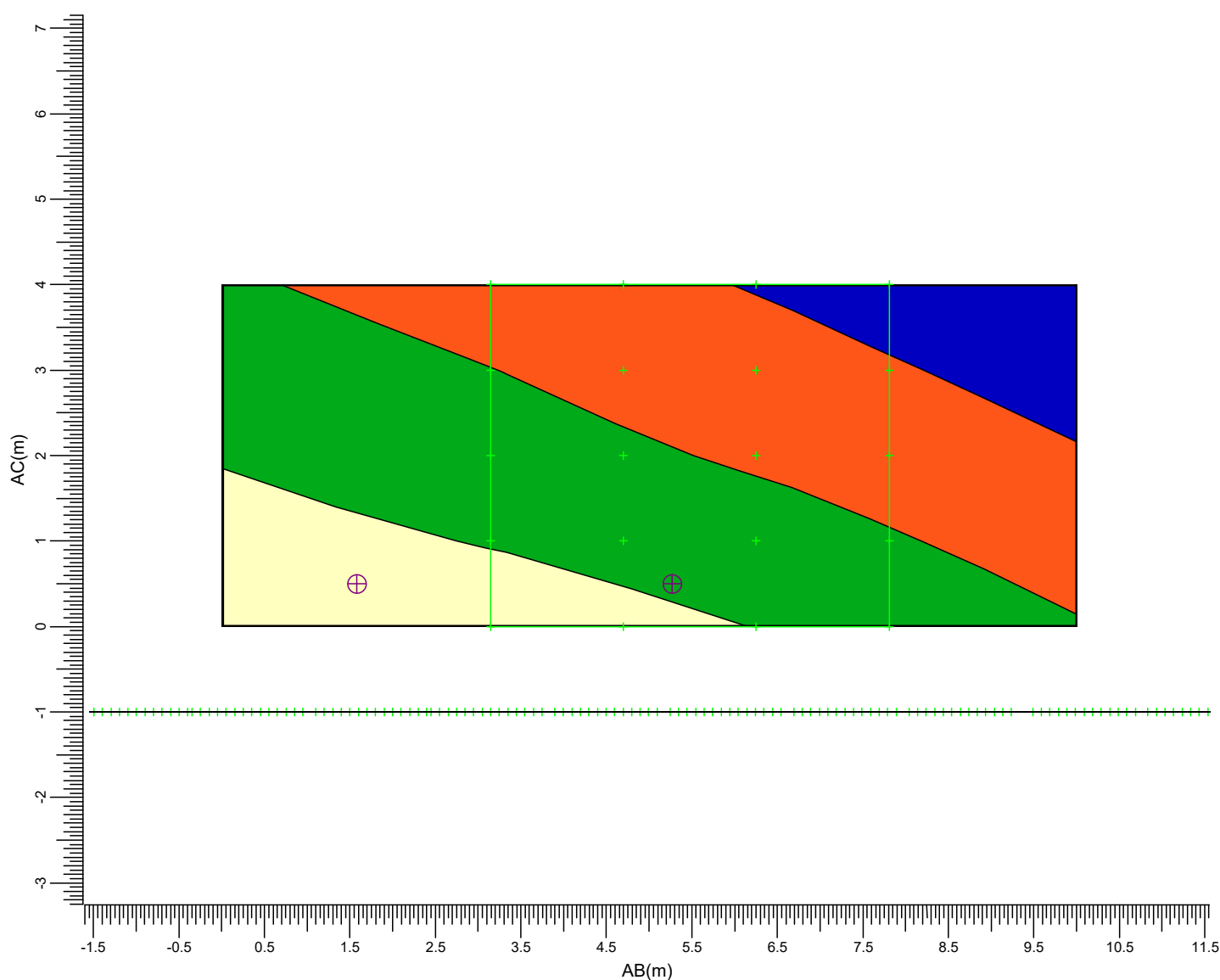
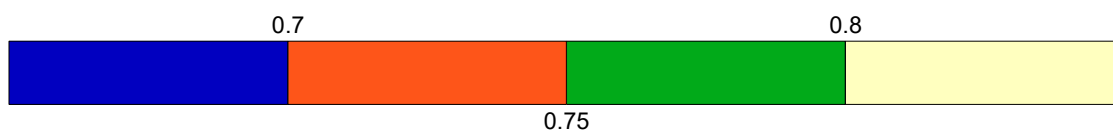
Project maintenance factor
1.00

Scale
1:75

3.28 48 Springwood Road: Filled Iso Contour

ALL ON

Grid : 48 Springwood Road
Calculation : Surface Illuminance (lux)



(92.90, 31.80, 5.00) C-----D (101.20, 26.20, 5.00)
| |
(92.90, 31.80, 1.00) A-----B (101.20, 26.20, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.85

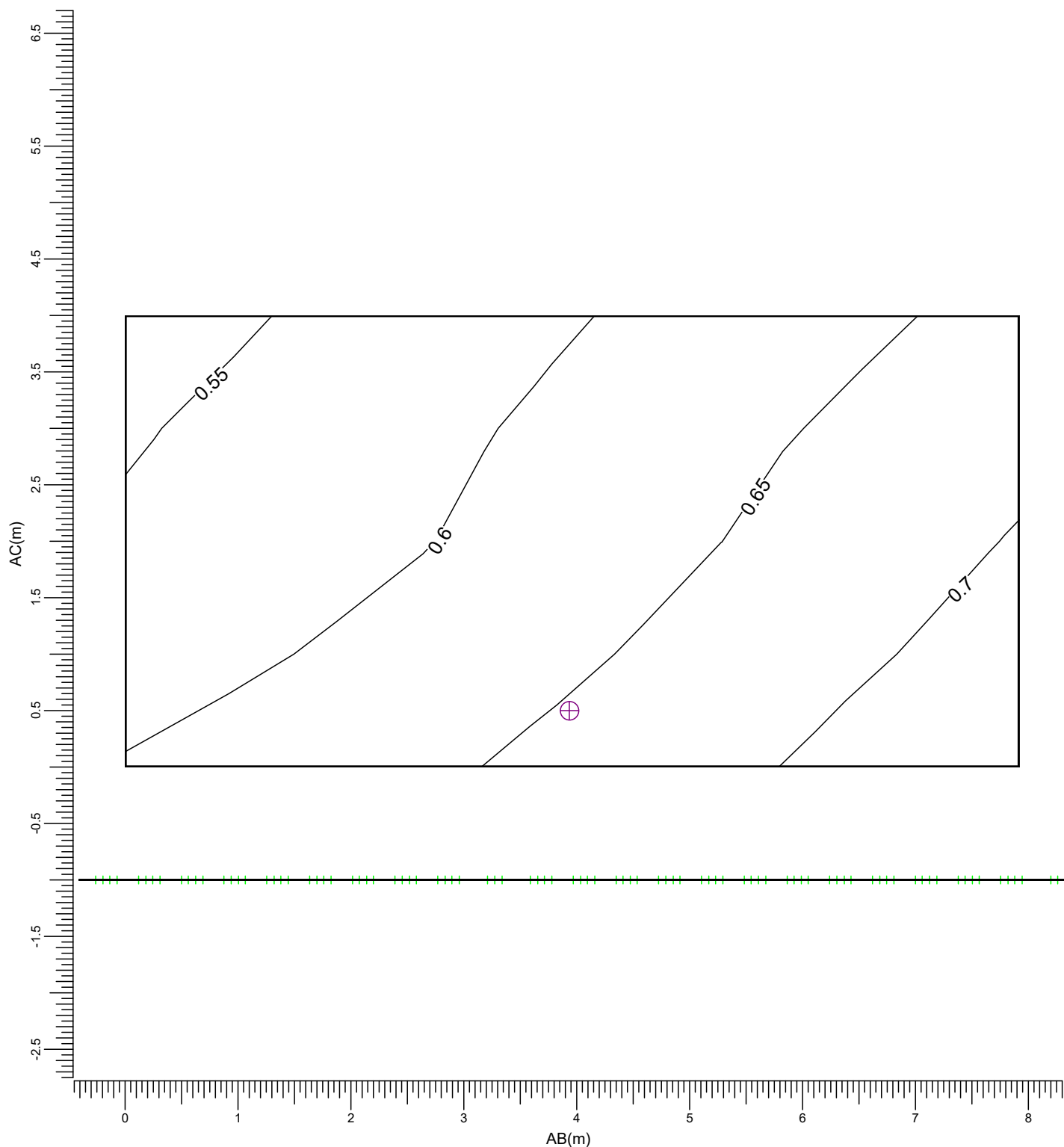
Project maintenance factor
1.00

Scale
1:75

3.29 50 Springwood Road: Iso Contour

ALL ON

Grid : 50 Springwood Road
Calculation : Surface Illuminance (lux)



(85.40,	71.80,	5.00)	C-----D	(84.80,	63.90,	5.00)
(85.40,	71.80,	1.00)	A-----B	(84.80,	63.90,	1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.75

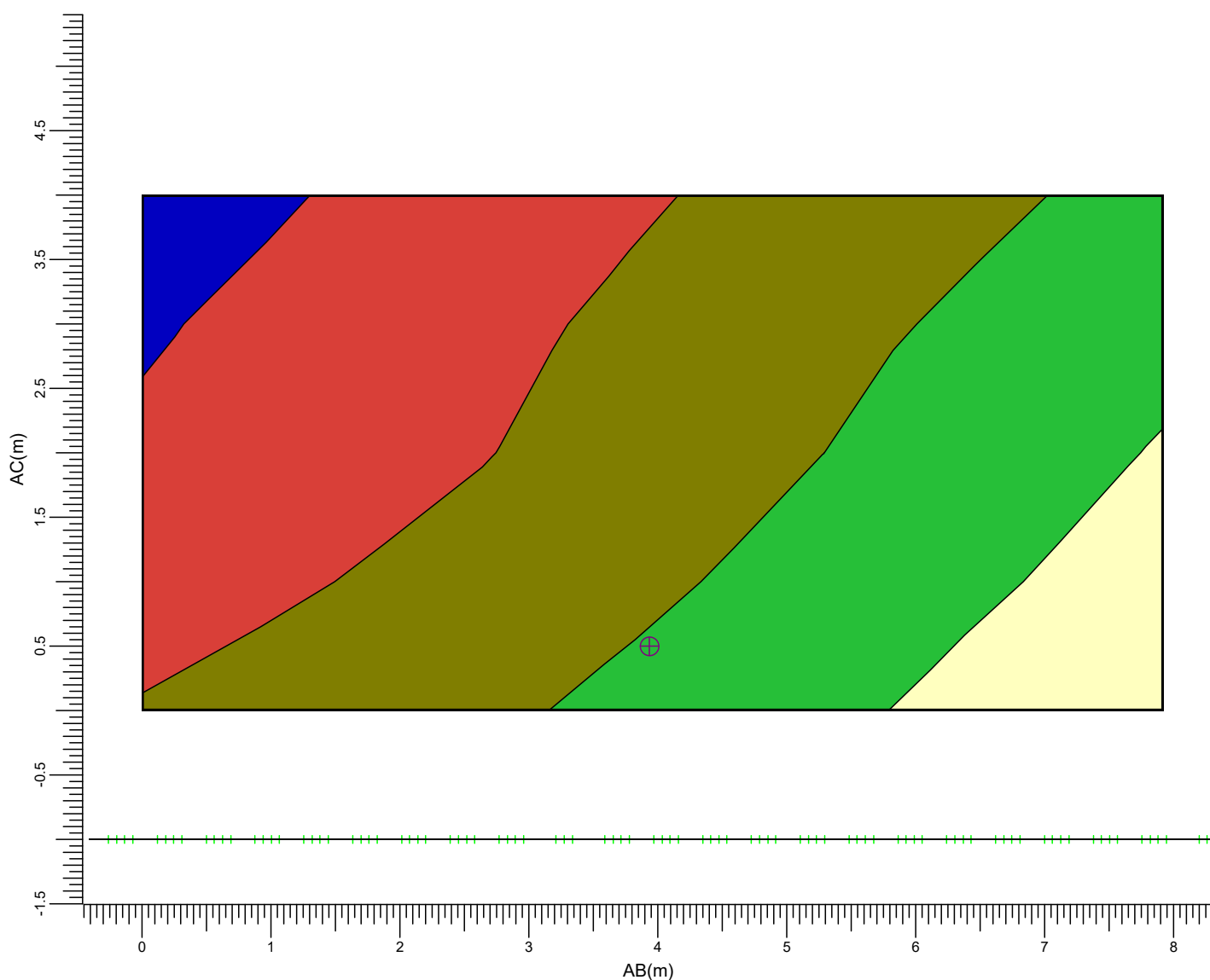
Project maintenance factor
1.00

Scale
1:50

3.30 50 Springwood Road: Filled Iso Contour

ALL ON

Grid : 50 Springwood Road
Calculation : Surface Illuminance (lux)



(85.40, 71.80, 5.00) C-----D (84.80, 63.90, 5.00)
 (85.40, 71.80, 1.00) A-----B (84.80, 63.90, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.75

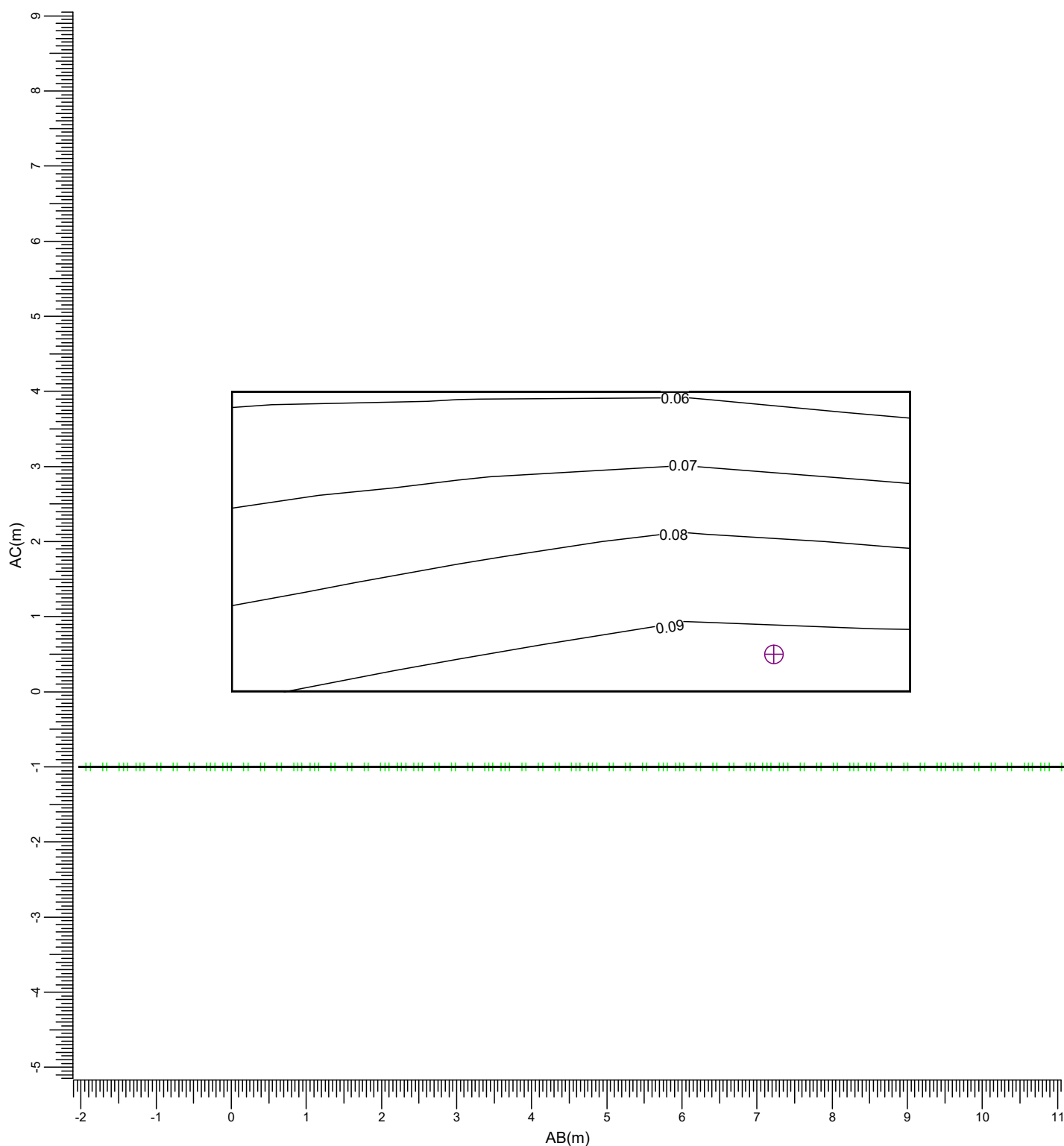
Project maintenance factor
1.00

Scale
1:50

3.31 17 The Bridges: Iso Contour

ALL ON

Grid : 17 The Bridges
Calculation : Surface Illuminance (lux)



(-68.60, 120.40, 5.00) C-----D (-59.80, 118.30, 5.00)
| |
(-68.60, 120.40, 1.00) A-----B (-59.80, 118.30, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.10

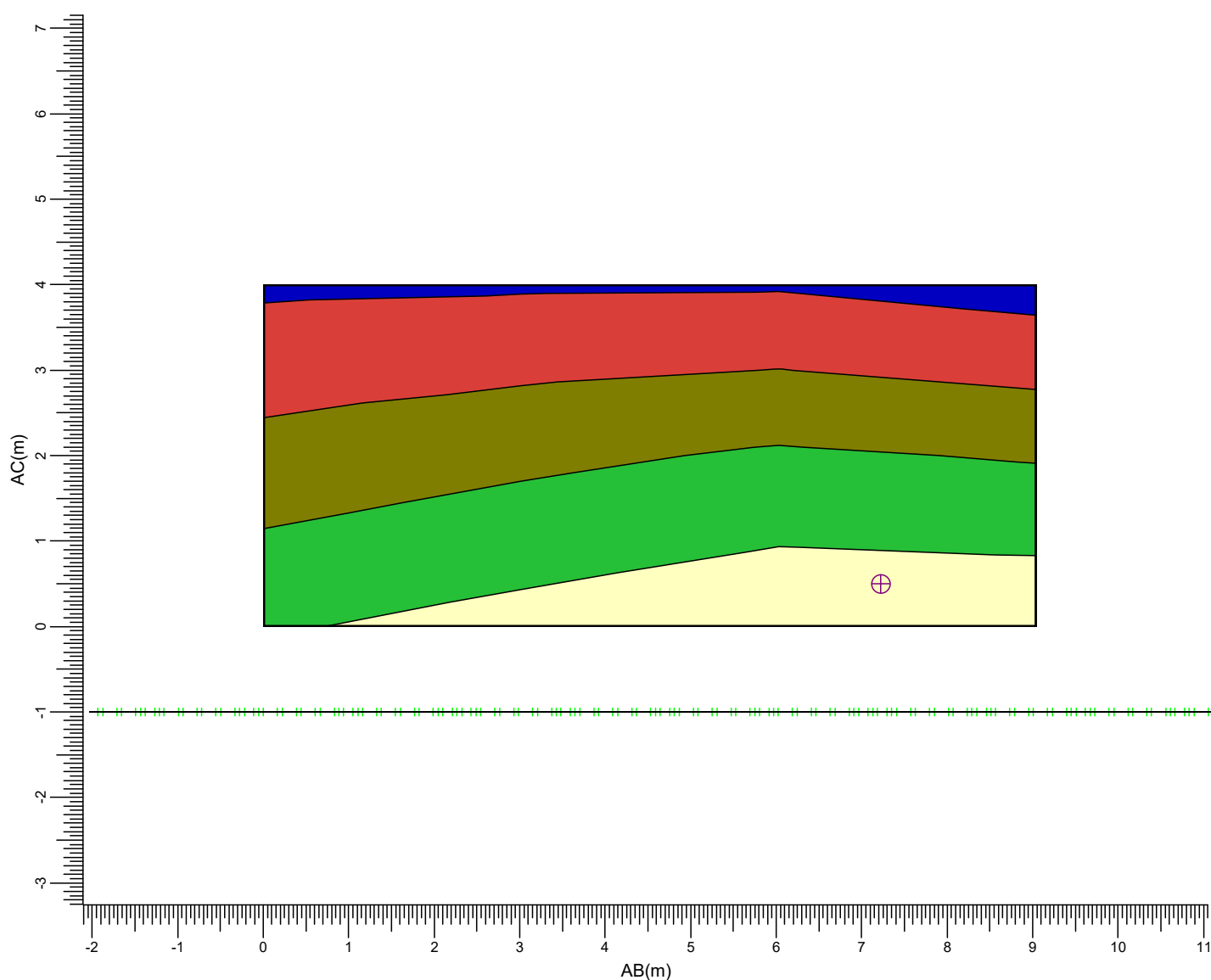
Project maintenance factor
1.00

Scale
1:75

3.32 17 The Bridges: Filled Iso Contour

ALL ON

Grid : 17 The Bridges
Calculation : Surface Illuminance (lux)



(-68.60, 120.40, 5.00) C-----D (-59.80, 118.30, 5.00)
| |
(-68.60, 120.40, 1.00) A-----B (-59.80, 118.30, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.10

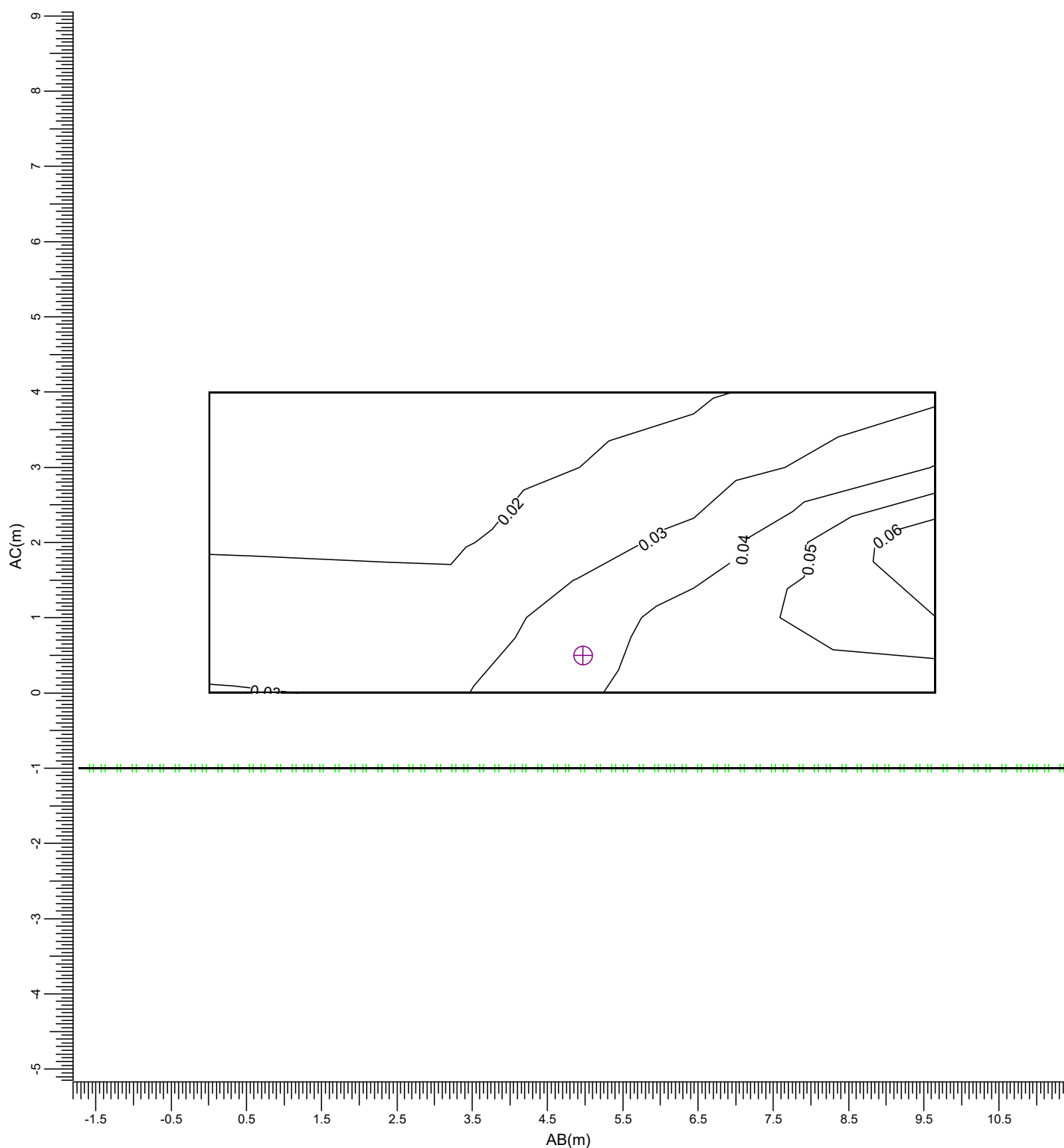
Project maintenance factor
1.00

Scale
1:75

3.33 3 The Bridges: Iso Contour

ALL ON

Grid : 3 The Bridges
Calculation : Surface Illuminance (lux)



(-22.40, 121.50, 5.00)	C-----D (-13.10, 118.90, 5.00)
(-22.40, 121.50, 1.00)	A-----B (-13.10, 118.90, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.07

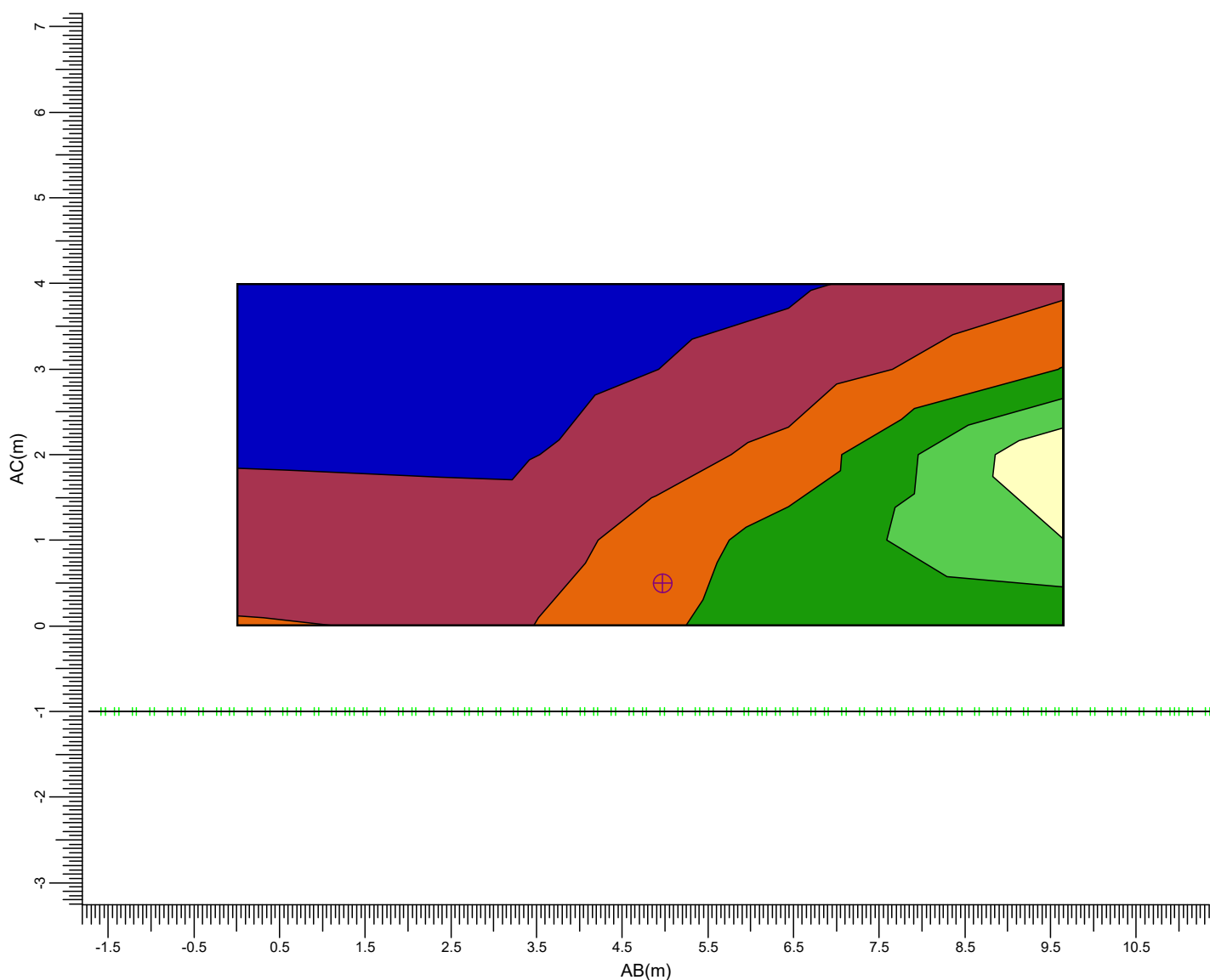
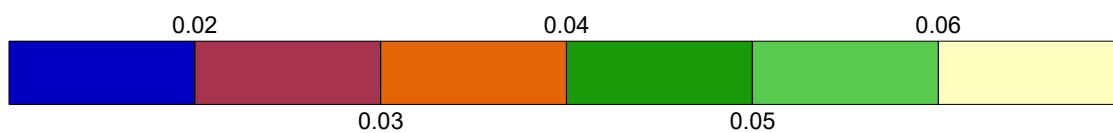
Project maintenance factor
1.00

Scale
1:75

3.34 3 The Bridges: Filled Iso Contour

ALL ON

Grid : 3 The Bridges
Calculation : Surface Illuminance (lux)



(-22.40, 121.50, 5.00) C-----D (-13.10, 118.90, 5.00)
| |
(-22.40, 121.50, 1.00) A-----B (-13.10, 118.90, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.07

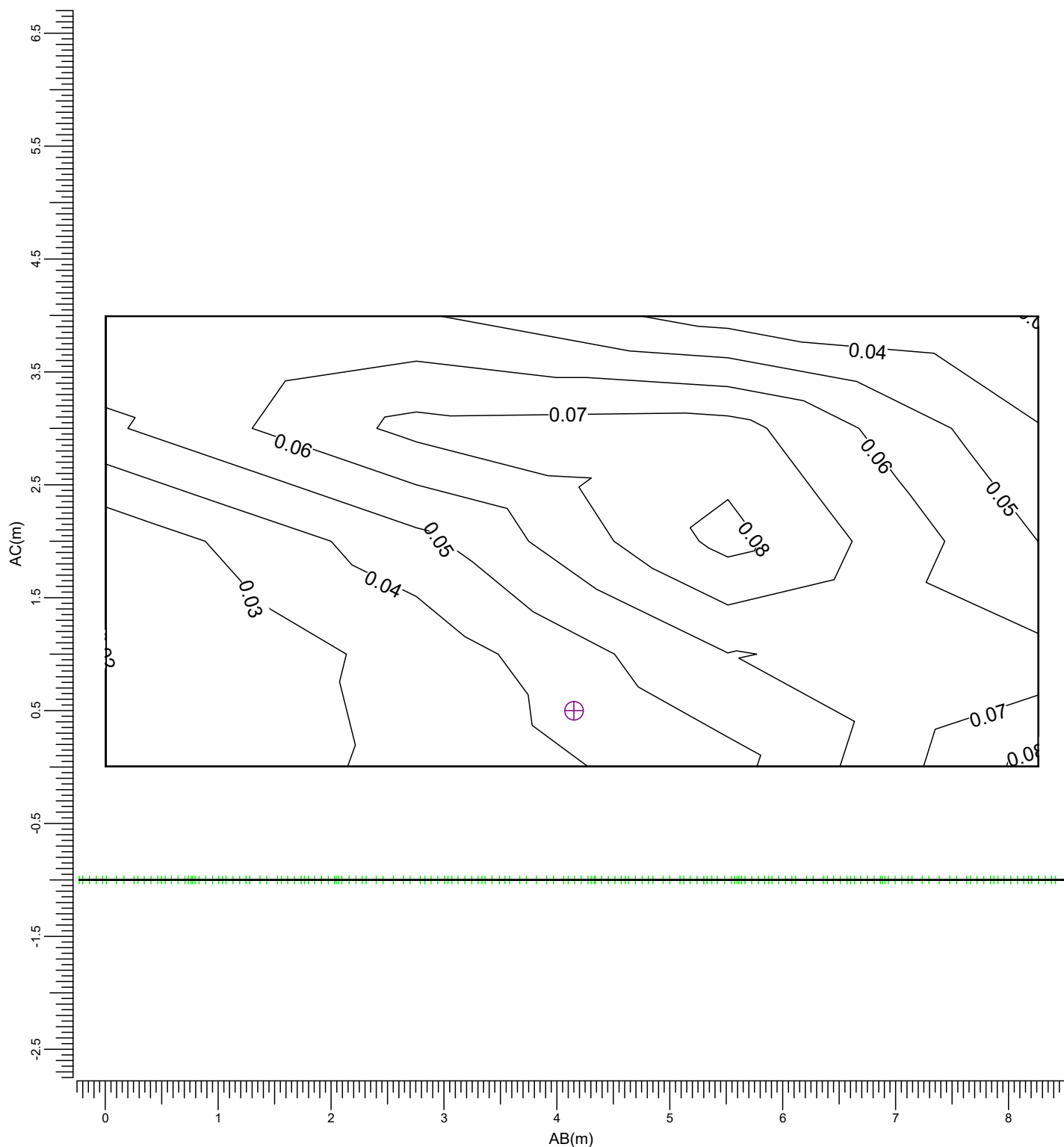
Project maintenance factor
1.00

Scale
1:75

3.35 8 The Bridges: Iso Contour

ALL ON

Grid : 8 The Bridges
Calculation : Surface Illuminance (lux)



(11.50,	113.50,	5.00)	C-----D (19.50,	111.40,	5.00)
(11.50,	113.50,	1.00)	A-----B (19.50,	111.40,	1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.08

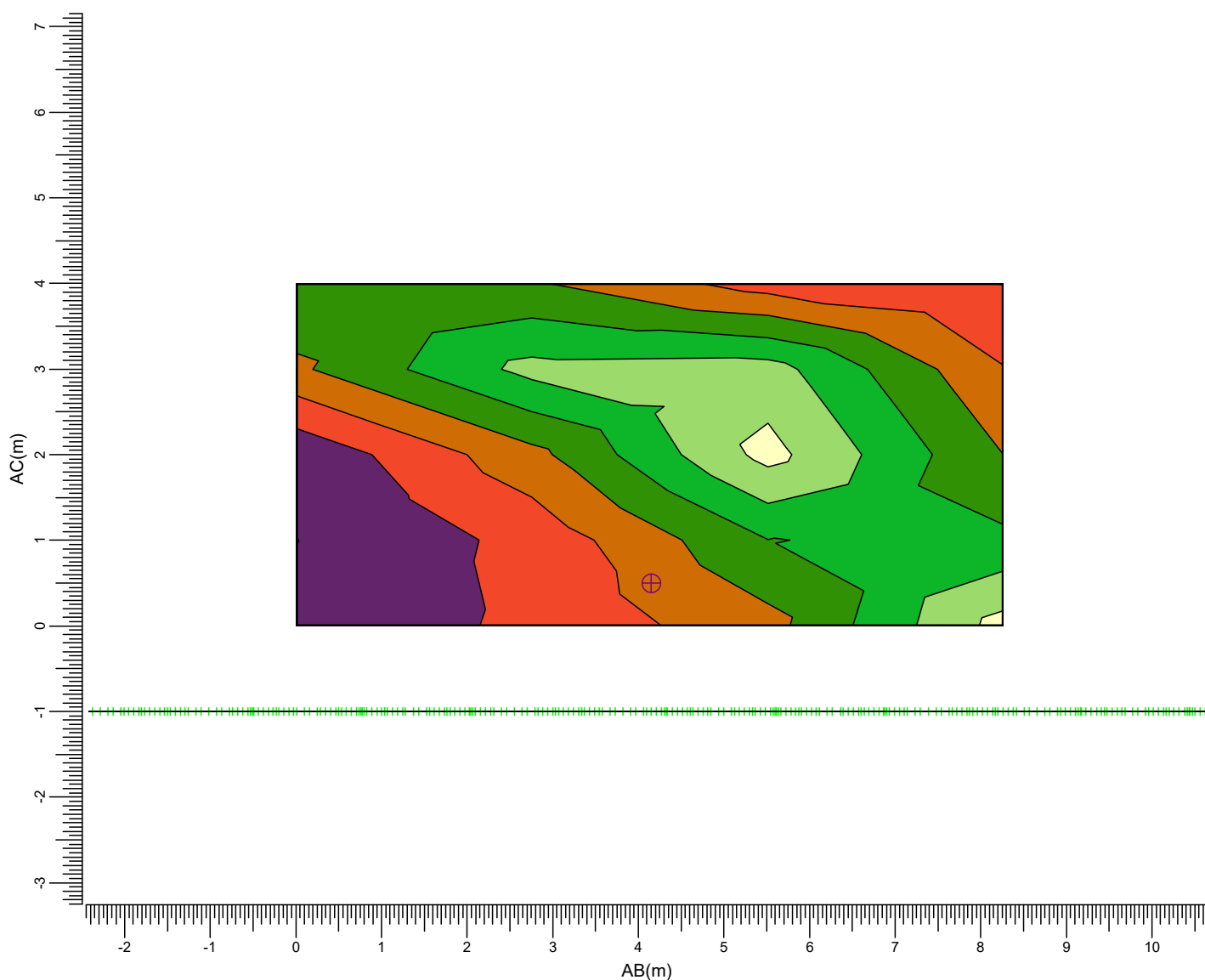
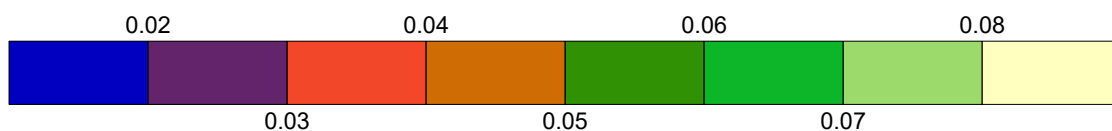
Project maintenance factor
1.00

Scale
1:50

3.36 8 The Bridges: Filled Iso Contour

ALL ON

Grid : 8 The Bridges
Calculation : Surface Illuminance (lux)



(11.50,	113.50,	5.00)	C-----D (19.50,	111.40,	5.00)
(11.50,	113.50,	1.00)	A-----B (19.50,	111.40,	1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.08

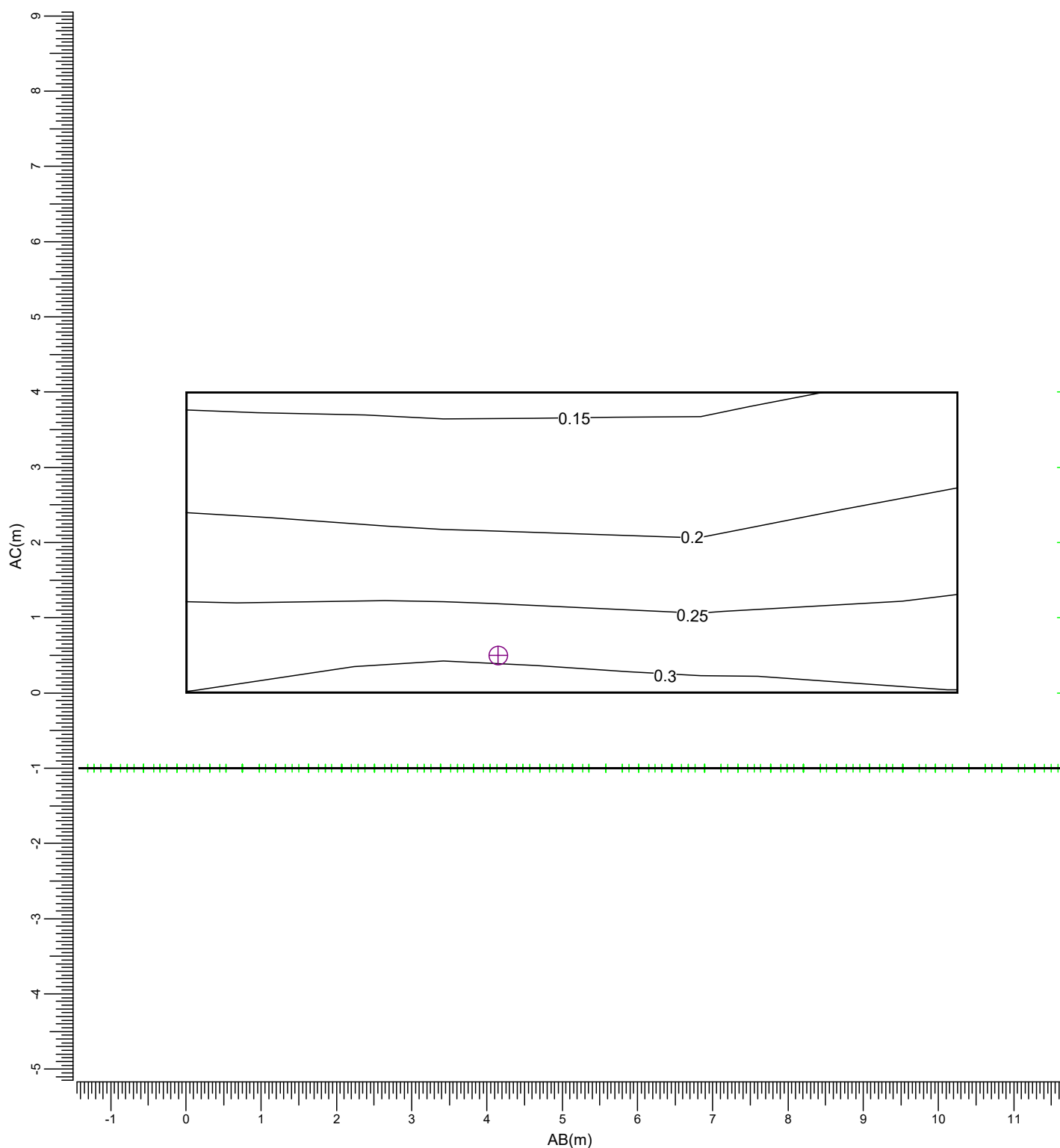
Project maintenance factor
1.00

Scale
1:75

3.37 11 The Bridges: Iso Contour

ALL ON

Grid : 11 The Bridges
Calculation : Surface Illuminance (lux)



(42.20,	102.60,	5.00)	C-----D (52.10,	99.90,	5.00)
(42.20,	102.60,	1.00)	A-----B (52.10,	99.90,	1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.33

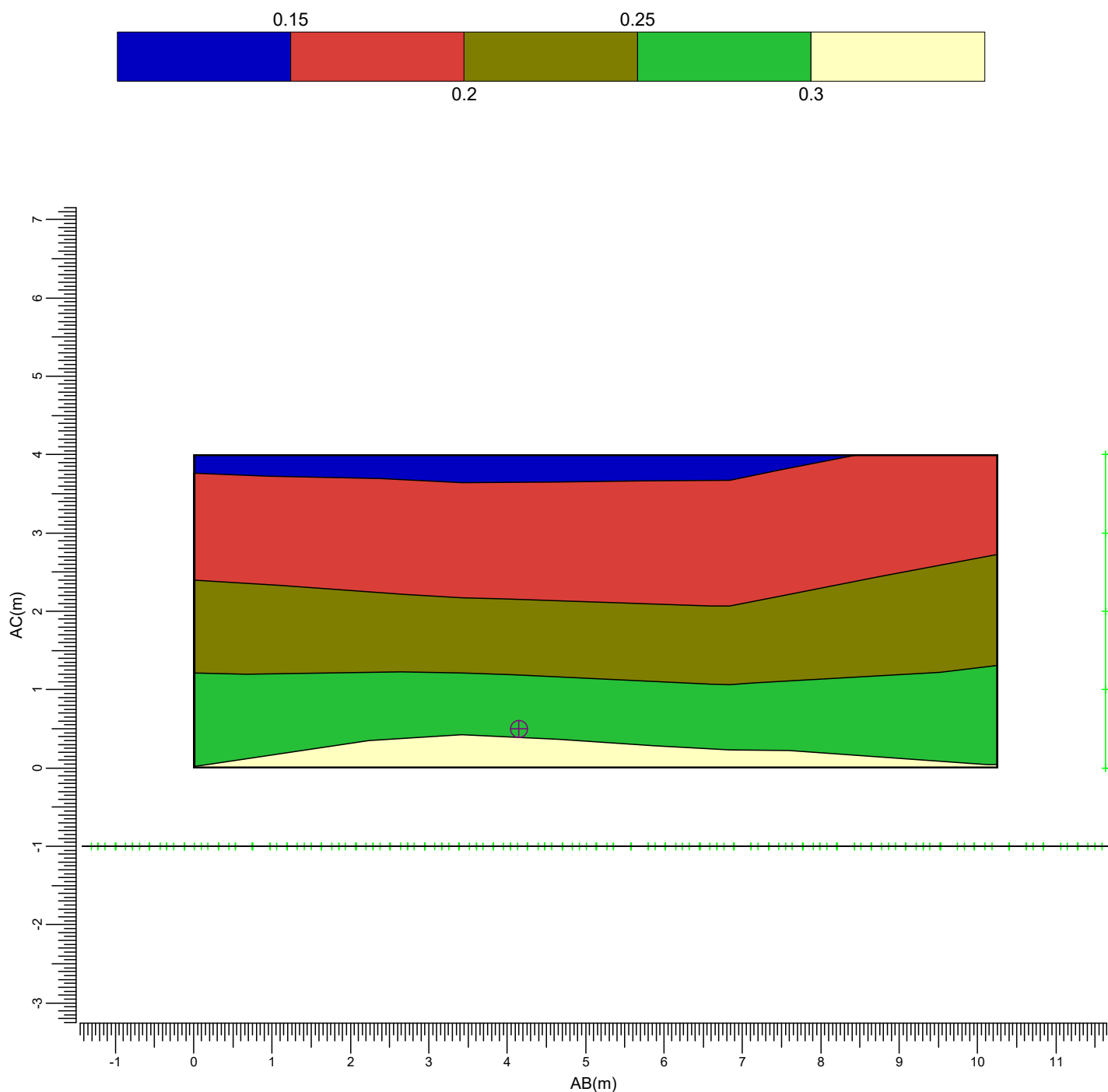
Project maintenance factor
1.00

Scale
1:75

3.38 11 The Bridges: Filled Iso Contour

ALL ON

Grid : 11 The Bridges
Calculation : Surface Illuminance (lux)



(42.20,	102.60,	5.00)	C----	D (52.10,	99.90,	5.00)
(42.20,	102.60,	1.00)	A----	B (52.10,	99.90,	1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.33

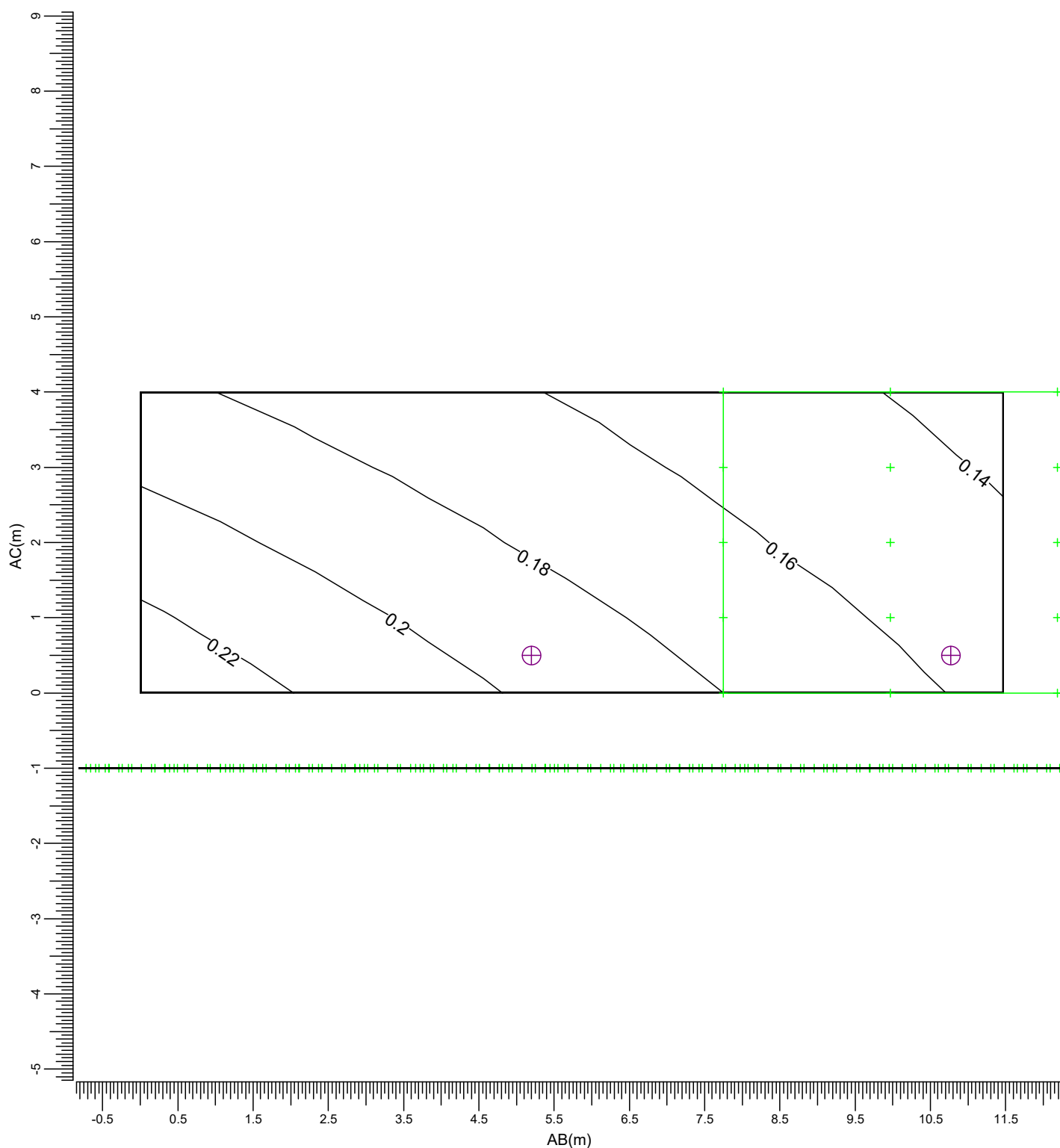
Project maintenance factor
1.00

Scale
1:75

3.39 2 Heys Road: Iso Contour

ALL ON

Grid : 2 Heys Road
Calculation : Surface Illuminance (lux)



(-100.30, 114.60, 5.00)	C-----D (-94.50, 124.50, 5.00)
(-100.30, 114.60, 1.00)	A-----B (-94.50, 124.50, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.24

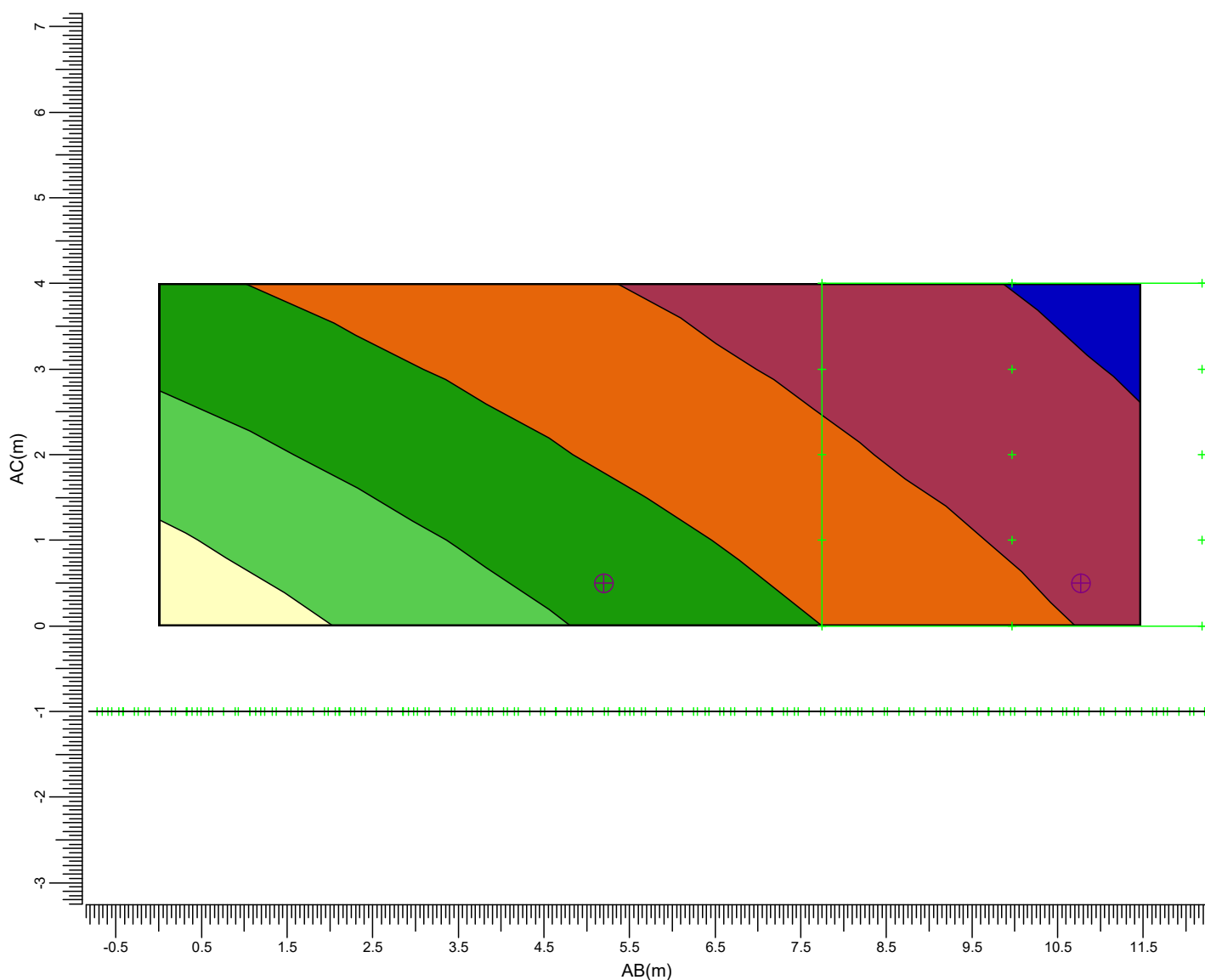
Project maintenance factor
1.00

Scale
1:75

3.40 2 Heys Road: Filled Iso Contour

ALL ON

Grid : 2 Heys Road
Calculation : Surface Illuminance (lux)



(-100.30, 114.60, 5.00) C-----D (-94.50, 124.50, 5.00)
| |
(-100.30, 114.60, 1.00) A-----B (-94.50, 124.50, 1.00)

A: BVP527 OUT T20 50K A55-NB +BL

Maximum
0.24

Project maintenance factor
1.00

Scale
1:75

4. Luminaire Details

4.1 Project Luminaires

OptiVision LED

BVP527 OUT T20 50K 1xLED2210/757 A55-NB +BL

Light output ratios

DLOR : 0.62

ULOR : 0.00

TLOR : 0.62

Ballast : N/A

Lamp flux : 220880 lm

Luminaire wattage : 1580.0 W

Measurement code : LVA1902B09

Note: Luminaire data not from database.

