

Burgess Hill FC

Existing Lighting

Date: 20-11-2024

Description: 200lux

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.

Signify

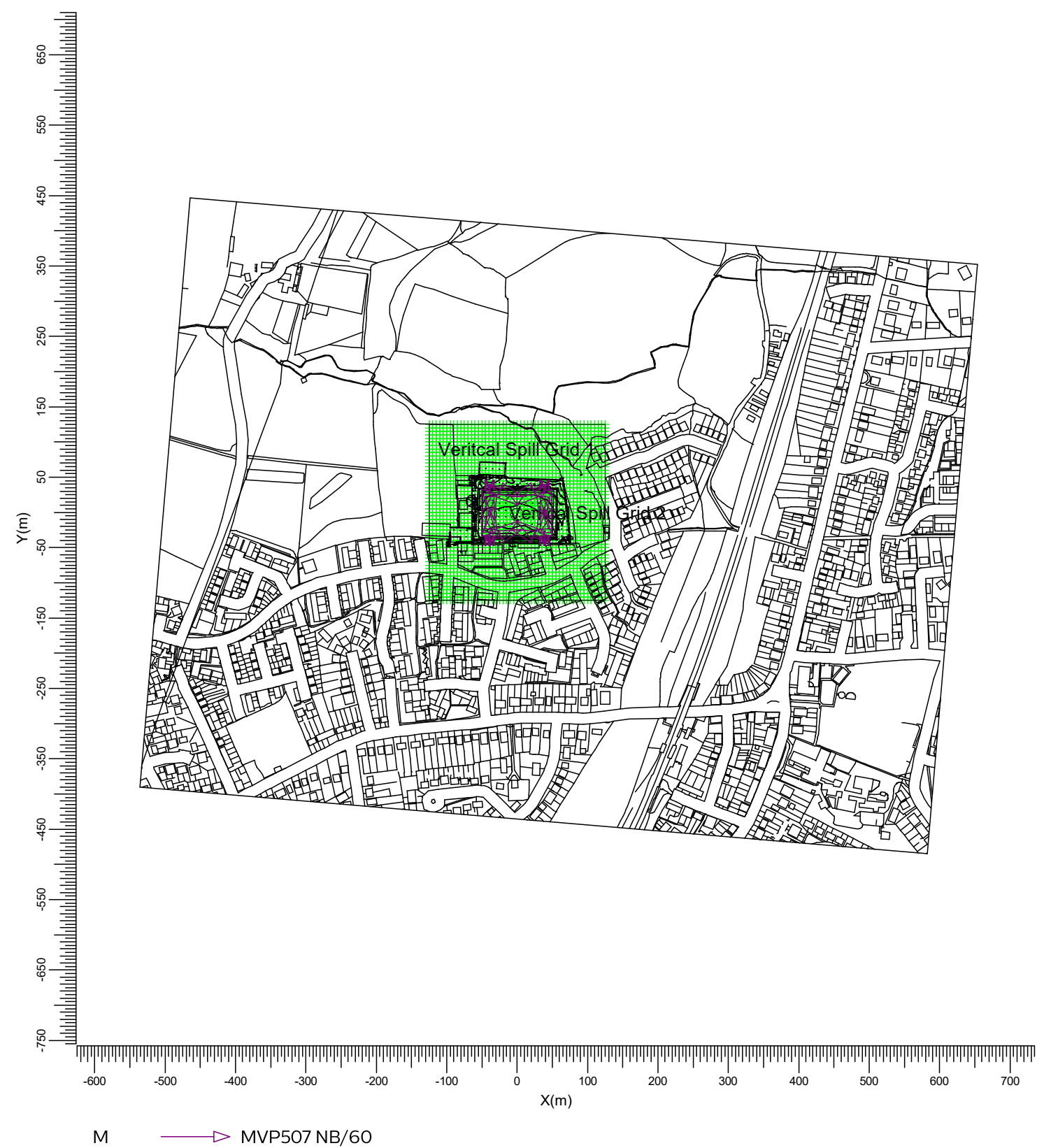
Philips Centre
Guildford Business Park
Guildford
Surrey
GU2 8XG
Mobile Phone: 0044 7810 832266
E-Mail: andrew.poplett@signify.com

Table of Contents

1.	Project Description	3
1.1	Top Project Overview	3
2.	Summary	4
2.1	Project Luminaires	4
2.2	Calculation Results	4
3.	Calculation Results	5
3.1	Football 200lux: Graphical Table	5
3.2	Spillage: Iso Contour	6
3.3	Spillage: Filled Iso Contour	7
3.4	Football GR: Graphical Table	8

1. Project Description

1.1 Top Project Overview



Scale
1:7500

2. Summary

2.1 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
M	20	MVP507 NB/60	1 * MHN-LA2000W/400V/842	2123.0	1 * 220000

The total installed power: 42.46 (kWatt)

Number of Luminaires Per Switching Mode:

Switching Mode	Luminaire Code	Power (kWatt)
	M	
200lux	20	42.46
Spillage	20	42.46

Number of Luminaires Per Arrangement:

Arrangement	Luminaire Code	Power (kWatt)
	M	
Point1	20	42.46

2.2 Calculation Results

Switching Modes:

Code	Switching Mode	Maintenance factor
1	200lux	0.90
2	Spillage	1.00

(II)luminance Calculations:

Calculation	Switching Mode	Type	Unit	Ave Min/AveMin/Max		
Football 200lux	1	Surface Illuminance	lux	274	0.61	0.45
Spillage	2	Surface Illuminance	lux	52.9	0.00	0.00

Glare Rating for Grid of Observers:

Calculation	Switching Mode	Observer Grid	Reference Grid	Reflectance	GR-Max
Football GR	1	Football	Football	0.25	47.6

Obtrusive Light Calculations:

Switching Mode	ULR
1	0.00
2	0.00

3. Calculation Results

3.1 Football 200lux: Graphical Table

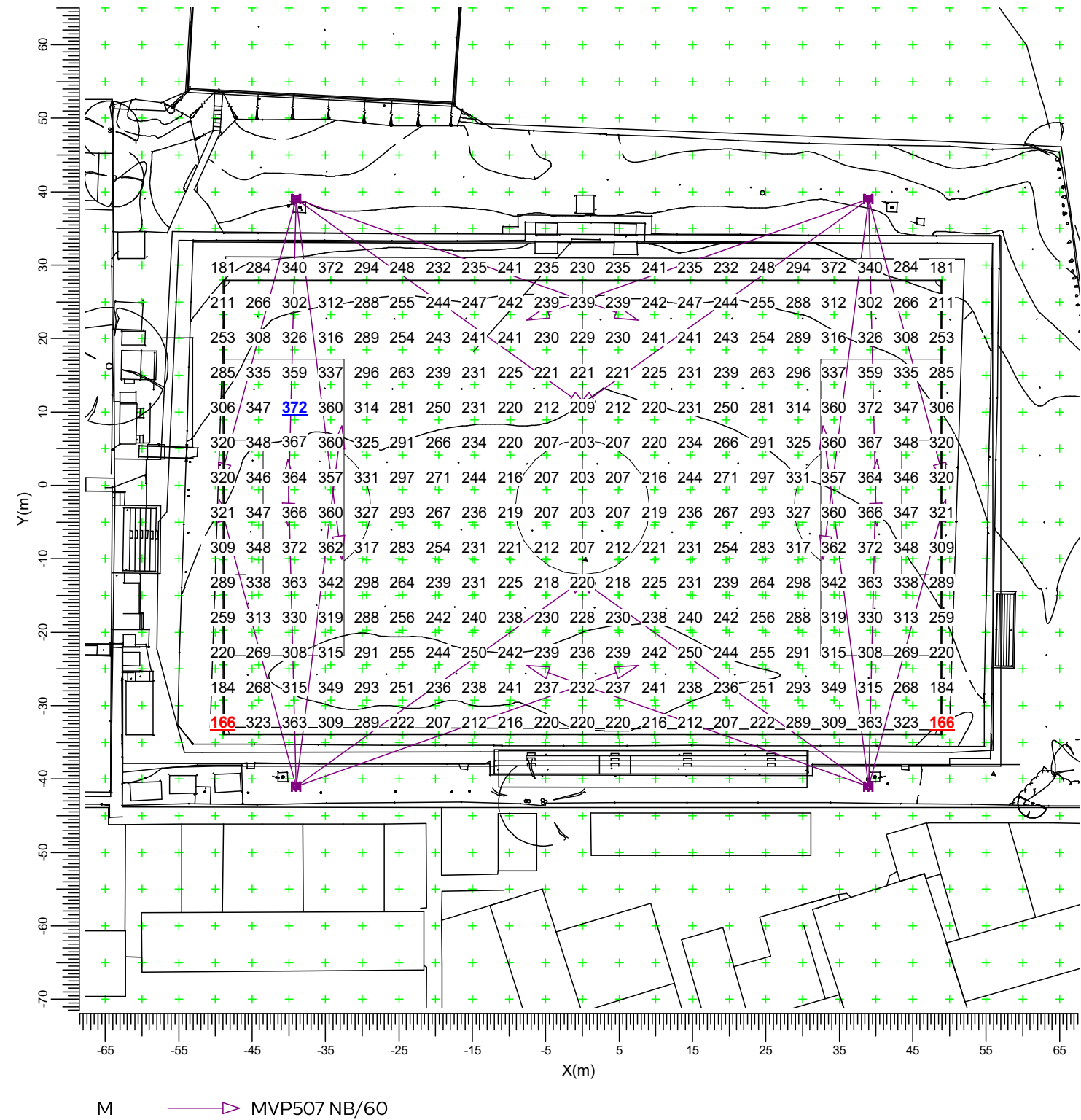
200lux

Grid

Calculation

: Football at Z = -0.00 m

: Surface Illuminance (lux)



Average
274

Min/Ave
0.61

Min/Max
0.45

Project maintenance factor
0.90

Scale
1:750

3.2 Spillage: Iso Contour

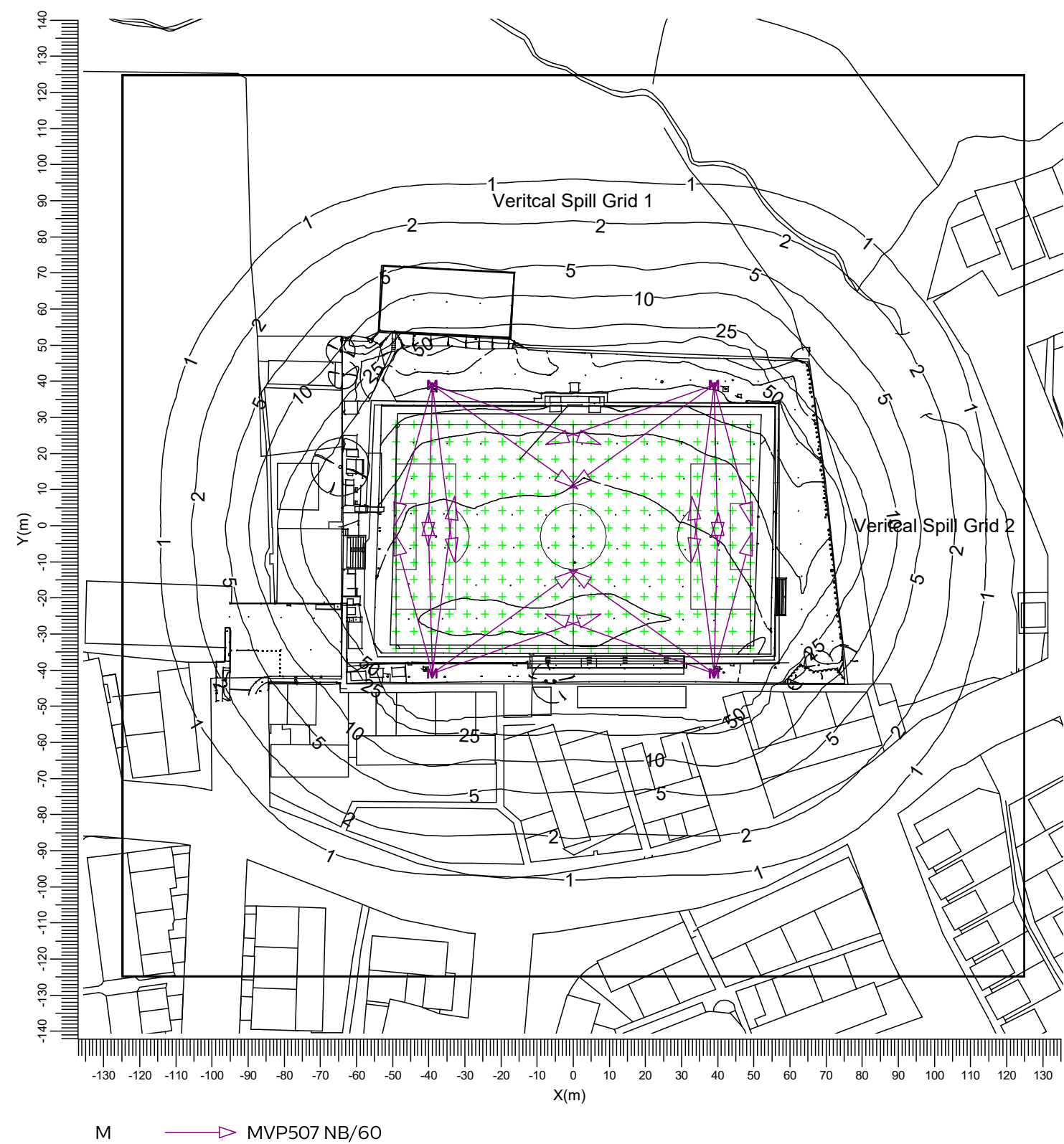
Spillage

Grid

Calculation

: Spillage at Z = -0.00 m

: Surface Illuminance (lux)



Average	Min/Ave	Min/Max	Project maintenance factor	Scale
52.9	0.00	0.00	1.00	1:1500

3.3 Spillage: Filled Iso Contour

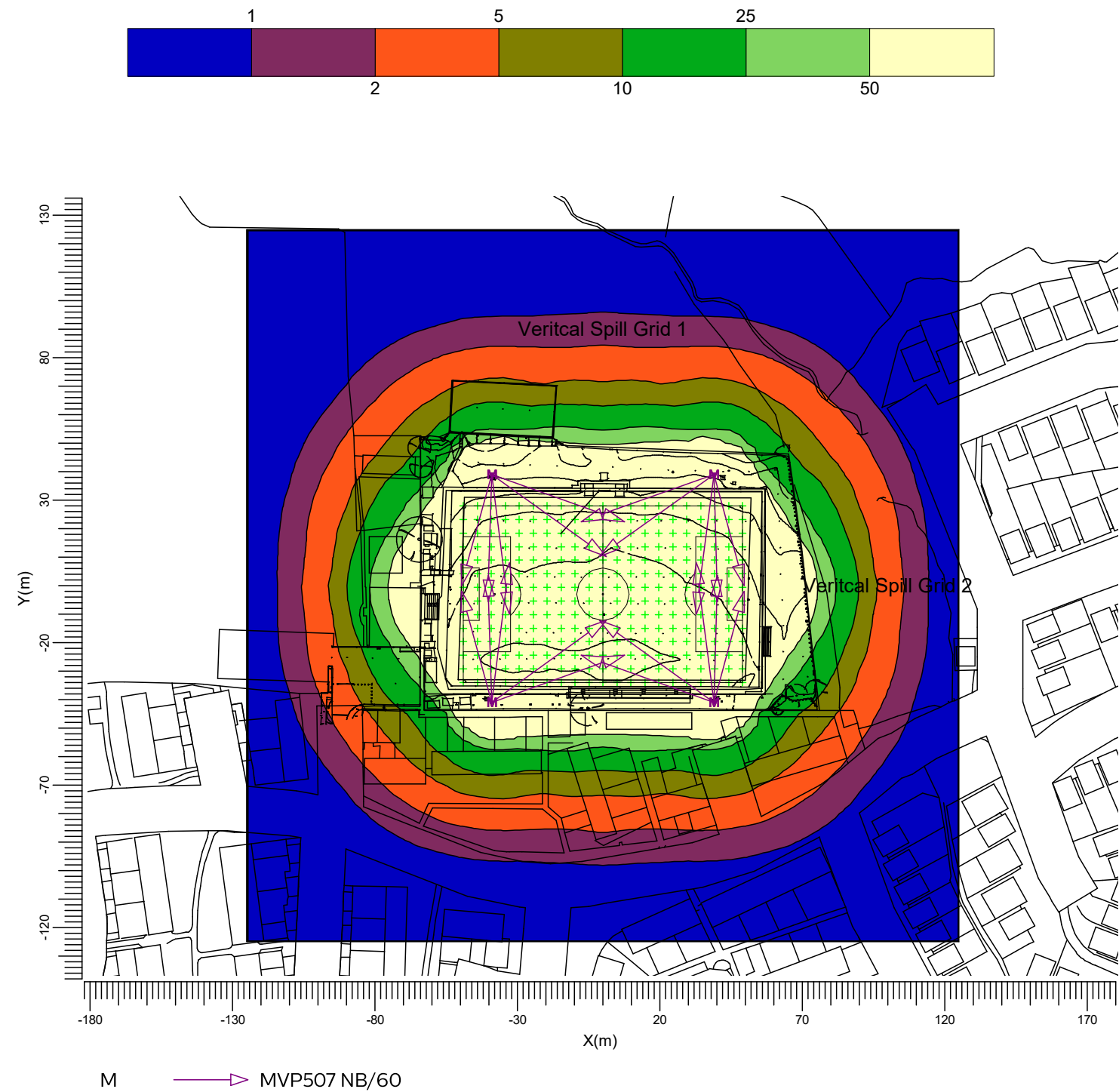
Spillage

Grid

Calculation

: Spillage at Z = -0.00 m

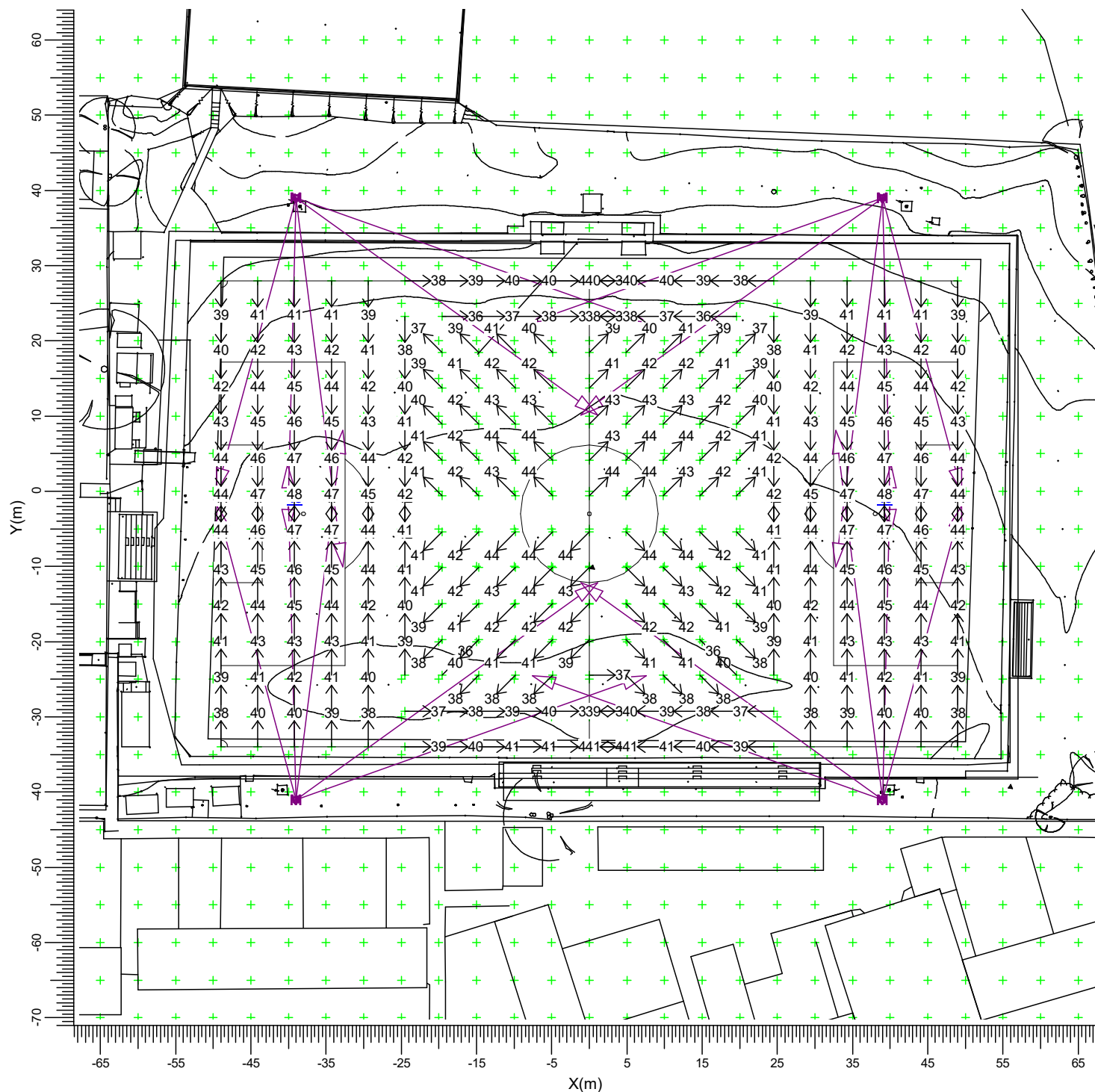
: Surface Illuminance (lux)



Average	Min/Ave	Min/Max	Project maintenance factor	Scale
52.9	0.00	0.00	1.00	1:2000

200lux

Grid of Observers	: Football
Calculation	: Glare Rating
Grid for Background Luminance	: Football (Reflectance: 0.25)
Vertical Viewing Angle	: -2.0 deg



M MVP507 NB/60

Project maintenance factor
0.90

Scale
1:750