

Typical Muga 415v Version

Area Size 37m x 18.5m

Date: 12-11-2006

Designer: Highlights Floodlighting Ltd

Description: Design illustrates Muga Area, Tennis Court and a Basketball Court

4 No. Philips Optivision MVP507 2000w Luminaires mounted on 4 No. 8m high Lighting Columns

415v Supply Required

Maintenance Factor: 0.8

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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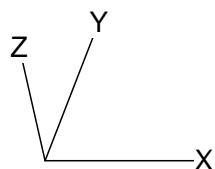
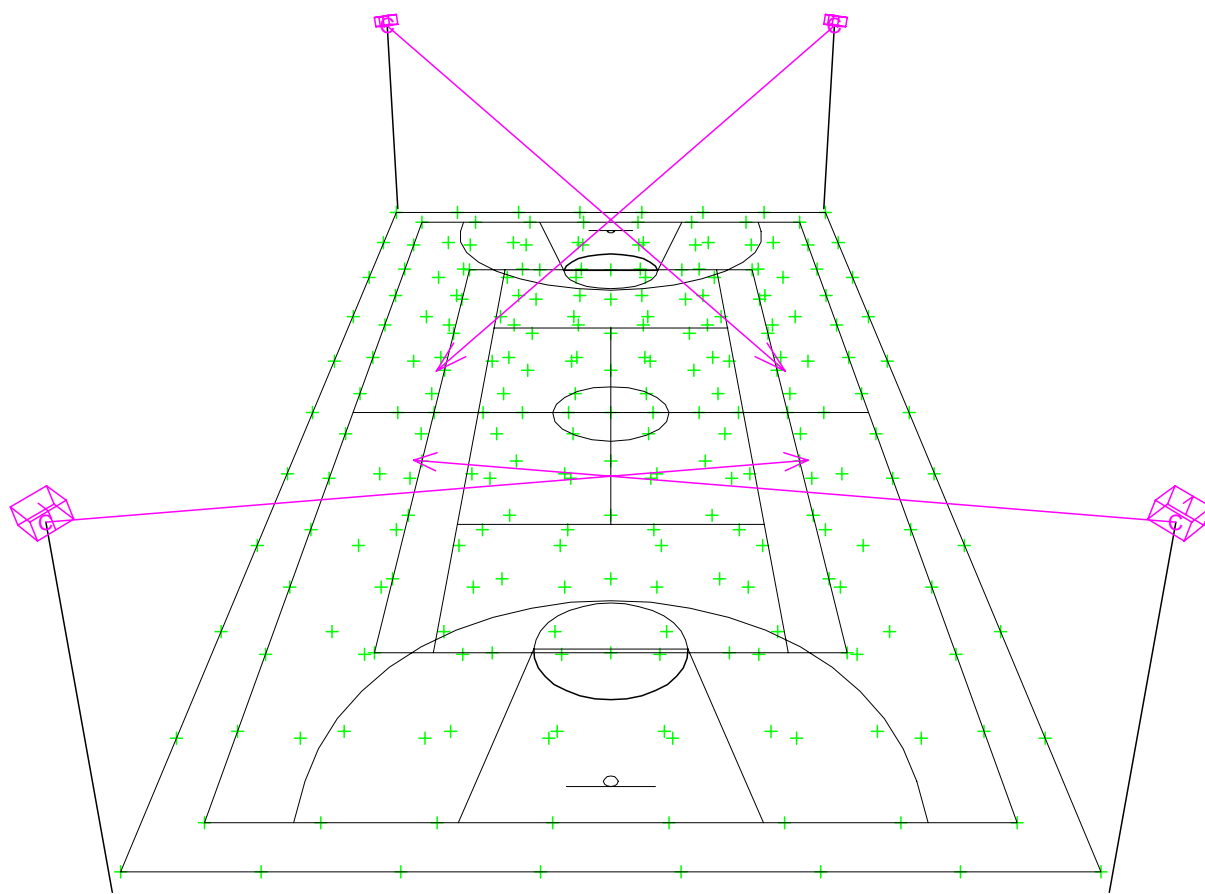
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1. Project Description

1.1 3-D Project Overview



C → MVP507 MB/60

2. Summary

2.1 General Information

The overall maintenance factor used for this project is 0.80.

2.2 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
C	4	MVP507 MB/60	1 * MHN-LA2000W/400V/842	2123.0	1 * 220000

The total installed power: 8.49 (kWatt)

Number of Luminaires Per Arrangement:

Arrangement	Luminaire Code	Power (kWatt)
Point	C 4	8.49

2.3 Calculation Results

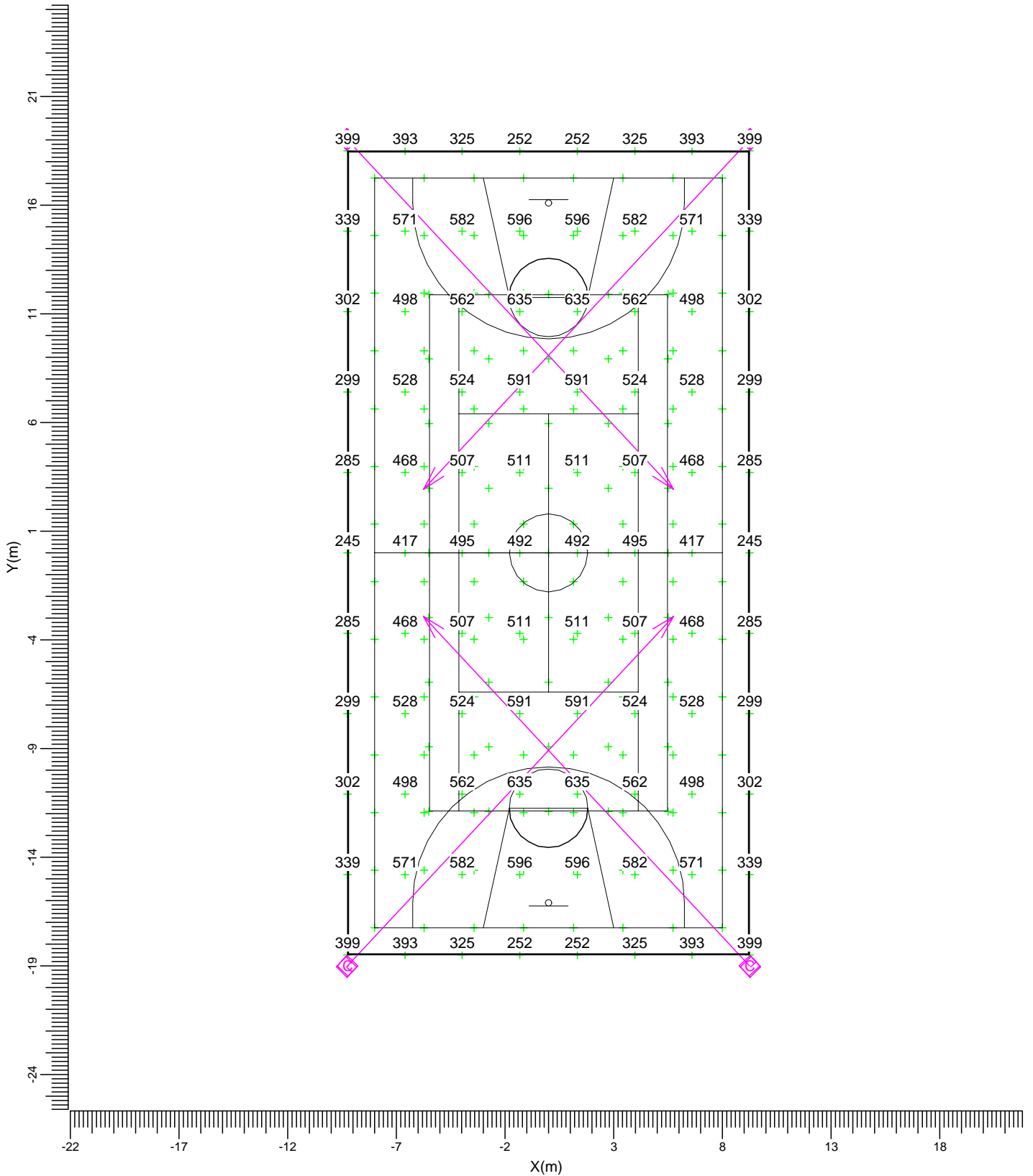
(II)luminance Calculations:

Calculation	Type	Unit	Ave	Min/Ave	Min/Max
Multi Purpose Area	Surface Illuminance	lux	454	0.54	0.39
Tennis Court	Surface Illuminance	lux	536	0.88	0.73
Basketball Court	Surface Illuminance	lux	503	0.66	0.52

3. Calculation Results

3.1 Multi Purpose Area: Graphical Table

Grid : Multi Purpose Area at Z = 0.00 m
Calculation : Surface Illuminance (lux)



C → MVP507 MB/60

Average
454

Min/Ave
0.54

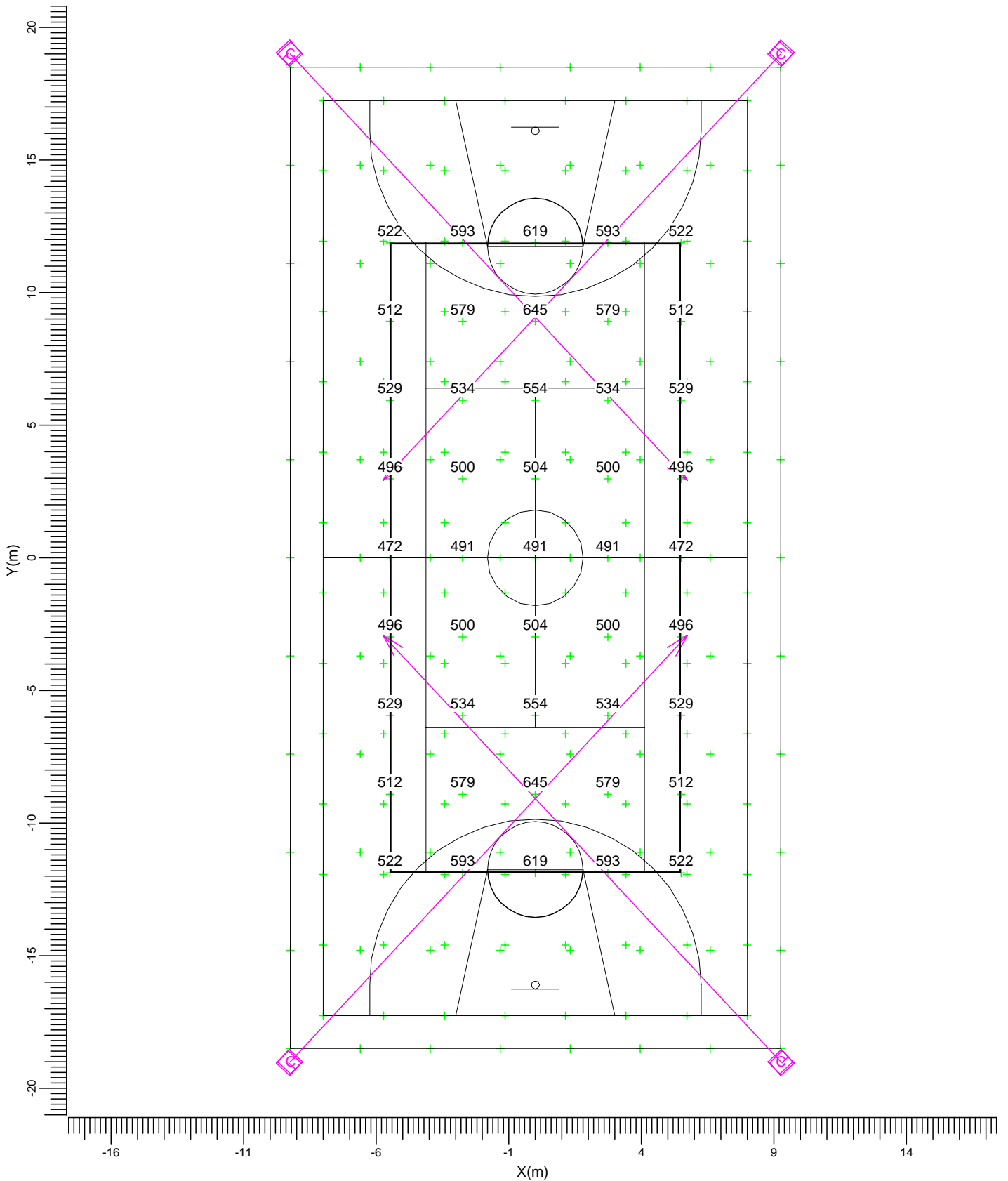
Min/Max
0.39

Project maintenance factor
0.80

Scale
1:250

3.2 Tennis Court: Graphical Table

Grid : Tennis Court at Z = 0.00 m
Calculation : Surface Illuminance (lux)



C → MVP507 MB/60

Average
536

Min/Ave
0.88

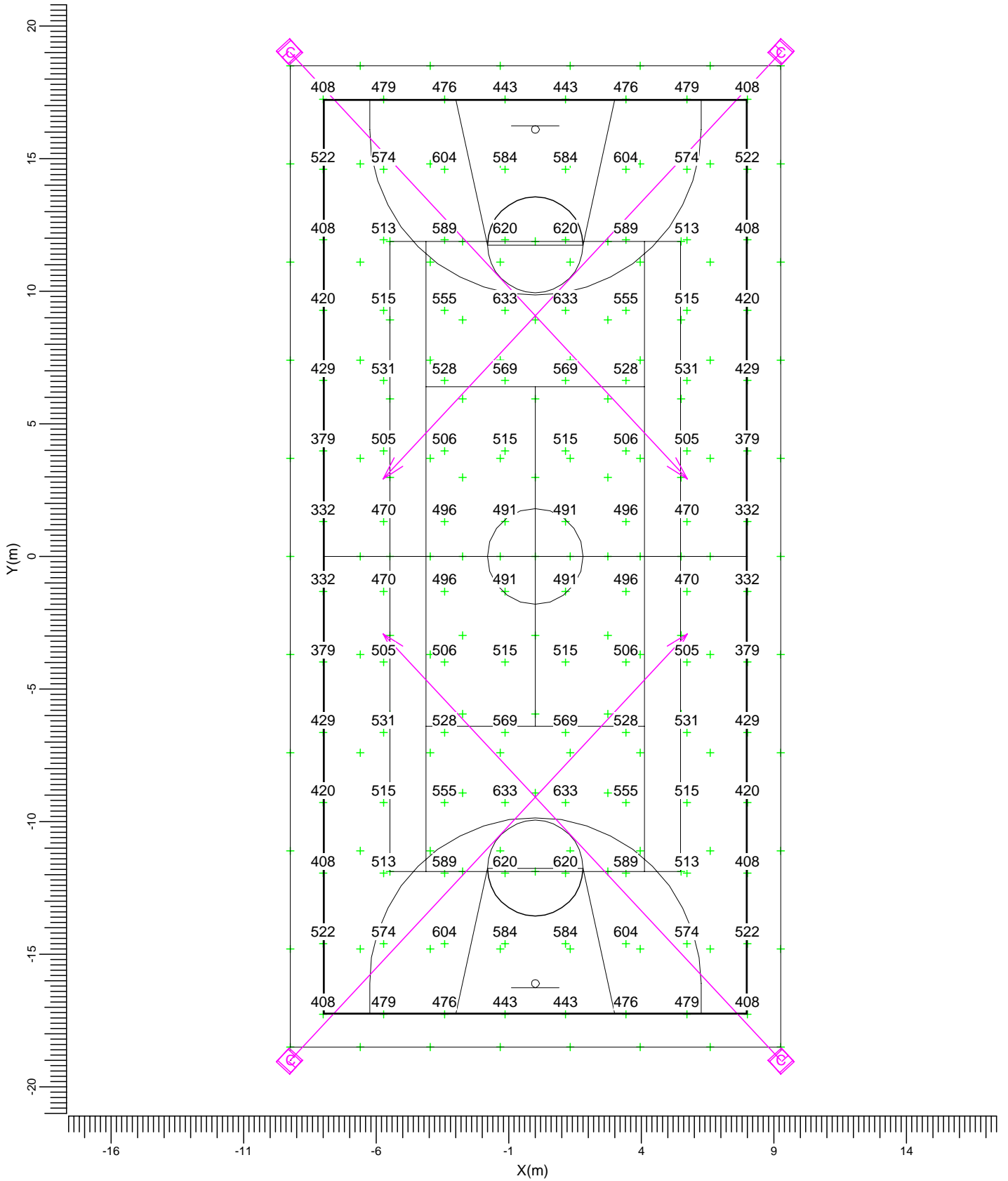
Min/Max
0.73

Project maintenance factor
0.80

Scale
1:200

3.3 Basketball Court: Graphical Table

Grid : Basketball Court at Z = 0.00 m
Calculation : Surface Illuminance (lux)



C → MVP507 MB/60

Average
503

Min/Ave
0.66

Min/Max
0.52

Project maintenance factor
0.80

Scale
1:200

4. Luminaire Details

4.1 Project Luminaires

MVP507 MB/60 1xMHN-LA2000W/400V/842



Light output ratios	
DLOR	: 0.79
ULOR	: 0.00
TLOR	: 0.79
Ballast	: Standard
Lamp flux	: 220000 lm
Luminaire wattage	: 2123.0 W
Measurement code	: LVMA106900

