

HAMPSTEAD SCHOOL

PERFORMANCE CALCULATIONS

Date: 17-09-2009
Customer: Hampstead School
Customer Representative: Mr. R. Pathan

Designer: ANDY POPLETT

Description: COLUMNS

* 4 X 8.0 METRE

TOTAL FENCED AREA 30M x 34M

LUMINAIRES - REQUIRE 230V ELECTRICAL SUPPLY

* 4 X PHILIPS 'OPTIVISION' MVP507 1000W MHN-FC/740 230V

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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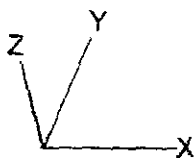
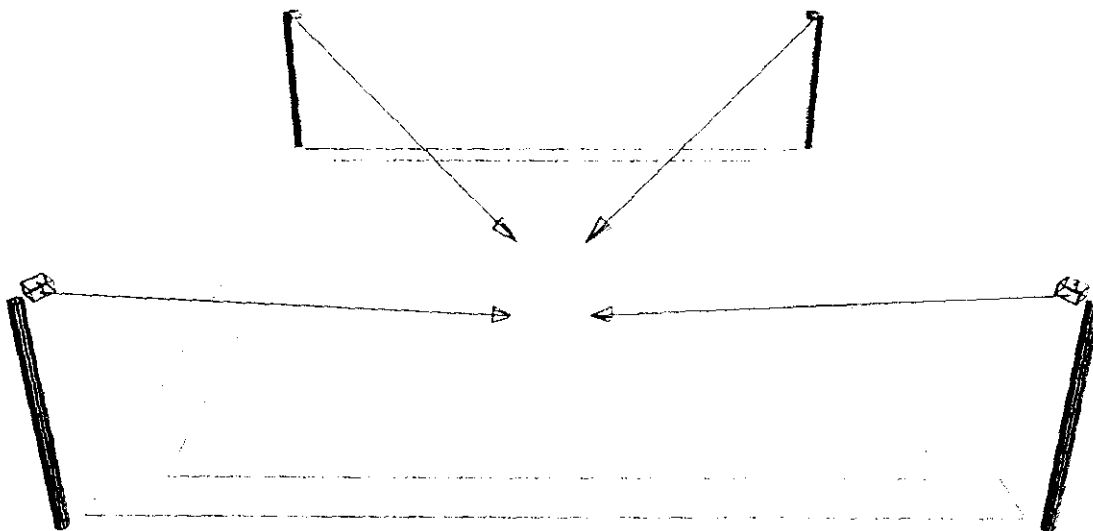
CalcuLuX Area 7.0.1.0

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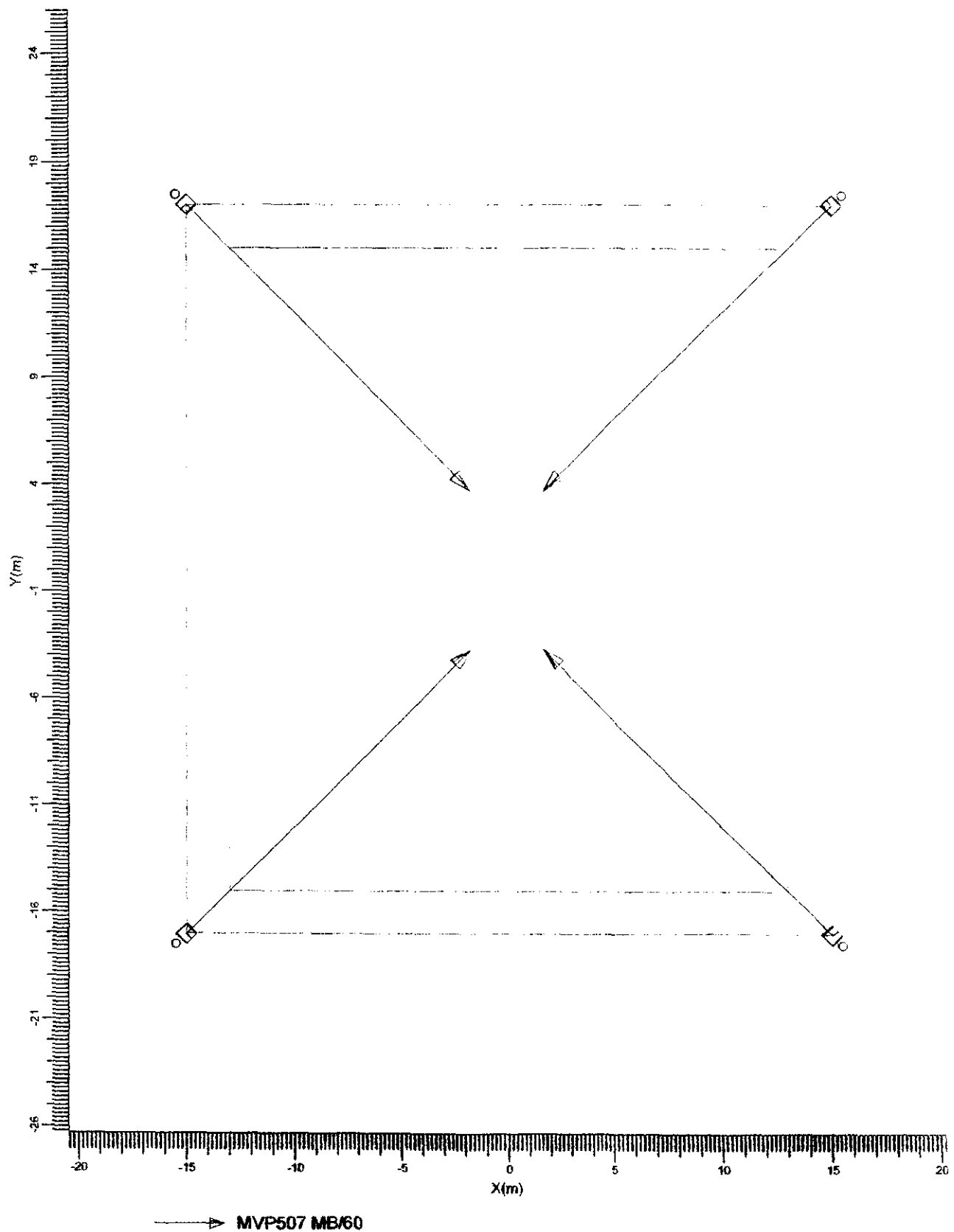
1. Project Description

1.1 3D Project Overview



→ MVP507 MB/60

1.2 Top Project Overview

Scale
1:250

2. Summary

2.1 General Information

The overall maintenance factor used for this project is 0.80.

2.2 Obstacle Information

Obstacle	Transparency (%)	Position		
		X (m)	Y (m)	Z (m)
Corner Columns	100	-15.50	-17.50	0.00
		15.50	-17.50	0.00
		-15.50	17.50	0.00
		15.50	17.50	0.00

2.3 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
F	4	MVP507 MB/60	1 * MHN-FC1000W/230V/740	1105.0	1 * 93000

The total installed power: 4.42 (kWatt)

Number of Luminaires Per Arrangement:

Arrangement	Luminaire Code	Power (kWatt)
Point	F 4	4.42

2.4 Calculation Results

(II) Illuminance Calculations:

Calculation	Type	Unit	Ave	Min/Ave	Min/Max
Pitch	Surface Illuminance	lux	203	0.72	0.65

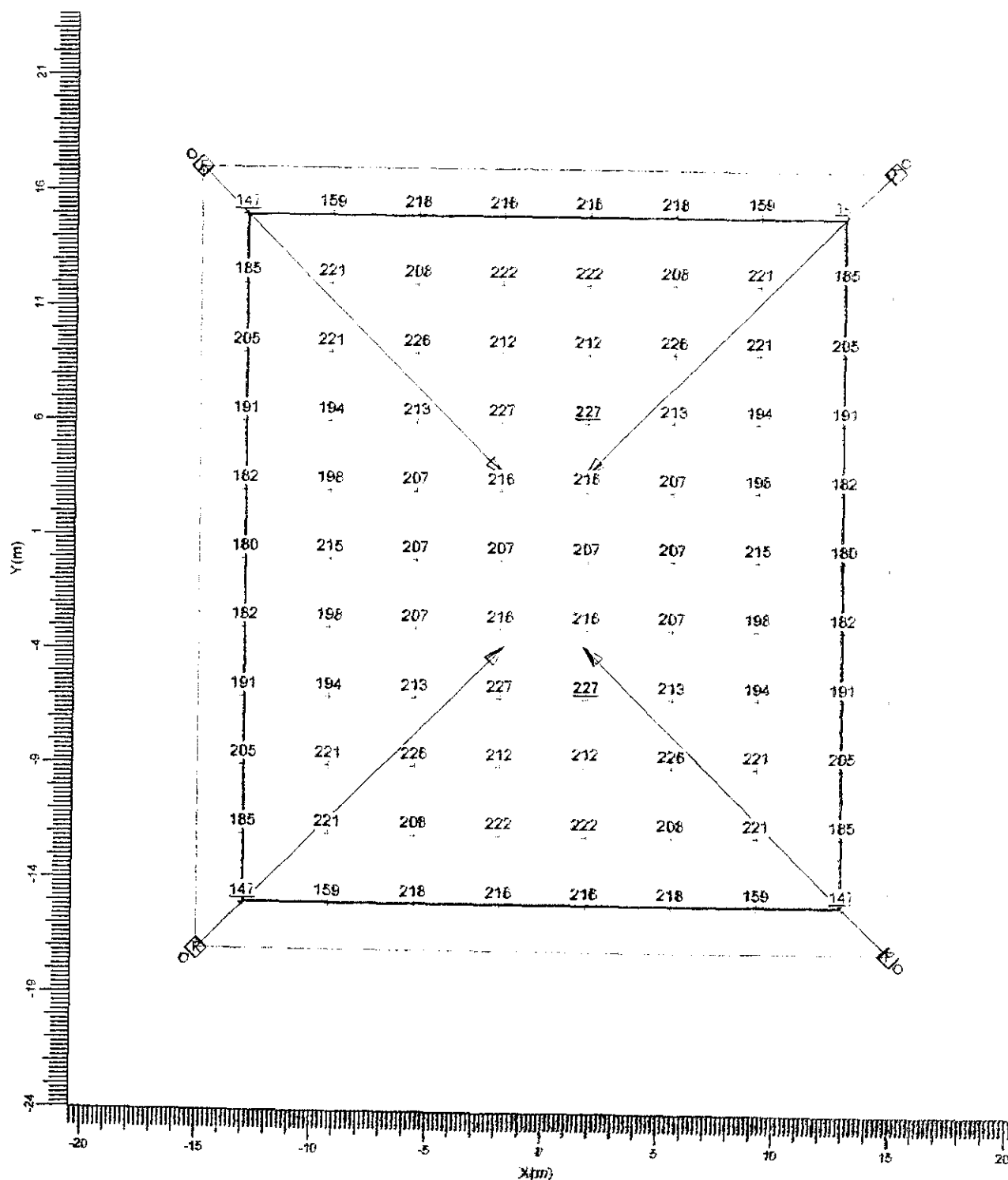
Obtrusive Light Calculations:

The upward light ratio (ULR) is 0.00.

3. Calculation Results

3.1 Pitch: Graphical Table

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



F → MVP507 MB/60

Average
203

Min/Ave
0.72

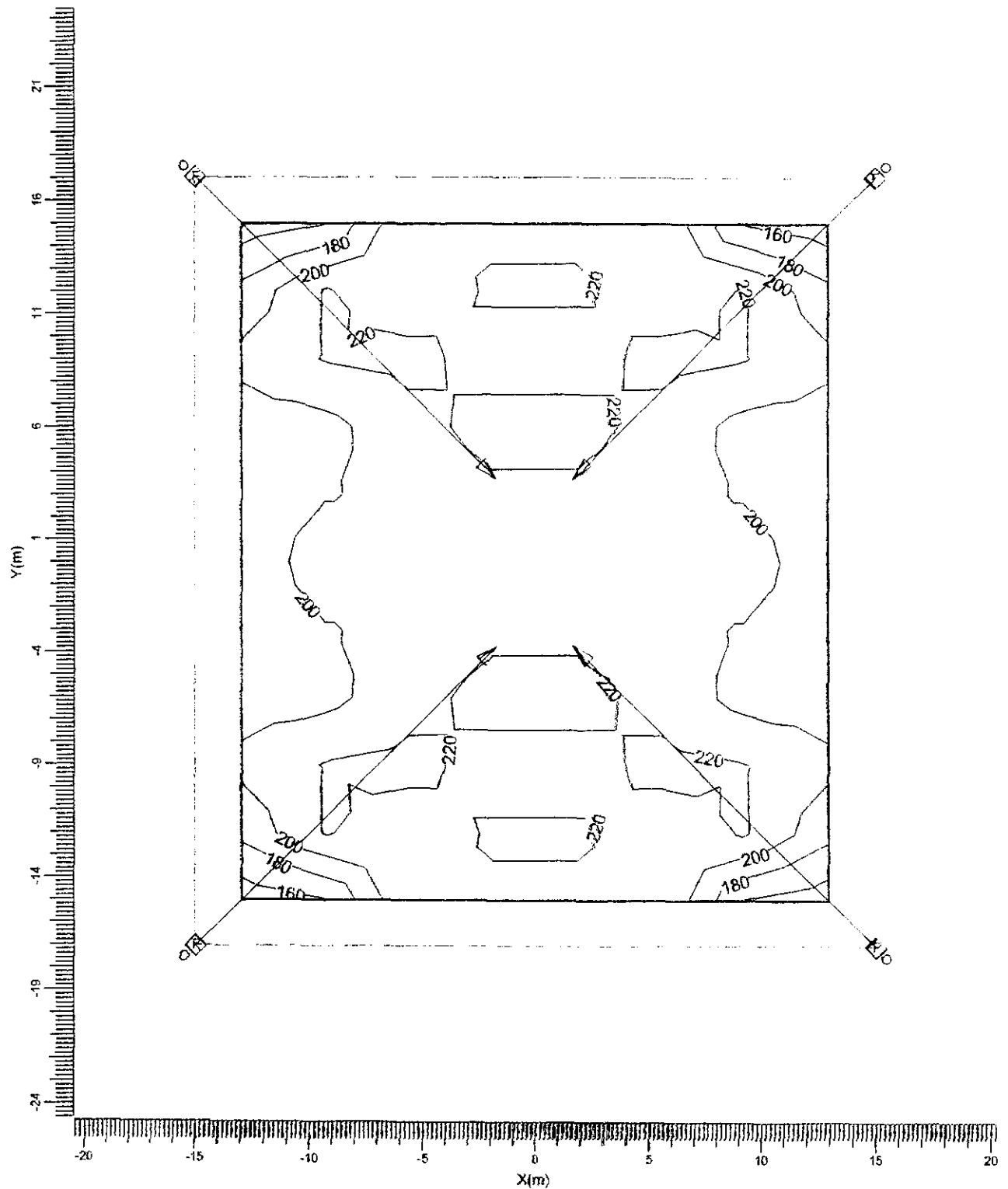
Min/Max
0.65

Project maintenance factor
0.80

Scale
1:250

3.2 Pitch: Iso Contour

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



Average
203

Min/Ave
0.72

Min/Max
0.65

Project maintenance factor
0.80

Scale
1:250

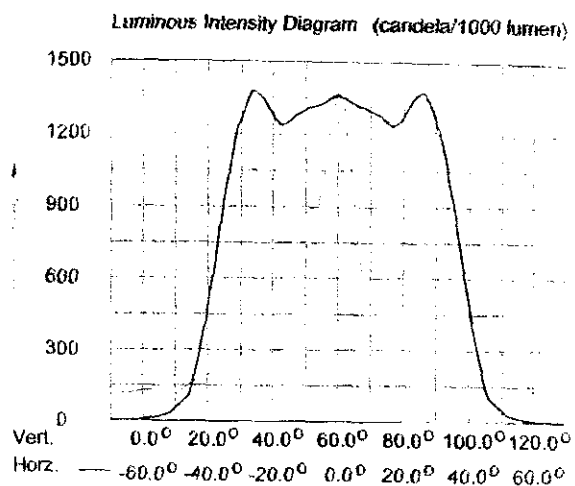
4. Luminaire Details

4.1 Project Luminaires

OPTIVISION MVP507 1xMH-FC1000W/230V/740 MB/60

**Light output ratios**

DLOR	: 0.89
ULOR	: 0.00
TLOR	: 0.89
Ballast	: Standard
Lamp flux	: 93000 lm
Luminaire wattage	: 1105.0 W
Measurement code	: LVM0799800



5. Installation Data

5.1 Legends

Project Luminaires:

Code	Qty	Luminaire Type	Lamp Type	Flux (lm)
F	4	MVP507 MB/60	1 * MHN-FC1000W/230V/740	1 * 93000

5.2 Luminaire Positioning and Orientation

Qty and Code	Position			Aiming Points			Aiming Angles		
	X (m)	Y (m)	Z (m)	X (m)	Y (m)	Z (m)	Rot.	Tilt90	Tilt0
1 * F	-15.00	-17.00	8.00	-1.67	-3.67	0.00	45.0	67.0	0.0
1 * F	-15.00	17.00	8.00	-1.67	3.67	0.00	-45.0	67.0	-0.0
1 * F	15.00	-17.00	8.00	1.67	-3.67	0.00	135.0	67.0	-0.0
1 * F	15.00	17.00	8.00	1.67	3.67	0.00	-135.0	67.0	0.0