

# Huddersfield Giants Pitch4

Date: 29-04-2021

Designer: Dan Shah

Description: 200Lux Philips LED System

6 x 15m Masts  
12 x Philips BVP528 NB/A55

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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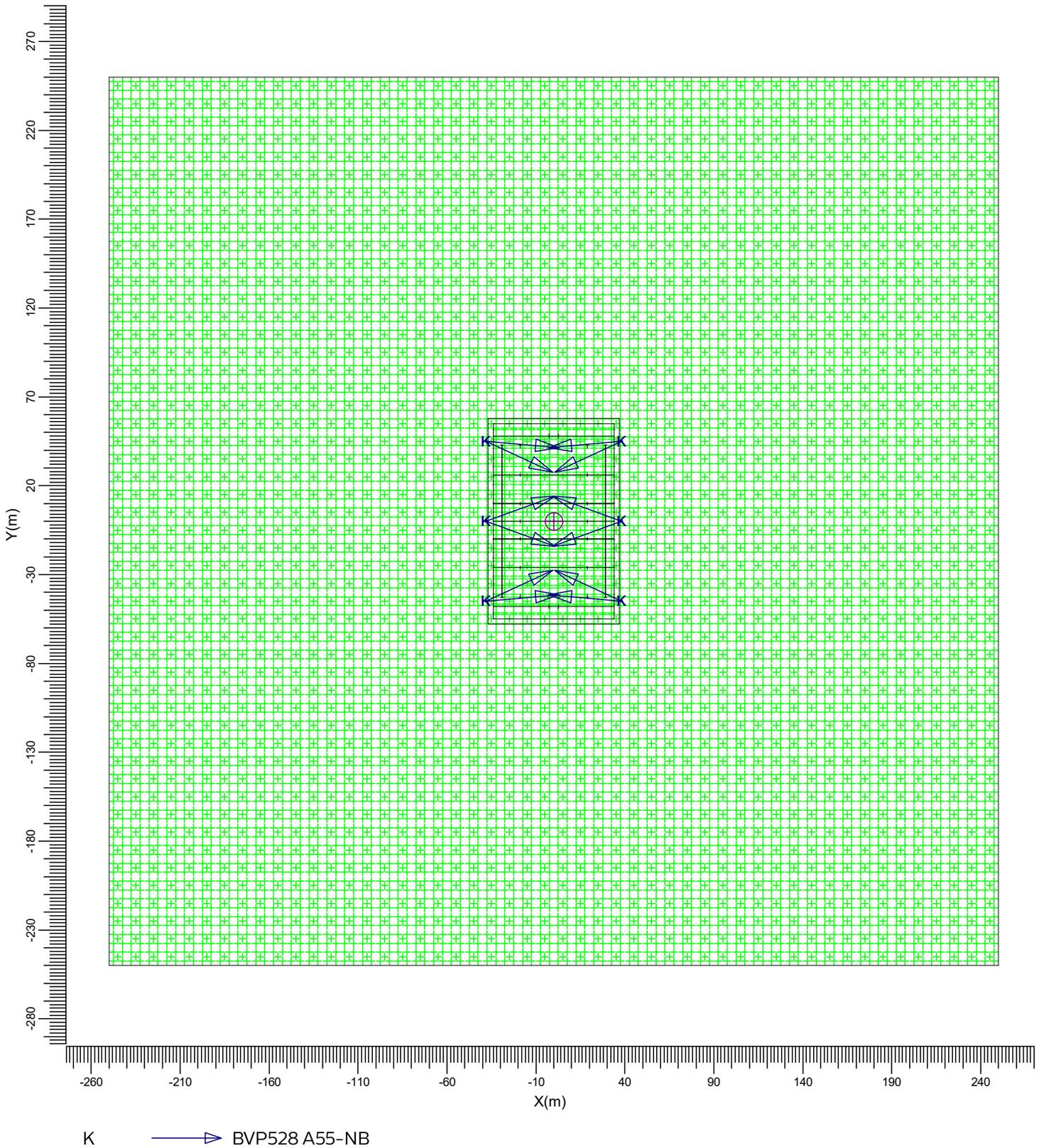
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# 1. Project Description

## 1.1 Top Project Overview



Scale  
1:3000

## 2. Summary

### 2.1 Observer Information

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Code	Observer	Position		
		X (m)	Y (m)	Z (m)
Aa	Vertical Spill	0.01	0.01	3.00

### 2.2 Project Luminaires

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Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
K	12	BVP528 A55-NB	1 * LED2220/757 OUT T15 50K	1500.0	1 * 222600

The total installed power: 18.00 (kWatt)

### 2.3 Calculation Results

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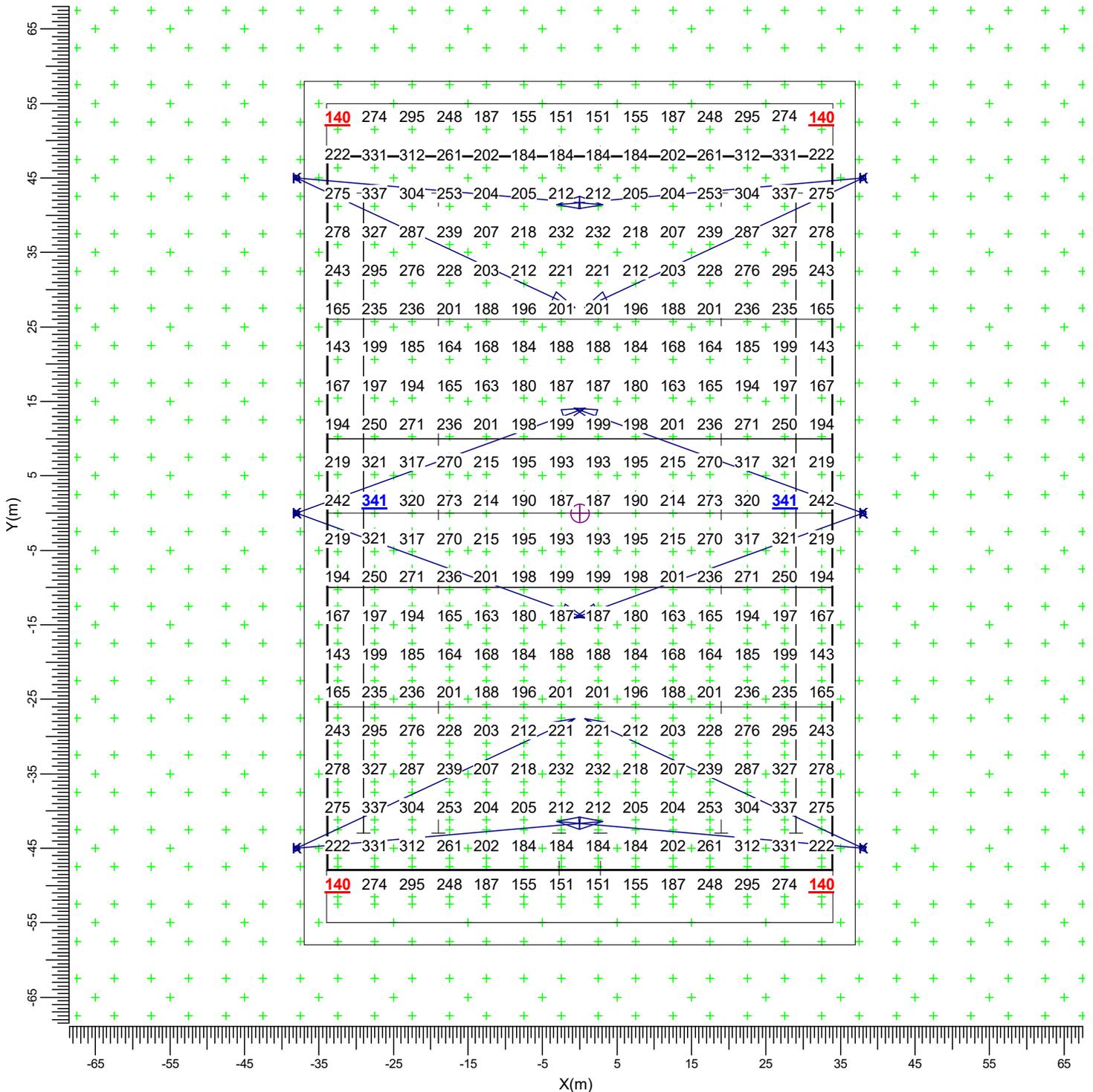
(Il)luminance Calculations:

Calculation	Type	Unit	Ave Min/AveMin/Max		
Rugby	Surface Illuminance	lux	224	0.63	0.41
Horizontal Spill	Surface Illuminance	lux	8.97	0.00	0.00
Vertical Spill	Illuminance -> Aa	lux	3.24	0.04	0.00

### 3. Calculation Results

#### 3.1 Rugby: Graphical Table

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



K      —▶ BVP528 A55-NB

Average  
224

Min/Ave  
0.63

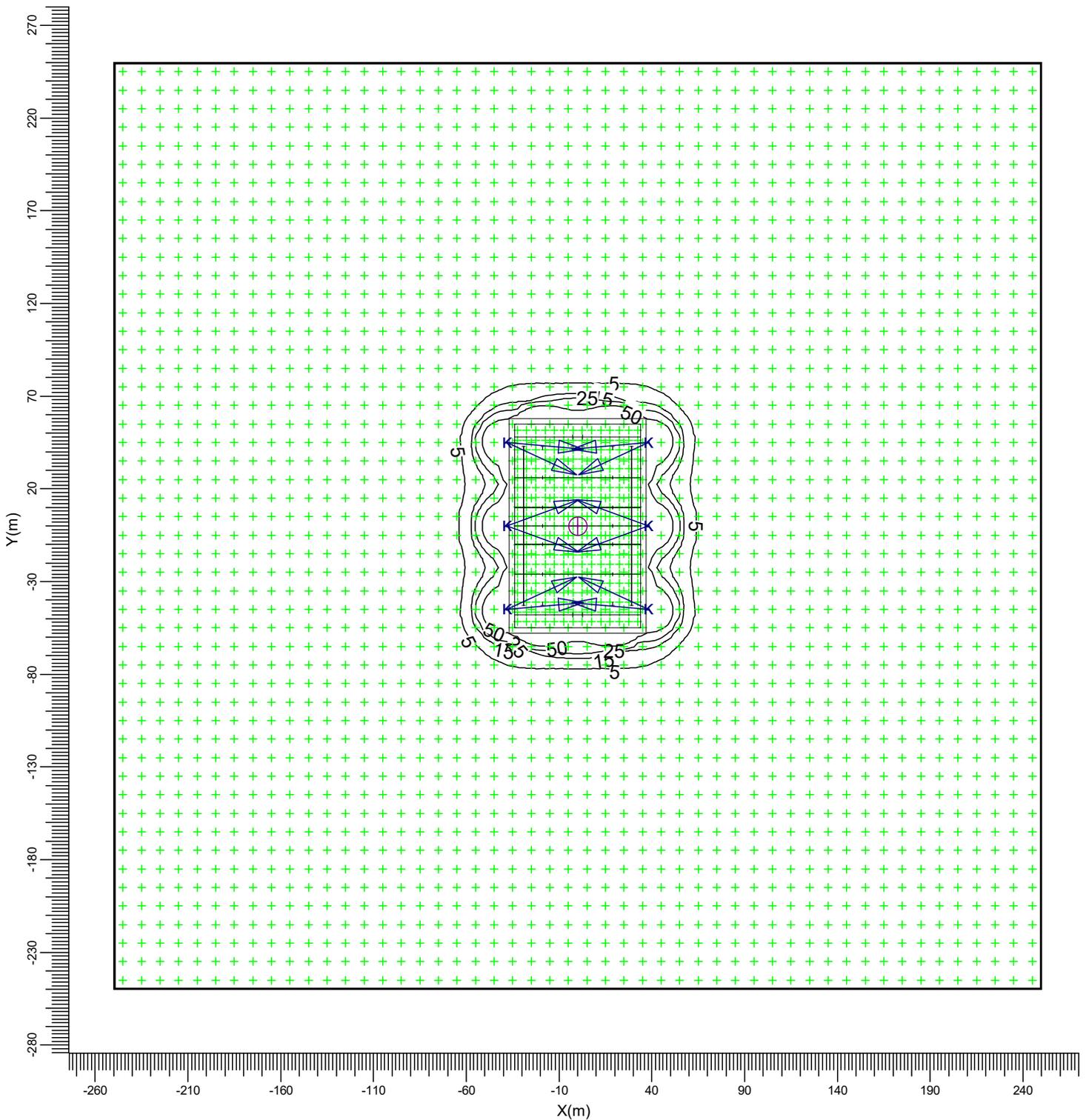
Min/Max  
0.41

Project maintenance factor  
1.00

Scale  
1:750

### 3.2 Horizontal Spill: Iso Contour

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



K  BVP528 A55-NB

Average  
8.97

Min/Ave  
0.00

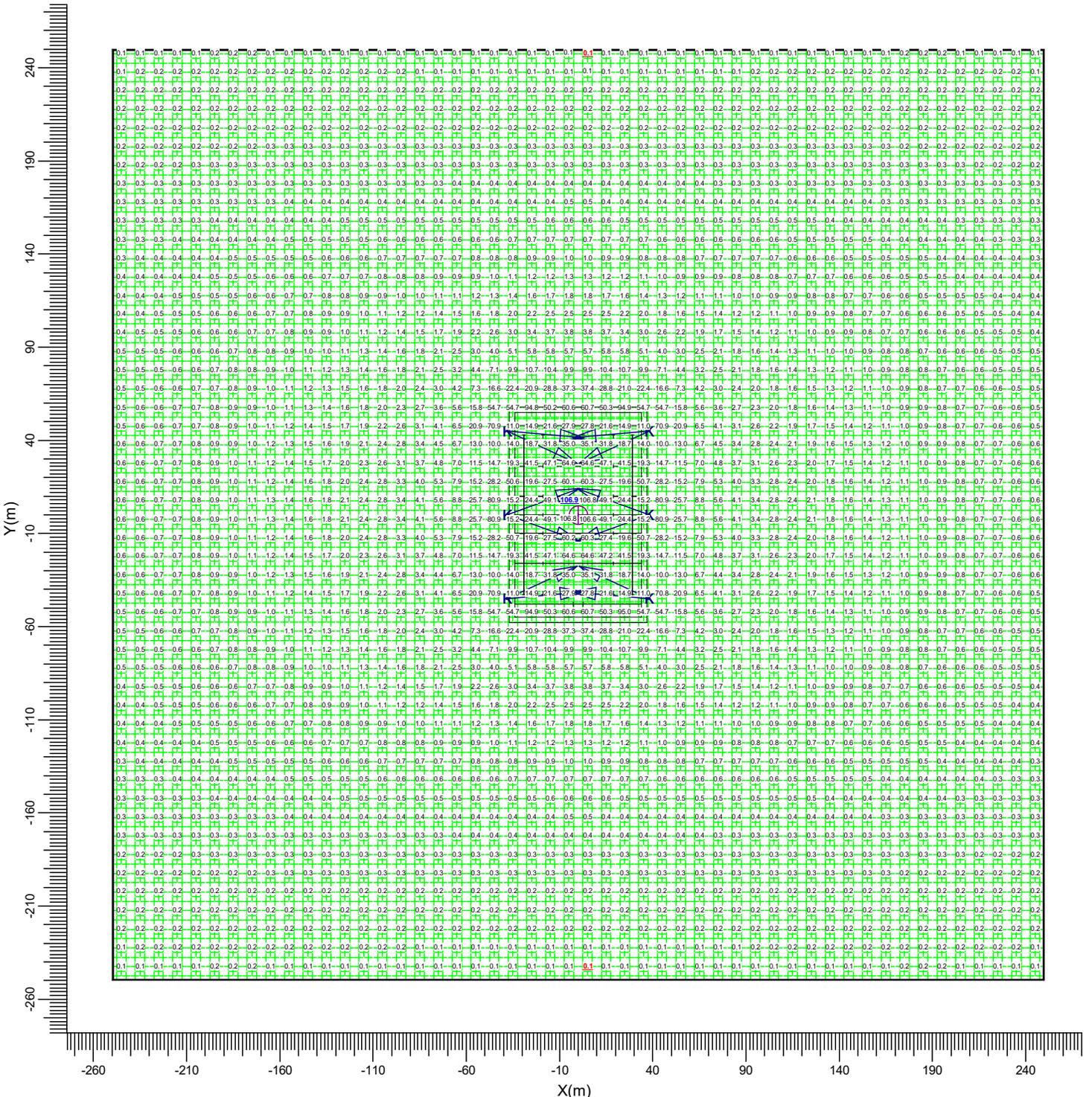
Min/Max  
0.00

Project maintenance factor  
1.00

Scale  
1:3000

### 3.3 Vertical Spill: Graphical Table

Grid : Vertical Spill at Z = -0.00 m  
 Calculation : Illuminance towards Vertical Spill (lux)  
 Height above grid : 3.00 m



K BVP528 A55-NB

Average  
3.24

Min/Ave  
0.04

Min/Max  
0.00

Project maintenance factor  
1.00

Scale  
1:3000

## 4. Luminaire Details

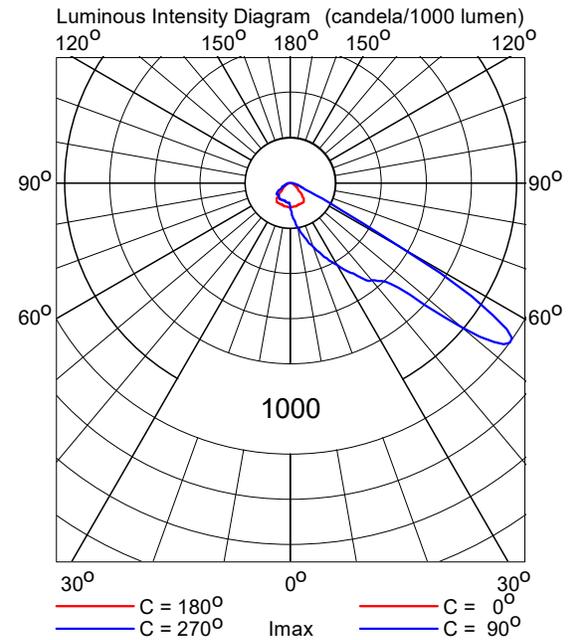
### 4.1 Project Luminaires

OptiVision LED  
 BVP528 1xLED2220/757 OUT T15 50K A55-NB

Light output ratios

DLOR	:	0.84
ULOR	:	0.00
TLOR	:	0.84
Ballast	:	N/A
Lamp flux	:	222600 lm
Luminaire wattage	:	1500.0 W
Measurement code	:	LVM2043600

Note: Luminaire data not from database.



## 5. Installation Data

### 5.1 Legends

Project Luminaires:

Code	Qty	Luminaire Type	Lamp Type	Flux (lm)
K	12	BVP528 A55-NB	1 * LED2220/757 OUT T15 50K	1 * 222600

### 5.2 Luminaire Positioning and Orientation

Qty and Code	Position			Aiming Angles		
	X (m)	Y (m)	Z (m)	Rot.	Tilt90	Tilt0
1 * K	-38.00	-45.00	15.00	5.0	70.0	-0.0
1 * K	-38.00	-45.00	15.00	25.0	70.0	-0.0
1 * K	-38.00	-0.00	15.00	-20.0	70.0	0.0
1 * K	-38.00	-0.00	15.00	20.0	70.0	-0.0
1 * K	-38.00	45.00	15.00	-5.0	70.0	0.0
1 * K	-38.00	45.00	15.00	-25.0	70.0	0.0
1 * K	38.00	-45.00	15.00	175.0	70.0	0.0
1 * K	38.00	-45.00	15.00	155.0	70.0	0.0
1 * K	38.00	-0.00	15.00	-160.0	70.0	-0.0
1 * K	38.00	-0.00	15.00	160.0	70.0	0.0
1 * K	38.00	45.00	15.00	-175.0	70.0	-0.0
1 * K	38.00	45.00	15.00	-155.0	70.0	-0.0

## 6. Financial Information

### 6.1 Installation Data

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Burning hours/year	0 hr
Amortization period	1.0 yr
Interest rate	0.0 %
kWh price	0.00 €

### 6.2 Luminaire Information

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Project Luminaires	Qty	Prices (€)				Relamping period (yr)
		Lamp	Luminaire	Installation	Maintenance	
BVP528 A55-NB	12	0.00	0.00	0.00	0.00	1.00

### 6.3 Total cost

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Costs per year		
Energy	€	0.00
Investment		0.00
Lamps		0.00
Maintenance		0.00
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Total	€	0.00
Total investment	€	0.00