

# Tonna RFC- Training pitch

## Training Pitch LED

Date: 11-08-2025

Designer: Andy Poplett

Description: The design has been completed using the Philips Asymmetric OptiVision LED GEN 3 Floodlights. A total of 6no have been used to achieve an average of 100lux.

Floodlights are mounted on 6 x 15 metre columns

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](mailto:andrew.poplett@signify.com)

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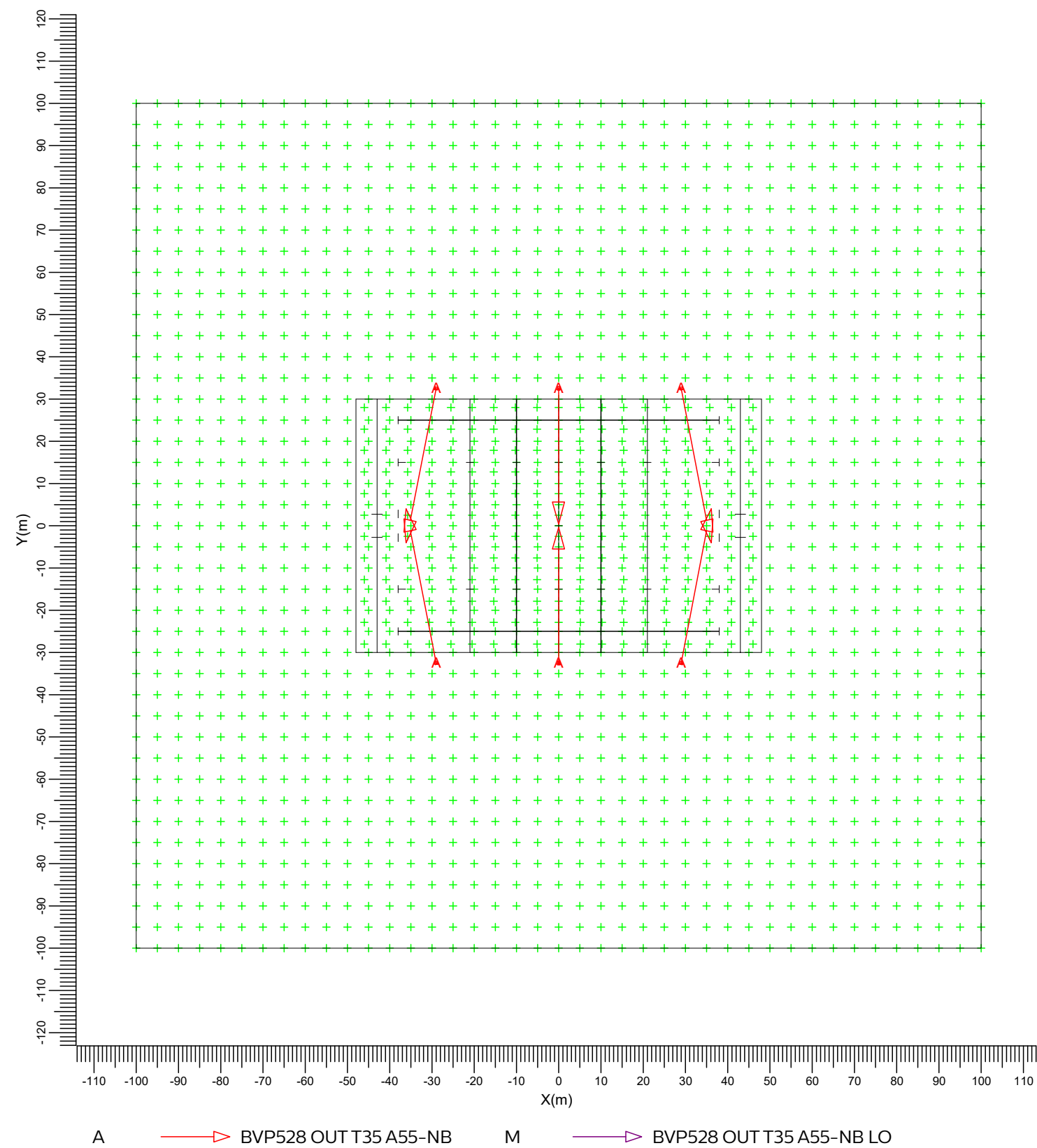
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1. Project Description

1.1 Top Project Overview



Scale  
1:1250

## 2. Summary

### 2.1 Project Luminaires

| Code | Qty | Luminaire Type        | Lamp Type          | Power (W) | Flux (lm)  |
|------|-----|-----------------------|--------------------|-----------|------------|
| A    | 6   | BVP528 OUT T35 A55-NB | 1 * LED2590-4S/757 | 1505.9    | 1 * 259000 |

The total installed power: 9.04 (kWatt)

Number of Luminaires Per Arrangement:

| Arrangement | Luminaire<br>Code | Power (kWatt) |
|-------------|-------------------|---------------|
|             | A                 |               |
| Point       | 4                 | 6.02          |
| Point1      | 2                 | 3.01          |

### 2.2 Calculation Results

(II)luminance Calculations:

| Calculation | Type                | Unit | Ave Min/AveMin/Max |      |      |
|-------------|---------------------|------|--------------------|------|------|
| Rugby       | Surface Illuminance | lux  | 152                | 0.53 | 0.37 |
| Spillage    | Surface Illuminance | lux  | 27.0               | 0.00 | 0.00 |

Obtrusive Light Calculations:

The upward light ratio (ULR) is 0.00.

3. Calculation Results

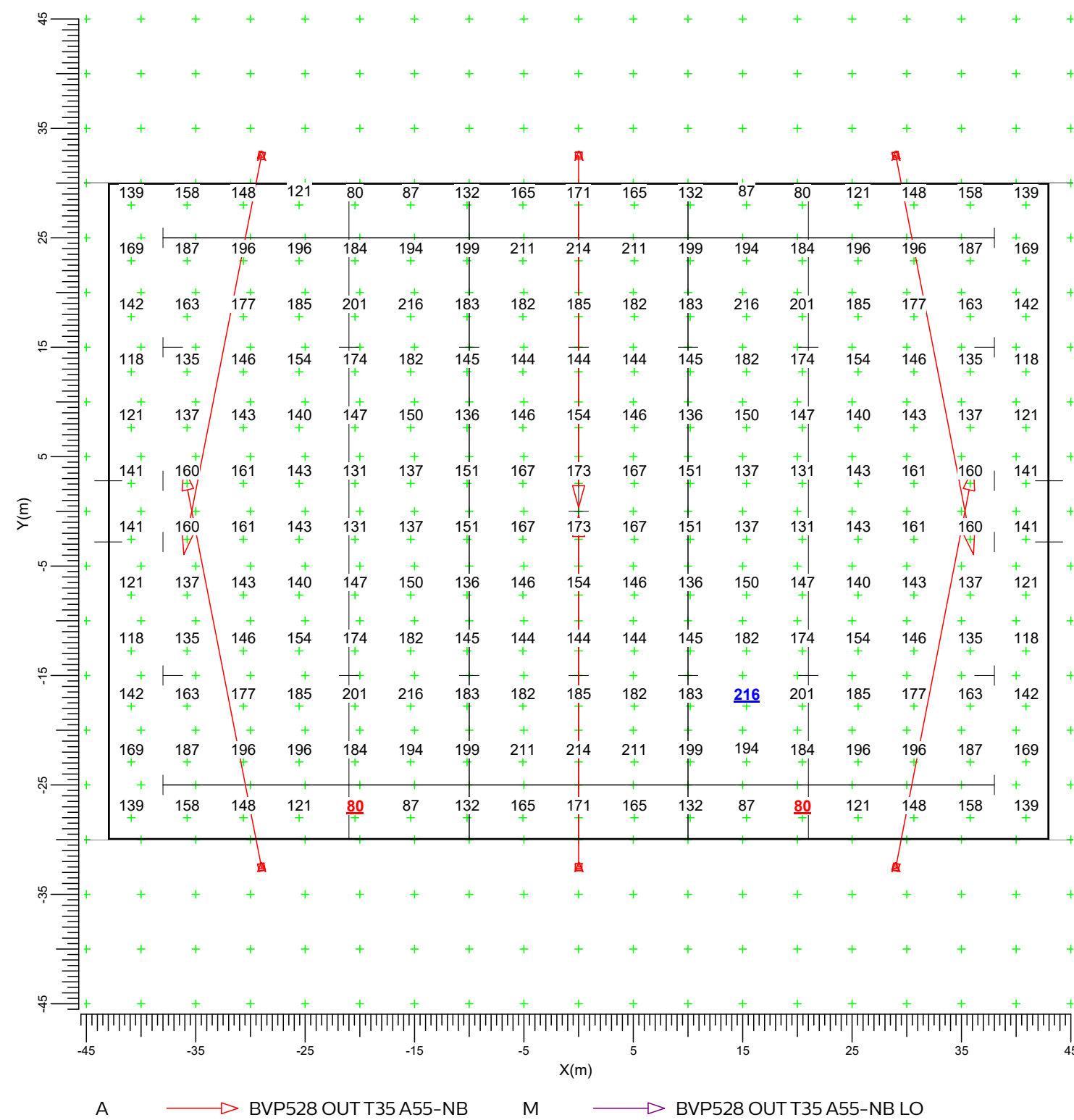
3.1 Rugby: Graphical Table

Grid

: Rugby at Z = -0.00 m

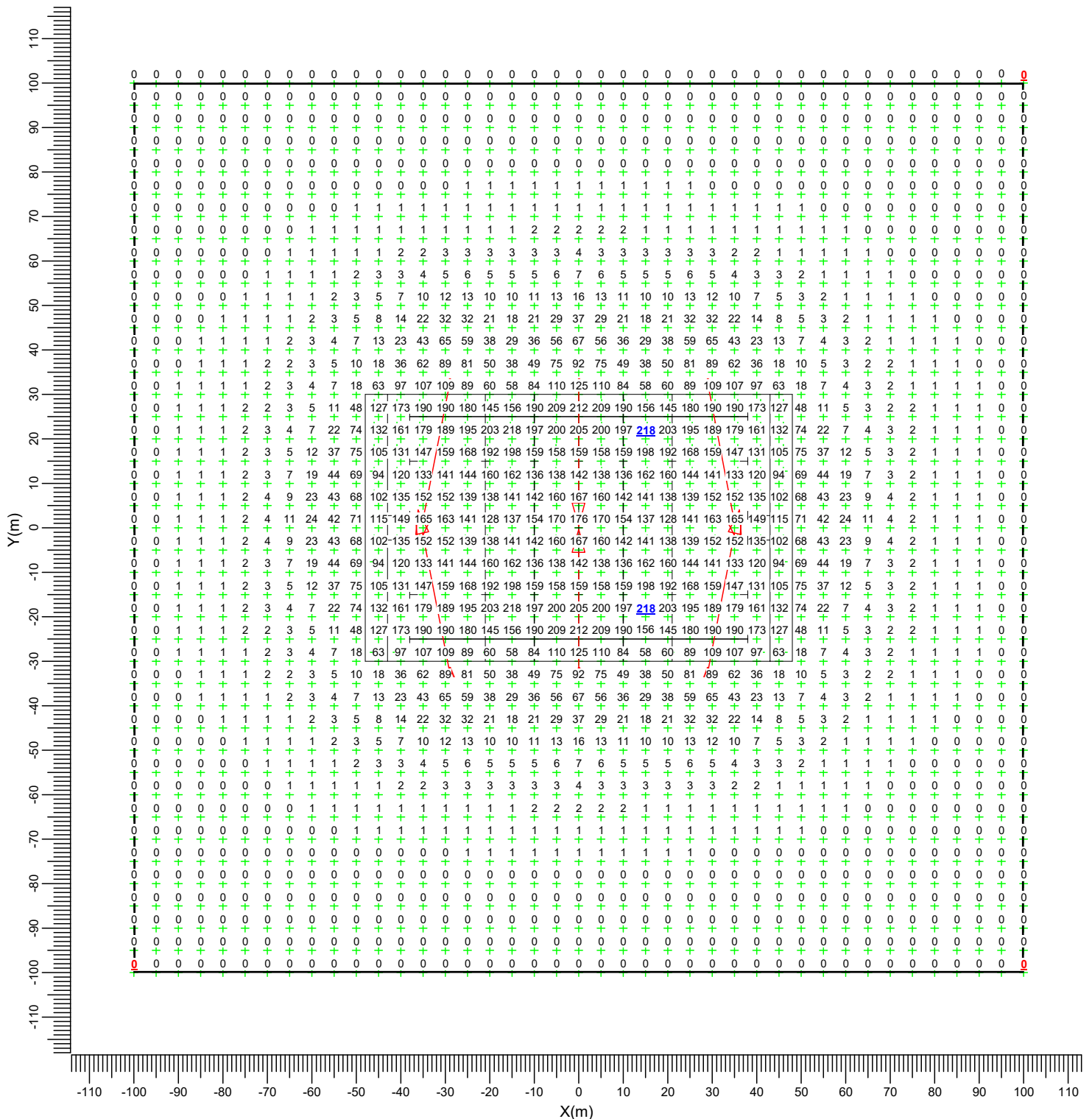
Calculation

: Surface Illuminance (lux)



## 3.2 Spillage: Graphical Table

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



A  BVP528 OUT T35 A55-NB M  BVP528 OUT T35 A55-NB LO

Average  
27.0

Min/Ave  
0.00

Min/Max  
0.00

Project maintenance factor  
0.90

Scale  
1:1250

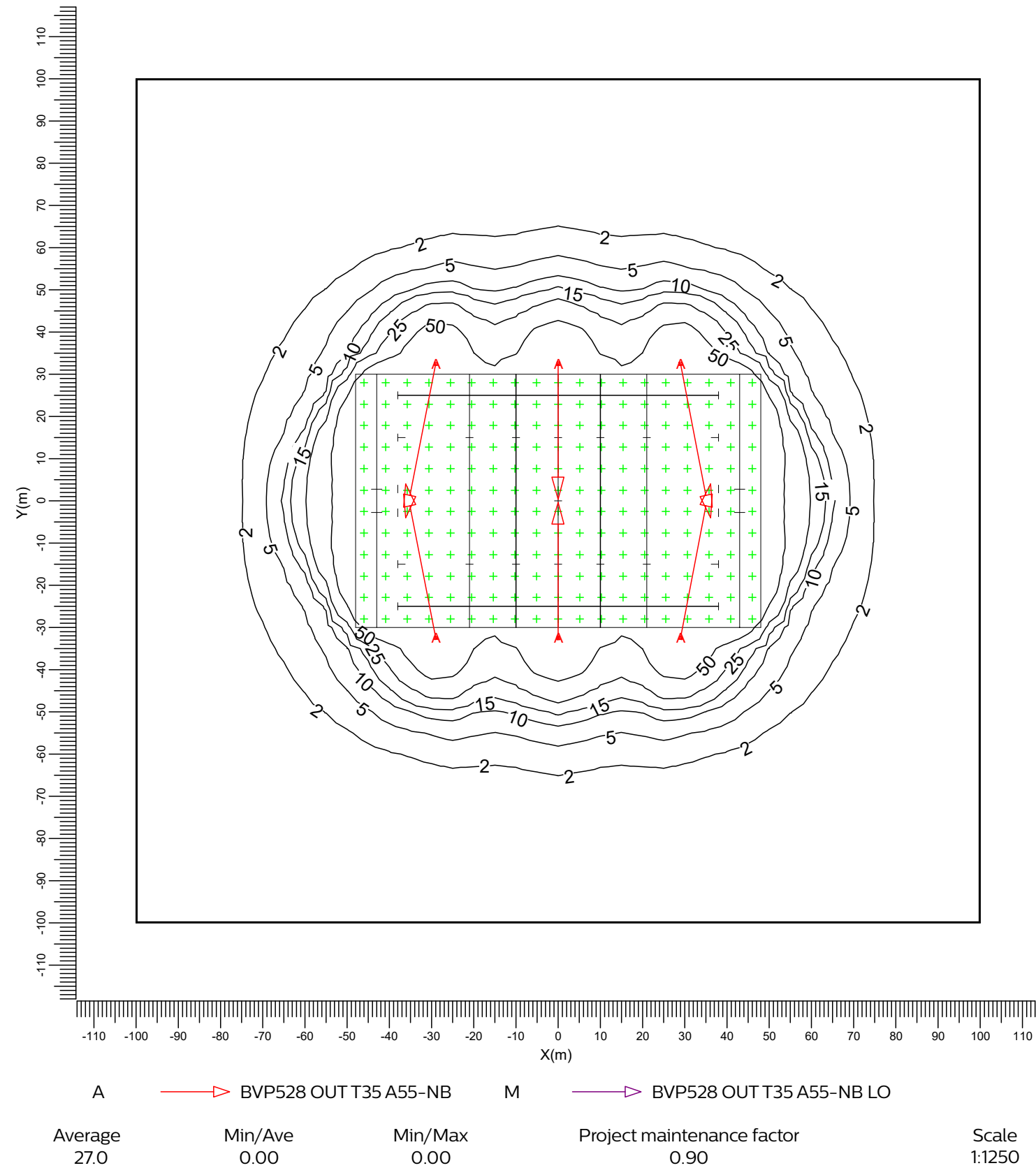
3.3 Spillage: Iso Contour

Grid

Calculation

: Spillage at Z = -0.00 m

: Surface Illuminance (lux)



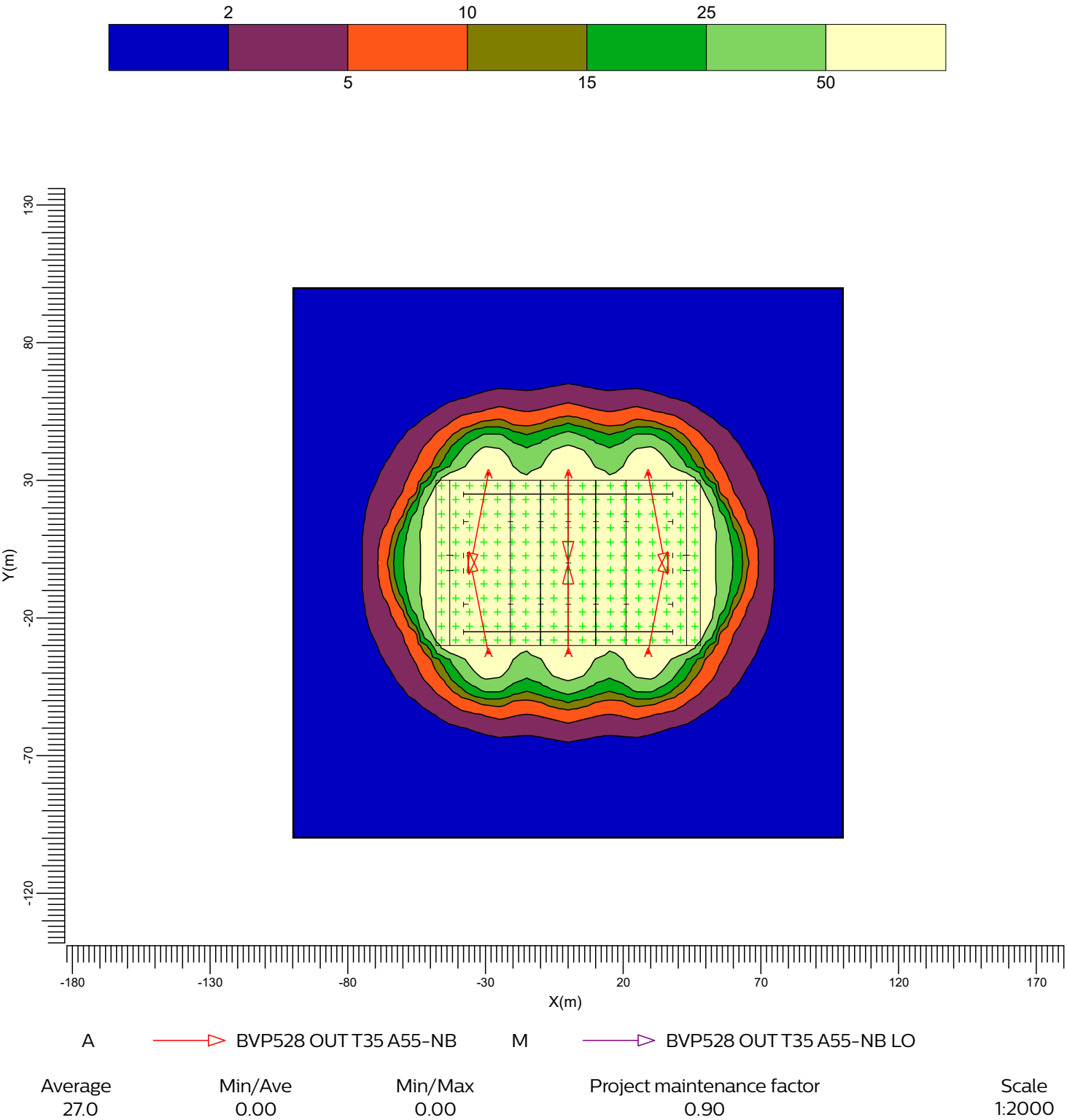
3.4 Spillage: Filled Iso Contour

Grid

Calculation

: Spillage at Z = -0.00 m

: Surface Illuminance (lux)



# 4. Luminaire Details

## 4.1 Project Luminaires

OptiVision LED gen3.5 2022  
BVP528 OUT T35 1xLED2590-4S/757/757 E3/D4I A55-NB

|                     |              |
|---------------------|--------------|
| Light output ratios |              |
| DLOR                | : 0.82       |
| ULOR                | : 0.00       |
| TLOR                | : 0.82       |
| Ballast             | : E3/D4I     |
| Lamp flux           | : 259000 lm  |
| Luminaire wattage   | : 1505.9 W   |
| Measurement code    | : LVA2111038 |

Note: Luminaire data not from database.

