

Taibach RFC

LED Floodlighting

Date:

16-04-2025

Designer:

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Description:



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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1. Project Description

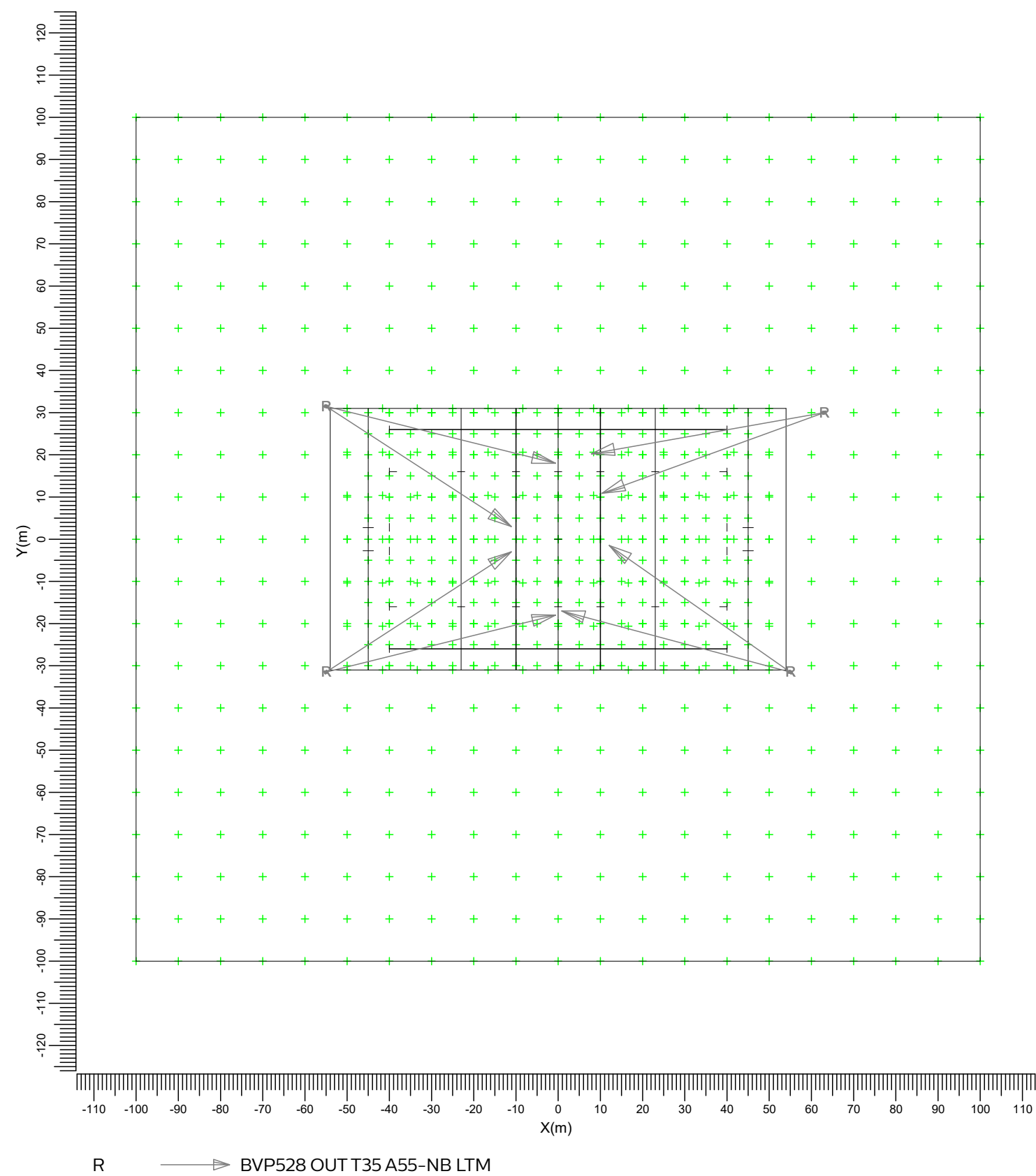
1.1 Description

Pitch:- 100lux
90m x 62m (Post to Post) + try zone

Columns:-
4 X 15.0m

Luminaires:-
*8 x BVP528 OUT T35 1xLED2590-4S/740 A55-NB LTM

1.2 Top Project Overview



Scale
1:1250

2. Summary

2.1 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
R	8	BVP528 OUT T35 A55-NB LTM	1 * LED2590-4S/740	1505.9	1 * 259000

The total installed power: 12.05 (kWatt)

Number of Luminaires Per Switching Mode:

Switching Mode	Luminaire Code	Power (kWatt)
	R	
1st Pitch	8	12.05
All On	8	12.05

Number of Luminaires Per Arrangement:

Arrangement	Luminaire Code	Power (kWatt)
	R	
Point	4	6.02
Point1	2	3.01
Point2	2	3.01

2.2 Calculation Results

Switching Modes:

Code	Switching Mode	Maintenance factor
1	1st Pitch	0.90
2	All On	1.00

(II)luminance Calculations:

Calculation	Switching Mode	Type	Unit	Ave Min/AveMin/Max		
13 x 7 Grid	1	Surface Illuminance	lux	116	0.47	0.23
5m x 5m Grid	1	Surface Illuminance	lux	115	0.50	0.23
Spillage	2	Surface Illuminance	lux	29.2	0.00	0.00

3. Calculation Results

3.1 13 x 7 Grid: Graphical Table

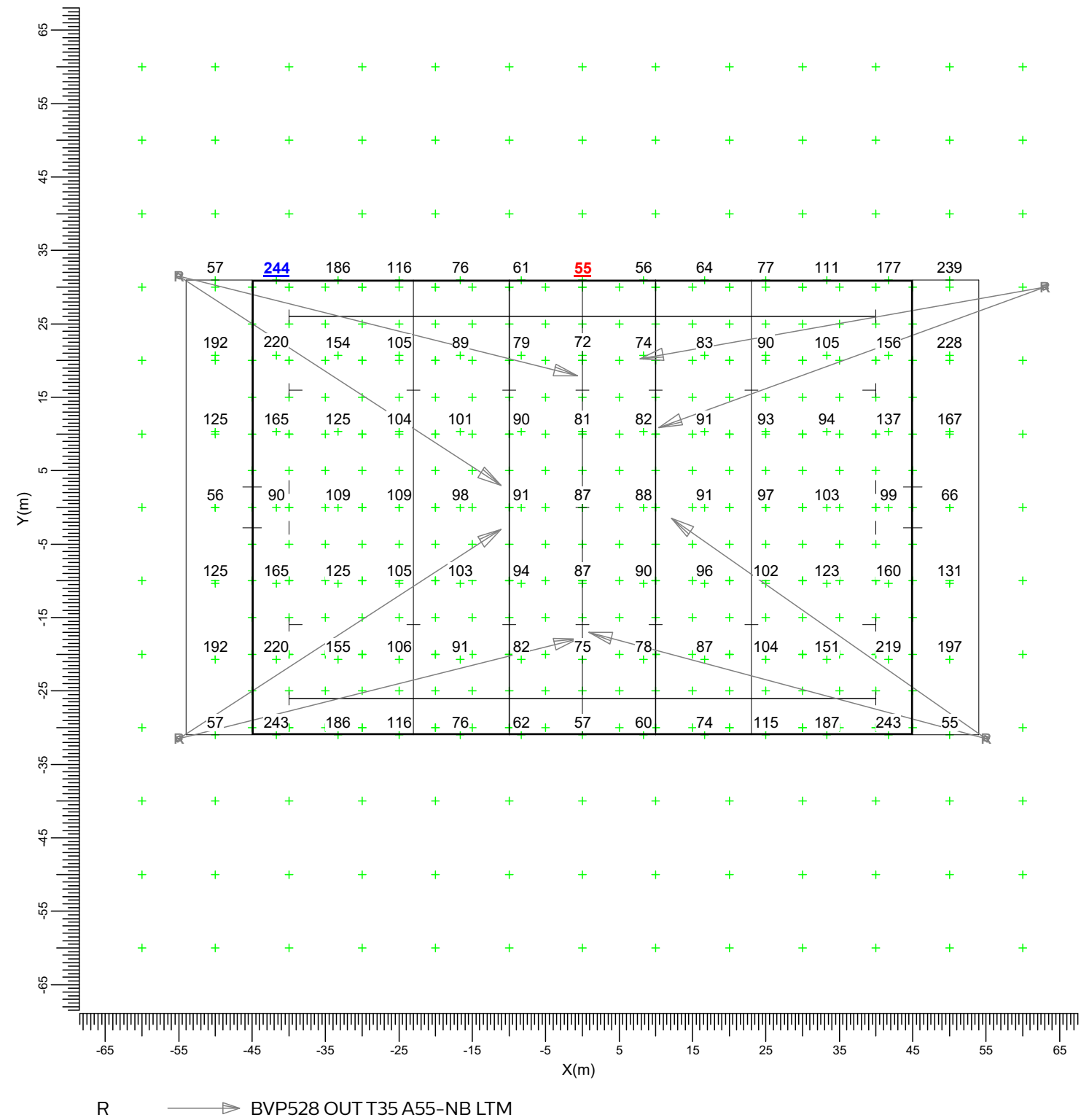
1st Pitch

Grid

: 13 x 7 Grid at Z = -0.00 m

Calculation

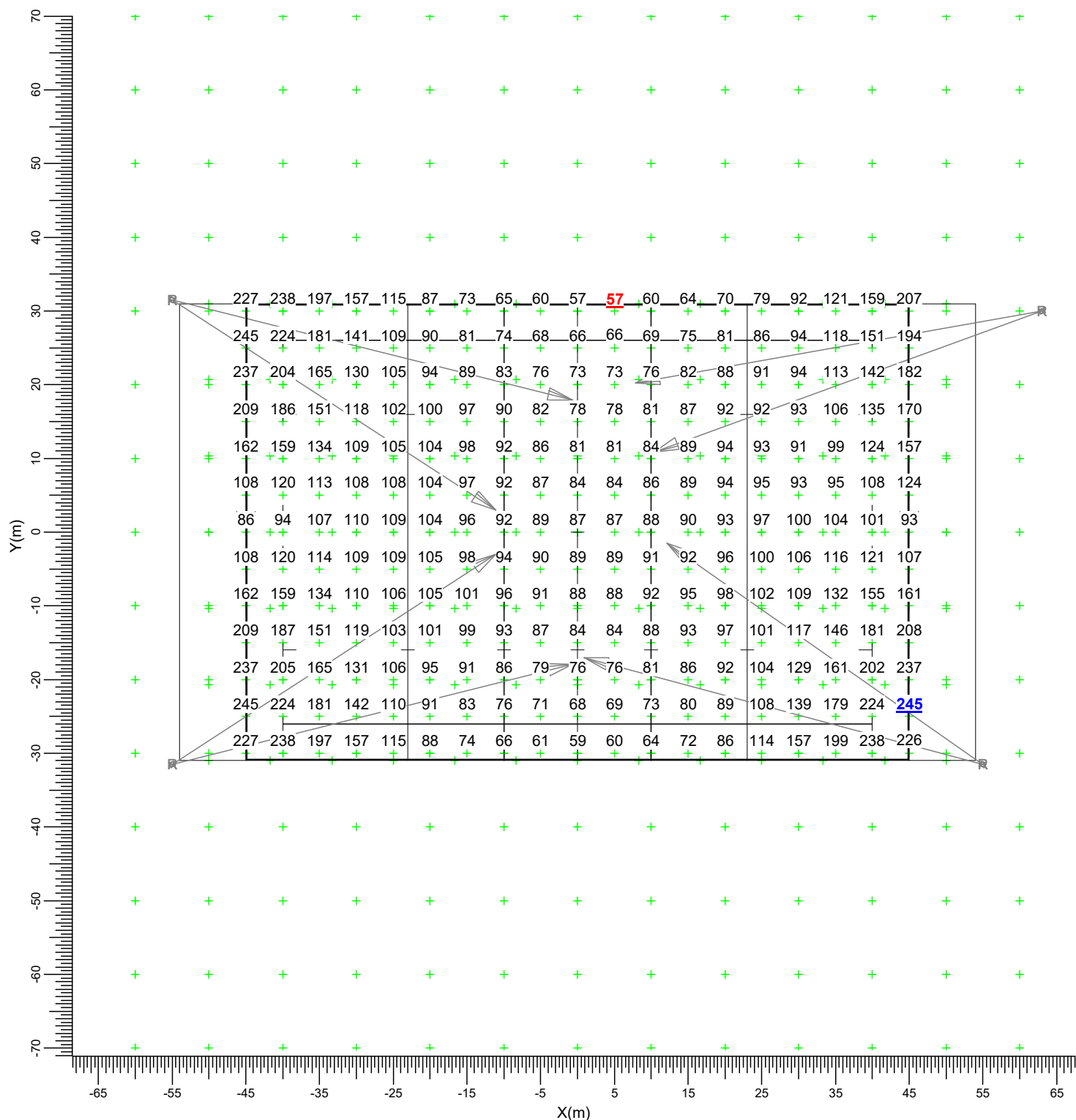
: Surface Illuminance (lux)



3.2 5m x 5m Grid: Graphical Table

1st Pitch

Grid : 5m x 5m Grid at Z = -0.00 m
 Calculation : Surface Illuminance (lux)



R ———> BVP528 OUT T35 A55-NB LTM

Average
115

Min/Ave
0.50

Min/Max
0.23

Project maintenance factor
0.90

Scale
1:750

3.3 Spillage: Graphical Table

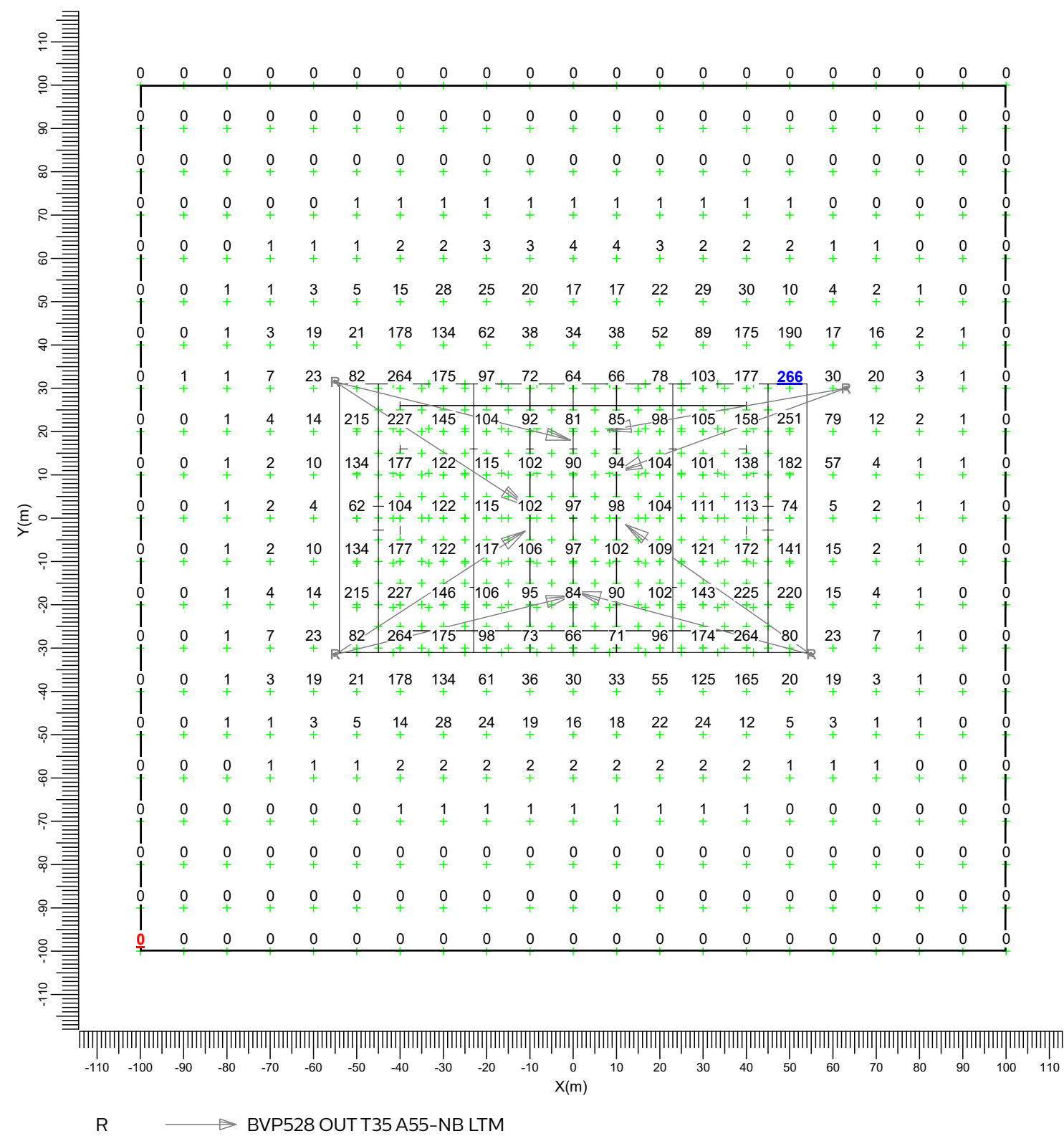
All On

Grid

: Spillage at Z = -0.00 m

Calculation

: Surface Illuminance (lux)



3.4 Spillage: Iso Contour

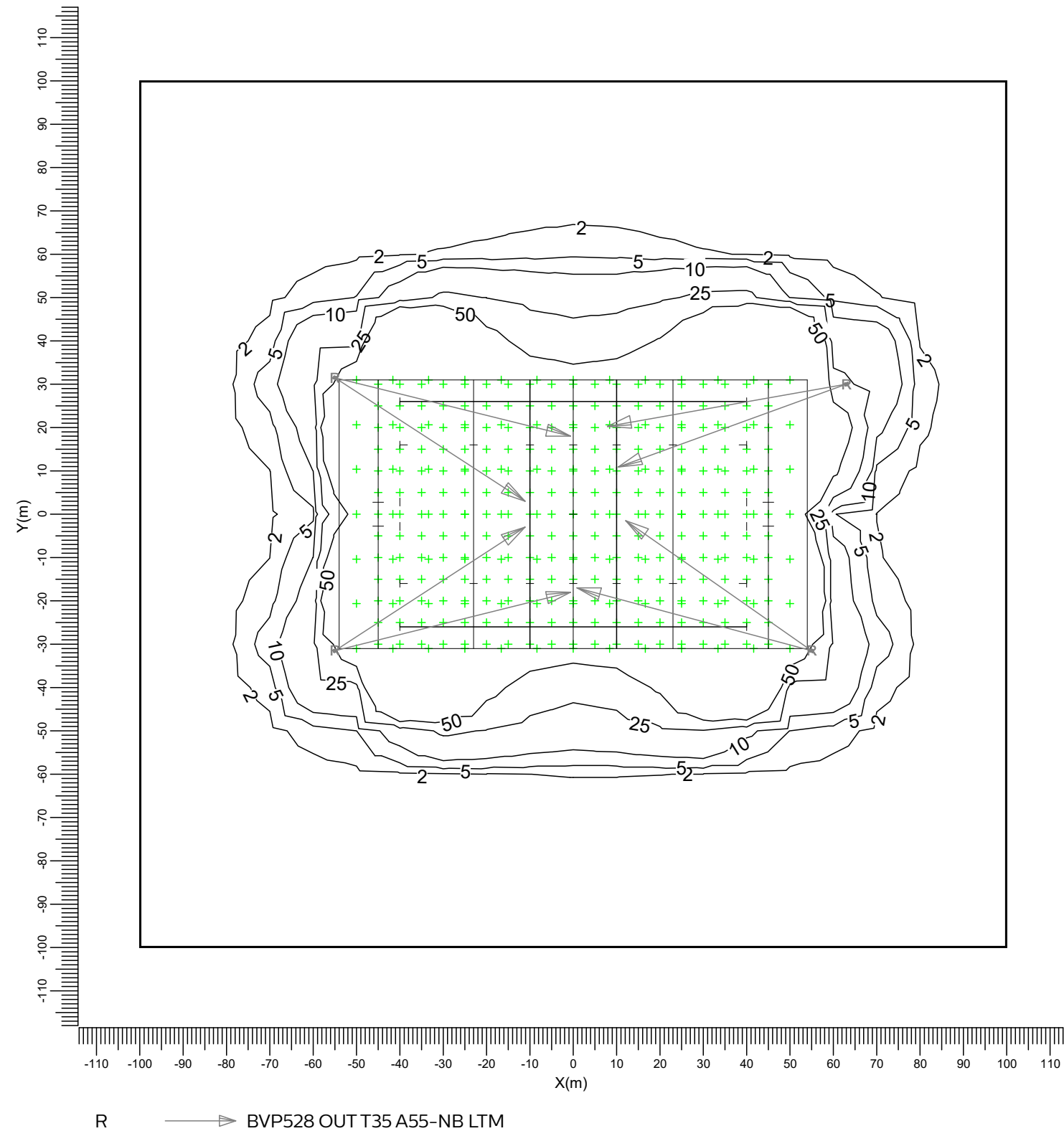
All On

Grid

Calculation

: Spillage at Z = -0.00 m

: Surface Illuminance (lux)



Average	Min/Ave	Min/Max	Project maintenance factor	Scale
29.2	0.00	0.00	1.00	1:1250

3.5 Spillage: Filled Iso Contour

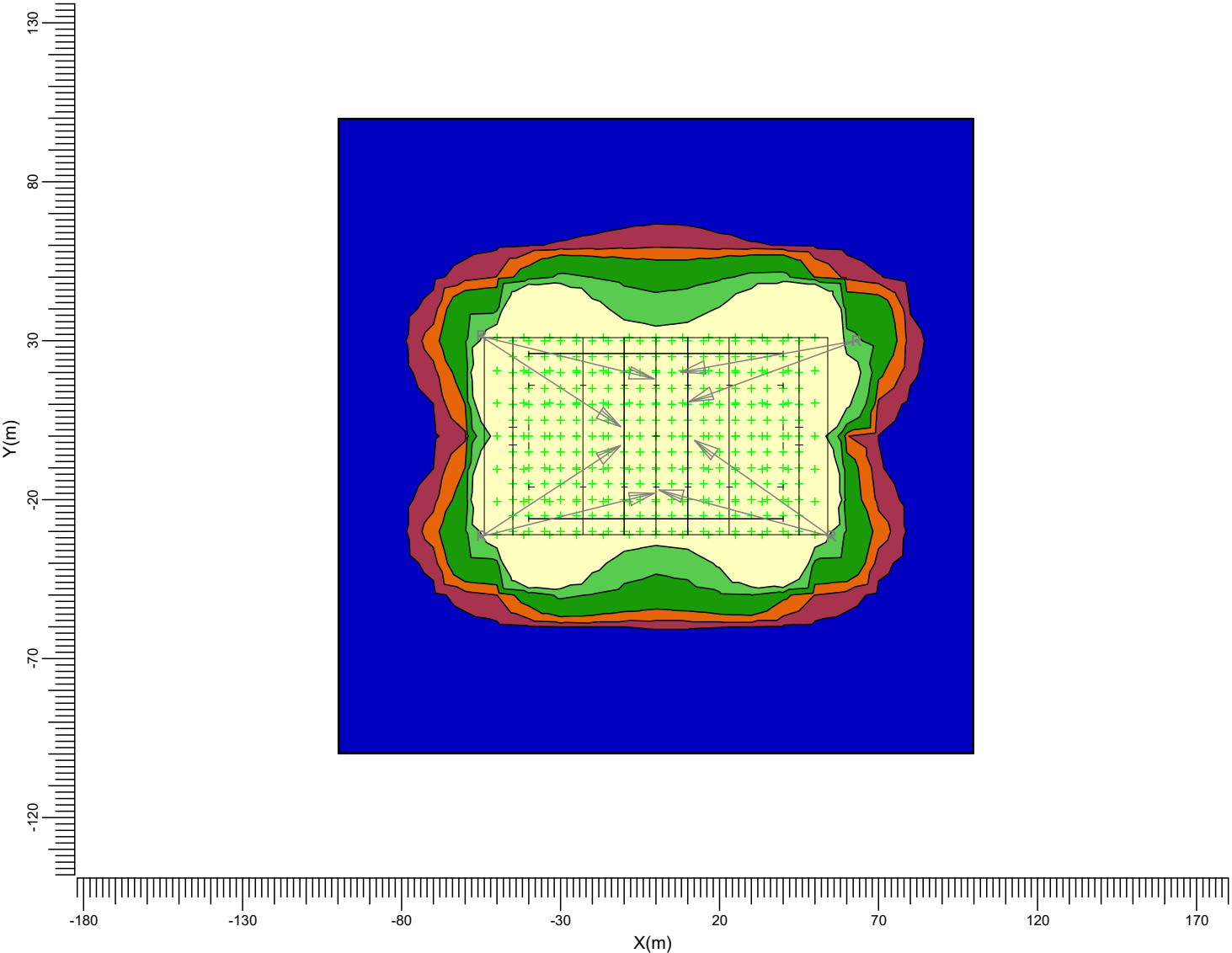
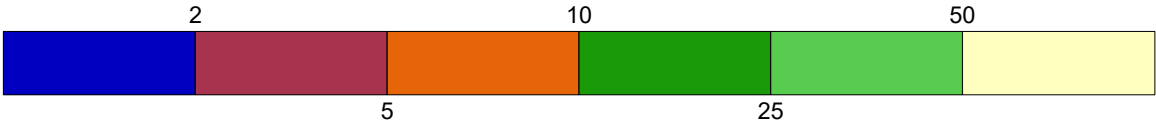
All On

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/740/740 E3/D4I A55-NB LTM

Light output ratios
DLOR : 0.63
ULOR : 0.00
TLOR : 0.63
Ballast : E3/D4I
Lamp flux : 259000 lm
Luminaire wattage : 1505.9 W
Measurement code : LVM20477U1

Note: Luminaire data not from database.

