

Littlehampton Skate Park Option 5

Performance Results

Date: 19-06-2019

Designer: Andy Collins

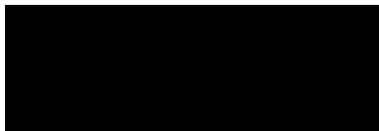
Description: Skate Park Floodlighting Solution Performance requirement :
200 Lux - 0.60 min/ave uniformity.



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.

Highlights Floodlighting Ltd

Unit 3 Manor Farm Court
Manor Road
Lower Sundon
LU3 3NZ



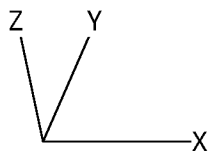
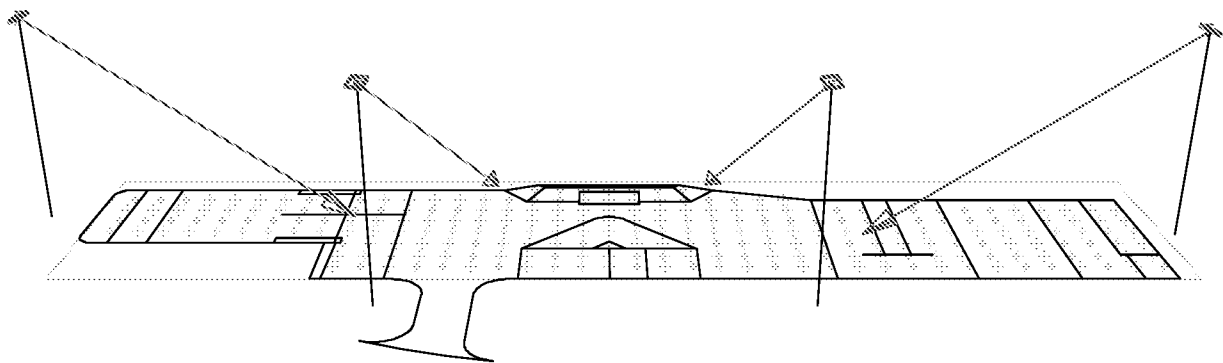
CalcuLuX Area 7.9.0.0

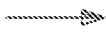
Table of Contents

1.	Project Description	3
1.1	3-D Project Overview	3
1.2	Top Project Overview	4
2.	Summary	5
2.1	Project Luminaires	5
2.2	Calculation Results	5
3.	Calculation Results	6
3.1	Skate Park: Graphical Table	6
3.2	Skate Park: Iso Contour	7
3.3	Skate Park: Filled Iso Contour	8
3.4	Gr Max Skate Park: Graphical Table	9
4.	Luminaire Details	10
4.1	Project Luminaires	10

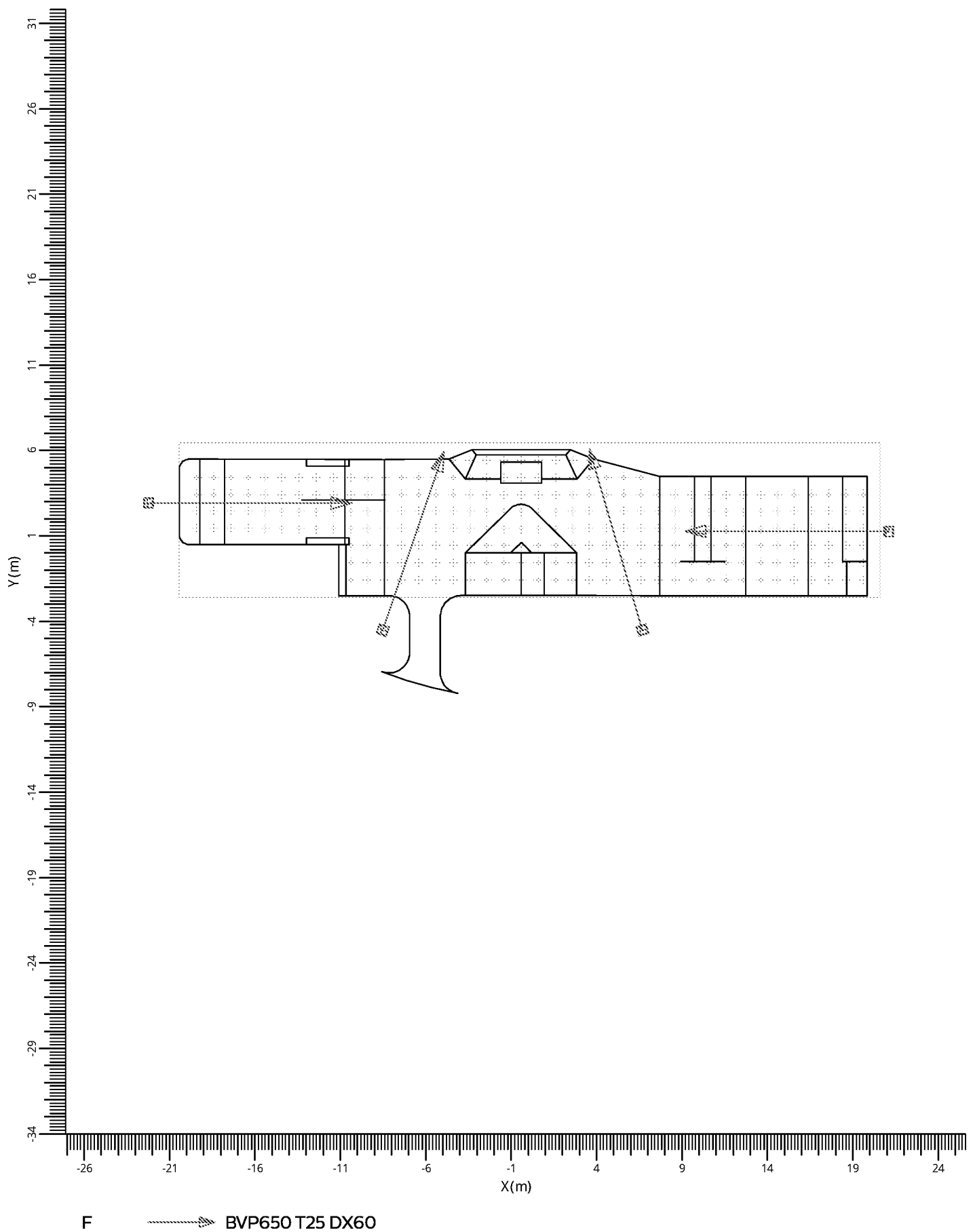
1. Project Description

1.1 3-D Project Overview



F  BVP650 T25 DX60

1.2 Top Project Overview



Scale
1:300

2. Summary

2.1 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
F	4	BVP650 T25 DX60	1 * LED460-4S/740	295.0	1 * 46000

The total installed power: 1.18 (kWatt)

Number of Luminaires Per Switching Mode:

Switching Mode	Luminaire Code	Power (kWatt)
	F	
Skate Park	4	1.18
Spillage	4	1.18

2.2 Calculation Results

Switching Modes:

Code	Switching Mode	Maintenance factor
1	Skate Park	0.90
2	Spillage	1.00

(II)luminance Calculations:

Calculation	Switching Mode	Type	Unit	Ave Min/AveMin/Max		
Skate Park	1	Surface Illuminance	lux	203	0.79	0.57

Glare Rating for Grid of Observers:

Calculation	Switching Mode	Observer Grid	Reference Grid	Reflectance	GR-Max
Gr Max Skate Park	1	Skate Park	Skate Park	0.25	33.8

Obtrusive Light Calculations:

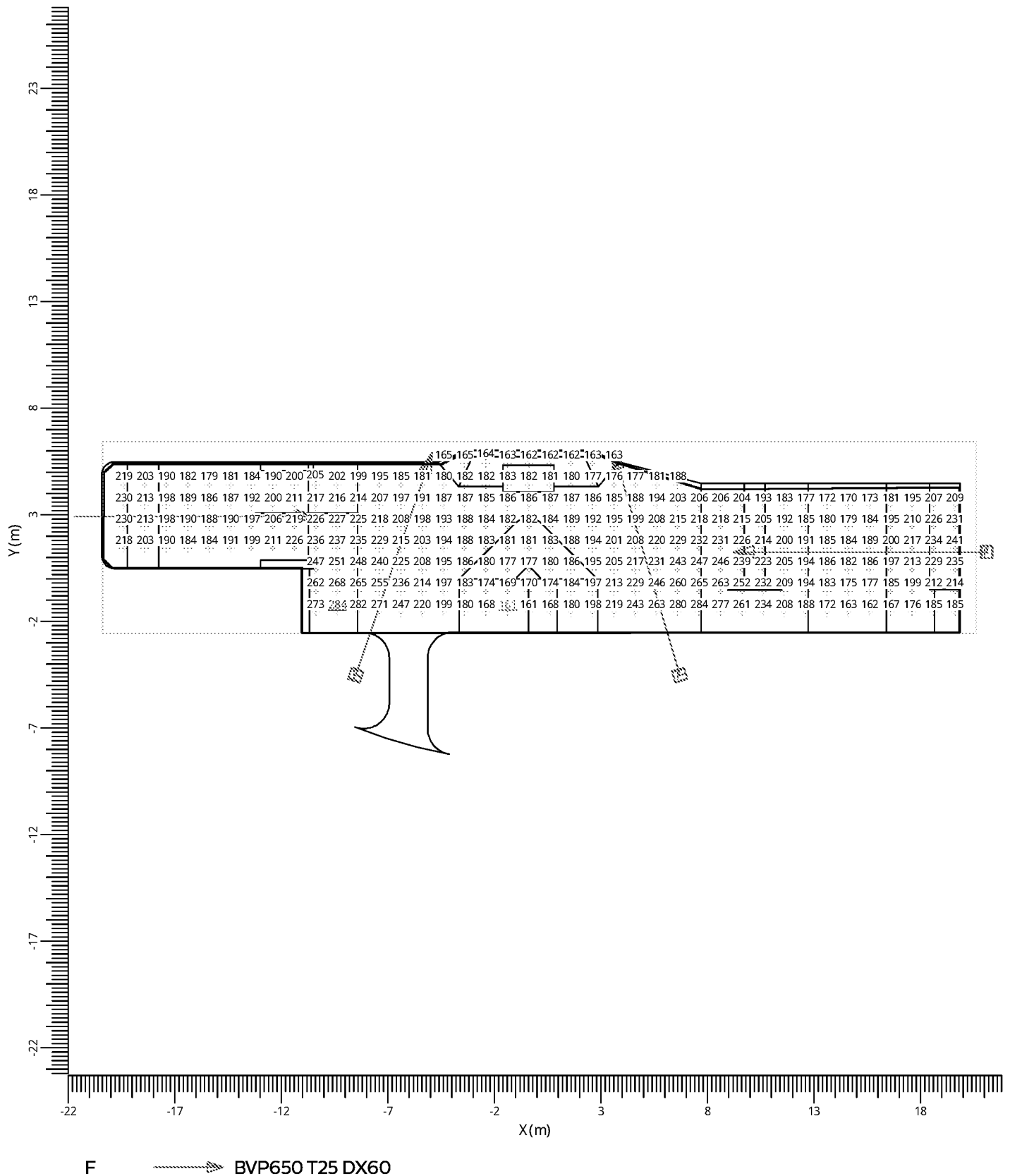
Switching Mode	ULR
1	0.00
2	0.00

3. Calculation Results

3.1 Skate Park: Graphical Table

Skate Park

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



Average
203

Min/Ave
0.79

Min/Max
0.57

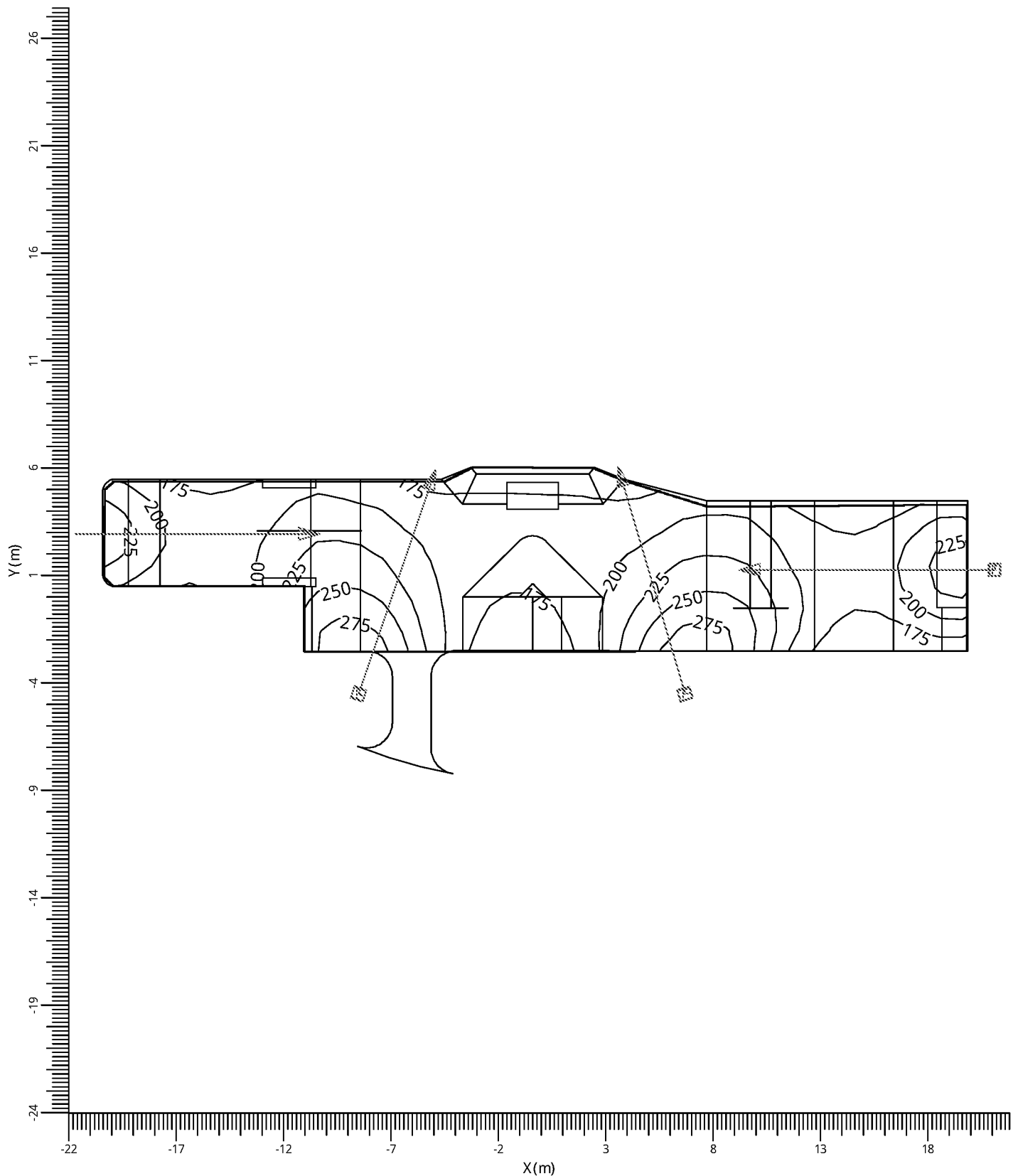
Project maintenance factor
0.90

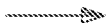
Scale
1:250

3.2 Skate Park: Iso Contour

Skate Park

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



F  BVP650 T25 DX60

Average
203

Min/Ave
0.79

Min/Max
0.57

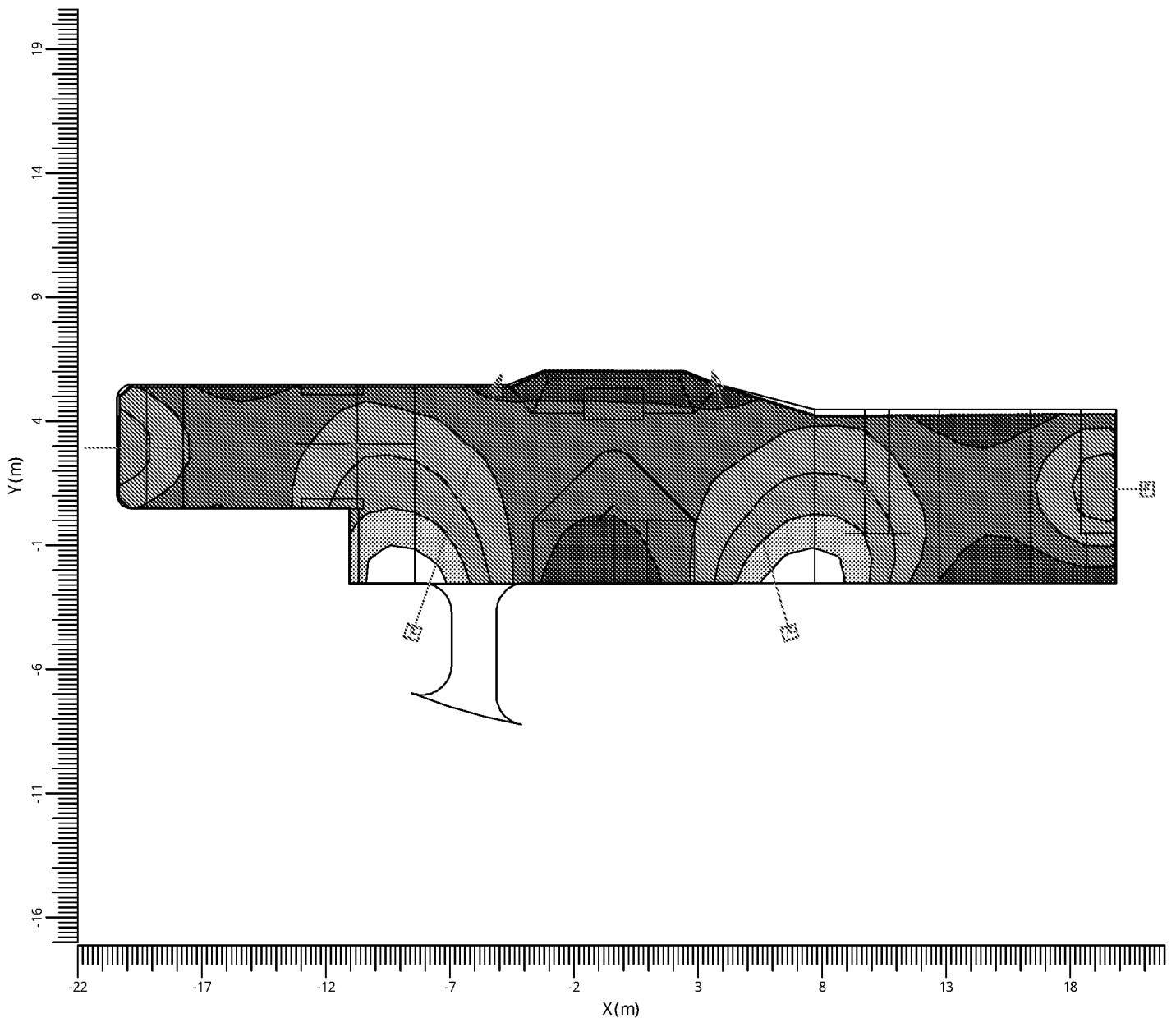
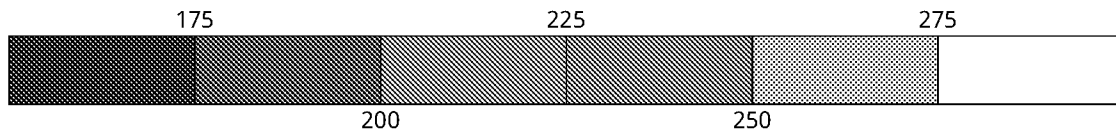
Project maintenance factor
0.90

Scale
1:250

3.3 Skate Park: Filled Iso Contour

Skate Park

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



F → BVP650 T25 DX60

Average
203

Min/Ave
0.79

Min/Max
0.57

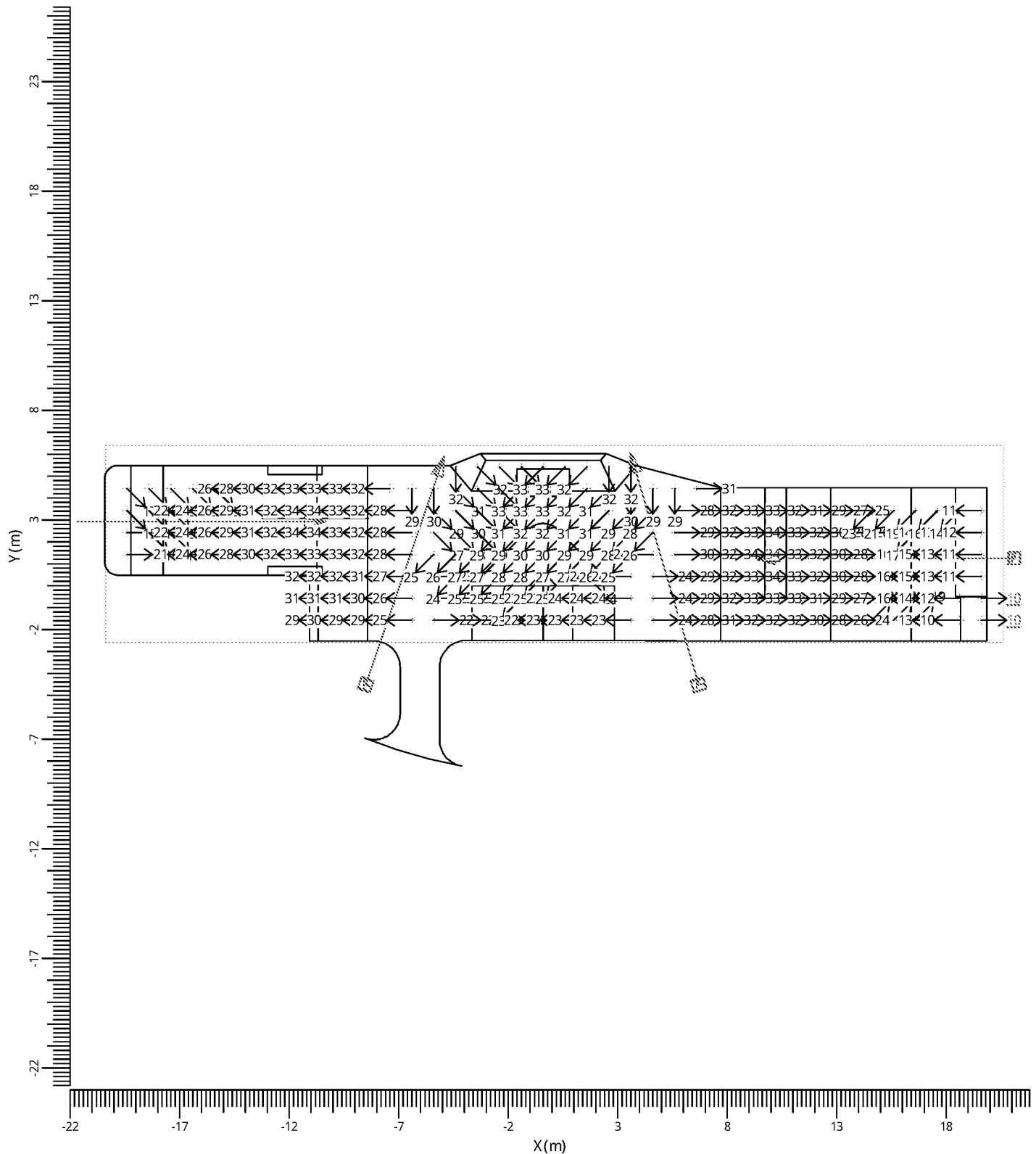
Project maintenance factor
0.90

Scale
1:250

3.4 Gr Max Skate Park: Graphical Table

Skate Park

Grid of Observers : Skate Park
 Calculation : Glare Rating
 Grid for Background Luminance: Skate Park (Reflectance: 0.25)
 Vertical Viewing Angle : -2.0 deg



F BVP650 T25 DX60

Maximum
33.8

Project maintenance factor
0.90

Scale
1:250

4. Luminaire Details

4.1 Project Luminaires

ClearFlood

BVP650 T25 1xLED460-4S/740/- - DX60

Light output ratios

DLOR : 0.89

ULOR : 0.00

TLOR : 0.89

Ballast : -

Lamp flux : 46000 lm

Luminaire wattage : 295.0 W

Measurement code : LVE177041A

Note: Luminaire data not from database.

