

Littlehampton Skate Park Option 2

Performance Results

Date: 12-09-2018

Designer: Andy Collins

Description: 4 Philips ClearFlood 295w LED luminaires mounted on 4 lighting columns 8.00m high.

Area size 40m by 8m

Total Installed Power = 1.18 Kw

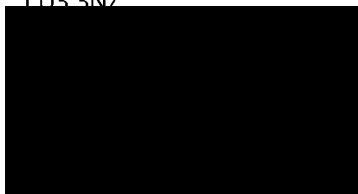
230v power supply required

Project Maintenance Factor: 0.90

Upward Light Ratio (ULR) is 0.00

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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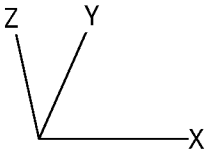
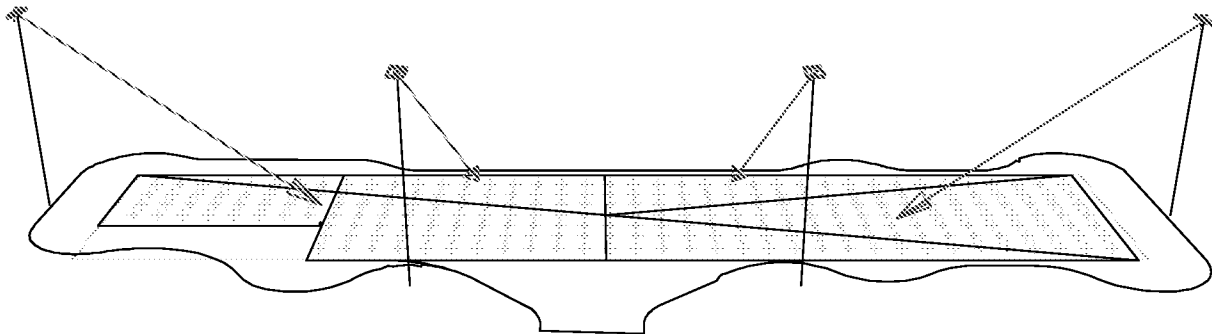


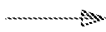
CalcuLuX Area 7.7.2.0

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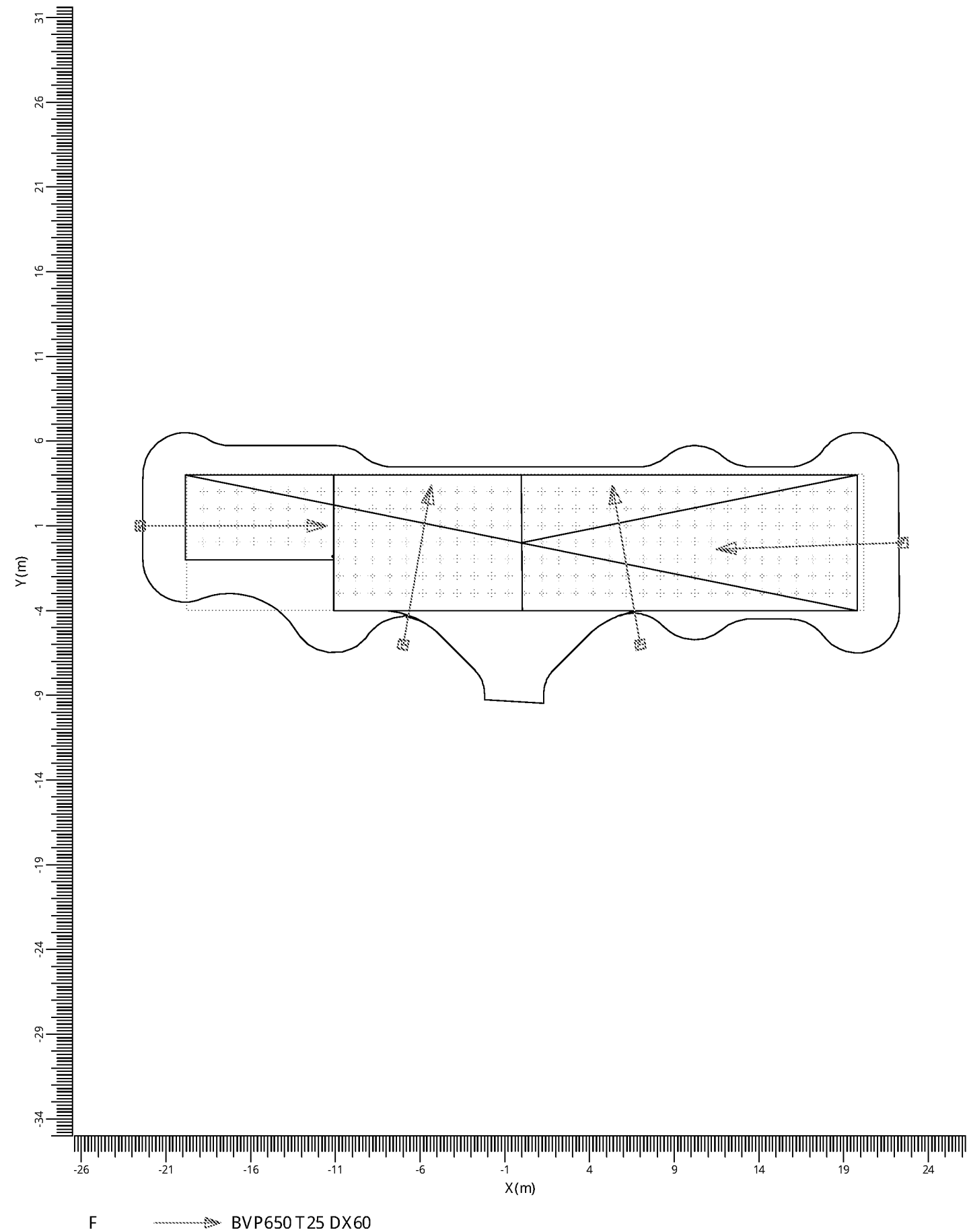
1. Project Description

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 *LED460-45/740	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

Number of Luminaires Per Arrangement

Arrangement	Luminaire Code	Power (kWatt)
	F	
Centres	2	0.59
Left	1	0.29
Right	1	0.29

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/Ave	Min/Max
Skate Park	1	Surface Illuminance	lux	201	0.81	0.64

Glare Rating for Grid of Observers:

Calculation	Switching Mode	Observer Grid	Reference Grid	Reflectance	GR-Max
Gr Max	1	Skate Park	Skate Park	0.25	33.3

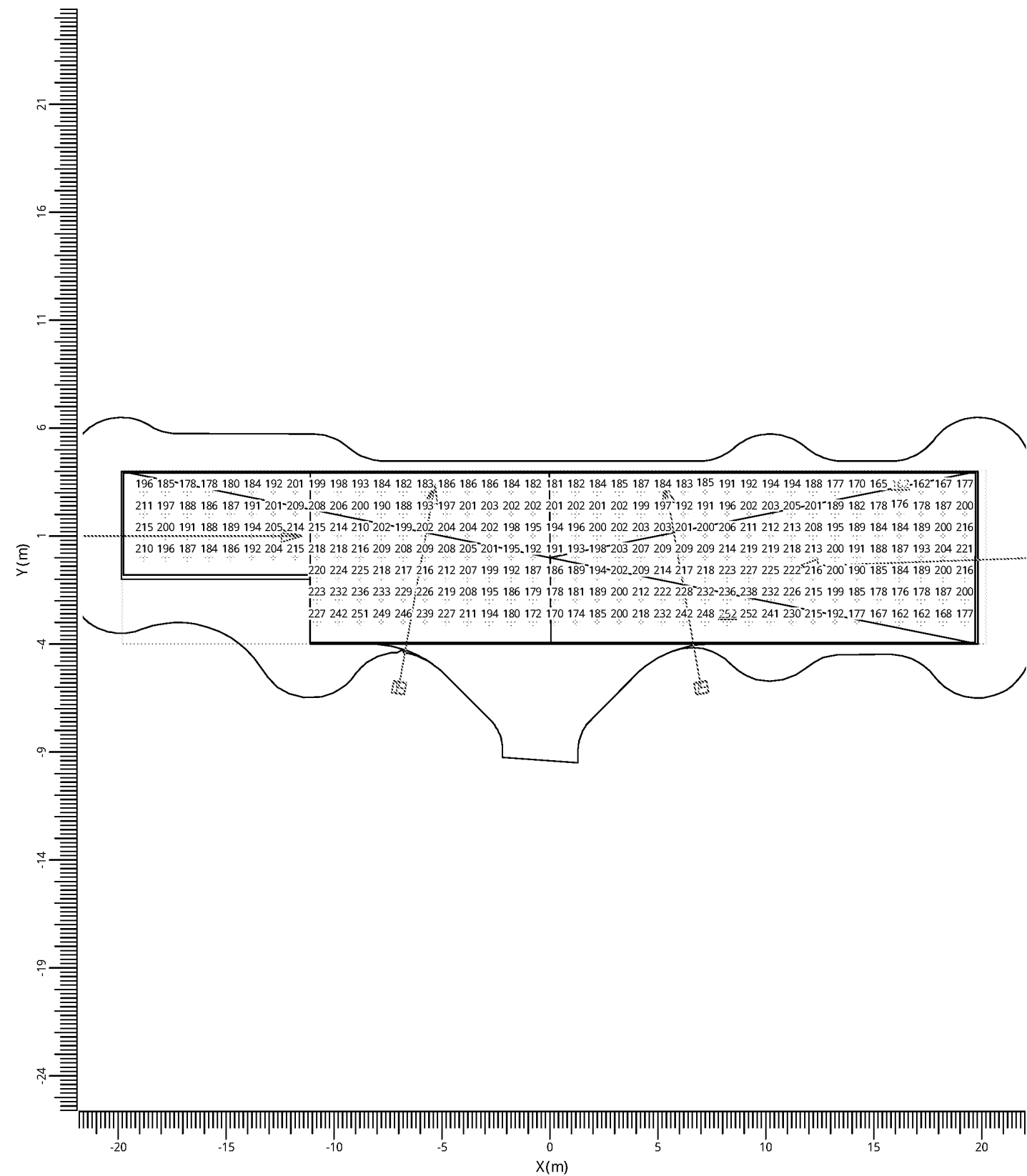
Obtrusive Light Calculations:

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)



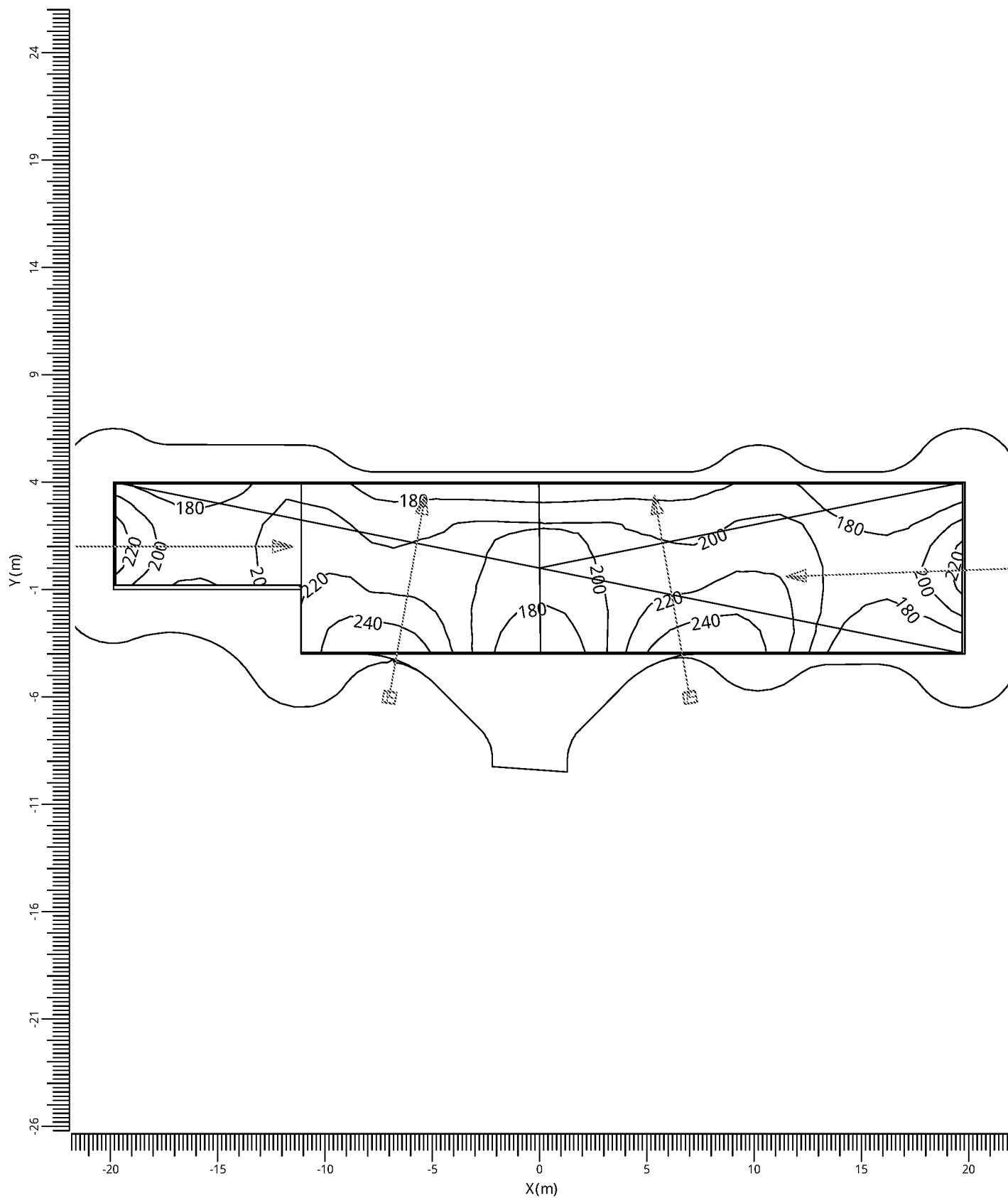
F BVP650 T25 DX60

Average	Min/Ave	Min/Max	Project maintenance factor	Scale
201	0.81	0.64	0.90	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
201

Min/Ave
0.81

Min/Max
0.64

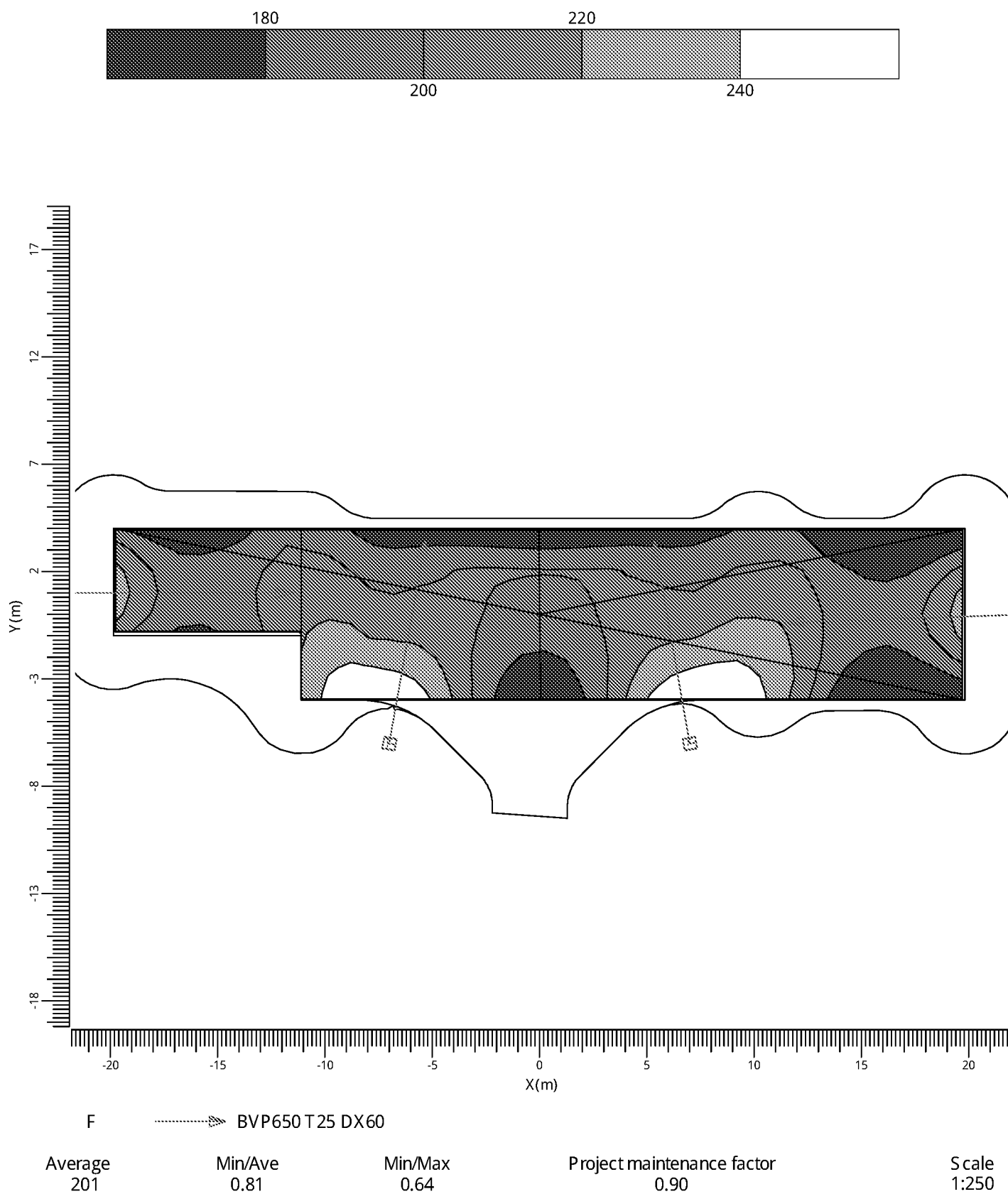
Project maintenance factor
0.90

Scale
1:250

3.3 Skate Park: Filled Iso Contour

Skate Park

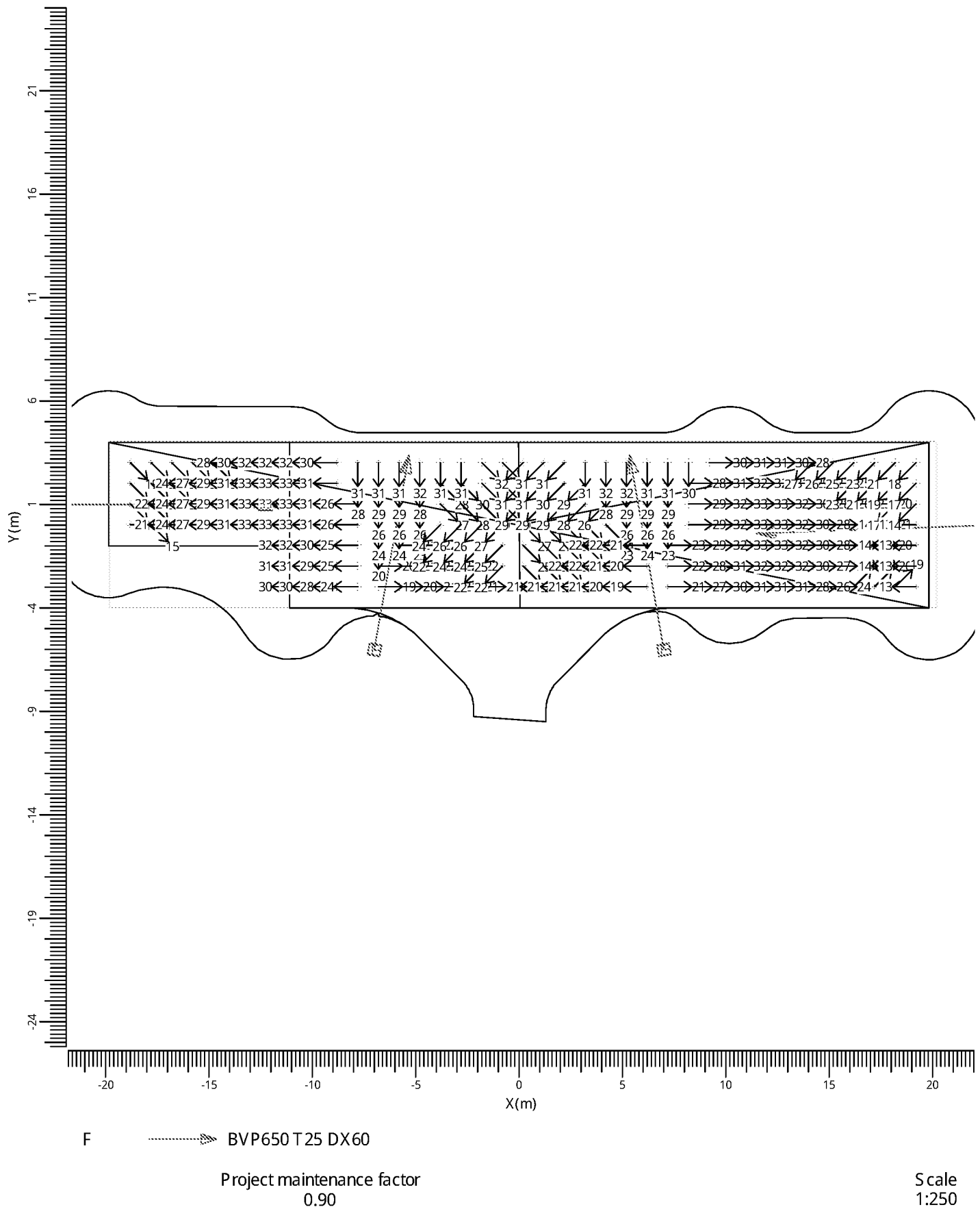
Grid : Skate Park at Z = 0.00 m
 Calculation : Surface Illuminance (lux)



3.4 Gr Max: 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



4. Luminaire Details

4.1 Project Luminaires

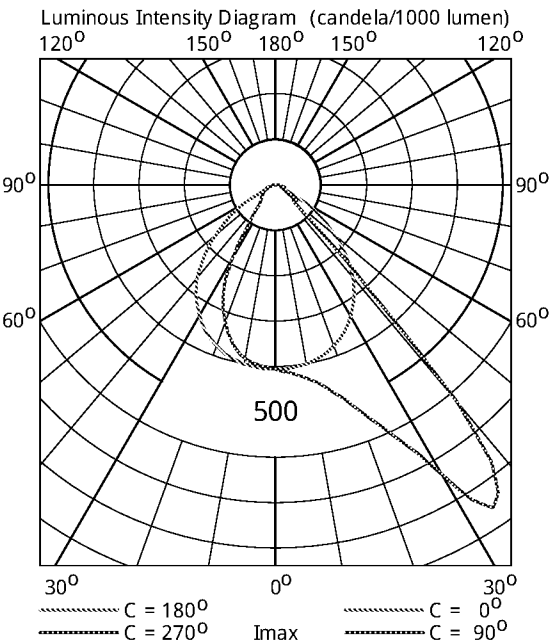
ClearFlood
BVP650 T 25 1xLED460-4S/740/- - DX60

Light output ratios

DLOR	: 0.89
ULOR	: 0.00
TLOR	: 0.89

Ballast : -
Lamp flux : 46000 lm
Luminaire wattage : 295.0 W
Measurement code : LVE 177041A

Note: Luminaire data not from database.



Littlehampton Skate Park Option 2

Spillage Charts

Date: 12-09-2018

Designer: Andy Collins

Description: 4 Philips ClearFlood 295w LED luminaires
mounted on 4 lighting columns 8.00m high.

Area size 40m by 8m

Total Installed Power = 1.18 Kw

230v power supply required

Project Maintenance Factor: 1.00

Upward Light Ratio (ULR) is 0.00

The light spill shown is not maintained and therefore demonstrates maximum lumen intensity from initial installation.

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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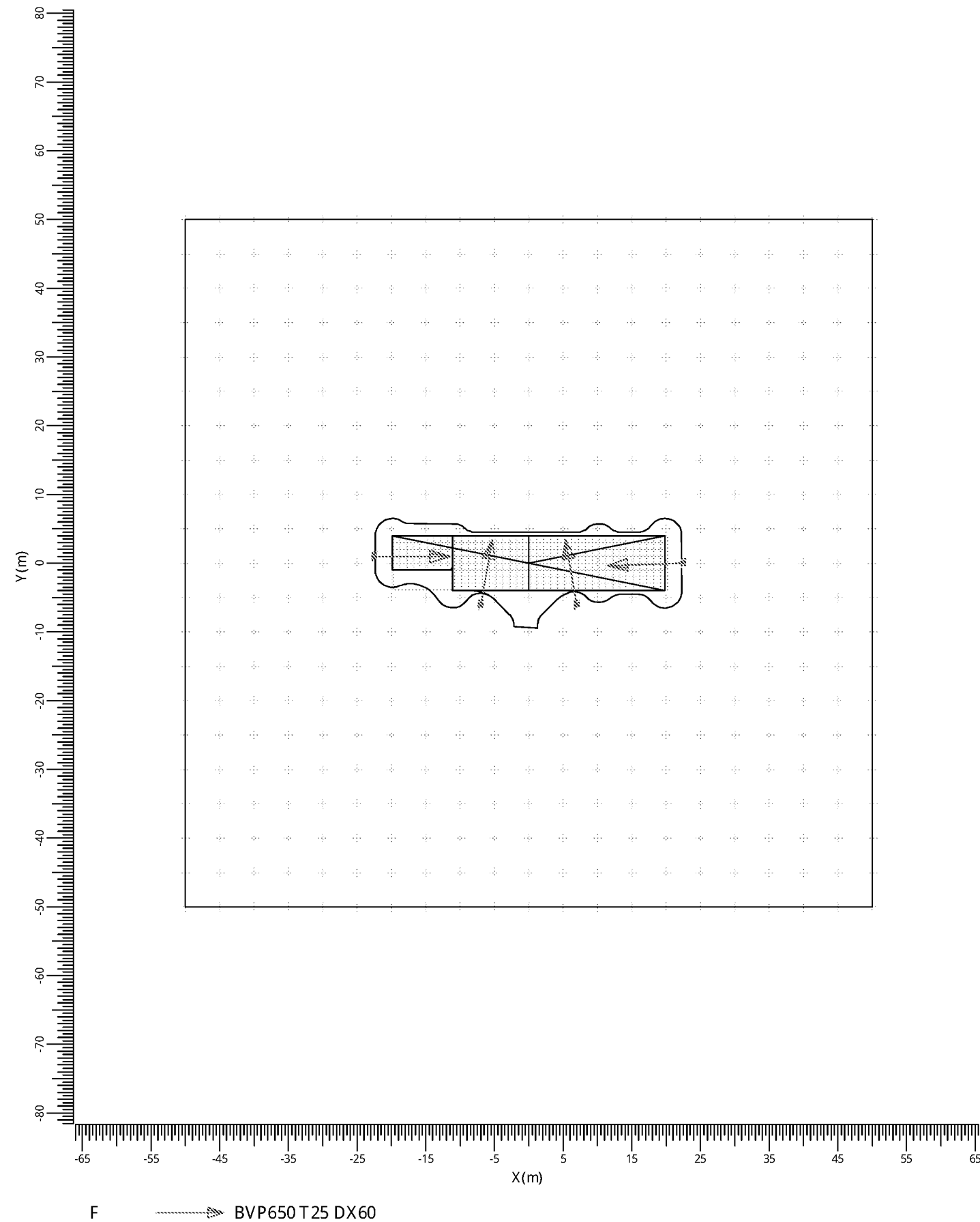
CalcuLuX Area 7.7.2.0

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1. Project Description

1.1 Top Project Overview



Scale
1:750

2. Summary

2.1 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
F	4	BVP650 T25 DX60	1 *LED460-45/740	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

Number of Luminaires Per Arrangement

Arrangement	Luminaire Code	Power (kWatt)
	F	
Centres	2	0.59
Left	1	0.29
Right	1	0.29

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/Ave	Min/Max
Spillage	2	Surface Illuminance	lux	14.6	0.00	0.00

Obtrusive Light Calculations:

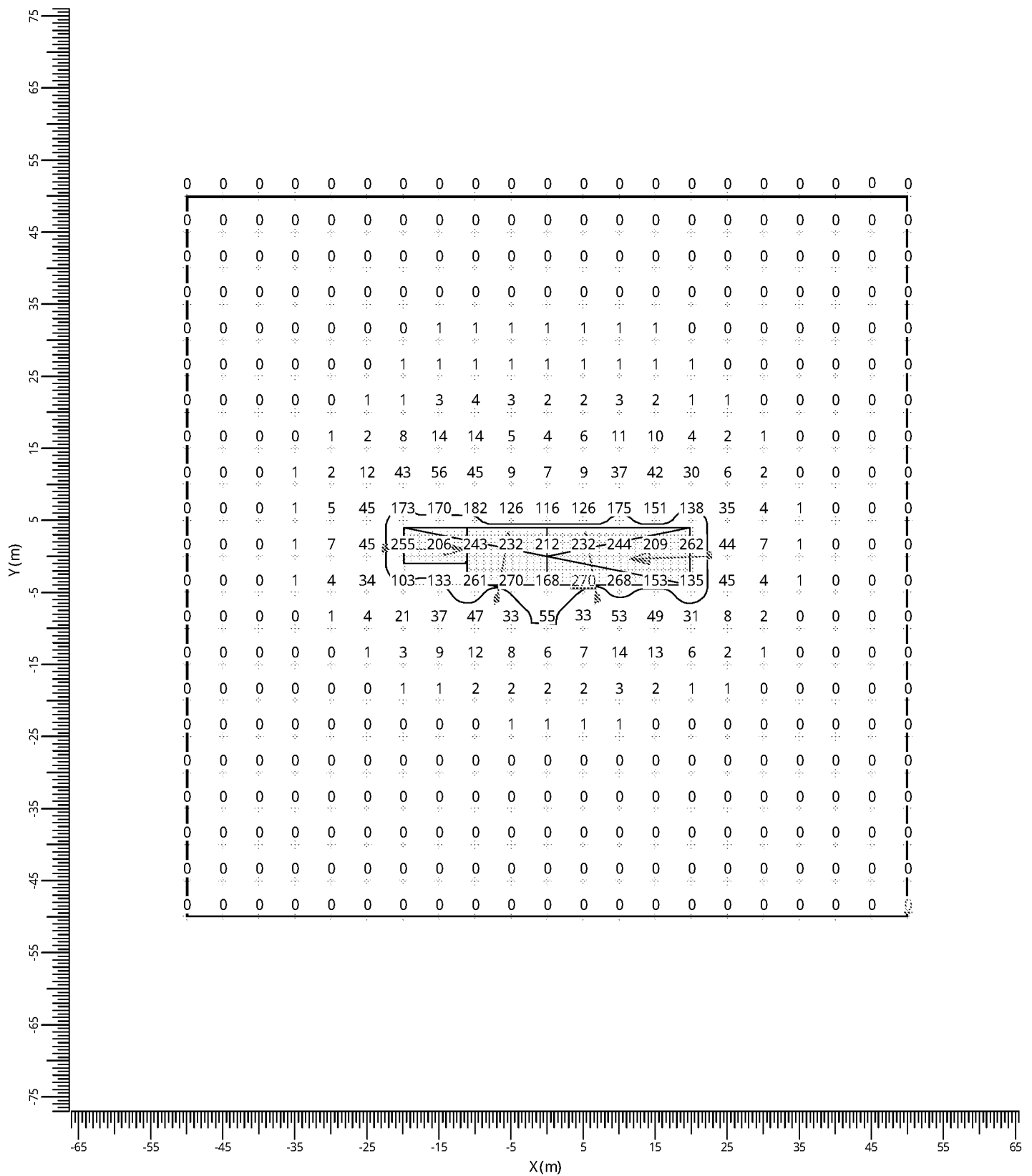
Switching Mode	ULR
1	0.00
2	0.00

3. Calculation Results

3.1 Spillage: Graphical Table

Spillage

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



Average
14.6

Min/Ave
0.00

Min/Max
0.00

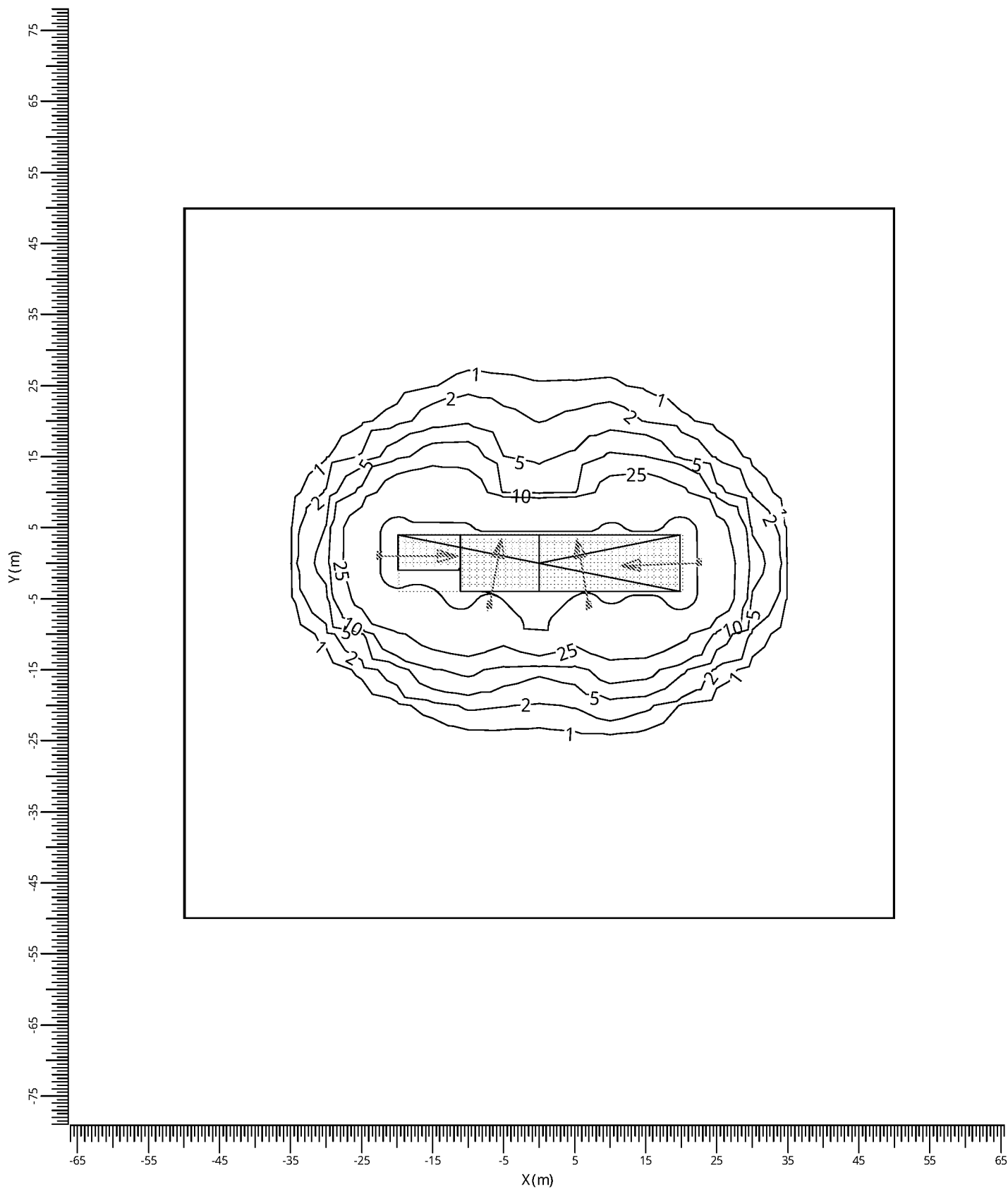
Project maintenance factor
1.00

Scale
1:750

3.2 Spillage: Iso Contour

Spillage

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



F BVP650 T25 DX60

Average
14.6

Min/Ave
0.00

Min/Max
0.00

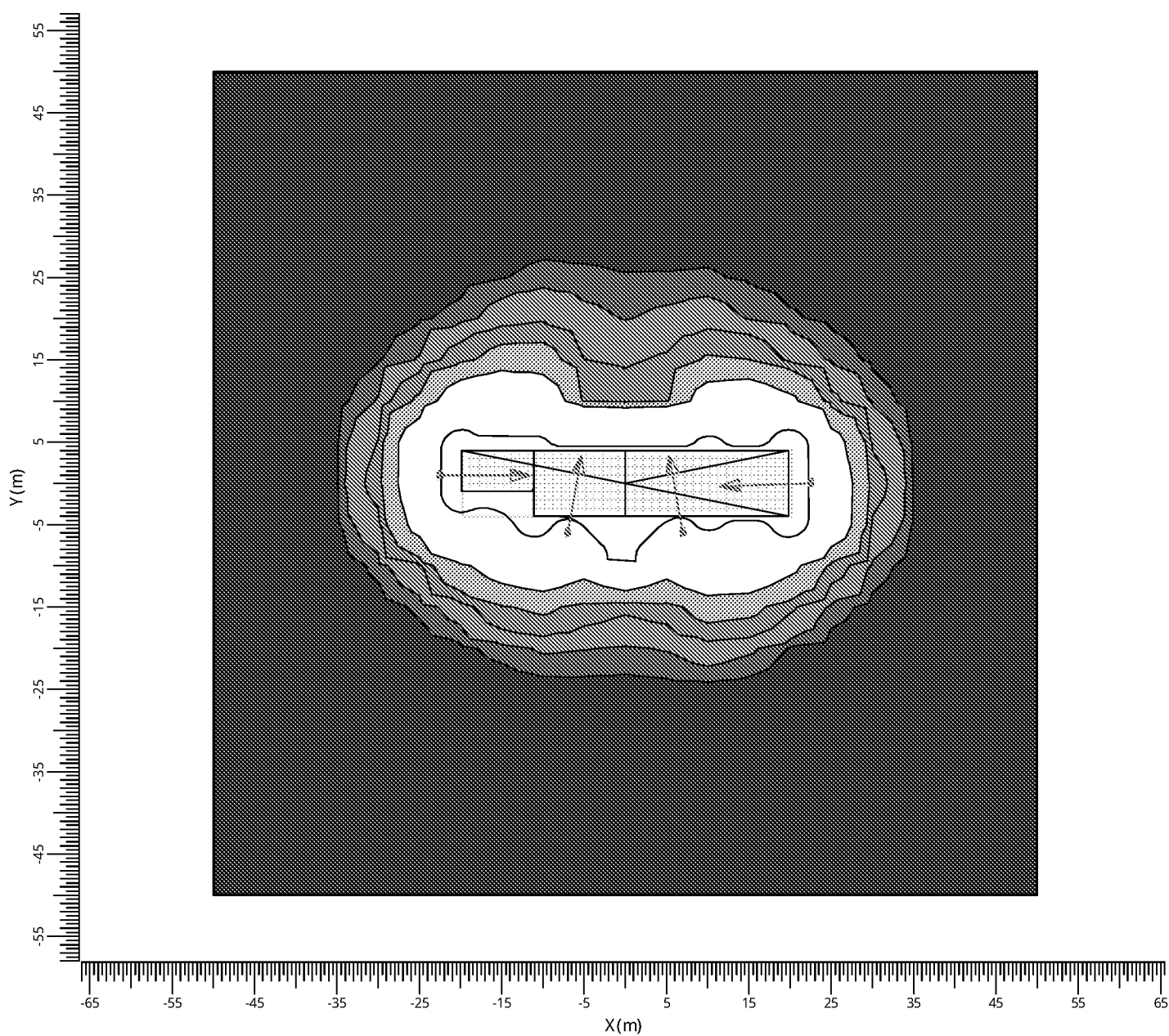
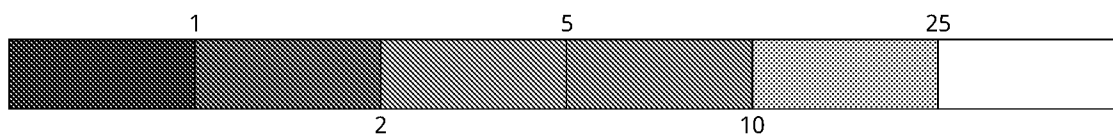
Project maintenance factor
1.00

Scale
1:750

3.3 Spillage: Filled Iso Contour

Spillage

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



F BVP650 T25 DX60

Average
14.6

Min/Ave
0.00

Min/Max
0.00

Project maintenance factor
1.00

Scale
1:750

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

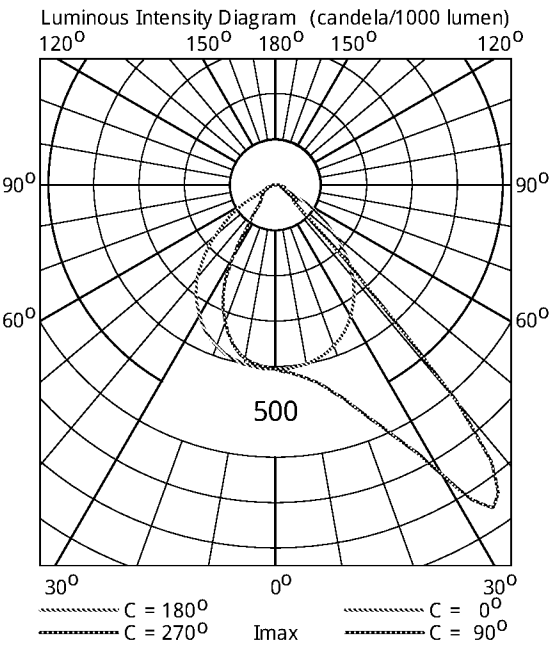
Ballast : -

Lamp flux : 46000 lm

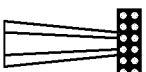
Luminaire wattage : 295.0 W

Measurement code : LVE177041A

Note: Luminaire data not from database.





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Project Name:

Littlehampton Skate Park Option 2 200 Lux Spillage Iso Contours

Design by:
Andy Collins

Date:
12-09-2018

Revision:
0

Drawing No:
LHSP S4

Scale:
1:500@A3

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