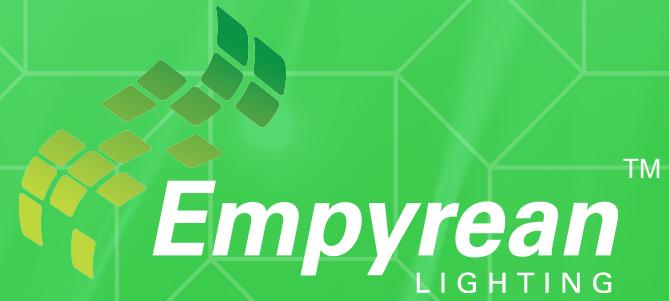


# DIALUX REPORT



## UNDERCOVER CAR PARK

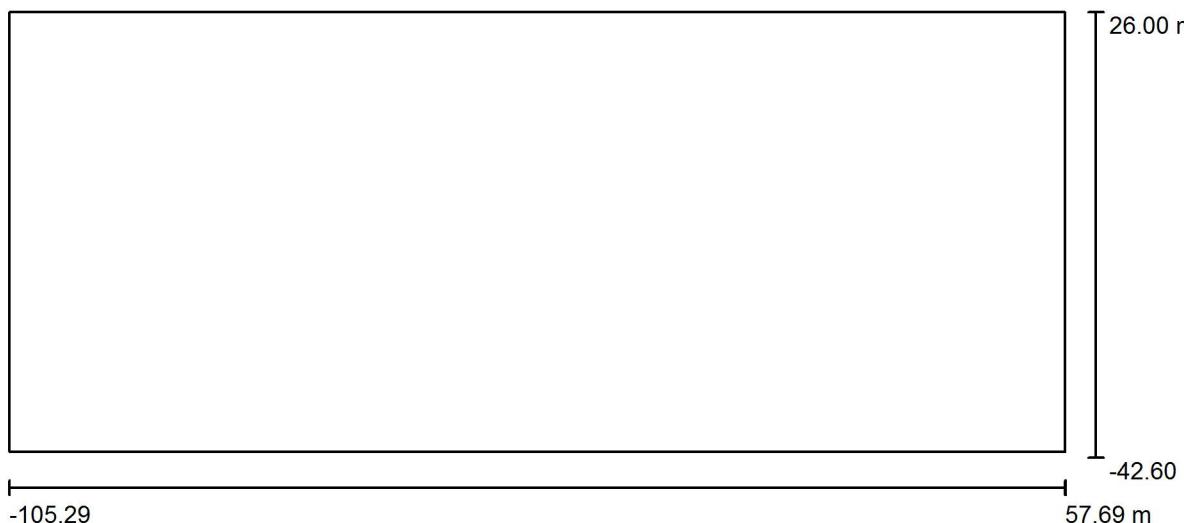
AndromedaXPB Linear 32W with Motion Sensor

- Lights mounted at 2.6m
- Target 40lux average

## Table of contents

Project Cover	1
Table of contents	2
<b>Exterior Scene 1</b>	
Planning data	3
Luminaire parts list	4
Luminaires (layout plan)	5
3D Rendering	6
False Colour Rendering	7
<b>Exterior Surfaces</b>	
<b>Calculation Surface Level 1 - Area 46</b>	
Isolines (E, Perpendicular)	8
Value Chart (E, Perpendicular)	9
<b>Calculation Surface - Parking Bays Middle</b>	
Isolines (E, Perpendicular)	10
Value Chart (E, Perpendicular)	11
<b>Calculation Surface Level 1 - Area 45</b>	
Isolines (E, Perpendicular)	12
Value Chart (E, Perpendicular)	13
<b>Calculation Surface - Parking Bays Low</b>	
Isolines (E, Perpendicular)	14
Value Chart (E, Perpendicular)	15
<b>Calculation Surface Level 1 - Area 47</b>	
Isolines (E, Perpendicular)	16
Value Chart (E, Perpendicular)	17
<b>Calculation Surface Level 1 - Area 55</b>	
Isolines (E, Perpendicular)	18
Value Chart (E, Perpendicular)	19
<b>Calculation Surface Level 1 - Area 56</b>	
Isolines (E, Perpendicular)	20
Value Chart (E, Perpendicular)	21
<b>Calculation Surface Level 1 - Area 57</b>	
Isolines (E, Perpendicular)	22
Value Chart (E, Perpendicular)	23

## Exterior Scene 1 / Planning data



Maintenance factor: 0.70, ULR (Upward Light Ratio): 3.0%

Scale 1:1166

### Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	186	Empyrean Lighting AndromedaXPS-LinearMotion-32W-Lens18 (1.000)	3200	3200	32.0
2	51	OSRAM OLUX WATER-PROOF 2x28W (1.000)	3230	4800	55.5
Total:			759953	Total: 840000	8784.0

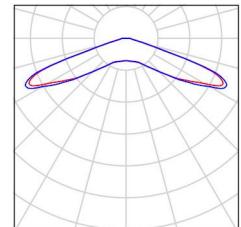


## Exterior Scene 1 / Luminaire parts list

LinearMotion-32W-Lens18  
Article No.:

Luminous flux (Luminaire): 3200 lm  
Luminous flux (Lamps): 3200 lm  
Luminaire Wattage: 32.0 W  
Luminaire classification according to CIE: 100  
CIE flux code: 15 47 92 100 100  
Fitting: 1 x N219B (Correction Factor 1.000).

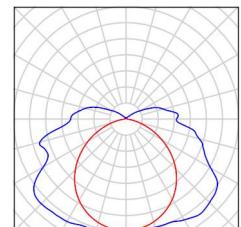
See our luminaire catalog for an image of the luminaire.



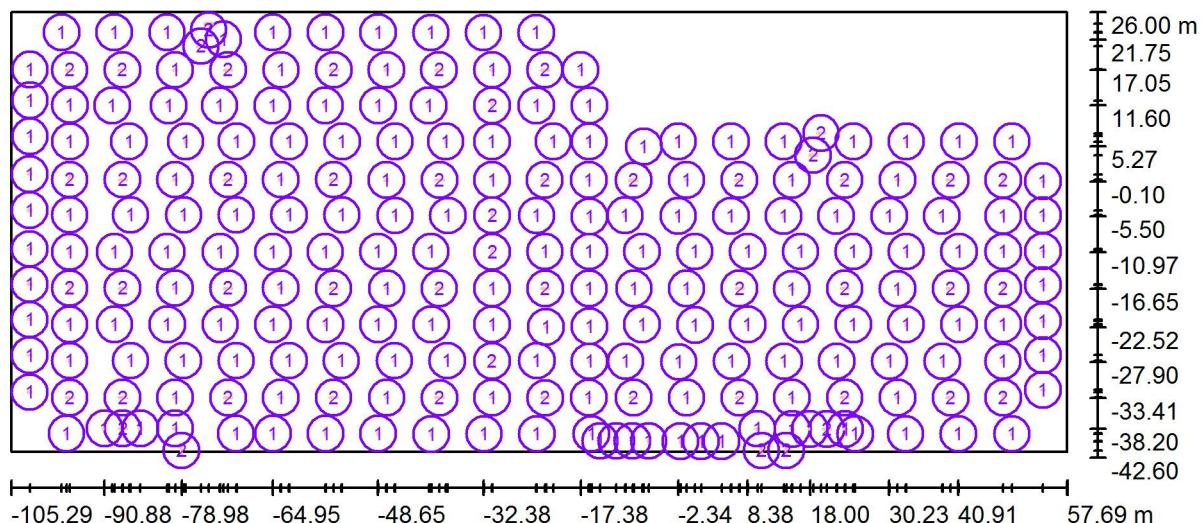
51 Pieces OSRAM OLUX WATER-PROOF 2x28W  
Article No.:

Luminous flux (Luminaire): 3230 lm  
Luminous flux (Lamps): 4800 lm  
Luminaire Wattage: 55.5 W  
Luminaire classification according to CIE: 86  
CIE flux code: 35 66 87 86 67  
Fitting: 2 x T16 28W/865 (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.



## Exterior Scene 1 / Luminaires (layout plan)

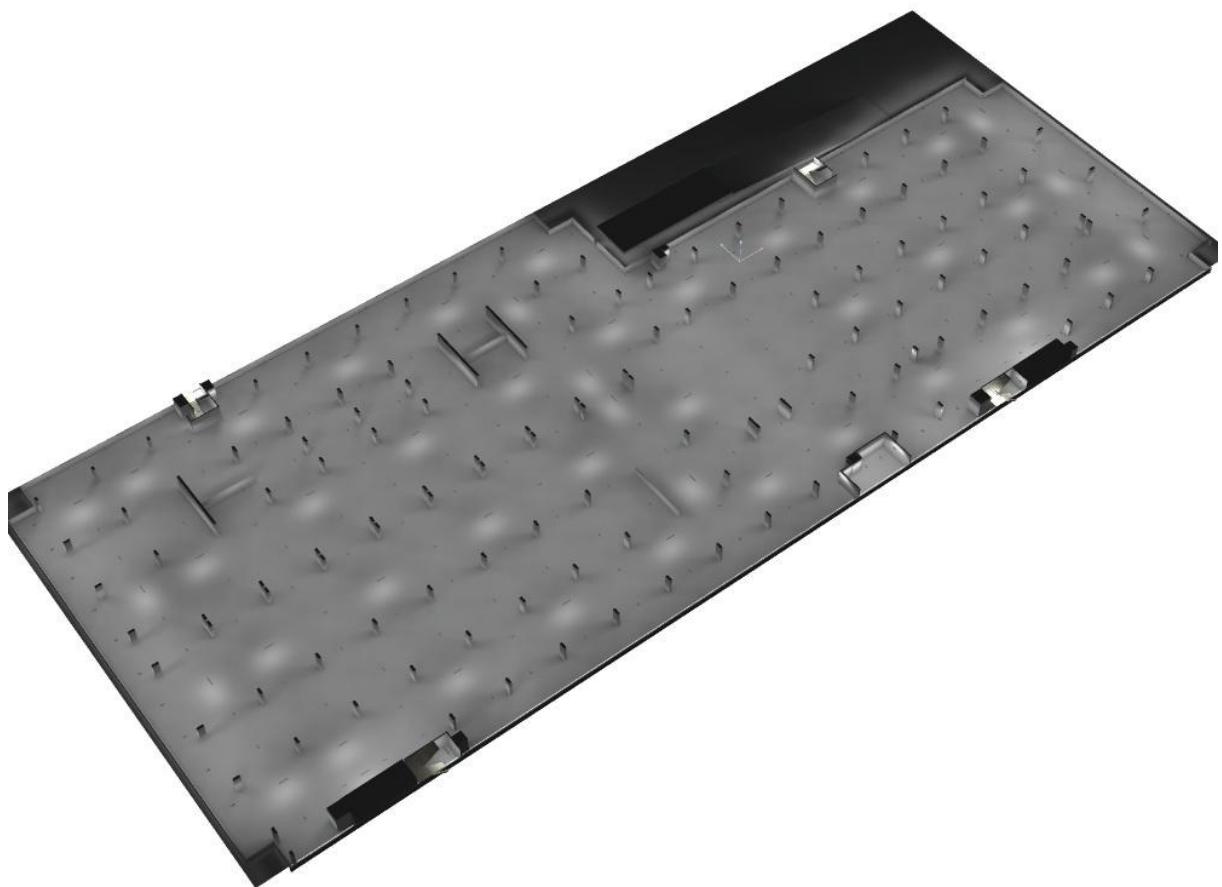


Scale 1 : 1166

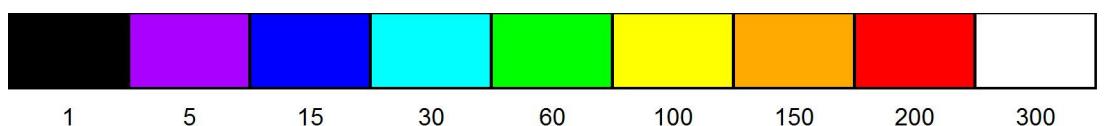
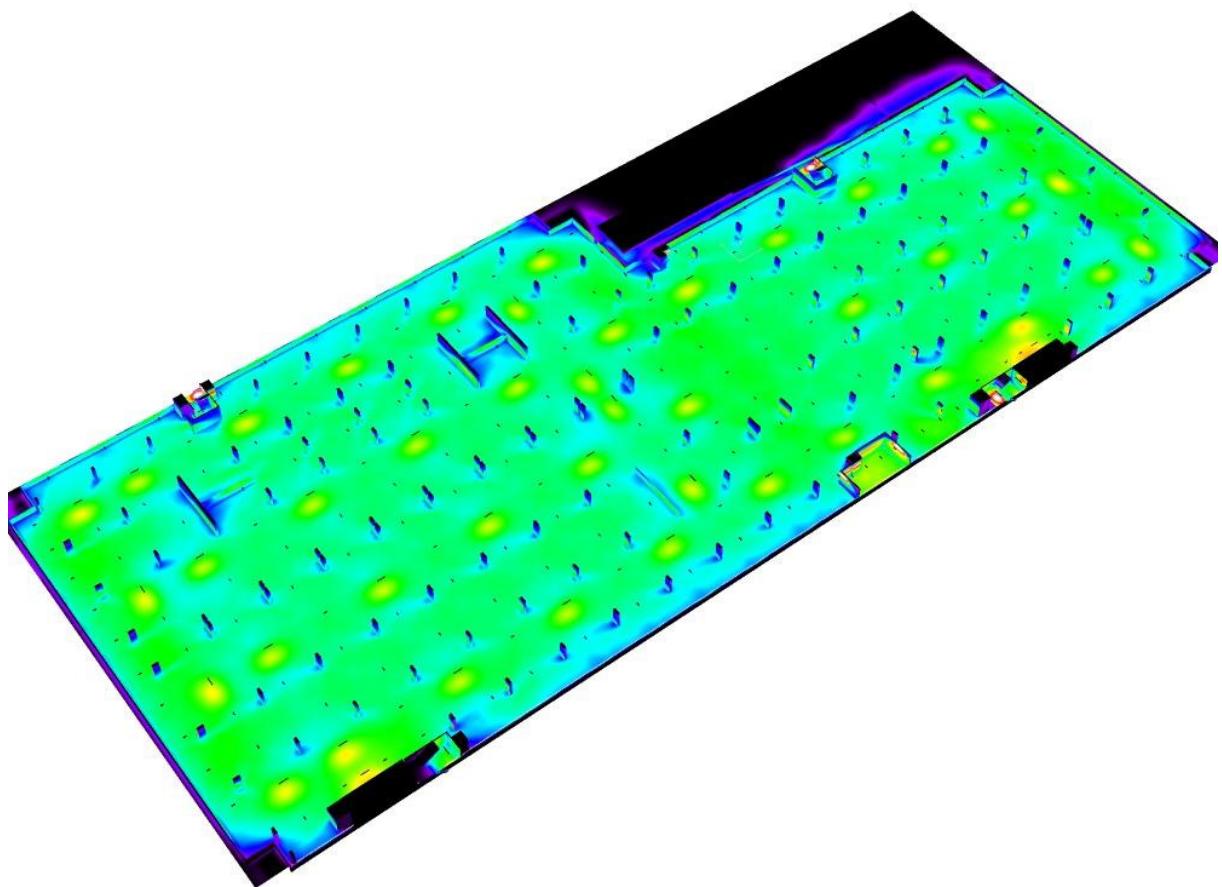
### Luminaire Parts List

No.	Pieces	Designation
1	186	Empyrean Lighting AndromedaXPS-LinearMotion-32W-Lens18
2	51	OSRAM OLUX WATER-PROOF 2x28W

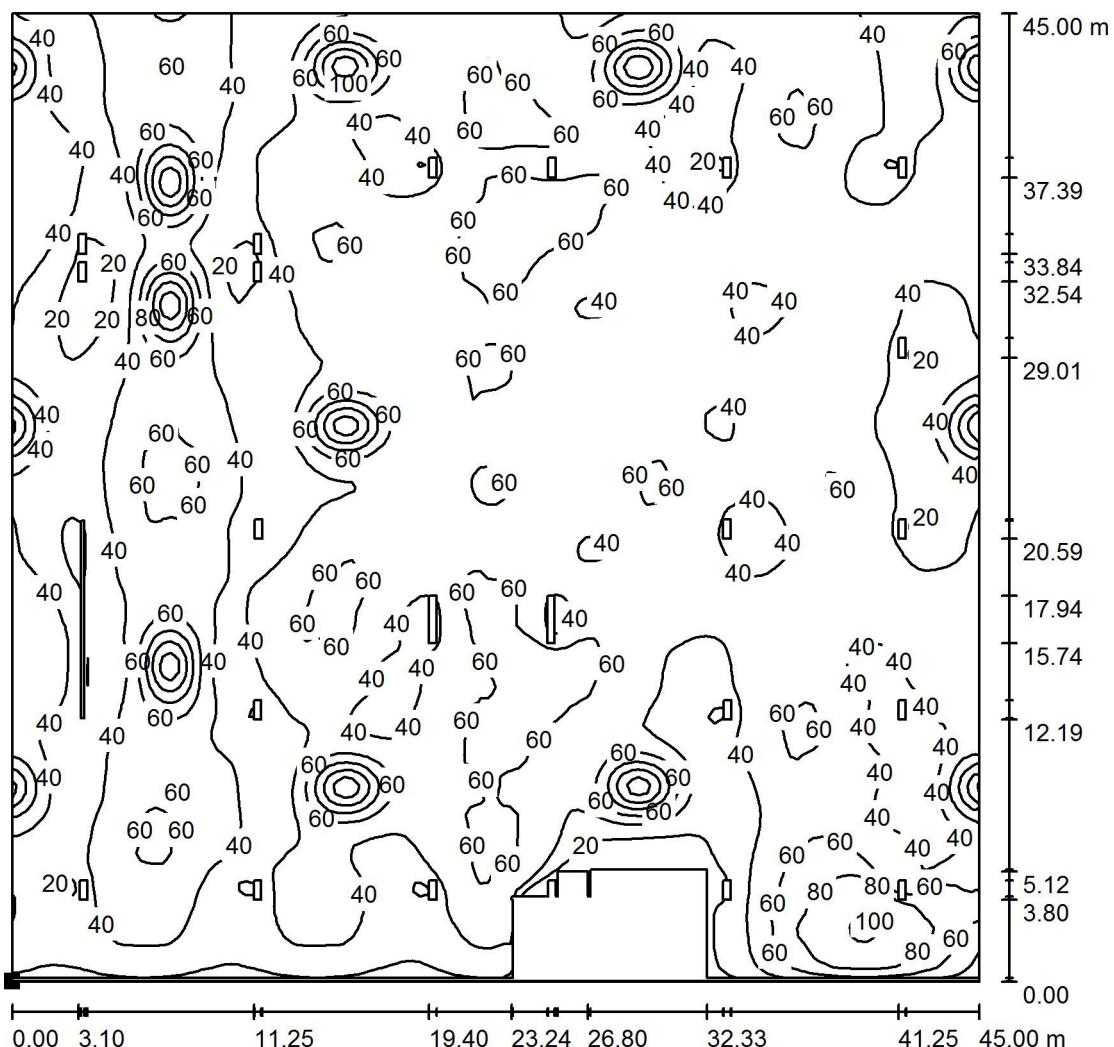
## Exterior Scene 1 / 3D Rendering



## Exterior Scene 1 / False Colour Rendering



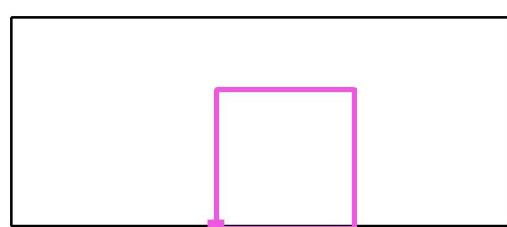
## Exterior Scene 1 / Calculation Surface Level 1 - Area 46 / Isolines (E, Perpendicular)



Position of surface in external scene:

Marked point:

(-38.400 m, -42.439 m, 0.750 m)



Grid: 128 x 128 Points

$E_{av}$  [lx]  
48

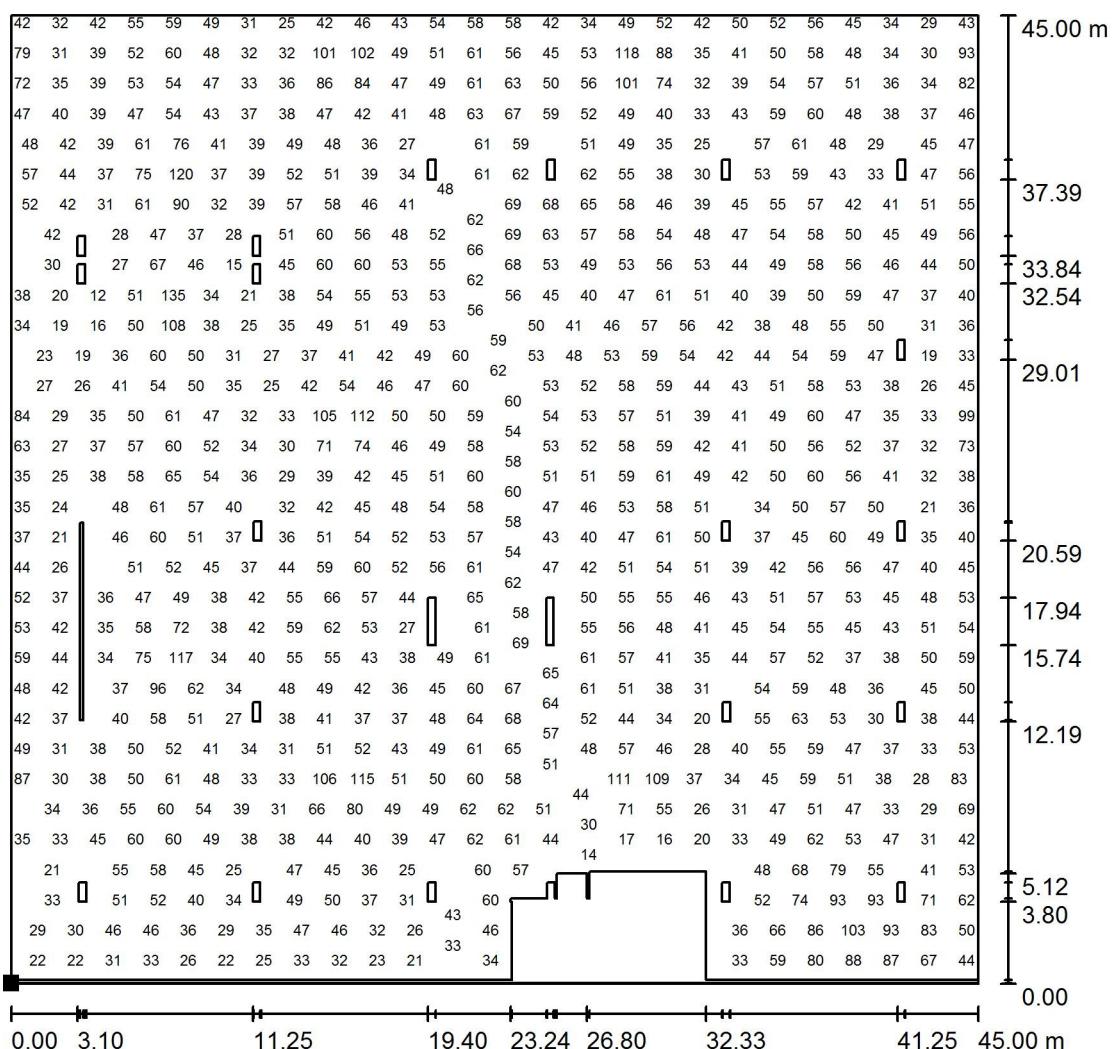
$E_{min}$  [lx]  
1.01

$E_{max}$  [lx]  
144

$u_0$   
0.021

$E_{min} / E_{max}$   
0.007

## Exterior Scene 1 / Calculation Surface Level 1 - Area 46 / Value Chart (E, Perpendicular)



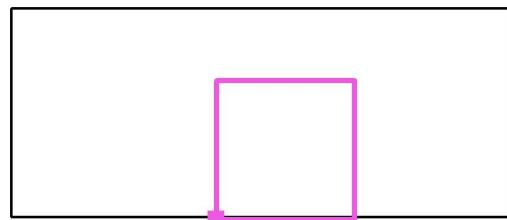
Values in Lux, Scale 1 : 352

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(-38.400 m, -42.439 m, 0.750 m)



Grid: 128 x 128 Points

$E_{av}$  [lx]  
48

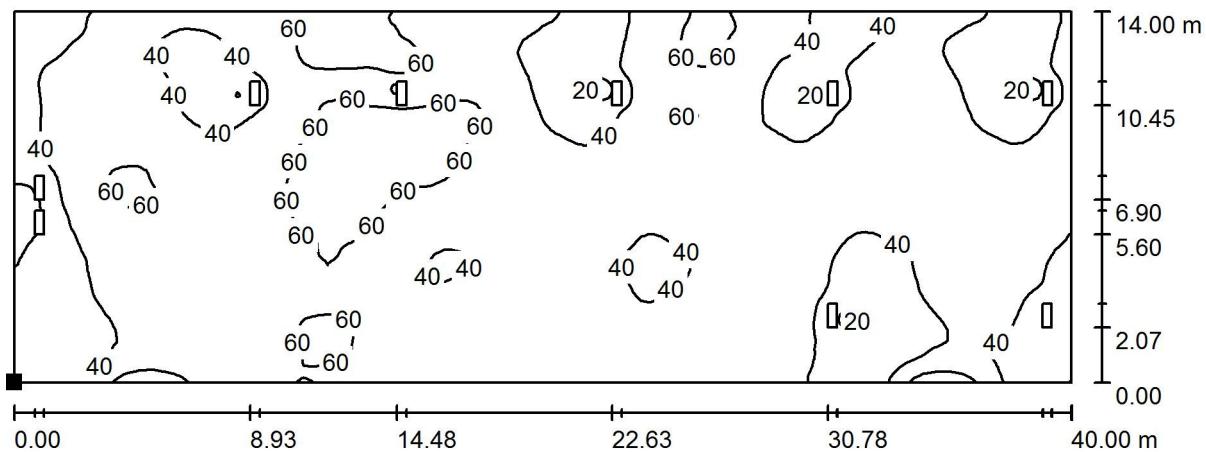
$E_{min}$  [lx]  
1.01

$E_{max}$  [lx]  
144

$u_0$   
0.021

$E_{min} / E_{max}$   
0.007

## Exterior Scene 1 / Calculation Surface - Parking Bays Middle / Isolines (E, Perpendicular)

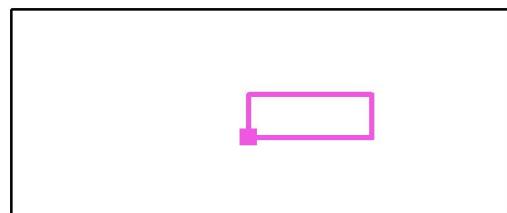


Values in Lux, Scale 1 : 286

Position of surface in external scene:

Marked point:

(-27.932 m, -15.495 m, 0.738 m)



Grid: 128 x 128 Points

$E_{av}$  [lx]  
48

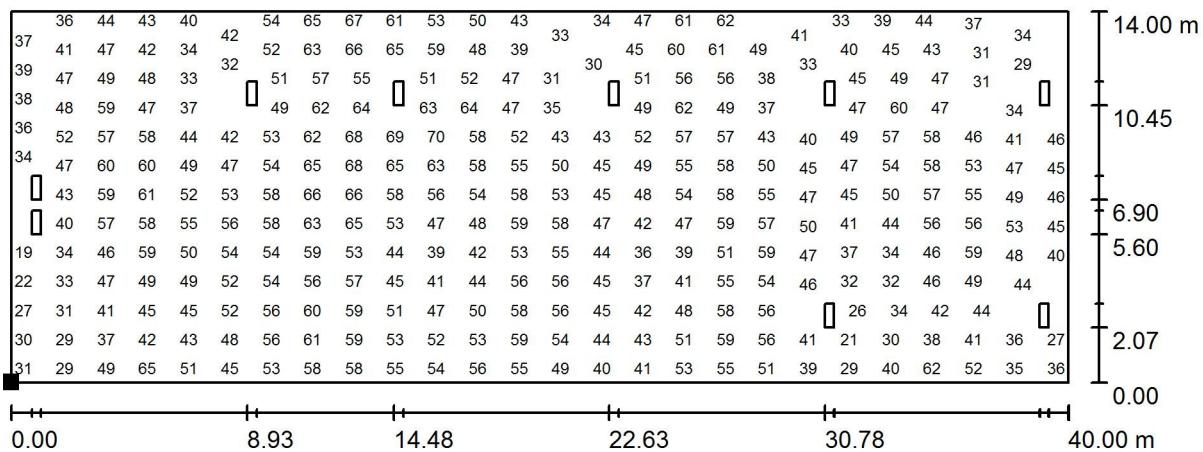
$E_{min}$  [lx]  
9.45

$E_{max}$  [lx]  
78

$u_0$   
0.198

$E_{min} / E_{max}$   
0.121

## Exterior Scene 1 / Calculation Surface - Parking Bays Middle / Value Chart (E, Perpendicular)



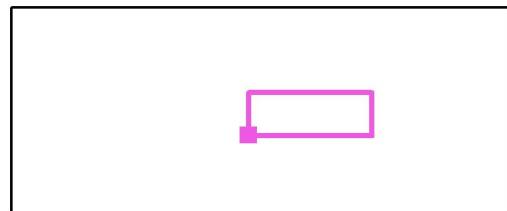
Values in Lux, Scale 1 : 286

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

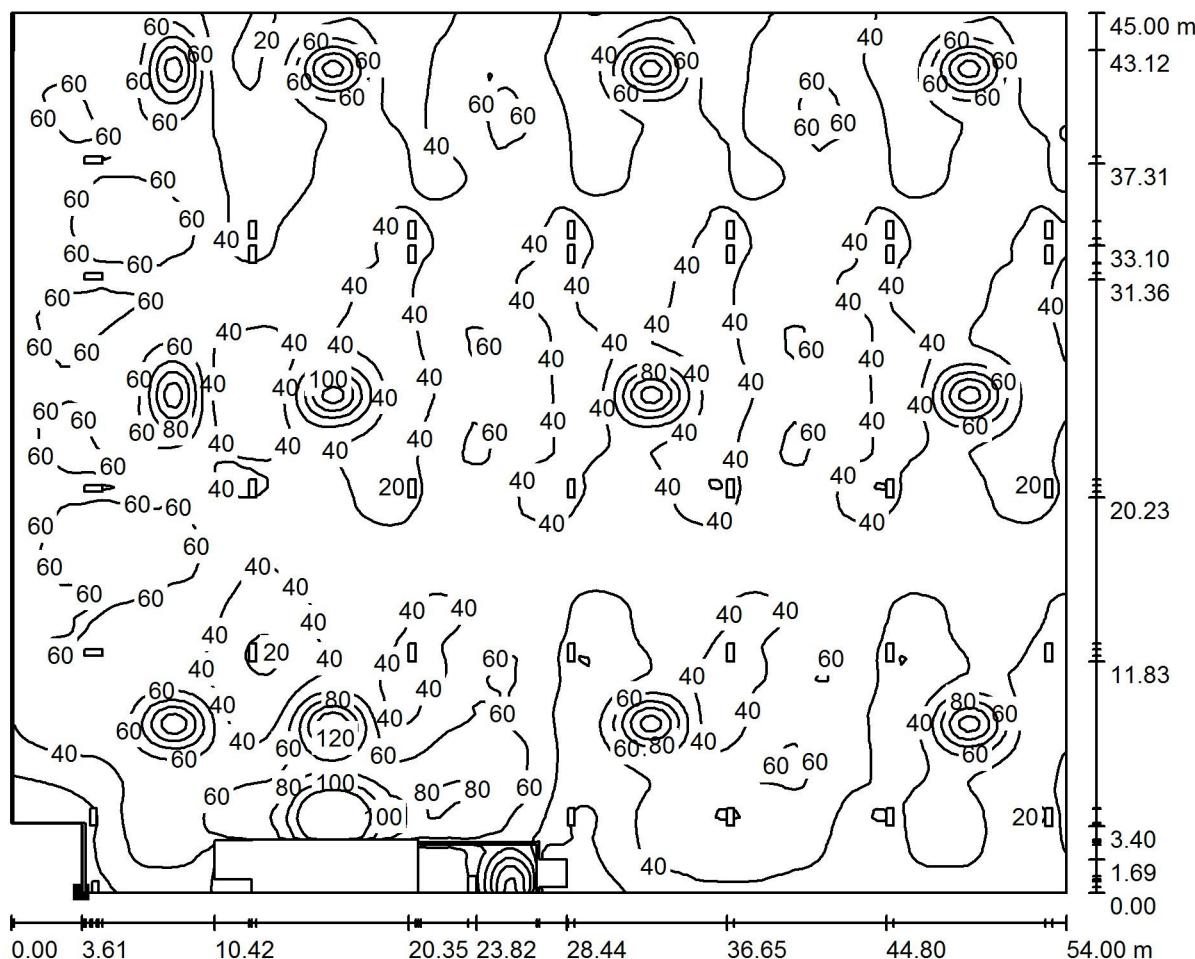
(-27.932 m, -15.495 m, 0.738 m)



Grid: 128 x 128 Points

$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$	$E_{min} / E_{max}$
48	9.45	78	0.198	0.121

## Exterior Scene 1 / Calculation Surface Level 1 - Area 45 / Isolines (E, Perpendicular)

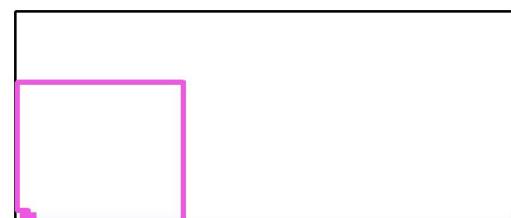


Values in Lux, Scale 1 : 387

Position of surface in external scene:

Marked point:

(-100.935 m, -42.019 m, 0.750 m)



Grid: 128 x 128 Points

$E_{av}$  [lx]  
48

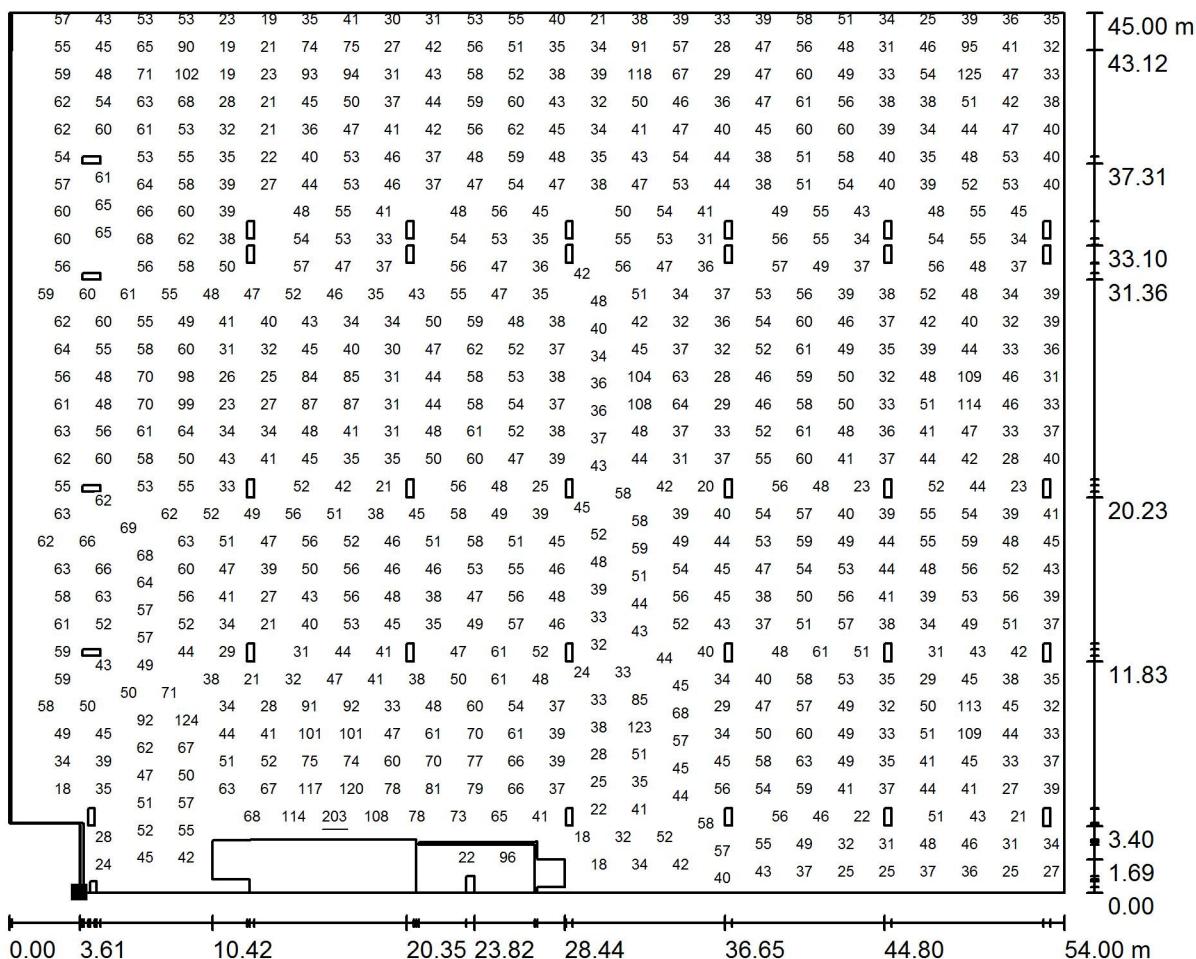
$E_{min}$  [lx]  
0.84

$E_{max}$  [lx]  
203

$u_0$   
0.017

$E_{min} / E_{max}$   
0.004

## Exterior Scene 1 / Calculation Surface Level 1 - Area 45 / Value Chart (E, Perpendicular)



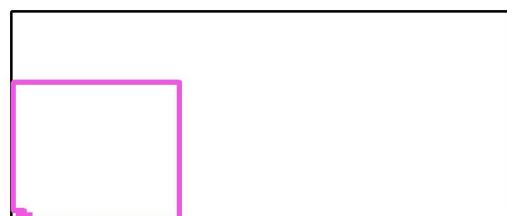
Values in Lux, Scale 1 : 387

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(-100.935 m, -42.019 m, 0.750 m)



Grid: 128 x 128 Points

$E_{av}$  [lx]  
48

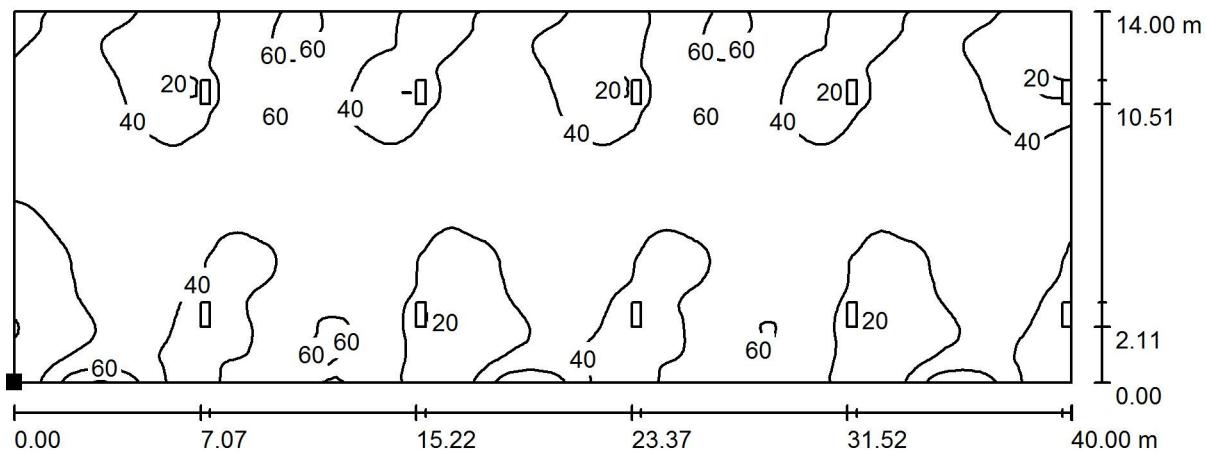
$E_{min}$  [lx]  
0.84

$E_{max}$  [lx]  
203

$u_0$   
0.017

$E_{min} / E_{max}$   
0.004

## Exterior Scene 1 / Calculation Surface - Parking Bays Low / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 286

Position of surface in external scene:

Marked point:

(-91.269 m, -32.299 m, 0.738 m)



Grid: 128 x 128 Points

$E_{av}$  [lx]  
45

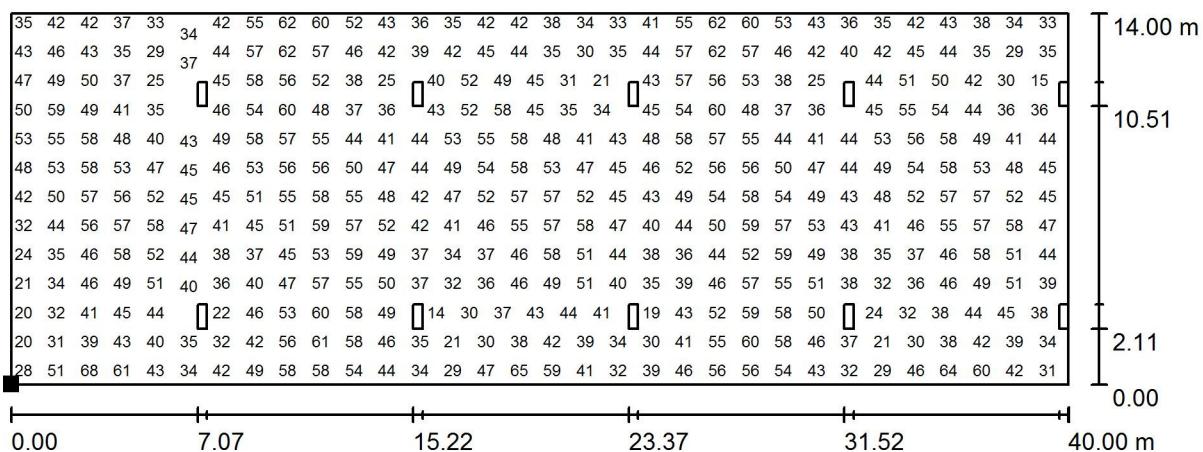
$E_{min}$  [lx]  
11

$E_{max}$  [lx]  
82

$u_0$   
0.247

$E_{min} / E_{max}$   
0.135

## Exterior Scene 1 / Calculation Surface - Parking Bays Low / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 286

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

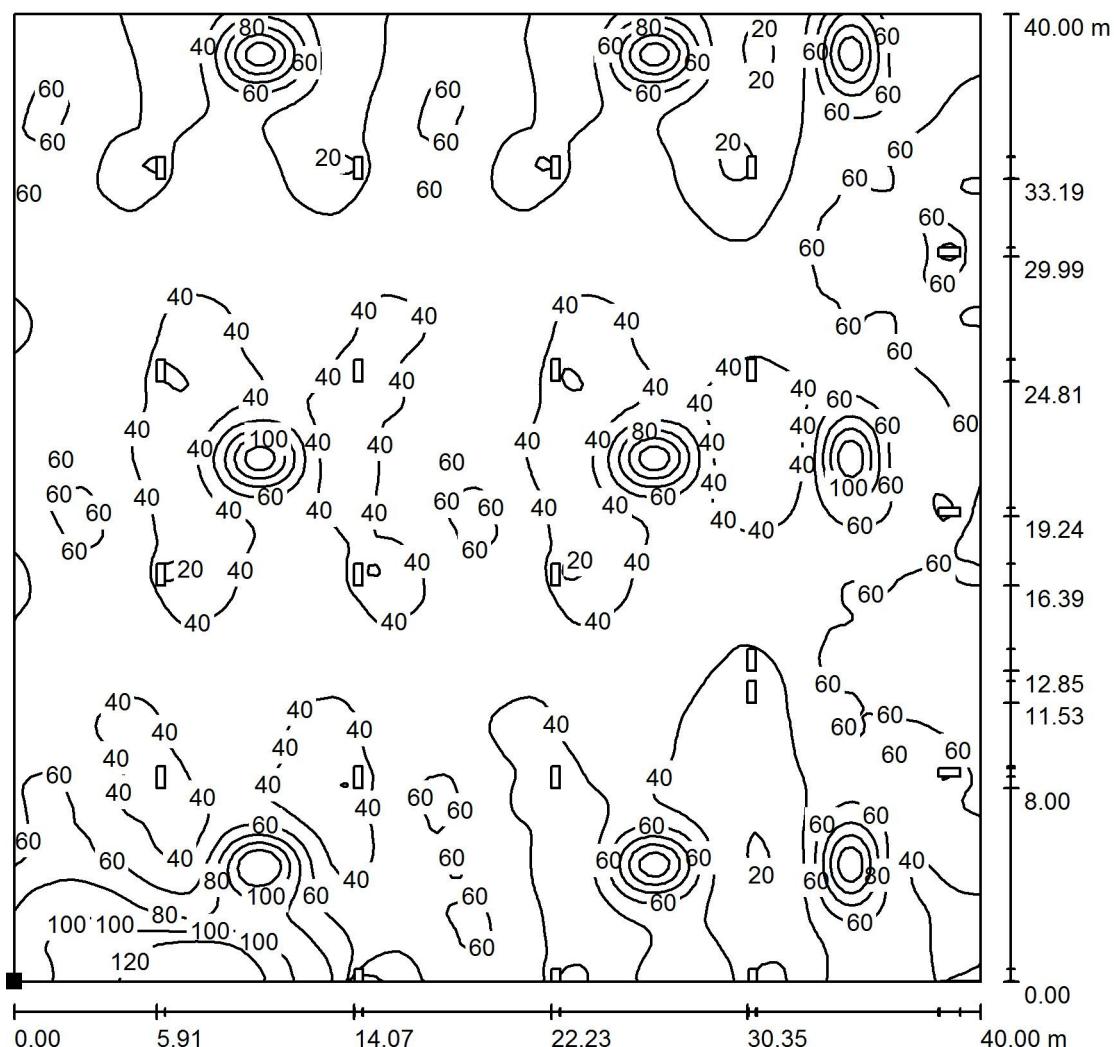
(-91.269 m, -32.299 m, 0.738 m)



Grid: 128 x 128 Points

$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$	$E_{min} / E_{max}$
45	11	82	0.247	0.135

## Exterior Scene 1 / Calculation Surface Level 1 - Area 47 / Isolines (E, Perpendicular)



Grid: 128 x 128 Points

$E_{av}$  [lx]  
51

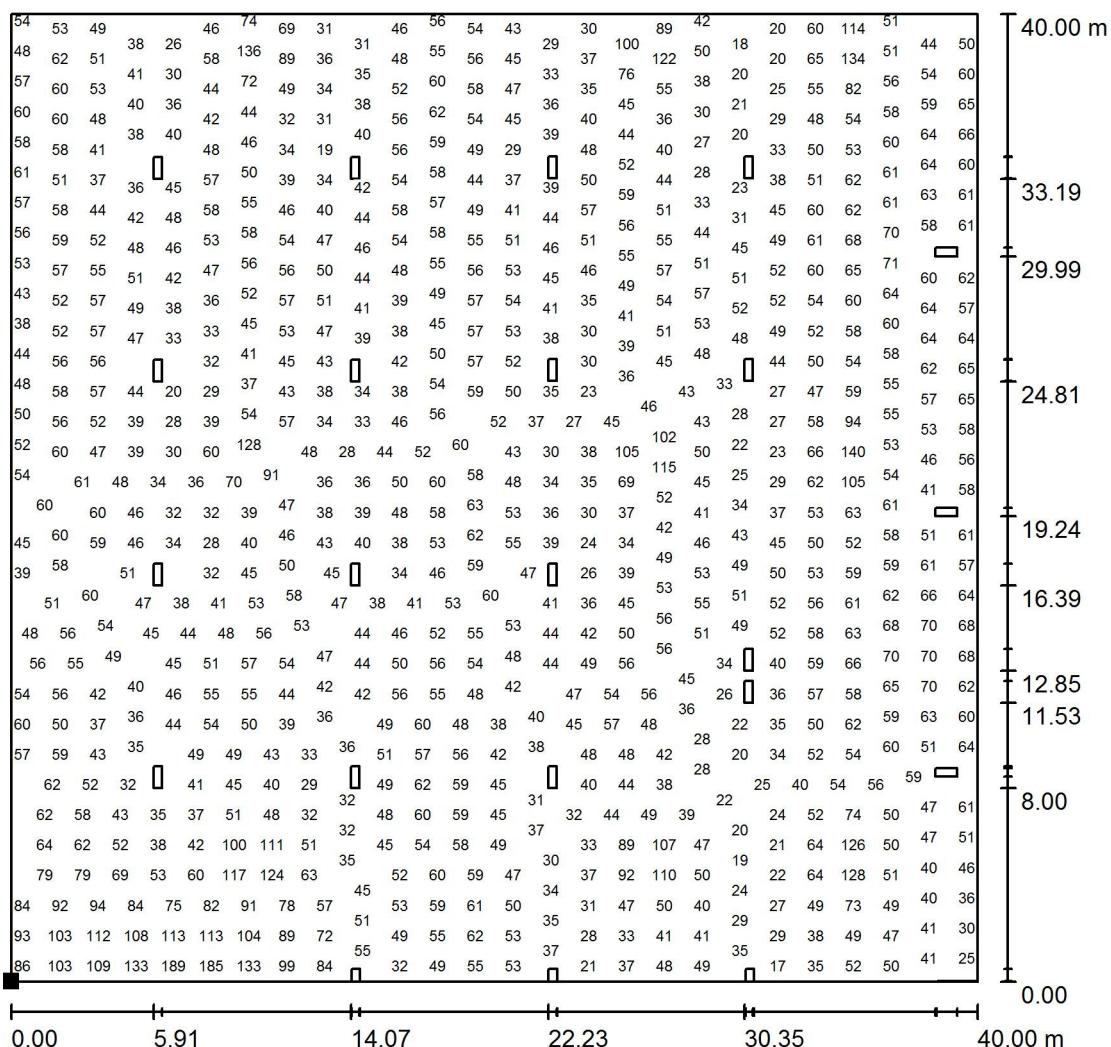
$E_{min}$  [lx]  
7.14

$E_{max}$  [lx]  
221

$u_0$   
0.141

$E_{min} / E_{max}$   
0.032

## Exterior Scene 1 / Calculation Surface Level 1 - Area 47 / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 313

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(13.199 m, -38.247 m, 0.750 m)



Grid: 128 x 128 Points

$E_{av}$  [lx]  
51

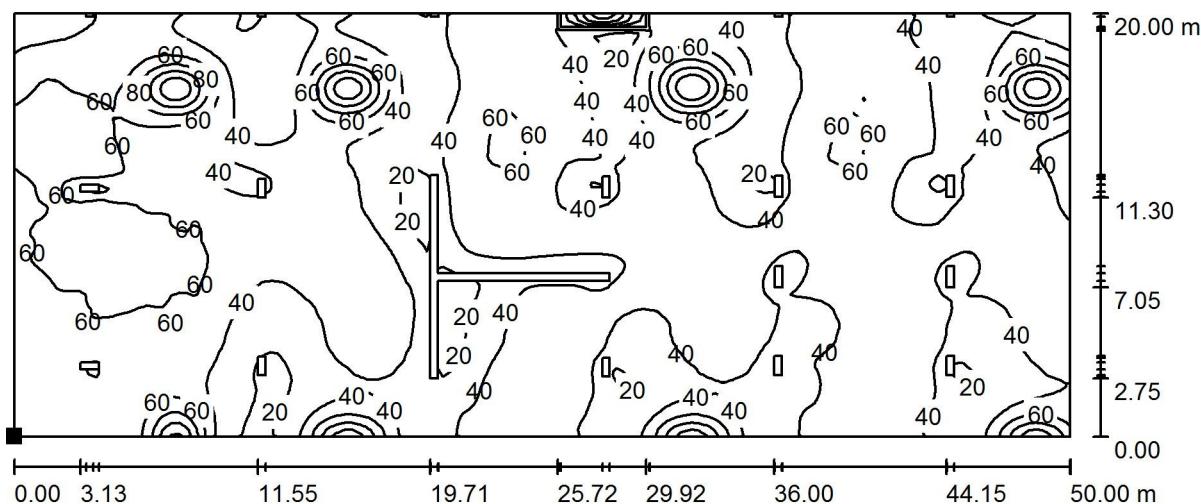
$E_{min}$  [lx]  
7.14

$E_{max}$  [lx]  
221

$u_0$   
0.141

$E_{min} / E_{max}$   
0.032

## Exterior Scene 1 / Calculation Surface Level 1 - Area 55 / Isolines (E, Perpendicular)

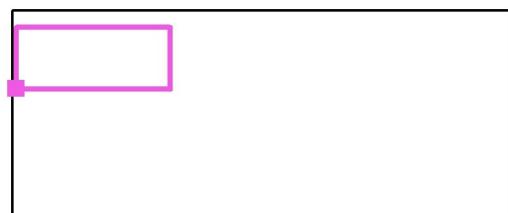


Values in Lux, Scale 1 : 358

Position of surface in external scene:

Marked point:

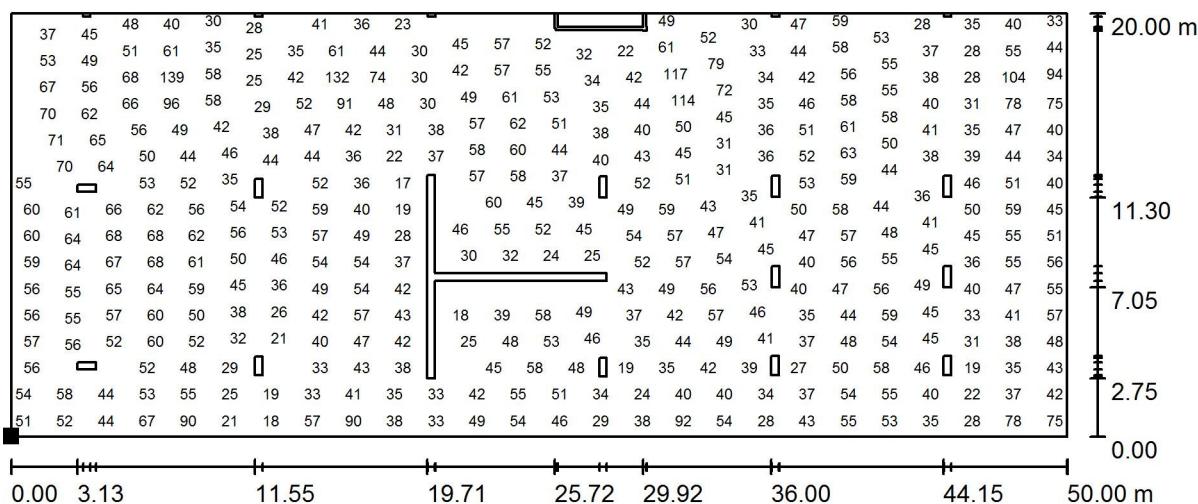
(-103.906 m, 0.599 m, 0.750 m)



Grid: 128 x 128 Points

$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$	$E_{min} / E_{max}$
47	3.80	148	0.080	0.026

## Exterior Scene 1 / Calculation Surface Level 1 - Area 55 / Value Chart (E, Perpendicular)



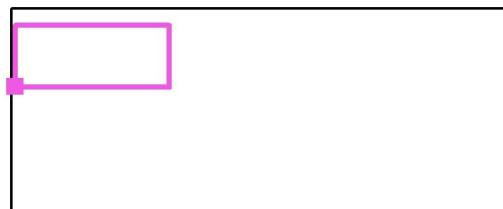
Values in Lux, Scale 1 : 358

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(-103.906 m, 0.599 m, 0.750 m)



Grid: 128 x 128 Points

$E_{av}$  [lx]  
47

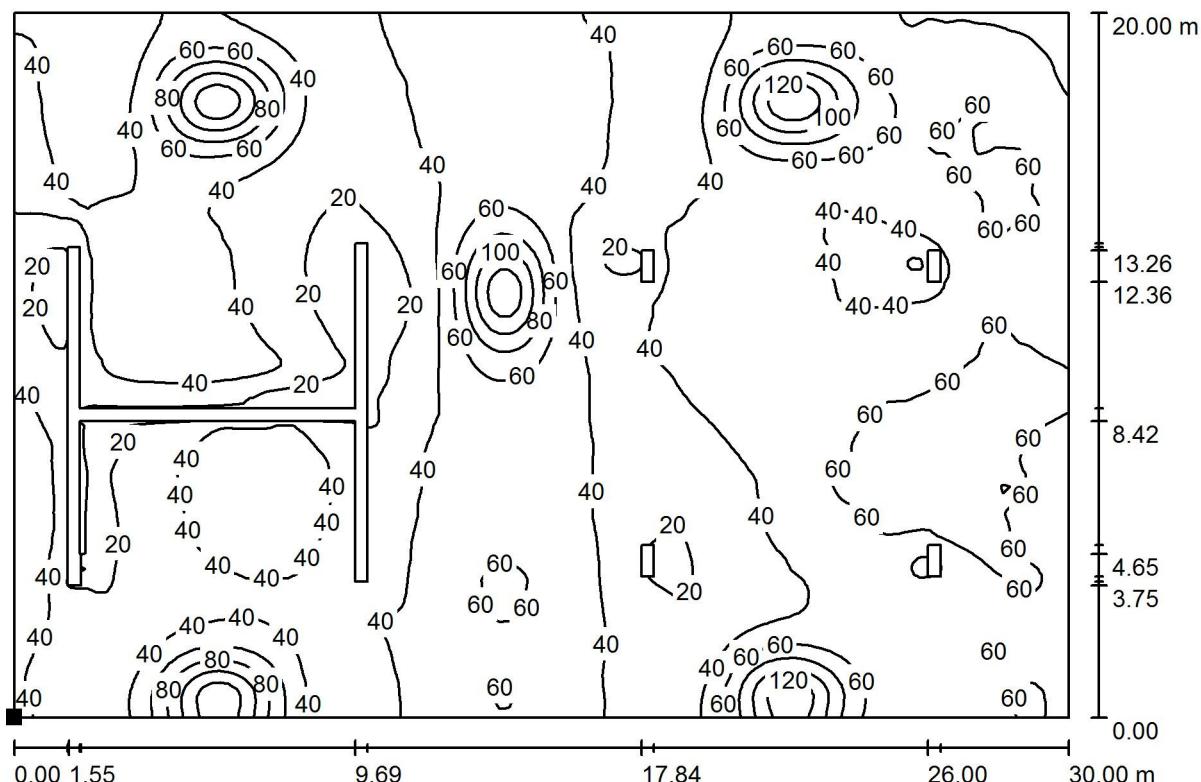
$E_{min}$  [lx]  
3.80

$E_{max}$  [lx]  
148

$u_0$   
0.080

$E_{min} / E_{max}$   
0.026

## Exterior Scene 1 / Calculation Surface Level 1 - Area 56 / Isolines (E, Perpendicular)

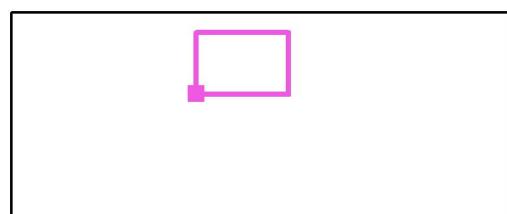


Values in Lux, Scale 1 : 215

Position of surface in external scene:

Marked point:

(-45.000 m, -0.450 m, 0.750 m)



Grid: 128 x 128 Points

$E_{av}$  [lx]  
47

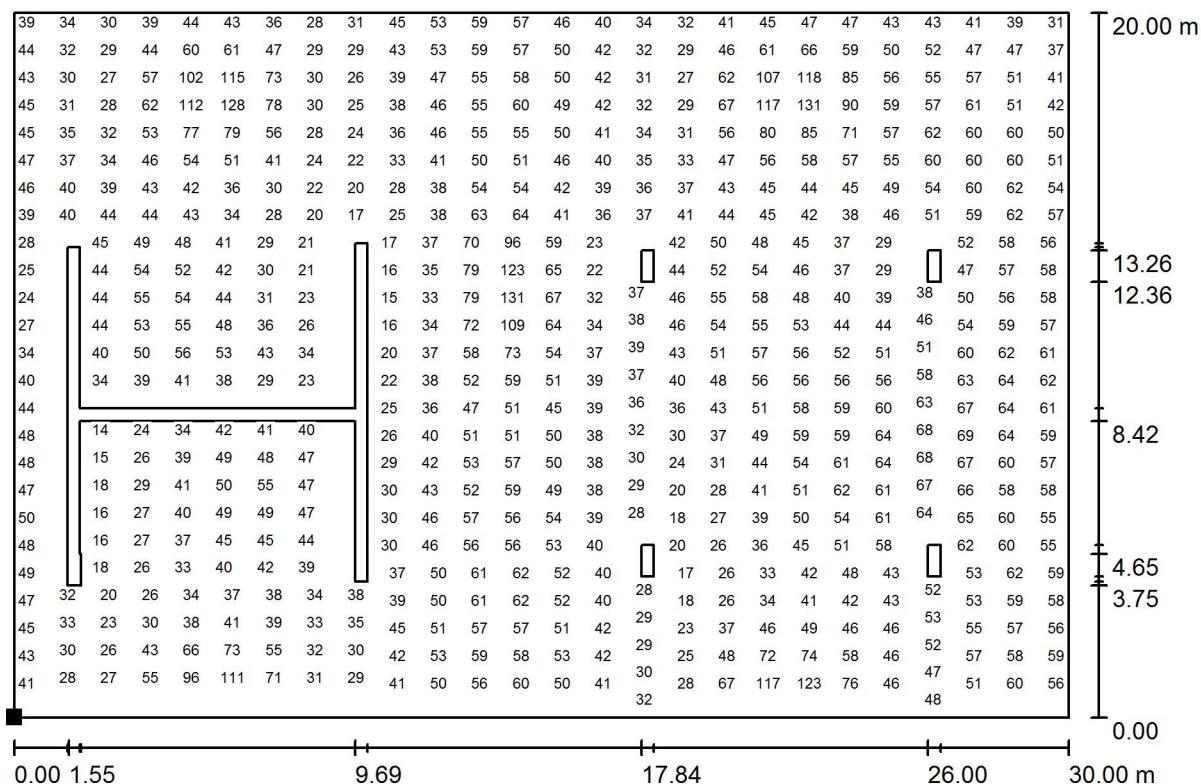
$E_{min}$  [lx]  
4.63

$E_{max}$  [lx]  
143

$u_0$   
0.099

$E_{min} / E_{max}$   
0.032

## Exterior Scene 1 / Calculation Surface Level 1 - Area 56 / Value Chart (E, Perpendicular)



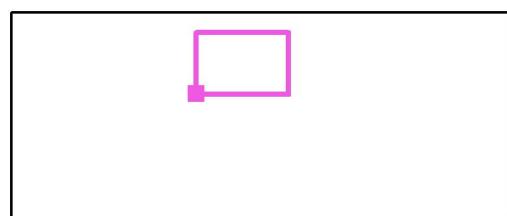
Values in Lux, Scale 1 : 215

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(-45.000 m, -0.450 m, 0.750 m)



Grid: 128 x 128 Points

$E_{av}$  [lx]  
47

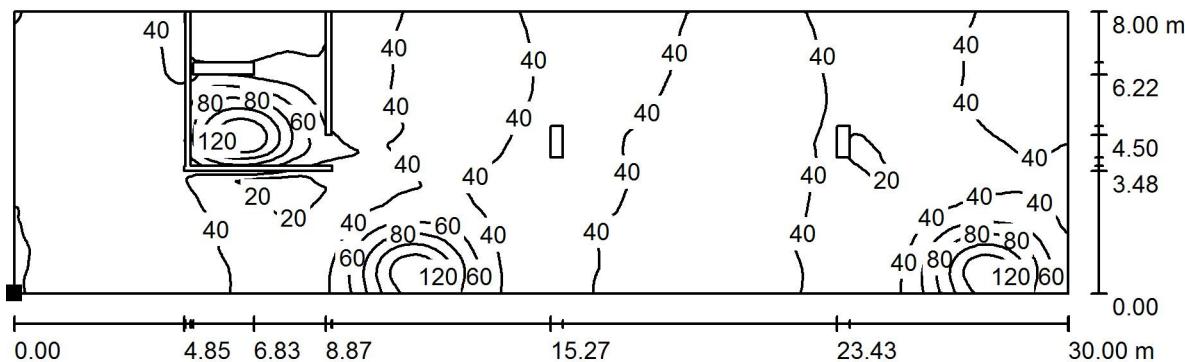
$E_{min}$  [lx]  
4.63

$E_{max}$  [lx]  
143

$u_0$   
0.099

$E_{min} / E_{max}$   
0.032

## Exterior Scene 1 / Calculation Surface Level 1 - Area 57 / Isolines (E, Perpendicular)



Values in Lux, Scale 1 : 215

Position of surface in external scene:

Marked point:

(12.000 m, -0.500 m, 0.750 m)



Grid: 128 x 128 Points

$E_{av}$  [lx]  
45

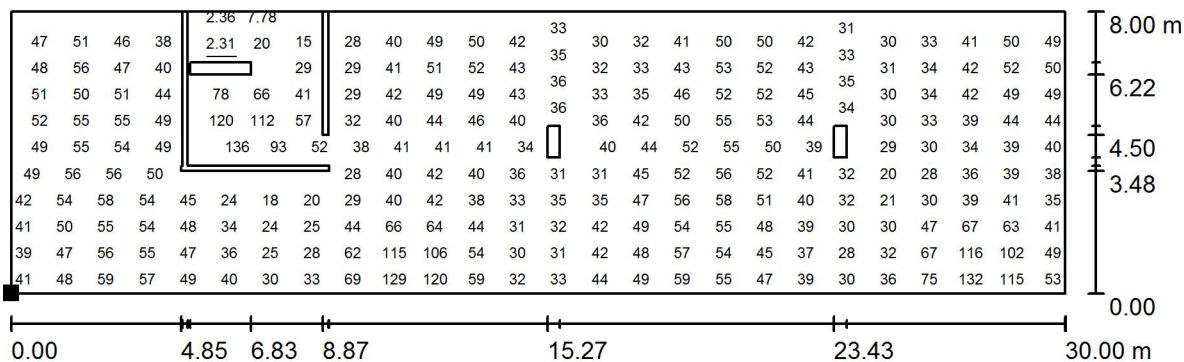
$E_{min}$  [lx]  
2.31

$E_{max}$  [lx]  
143

$u_0$   
0.051

$E_{min} / E_{max}$   
0.016

## Exterior Scene 1 / Calculation Surface Level 1 - Area 57 / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 215

Not all calculated values could be displayed.

Position of surface in external scene:

Marked point:

(12.000 m, -0.500 m, 0.750 m)



Grid: 128 x 128 Points

$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$	$E_{min} / E_{max}$
45	2.31	143	0.051	0.016