

Kekavas

Installation : apgaismojums parka teritorija

Project number : 78

Customer : Ķekavas novada pašvaldība

Processed by : Auseklis Mūzis

Date : 17.12.2014

Project description:
Apgaismojums

The following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergences can occur.

Guarantee claims for luminaire data are excluded.

Relux and the luminaire manufacturers accept no liability for consequential damage and damage which is occasioned to the user or to third parties.

Object : Kekavas
Installation : apgaismojums parka teritorija
Project number : 78
Date : 17.12.2014

Luminaire data

Stork 34W DWC (SR 034 40 02 01 1 G N DD)

Data sheet

SR 034 40 02 01 1 G N DD

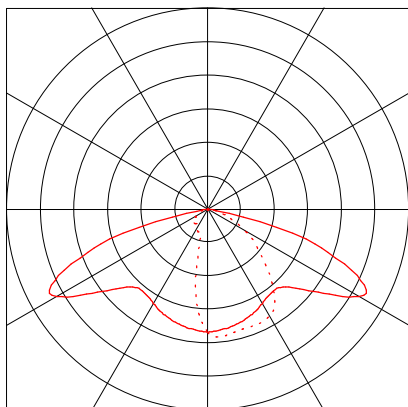
Stork 34W DWC

Luminaire data

Absolute Photometry
Luminaire efficacy : 95.76 lm/W
Classification : A30 100.0% ↑0.0%
CIE Flux Codes : 39 73 97 100 100
UGR 4H 8H (20%, 50%, 70%)
C0 / C90 : 31.7 / 15.4
Control gear :
System power : 34.66 W
Length : 880 mm
Width : 370 mm
Height : 47 mm

Equipped with

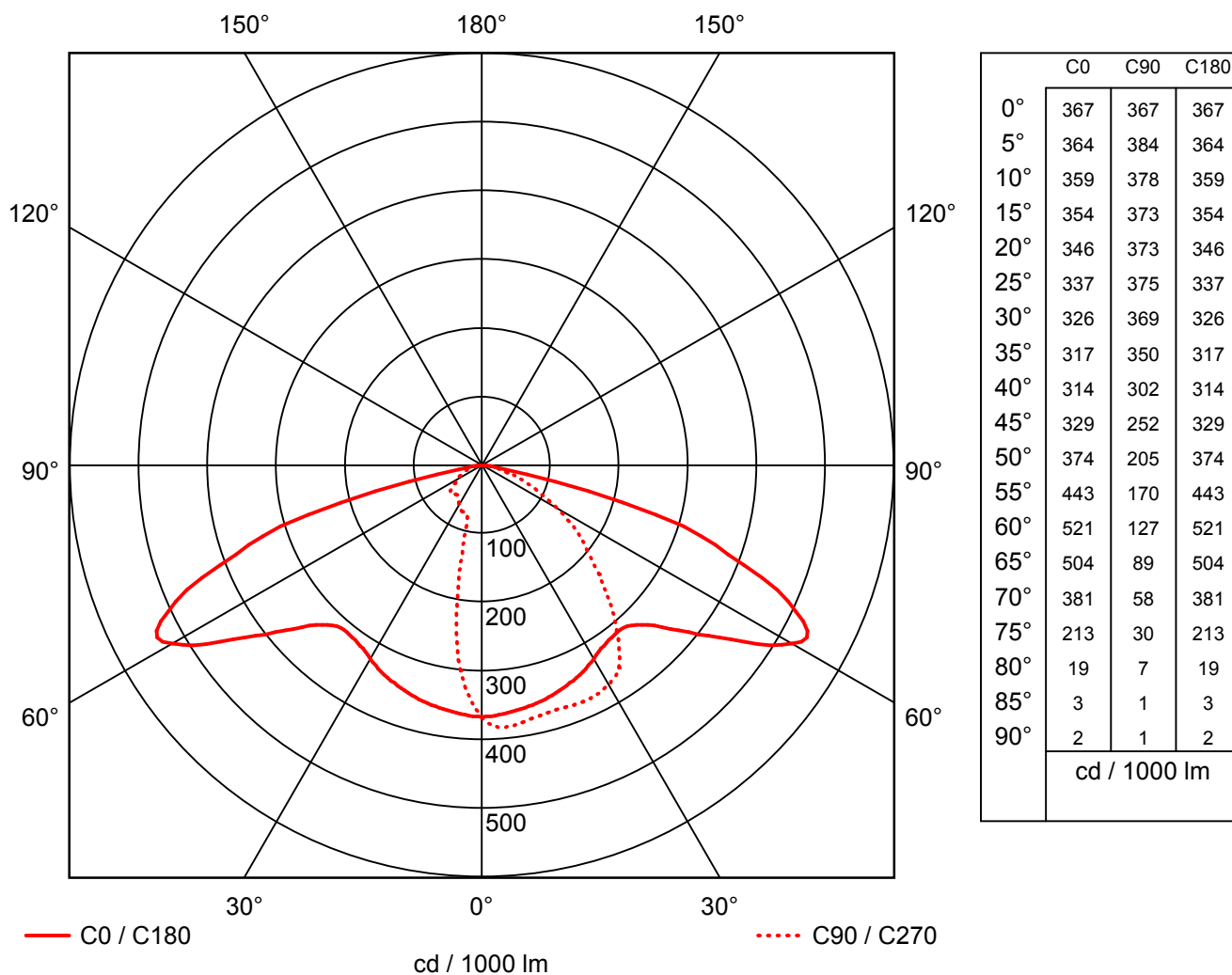
Quantity : 1
Designation : Stork 1 module
Colour : 3865.7
Luminous flux : 3318.9 lm
Colour reproduction : 74



Object : Kekavas
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Stork 34W DWC (SR 034 40 02 01 1 G N DD)

LDC



Manufacturer :
Order number : SR 034 40 02 01 1 G N DD
Luminaire name : Stork 34W DWC
Equipment : 1 x Stork 1 module / 3318.9 lm
Dimensions : L 880 mm x W 370 mm x H 47 mm
File name : SR 034 40 02 01 1 G N DD.LDT

Luminaire efficacy : 95.76 lm/W (A30)
Light distribution : asymmetric
Beam Angle : 73.5° C0
41.7° C90
73.5° C180
6.8° C270

Object : Kekavas
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Stork 34W DWC (SR 034 40 02 01 1 G N DD)

Glare Rating (UGR)

Reflectance of										
Ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Floor Cavity	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Room dimension		Viewed crosswise					Viewed endwise				
x	y										
2H	2H	26.9	28.6	27.2	28.9	29.2	11.9	13.6	12.3	13.9	14.3
	3H	30.3	31.9	30.7	32.2	32.5	13.6	15.2	14.0	15.5	15.8
	4H	31.1	32.6	31.5	33.0	33.3	14.3	15.7	14.6	16.1	16.5
	6H	31.2	32.6	31.6	33.0	33.4	14.4	15.8	14.8	16.2	16.6
	8H	31.2	32.5	31.6	32.9	33.3	14.4	15.7	14.8	16.1	16.5
	12H	31.1	32.4	31.5	32.8	33.2	14.3	15.6	14.7	16.0	16.4
4H	2H	26.9	28.4	27.3	28.8	29.1	12.7	14.2	13.1	14.6	14.9
	3H	30.6	31.9	31.0	32.3	32.7	14.5	15.8	14.9	16.2	16.6
	4H	31.6	32.7	32.0	33.2	33.6	15.3	16.4	15.7	16.8	17.3
	6H	31.7	32.7	32.2	33.2	33.6	15.5	16.5	15.9	16.9	17.3
	8H	31.7	32.6	32.2	33.1	33.5	15.4	16.4	15.9	16.8	17.3
	12H	31.7	32.5	32.2	33.0	33.5	15.4	16.3	15.9	16.7	17.2
8H	4H	31.6	32.5	32.0	32.9	33.4	15.7	16.7	16.2	17.1	17.6
	6H	31.7	32.5	32.2	32.9	33.4	15.9	16.7	16.4	17.2	17.7
	8H	31.7	32.4	32.2	32.9	33.4	16.0	16.6	16.5	17.1	17.6
	12H	31.7	32.3	32.2	32.8	33.3	15.9	16.5	16.5	17.0	17.5
12H	4H	31.6	32.4	32.0	32.8	33.3	15.9	16.7	16.4	17.2	17.7
	6H	31.7	32.4	32.2	32.9	33.4	16.1	16.8	16.6	17.3	17.8
	8H	31.7	32.3	32.2	32.8	33.3	16.1	16.7	16.6	17.2	17.7

Distance between luminaires: 0.25

Due to missing symmetry characteristics the values apply only to the indicated line of sight.

Manufacturer	:		Luminaire efficacy	:	95.76 lm/W (A30)
Order number	:	SR 034 40 02 01 1 G N DD	Light distribution	:	asymmetric
Luminaire name	:	Stork 34W DWC	Beam Angle	:	73.5° C0
Equipment	:	1 x Stork 1 module / 3318.9 lm		:	41.7° C90
Dimensions	:	L 880 mm x W 370 mm x H 47 mm		:	73.5° C180
File name	:	SR 034 40 02 01 1 G N DD.LDT		:	6.8° C270

Object : Kekavas
Installation : apgaismojums parka teritorija
Project number : 78
Date : 17.12.2014

Luminaire data

Stork 76W DNW (SR 076 40 03 01 3 G N DD)

Data sheet

SR 076 40 03 01 3 G N DD

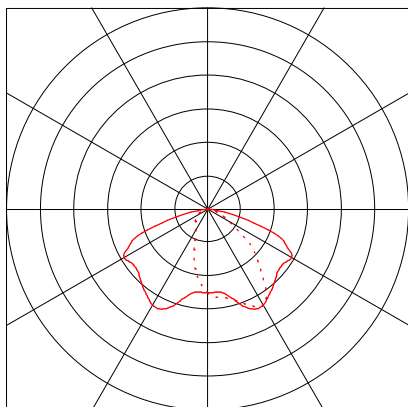
Stork 76W DNW

Luminaire data

Absolute Photometry
Luminaire efficacy : 107.03 lm/W
Classification : A30 100.0% ↑0.0%
CIE Flux Codes : 39 71 95 100 100
UGR 4H 8H (20%, 50%, 70%)
C0 / C90 : 35.0 / 19.2
Control gear :
System power : 76.46 W
Length : 880 mm
Width : 370 mm
Height : 47 mm

Equipped with

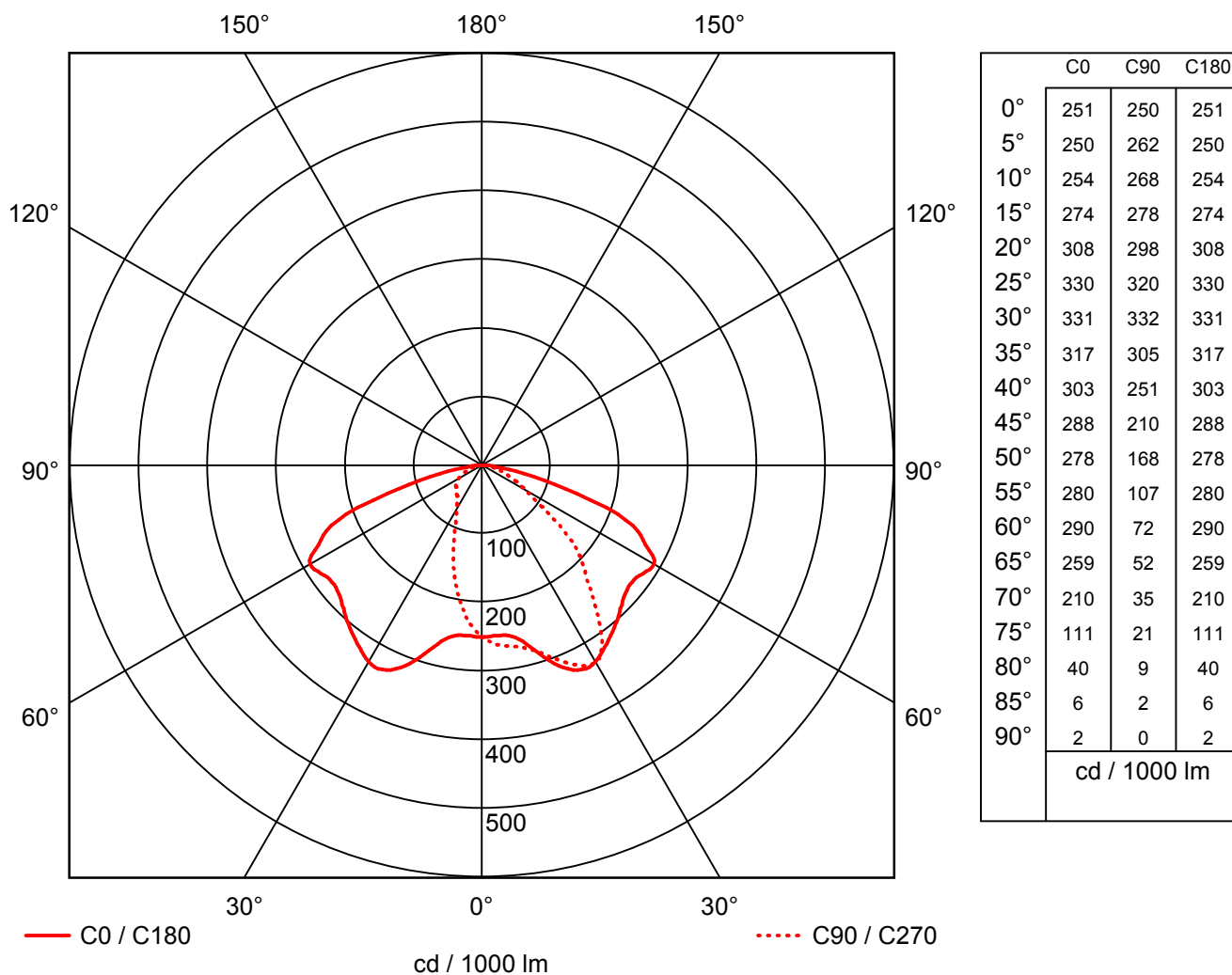
Quantity : 1
Designation : Stork 3
Lumiled
modules
Colour : 3843.9
Luminous flux : 8183.8 lm
Colour reproduction : 73



Object : Kekavas
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Stork 76W DNW (SR 076 40 03 01 3 G N DD)

LDC



Manufacturer :
Order number : SR 076 40 03 01 3 G N DD
Luminaire name : Stork 76W DNW
Equipment : 1 x Stork 3 Lumiled modules / 8183.
Dimensions : L 880 mm x W 370 mm x H 47 mm
File name : SR 076 40 03 01 3 G N DD.LDT

Luminaire efficacy : 107.03 lm/W (A30)
Light distribution : asymmetric
Beam Angle : 44.1° C0
36.4° C90
44.1° C180
-- C270

Object : Kekavas
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 Project number : 78
 Date : 17.12.2014



Stork 76W DNW (SR 076 40 03 01 3 G N DD)

Glare Rating (UGR)

Reflectance of										
Ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Floor Cavity	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Room dimension		Viewed crosswise					Viewed endwise				
x	y										
2H	2H	29.0	30.8	29.4	31.1	31.4	15.8	17.5	16.2	17.9	18.2
	3H	32.2	33.8	32.6	34.2	34.5	17.0	18.6	17.4	19.0	19.3
	4H	33.0	34.5	33.4	34.9	35.2	17.4	18.9	17.8	19.3	19.6
	6H	33.3	34.7	33.7	35.0	35.4	17.5	18.9	17.9	19.2	19.6
	8H	33.2	34.6	33.6	35.0	35.4	17.4	18.8	17.8	19.2	19.6
	12H	33.2	34.5	33.6	34.9	35.3	17.4	18.7	17.8	19.1	19.5
4H	2H	29.7	31.2	30.1	31.5	31.9	17.4	19.0	17.8	19.3	19.7
	3H	33.3	34.6	33.7	35.0	35.4	18.7	20.0	19.1	20.4	20.8
	4H	34.5	35.7	34.9	36.1	36.5	19.2	20.3	19.6	20.7	21.2
	6H	34.9	36.0	35.4	36.4	36.8	19.2	20.3	19.7	20.7	21.1
	8H	35.0	35.9	35.4	36.4	36.8	19.2	20.2	19.7	20.6	21.1
	12H	35.0	35.9	35.5	36.3	36.8	19.2	20.1	19.7	20.5	21.0
8H	4H	34.6	35.6	35.1	36.0	36.5	19.7	20.7	20.2	21.1	21.6
	6H	35.2	36.0	35.7	36.5	37.0	19.8	20.6	20.3	21.1	21.6
	8H	35.4	36.1	35.9	36.6	37.1	19.9	20.6	20.4	21.1	21.6
	12H	35.4	36.0	35.9	36.5	37.0	19.9	20.4	20.4	21.0	21.5
12H	4H	34.6	35.5	35.1	35.9	36.4	19.8	20.7	20.3	21.1	21.6
	6H	35.3	36.0	35.8	36.5	37.0	20.0	20.7	20.5	21.2	21.6
	8H	35.4	36.0	35.9	36.5	37.0	20.0	20.6	20.5	21.1	21.6

Distance between luminaires: 0.25

Due to missing symmetry characteristics the values apply only to the indicated line of sight.

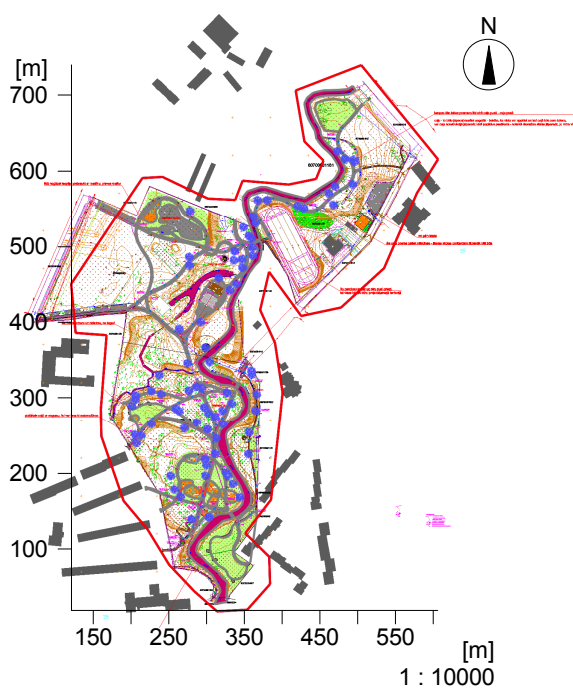
Manufacturer	:		Luminaire efficacy	:	107.03 lm/W (A30)
Order number	:	SR 076 40 03 01 3 G N DD	Light distribution	:	asymmetric
Luminaire name	:	Stork 76W DNW	Beam Angle	:	44.1° C0
Equipment	:	1 x Stork 3 Lumiled modules / 8183.8		:	36.4° C90
Dimensions	:	L 880 mm x W 370 mm x H 47 mm		:	44.1° C180
File name	:	SR 076 40 03 01 3 G N DD.LDT		:	-- C270

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Exterior 1

Description, Exterior 1

Floor plan

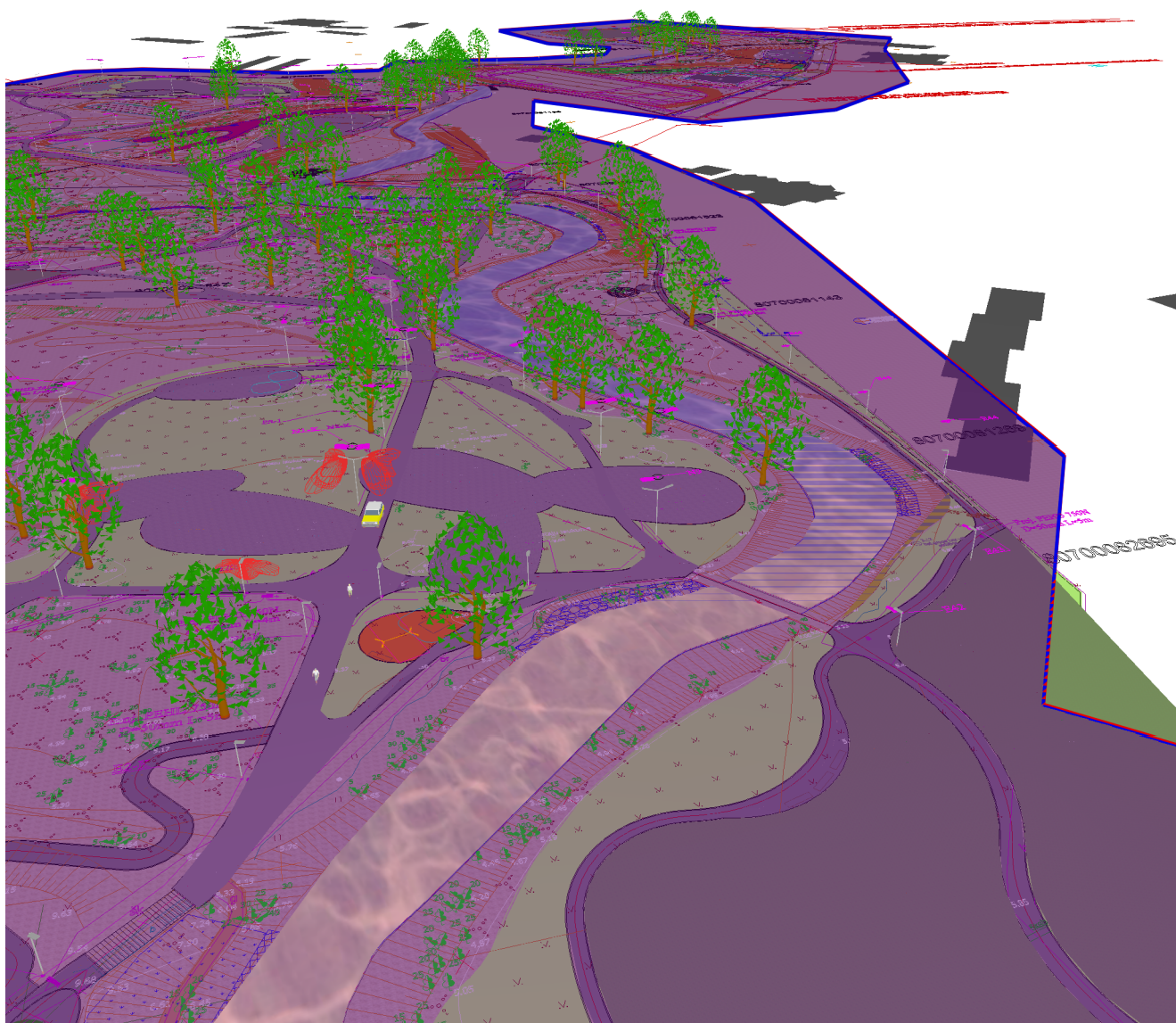


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Installation : apgaismojums parka teritorija
Project number : 78
Date : 17.12.2014

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Description, Exterior 1

3D view, View 1



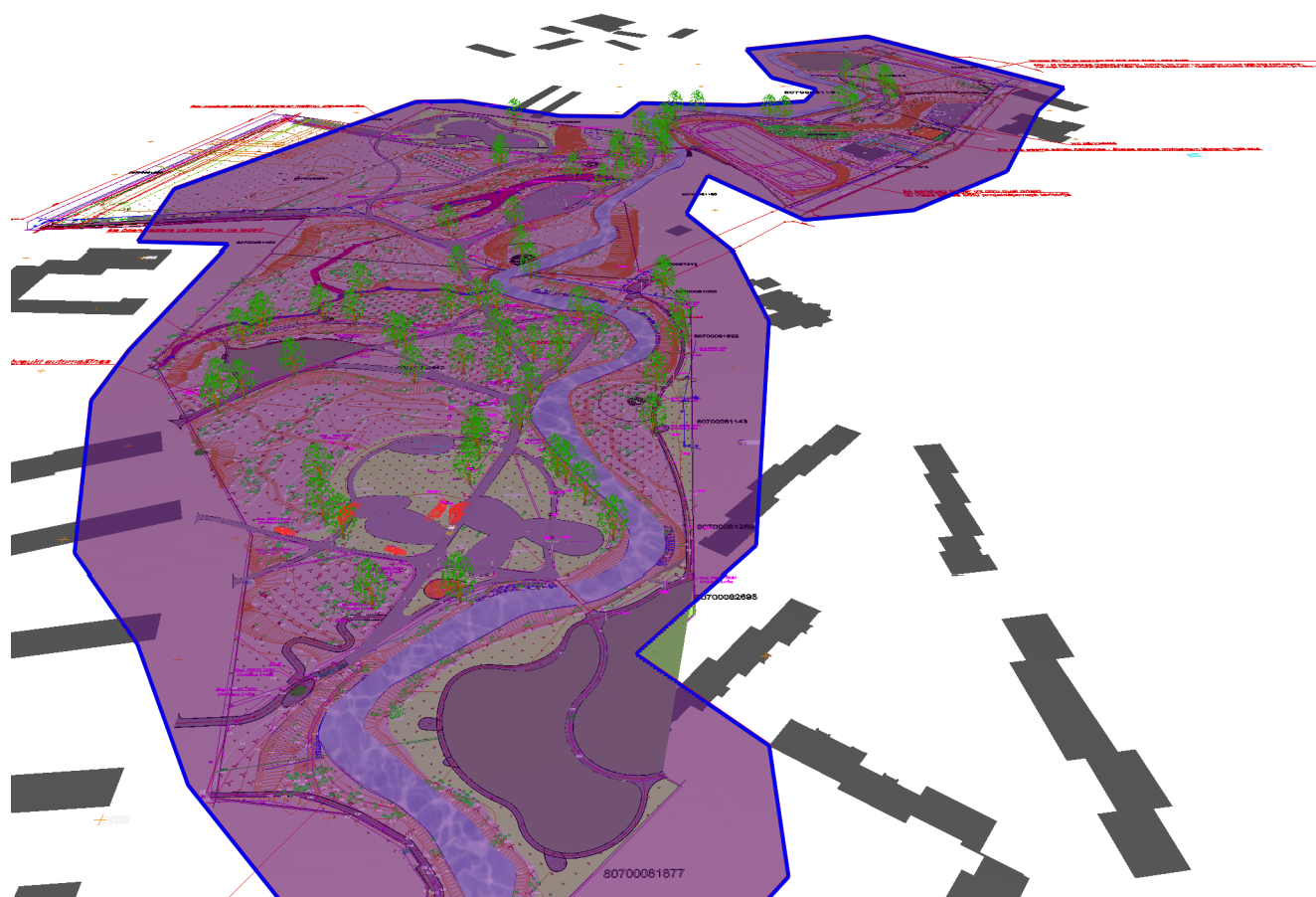
-please put your own address here-

Object : Kekavas
Installation : apgaismojums parka teritorija
Project number : 78
Date : 17.12.2014

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Description, Exterior 1

3D view, View 2



-please put your own address here-

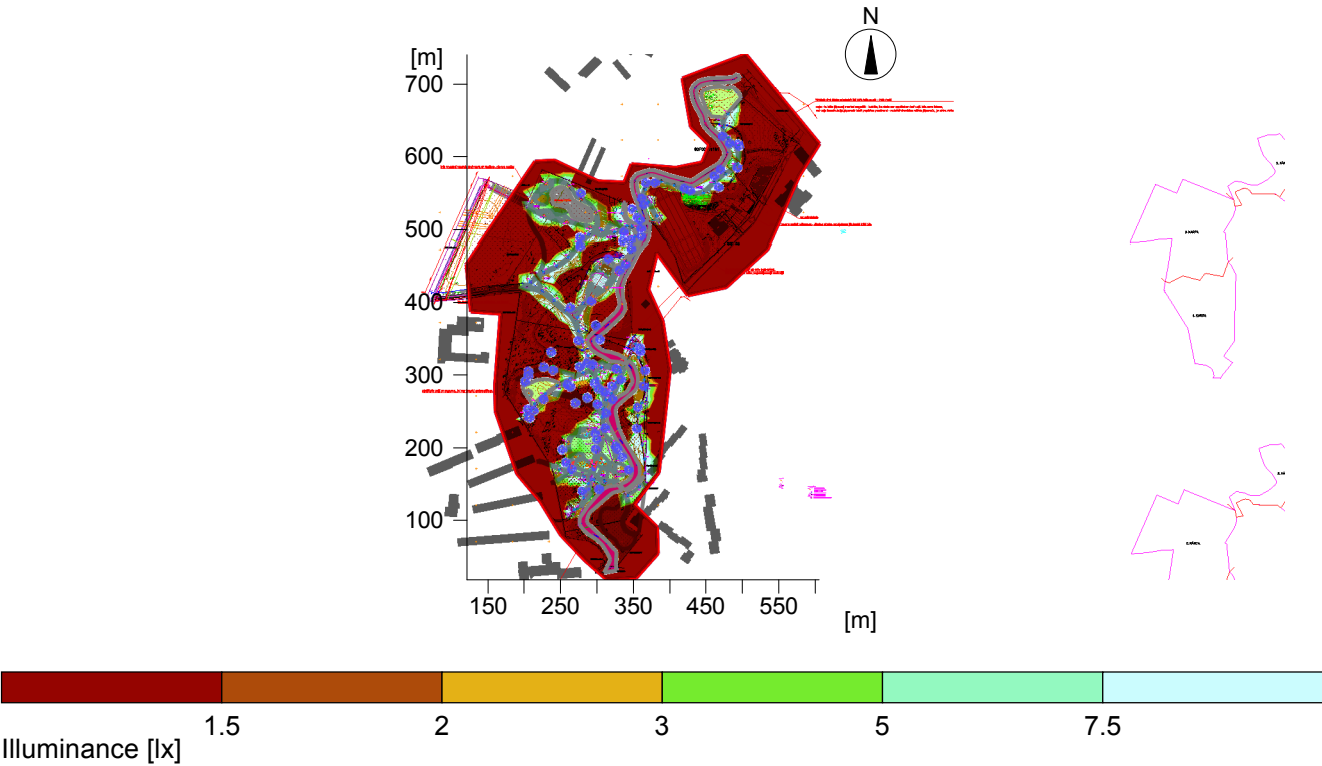
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Exterior 1

Summary, Exterior 1

Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	481383.313 lm
Total power	4775.0 W
Total power per area (157601.92 m²)	0.03 W/m² (0.86 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal	
Em	3.54 lx
Emin	0 lx
Emin/Eav (Uo)	---
Emin/Emax (Ud)	---
Position	0.20 m

Type No.\Make

10	76	Order No.	: SR 034 40 02 01 1 G N DD
		Luminaire name	: Stork 34W DWC
		Equipment	: 1 x Stork 1 module / 3318.9 lm
14	28	Order No.	: SR 076 40 03 01 3 G N DD
		Luminaire name	: Stork 76W DNW
		Equipment	: 1 x Stork 3 Lumiled modules / 8183.8 lm

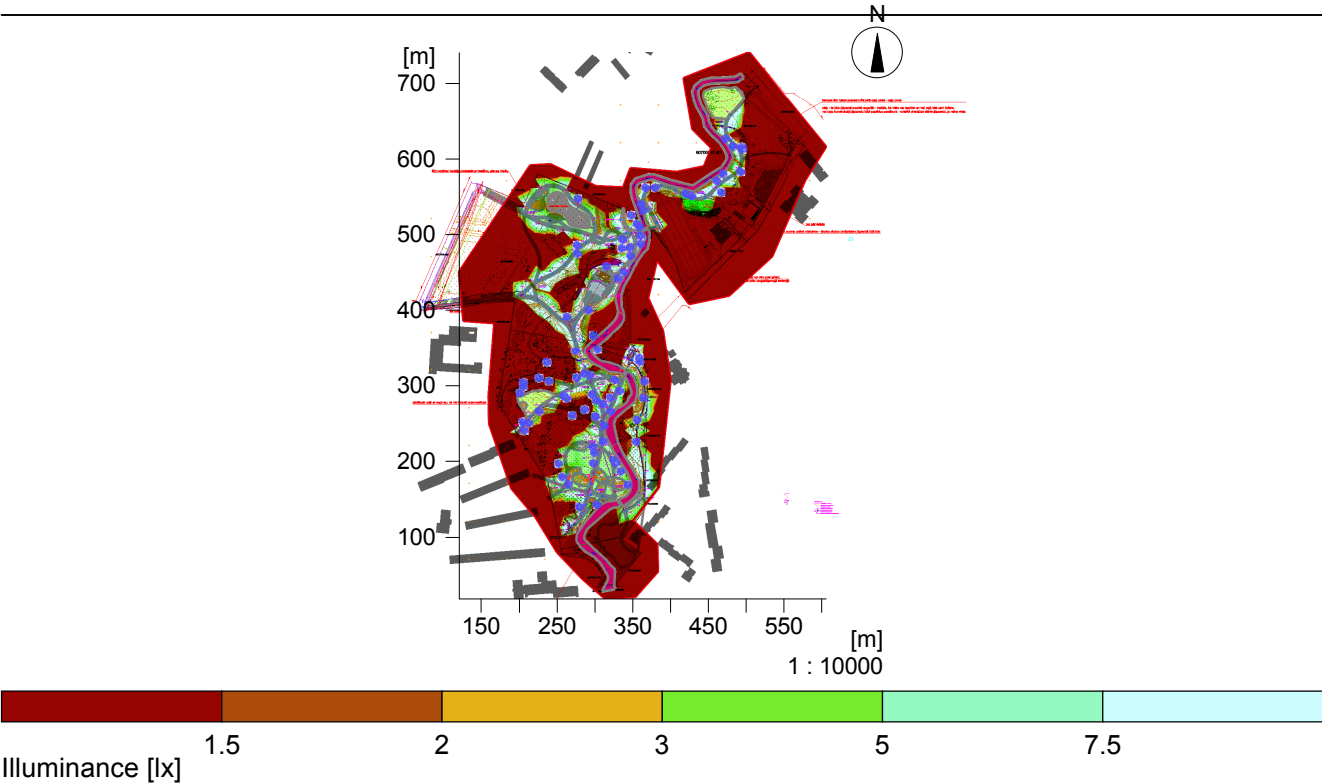
Object : Kekavas
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Project number : 78
Date : 17.12.2014



Exterior 1

Calculation results, Exterior 1

Pseudo colours, Reference plane 1.1 (E)



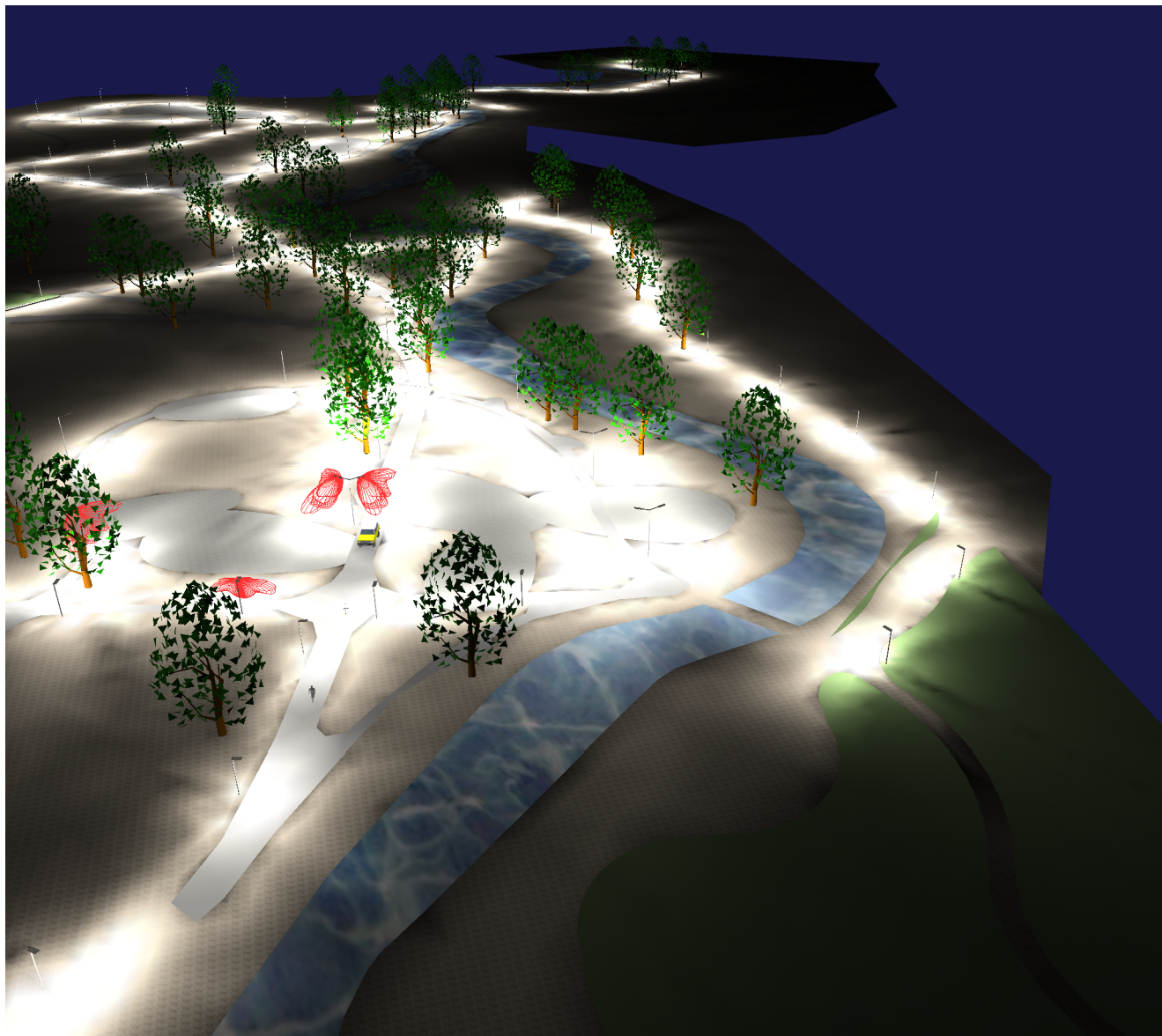
Height of the reference plane		: 0.20 m
Average illuminance	Eav	: 3.5 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 49.8 lx
Uniformity Uo	Emin/Eav	: ---
Diversity Ud	Emin/Emax	: ---

Object : Kekavas
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Calculation results, Exterior 1

3D luminance, View 1



Luminance in the scene

Minimum: : 0 cd/m²

Maximum: : 71.1 cd/m²

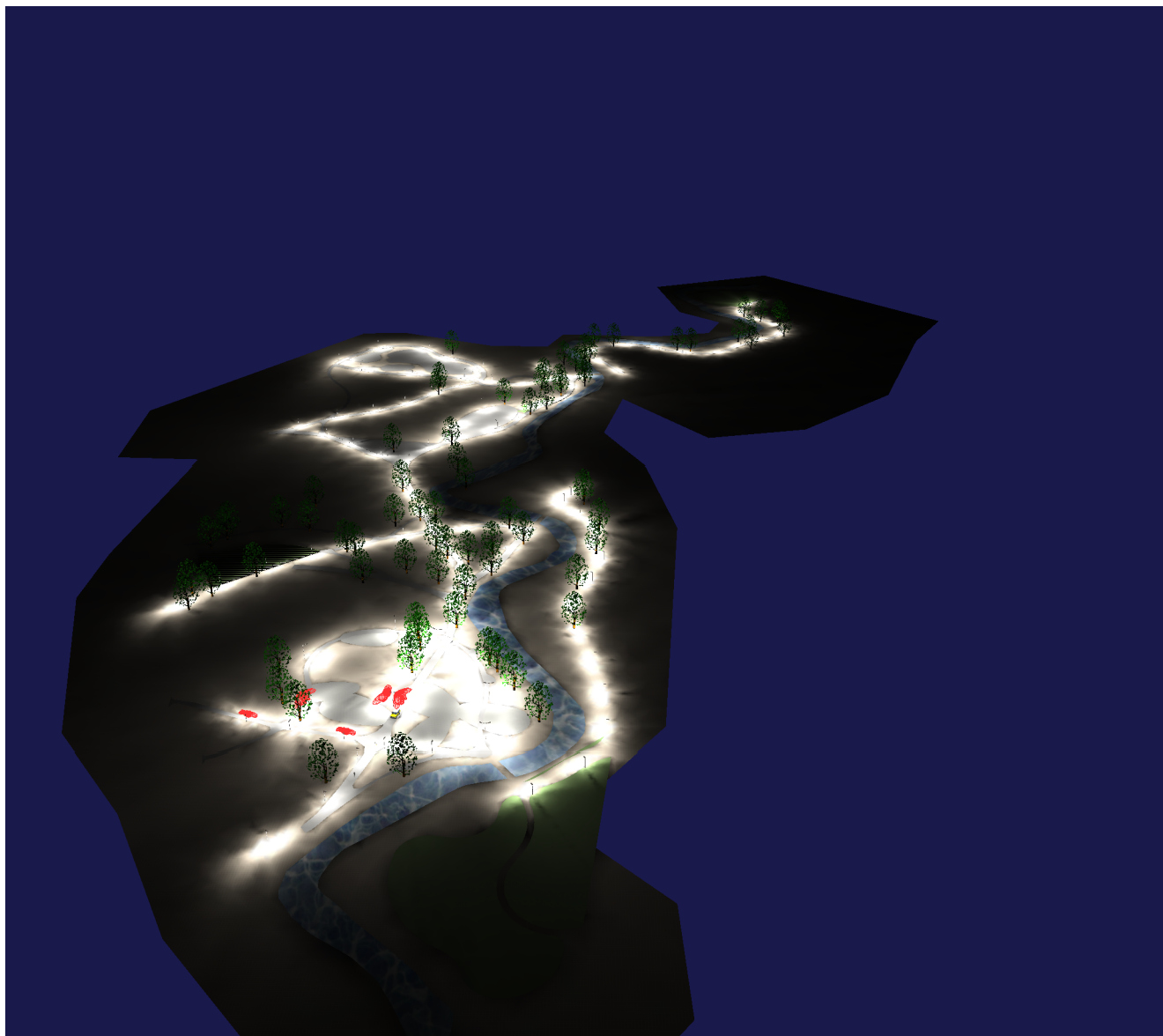
-please put your own address here-

Object : Kekavas
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Project number : 78
Date : 17.12.2014

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Calculation results, Exterior 1

3D luminance, View 2



Luminance in the scene

Minimum: : 0 cd/m²

Maximum: : 71.1 cd/m²

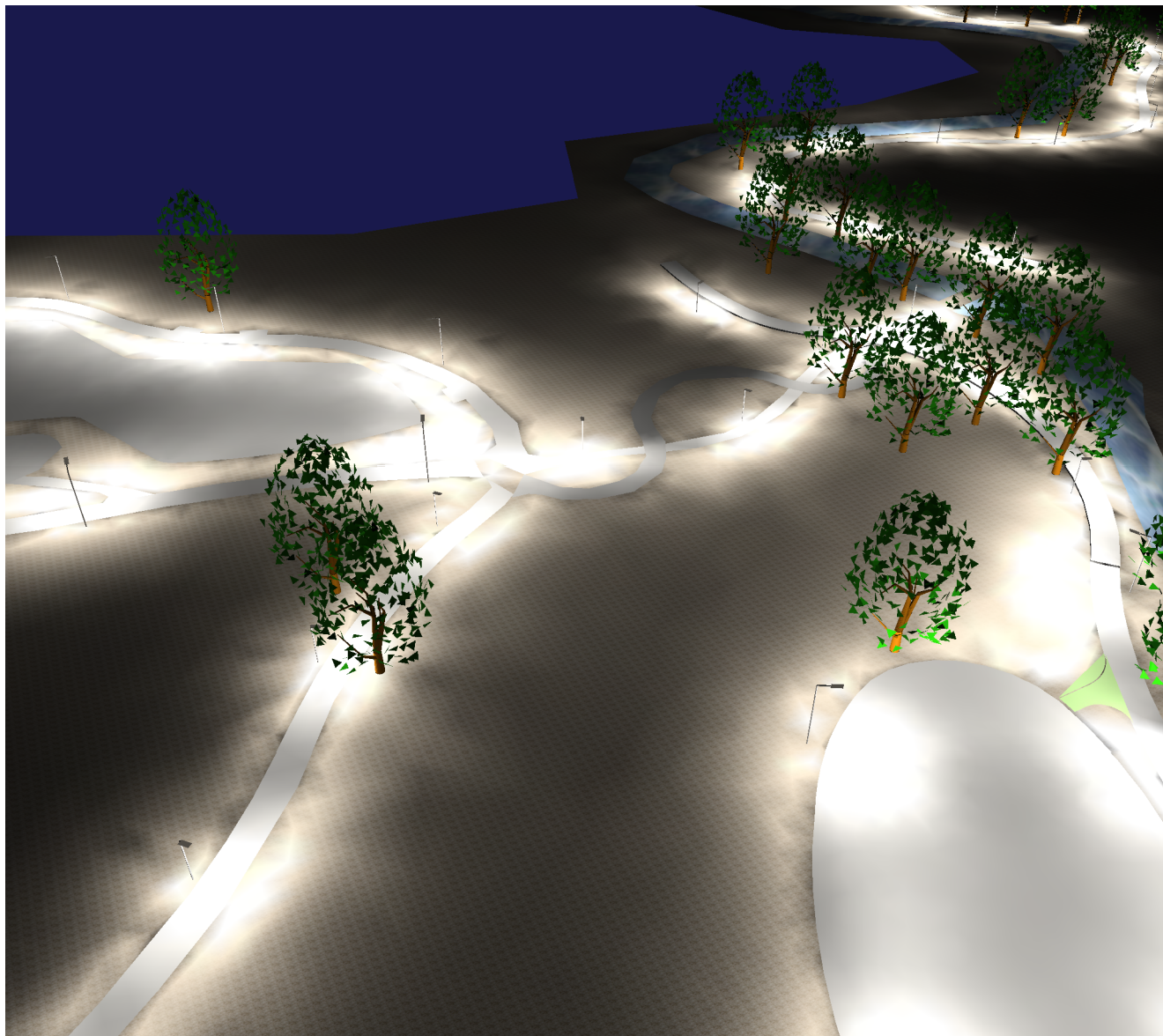
-please put your own address here-

Object : Kekavas
Installation : apgaismojums parka teritorija
Project number : 78
Date : 17.12.2014

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Calculation results, Exterior 1

3D luminance, View 3



Luminance in the scene

Minimum: : 0 cd/m²

Maximum: : 71.1 cd/m²

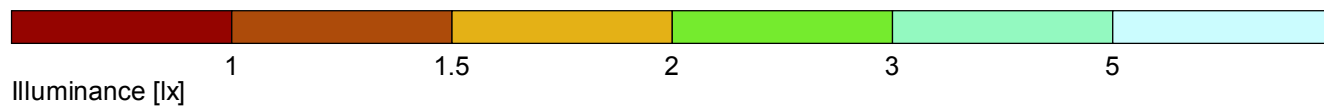
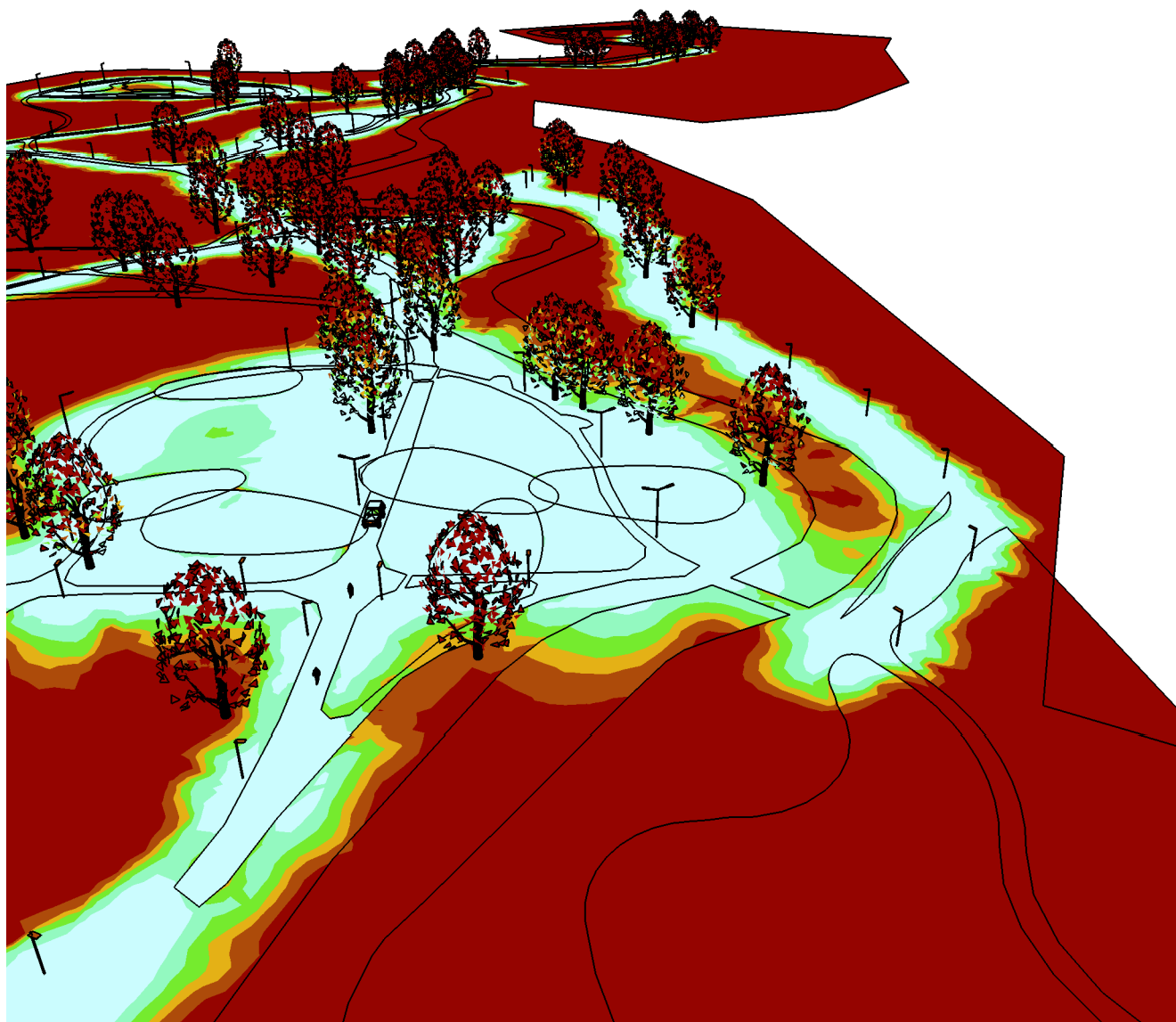
-please put your own address here-

Object : Kekavas
Installation : apgaismojums parka teritorija
Project number : 78
Date : 17.12.2014

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Calculation results, Exterior 1

3D pseudo colours, View 1 (E)



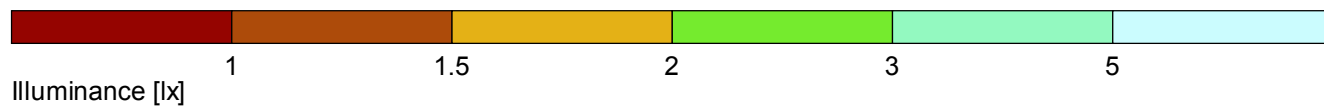
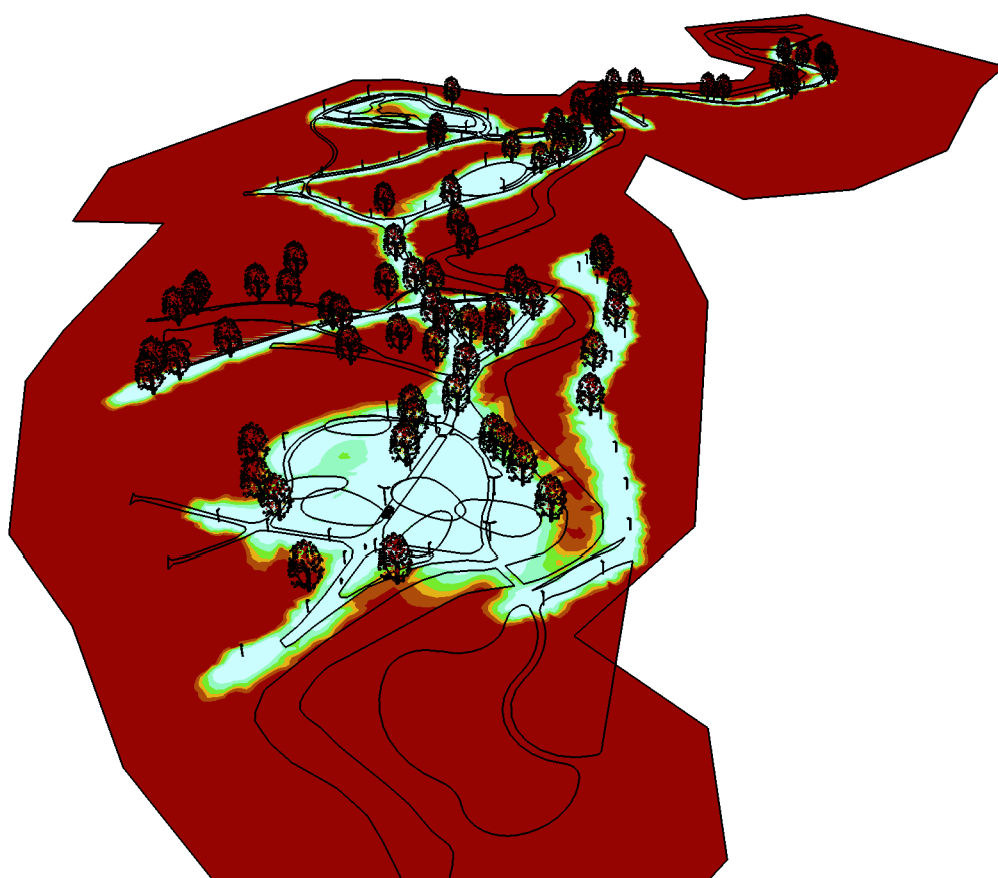
-please put your own address here-

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Date : 17.12.2014

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Calculation results, Exterior 1

3D pseudo colours, View 2 (E)



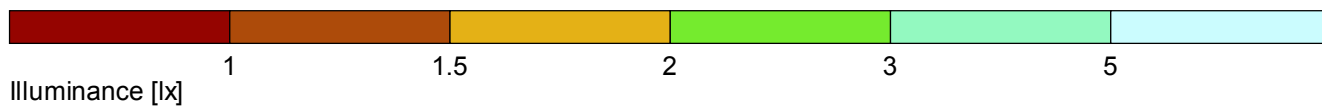
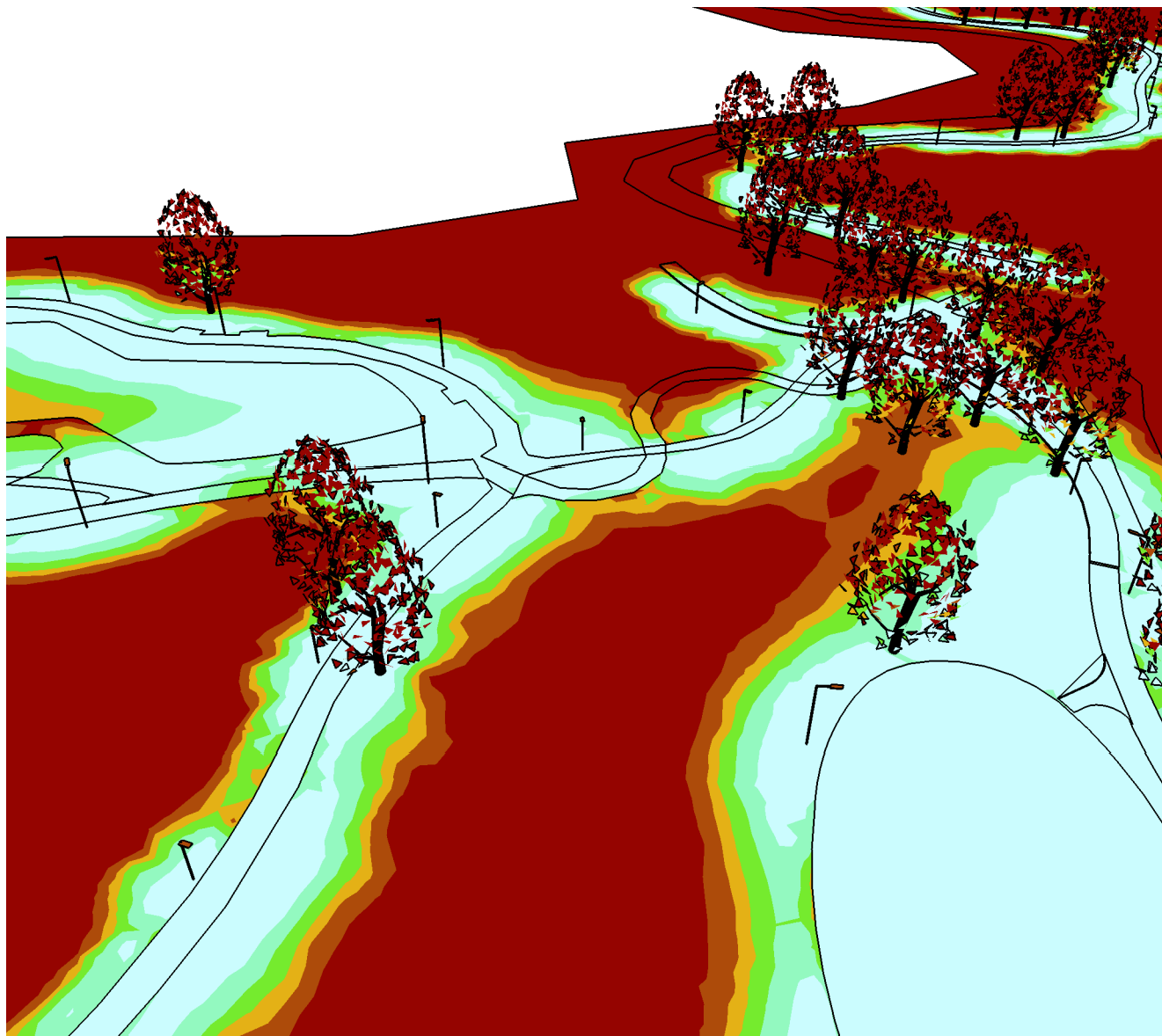
-please put your own address here-

Object : Kekavas
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Calculation results, Exterior 1

3D pseudo colours, View 3 (E)



-please put your own address here-

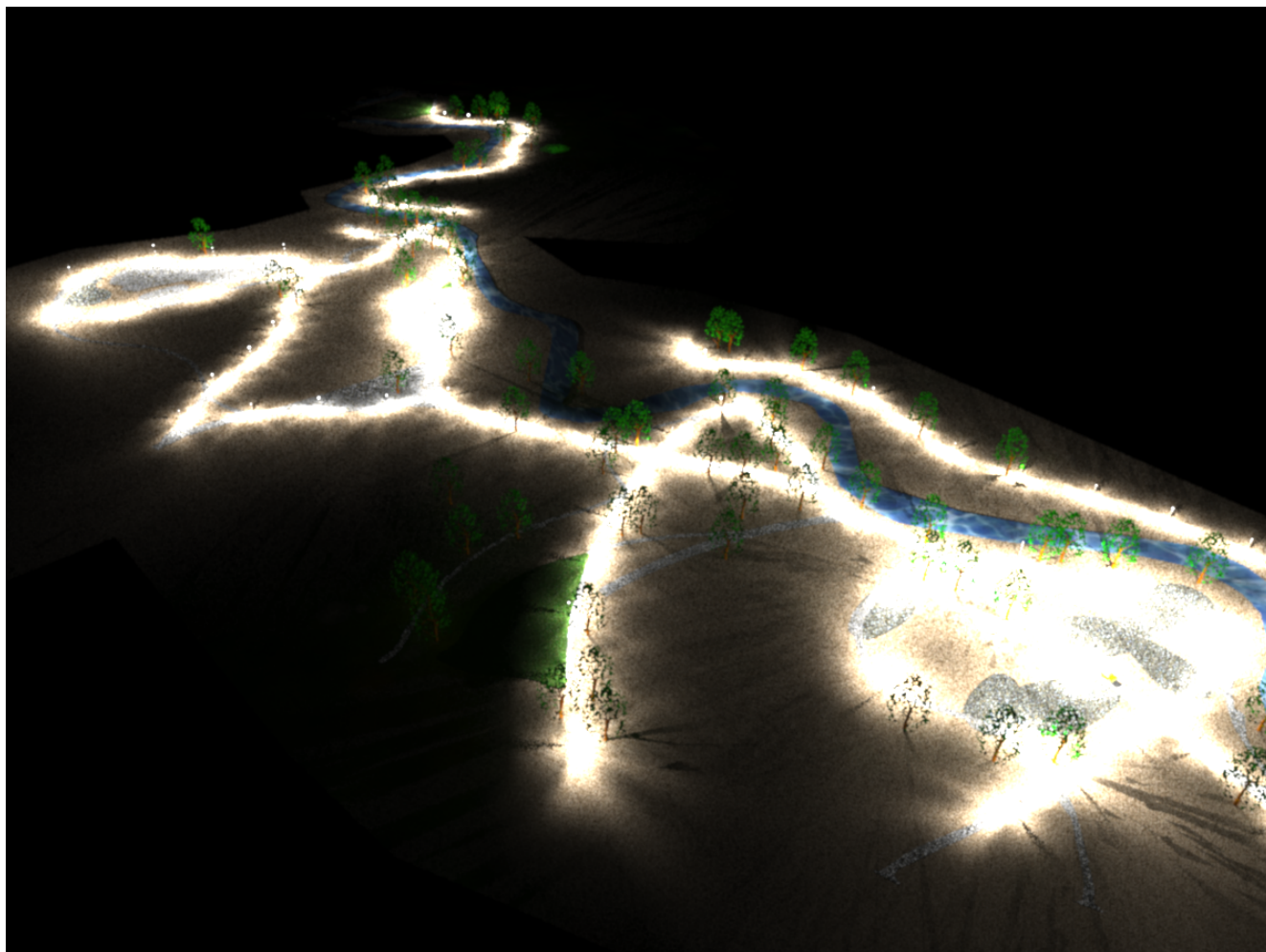
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Exterior 1

Calculation results, Exterior 1

3D luminance (raytracing), Variable view



Luminance in the illustration:

Minimum: : 0 cd/m²

Maximum: : 19.6 cd/m²

Artificial light calculation : Direct part, with 2 inter-reflections

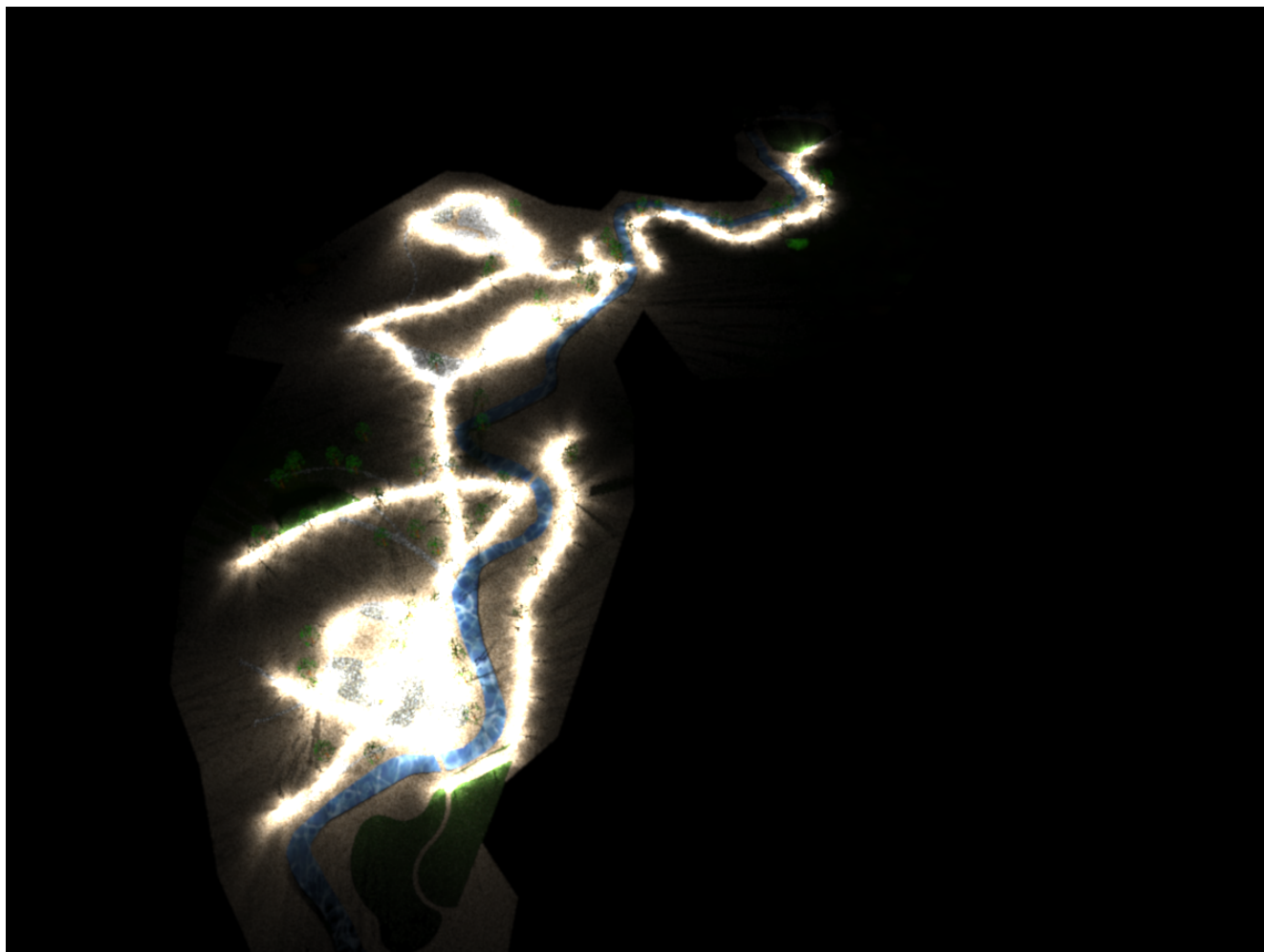
-please put your own address here-

Object : Kekavas
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Project number : 78
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Calculation results, Exterior 1

3D luminance (raytracing), Variable view



Luminance in the illustration:

Minimum: : 0 cd/m²

Maximum: : 14.4 cd/m²

Artificial light calculation : Direct part, with 2 inter-reflections

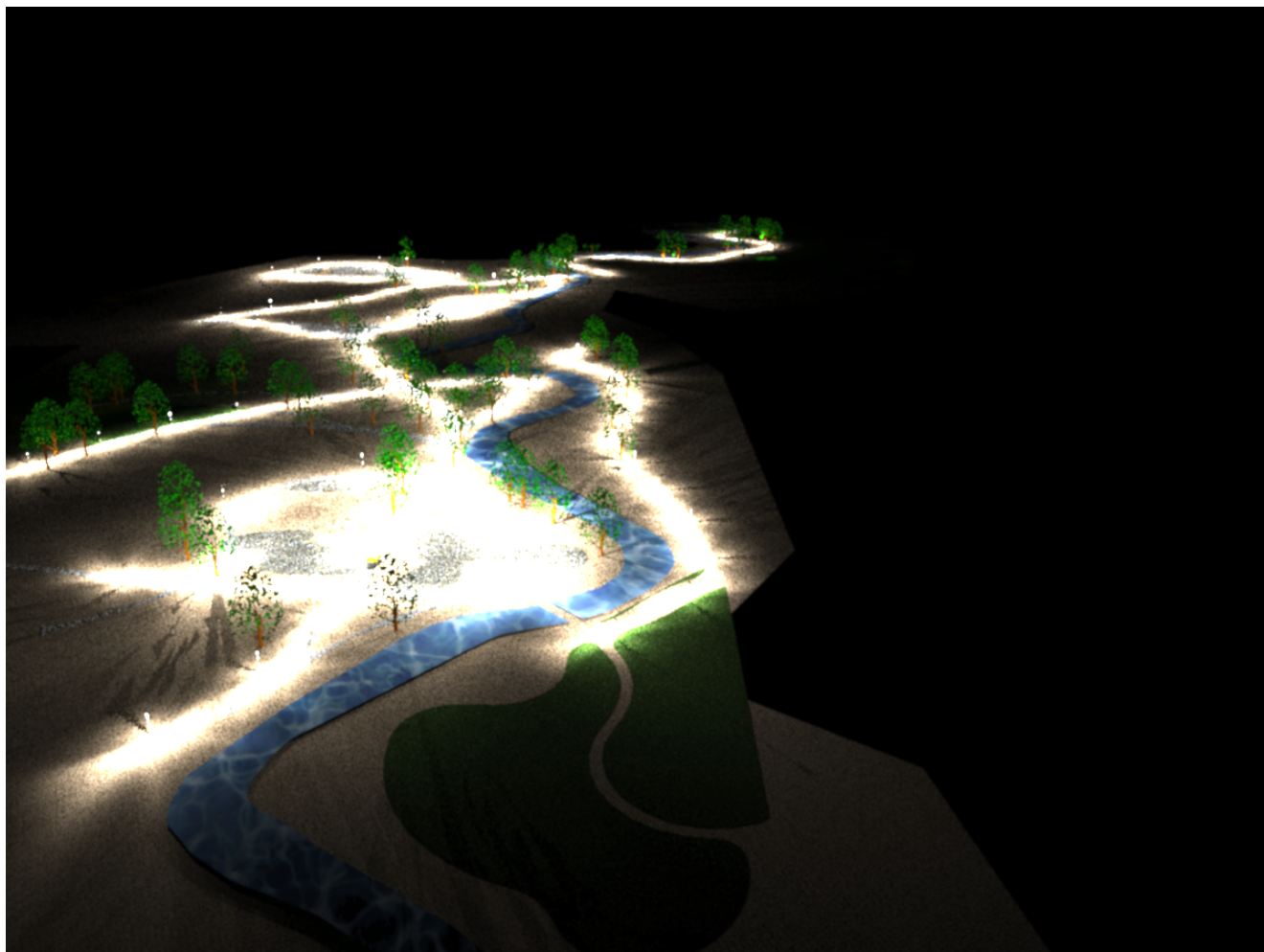
-please put your own address here-

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Project number : 78
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Calculation results, Exterior 1

3D luminance (raytracing), Variable view



Luminance in the illustration:

Minimum: : 0 cd/m²

Maximum: : 14.6 cd/m²

Artificial light calculation : Direct part, with 2 inter-reflections

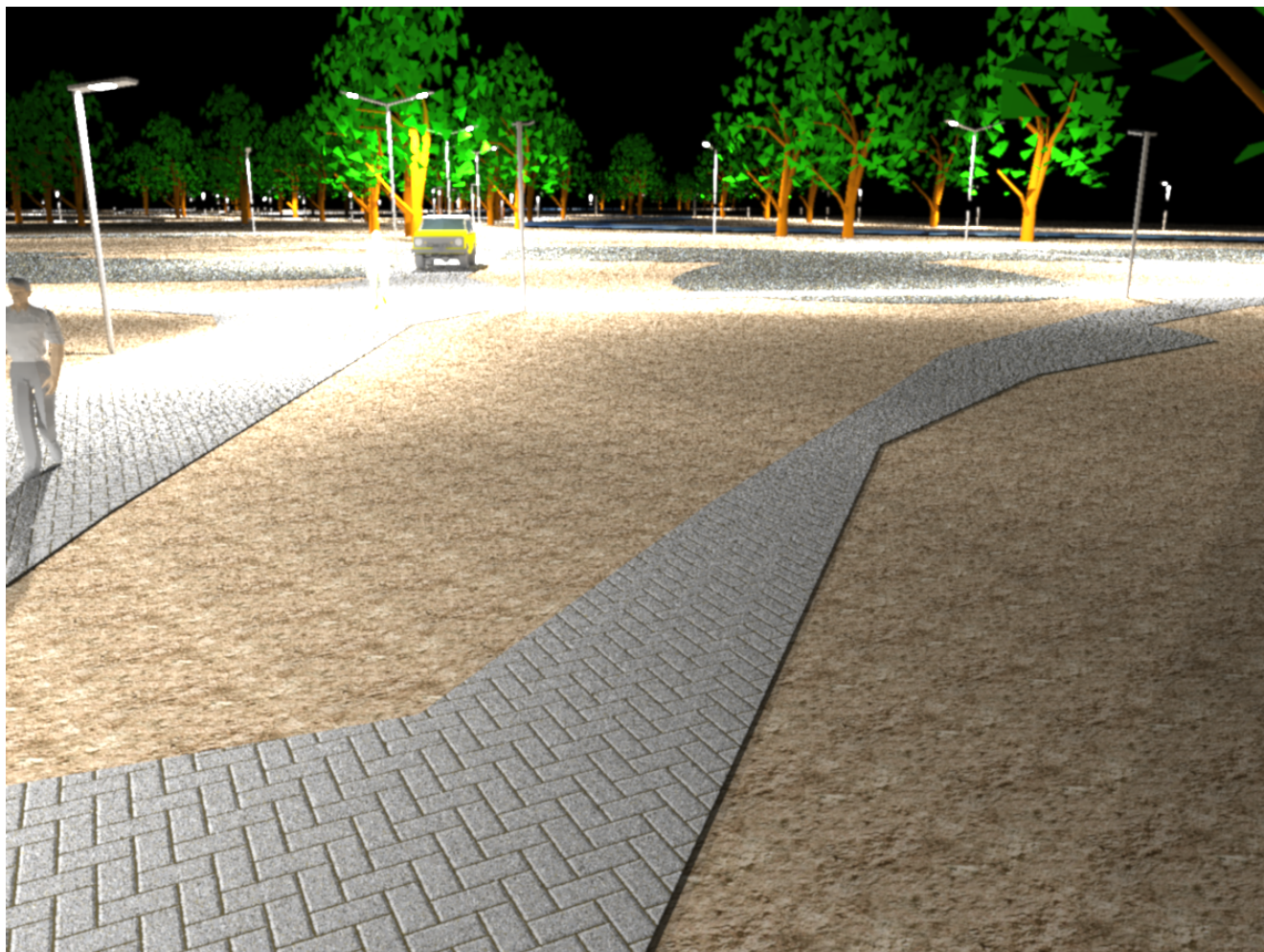
-please put your own address here-

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Project number : 78
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Calculation results, Exterior 1

3D luminance (raytracing), Variable view



Luminance in the illustration:

Minimum: : 0 cd/m²

Maximum: : 1830 cd/m²

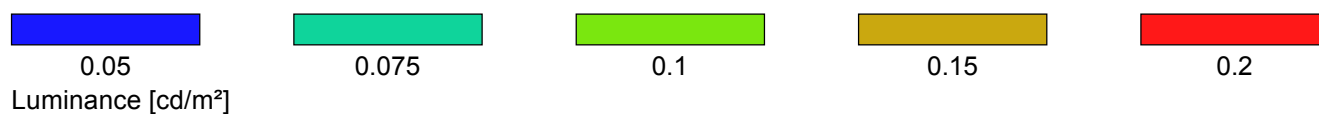
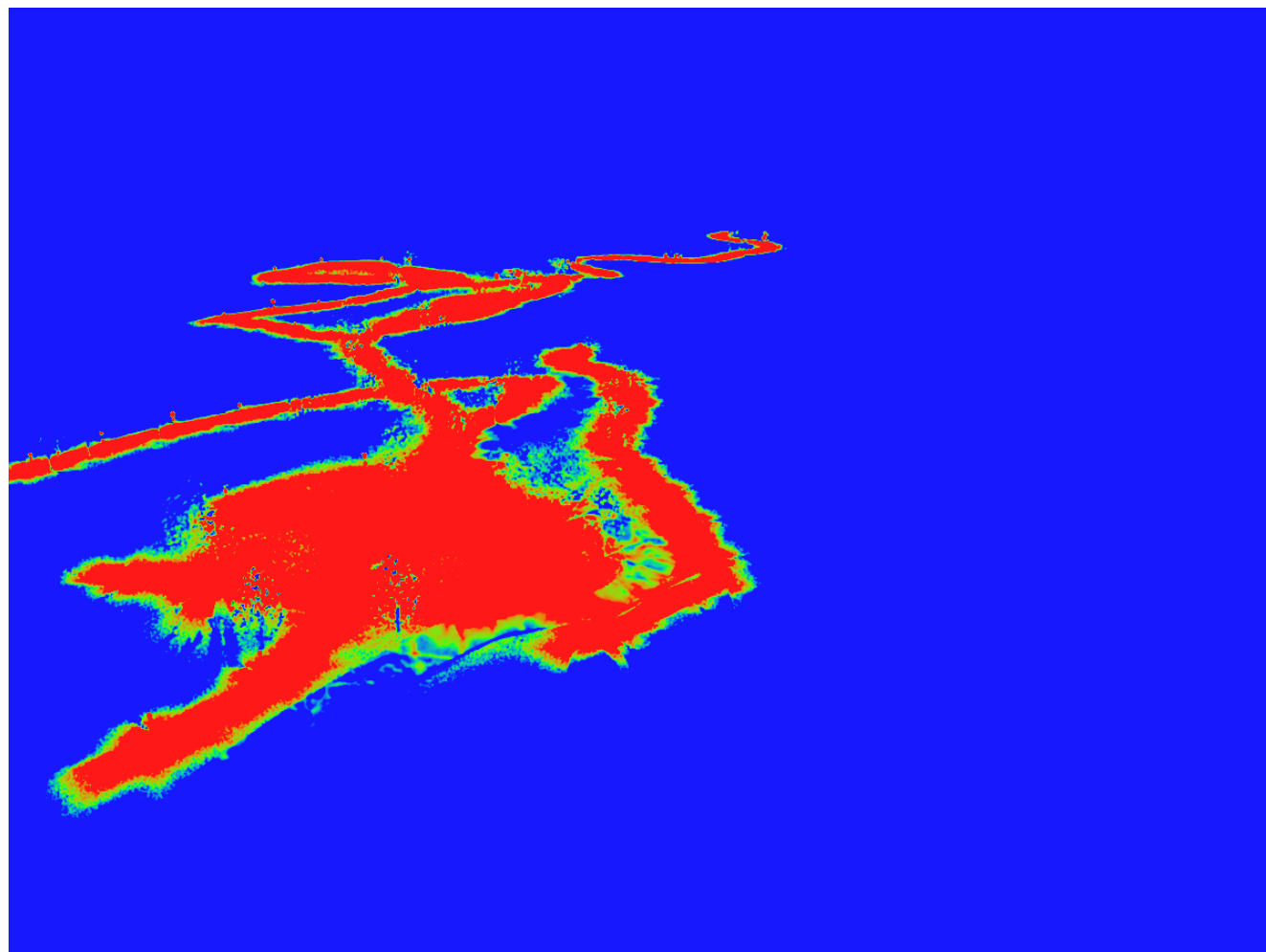
Artificial light calculation : Direct part, with 2 inter-reflections

-please put your own address here-

Object : Kekavas
Installation : apgaismojums parka teritorija
Project number : 78
Date : 17.12.2014

Calculation results, Exterior 1

3D pseudo colours (raytracing), Variable view (E)



Luminance in the illustration:

Minimum: : 0 cd/m²

Maximum: : 14.6 cd/m²

Artificial light calculation : Direct part, with 2 inter-reflections