

Studie verejného osvetlení - komunikace propojovací

Installation :

Project number :

Customer :

Processed by : Ing. Eva Truneckova

Date : 20.12.2007

Project description:

Komunikace propojovací s obousměrným provozem

1. Zadání:

sírka mezi vodicími pruhy	7m
sírka jízdního pruhu	3.5m
počet jízdních pruhů v jednom směru	1
umístění stozaru od hrany komunikace	1m

2. Pozadavky dle CSN EN 13201 - ME5:

průměrná hodnota jasu	> 0.5cd/m ²
celková rovnoměrnost	> 0.35
podélná rovnoměrnost	> 0.4
cinictel oslnění	< 15%
osvětlenost okolí	> 0.5

3. Variantní zpracování studie:

- výška stozaru 8m, resp. 10m
- umístění svítidla přímo na sloupu, na výložníku 1m, resp. na výložníku 1.5m
- osvětlovací soustava stridava, resp. oboustranná

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.

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1 Luminaire data

1.1 Thorn, CIVIC 2 150W HID 240V CL1 EFL + HIT-CE ... ()

1.1.1 Data sheet

Manufacturer: Thorn

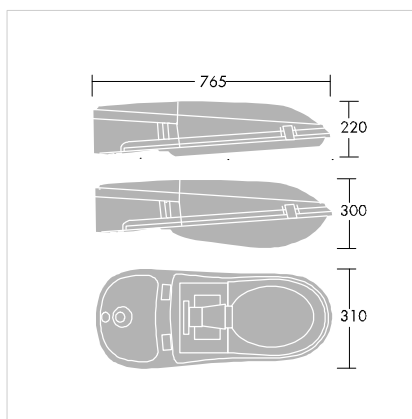
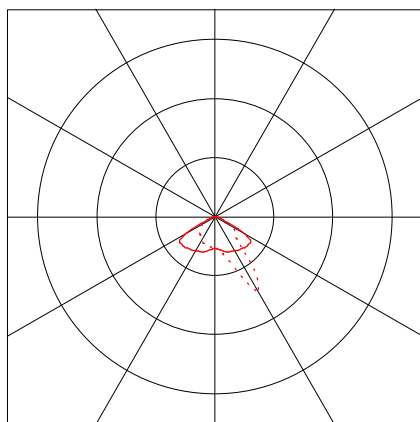
CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]

Luminaire data

Luminaires efficiency : 64.6% (A30)
Control gear :
System power : 170 W
Length : 765 mm
Width : 310 mm
Height : 300 mm

Equipped with

Number of : 1
Designation : HIT-CE
Power : 150 W
Colour :
Luminous flux : 14000 lm

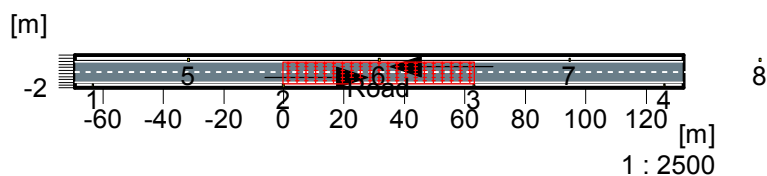


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2 Komunikace propojovací var. 1

2.1 Description, Komunikace propojovací var. 1

2.1.1 Floor plan

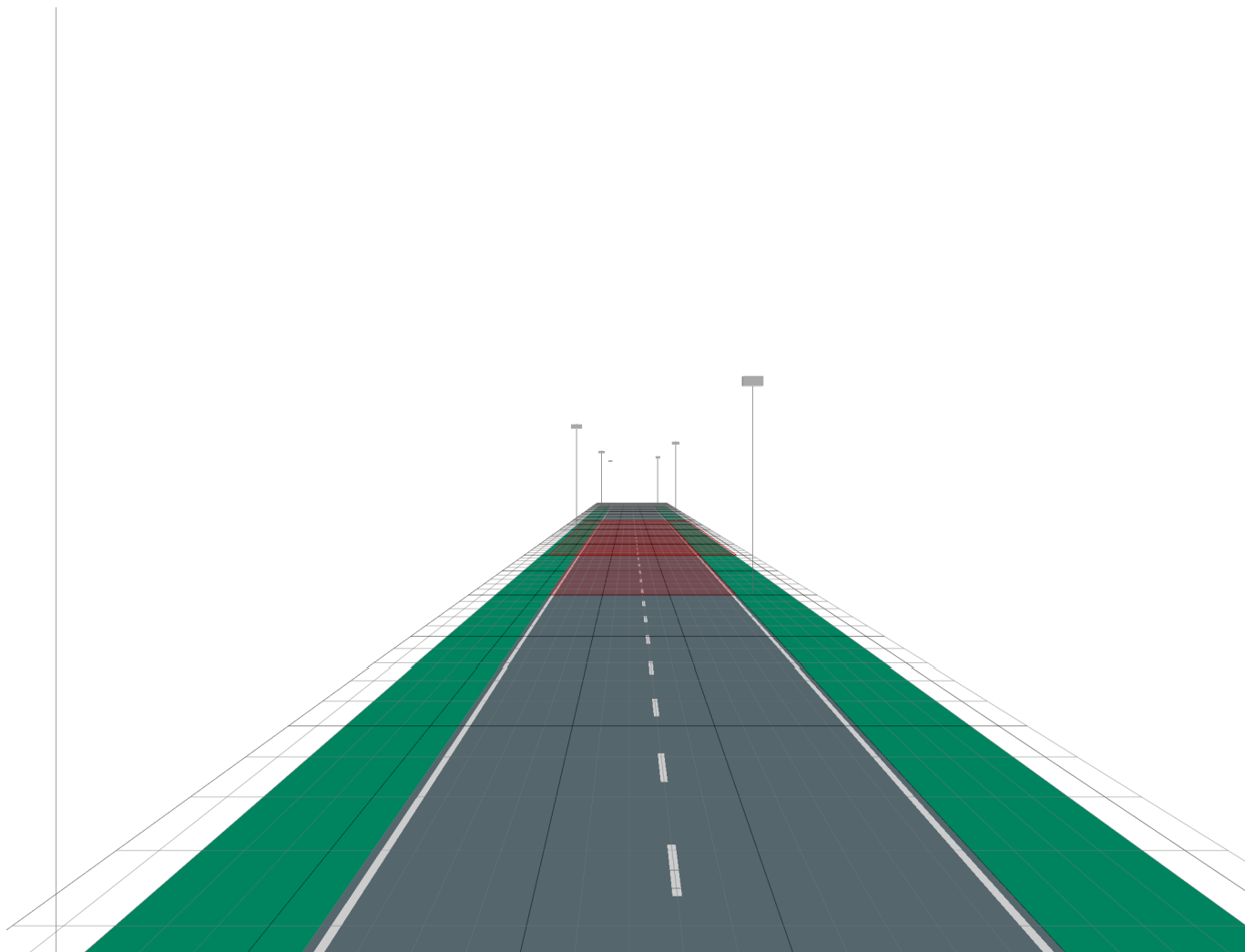


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway	: 7.00 m	photometric centre height	: 8.00 m
No. of lanes	: 2	Luminaire spacing	: 63.00 m
Road surface category	: R3	Luminaires - outreach	: -0.60 m
q0	: 0.07	Inclination	: 0.00°

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2.1 Description, Komunikace propojovací var. 1

2.1.2 3D view, View from the left



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2 Komunikace propojovací var. 1

2.2 Summary, Komunikace propojovací var. 1

2.2.1 Result overview, Road

Luminaire data

Manufacturer : Thorn
Order No. : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5] ()
Luminaire name : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]
Equipment : 1 x HIT-CE 150 W / 14000 lm

Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway	(b): 7.00 m	photometric centre height. (h)	: 8.00 m
No. of lanes	: 2	Luminaire spacing	(a): 63.00 m
Road surface category	: R3	Luminaires - outreach	(u): -0.60 m
q0	: 0.07	Inclination	(δ): 0.00°
Right hand drivers		Reduction factor	: 0.60

Luminance

Observer location 1 : x=-60.00m, y=1.75m, z=1.50m
Average : 0.53 cd/m²
U0 (min/average) : 0.46

Observer location 2 : x=154.50m, y=5.25m, z=1.50m
Average : 0.53 cd/m²
U0 (min/average) : 0.46

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.41
UI (B2: x = 154.50, y = 5.25, z = 1.50) : 0.41

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2 Komunikace propojovací var. 1

2.2 Summary, Komunikace propojovací var. 1

2.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 3.51 %
SR	: 0.6

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2 Komunikace propojovací var. 1

2.3 Calculation results, Komunikace propojovací var. 1

2.3.1 Table, Road (L)

[m]	0.28	0.41	0.51	0.49	0.45	0.63	0.83	0.84	0.77	0.65	0.43	0.45	0.33	0.27
6.42	0.52	0.6	0.51	0.44	0.46	0.61	0.78	0.76	0.77	0.74	0.51	0.53	0.36	0.3
5.25	0.74	0.65	0.43	0.37	0.4	0.49	0.66	0.67	0.78	0.81	0.64	0.63	0.41	0.32
4.08	0.69	0.53	0.36	0.33	0.34	0.41	0.53	0.62	0.79	[0.87]	0.73	0.73	0.5	0.35
2.92	0.54	0.44	0.33	0.31	0.31	0.37	0.48	0.62	0.75	0.65	0.47	0.58	0.57	0.42
1.75	0.46	0.39	0.3	0.27	0.3	0.36	0.54	0.61	0.57	0.37	(0.24)	0.35	0.5	0.49
0.58	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50	34.50	37.50	40.50
	Luminance [cd/m2]													

Part1

Observer location 1		: x = -60, y = 1.75, z = 1.5
Average luminance	Lav	: 0.53 cd/m ²
Minimum luminance	Lmin	: 0.24 cd/m ²
Overall uniformity U0	Lmin/Lm	: 0.46
Threshold increment	TI	: 3.5 %
Longitudinal uniformity UI	Llmin/Llmax	: 0.41

Object : Studie verejného osvetlení - komunikace propojovací
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2 Komunikace propojovací var. 1

2.3 Calculation results, Komunikace propojovací var. 1

2.3.1 Table, Road (L)

0,27 └	0,31 └	0,45 └	0,6 └	0,59 └	0,44 └	0,28 └
0,3 └	0,31 └	0,4 └	0,53 └	0,67 └	0,71 └	0,53 └
0,31 └	0,32 └	0,43 └	0,54 └	0,66 └	0,85 └	0,78 └
0,33 └	0,38 └	0,51 └	0,61 └	0,67 └	0,8 └	0,77 └
0,37 └	0,44 └	0,63 └	0,71 └	0,71 └	0,75 └	0,62 └
0,44 └	0,47 └	0,72 └	0,81 └	0,79 └	0,7 └	0,55 └
43.50	46.50	49.50	52.50	55.50	58.50	61.50 [m]

Part2

Object : Studie verejného osvetlení - komunikace propojovací
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2.3 Calculation results, Komunikace propojovací var. 1

2.3.2 Table, Road (L)

[m]	0.55	0.7	0.79	0.81	0.72	0.47	0.44	0.49	0.5	0.35	(0.24)	0.37	0.57	0.61
6.42	0.62	0.75	0.71	0.71	0.63	0.44	0.37	0.42	0.57	0.58	0.47	0.65	0.75	0.62
5.25	0.77	0.8	0.67	0.61	0.51	0.38	0.33	0.35	0.5	0.73	0.73	[0.87]	0.79	0.62
4.08	0.78	0.85	0.66	0.54	0.43	0.32	0.31	0.32	0.41	0.63	0.64	0.81	0.78	0.67
2.92	0.53	0.71	0.67	0.53	0.4	0.31	0.3	0.3	0.36	0.53	0.51	0.74	0.77	0.76
1.75	0.28	0.44	0.59	0.6	0.45	0.31	0.27	0.27	0.33	0.45	0.43	0.65	0.77	0.84
0.58	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50	34.50	37.50	40.50
	Luminance [cd/m2]													

Part1

Observer location 2	: x = 154, y = 5.25, z = 1.5
Average luminance	Lav : 0.53 cd/m ²
Minimum luminance	Lmin : 0.24 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.46
Threshold increment	TI : 3.5 %
Longitudinal uniformity UI	Llmin/Llmax : 0.41

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2.3 Calculation results, Komunikace propojovací var. 1

2.3.2 Table, Road (L)

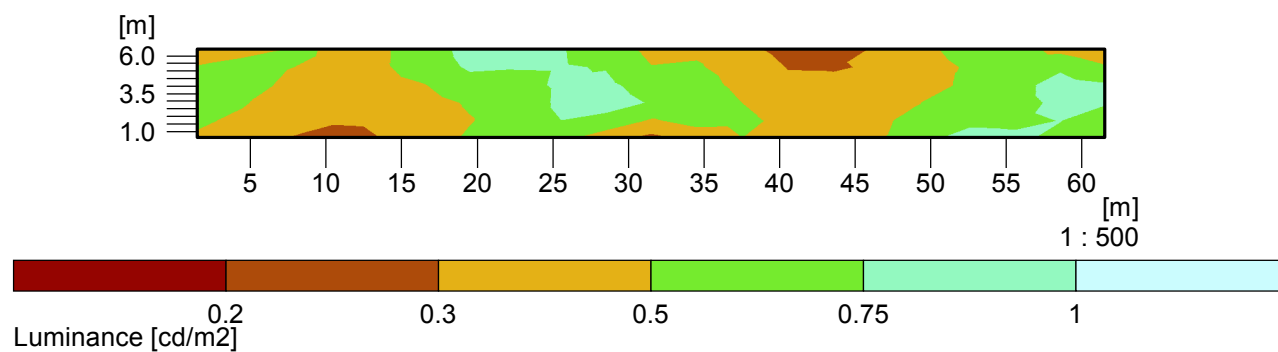
0.54	0.36	0.3	0.27	0.3	0.39	0.46
0.48	0.37	0.31	0.31	0.33	0.44	0.54
0.53	0.41	0.34	0.33	0.36	0.53	0.69
0.66	0.49	0.4	0.37	0.43	0.65	0.74
0.78	0.61	0.46	0.44	0.51	0.6	0.52
0.83	0.63	0.45	0.49	0.51	0.41	0.28
43.50	46.50	49.50	52.50	55.50	58.50	61.50 [m]

Part2

Object : Studie verejného osvetlení - komunikace propojovací
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2.3 Calculation results, Komunikace propojovací var. 1

2.3.3 Pseudo colours, Road (L)

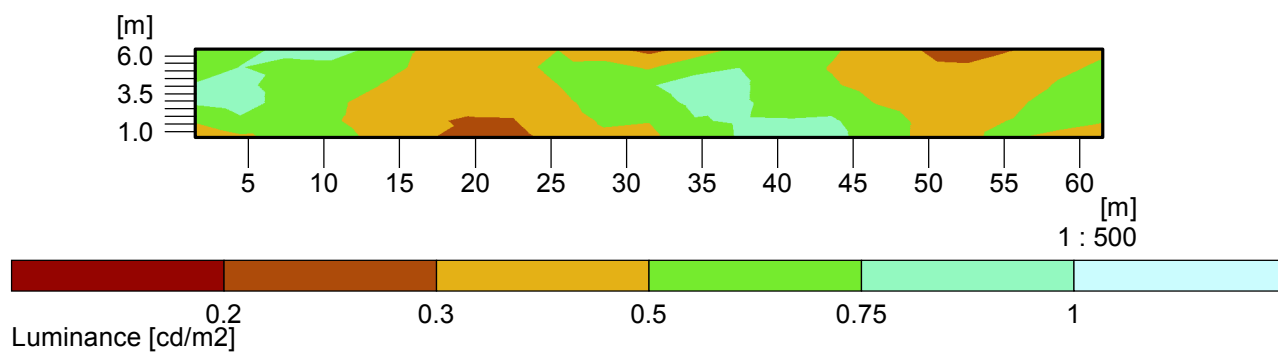


Observer location 1		: x = -60, y = 1.75, z = 1.5
Average luminance	Lav	: 0.53 cd/m ²
Minimum luminance	Lmin	: 0.24 cd/m ²
Overall uniformity U0	Lmin/Lm	: 0.46
Threshold increment	TI	: 3.5 %
Longitudinal uniformity UI	Lmin/Lmax	: 0.41

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2.3 Calculation results, Komunikace propojovací var. 1

2.3.4 Pseudo colours, Road (L)

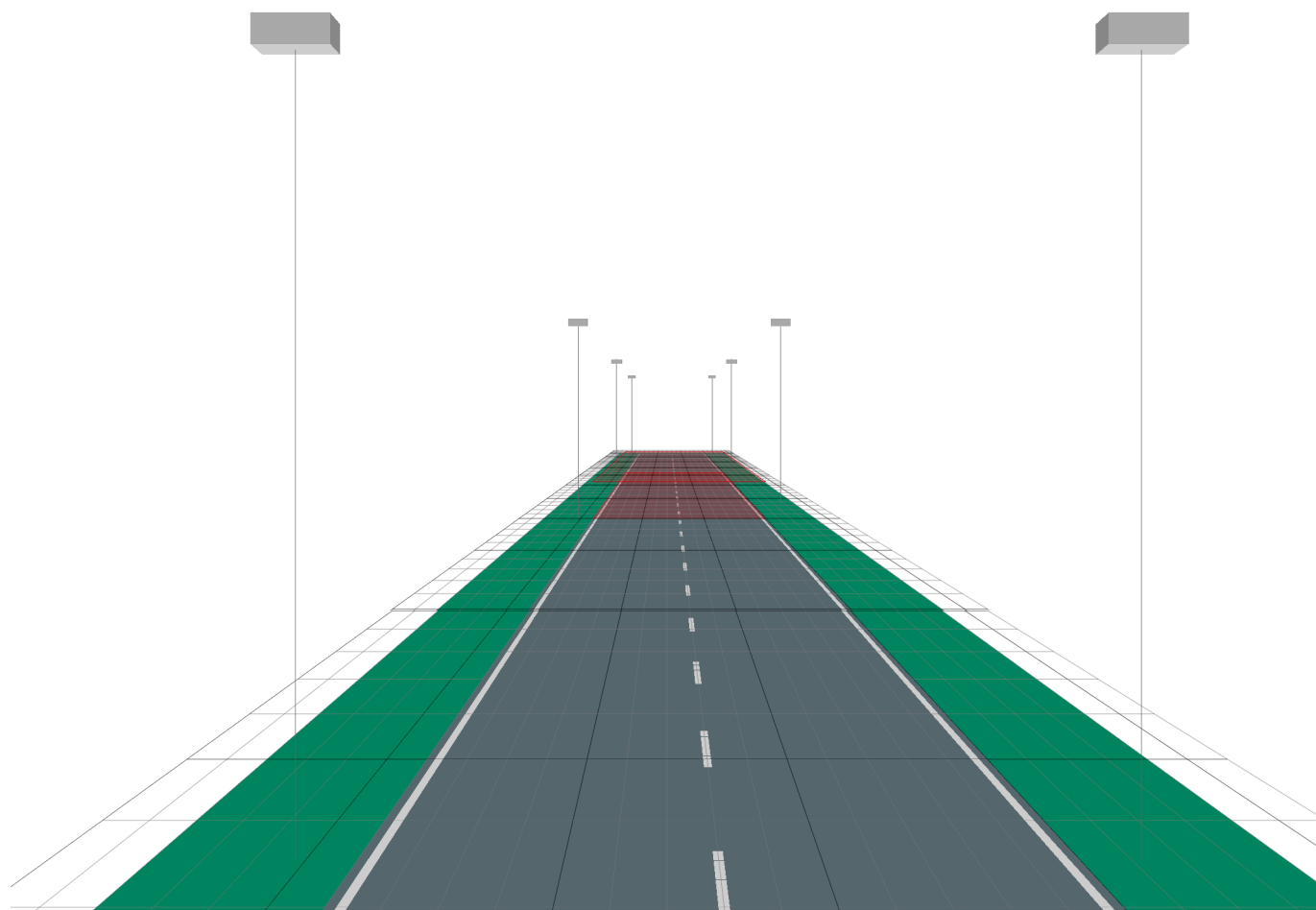


Observer location 2	: x = 154, y = 5.25, z = 1.5
Average luminance	Lav : 0.53 cd/m²
Minimum luminance	Lmin : 0.24 cd/m²
Overall uniformity U0	Lmin/Lm : 0.46
Threshold increment	TI : 3.5 %
Longitudinal uniformity UI	Lmin/Lmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
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3.1 Description, Komunikace propojovací var. 2

3.1.2 3D view, View from the left



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3 Komunikace propojovací var. 2

3.2 Summary, Komunikace propojovací var. 2

3.2.1 Result overview, Road

Luminaire data

Manufacturer : Thorn
Order No. : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5] ()
Luminaire name : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]
Equipment : 1 x HIT-CE 150 W / 14000 lm

Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	(b): 7.00 m	photometric centre height. (h):	8.00 m
No. of lanes	: 2	Luminaire spacing	(a): 33.00 m
Road surface category	: R3	Luminaires - outreach	(u): -0.60 m
q0	: 0.07	Inclination	(δ): 0.00°
Right hand drivers		Reduction factor	: 0.60

Luminance

Observer location 1 : x=-60.00m, y=1.75m, z=1.50m
Average : 1.01 cd/m²
U0 (min/average) : 0.59

Observer location 2 : x=93.00m, y=5.25m, z=1.50m
Average : 1.01 cd/m²
U0 (min/average) : 0.59

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.41
UI (B2: x = 93.00, y = 5.25, z = 1.50) : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
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3 Komunikace propojovací var. 2

3.2 Summary, Komunikace propojovací var. 2

3.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 4.43 %
SR	: 0.59

Object : Studie verejného osvetlení - komunikace propojovací
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3 Komunikace propojovací var. 2

3.3 Calculation results, Komunikace propojovací var. 2

3.3.1 Table, Road (L)

[m]	0.73	0.77	0.77	0.69	0.62	0.73	1.17	1.42	1.38	1.14	0.82
6.42	└	└	└	└	└	└	└	└	└	└	└
5.25	1.05	1.02	0.79	0.65	0.63	0.75	1.08	1.29	1.39	1.47	1.15
	└	└	└	└	└	└	└	└	└	└	└
4.08	1.41	1.16	0.73	0.6	0.6	0.69	0.97	1.17	1.35	[1.67]	1.55
	└	└	└	└	└	└	└	└	└	└	└
2.92	1.41	1.15	0.73	(0.59)	(0.59)	0.67	0.95	1.17	1.35	1.66	1.55
	└	└	└	└	└	└	└	└	└	└	└
1.75	1.04	1.01	0.77	0.63	0.6	0.7	1.03	1.26	1.4	1.47	1.14
	└	└	└	└	└	└	└	└	└	└	└
0.58	0.73	0.78	0.77	0.7	0.63	0.73	1.16	1.42	1.39	1.14	0.82
	└	└	└	└	└	└	└	└	└	└	└
	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50 [m]
	Luminance [cd/m2]										

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 1.01 cd/m ²
Minimum luminance	Lmin : 0.59 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.59
Threshold increment	TI : 4.4 %
Longitudinal uniformity UI	Llmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
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3.3 Calculation results, Komunikace propojovací var. 2

3.3.2 Table, Road (L)

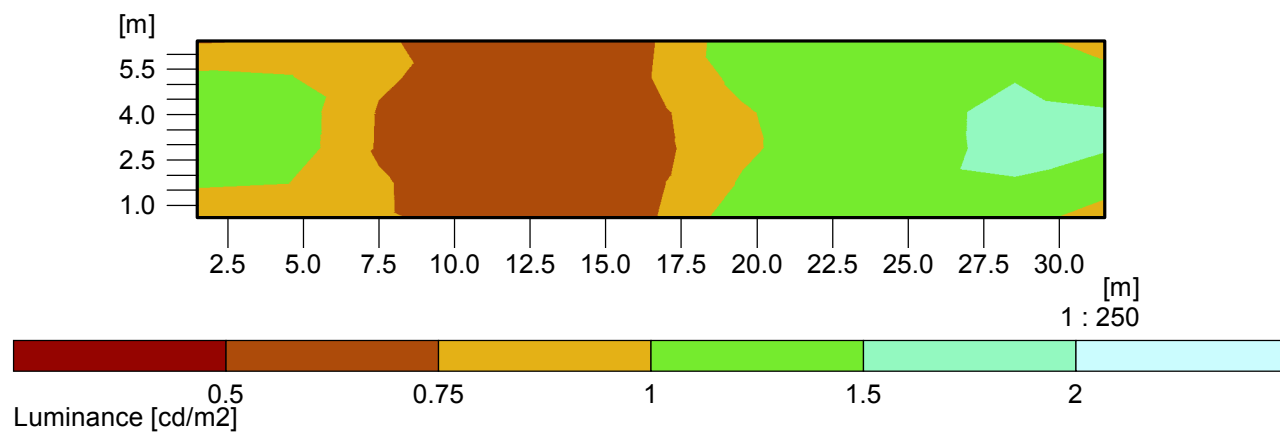
[m]	0.82	1.14	1.39	1.42	1.16	0.73	0.63	0.7	0.77	0.78	0.73
6.42	0.82	1.14	1.39	1.42	1.16	0.73	0.63	0.7	0.77	0.78	0.73
5.25	1.14	1.47	1.4	1.26	1.03	0.7	0.6	0.63	0.77	1.01	1.04
4.08	1.55	1.66	1.35	1.17	0.95	0.67	(0.59)	(0.59)	0.73	1.15	1.41
2.92	1.55	[1.67]	1.35	1.17	0.97	0.69	0.6	0.6	0.73	1.16	1.41
1.75	1.15	1.47	1.39	1.29	1.08	0.75	0.63	0.65	0.79	1.02	1.05
0.58	0.82	1.14	1.38	1.42	1.17	0.73	0.62	0.69	0.77	0.77	0.73
	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50 [m]
	Luminance [cd/m2]										

Observer location 2	: x = 93, y = 5.25, z = 1.5
Average luminance	Lav : 1.01 cd/m ²
Minimum luminance	Lmin : 0.59 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.59
Threshold increment	TI : 4.4 %
Longitudinal uniformity UI	Llmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
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3.3 Calculation results, Komunikace propojovací var. 2

3.3.3 Pseudo colours, Road (L)

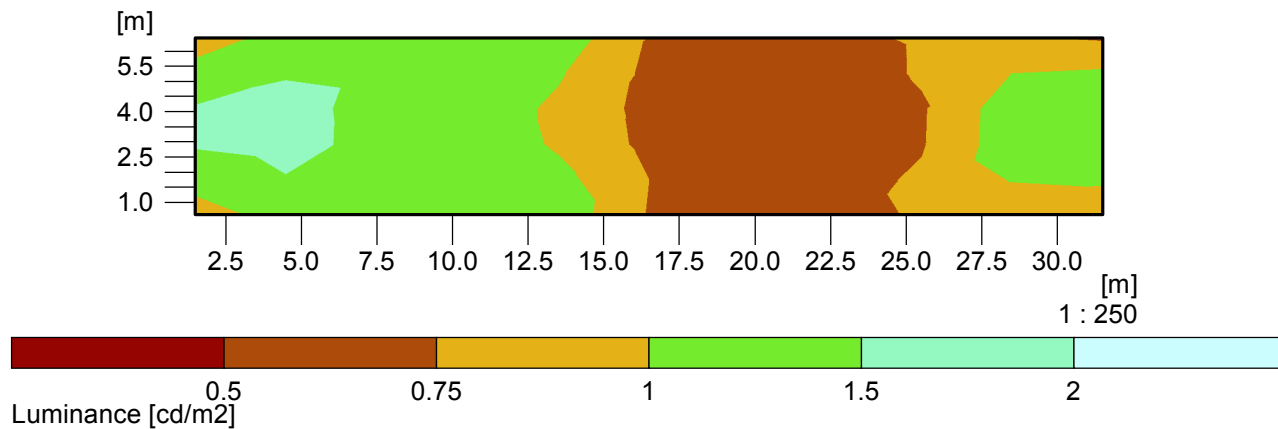


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 1.01 cd/m ²
Minimum luminance	Lmin : 0.59 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.59
Threshold increment	TI : 4.4 %
Longitudinal uniformity UI	Lmin/Lmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
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3.3 Calculation results, Komunikace propojovací var. 2

3.3.4 Pseudo colours, Road (L)



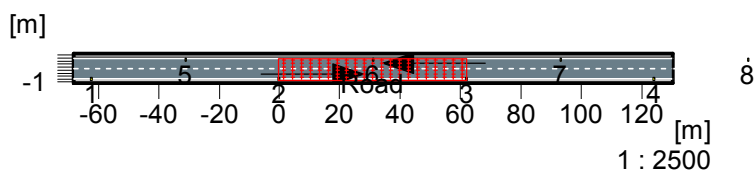
Observer location 2	: x = 93, y = 5.25, z = 1.5
Average luminance	Lav : 1.01 cd/m ²
Minimum luminance	Lmin : 0.59 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.59
Threshold increment	TI : 4.4 %
Longitudinal uniformity UI	Lmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
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4 Komunikace propojovací var. 3

4.1 Description, Komunikace propojovací var. 3

4.1.1 Floor plan

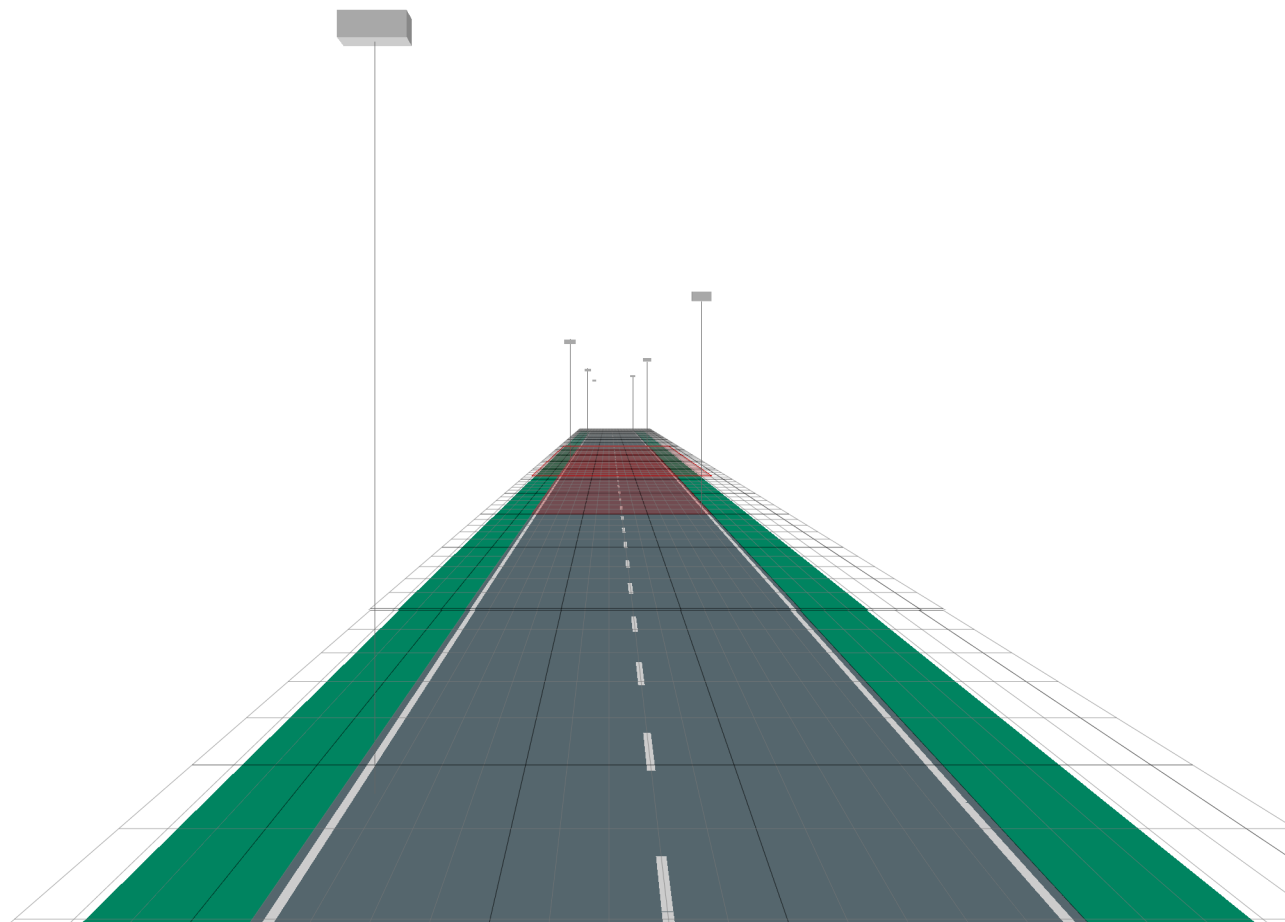


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway	: 7.00 m	photometric centre height	: 8.50 m
No. of lanes	: 2	Luminaire spacing	: 62.00 m
Road surface category	: R3	Luminaires - outreach	: 0.40 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace propojovací
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4.1 Description, Komunikace propojovací var. 3

4.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace propojovací
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4 Komunikace propojovací var. 3

4.2 Summary, Komunikace propojovací var. 3

4.2.1 Result overview, Road

Luminaire data

Manufacturer : Thorn
Order No. : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5] ()
Luminaire name : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]
Equipment : 1 x HIT-CE 150 W / 14000 lm

Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway (b):	7.00 m	photometric centre height. (h):	8.50 m
No. of lanes	: 2	Luminaire spacing (a):	62.00 m
Road surface category	: R3	Luminaires - outreach (u):	0.40 m
q0	: 0.07	Inclination (δ):	0.00°
Right hand drivers		Reduction factor	: 0.60

Luminance

Observer location 1 : x=-60.00m, y=1.75m, z=1.50m
Average : 0.5 cd/m²
U0 (min/average) : 0.52

Observer location 2 : x=153.00m, y=5.25m, z=1.50m
Average : 0.5 cd/m²
U0 (min/average) : 0.52

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.40
UI (B2: x = 153.00, y = 5.25, z = 1.50) : 0.40

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4 Komunikace propojovací var. 3

4.2 Summary, Komunikace propojovací var. 3

4.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 3.02 %
SR	: 0.7

Object : Studie verejného osvetlení - komunikace propojovací
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4 Komunikace propojovací var. 3

4.3 Calculation results, Komunikace propojovací var. 3

4.3.1 Table, Road (L)

[m]	0.5	0.55	0.46	0.36	0.36	0.56	0.68	0.67	0.6	0.52	0.38	0.36	0.3	(0.26)
6.42	0.68	0.62	0.43	0.38	0.44	0.66	0.76	0.74	0.67	0.57	0.39	0.42	0.33	0.29
5.25	0.63	0.52	0.39	0.38	0.45	0.6	0.68	0.66	0.69	0.64	0.46	0.49	0.36	0.31
4.08	0.5	0.44	0.35	0.34	0.39	0.49	0.57	0.59	0.7	0.72	0.56	0.58	0.41	0.34
2.92	0.42	0.38	0.32	0.31	0.33	0.4	0.49	0.56	0.71	[0.78]	0.67	0.68	0.5	0.37
1.75	0.37	0.34	0.28	0.27	0.3	0.36	0.45	0.56	0.68	0.6	0.47	0.56	0.54	0.41
0.58	1.48	4.43	7.38	10.33	13.29	16.24	19.19	22.14	25.10	28.05	31.00	33.95	36.90	39.86
	Luminance [cd/m2]													

Part1

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.5 cd/m ²
Minimum luminance	Lmin : 0.26 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.52
Threshold increment	TI : 3 %
Longitudinal uniformity UI	Llmin/Llmax : 0.4

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

4 Komunikace propojovací var. 3

4.3 Calculation results, Komunikace propojovací var. 3

4.3.1 Table, Road (L)

0.27	0.3	0.37	0.48	0.62	0.65	0.52
0.3	0.33	0.42	0.49	0.62	0.77	0.72
0.33	0.39	0.5	0.54	0.62	0.71	0.68
0.35	0.45	0.6	0.61	0.63	0.67	0.55
0.36	0.5	0.66	0.7	0.68	0.62	0.49
0.36	0.47	0.63	0.67	0.63	0.56	0.44
42.81	45.76	48.71	51.67	54.62	57.57	60.52 [m]

Part2

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

4.3 Calculation results, Komunikace propojovací var. 3

4.3.2 Table, Road (L)

[m]	0.44	0.56	0.63	0.67	0.63	0.47	0.36	0.41	0.54	0.56	0.47	0.6	0.68	0.56
6.42	0.49	0.62	0.68	0.7	0.66	0.5	0.36	0.37	0.5	0.68	0.67	[0.78]	0.71	0.56
5.25	0.55	0.67	0.63	0.61	0.6	0.45	0.35	0.34	0.41	0.58	0.56	0.72	0.7	0.59
4.08	0.68	0.71	0.62	0.54	0.5	0.39	0.33	0.31	0.36	0.49	0.46	0.64	0.69	0.66
2.92	0.72	0.77	0.62	0.49	0.42	0.33	0.3	0.29	0.33	0.42	0.39	0.57	0.67	0.74
1.75	0.52	0.65	0.62	0.48	0.37	0.3	0.27	(0.26)	0.3	0.36	0.38	0.52	0.6	0.67
0.58	1.48	4.43	7.38	10.33	13.29	16.24	19.19	22.14	25.10	28.05	31.00	33.95	36.90	39.86
	Luminance [cd/m2]													

Part1

Observer location 2	: x = 153, y = 5.25, z = 1.5
Average luminance	Lav : 0.5 cd/m ²
Minimum luminance	Lmin : 0.26 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.52
Threshold increment	TI : 3 %
Longitudinal uniformity UI	Llmin/Llmax : 0.4

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

4.3 Calculation results, Komunikace propojovací var. 3

4.3.2 Table, Road (L)

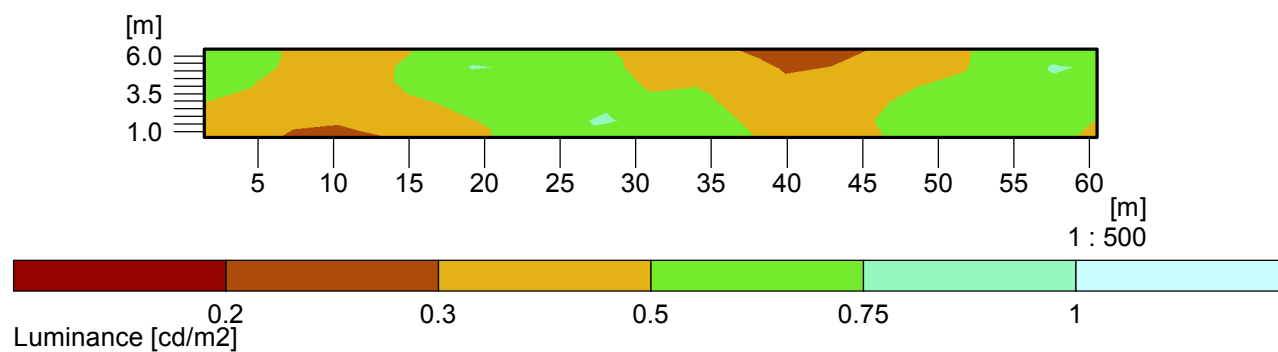
0.45 └	0.36 └	0.3 └	0.27 └	0.28 └	0.34 └	0.37 └
0.49 └	0.4 └	0.33 └	0.31 └	0.32 └	0.38 └	0.42 └
0.57 └	0.49 └	0.39 └	0.34 └	0.35 └	0.44 └	0.5 └
0.68 └	0.6 └	0.45 └	0.38 └	0.39 └	0.52 └	0.63 └
0.76 └	0.66 └	0.44 └	0.38 └	0.43 └	0.62 └	0.68 └
0.68 └	0.56 └	0.36 └	0.36 └	0.46 └	0.55 └	0.5 └
42.81	45.76	48.71	51.67	54.62	57.57	60.52 [m]

Part2

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

4.3 Calculation results, Komunikace propojovací var. 3

4.3.3 Pseudo colours, Road (L)

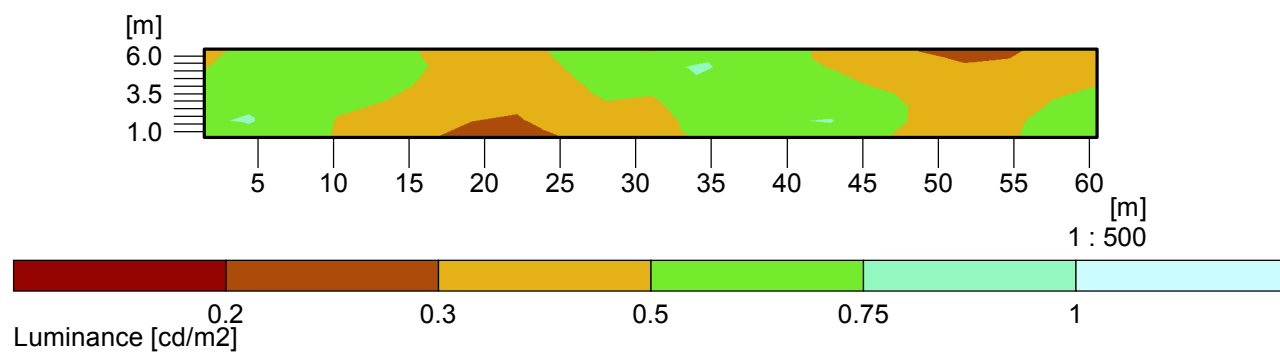


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.5 cd/m ²
Minimum luminance	Lmin : 0.26 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.52
Threshold increment	TI : 3 %
Longitudinal uniformity UI	Llmin/Llmax : 0.4

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

4.3 Calculation results, Komunikace propojovací var. 3

4.3.4 Pseudo colours, Road (L)



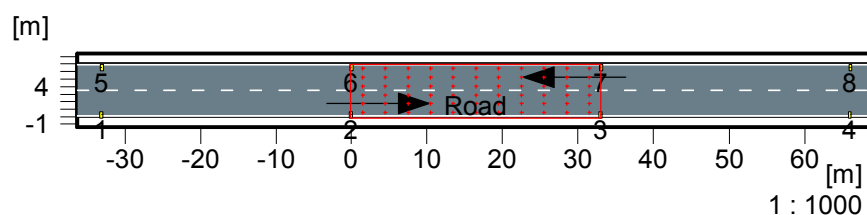
Observer location 2	: x = 153, y = 5.25, z = 1.5
Average luminance	Lav : 0.5 cd/m ²
Minimum luminance	Lmin : 0.26 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.52
Threshold increment	TI : 3 %
Longitudinal uniformity UI	Lmin/Lmax : 0.4

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

5 Komunikace propojovací var. 4

5.1 Description, Komunikace propojovací var. 4

5.1.1 Floor plan

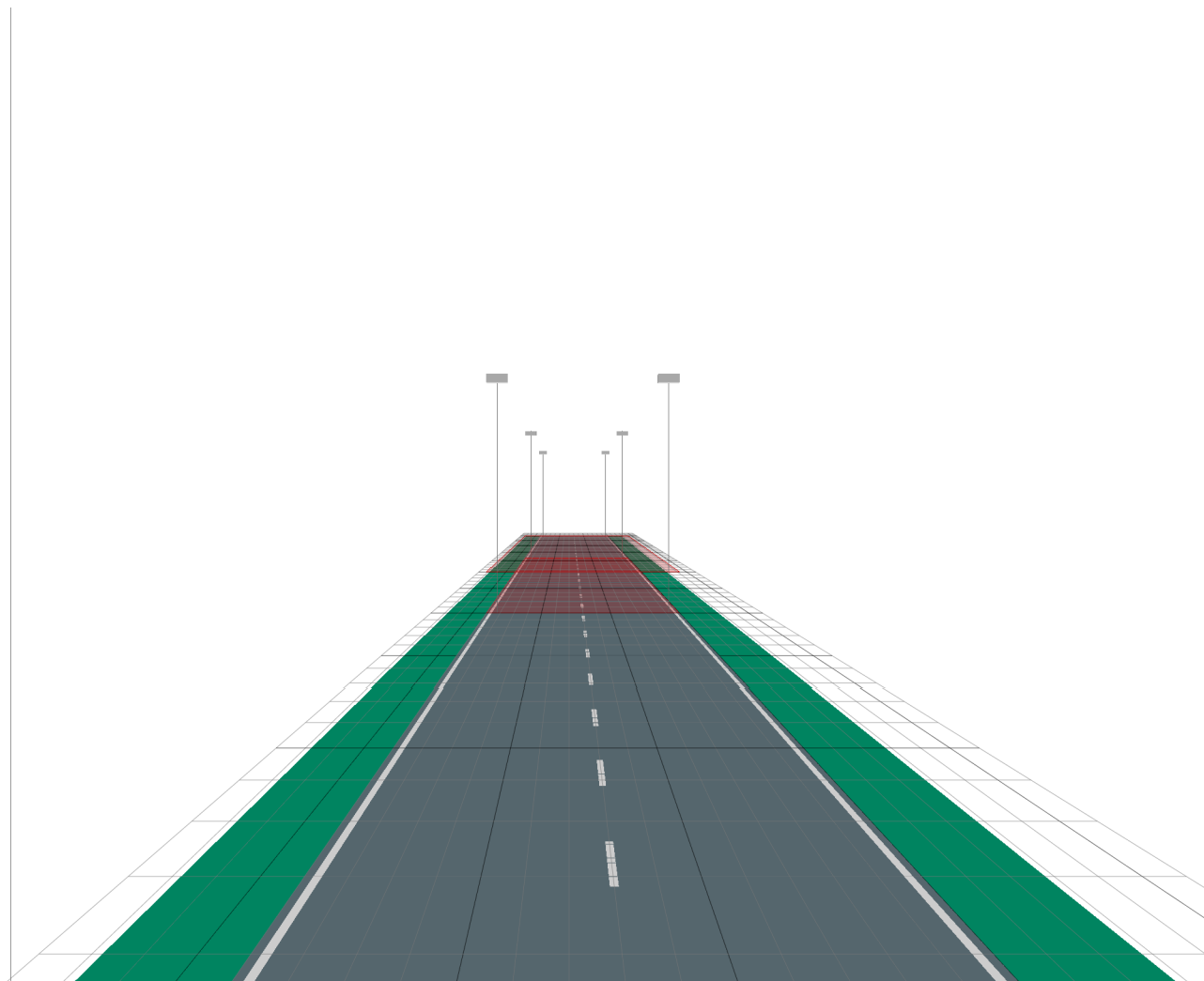


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	: 7.00 m	photometric centre height	:8.50 m
No. of lanes	: 2	Luminaire spacing	: 33.00 m
Road surface category	: R3	Luminaires - outreach	: 0.40 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

5.1 Description, Komunikace propojovací var. 4

5.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

5 Komunikace propojovací var. 4

5.2 Summary, Komunikace propojovací var. 4

5.2.1 Result overview, Road

Luminaire data

Manufacturer : Thorn
Order No. : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5] ()
Luminaire name : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]
Equipment : 1 x HIT-CE 150 W / 14000 lm

Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	(b): 7.00 m	photometric centre height. (h):	8.50 m
No. of lanes	: 2	Luminaire spacing	(a): 33.00 m
Road surface category	: R3	Luminaires - outreach	(u): 0.40 m
q0	: 0.07	Inclination	(δ): 0.00°
Right hand drivers		Reduction factor	: 0.60

Luminance

Observer location 1 : x=-60.00m, y=1.75m, z=1.50m
Average : 0.94 cd/m²
U0 (min/average) : 0.54

Observer location 2 : x=93.00m, y=5.25m, z=1.50m
Average : 0.94 cd/m²
U0 (min/average) : 0.54

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.41
UI (B2: x = 93.00, y = 5.25, z = 1.50) : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

5 Komunikace propojovací var. 4

5.2 Summary, Komunikace propojovací var. 4

5.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 3.48 %
SR	: 0.7

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

5 Komunikace propojovací var. 4

5.3 Calculation results, Komunikace propojovací var. 4

5.3.1 Table, Road (L)

[m]	0.85	0.85	0.68	0.55	(0.51)	0.65	0.93	1.11	1.22	1.2	0.94
6.42	└	└	└	└	└	└	└	└	└	└	└
5.25	1.08	0.96	0.67	0.57	0.6	0.76	1.07	1.2	1.29	1.38	1.2
	└	└	└	└	└	└	└	└	└	└	└
4.08	1.1	0.9	0.64	0.58	0.64	0.8	1.09	1.17	1.25	1.38	1.22
	└	└	└	└	└	└	└	└	└	└	└
2.92	1.09	0.9	0.64	0.57	0.62	0.78	1.09	1.16	1.25	1.38	1.22
	└	└	└	└	└	└	└	└	└	└	└
1.75	1.08	0.96	0.67	0.58	0.6	0.76	1.06	1.2	1.3	[1.39]	1.2
	└	└	└	└	└	└	└	└	└	└	└
0.58	0.86	0.87	0.7	0.57	0.55	0.68	0.98	1.15	1.26	1.21	0.95
	└	└	└	└	└	└	└	└	└	└	└
	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50 [m]
	Luminance [cd/m2]										

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.94 cd/m ²
Minimum luminance	Lmin : 0.51 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.54
Threshold increment	TI : 3.5 %
Longitudinal uniformity UI	Llmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

5.3 Calculation results, Komunikace propojovací var. 4

5.3.2 Table, Road (L)

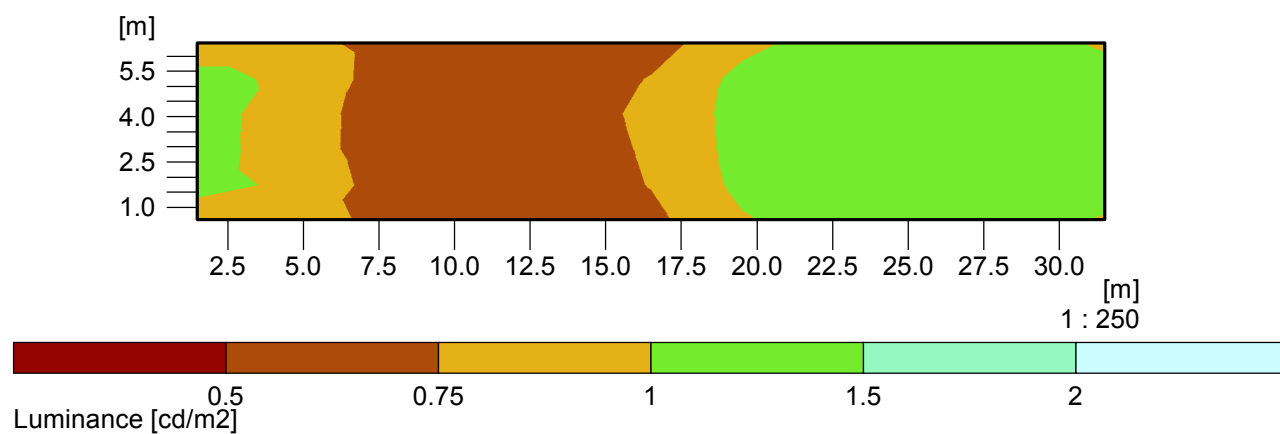
[m]	0.95	1.21	1.26	1.15	0.98	0.68	0.55	0.57	0.7	0.87	0.86
6.42	1.2	[1.39]	1.3	1.2	1.06	0.76	0.6	0.58	0.67	0.96	1.08
5.25	1.22	1.38	1.25	1.16	1.09	0.78	0.62	0.57	0.64	0.9	1.09
4.08	1.22	1.38	1.25	1.17	1.09	0.8	0.64	0.58	0.64	0.9	1.1
2.92	1.2	1.38	1.29	1.2	1.07	0.76	0.6	0.57	0.67	0.96	1.08
1.75	0.94	1.2	1.22	1.11	0.93	0.65	(0.51)	0.55	0.68	0.85	0.85
0.58	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50
	Luminance [cd/m ²]										
	[m]										

Observer location 2	: x = 93, y = 5.25, z = 1.5
Average luminance	Lav : 0.94 cd/m ²
Minimum luminance	Lmin : 0.51 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.54
Threshold increment	TI : 3.5 %
Longitudinal uniformity UI	Llmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

5.3 Calculation results, Komunikace propojovací var. 4

5.3.3 Pseudo colours, Road (L)

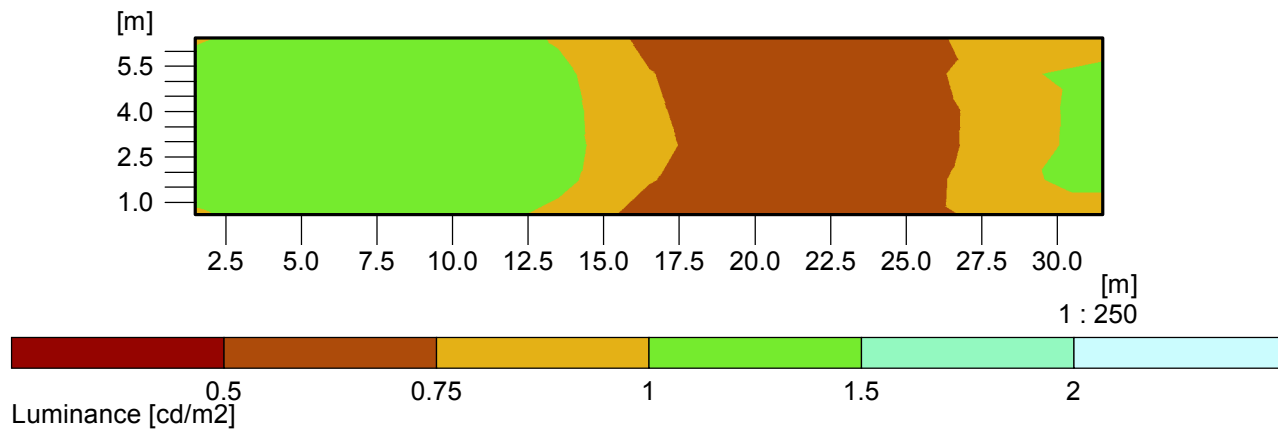


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.94 cd/m ²
Minimum luminance	Lmin : 0.51 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.54
Threshold increment	TI : 3.5 %
Longitudinal uniformity UI	Lmin/Lmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

5.3 Calculation results, Komunikace propojovací var. 4

5.3.4 Pseudo colours, Road (L)

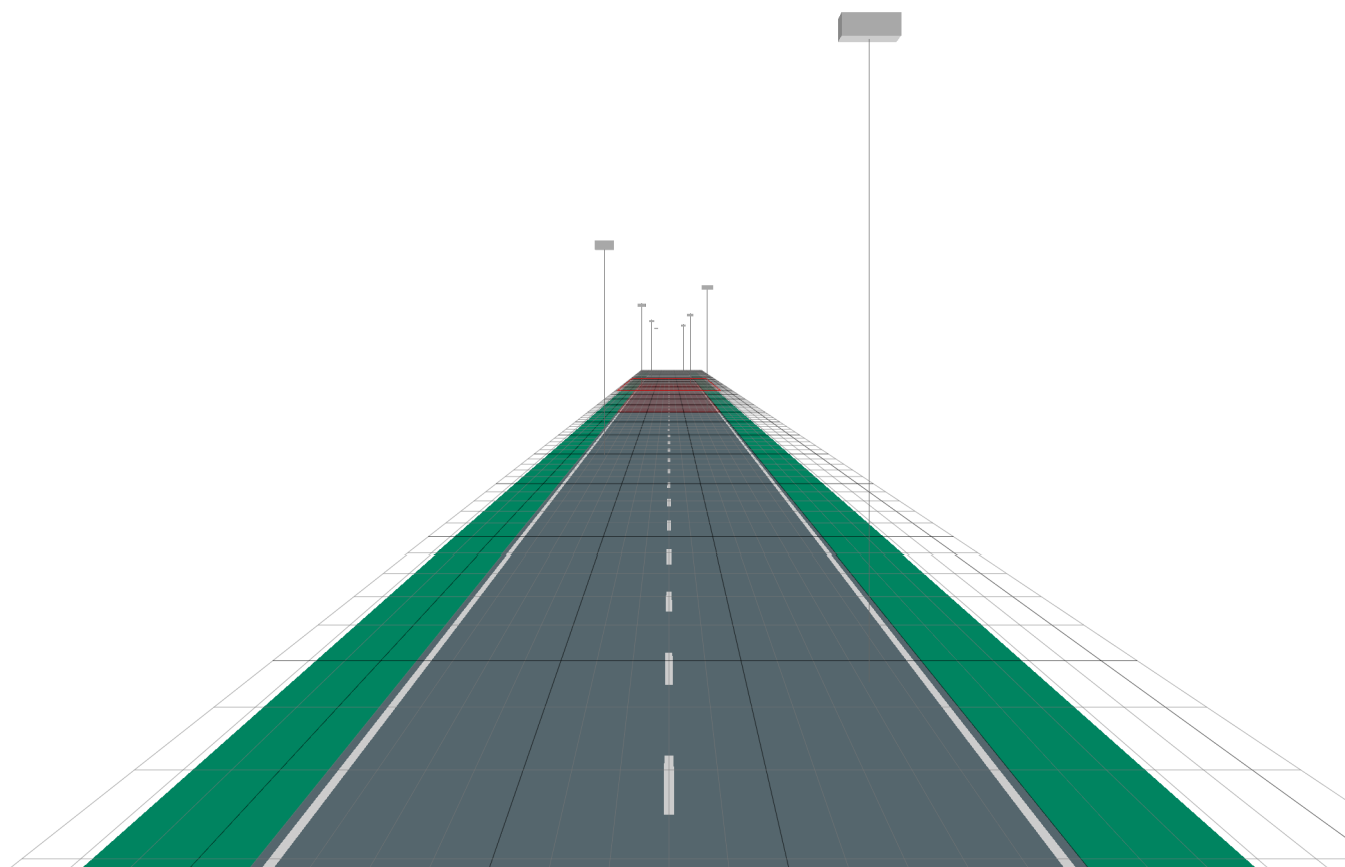


Observer location 2	: x = 93, y = 5.25, z = 1.5
Average luminance	Lav : 0.94 cd/m ²
Minimum luminance	Lmin : 0.51 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.54
Threshold increment	TI : 3.5 %
Longitudinal uniformity UI	Lmin/Lmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

6.1 Description, Komunikace propojovací var. 5

6.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

6 Komunikace propojovací var. 5

6.2 Summary, Komunikace propojovací var. 5

6.2.1 Result overview, Road

Luminaire data

Manufacturer : Thorn
Order No. : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5] ()
Luminaire name : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]
Equipment : 1 x HIT-CE 150 W / 14000 lm

Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway (b):	7.00 m	photometric centre height. (h):	8.50 m
No. of lanes	: 2	Luminaire spacing (a):	61.00 m
Road surface category	: R3	Luminaires - outreach (u):	0.90 m
q0	: 0.07	Inclination (δ):	0.00°
Right hand drivers		Reduction factor	: 0.60

Luminance

Observer location 1 : x=-60.00m, y=1.75m, z=1.50m
Average : 0.5 cd/m²
U0 (min/average) : 0.52

Observer location 2 : x=151.50m, y=5.25m, z=1.50m
Average : 0.5 cd/m²
U0 (min/average) : 0.52

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.41
UI (B2: x = 151.50, y = 5.25, z = 1.50) : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

6 Komunikace propojovací var. 5

6.2 Summary, Komunikace propojovací var. 5

6.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B2: y=5.25m)	: 2.83 %
SR	: 0.75

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

6 Komunikace propojovací var. 5

6.3 Calculation results, Komunikace propojovací var. 5

6.3.1 Table, Road (L)

[m]	0.58	0.6	0.43	0.33	0.34	0.5	0.62	0.61	0.56	0.49	0.38	0.35	0.29	(0.26)
6.42	0.68	0.59	0.41	0.36	0.43	0.65	0.74	0.72	0.65	0.55	0.39	0.39	0.33	0.29
5.25	0.58	0.49	0.38	0.37	0.47	0.64	0.72	0.69	0.68	0.62	0.43	0.47	0.36	0.32
4.08	0.47	0.43	0.36	0.36	0.42	0.54	0.61	0.61	0.7	0.68	0.5	0.55	0.4	0.34
2.92	0.39	0.37	0.32	0.31	0.35	0.43	0.51	0.57	0.7	[0.77]	0.64	0.66	0.47	0.37
1.75	0.36	0.33	0.28	0.28	0.3	0.37	0.45	0.56	0.7	0.7	0.56	0.63	0.54	0.38
0.58	1.45	4.36	7.26	10.17	13.07	15.98	18.88	21.79	24.69	27.60	30.50	33.40	36.31	39.21
	Luminance [cd/m ²]													

Part1

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.5 cd/m ²
Minimum luminance	Lmin : 0.26 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.52
Threshold increment	TI : 2.8 %
Longitudinal uniformity UI	Llmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

6 Komunikace propojovací var. 5

6.3 Calculation results, Komunikace propojovací var. 5

6.3.1 Table, Road (L)

0,28 └┐	0,31 └┐	0,39 └┐	0,48 └┐	0,62 └┐	0,74 └┐	0,61 └┐
0,31 └┐	0,35 └┐	0,44 └┐	0,5 └┐	0,62 └┐	0,76 └┐	0,73 └┐
0,34 └┐	0,42 └┐	0,55 └┐	0,56 └┐	0,63 └┐	0,69 └┐	0,63 └┐
0,36 └┐	0,49 └┐	0,64 └┐	0,65 └┐	0,64 └┐	0,65 └┐	0,52 └┐
0,36 └┐	0,51 └┐	0,67 └┐	0,71 └┐	0,67 └┐	0,6 └┐	0,46 └┐
0,33 └┐	0,44 └┐	0,6 └┐	0,63 └┐	0,59 └┐	0,52 └┐	0,42 └┐
42.12	45.02	47.93	50.83	53.74	56.64	59.55 [m]

Part2

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

6.3 Calculation results, Komunikace propojovací var. 5

6.3.2 Table, Road (L)

[m]	0.42	0.52	0.59	0.63	0.6	0.44	0.33	0.38	0.54	0.63	0.56	0.7	0.7	0.56
6.42	0.46	0.6	0.67	0.71	0.67	0.51	0.36	0.37	0.47	0.66	0.64	[0.77]	0.7	0.57
5.25	0.52	0.65	0.64	0.65	0.64	0.49	0.36	0.34	0.4	0.55	0.5	0.68	0.7	0.61
4.08	0.63	0.69	0.63	0.56	0.55	0.42	0.34	0.32	0.36	0.47	0.43	0.62	0.68	0.69
2.92	0.73	0.76	0.62	0.5	0.44	0.35	0.31	0.29	0.33	0.39	0.39	0.55	0.65	0.72
1.75	0.61	0.74	0.62	0.48	0.39	0.31	0.28	(0.26)	0.29	0.35	0.38	0.49	0.56	0.61
0.58	1.45	4.36	7.26	10.17	13.07	15.98	18.88	21.79	24.69	27.60	30.50	33.40	36.31	39.21
	Luminance [cd/m ²]													

Part1

Observer location 2	: x = 151, y = 5.25, z = 1.5
Average luminance	Lav : 0.5 cd/m ²
Minimum luminance	Lmin : 0.26 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.52
Threshold increment	TI : 2.8 %
Longitudinal uniformity UI	Llmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

6.3 Calculation results, Komunikace propojovací var. 5

6.3.2 Table, Road (L)

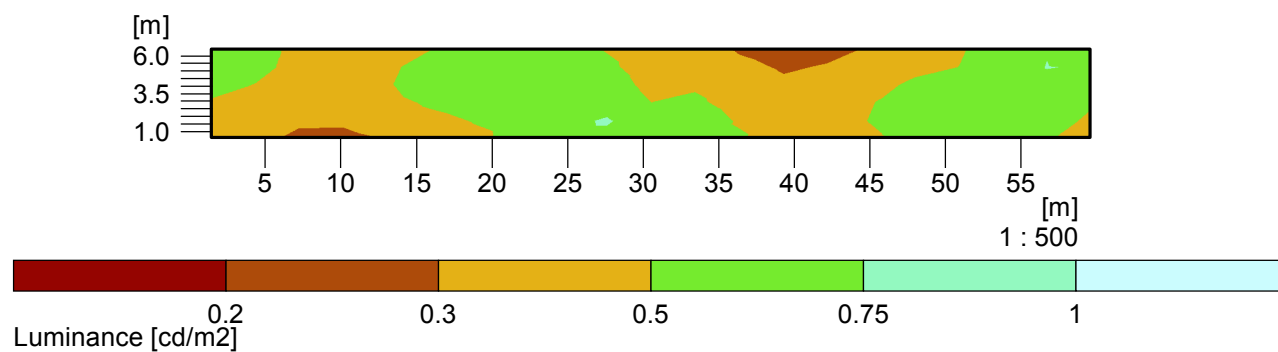
0.45	0.37	0.3	0.28	0.28	0.33	0.36
0.51	0.43	0.35	0.31	0.32	0.37	0.39
0.61	0.54	0.42	0.36	0.36	0.43	0.47
0.72	0.64	0.47	0.37	0.38	0.49	0.58
0.74	0.65	0.43	0.36	0.41	0.59	0.68
0.62	0.5	0.34	0.33	0.43	0.6	0.58
42.12	45.02	47.93	50.83	53.74	56.64	59.55 [m]

Part2

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

6.3 Calculation results, Komunikace propojovací var. 5

6.3.3 Pseudo colours, Road (L)

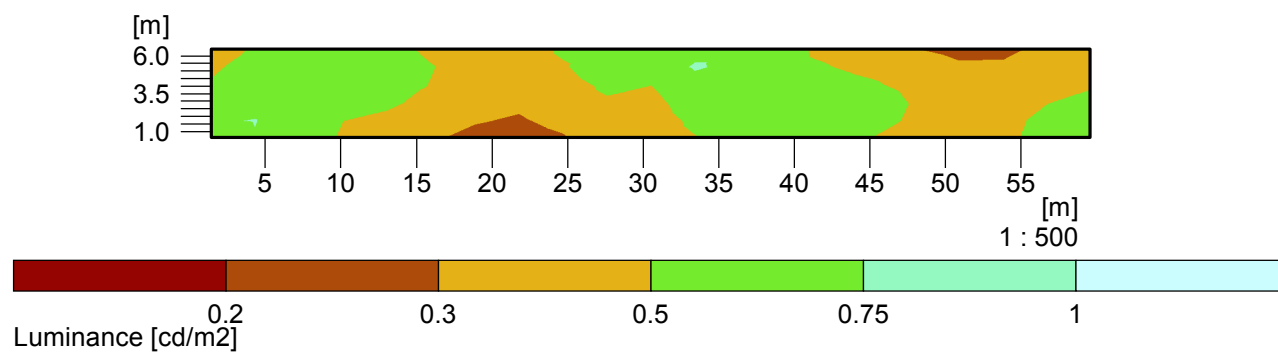


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.5 cd/m ²
Minimum luminance	Lmin : 0.26 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.52
Threshold increment	TI : 2.8 %
Longitudinal uniformity UI	Lmin/Lmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

6.3 Calculation results, Komunikace propojovací var. 5

6.3.4 Pseudo colours, Road (L)



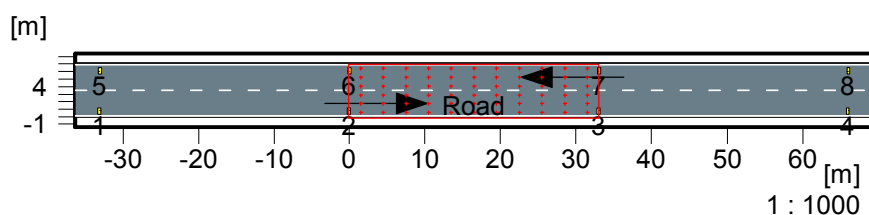
Observer location 2	: x = 151, y = 5.25, z = 1.5
Average luminance	Lav : 0.5 cd/m²
Minimum luminance	Lmin : 0.26 cd/m²
Overall uniformity U0	Lmin/Lm : 0.52
Threshold increment	TI : 2.8 %
Longitudinal uniformity UI	Lmin/Lmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

7 Komunikace propojovací var. 6

7.1 Description, Komunikace propojovací var. 6

7.1.1 Floor plan

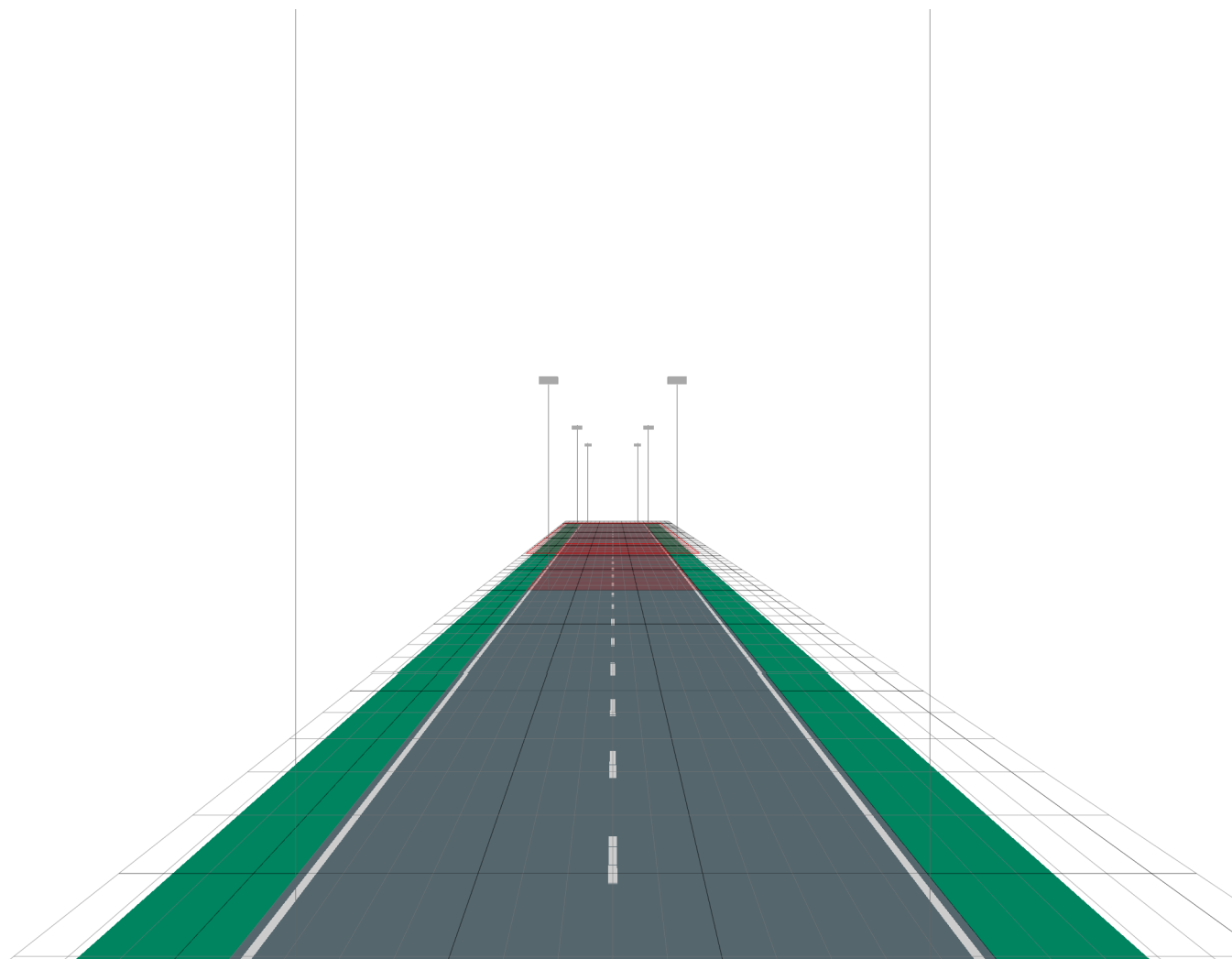


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	: 7.00 m	photometric centre height	:8.50 m
No. of lanes	: 2	Luminaire spacing	: 33.00 m
Road surface category	: R3	Luminaires - outreach	: 0.90 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

7.1 Description, Komunikace propojovací var. 6

7.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

7 Komunikace propojovací var. 6

7.2 Summary, Komunikace propojovací var. 6

7.2.1 Result overview, Road

Luminaire data

Manufacturer : Thorn
Order No. : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5] ()
Luminaire name : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]
Equipment : 1 x HIT-CE 150 W / 14000 lm

Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway (b):	7.00 m	photometric centre height. (h):	8.50 m
No. of lanes	: 2	Luminaire spacing (a):	33.00 m
Road surface category	: R3	Luminaires - outreach (u):	0.90 m
q0	: 0.07	Inclination (δ):	0.00°
Right hand drivers		Reduction factor	: 0.60

Luminance

Observer location 1 : x=-60.00m, y=1.75m, z=1.50m
Average : 0.93 cd/m²
U0 (min/average) : 0.51

Observer location 2 : x=93.00m, y=5.25m, z=1.50m
Average : 0.93 cd/m²
U0 (min/average) : 0.51

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.41
UI (B2: x = 93.00, y = 5.25, z = 1.50) : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

7 Komunikace propojovací var. 6

7.2 Summary, Komunikace propojovací var. 6

7.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B2: y=5.25m)	: 3.29 %
SR	: 0.74

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

7 Komunikace propojovací var. 6

7.3 Calculation results, Komunikace propojovací var. 6

7.3.1 Table, Road (L)

[m]	0.92	0.89	0.63	0.5	(0.47)	0.58	0.86	1.05	1.16	1.25	1.02
6.42	0.92	0.89	0.63	0.5	(0.47)	0.58	0.86	1.05	1.16	1.25	1.02
5.25	1.04	0.89	0.62	0.54	0.56	0.72	1.05	1.19	1.26	1.34	1.17
4.08	1.02	0.85	0.62	0.56	0.62	0.83	1.14	1.23	1.27	1.33	1.14
2.92	1.01	0.85	0.62	0.56	0.62	0.81	1.14	1.21	1.26	1.34	1.14
1.75	1.05	0.91	0.63	0.56	0.58	0.75	1.08	1.22	1.28	[1.35]	1.18
0.58	0.93	0.91	0.65	0.54	0.52	0.64	0.93	1.11	1.21	1.27	1.03
	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50 [m]
	Luminance [cd/m2]										

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.93 cd/m ²
Minimum luminance	Lmin : 0.47 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.51
Threshold increment	TI : 3.3 %
Longitudinal uniformity UI	Llmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

7.3 Calculation results, Komunikace propojovací var. 6

7.3.2 Table, Road (L)

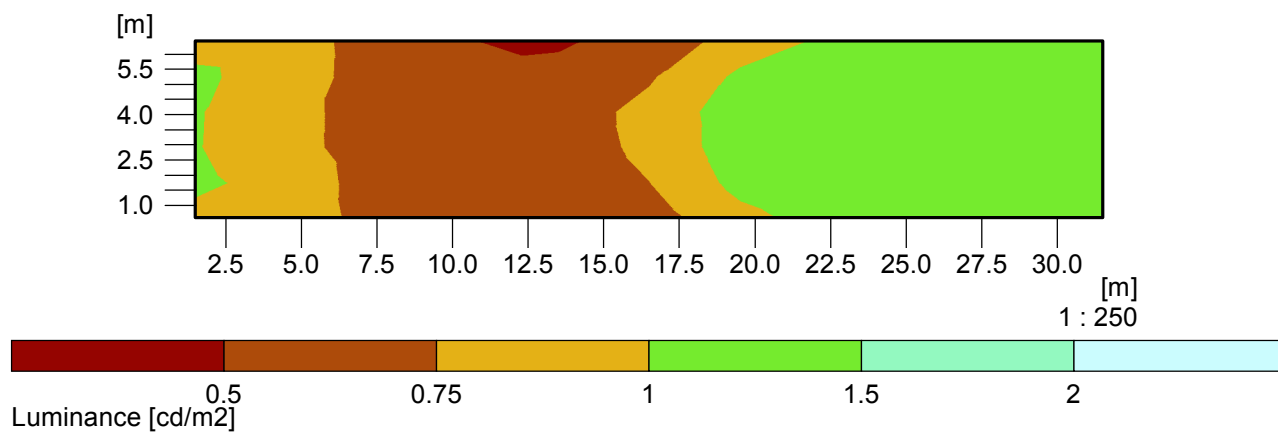
[m]	1.03	1.27	1.21	1.11	0.93	0.64	0.52	0.54	0.65	0.91	0.93
6.42	1.18	[1.35]	1.28	1.22	1.08	0.75	0.58	0.56	0.63	0.91	1.05
5.25	1.14	1.34	1.26	1.21	1.14	0.81	0.62	0.56	0.62	0.85	1.01
4.08	1.14	1.33	1.27	1.23	1.14	0.83	0.62	0.56	0.62	0.85	1.02
2.92	1.17	1.34	1.26	1.19	1.05	0.72	0.56	0.54	0.62	0.89	1.04
1.75	1.02	1.25	1.16	1.05	0.86	0.58	(0.47)	0.5	0.63	0.89	0.92
0.58	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50
	Luminance [cd/m ²]										
	[m]										

Observer location 2	: x = 93, y = 5.25, z = 1.5
Average luminance	Lav : 0.93 cd/m ²
Minimum luminance	Lmin : 0.47 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.51
Threshold increment	TI : 3.3 %
Longitudinal uniformity UI	Llmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

7.3 Calculation results, Komunikace propojovací var. 6

7.3.3 Pseudo colours, Road (L)

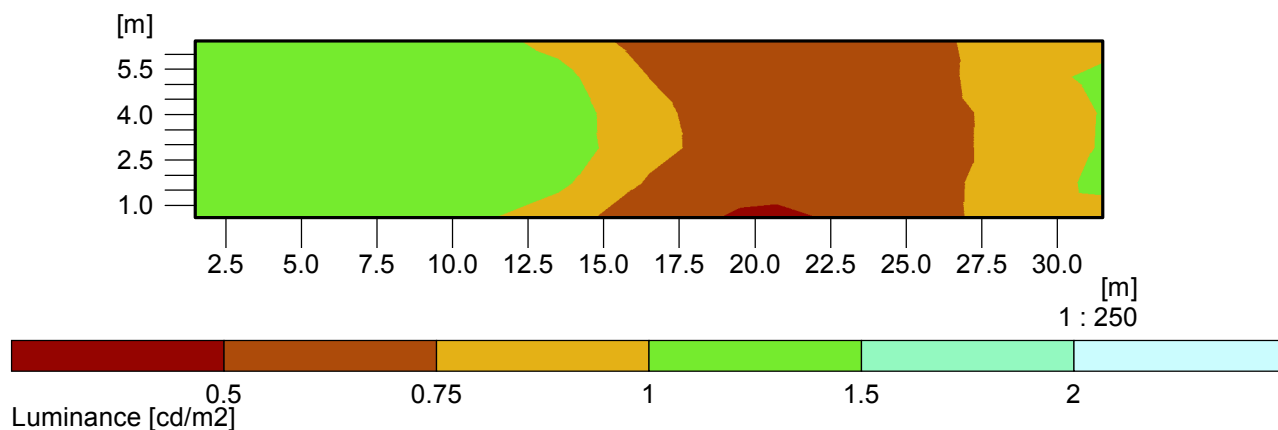


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.93 cd/m²
Minimum luminance	Lmin : 0.47 cd/m²
Overall uniformity U0	Lmin/Lm : 0.51
Threshold increment	TI : 3.3 %
Longitudinal uniformity UI	Lmin/Lmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

7.3 Calculation results, Komunikace propojovací var. 6

7.3.4 Pseudo colours, Road (L)



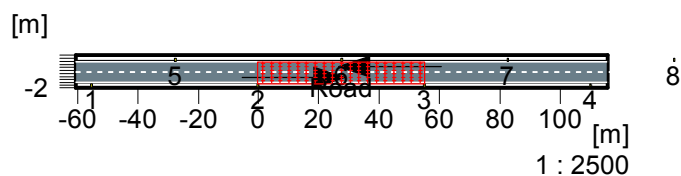
Observer location 2	: x = 93, y = 5.25, z = 1.5
Average luminance	Lav : 0.93 cd/m ²
Minimum luminance	Lmin : 0.47 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.51
Threshold increment	TI : 3.3 %
Longitudinal uniformity UI	Lmin/Lmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

8 Komunikace propojovací var. 7

8.1 Description, Komunikace propojovací var. 7

8.1.1 Floor plan

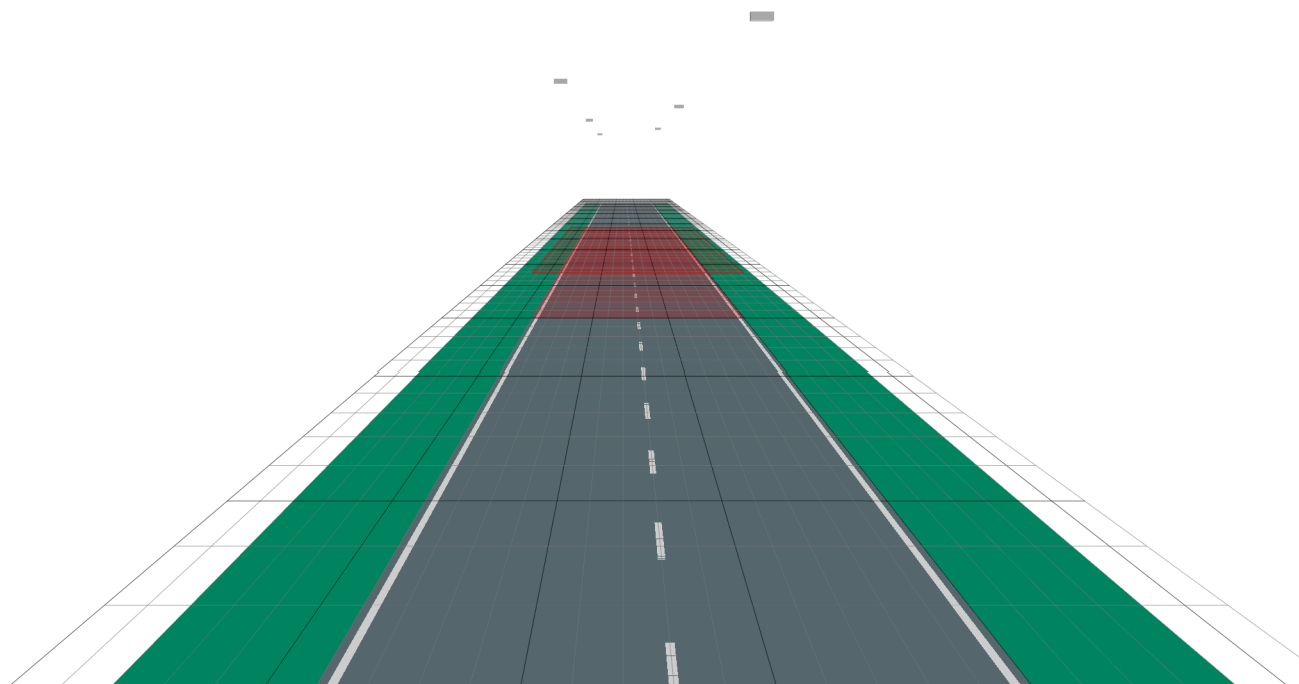


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway	: 7.00 m	photometric centre height	:10.00 m
No. of lanes	: 2	Luminaire spacing	: 55.00 m
Road surface category	: R3	Luminaires - outreach	: -0.60 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

8.1 Description, Komunikace propojovací var. 7

8.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

8 Komunikace propojovací var. 7

8.2 Summary, Komunikace propojovací var. 7

8.2.1 Result overview, Road

Luminaire data

Manufacturer : Thorn
Order No. : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5] ()
Luminaire name : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]
Equipment : 1 x HIT-CE 150 W / 14000 lm

Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway	(b): 7.00 m	photometric centre height. (h):	10.00 m
No. of lanes	: 2	Luminaire spacing	(a): 55.00 m
Road surface category	: R3	Luminaires - outreach	(u): -0.60 m
q0	: 0.07	Inclination	(δ): 0.00°
Right hand drivers		Reduction factor	: 0.60

Luminance

Observer location 1 : x=-60.00m, y=1.75m, z=1.50m
Average : 0.5 cd/m²
U0 (min/average) : 0.68

Observer location 2 : x=142.50m, y=5.25m, z=1.50m
Average : 0.5 cd/m²
U0 (min/average) : 0.68

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.65
UI (B2: x = 142.50, y = 5.25, z = 1.50) : 0.65

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

8 Komunikace propojovací var. 7

8.2 Summary, Komunikace propojovací var. 7

8.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B2: y=5.25m)	: 2.21 %
SR	: 0.73

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

8 Komunikace propojovací var. 7

8.3 Calculation results, Komunikace propojovací var. 7

8.3.1 Table, Road (L)

[m]	0.44	0.52	0.57	0.64	[0.67]	0.62	0.57	0.51	0.43	(0.34)	0.37	0.35	0.35	0.37
6.42	0.57	0.6	0.57	0.62	0.65	0.61	0.56	0.53	0.47	0.37	0.41	0.38	0.37	0.41
5.25	0.56	0.56	0.51	0.54	0.57	0.54	0.53	0.55	0.52	0.4	0.47	0.42	0.4	0.45
4.08	0.47	0.47	0.43	0.46	0.5	0.49	0.52	0.58	0.58	0.49	0.55	0.48	0.47	0.52
2.92	0.41	0.42	0.38	0.41	0.44	0.46	0.52	0.59	0.57	0.52	0.56	0.55	0.54	0.59
1.75	0.36	0.38	0.35	0.38	0.41	0.45	0.51	0.54	0.46	0.4	0.47	0.53	0.59	0.63
0.58	1.45	4.34	7.24	10.13	13.03	15.92	18.82	21.71	24.61	27.50	30.39	33.29	36.18	39.08
	Luminance [cd/m2]													

Part1

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.5 cd/m ²
Minimum luminance	Lmin : 0.34 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.68
Threshold increment	TI : 2.2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.65

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

8 Komunikace propojovací var. 7

8.3 Calculation results, Komunikace propojovací var. 7

8.3.1 Table, Road (L)

0.42	0.46	0.52	0.51	0.43
0.43	0.46	0.53	0.6	0.55
0.47	0.47	0.54	0.58	0.56
0.52	0.51	0.54	0.53	0.48
0.59	0.55	0.54	0.5	0.42
0.63	0.6	0.53	0.47	0.38
41.97	44.87	47.76	50.66	53.55 [m]

Part2

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

8.3 Calculation results, Komunikace propojovací var. 7

8.3.2 Table, Road (L)

[m]	0.38	0.47	0.53	0.6	0.63	0.63	0.59	0.53	0.47	0.4	0.46	0.54	0.51	0.45
6.42	0.42	0.5	0.54	0.55	0.59	0.59	0.54	0.55	0.56	0.52	0.57	0.59	0.52	0.46
5.25	0.48	0.53	0.54	0.51	0.52	0.52	0.47	0.48	0.55	0.49	0.58	0.58	0.52	0.49
4.08	0.56	0.58	0.54	0.47	0.47	0.45	0.4	0.42	0.47	0.4	0.52	0.55	0.53	0.54
2.92	0.55	0.6	0.53	0.46	0.43	0.41	0.37	0.38	0.41	0.37	0.47	0.53	0.56	0.61
1.75	0.43	0.51	0.52	0.46	0.42	0.37	0.35	0.35	0.37	(0.34)	0.43	0.51	0.57	0.62
0.58	1.45	4.34	7.24	10.13	13.03	15.92	18.82	21.71	24.61	27.50	30.39	33.29	36.18	39.08
	Luminance [cd/m ²]													

Part1

Observer location 2	: x = 142, y = 5.25, z = 1.5
Average luminance	Lav : 0.5 cd/m ²
Minimum luminance	Lmin : 0.34 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.68
Threshold increment	TI : 2.2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.65

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

8.3 Calculation results, Komunikace propojovací var. 7

8.3.2 Table, Road (L)

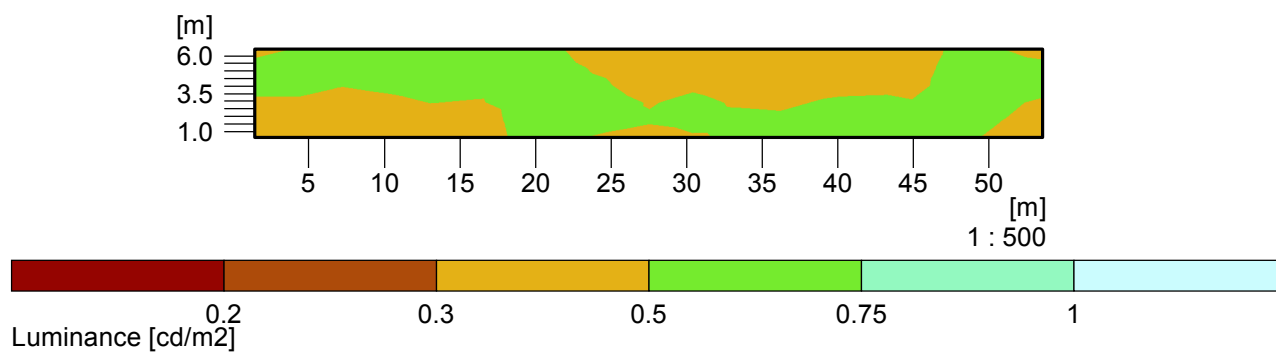
0.41	0.38	0.35	0.38	0.36
0.44	0.41	0.38	0.42	0.41
0.5	0.46	0.43	0.47	0.47
0.57	0.54	0.51	0.56	0.56
0.65	0.62	0.57	0.6	0.57
[0.67]	0.64	0.57	0.52	0.44
41.97	44.87	47.76	50.66	53.55 [m]

Part2

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

8.3 Calculation results, Komunikace propojovací var. 7

8.3.3 Pseudo colours, Road (L)

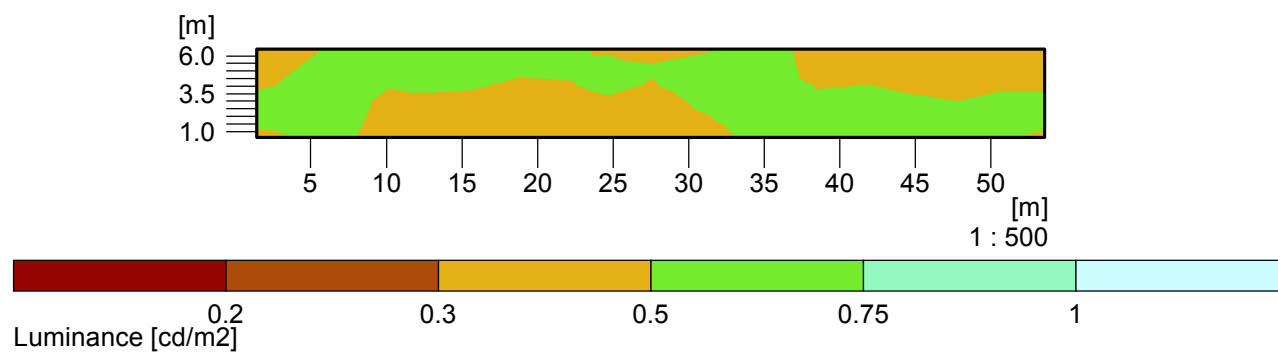


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.5 cd/m ²
Minimum luminance	Lmin : 0.34 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.68
Threshold increment	TI : 2.2 %
Longitudinal uniformity UI	Lmin/Lmax : 0.65

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

8.3 Calculation results, Komunikace propojovací var. 7

8.3.4 Pseudo colours, Road (L)



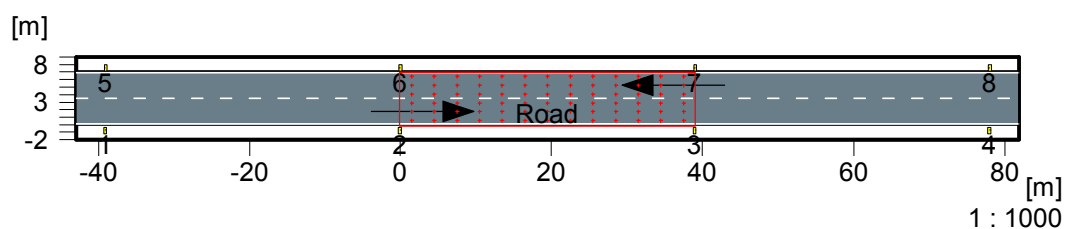
Observer location 2	: x = 142, y = 5.25, z = 1.5
Average luminance	Lav : 0.5 cd/m²
Minimum luminance	Lmin : 0.34 cd/m²
Overall uniformity U0	Lmin/Lm : 0.68
Threshold increment	TI : 2.2 %
Longitudinal uniformity UI	Lmin/Lmax : 0.65

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

9 Komunikace propojovací var. 8

9.1 Description, Komunikace propojovací var. 8

9.1.1 Floor plan

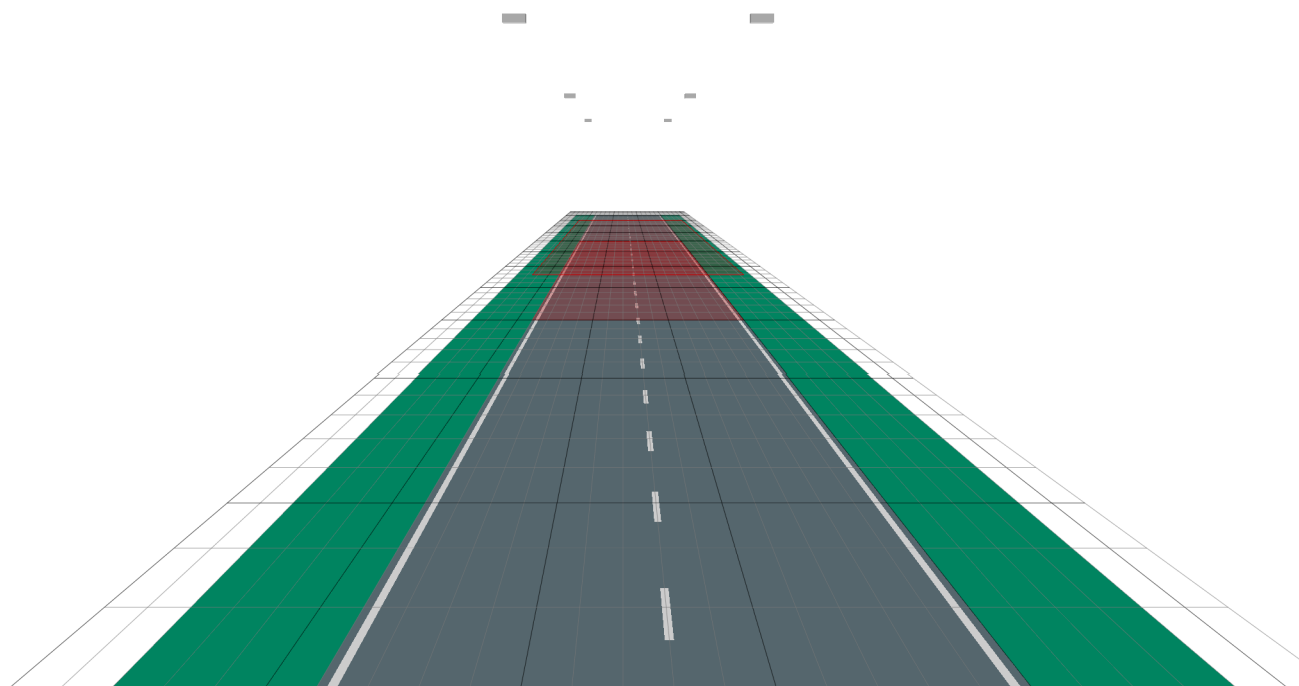


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	: 7.00 m	photometric centre height	:10.00 m
No. of lanes	: 2	Luminaire spacing	: 39.00 m
Road surface category	: R3	Luminaires - outreach	: -0.60 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

9.1 Description, Komunikace propojovací var. 8

9.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

9 Komunikace propojovací var. 8

9.2 Summary, Komunikace propojovací var. 8

9.2.1 Result overview, Road

Luminaire data

Manufacturer : Thorn
Order No. : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5] ()
Luminaire name : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]
Equipment : 1 x HIT-CE 150 W / 14000 lm

Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	(b): 7.00 m	photometric centre height. (h):	10.00 m
No. of lanes	: 2	Luminaire spacing	(a): 39.00 m
Road surface category	: R3	Luminaires - outreach	(u): -0.60 m
q0	: 0.07	Inclination	(δ): 0.00°
Right hand drivers		Reduction factor	: 0.60

Luminance

Observer location 1 : x=-60.00m, y=1.75m, z=1.50m
Average : 0.7 cd/m²
U0 (min/average) : 0.6

Observer location 2 : x=99.00m, y=5.25m, z=1.50m
Average : 0.7 cd/m²
U0 (min/average) : 0.6

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.41
UI (B2: x = 99.00, y = 5.25, z = 1.50) : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

9 Komunikace propojovací var. 8

9.2 Summary, Komunikace propojovací var. 8

9.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 3.18 %
SR	: 0.74

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

9 Komunikace propojovací var. 8

9.3 Calculation results, Komunikace propojovací var. 8

9.3.1 Table, Road (L)

[m]	0.65	0.68	0.57	0.45	(0.42)	(0.42)	0.53	0.72	0.84	0.9	0.94	0.89	0.7
6.42	0.8	0.76	0.56	0.45	0.43	0.46	0.56	0.74	0.84	0.89	0.96	1.01	0.87
5.25	0.84	0.75	0.53	0.44	0.43	0.46	0.55	0.72	0.81	0.84	0.96	[1.02]	0.92
4.08	0.84	0.75	0.53	0.44	(0.42)	0.45	0.54	0.72	0.81	0.84	0.97	[1.02]	0.92
2.92	0.8	0.76	0.55	0.44	(0.42)	0.44	0.54	0.72	0.84	0.87	0.97	1.01	0.87
1.75	0.65	0.68	0.58	0.46	0.43	0.43	0.53	0.72	0.85	0.91	0.95	0.9	0.7
0.58	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50	34.50	37.50
	Luminance [cd/m2]												
	[m]												

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.7 cd/m ²
Minimum luminance	Lmin : 0.42 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.6
Threshold increment	TI : 3.2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

9.3 Calculation results, Komunikace propojovací var. 8

9.3.2 Table, Road (L)

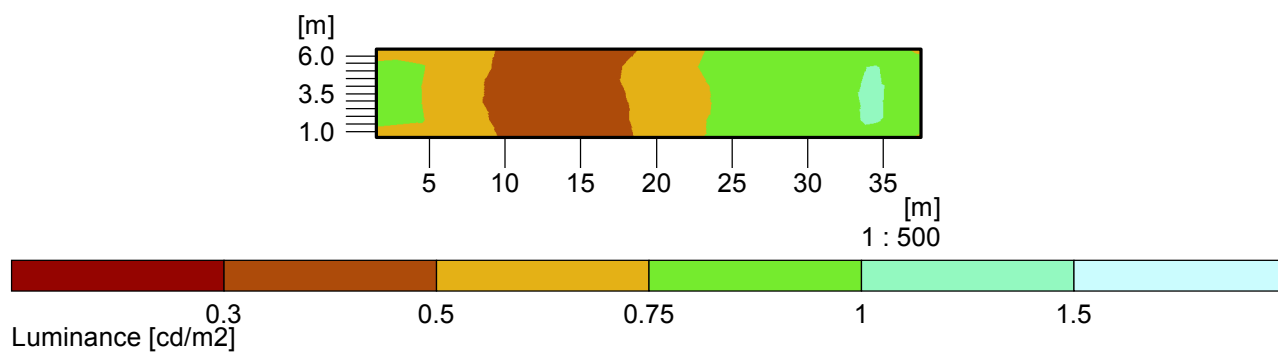
[m]	0.7	0.9	0.95	0.91	0.85	0.72	0.53	0.43	0.43	0.46	0.58	0.68	0.65
6.42	0.87	1.01	0.97	0.87	0.84	0.72	0.54	0.44	(0.42)	0.44	0.55	0.76	0.8
5.25	0.92	[1.02]	0.97	0.84	0.81	0.72	0.54	0.45	(0.42)	0.44	0.53	0.75	0.84
4.08	0.92	[1.02]	0.96	0.84	0.81	0.72	0.55	0.46	0.43	0.44	0.53	0.75	0.84
2.92	0.87	1.01	0.96	0.89	0.84	0.74	0.56	0.46	0.43	0.45	0.56	0.76	0.8
1.75	0.87	1.01	0.96	0.89	0.84	0.74	0.56	0.46	0.43	0.45	0.56	0.76	0.8
0.58	0.7	0.89	0.94	0.9	0.84	0.72	0.53	(0.42)	(0.42)	0.45	0.57	0.68	0.65
	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50	34.50	37.50
	Luminance [cd/m2]												
	[m]												

Observer location 2	: x = 99, y = 5.25, z = 1.5
Average luminance	Lav : 0.7 cd/m ²
Minimum luminance	Lmin : 0.42 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.6
Threshold increment	TI : 3.2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

9.3 Calculation results, Komunikace propojovací var. 8

9.3.3 Pseudo colours, Road (L)

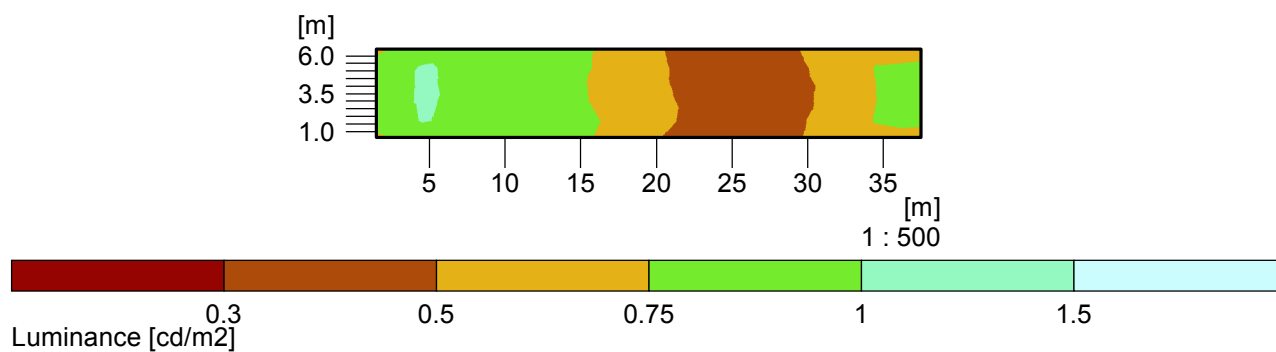


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.7 cd/m ²
Minimum luminance	Lmin : 0.42 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.6
Threshold increment	TI : 3.2 %
Longitudinal uniformity UI	Lmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

9.3 Calculation results, Komunikace propojovací var. 8

9.3.4 Pseudo colours, Road (L)



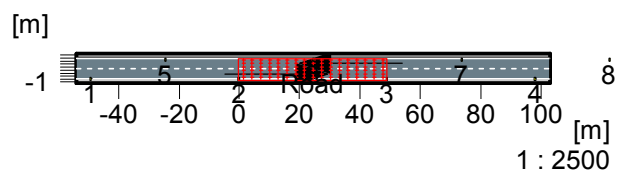
Observer location 2	: x = 99, y = 5.25, z = 1.5
Average luminance	Lav : 0.7 cd/m ²
Minimum luminance	Lmin : 0.42 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.6
Threshold increment	TI : 3.2 %
Longitudinal uniformity UI	Lmin/Lmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

10 Komunikace propojovací var. 9

10.1 Description, Komunikace propojovací var. 9

10.1.1 Floor plan

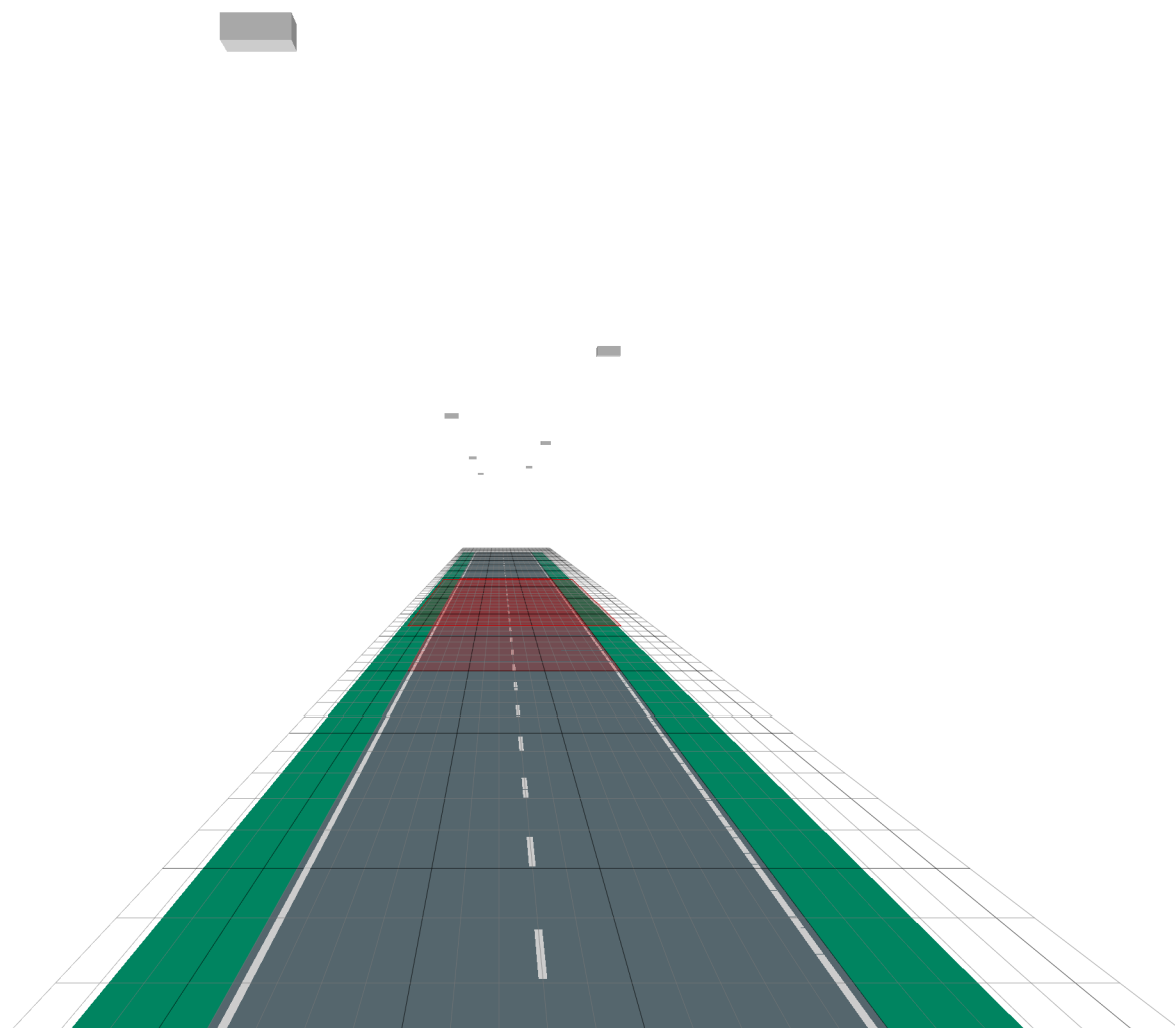


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway	: 7.00 m	photometric centre height	:10.50 m
No. of lanes	: 2	Luminaire spacing	: 49.00 m
Road surface category	: R3	Luminaires - outreach	: 0.40 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

10.1 Description, Komunikace propojovací var. 9

10.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

10 Komunikace propojovací var. 9

10.2 Summary, Komunikace propojovací var. 9

10.2.1 Result overview, Road

Luminaire data

Manufacturer : Thorn
Order No. : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5] ()
Luminaire name : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]
Equipment : 1 x HIT-CE 150 W / 14000 lm

Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway (b):	7.00 m	photometric centre height. (h):	10.50 m
No. of lanes	: 2	Luminaire spacing (a):	49.00 m
Road surface category	: R3	Luminaires - outreach (u):	0.40 m
q0	: 0.07	Inclination (δ):	0.00°
Right hand drivers		Reduction factor	: 0.60

Luminance

Observer location 1 : x=-60.00m, y=1.75m, z=1.50m
Average : 0.51 cd/m²
U0 (min/average) : 0.7

Observer location 2 : x=133.50m, y=5.25m, z=1.50m
Average : 0.51 cd/m²
U0 (min/average) : 0.7

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.64
UI (B2: x = 133.50, y = 5.25, z = 1.50) : 0.64

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

10 Komunikace propojovací var. 9

10.2 Summary, Komunikace propojovací var. 9

10.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B2: y=5.25m)	: 1.64 %
SR	: 0.86

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

10 Komunikace propojovací var. 9

10.3 Calculation results, Komunikace propojovací var. 9

10.3.1 Table, Road (L)

[m]	0.53	0.6	0.62	0.6	0.56	0.51	0.46	0.41	(0.36)	0.37	0.39	0.4	0.41	0.46
6.42	0.55	0.63	[0.65]	0.64	0.6	0.55	0.5	0.43	0.37	0.41	0.43	0.46	0.46	0.48
5.25	0.51	0.6	0.61	0.61	0.58	0.55	0.52	0.47	0.4	0.47	0.5	0.52	0.5	0.51
4.08	0.47	0.53	0.55	0.55	0.52	0.53	0.54	0.51	0.43	0.52	0.56	0.58	0.55	0.53
2.92	0.41	0.45	0.48	0.49	0.48	0.53	0.57	0.57	0.5	0.59	0.63	0.63	0.6	0.58
1.75	0.37	0.4	0.42	0.44	0.45	0.51	0.57	0.55	0.52	0.57	[0.65]	0.63	0.58	0.55
0.58	1.44	4.32	7.21	10.09	12.97	15.85	18.74	21.62	24.50	27.38	30.26	33.15	36.03	38.91
	Luminance [cd/m2]													

Part1

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.51 cd/m ²
Minimum luminance	Lmin : 0.36 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.7
Threshold increment	TI : 1.6 %
Longitudinal uniformity UI	Llmin/Llmax : 0.64

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

10 Komunikace propojovací var. 9

10.3 Calculation results, Komunikace propojovací var. 9

10.3.1 Table, Road (L)

0.51 └	0.56 └	0.53 └
0.53 └	0.56 └	0.55 └
0.54 └	0.52 └	0.49 └
0.54 └	0.51 └	0.45 └
0.53 └	0.47 └	0.41 └
0.5 └	0.45 └	0.39 └
41.79	44.68	47.56 [m]

Part2

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

10.3 Calculation results, Komunikace propojovací var. 9

10.3.2 Table, Road (L)

[m]	0.39	0.45	0.5	0.55	0.58	0.63	[0.65]	0.57	0.52	0.55	0.57	0.51	0.45	0.44
6.42	0.41	0.47	0.53	0.58	0.6	0.63	0.63	0.59	0.5	0.57	0.57	0.53	0.48	0.49
5.25	0.45	0.51	0.54	0.53	0.55	0.58	0.56	0.52	0.43	0.51	0.54	0.53	0.52	0.55
4.08	0.49	0.52	0.54	0.51	0.5	0.52	0.5	0.47	0.4	0.47	0.52	0.55	0.58	0.61
2.92	0.55	0.56	0.53	0.48	0.46	0.46	0.43	0.41	0.37	0.43	0.5	0.55	0.6	0.64
1.75	0.53	0.56	0.51	0.46	0.41	0.4	0.39	0.37	(0.36)	0.41	0.46	0.51	0.56	0.6
0.58	1.44	4.32	7.21	10.09	12.97	15.85	18.74	21.62	24.50	27.38	30.26	33.15	36.03	38.91
	Luminance [cd/m2]													

Part1

Observer location 2	: x = 134, y = 5.25, z = 1.5
Average luminance	Lav : 0.51 cd/m ²
Minimum luminance	Lmin : 0.36 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.7
Threshold increment	TI : 1.6 %
Longitudinal uniformity UI	Llmin/Llmax : 0.64

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

10.3 Calculation results, Komunikace propojovací var. 9

10.3.2 Table, Road (L)

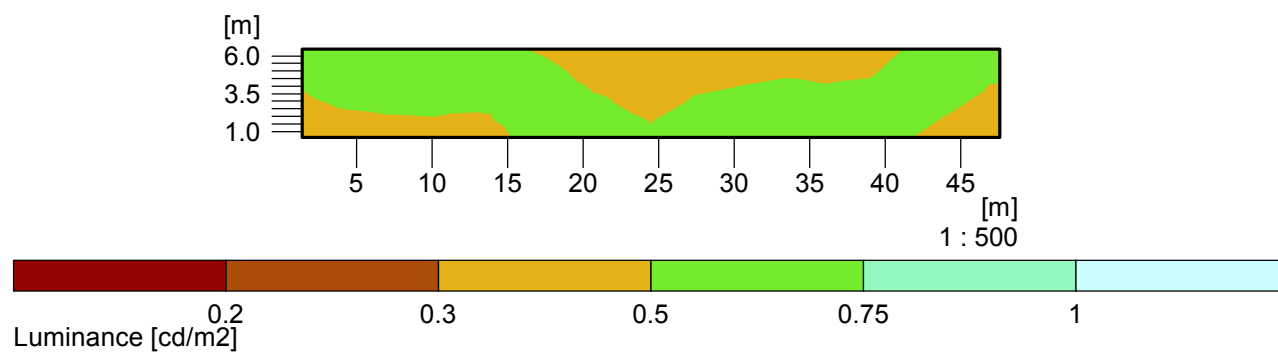
0.42	0.4	0.37
0.48	0.45	0.41
0.55	0.53	0.47
0.61	0.6	0.51
[0.65]	0.63	0.55
0.62	0.6	0.53
41.79	44.68	47.56 [m]

Part2

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

10.3 Calculation results, Komunikace propojovací var. 9

10.3.3 Pseudo colours, Road (L)

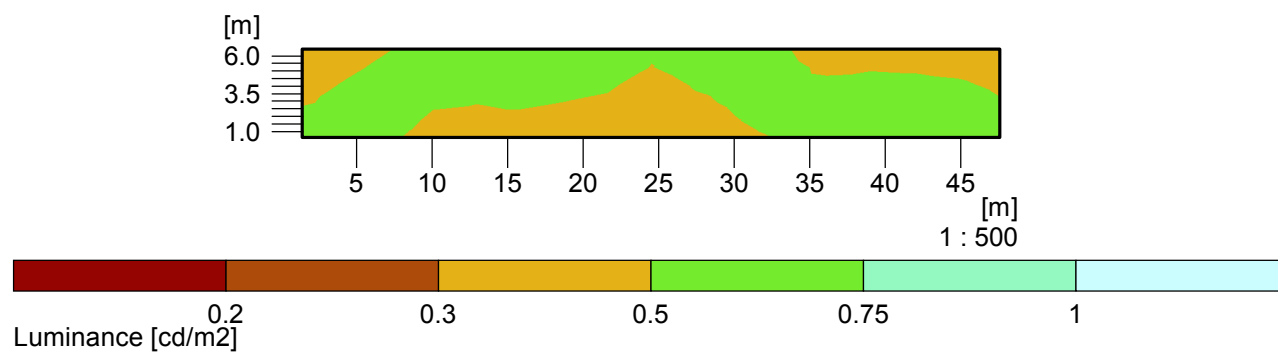


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.51 cd/m^2
Minimum luminance	Lmin : 0.36 cd/m^2
Overall uniformity U0	Lmin/Lm : 0.7
Threshold increment	TI : 1.6 %
Longitudinal uniformity UI	Lmin/Lmax : 0.64

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

10.3 Calculation results, Komunikace propojovací var. 9

10.3.4 Pseudo colours, Road (L)



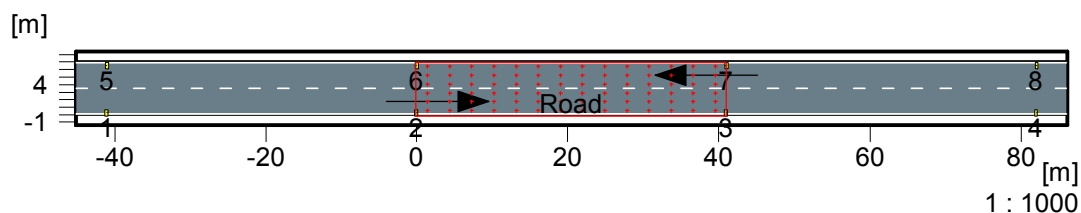
Observer location 2	: x = 134, y = 5.25, z = 1.5
Average luminance	Lav : 0.51 cd/m ²
Minimum luminance	Lmin : 0.36 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.7
Threshold increment	TI : 1.6 %
Longitudinal uniformity UI	Lmin/Lmax : 0.64

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

11 Komunikace propojovací var. 10

11.1 Description, Komunikace propojovací var. 10

11.1.1 Floor plan

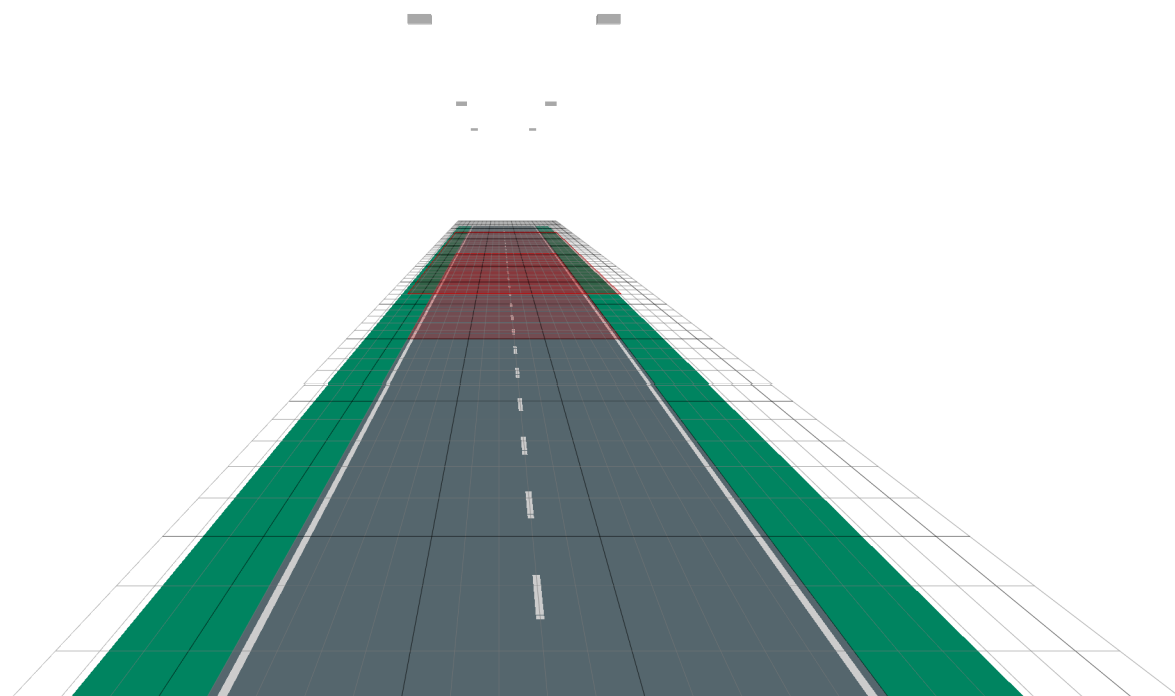


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	: 7.00 m	photometric centre height	:10.50 m
No. of lanes	: 2	Luminaire spacing	: 41.00 m
Road surface category	: R3	Luminaires - outreach	: 0.40 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

11.1 Description, Komunikace propojovací var. 10

11.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

11 Komunikace propojovací var. 10

11.2 Summary, Komunikace propojovací var. 10

11.2.1 Result overview, Road

Luminaire data

Manufacturer : Thorn
Order No. : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5] ()
Luminaire name : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]
Equipment : 1 x HIT-CE 150 W / 14000 lm

Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	(b): 7.00 m	photometric centre height. (h):	10.50 m
No. of lanes	: 2	Luminaire spacing	(a): 41.00 m
Road surface category	: R3	Luminaires - outreach	(u): 0.40 m
q0	: 0.07	Inclination	(δ): 0.00°
Right hand drivers		Reduction factor	: 0.60

Luminance

Observer location 1 : x=-60.00m, y=1.75m, z=1.50m
Average : 0.61 cd/m²
U0 (min/average) : 0.52

Observer location 2 : x=101.00m, y=5.25m, z=1.50m
Average : 0.61 cd/m²
U0 (min/average) : 0.52

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.41
UI (B2: x = 101.00, y = 5.25, z = 1.50) : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

11 Komunikace propojovací var. 10

11.2 Summary, Komunikace propojovací var. 10

11.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 2.64 %
SR	: 0.86

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

11 Komunikace propojovací var. 10

11.3 Calculation results, Komunikace propojovací var. 10

11.3.1 Table, Road (L)

[m]	0.67	0.63	0.48	0.36	(0.32)	(0.32)	0.34	0.49	0.64	0.72	0.77	0.81	0.84	0.73
6.42	0.67	0.63	0.47	0.38	0.35	0.37	0.41	0.58	0.74	0.79	0.83	0.86	0.85	0.74
5.25	0.67	0.63	0.47	0.38	0.35	0.37	0.41	0.58	0.74	0.79	0.83	0.86	0.85	0.74
4.08	0.65	0.61	0.46	0.38	0.36	0.39	0.45	0.62	0.78	0.81	0.82	[0.88]	0.84	0.71
2.92	0.64	0.61	0.46	0.38	0.36	0.39	0.45	0.61	0.78	0.8	0.81	[0.88]	0.85	0.71
1.75	0.67	0.63	0.48	0.38	0.36	0.38	0.42	0.58	0.75	0.8	0.83	0.87	0.86	0.74
0.58	0.68	0.64	0.49	0.38	0.34	0.34	0.37	0.52	0.68	0.75	0.79	0.84	0.85	0.74
	1.46	4.39	7.32	10.25	13.18	16.11	19.04	21.96	24.89	27.82	30.75	33.68	36.61	39.5
	Luminance [cd/m2]													

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.61 cd/m ²
Minimum luminance	Lmin : 0.32 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.52
Threshold increment	TI : 2.6 %
Longitudinal uniformity UI	Llmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

11.3 Calculation results, Komunikace propojovací var. 10

11.3.2 Table, Road (L)

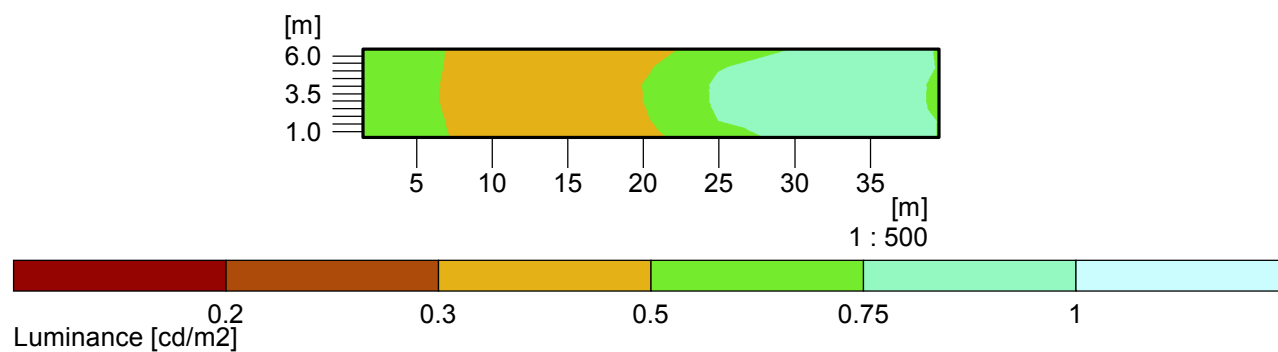
[m]	0.74	0.85	0.84	0.79	0.75	0.68	0.52	0.37	0.34	0.34	0.38	0.49	0.64	0.68
6.42	0.74	0.86	0.87	0.83	0.8	0.75	0.58	0.42	0.38	0.36	0.38	0.48	0.63	0.67
5.25	0.71	0.85	[0.88]	0.81	0.8	0.78	0.61	0.45	0.39	0.36	0.38	0.46	0.61	0.64
4.08	0.71	0.84	[0.88]	0.82	0.81	0.78	0.62	0.45	0.39	0.36	0.38	0.46	0.61	0.65
2.92	0.74	0.85	0.86	0.83	0.79	0.74	0.58	0.41	0.37	0.35	0.38	0.47	0.63	0.67
1.75	0.73	0.84	0.81	0.77	0.72	0.64	0.49	0.34	(0.32)	(0.32)	0.36	0.48	0.63	0.67
0.58	1.46	4.39	7.32	10.25	13.18	16.11	19.04	21.96	24.89	27.82	30.75	33.68	36.61	39.5
	Luminance [cd/m2]													

Observer location 2	: x = 101, y = 5.25, z = 1.5
Average luminance	Lav : 0.61 cd/m ²
Minimum luminance	Lmin : 0.32 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.52
Threshold increment	TI : 2.6 %
Longitudinal uniformity UI	Llmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

11.3 Calculation results, Komunikace propojovací var. 10

11.3.3 Pseudo colours, Road (L)

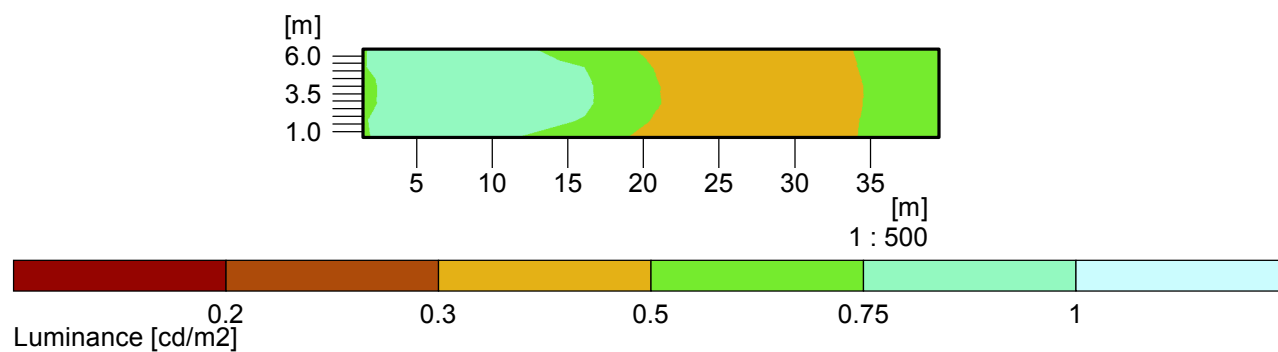


Observer location 1		: x = -60, y = 1.75, z = 1.5
Average luminance	Lav	: 0.61 cd/m²
Minimum luminance	Lmin	: 0.32 cd/m²
Overall uniformity U0	Lmin/Lm	: 0.52
Threshold increment	TI	: 2.6 %
Longitudinal uniformity UI	Lmin/Lmax	: 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

11.3 Calculation results, Komunikace propojovací var. 10

11.3.4 Pseudo colours, Road (L)



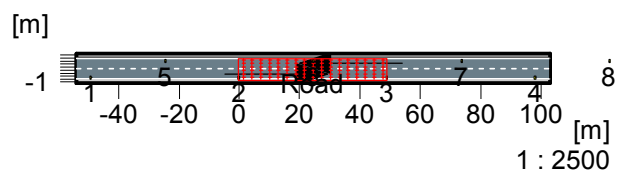
Observer location 2	: x = 101, y = 5.25, z = 1.5
Average luminance	Lav : 0.61 cd/m²
Minimum luminance	Lmin : 0.32 cd/m²
Overall uniformity U0	Lmin/Lm : 0.52
Threshold increment	TI : 2.6 %
Longitudinal uniformity UI	Lmin/Llmax : 0.41

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

12 Komunikace propojovací var. 11

12.1 Description, Komunikace propojovací var. 11

12.1.1 Floor plan

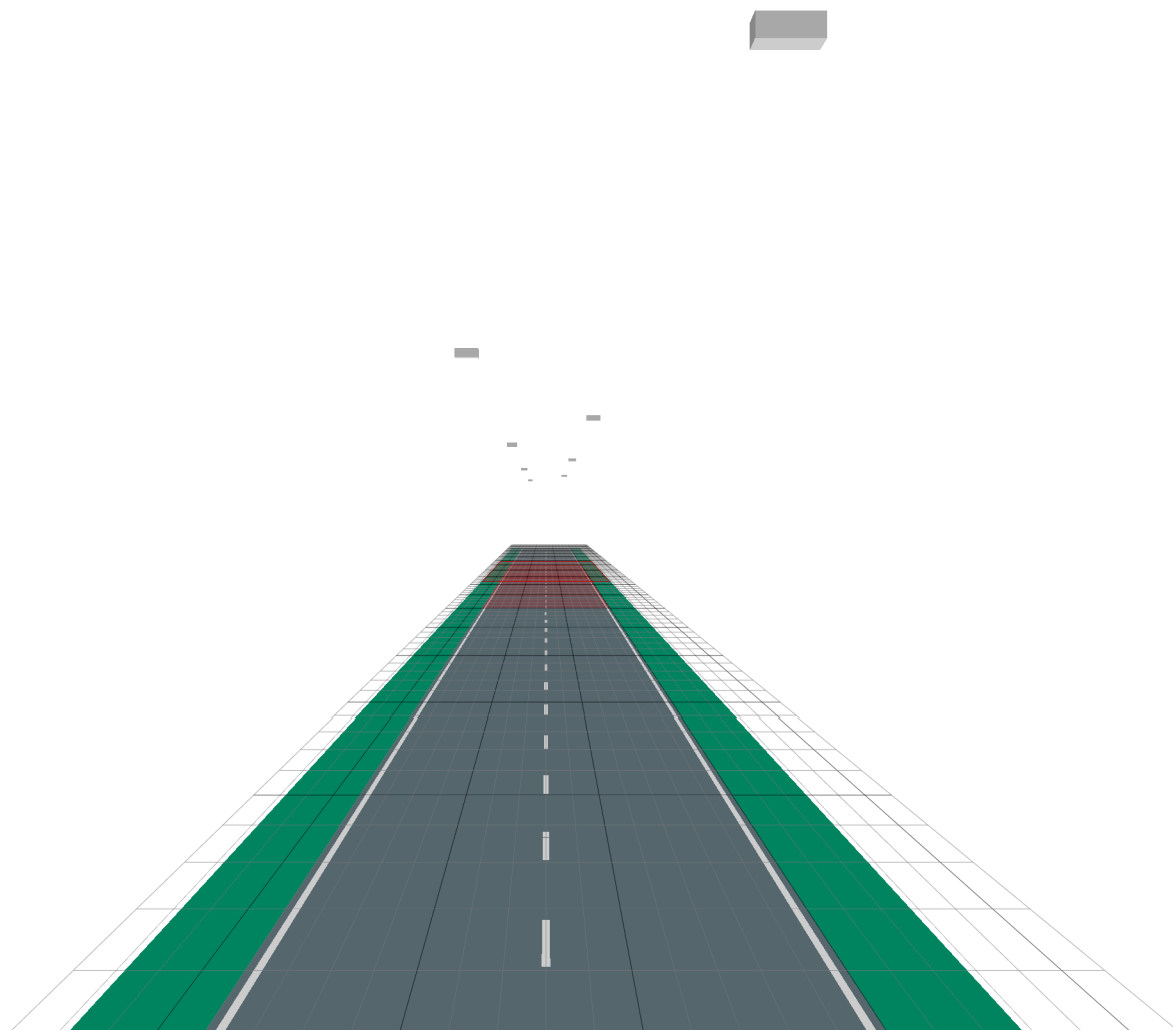


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway	: 7.00 m	photometric centre height	:10.50 m
No. of lanes	: 2	Luminaire spacing	: 49.00 m
Road surface category	: R3	Luminaires - outreach	: 0.90 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

12.1 Description, Komunikace propojovací var. 11

12.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

12 Komunikace propojovací var. 11

12.2 Summary, Komunikace propojovací var. 11

12.2.1 Result overview, Road

Luminaire data

Manufacturer : Thorn
Order No. : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5] ()
Luminaire name : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]
Equipment : 1 x HIT-CE 150 W / 14000 lm

Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway	(b): 7.00 m	photometric centre height. (h):	10.50 m
No. of lanes	: 2	Luminaire spacing	(a): 49.00 m
Road surface category	: R3	Luminaires - outreach	(u): 0.90 m
q0	: 0.07	Inclination	(δ): 0.00°
Right hand drivers		Reduction factor	: 0.60

Luminance

Observer location 1 : x=-60.00m, y=1.75m, z=1.50m
Average : 0.5 cd/m²
U0 (min/average) : 0.71

Observer location 2 : x=133.50m, y=5.25m, z=1.50m
Average : 0.5 cd/m²
U0 (min/average) : 0.71

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.65
UI (B2: x = 133.50, y = 5.25, z = 1.50) : 0.65

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
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12 Komunikace propojovací var. 11

12.2 Summary, Komunikace propojovací var. 11

12.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B2: y=5.25m)	: 1.55 %
SR	: 0.91

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

12 Komunikace propojovací var. 11

12.3 Calculation results, Komunikace propojovací var. 11

12.3.1 Table, Road (L)

[m]	0.51	0.56	0.56	0.56	0.53	0.48	0.43	0.39	(0.35)	0.36	0.38	0.4	0.41	0.45
6.42	0.51	0.58	0.61	[0.62]	0.58	0.54	0.48	0.42	0.37	0.4	0.44	0.47	0.46	0.48
5.25	0.48	0.58	0.61	[0.62]	0.59	0.55	0.51	0.46	0.37	0.45	0.5	0.54	0.51	0.51
4.08	0.45	0.52	0.56	0.56	0.53	0.53	0.53	0.49	0.41	0.5	0.56	0.58	0.57	0.55
2.92	0.4	0.45	0.49	0.5	0.49	0.52	0.55	0.54	0.46	0.55	0.6	0.61	0.59	0.56
1.75	0.37	0.39	0.42	0.44	0.45	0.5	0.56	0.56	0.49	0.56	0.6	0.59	0.56	0.52
0.58	1.44	4.32	7.21	10.09	12.97	15.85	18.74	21.62	24.50	27.38	30.26	33.15	36.03	38.91
	Luminance [cd/m2]													

Part1

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.5 cd/m ²
Minimum luminance	Lmin : 0.35 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.71
Threshold increment	TI : 1.6 %
Longitudinal uniformity UI	Llmin/Llmax : 0.65

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

12 Komunikace propojovací var. 11

12.3 Calculation results, Komunikace propojovací var. 11

12.3.1 Table, Road (L)

0.5 └	0.55 └	0.53 └
0.53 └	0.53 └	0.51 └
0.54 └	0.52 └	0.46 └
0.54 └	0.49 └	0.43 └
0.52 └	0.47 └	0.4 └
0.47 └	0.43 └	0.38 └
41.79	44.68	47.56 [m]

Part2

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

12.3 Calculation results, Komunikace propojovací var. 11

12.3.2 Table, Road (L)

[m]	0.38	0.43	0.47	0.52	0.56	0.59	0.6	0.56	0.49	0.56	0.56	0.5	0.45	0.44
6.42	0.4	0.47	0.52	0.56	0.59	0.61	0.6	0.55	0.46	0.54	0.55	0.52	0.49	0.5
5.25	0.43	0.49	0.54	0.55	0.57	0.58	0.56	0.5	0.41	0.49	0.53	0.53	0.53	0.56
4.08	0.46	0.52	0.54	0.51	0.51	0.54	0.5	0.45	0.37	0.46	0.51	0.55	0.59	[0.62]
2.92	0.51	0.53	0.53	0.48	0.46	0.47	0.44	0.4	0.37	0.42	0.48	0.54	0.58	[0.62]
1.75	0.53	0.55	0.5	0.45	0.41	0.4	0.38	0.36	(0.35)	0.39	0.43	0.48	0.53	0.56
0.58	1.44	4.32	7.21	10.09	12.97	15.85	18.74	21.62	24.50	27.38	30.26	33.15	36.03	38.91
	Luminance [cd/m2]													

Part1

Observer location 2	: x = 134, y = 5.25, z = 1.5
Average luminance	Lav : 0.5 cd/m ²
Minimum luminance	Lmin : 0.35 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.71
Threshold increment	TI : 1.6 %
Longitudinal uniformity UI	Llmin/Llmax : 0.65

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

12.3 Calculation results, Komunikace propojovací var. 11

12.3.2 Table, Road (L)

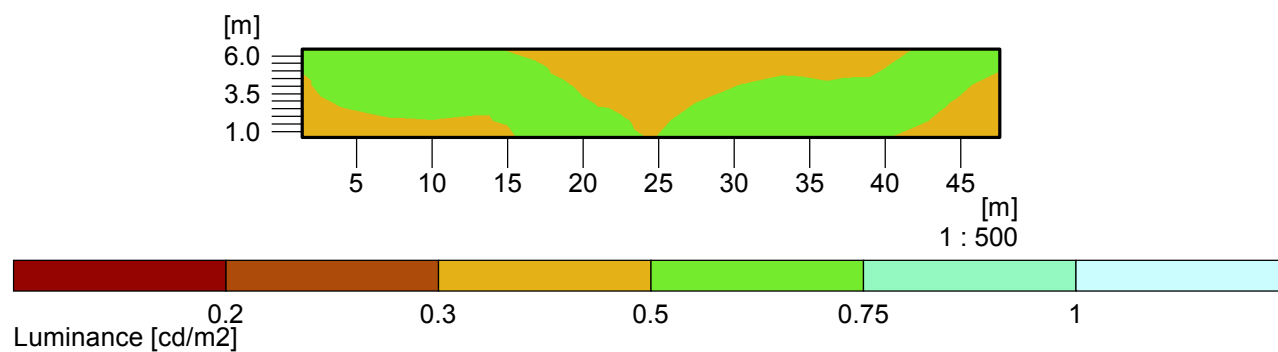
0.42 └	0.39 └	0.37 └
0.49 └	0.45 └	0.4 └
0.56 └	0.52 └	0.45 └
0.61 └	0.58 └	0.48 └
0.61 └	0.58 └	0.51 └
0.56 └	0.56 └	0.51 └
41.79	44.68	47.56 [m]

Part2

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

12.3 Calculation results, Komunikace propojovací var. 11

12.3.3 Pseudo colours, Road (L)

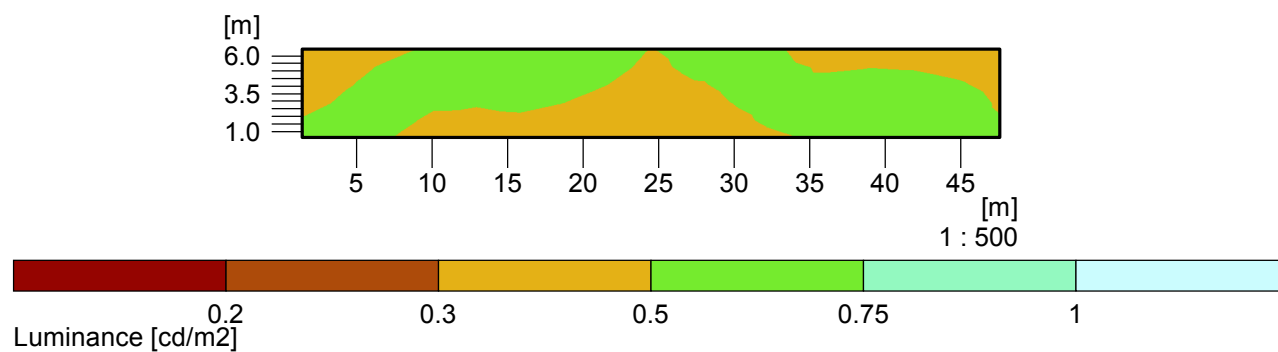


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.5 cd/m^2
Minimum luminance	Lmin : 0.35 cd/m^2
Overall uniformity U0	Lmin/Lm : 0.71
Threshold increment	TI : 1.6 %
Longitudinal uniformity UI	Lmin/Lmax : 0.65

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

12.3 Calculation results, Komunikace propojovací var. 11

12.3.4 Pseudo colours, Road (L)



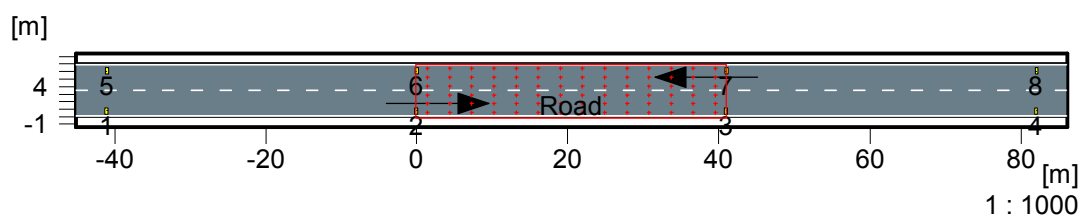
Observer location 2	: x = 134, y = 5.25, z = 1.5
Average luminance	Lav : 0.5 cd/m²
Minimum luminance	Lmin : 0.35 cd/m²
Overall uniformity U0	Lmin/Lm : 0.71
Threshold increment	TI : 1.6 %
Longitudinal uniformity UI	Lmin/Llmax : 0.65

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

13 Komunikace propojovací var. 12

13.1 Description, Komunikace propojovací var. 12

13.1.1 Floor plan

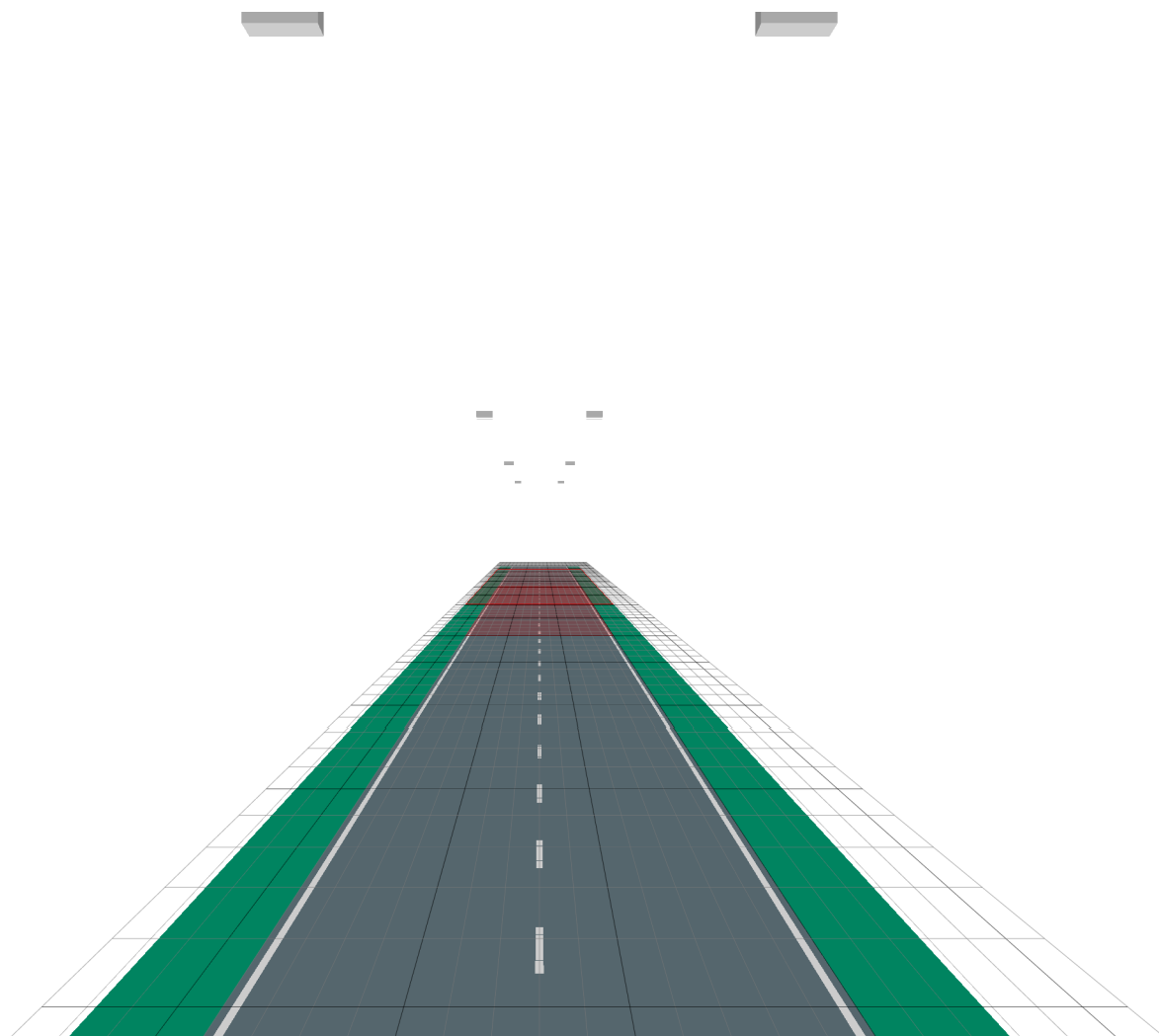


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	: 7.00 m	photometric centre height	:10.50 m
No. of lanes	: 2	Luminaire spacing	: 41.00 m
Road surface category	: R3	Luminaires - outreach	: 0.90 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

13.1 Description, Komunikace propojovací var. 12

13.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

13 Komunikace propojovací var. 12

13.2 Summary, Komunikace propojovací var. 12

13.2.1 Result overview, Road

Luminaire data

Manufacturer : Thorn
Order No. : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5] ()
Luminaire name : CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]
Equipment : 1 x HIT-CE 150 W / 14000 lm

Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	(b): 7.00 m	photometric centre height. (h):	10.50 m
No. of lanes	: 2	Luminaire spacing	(a): 41.00 m
Road surface category	: R3	Luminaires - outreach	(u): 0.90 m
q0	: 0.07	Inclination	(δ): 0.00°
Right hand drivers		Reduction factor	: 0.60

Luminance

Observer location 1 : x=-60.00m, y=1.75m, z=1.50m
Average : 0.6 cd/m²
U0 (min/average) : 0.5

Observer location 2 : x=101.00m, y=5.25m, z=1.50m
Average : 0.6 cd/m²
U0 (min/average) : 0.5

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.40
UI (B2: x = 101.00, y = 5.25, z = 1.50) : 0.40

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

13 Komunikace propojovací var. 12

13.2 Summary, Komunikace propojovací var. 12

13.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 2.45 %
SR	: 0.91

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

13 Komunikace propojovací var. 12

13.3 Calculation results, Komunikace propojovací var. 12

13.3.1 Table, Road (L)

[m]	0.66	0.61	0.45	0.34	0.31	(0.3)	0.32	0.45	0.61	0.7	0.74	0.79	0.82	0.73
6.42	0.63	0.58	0.45	0.36	0.33	0.35	0.39	0.56	0.74	0.79	0.82	0.85	0.81	0.7
5.25	0.6	0.58	0.44	0.38	0.35	0.38	0.44	0.63	0.8	0.83	0.85	[0.87]	0.82	0.67
4.08	0.6	0.58	0.45	0.38	0.36	0.38	0.44	0.63	0.8	0.83	0.84	[0.87]	0.83	0.67
2.92	0.63	0.59	0.46	0.37	0.35	0.37	0.42	0.59	0.76	0.81	0.83	0.86	0.82	0.71
1.75	0.67	0.62	0.46	0.36	0.33	0.33	0.35	0.5	0.66	0.73	0.77	0.81	0.83	0.74
0.58	1.46	4.39	7.32	10.25	13.18	16.11	19.04	21.96	24.89	27.82	30.75	33.68	36.61	39.5
	Luminance [cd/m2]													

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.6 cd/m ²
Minimum luminance	Lmin : 0.3 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.5
Threshold increment	TI : 2.4 %
Longitudinal uniformity UI	Llmin/Llmax : 0.4

Object : Studie verejného osvetlení - komunikace propojovací
 Installation :
 Project number :
 Date : 20.12.2007

13.3 Calculation results, Komunikace propojovací var. 12

13.3.2 Table, Road (L)

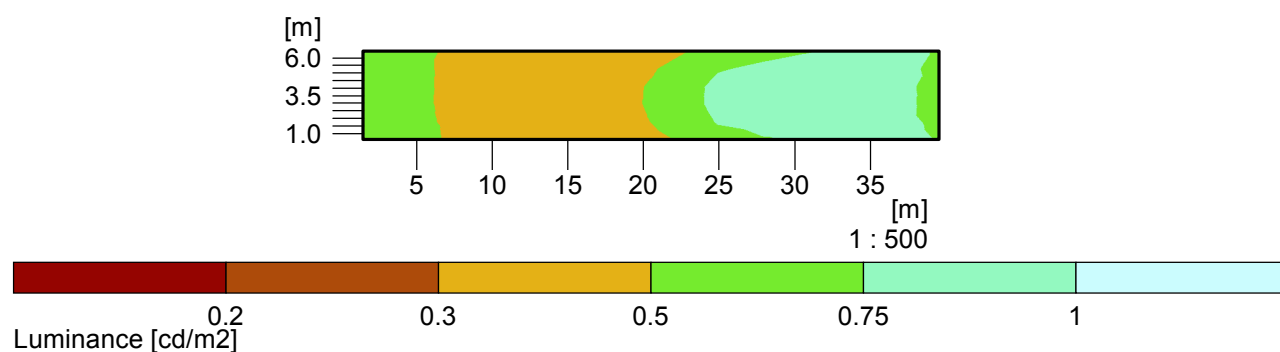
[m]	0.74	0.83	0.81	0.77	0.73	0.66	0.5	0.35	0.33	0.33	0.36	0.46	0.62	0.67
6.42	0.71	0.82	0.86	0.83	0.81	0.76	0.59	0.42	0.37	0.35	0.37	0.46	0.59	0.63
5.25	0.67	0.83	0.87	0.84	0.83	0.8	0.63	0.44	0.38	0.36	0.38	0.45	0.58	0.6
4.08	0.67	0.82	0.87	0.85	0.83	0.8	0.63	0.44	0.38	0.35	0.38	0.44	0.58	0.6
2.92	0.7	0.81	0.85	0.82	0.79	0.74	0.56	0.39	0.35	0.33	0.36	0.45	0.58	0.63
1.75	0.73	0.82	0.79	0.74	0.7	0.61	0.45	0.32	0.3	0.31	0.34	0.45	0.61	0.66
0.58	1.46	4.39	7.32	10.25	13.18	16.11	19.04	21.96	24.89	27.82	30.75	33.68	36.61	39.5
	Luminance [cd/m2]													

Observer location 2	: x = 101, y = 5.25, z = 1.5
Average luminance	Lav : 0.6 cd/m ²
Minimum luminance	Lmin : 0.3 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.5
Threshold increment	TI : 2.4 %
Longitudinal uniformity UI	Llmin/Llmax : 0.4

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

13.3 Calculation results, Komunikace propojovací var. 12

13.3.3 Pseudo colours, Road (L)

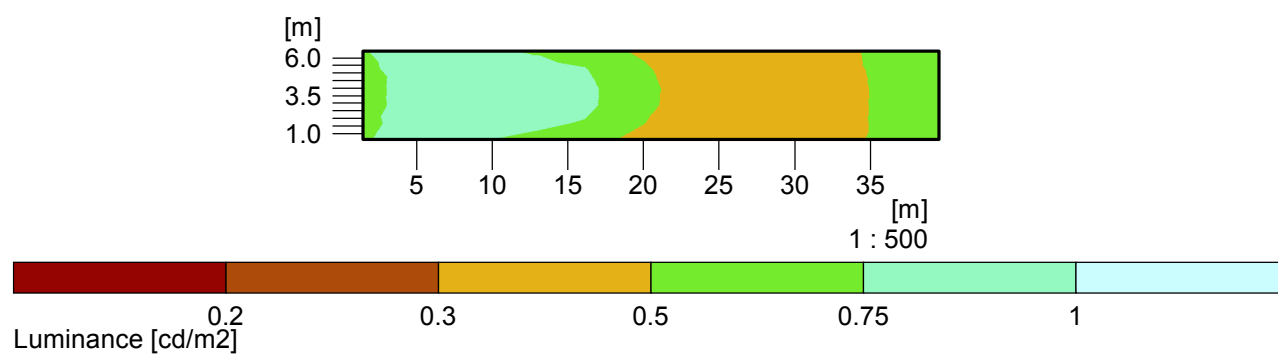


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.6 cd/m²
Minimum luminance	Lmin : 0.3 cd/m²
Overall uniformity U0	Lmin/Lm : 0.5
Threshold increment	TI : 2.4 %
Longitudinal uniformity UI	Lmin/Llmax : 0.4

Object : Studie verejného osvetlení - komunikace propojovací
Installation :
Project number :
Date : 20.12.2007

13.3 Calculation results, Komunikace propojovací var. 12

13.3.4 Pseudo colours, Road (L)



Observer location 2	: x = 101, y = 5.25, z = 1.5
Average luminance	Lav : 0.6 cd/m ²
Minimum luminance	Lmin : 0.3 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.5
Threshold increment	TI : 2.4 %
Longitudinal uniformity UI	Lmin/Llmax : 0.4