

Studie verejného osvetlení - komunikace prujezdni 2

Installation :

Project number :

Customer :

Processed by : Ing. Eva Truneckova

Date : 19.12.2007

Project description:

Komunikace prujezdni s obousmernym provozem

1. Zadani:

sirka mezi vodicimi pruhy	7m
sirka jizdniho pruhu	3.5m
pocet jizdnich pruhu v jednom smeru	1
umisteni stozaru od hrany komunikace	1m

2. Pozadavky dle CSN EN 13201 - ME4b:

prumerna hodnota jasu	> 0.75cd/m2
celkova rovnomernost	> 0.4
podelna rovnomernost	> 0.5
cinictel oslneni	< 15%
osvetlenost okoli	> 0.5

3. Variantni zpracovani studie:

- vyska stozaru 8m, resp. 10m
- umisteni svitidla primo na sloupu, na vylozniku 1m, resp. na vylozniku 1.5m
- osvetlovaci soustava stridava, resp. oboustranna

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

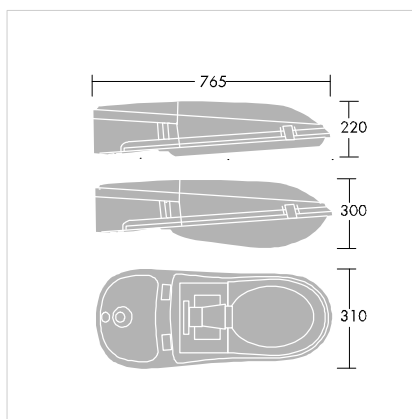
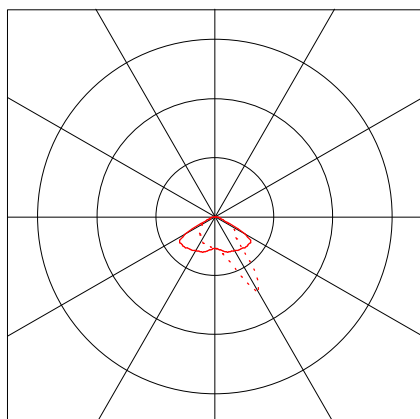
CIVIC 2 150W HID 240V CL1 EFL + HIT-CE 150W [V3L5]

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

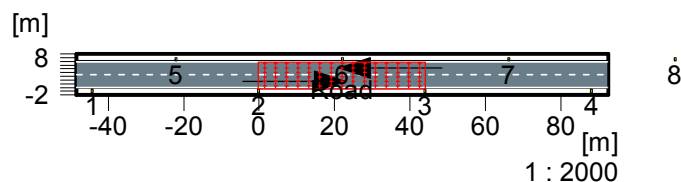


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2 Komunikace prujezdni 2 var. 1

2.1 Description, Komunikace prujezdni 2 var. 1

2.1.1 Floor plan

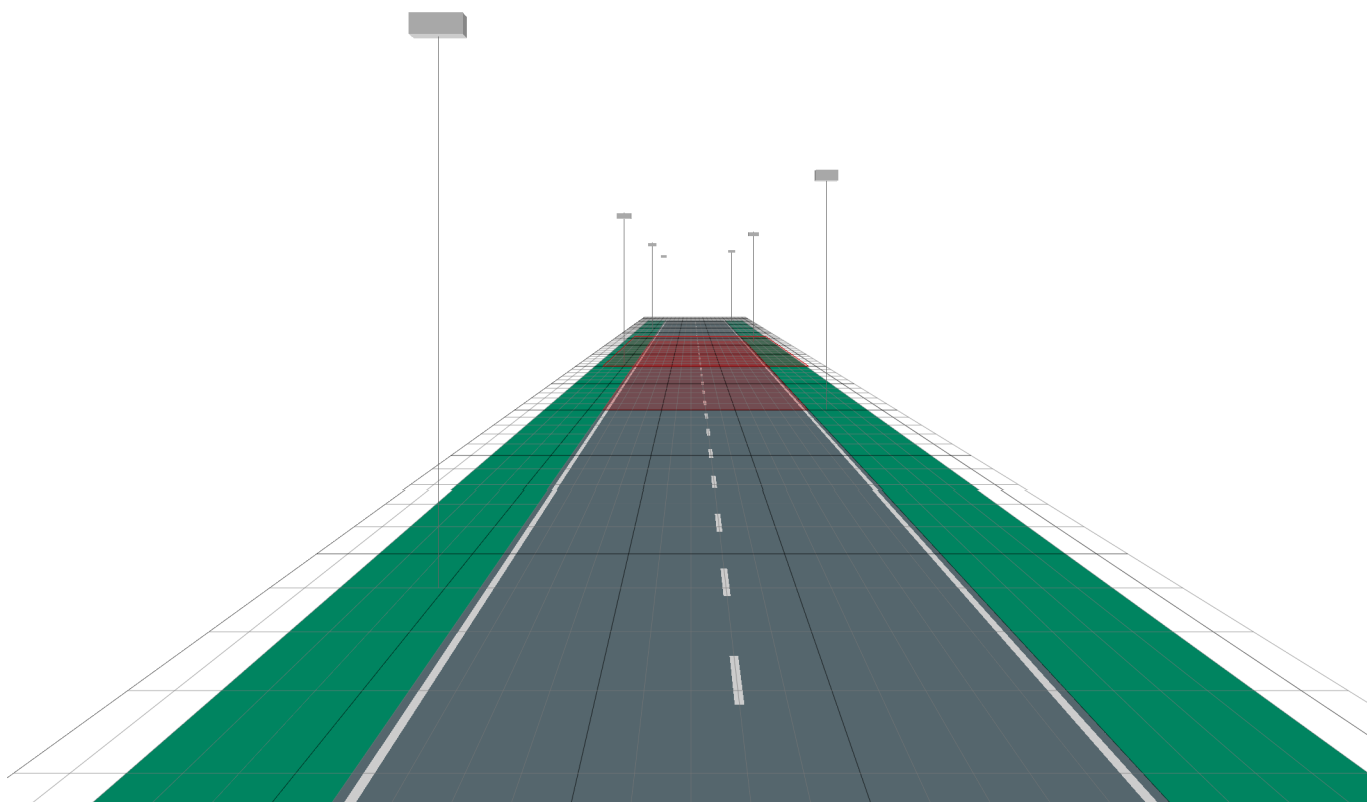


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway	: 7.00 m	photometric centre height	:8.00 m
No. of lanes	: 2	Luminaire spacing	: 44.00 m
Road surface category	: R3	Luminaires - outreach	: -0.60 m
q0	: 0.07	Inclination	: 0.00°

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2.1 Description, Komunikace prujezdni 2 var. 1

2.1.2 3D view, View from the left



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

2.2 Summary, Komunikace pruhovazní 2 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): 44.00 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 : 0.76 cd/m²
U0 (min/average) : 0.44

Observer location 2 : x=126.00m, y=5.25m, z=1.50m
Average : 0.76 cd/m²
U0 (min/average) : 0.44

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.61
UI (B2: x = 126.00, y = 5.25, z = 1.50) : 0.61

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2 Komunikace prujezdni 2 var. 1

2.2 Summary, Komunikace prujezdni 2 var. 1

2.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B2: y=5.25m)	: 2.68 %
SR	: 0.6

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2 Komunikace prujezdni 2 var. 1

2.3 Calculation results, Komunikace prujezdni 2 var. 1

2.3.1 Table, Road (L)

[m]	0.41	0.62	1.01	[1.17]	1.05	0.89	0.73	0.53	0.6	0.57	0.65	0.75	0.68	0.49
6.42	0.69	0.88	1	1.03	0.93	0.88	0.82	0.61	0.68	0.58	0.61	0.7	0.78	0.78
5.25	0.89	0.9	0.81	0.86	0.82	0.88	0.89	0.74	0.78	0.64	0.65	0.7	0.78	0.94
4.08	0.84	0.74	0.67	0.72	0.75	0.88	0.95	0.82	0.89	0.77	0.76	0.77	0.79	0.89
2.92	0.68	0.64	0.61	0.68	0.76	0.83	0.72	0.57	0.75	0.88	0.94	0.9	0.84	0.85
1.75	0.59	0.59	0.61	0.73	0.73	0.63	0.43	(0.33)	0.5	0.8	1.07	1.06	0.94	0.8
0.58	1.47	4.40	7.33	10.27	13.20	16.13	19.07	22.00	24.93	27.87	30.80	33.73	36.67	39.60
	Luminance [cd/m2]													

Part1

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.33 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.44
Threshold increment	TI : 2.7 %
Longitudinal uniformity UI	Llmin/Llmax : 0.61

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

2.3 Calculation results, Komunikace prujezdni 2 var. 1

2.3.1 Table, Road (L)

0.37	+
0.62	+
0.88	+
0.86	+
0.72	+
0.64	+
42.53	[m]

Part2

Object : Studie verejného osvetlení - komunikace pruhovní 2
 Installation :
 Project number :
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2.3 Calculation results, Komunikace pruhovní 2 var. 1

2.3.2 Table, Road (L)

[m]	0.64	0.8	0.94	1.06	1.07	0.8	0.5	(0.33)	0.43	0.63	0.73	0.73	0.61	0.59
6.42	0.72	0.85	0.84	0.9	0.94	0.88	0.75	0.57	0.72	0.83	0.76	0.68	0.61	0.64
5.25	0.86	0.89	0.79	0.77	0.76	0.77	0.89	0.82	0.95	0.88	0.75	0.72	0.67	0.74
4.08	0.88	0.94	0.78	0.7	0.65	0.64	0.78	0.74	0.89	0.88	0.82	0.86	0.81	0.9
2.92	0.62	0.78	0.78	0.7	0.61	0.58	0.68	0.61	0.82	0.88	0.93	1.03	1	0.88
1.75	0.37	0.49	0.68	0.75	0.65	0.57	0.6	0.53	0.73	0.89	1.05	[1.17]	1.01	0.62
0.58	1.47	4.40	7.33	10.27	13.20	16.13	19.07	22.00	24.93	27.87	30.80	33.73	36.67	39.60
	Luminance [cd/m ²]													

Part1

Observer location 2	: x = 126, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.33 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.44
Threshold increment	TI : 2.7 %
Longitudinal uniformity UI	Llmin/Llmax : 0.61

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2.3 Calculation results, Komunikace prujezdni 2 var. 1

2.3.2 Table, Road (L)

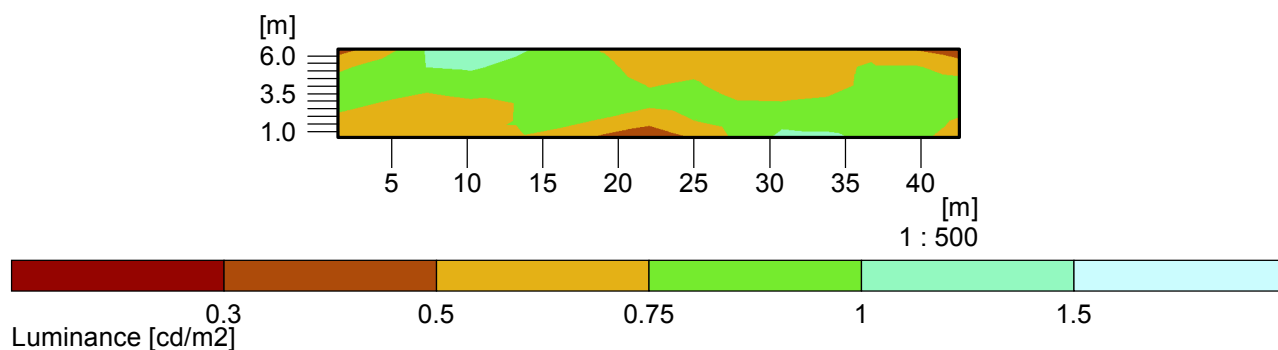
0.59
└
0.68
└
0.84
└
0.89
└
0.69
└
0.41
└
42.53 [m]

Part2

Object : Studie verejného osvetlení - komunikace prujezdni 2
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2.3 Calculation results, Komunikace prujezdni 2 var. 1

2.3.3 Pseudo colours, Road (L)

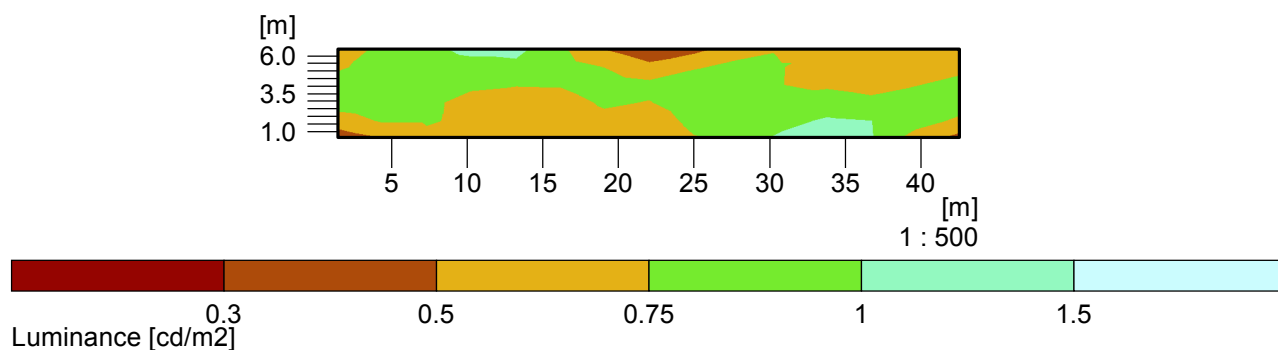


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.33 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.44
Threshold increment	TI : 2.7 %
Longitudinal uniformity UI	Lmin/Llmax : 0.61

Object : Studie verejného osvetlení - komunikace prujezdni 2
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2.3 Calculation results, Komunikace prujezdni 2 var. 1

2.3.4 Pseudo colours, Road (L)



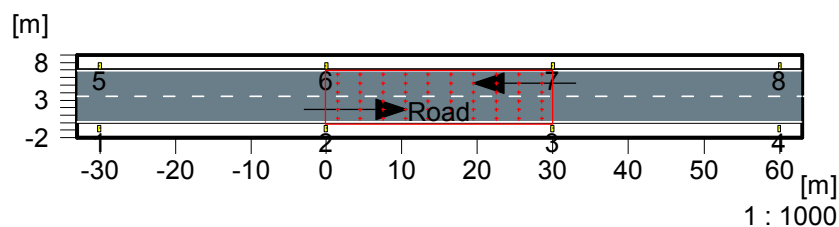
Observer location 2	: x = 126, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m²
Minimum luminance	Lmin : 0.33 cd/m²
Overall uniformity U0	Lmin/Lm : 0.44
Threshold increment	TI : 2.7 %
Longitudinal uniformity UI	Lmin/Llmax : 0.61

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

3.1 Description, Komunikace prujezdni 2 var. 2

3.1.1 Floor plan

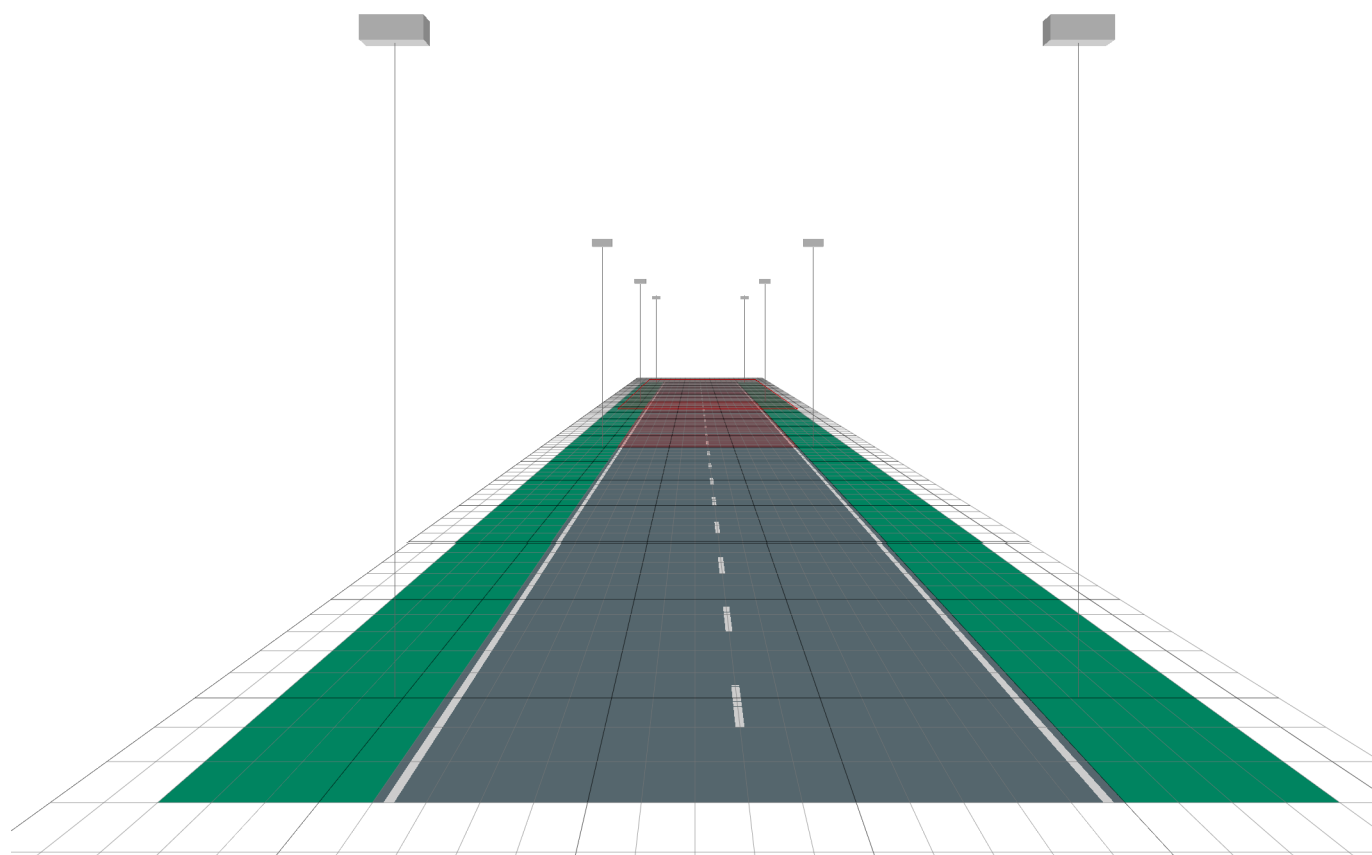


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	: 7.00 m	photometric centre height	:8.00 m
No. of lanes	: 2	Luminaire spacing	: 30.00 m
Road surface category	: R3	Luminaires - outreach	: -0.60 m
q0	: 0.07	Inclination	: 0.00°

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

3.1.2 3D view, View from the left



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

3.2 Summary, Komunikace pruhovní 2 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): 30.00 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 : 1.11 cd/m²
U0 (min/average) : 0.67

Observer location 2 : x=90.00m, y=5.25m, z=1.50m
Average : 1.11 cd/m²
U0 (min/average) : 0.67

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.53
UI (B2: x = 90.00, y = 5.25, z = 1.50) : 0.53

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

3.2 Summary, Komunikace prujezdni 2 var. 2

3.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 4.11 %
SR	: 0.59

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

3.3 Calculation results, Komunikace prujezdni 2 var. 2

3.3.1 Table, Road (L)

[m]	0.76	0.82	0.85	0.83	0.9	1.25	1.45	1.41	1.16	0.84
6.42	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘
5.25	1.08	1.07	0.88	0.81	0.89	1.15	1.32	1.41	1.48	1.17
	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘
4.08	1.44	1.2	0.83	0.76	0.81	1.04	1.21	1.37	[1.69]	1.57
	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘
2.92	1.43	1.19	0.82	(0.74)	0.8	1.01	1.21	1.37	1.67	1.57
	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘
1.75	1.07	1.05	0.86	0.78	0.83	1.1	1.3	1.42	1.48	1.16
	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘
0.58	0.76	0.82	0.85	0.83	0.9	1.23	1.46	1.41	1.16	0.84
	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘
	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50
	Luminance [cd/m2]									

[m]

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 1.11 cd/m ²
Minimum luminance	Lmin : 0.74 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.67
Threshold increment	TI : 4.1 %
Longitudinal uniformity UI	Llmin/Llmax : 0.53

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

3.3.2 Table, Road (L)

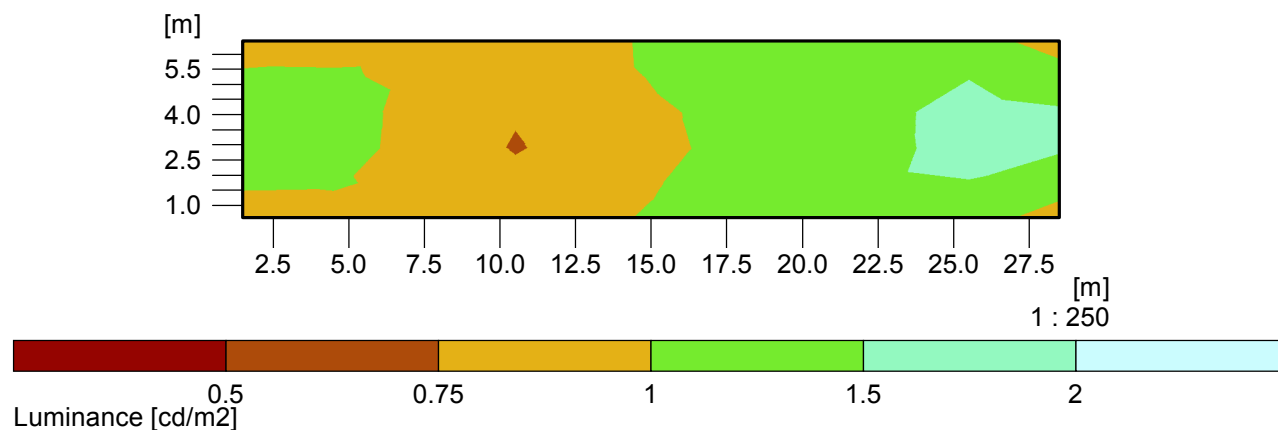
[m]	0.84	1.16	1.41	1.46	1.23	0.9	0.83	0.85	0.82	0.76
6.42	1.16	1.48	1.42	1.3	1.1	0.83	0.78	0.86	1.05	1.07
5.25	1.57	1.67	1.37	1.21	1.01	0.8	(0.74)	0.82	1.19	1.43
4.08	1.57	[1.69]	1.37	1.21	1.04	0.81	0.76	0.83	1.2	1.44
2.92	1.17	1.48	1.41	1.32	1.15	0.89	0.81	0.88	1.07	1.08
1.75	0.84	1.16	1.41	1.45	1.25	0.9	0.83	0.85	0.82	0.76
0.58	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50
	Luminance [cd/m2]									
	[n]									

Observer location 2	: x = 90, y = 5.25, z = 1.5
Average luminance	Lav : 1.11 cd/m ²
Minimum luminance	Lmin : 0.74 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.67
Threshold increment	TI : 4.1 %
Longitudinal uniformity UI	Llmin/Llmax : 0.53

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

3.3.3 Pseudo colours, Road (L)

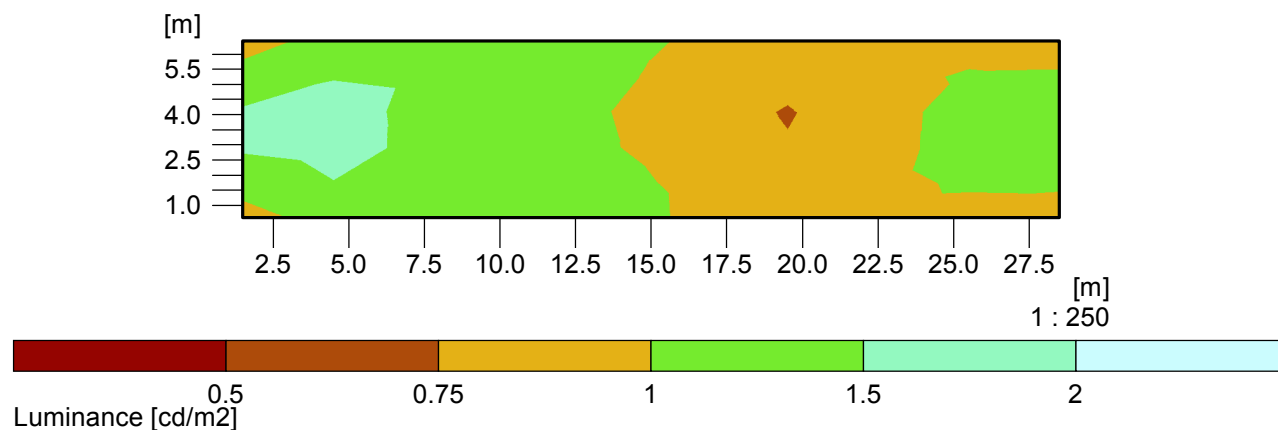


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 1.11 cd/m ²
Minimum luminance	Lmin : 0.74 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.67
Threshold increment	TI : 4.1 %
Longitudinal uniformity UI	Lmin/Llmax : 0.53

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

3.3.4 Pseudo colours, Road (L)



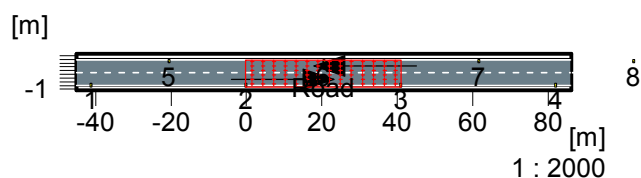
Observer location 2	: x = 90, y = 5.25, z = 1.5
Average luminance	Lav : 1.11 cd/m ²
Minimum luminance	Lmin : 0.74 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.67
Threshold increment	TI : 4.1 %
Longitudinal uniformity UI	Llmin/Llmax : 0.53

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

4.1 Description, Komunikace prujezdni 2 var. 3

4.1.1 Floor plan

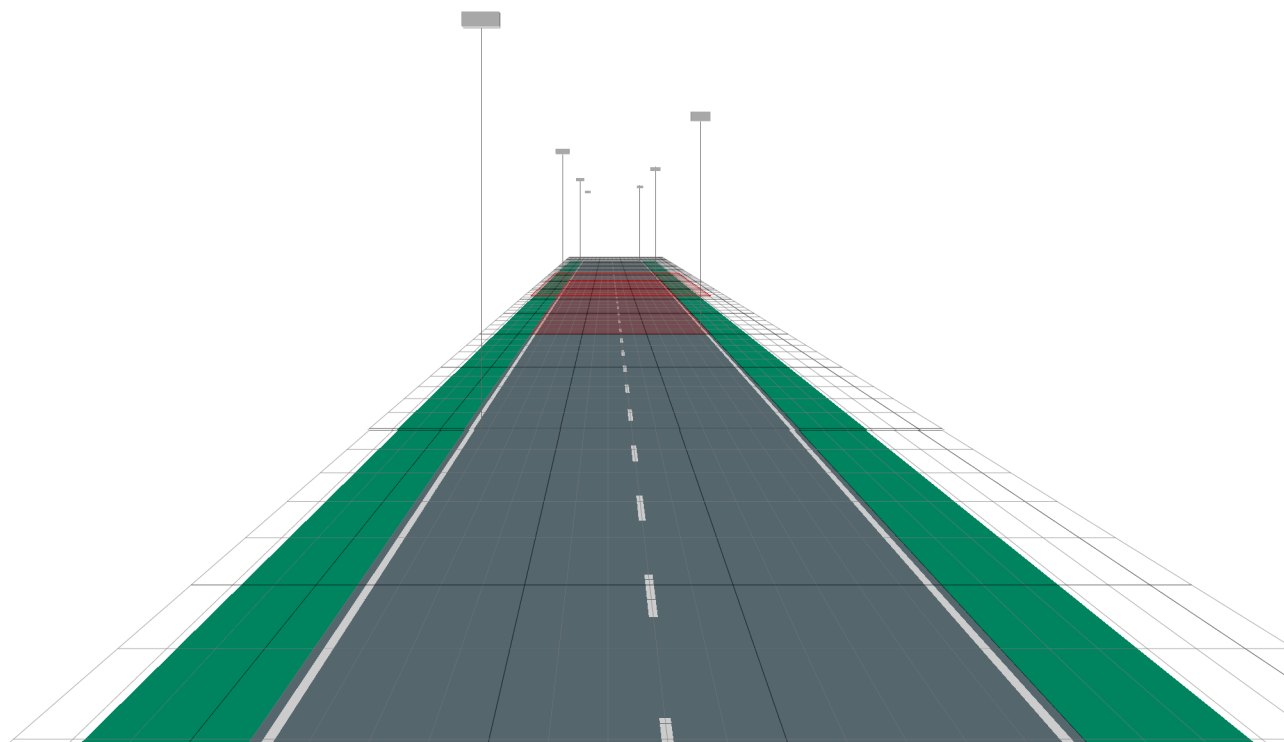


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway	: 7.00 m	photometric centre height	: 8.50 m
No. of lanes	: 2	Luminaire spacing	: 41.00 m
Road surface category	: R3	Luminaires - outreach	: 0.40 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace prujezdni 2
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4.1 Description, Komunikace prujezdni 2 var. 3

4.1.2 3D view, View from the left



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

4.2 Summary, Komunikace prujezdni 2 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):	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 : 0.76 cd/m²
U0 (min/average) : 0.7

Observer location 2 : x=121.50m, y=5.25m, z=1.50m
Average : 0.76 cd/m²
U0 (min/average) : 0.7

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.63
UI (B2: x = 121.50, y = 5.25, z = 1.50) : 0.63

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

4.2 Summary, Komunikace pruhovazní 2 var. 3

4.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B2: y=5.25m)	: 2.91 %
SR	: 0.7

Object : Studie verejného osvetlení - komunikace pruhovní 2
Installation :
Project number :
Date : 19.12.2007

4 Komunikace pruhovní 2 var. 3

4.3 Calculation results, Komunikace pruhovní 2 var. 3

4.3.1 Table, Road (L)

[m]	0.62	0.85	0.96	0.9	0.79	0.69	0.58	(0.53)	0.56	0.57	0.63	0.73	0.73	0.6
6.42	0.88	[1.02]	1.01	0.95	0.86	0.75	0.62	0.59	0.61	0.64	0.66	0.76	0.89	0.85
5.25	0.86	0.91	0.92	0.85	0.81	0.8	0.68	0.67	0.7	0.72	0.71	0.78	0.84	0.83
4.08	0.71	0.75	0.78	0.75	0.79	0.84	0.81	0.8	0.84	0.85	0.79	0.79	0.8	0.7
2.92	0.62	0.65	0.67	0.69	0.79	0.9	0.84	0.85	0.98	0.96	0.9	0.83	0.75	0.64
1.75	0.55	0.58	0.6	0.66	0.77	0.75	0.61	0.64	0.87	0.99	0.9	0.8	0.7	0.59
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/m ²]													

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.53 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.7
Threshold increment	TI : 2.9 %
Longitudinal uniformity UI	Llmin/Llmax : 0.63

Object : Studie verejného osvetlení - komunikace pruhovní 2
Installation :
Project number :
Date : 19.12.2007

4.3 Calculation results, Komunikace pruhovní 2 var. 3

4.3.2 Table, Road (L)

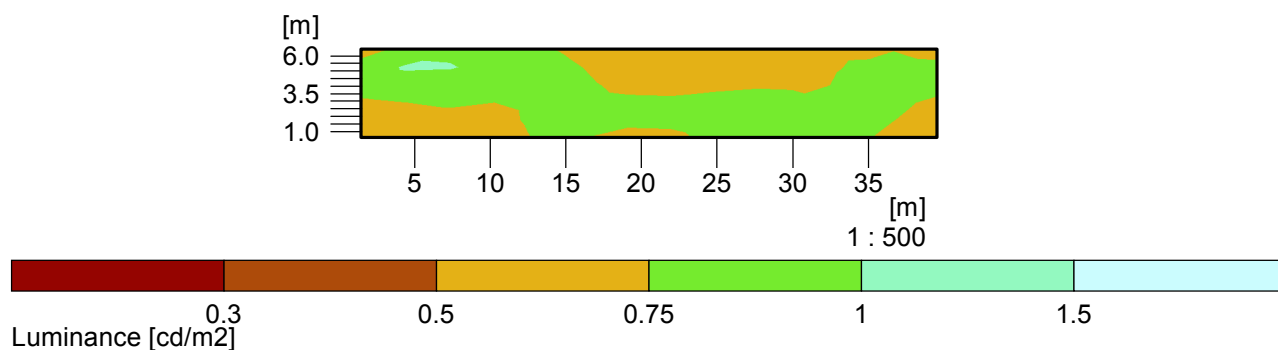
[m]	0.59	0.7	0.8	0.9	0.99	0.87	0.64	0.61	0.75	0.77	0.66	0.6	0.58	0.55
6.42	0.64	0.75	0.83	0.9	0.96	0.98	0.85	0.84	0.9	0.79	0.69	0.67	0.65	0.62
5.25	0.7	0.8	0.79	0.79	0.85	0.84	0.8	0.81	0.84	0.79	0.75	0.78	0.75	0.71
4.08	0.83	0.84	0.78	0.71	0.72	0.7	0.67	0.68	0.8	0.81	0.85	0.92	0.91	0.86
2.92	0.85	0.89	0.76	0.66	0.64	0.61	0.59	0.62	0.75	0.86	0.95	1.01	[1.02]	0.88
1.75	0.6	0.73	0.73	0.63	0.57	0.56	(0.53)	0.58	0.69	0.79	0.9	0.96	0.85	0.62
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/m ²]													

Observer location 2	: x = 122, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.53 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.7
Threshold increment	TI : 2.9 %
Longitudinal uniformity UI	Llmin/Llmax : 0.63

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

4.3 Calculation results, Komunikace prujezdni 2 var. 3

4.3.3 Pseudo colours, Road (L)

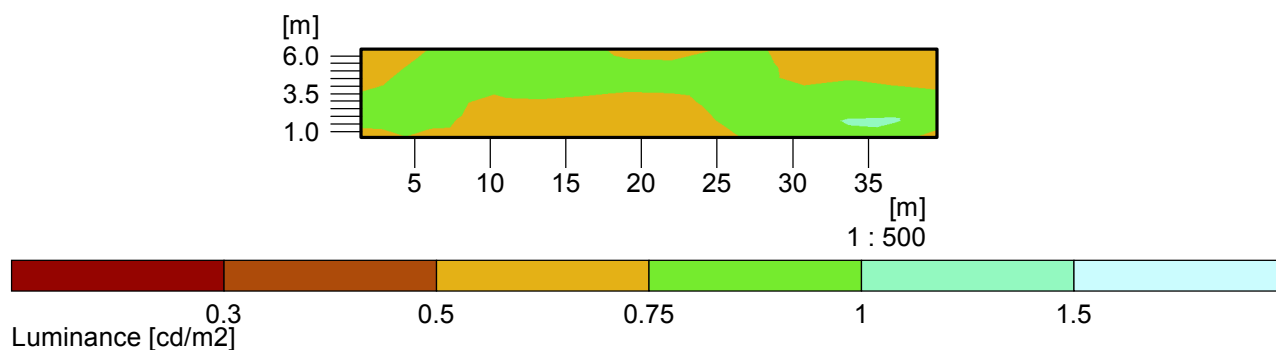


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.53 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.7
Threshold increment	TI : 2.9 %
Longitudinal uniformity UI	Lmin/Llmax : 0.63

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

4.3 Calculation results, Komunikace prujezdni 2 var. 3

4.3.4 Pseudo colours, Road (L)



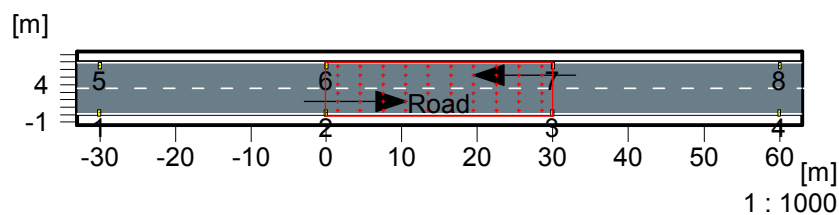
Observer location 2	: x = 122, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.53 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.7
Threshold increment	TI : 2.9 %
Longitudinal uniformity UI	Lmin/Llmax : 0.63

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

5 Komunikace prujezdni 2 var. 4

5.1 Description, Komunikace prujezdni 2 var. 4

5.1.1 Floor plan

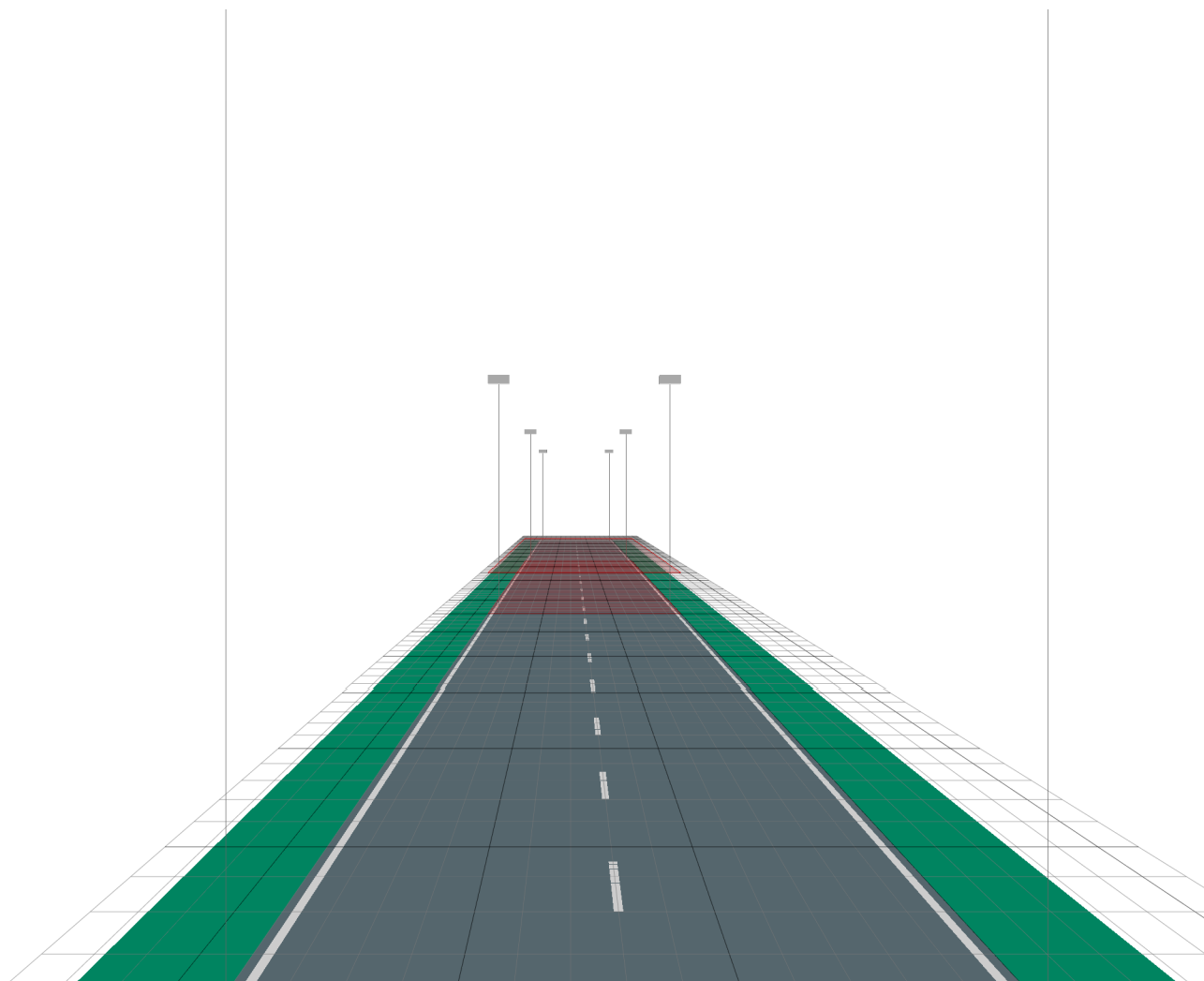


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	: 7.00 m	photometric centre height	:8.50 m
No. of lanes	: 2	Luminaire spacing	: 30.00 m
Road surface category	: R3	Luminaires - outreach	: 0.40 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

5.1 Description, Komunikace prujezdni 2 var. 4

5.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace pruhovazní 2
Installation :
Project number :
Date : 19.12.2007

5 Komunikace pruhovazní 2 var. 4

5.2 Summary, Komunikace pruhovazní 2 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): 30.00 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 : 1.04 cd/m²
U0 (min/average) : 0.63

Observer location 2 : x=90.00m, y=5.25m, z=1.50m
Average : 1.04 cd/m²
U0 (min/average) : 0.63

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.51
UI (B2: x = 90.00, y = 5.25, z = 1.50) : 0.51

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

5 Komunikace prujezdni 2 var. 4

5.2 Summary, Komunikace prujezdni 2 var. 4

5.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B2: y=5.25m)	: 3.24 %
SR	: 0.7

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

5 Komunikace prujezdni 2 var. 4

5.3 Calculation results, Komunikace prujezdni 2 var. 4

5.3.1 Table, Road (L)

[m]	0.87	0.89	0.75	(0.66)	0.76	1	1.14	1.24	1.21	0.96
6.42	└	└	└	└	└	└	└	└	└	└
5.25	1.11	1.01	0.76	0.72	0.88	1.14	1.24	1.32	1.4	1.21
	└	└	└	└	└	└	└	└	└	└
4.08	1.13	0.95	0.75	0.75	0.92	1.16	1.21	1.27	1.39	1.24
	└	└	└	└	└	└	└	└	└	└
2.92	1.12	0.95	0.74	0.73	0.9	1.15	1.19	1.27	1.4	1.24
	└	└	└	└	└	└	└	└	└	└
1.75	1.11	1.01	0.77	0.72	0.88	1.13	1.23	1.33	[1.41]	1.22
	└	└	└	└	└	└	└	└	└	└
0.58	0.89	0.92	0.78	0.69	0.8	1.04	1.18	1.28	1.23	0.97
	└	└	└	└	└	└	└	└	└	└
	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50
	Luminance [cd/m2]									

[n]

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 1.04 cd/m ²
Minimum luminance	Lmin : 0.66 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.63
Threshold increment	TI : 3.2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.51

Object : Studie verejného osvetlení - komunikace prujezdni 2
 Installation :
 Project number :
 Date : 19.12.2007

5.3 Calculation results, Komunikace prujezdni 2 var. 4

5.3.2 Table, Road (L)

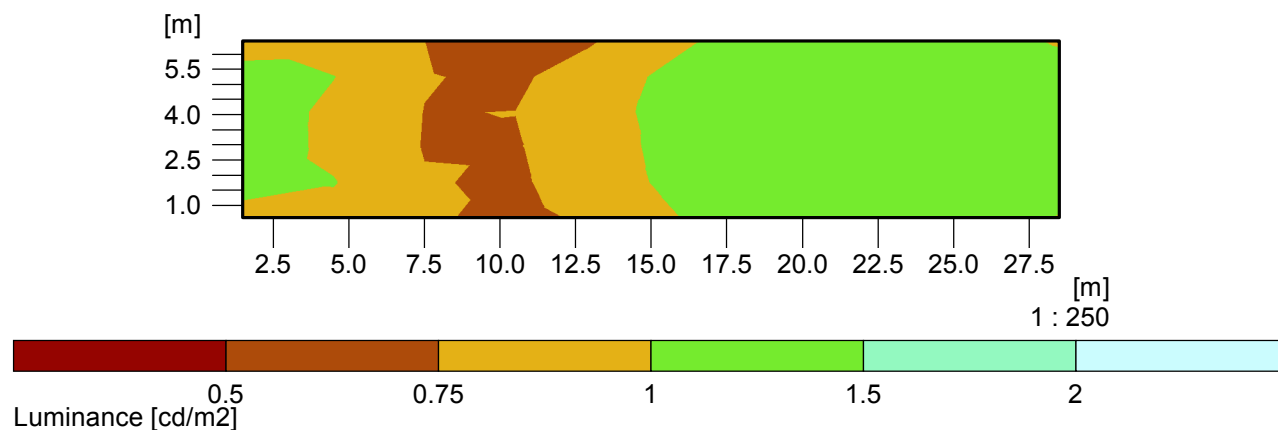
[m]	0.97	1.23	1.28	1.18	1.04	0.8	0.69	0.78	0.92	0.89
6.42	1.22	[1.41]	1.33	1.23	1.13	0.88	0.72	0.77	1.01	1.11
5.25	1.24	1.4	1.27	1.19	1.15	0.9	0.73	0.74	0.95	1.12
4.08	1.24	1.39	1.27	1.21	1.16	0.92	0.75	0.75	0.95	1.13
2.92	1.21	1.4	1.32	1.24	1.14	0.88	0.72	0.76	1.01	1.11
1.75	0.96	1.21	1.24	1.14	1	0.76	(0.66)	0.75	0.89	0.87
0.58	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50
	Luminance [cd/m ²]									

Observer location 2	: x = 90, y = 5.25, z = 1.5
Average luminance	Lav : 1.04 cd/m ²
Minimum luminance	Lmin : 0.66 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.63
Threshold increment	TI : 3.2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.51

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

5.3 Calculation results, Komunikace prujezdni 2 var. 4

5.3.3 Pseudo colours, Road (L)

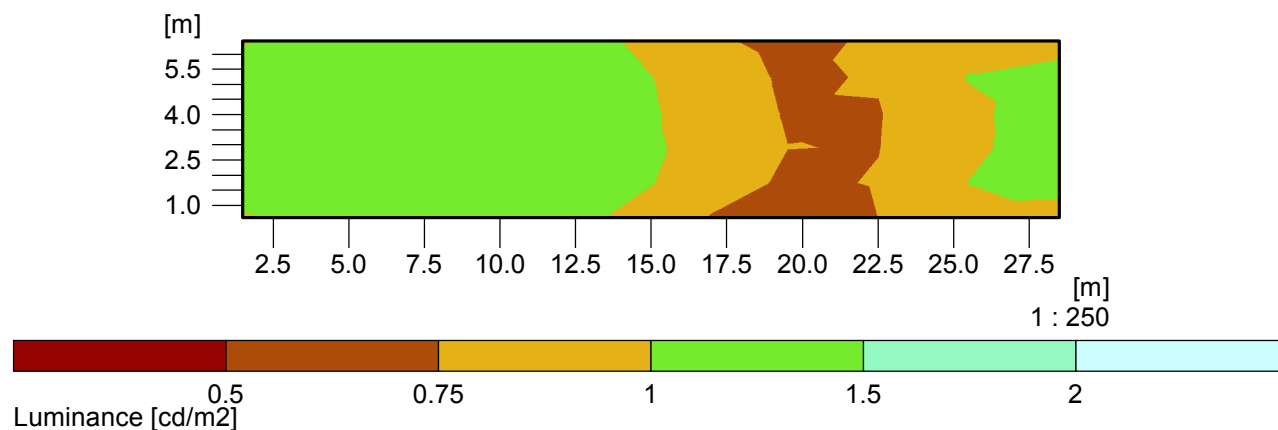


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 1.04 cd/m²
Minimum luminance	Lmin : 0.66 cd/m²
Overall uniformity U0	Lmin/Lm : 0.63
Threshold increment	TI : 3.2 %
Longitudinal uniformity UI	Lmin/Lmax : 0.51

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

5.3 Calculation results, Komunikace prujezdni 2 var. 4

5.3.4 Pseudo colours, Road (L)

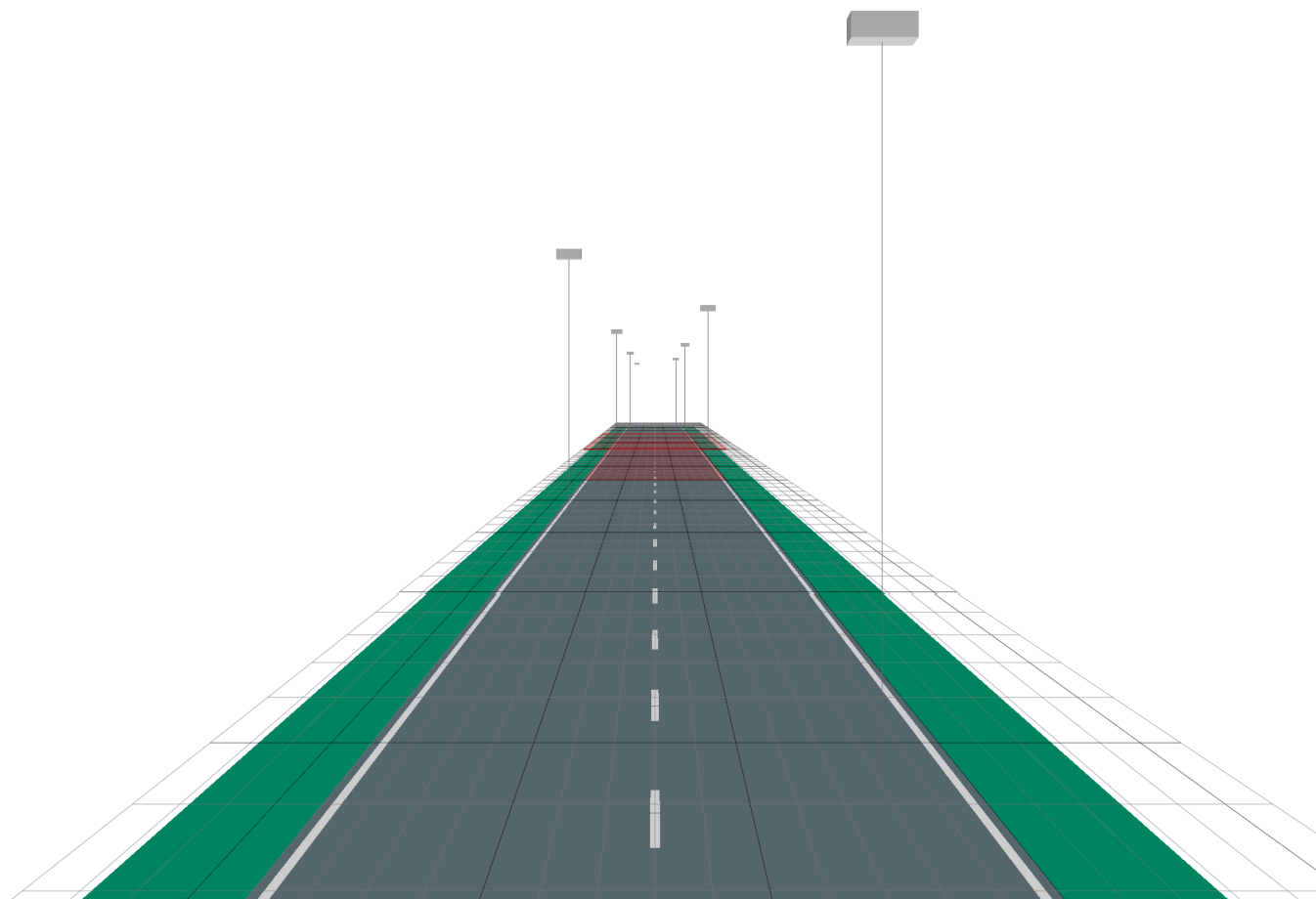


Observer location 2	: x = 90, y = 5.25, z = 1.5
Average luminance	Lav : 1.04 cd/m ²
Minimum luminance	Lmin : 0.66 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.63
Threshold increment	TI : 3.2 %
Longitudinal uniformity UI	Lmin/Llmax : 0.51

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

6.1 Description, Komunikace prujezdni 2 var. 5

6.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace pruhovazní 2
Installation :
Project number :
Date : 19.12.2007

6 Komunikace pruhovazní 2 var. 5

6.2 Summary, Komunikace pruhovazní 2 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):	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 : 0.75 cd/m²
U0 (min/average) : 0.69

Observer location 2 : x=121.50m, y=5.25m, z=1.50m
Average : 0.75 cd/m²
U0 (min/average) : 0.69

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.63
UI (B2: x = 121.50, y = 5.25, z = 1.50) : 0.63

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

6 Komunikace prujezdni 2 var. 5

6.2 Summary, Komunikace prujezdni 2 var. 5

6.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B2: y=5.25m)	: 2.80 %
SR	: 0.75

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

6 Komunikace prujezdni 2 var. 5

6.3 Calculation results, Komunikace prujezdni 2 var. 5

6.3.1 Table, Road (L)

[m]	0.68	0.84	0.86	0.82	0.73	0.65	0.55	(0.52)	0.54	0.56	0.61	0.71	0.81	0.68
6.42	0.85	0.94	[0.96]	0.91	0.83	0.72	0.59	0.56	0.6	0.64	0.66	0.75	0.86	0.84
5.25	0.79	0.88	0.93	0.88	0.82	0.77	0.65	0.65	0.7	0.75	0.73	0.77	0.81	0.76
4.08	0.69	0.76	0.81	0.77	0.79	0.82	0.74	0.74	0.81	0.86	0.82	0.8	0.78	0.68
2.92	0.59	0.64	0.68	0.7	0.77	0.87	0.84	0.84	0.93	0.93	0.9	0.82	0.72	0.61
1.75	0.54	0.56	0.59	0.64	0.75	0.83	0.7	0.71	0.88	0.9	0.85	0.75	0.66	0.57
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 : 0.75 cd/m ²
Minimum luminance	Lmin : 0.52 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.69
Threshold increment	TI : 2.8 %
Longitudinal uniformity UI	Llmin/Llmax : 0.63

Object : Studie verejného osvetlení - komunikace pruhovní 2
 Installation :
 Project number :
 Date : 19.12.2007

6.3 Calculation results, Komunikace pruhovní 2 var. 5

6.3.2 Table, Road (L)

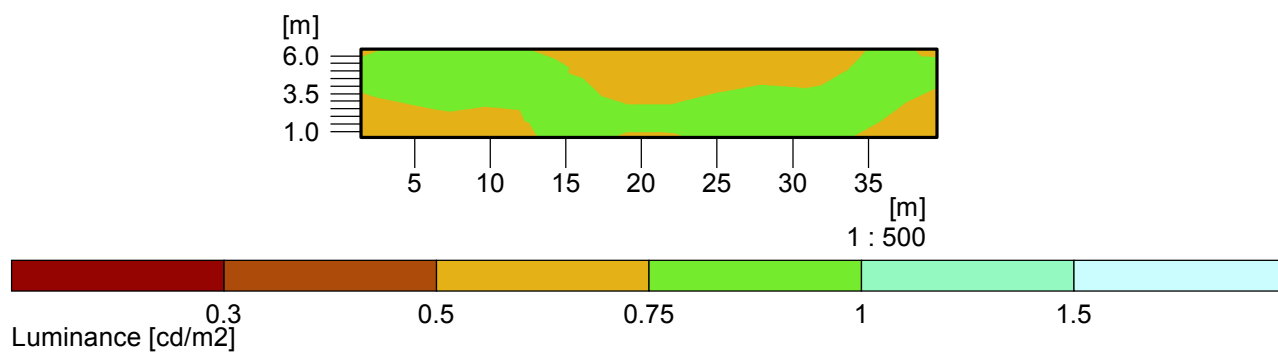
[m]	0.57	0.66	0.75	0.85	0.9	0.88	0.71	0.7	0.83	0.75	0.64	0.59	0.56	0.54
6.42	0.61	0.72	0.82	0.9	0.93	0.93	0.84	0.84	0.87	0.77	0.7	0.68	0.64	0.59
5.25	0.68	0.78	0.8	0.82	0.86	0.81	0.74	0.74	0.82	0.79	0.77	0.81	0.76	0.69
4.08	0.76	0.81	0.77	0.73	0.75	0.7	0.65	0.65	0.77	0.82	0.88	0.93	0.88	0.79
2.92	0.84	0.86	0.75	0.66	0.64	0.6	0.56	0.59	0.72	0.83	0.91	[0.96]	0.94	0.85
1.75	0.68	0.81	0.71	0.61	0.56	0.54	(0.52)	0.55	0.65	0.73	0.82	0.86	0.84	0.68
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/m ²]													

Observer location 2	: x = 122, y = 5.25, z = 1.5
Average luminance	Lav : 0.75 cd/m ²
Minimum luminance	Lmin : 0.52 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.69
Threshold increment	TI : 2.8 %
Longitudinal uniformity UI	Llmin/Llmax : 0.63

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

6.3 Calculation results, Komunikace prujezdni 2 var. 5

6.3.3 Pseudo colours, Road (L)

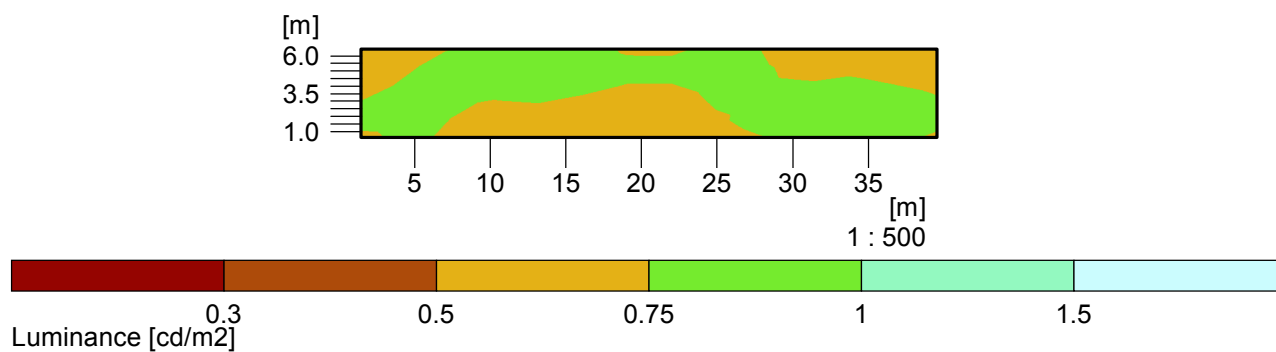


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.75 cd/m ²
Minimum luminance	Lmin : 0.52 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.69
Threshold increment	TI : 2.8 %
Longitudinal uniformity UI	Lmin/Llmax : 0.63

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

6.3 Calculation results, Komunikace prujezdni 2 var. 5

6.3.4 Pseudo colours, Road (L)



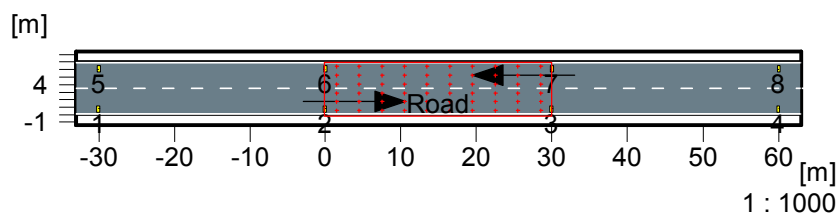
Observer location 2	: x = 122, y = 5.25, z = 1.5
Average luminance	Lav : 0.75 cd/m ²
Minimum luminance	Lmin : 0.52 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.69
Threshold increment	TI : 2.8 %
Longitudinal uniformity UI	Llmin/Llmax : 0.63

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

7 Komunikace prujezdni 2 var. 6

7.1 Description, Komunikace prujezdni 2 var. 6

7.1.1 Floor plan

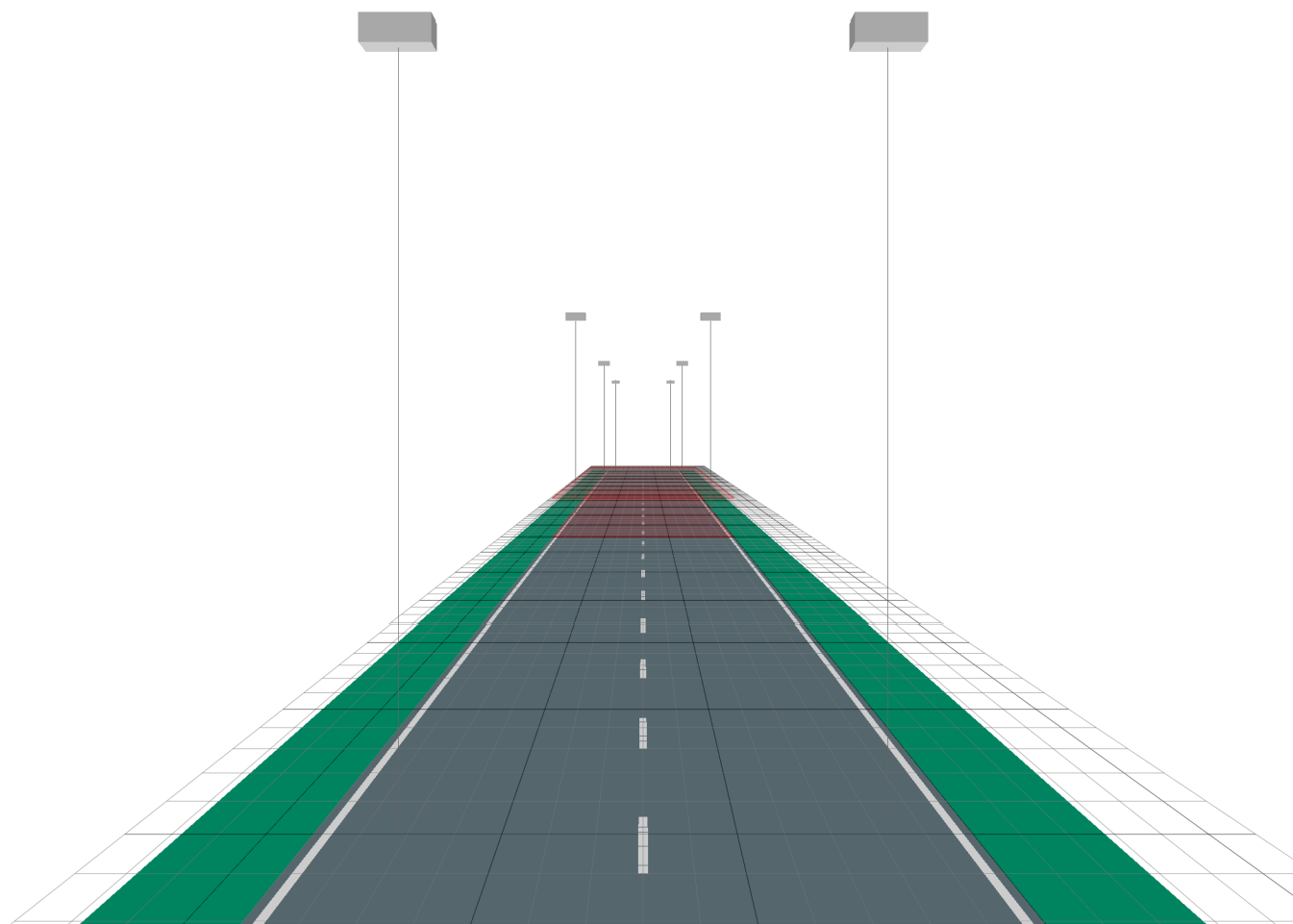


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	: 7.00 m	photometric centre height	:8.50 m
No. of lanes	: 2	Luminaire spacing	: 30.00 m
Road surface category	: R3	Luminaires - outreach	: 0.90 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

7.1 Description, Komunikace prujezdni 2 var. 6

7.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace pruhovazní 2
Installation :
Project number :
Date : 19.12.2007

7 Komunikace pruhovazní 2 var. 6

7.2 Summary, Komunikace pruhovazní 2 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): 30.00 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 : 1.02 cd/m²
U0 (min/average) : 0.59

Observer location 2 : x=90.00m, y=5.25m, z=1.50m
Average : 1.02 cd/m²
U0 (min/average) : 0.59

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.51
UI (B2: x = 90.00, y = 5.25, z = 1.50) : 0.51

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

7 Komunikace prujezdni 2 var. 6

7.2 Summary, Komunikace prujezdni 2 var. 6

7.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 3.06 %
SR	: 0.74

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

7 Komunikace prujezdni 2 var. 6

7.3 Calculation results, Komunikace prujezdni 2 var. 6

7.3.1 Table, Road (L)

[m]	0.94	0.92	0.69	(0.6)	0.69	0.92	1.08	1.18	1.26	1.03
6.42	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘
5.25	1.07	0.94	0.71	0.67	0.84	1.11	1.22	1.28	1.35	1.19
	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘
4.08	1.05	0.9	0.71	0.73	0.95	1.21	1.27	1.29	1.35	1.16
	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘
2.92	1.05	0.9	0.72	0.73	0.93	1.21	1.25	1.28	1.36	1.16
	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘
1.75	1.08	0.96	0.73	0.7	0.87	1.14	1.25	1.31	[1.37]	1.2
	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘
0.58	0.96	0.95	0.73	0.65	0.75	0.99	1.14	1.23	1.29	1.05
	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘	└─┘
	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50
	Luminance [cd/m2]									

[n]

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 1.02 cd/m ²
Minimum luminance	Lmin : 0.6 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.59
Threshold increment	TI : 3.1 %
Longitudinal uniformity UI	Llmin/Llmax : 0.51

Object : Studie verejného osvetlení - komunikace prujezdni 2
 Installation :
 Project number :
 Date : 19.12.2007

7.3 Calculation results, Komunikace prujezdni 2 var. 6

7.3.2 Table, Road (L)

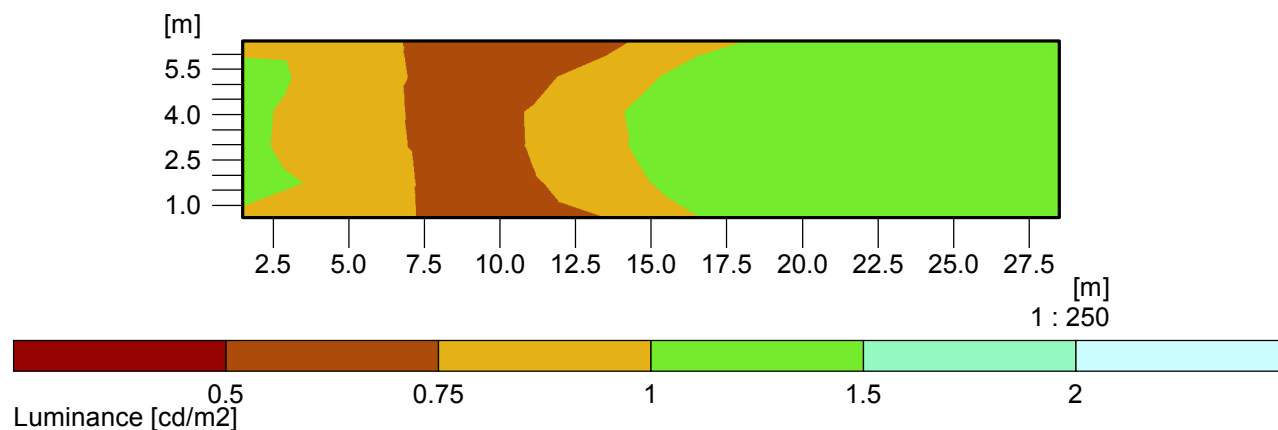
[m]	1.05	1.29	1.23	1.14	0.99	0.75	0.65	0.73	0.95	0.96
6.42	1.2	[1.37]	1.31	1.25	1.14	0.87	0.7	0.73	0.96	1.08
5.25	1.16	1.36	1.28	1.25	1.21	0.93	0.73	0.72	0.9	1.05
4.08	1.16	1.35	1.29	1.27	1.21	0.95	0.73	0.71	0.9	1.05
2.92	1.19	1.35	1.28	1.22	1.11	0.84	0.67	0.71	0.94	1.07
1.75	1.03	1.26	1.18	1.08	0.92	0.69	(0.6)	0.69	0.92	0.94
0.58	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50
	Luminance [cd/m2]									

Observer location 2	: x = 90, y = 5.25, z = 1.5
Average luminance	Lav : 1.02 cd/m ²
Minimum luminance	Lmin : 0.6 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.59
Threshold increment	TI : 3.1 %
Longitudinal uniformity UI	Llmin/Llmax : 0.51

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

7.3 Calculation results, Komunikace prujezdni 2 var. 6

7.3.3 Pseudo colours, Road (L)

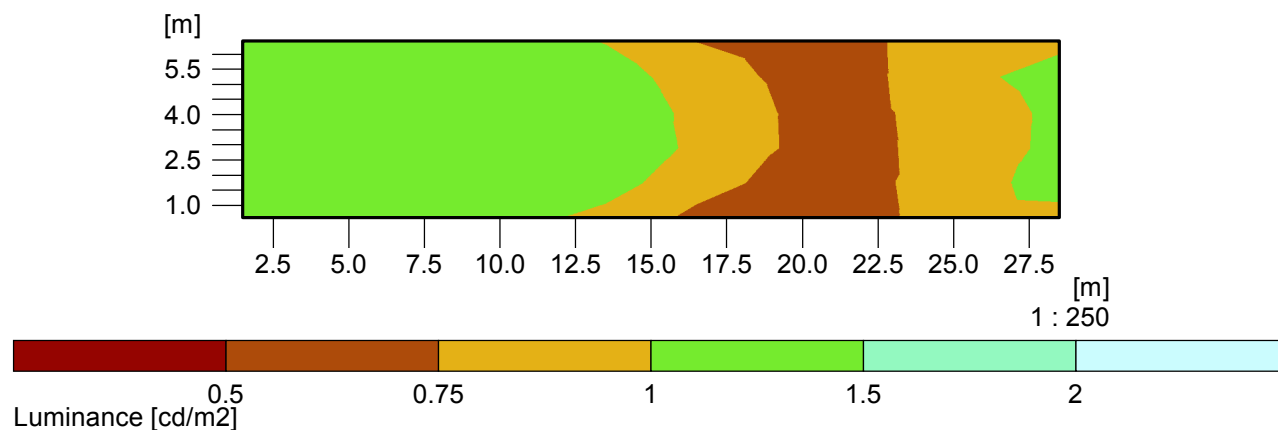


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 1.02 cd/m ²
Minimum luminance	Lmin : 0.6 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.59
Threshold increment	TI : 3.1 %
Longitudinal uniformity UI	Lmin/Lmax : 0.51

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

7.3 Calculation results, Komunikace prujezdni 2 var. 6

7.3.4 Pseudo colours, Road (L)



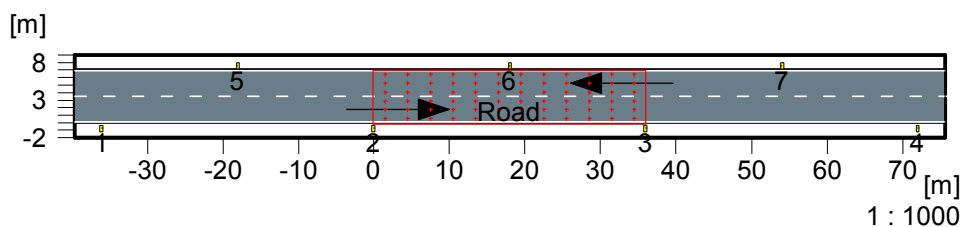
Observer location 2	: x = 90, y = 5.25, z = 1.5
Average luminance	Lav : 1.02 cd/m²
Minimum luminance	Lmin : 0.6 cd/m²
Overall uniformity U0	Lmin/Lm : 0.59
Threshold increment	TI : 3.1 %
Longitudinal uniformity UI	Lmin/Lmax : 0.51

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

8 Komunikace prujezdni 2 var. 7

8.1 Description, Komunikace prujezdni 2 var. 7

8.1.1 Floor plan

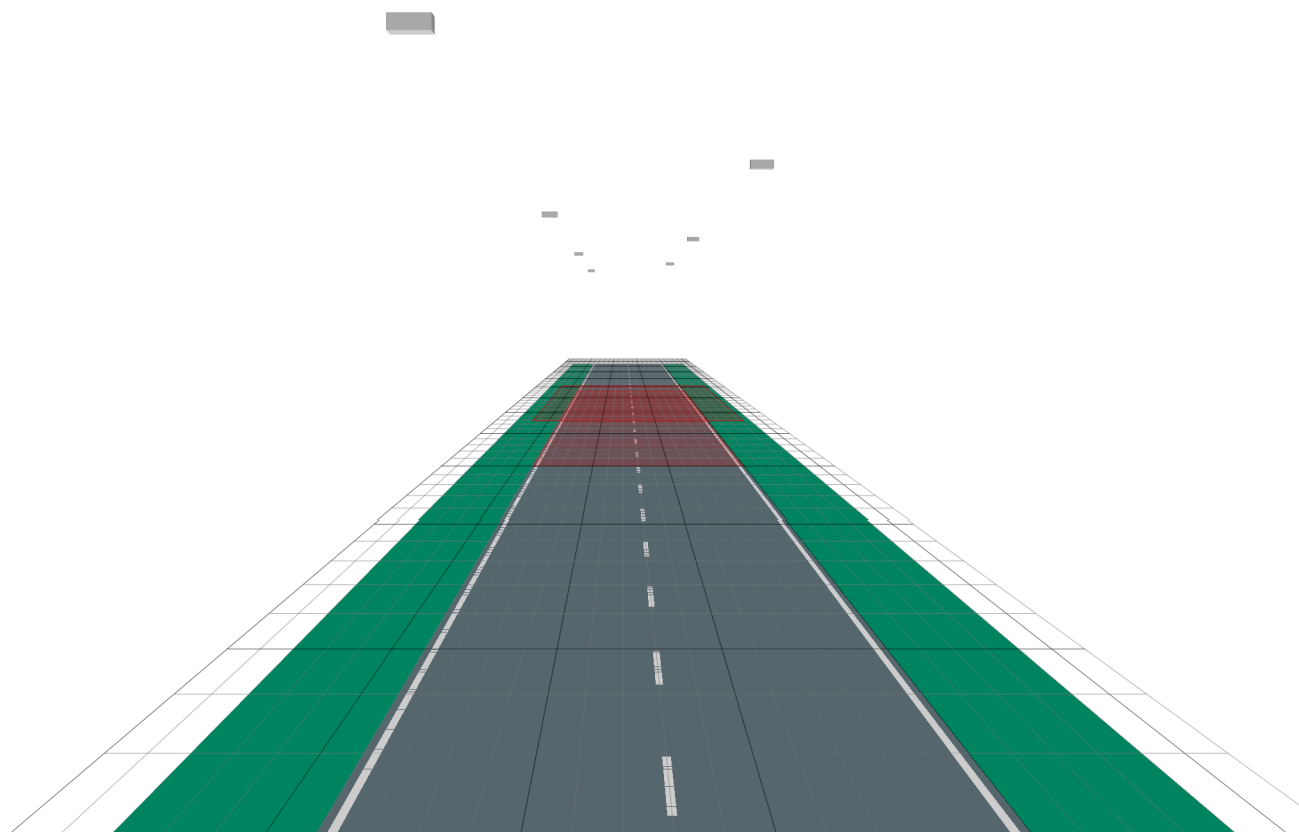


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway	: 7.00 m	photometric centre height	:10.00 m
No. of lanes	: 2	Luminaire spacing	: 36.00 m
Road surface category	: R3	Luminaires - outreach	: -0.60 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

8.1 Description, Komunikace prujezdni 2 var. 7

8.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace pruhovazní 2
Installation :
Project number :
Date : 19.12.2007

8 Komunikace pruhovazní 2 var. 7

8.2 Summary, Komunikace pruhovazní 2 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): 36.00 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 : 0.76 cd/m²
U0 (min/average) : 0.78

Observer location 2 : x=114.00m, y=5.25m, z=1.50m
Average : 0.76 cd/m²
U0 (min/average) : 0.78

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.69
UI (B2: x = 114.00, y = 5.25, z = 1.50) : 0.69

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

8 Komunikace prujezdni 2 var. 7

8.2 Summary, Komunikace prujezdni 2 var. 7

8.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 2.05 %
SR	: 0.74

Object : Studie verejného osvetlení - komunikace prujezdni 2
 Installation :
 Project number :
 Date : 19.12.2007

8 Komunikace prujezdni 2 var. 7

8.3 Calculation results, Komunikace prujezdni 2 var. 7

8.3.1 Table, Road (L)

[m]	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50	34.50
6.42	0.84	0.93	0.89	0.78	0.7	(0.59)	(0.59)	0.63	0.64	0.7	0.72	0.72
5.25	0.97	[0.99]	0.86	0.76	0.72	0.64	0.65	0.68	0.66	0.73	0.84	0.87
4.08	0.91	0.88	0.76	0.75	0.75	0.7	0.72	0.74	0.69	0.75	0.82	0.85
2.92	0.76	0.76	0.7	0.75	0.8	0.82	0.85	0.85	0.74	0.74	0.75	0.73
1.75	0.67	0.7	0.67	0.74	0.82	0.84	0.91	0.94	0.82	0.76	0.72	0.66
0.58	0.61	0.66	0.66	0.71	0.72	0.71	0.82	0.93	0.89	0.78	0.7	0.61
	Luminance [cd/m ²]											

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.59 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.78
Threshold increment	TI : 2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.69

Object : Studie verejného osvetlení - komunikace prujezdni 2
 Installation :
 Project number :
 Date : 19.12.2007

8.3 Calculation results, Komunikace prujezdni 2 var. 7

8.3.2 Table, Road (L)

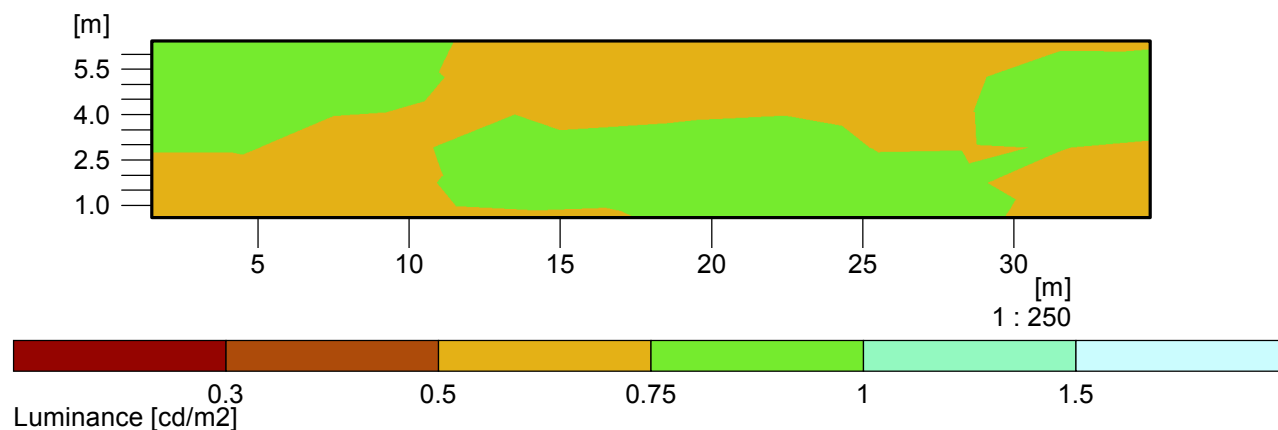
[m]												
6.42	0.61	0.7	0.78	0.89	0.93	0.82	0.71	0.72	0.71	0.66	0.66	0.61
5.25	0.66	0.72	0.76	0.82	0.94	0.91	0.84	0.82	0.74	0.67	0.7	0.67
4.08	0.73	0.75	0.74	0.74	0.85	0.85	0.82	0.8	0.75	0.7	0.76	0.76
2.92	0.85	0.82	0.75	0.69	0.74	0.72	0.7	0.75	0.75	0.76	0.88	0.91
1.75	0.87	0.84	0.73	0.66	0.68	0.65	0.64	0.72	0.76	0.86	[0.99]	0.97
0.58	0.72	0.72	0.7	0.64	0.63	(0.59)	(0.59)	0.7	0.78	0.89	0.93	0.84
	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50	34.50
	Luminance [cd/m2]											

Observer location 2	: x = 114, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.59 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.78
Threshold increment	TI : 2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.69

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

8.3 Calculation results, Komunikace prujezdni 2 var. 7

8.3.3 Pseudo colours, Road (L)

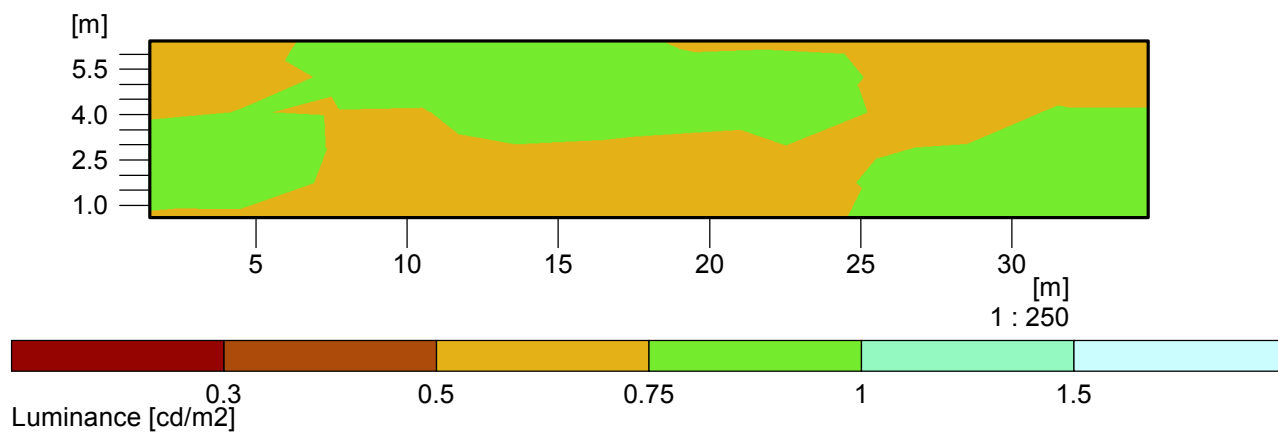


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.59 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.78
Threshold increment	TI : 2 %
Longitudinal uniformity UI	Lmin/Llmax : 0.69

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

8.3 Calculation results, Komunikace prujezdni 2 var. 7

8.3.4 Pseudo colours, Road (L)



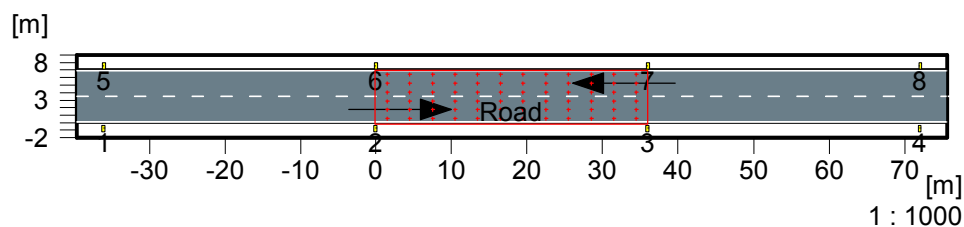
Observer location 2	: x = 114, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.59 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.78
Threshold increment	TI : 2 %
Longitudinal uniformity UI	Lmin/Lmax : 0.69

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

9 Komunikace prujezdni 2 var. 8

9.1 Description, Komunikace prujezdni 2 var. 8

9.1.1 Floor plan

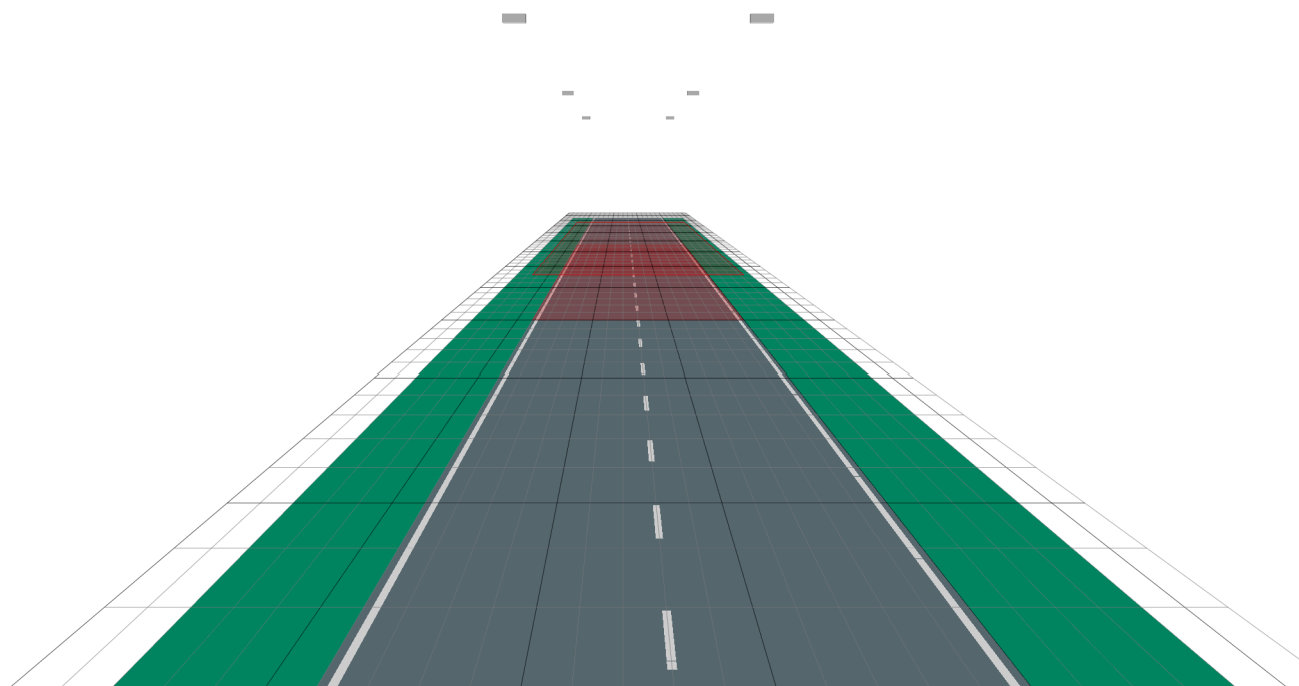


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	: 7.00 m	photometric centre height	:10.00 m
No. of lanes	: 2	Luminaire spacing	: 36.00 m
Road surface category	: R3	Luminaires - outreach	: -0.60 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

9.1 Description, Komunikace prujezdni 2 var. 8

9.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace pruhovazní 2
Installation :
Project number :
Date : 19.12.2007

9 Komunikace pruhovazní 2 var. 8

9.2 Summary, Komunikace pruhovazní 2 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):	36.00 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 : 0.76 cd/m²
U0 (min/average) : 0.67

Observer location 2 : x=96.00m, y=5.25m, z=1.50m
Average : 0.76 cd/m²
U0 (min/average) : 0.67

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.50
UI (B2: x = 96.00, y = 5.25, z = 1.50) : 0.50

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

9 Komunikace prujezdni 2 var. 8

9.2 Summary, Komunikace prujezdni 2 var. 8

9.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 2.99 %
SR	: 0.74

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

9 Komunikace prujezdni 2 var. 8

9.3 Calculation results, Komunikace prujezdni 2 var. 8

9.3.1 Table, Road (L)

[m]	0.66	0.7	0.61	0.52	(0.51)	0.6	0.76	0.86	0.92	0.95	0.9	0.71
6.42	0.82	0.79	0.6	0.52	0.53	0.64	0.79	0.87	0.91	0.97	1.02	0.88
5.25	0.86	0.77	0.58	0.52	0.54	0.62	0.76	0.84	0.86	0.97	[1.03]	0.93
4.08	0.85	0.77	0.58	(0.51)	0.53	0.61	0.76	0.84	0.86	0.98	[1.03]	0.93
2.92	0.82	0.79	0.6	(0.51)	0.52	0.62	0.76	0.86	0.89	0.98	1.02	0.88
1.75	0.67	0.71	0.62	0.53	0.52	0.61	0.77	0.88	0.93	0.96	0.91	0.71
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
	Luminance [cd/m ²]											

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.51 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.67
Threshold increment	TI : 3 %
Longitudinal uniformity UI	Llmin/Llmax : 0.5

Object : Studie verejného osvetlení - komunikace prujezdni 2
 Installation :
 Project number :
 Date : 19.12.2007

9.3 Calculation results, Komunikace prujezdni 2 var. 8

9.3.2 Table, Road (L)

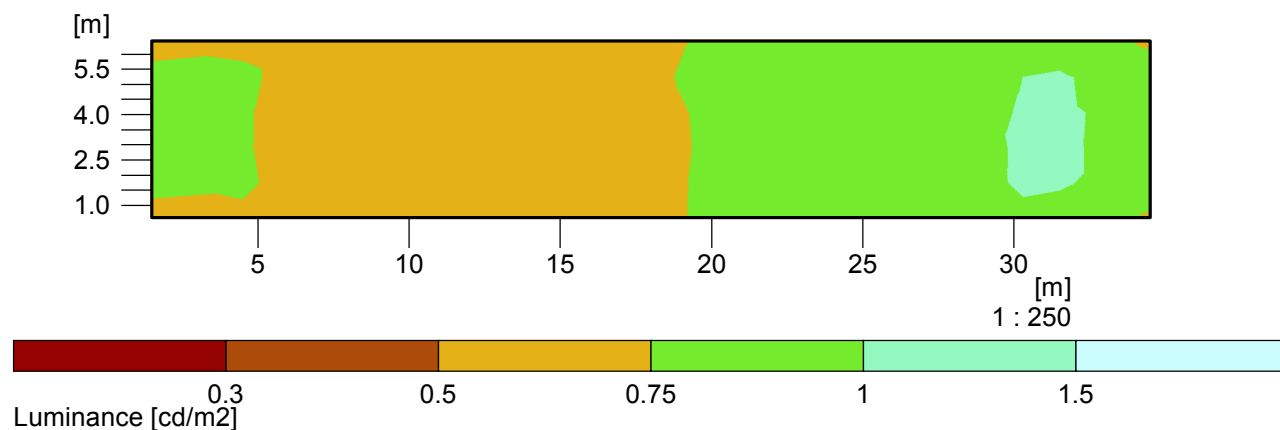
[m]	1.50	4.50	7.50	10.50	13.50	16.50	19.50	22.50	25.50	28.50	31.50	34.50
6.42	0.71	0.91	0.96	0.93	0.88	0.77	0.61	0.52	0.53	0.62	0.71	0.67
5.25	0.88	1.02	0.98	0.89	0.86	0.76	0.62	0.52	(0.51)	0.6	0.79	0.82
4.08	0.93	[1.03]	0.98	0.86	0.84	0.76	0.61	0.53	(0.51)	0.58	0.77	0.85
2.92	0.93	[1.03]	0.97	0.86	0.84	0.76	0.62	0.54	0.52	0.58	0.77	0.86
1.75	0.88	1.02	0.97	0.91	0.87	0.79	0.64	0.53	0.52	0.6	0.79	0.82
0.58	0.71	0.9	0.95	0.92	0.86	0.76	0.6	(0.51)	0.52	0.61	0.7	0.66
	Luminance [cd/m ²]											

Observer location 2	: x = 96, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.51 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.67
Threshold increment	TI : 3 %
Longitudinal uniformity UI	Llmin/Llmax : 0.5

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

9.3 Calculation results, Komunikace prujezdni 2 var. 8

9.3.3 Pseudo colours, Road (L)

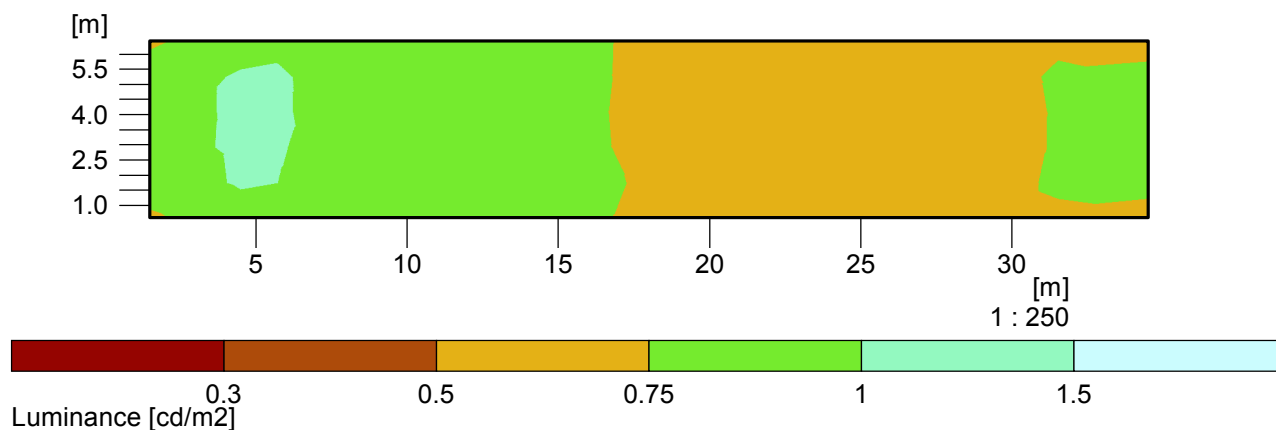


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.51 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.67
Threshold increment	TI : 3 %
Longitudinal uniformity UI	Lmin/Llmax : 0.5

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

9.3 Calculation results, Komunikace prujezdni 2 var. 8

9.3.4 Pseudo colours, Road (L)



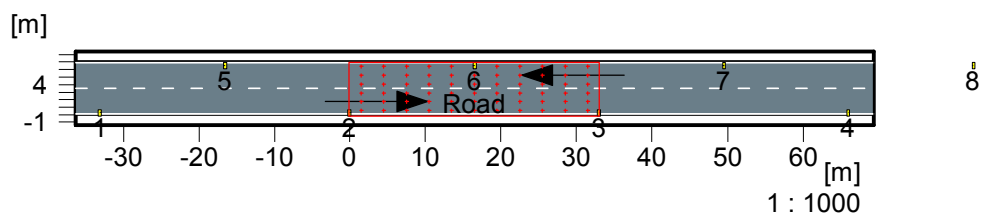
Observer location 2	: x = 96, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.51 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.67
Threshold increment	TI : 3 %
Longitudinal uniformity UI	Lmin/Lmax : 0.5

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

10 Komunikace prujezdni 2 var. 9

10.1 Description, Komunikace prujezdni 2 var. 9

10.1.1 Floor plan

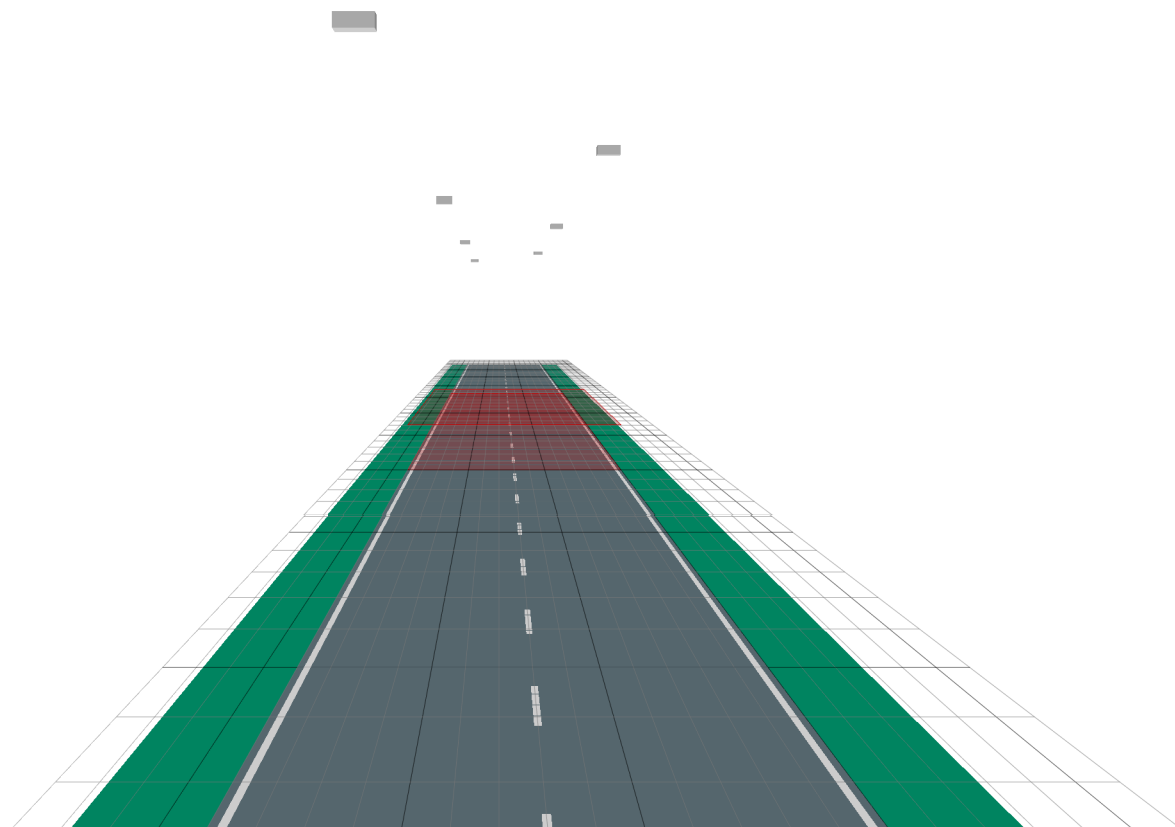


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway	: 7.00 m	photometric centre height	:10.50 m
No. of lanes	: 2	Luminaire spacing	: 33.00 m
Road surface category	: R3	Luminaires - outreach	: 0.40 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

10.1 Description, Komunikace prujezdni 2 var. 9

10.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace pruhovazní 2
Installation :
Project number :
Date : 19.12.2007

10 Komunikace pruhovazní 2 var. 9

10.2 Summary, Komunikace pruhovazní 2 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): 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 : 0.76 cd/m²
U0 (min/average) : 0.78

Observer location 2 : x=109.50m, y=5.25m, z=1.50m
Average : 0.76 cd/m²
U0 (min/average) : 0.78

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.73
UI (B2: x = 109.50, y = 5.25, z = 1.50) : 0.73

Object : Studie verejného osvetlení - komunikace pruhovazní 2
Installation :
Project number :
Date : 19.12.2007

10 Komunikace pruhovazní 2 var. 9

10.2 Summary, Komunikace pruhovazní 2 var. 9

10.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 1.27 %
SR	: 0.86

Object : Studie verejného osvetlení - komunikace pruhovní 2
Installation :
Project number :
Date : 19.12.2007

10 Komunikace pruhovní 2 var. 9

10.3 Calculation results, Komunikace pruhovní 2 var. 9

10.3.1 Table, Road (L)

[m]	0.9	0.87	0.76	0.66	0.62	(0.59)	0.6	0.62	0.67	0.78	0.87
6.42											
5.25	[0.95]	0.9	0.78	0.71	0.66	0.64	0.67	0.67	0.72	0.82	0.93
4.08	0.88	0.84	0.75	0.74	0.75	0.72	0.75	0.72	0.75	0.8	0.85
2.92	0.78	0.75	0.72	0.76	0.81	0.79	0.84	0.77	0.76	0.76	0.76
1.75	0.69	0.69	0.71	0.77	0.88	0.87	0.93	0.84	0.75	0.71	0.68
0.58	0.63	0.64	0.68	0.74	0.84	0.88	0.91	0.86	0.73	0.67	0.63
	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/m ²]										

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.59 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.78
Threshold increment	TI : 1.3 %
Longitudinal uniformity UI	Llmin/Llmax : 0.73

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

10.3 Calculation results, Komunikace prujezdni 2 var. 9

10.3.2 Table, Road (L)

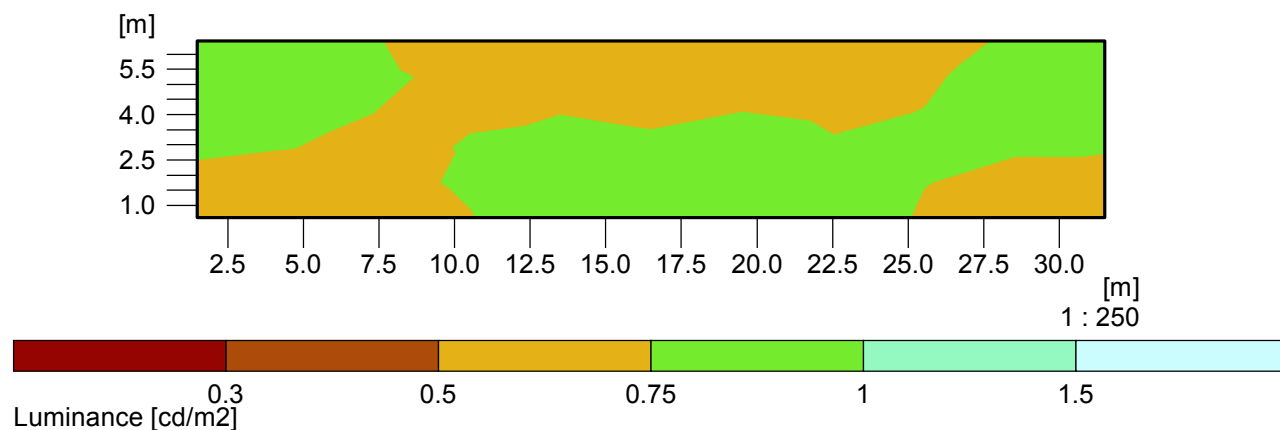
[m]	0.63	0.67	0.73	0.86	0.91	0.88	0.84	0.74	0.68	0.64	0.63
6.42	0.63	0.67	0.73	0.86	0.91	0.88	0.84	0.74	0.68	0.64	0.63
5.25	0.68	0.71	0.75	0.84	0.93	0.87	0.88	0.77	0.71	0.69	0.69
4.08	0.76	0.76	0.76	0.77	0.84	0.79	0.81	0.76	0.72	0.75	0.78
2.92	0.85	0.8	0.75	0.72	0.75	0.72	0.75	0.74	0.75	0.84	0.88
1.75	0.93	0.82	0.72	0.67	0.67	0.64	0.66	0.71	0.78	0.9	[0.95]
0.58	0.87	0.78	0.67	0.62	0.6	(0.59)	0.62	0.66	0.76	0.87	0.9
	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 = 110, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.59 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.78
Threshold increment	TI : 1.3 %
Longitudinal uniformity UI	Llmin/Llmax : 0.73

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

10.3 Calculation results, Komunikace prujezdni 2 var. 9

10.3.3 Pseudo colours, Road (L)

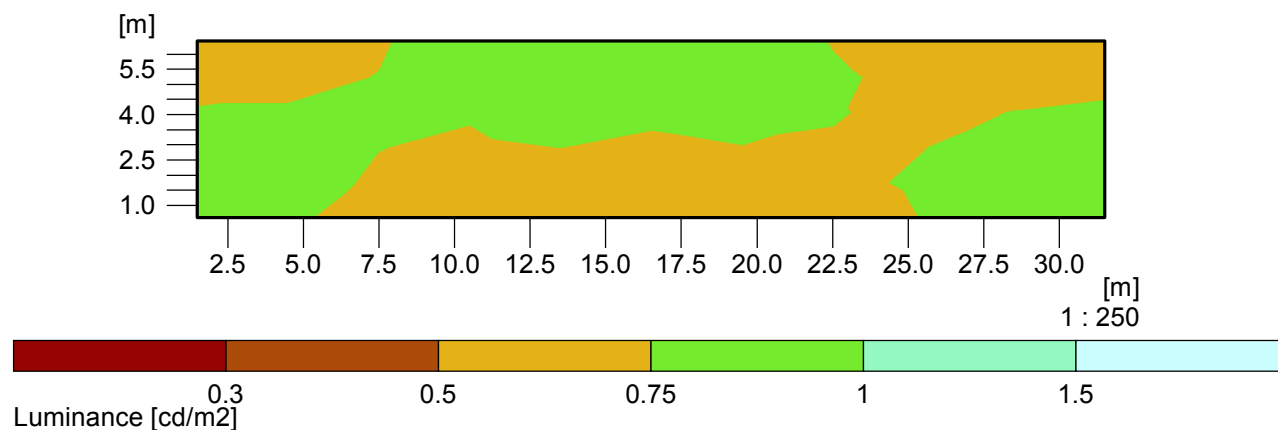


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.59 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.78
Threshold increment	TI : 1.3 %
Longitudinal uniformity UI	Lmin/Llmax : 0.73

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

10.3 Calculation results, Komunikace prujezdni 2 var. 9

10.3.4 Pseudo colours, Road (L)



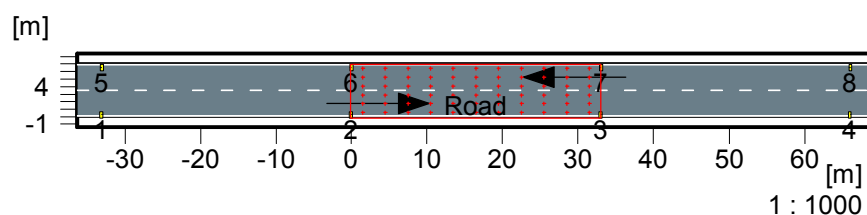
Observer location 2	: x = 110, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m²
Minimum luminance	Lmin : 0.59 cd/m²
Overall uniformity U0	Lmin/Lm : 0.78
Threshold increment	TI : 1.3 %
Longitudinal uniformity UI	Lmin/Llmax : 0.73

Object : Studie verejného osvetlení - komunikace pruhzdni 2
Installation :
Project number :
Date : 19.12.2007

11 Komunikace pruhzdni 2 var. 10

11.1 Description, Komunikace pruhzdni 2 var. 10

11.1.1 Floor plan

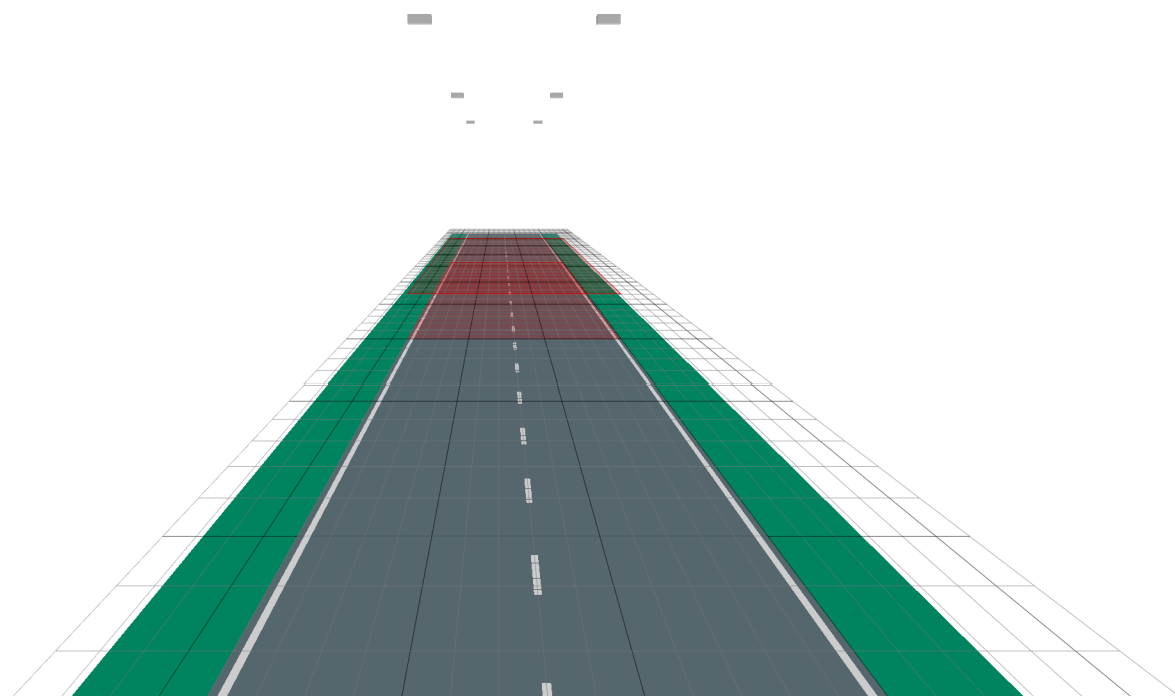


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	: 7.00 m	photometric centre height	:10.50 m
No. of lanes	: 2	Luminaire spacing	: 33.00 m
Road surface category	: R3	Luminaires - outreach	: 0.40 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

11.1 Description, Komunikace prujezdni 2 var. 10

11.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

11 Komunikace prujezdni 2 var. 10

11.2 Summary, Komunikace prujezdni 2 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): 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 : 0.76 cd/m²
U0 (min/average) : 0.67

Observer location 2 : x=93.00m, y=5.25m, z=1.50m
Average : 0.76 cd/m²
U0 (min/average) : 0.67

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.64
UI (B2: x = 93.00, y = 5.25, z = 1.50) : 0.64

Object : Studie verejného osvetlení - komunikace pruhovazní 2
Installation :
Project number :
Date : 19.12.2007

11 Komunikace pruhovazní 2 var. 10

11.2 Summary, Komunikace pruhovazní 2 var. 10

11.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 2.25 %
SR	: 0.86

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

11 Komunikace prujezdni 2 var. 10

11.3 Calculation results, Komunikace prujezdni 2 var. 10

11.3.1 Table, Road (L)

[m]	0.71	0.69	0.57	(0.51)	0.61	0.74	0.78	0.81	0.84	0.87	0.77
6.42	└	└	└	└	└	└	└	└	└	└	└
5.25	0.72	0.7	0.59	0.57	0.7	0.85	0.87	0.87	0.89	0.89	0.78
	└	└	└	└	└	└	└	└	└	└	└
4.08	0.7	0.69	0.59	0.61	0.75	0.9	0.9	0.87	[0.91]	0.88	0.75
	└	└	└	└	└	└	└	└	└	└	└
2.92	0.7	0.69	0.6	0.61	0.74	0.9	0.89	0.86	[0.91]	0.88	0.75
	└	└	└	└	└	└	└	└	└	└	└
1.75	0.73	0.71	0.6	0.58	0.71	0.86	0.88	0.88	[0.91]	0.89	0.78
	└	└	└	└	└	└	└	└	└	└	└
0.58	0.73	0.72	0.6	0.54	0.65	0.78	0.82	0.83	0.87	0.89	0.78
	└	└	└	└	└	└	└	└	└	└	└
	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 : 0.76 cd/m ²
Minimum luminance	Lmin : 0.51 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.67
Threshold increment	TI : 2.2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.64

Object : Studie verejného osvetlení - komunikace pruhovní 2
Installation :
Project number :
Date : 19.12.2007

11.3 Calculation results, Komunikace pruhovní 2 var. 10

11.3.2 Table, Road (L)

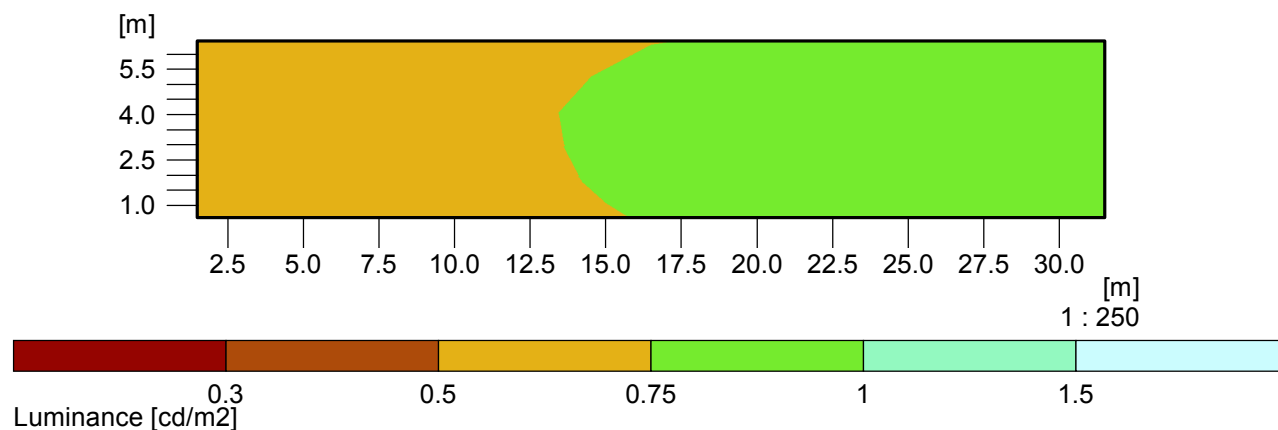
[m]	0.78	0.89	0.87	0.83	0.82	0.78	0.65	0.54	0.6	0.72	0.73
6.42	0.78	0.89	0.87	0.83	0.82	0.78	0.65	0.54	0.6	0.72	0.73
5.25	0.78	0.89	[0.91]	0.88	0.88	0.86	0.71	0.58	0.6	0.71	0.73
4.08	0.75	0.88	[0.91]	0.86	0.89	0.9	0.74	0.61	0.6	0.69	0.7
2.92	0.75	0.88	[0.91]	0.87	0.9	0.9	0.75	0.61	0.59	0.69	0.7
1.75	0.78	0.89	0.89	0.87	0.87	0.85	0.7	0.57	0.59	0.7	0.72
0.58	0.77	0.87	0.84	0.81	0.78	0.74	0.61	(0.51)	0.57	0.69	0.71
	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/m ²]										

Observer location 2	: x = 93, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.51 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.67
Threshold increment	TI : 2.2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.64

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

11.3 Calculation results, Komunikace prujezdni 2 var. 10

11.3.3 Pseudo colours, Road (L)

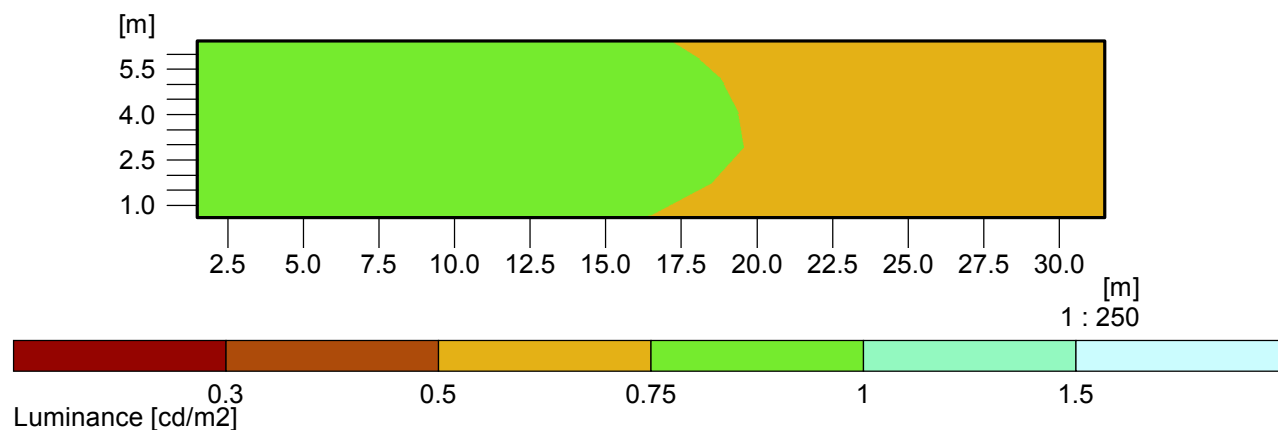


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.51 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.67
Threshold increment	TI : 2.2 %
Longitudinal uniformity UI	Lmin/Llmax : 0.64

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

11.3 Calculation results, Komunikace prujezdni 2 var. 10

11.3.4 Pseudo colours, Road (L)



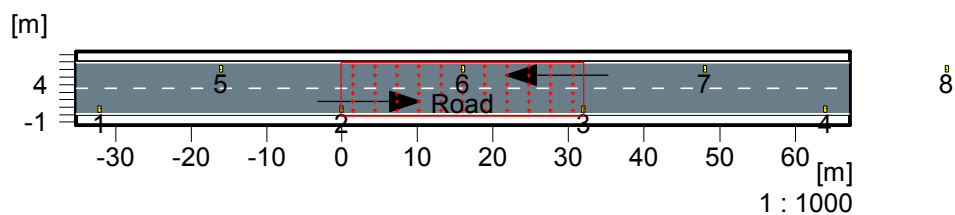
Observer location 2	: x = 93, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.51 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.67
Threshold increment	TI : 2.2 %
Longitudinal uniformity UI	Lmin/Llmax : 0.64

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

12 Komunikace prujezdni 2 var. 11

12.1 Description, Komunikace prujezdni 2 var. 11

12.1.1 Floor plan

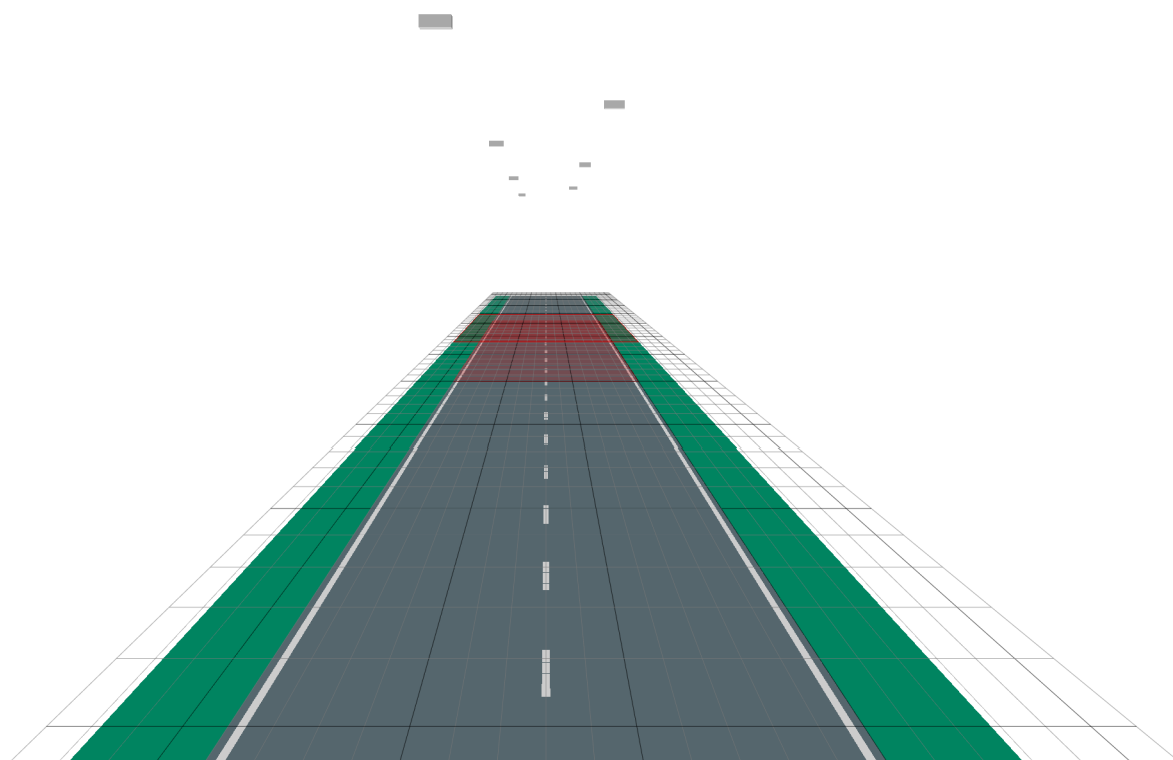


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Staggered layout
Width of roadway	: 7.00 m	photometric centre height	:10.50 m
No. of lanes	: 2	Luminaire spacing	: 32.00 m
Road surface category	: R3	Luminaires - outreach	: 0.90 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

12.1 Description, Komunikace prujezdni 2 var. 11

12.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace pruhovazní 2
Installation :
Project number :
Date : 19.12.2007

12 Komunikace pruhovazní 2 var. 11

12.2 Summary, Komunikace pruhovazní 2 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):	32.00 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 : 0.76 cd/m²
U0 (min/average) : 0.8

Observer location 2 : x=108.00m, y=5.25m, z=1.50m
Average : 0.76 cd/m²
U0 (min/average) : 0.8

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.77
UI (B2: x = 108.00, y = 5.25, z = 1.50) : 0.77

Object : Studie verejného osvetlení - komunikace pruhovní 2
Installation :
Project number :
Date : 19.12.2007

12 Komunikace pruhovní 2 var. 11

12.2 Summary, Komunikace pruhovní 2 var. 11

12.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 1.19 %
SR	: 0.91

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

12 Komunikace prujezdni 2 var. 11

12.3 Calculation results, Komunikace prujezdni 2 var. 11

12.3.1 Table, Road (L)

[m]	0.87	0.85	0.73	0.65	0.62	(0.61)	(0.61)	0.62	0.67	0.78	0.85
6.42	└	└	└	└	└	└	└	└	└	└	└
5.25	0.91	0.86	0.76	0.7	0.68	0.68	0.68	0.69	0.73	0.81	0.9
	└	└	└	└	└	└	└	└	└	└	└
4.08	0.88	0.85	0.76	0.75	0.76	0.74	0.76	0.74	0.76	0.83	0.86
	└	└	└	└	└	└	└	└	└	└	└
2.92	0.8	0.77	0.74	0.77	0.82	0.8	0.85	0.79	0.77	0.78	0.79
	└	└	└	└	└	└	└	└	└	└	└
1.75	0.71	0.71	0.72	0.78	0.88	0.86	[0.92]	0.83	0.76	0.73	0.71
	└	└	└	└	└	└	└	└	└	└	└
0.58	0.65	0.64	0.68	0.75	0.85	0.86	0.91	0.83	0.72	0.66	0.65
	└	└	└	└	└	└	└	└	└	└	└
	1.45	4.36	7.27	10.18	13.09	16.00	18.91	21.82	24.73	27.64	30.55 [m]
	Luminance [cd/m2]										

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.61 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.8
Threshold increment	TI : 1.2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.77

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

12.3 Calculation results, Komunikace prujezdni 2 var. 11

12.3.2 Table, Road (L)

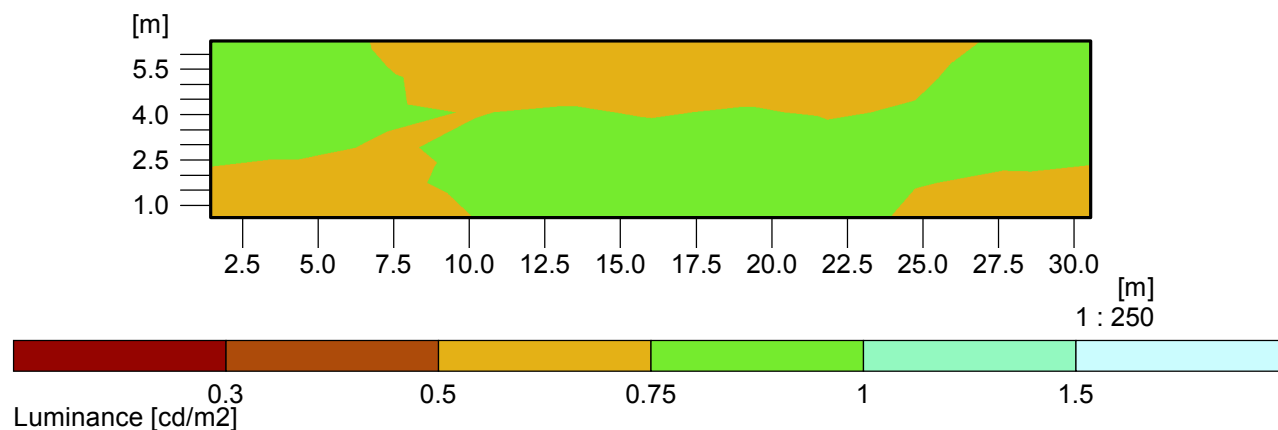
[m]	0.65	0.66	0.72	0.83	0.91	0.86	0.85	0.75	0.68	0.64	0.65
6.42	0.71	0.73	0.76	0.83	[0.92]	0.86	0.88	0.78	0.72	0.71	0.71
5.25	0.79	0.78	0.77	0.79	0.85	0.8	0.82	0.77	0.74	0.77	0.8
4.08	0.86	0.83	0.76	0.74	0.76	0.74	0.76	0.75	0.76	0.85	0.88
2.92	0.9	0.81	0.73	0.69	0.68	0.68	0.68	0.7	0.76	0.86	0.91
1.75	0.85	0.78	0.67	0.62	(0.61)	(0.61)	0.62	0.65	0.73	0.85	0.87
0.58	1.45	4.36	7.27	10.18	13.09	16.00	18.91	21.82	24.73	27.64	30.55
	Luminance [cd/m2]										

Observer location 2	: x = 108, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.61 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.8
Threshold increment	TI : 1.2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.77

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

12.3 Calculation results, Komunikace prujezdni 2 var. 11

12.3.3 Pseudo colours, Road (L)

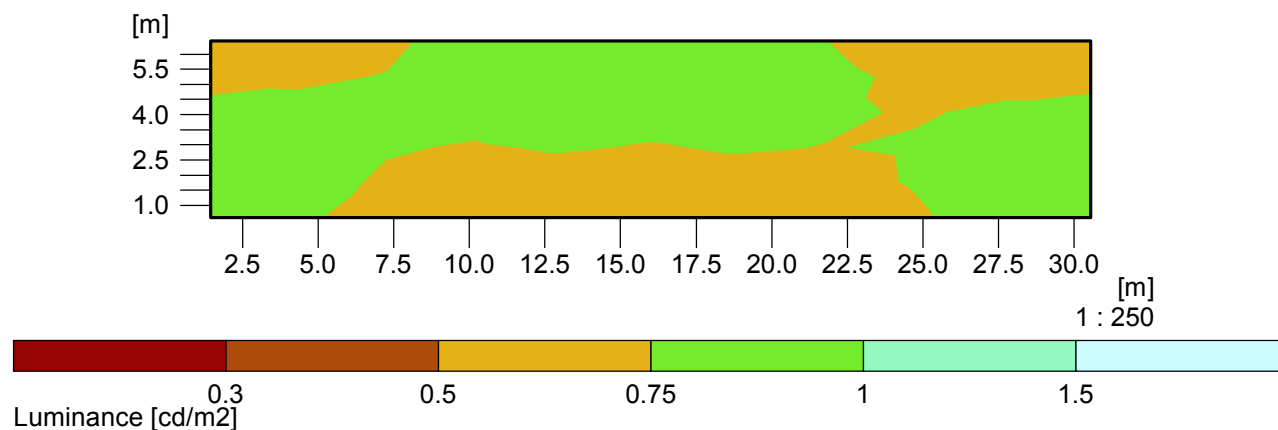


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.61 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.8
Threshold increment	TI : 1.2 %
Longitudinal uniformity UI	Lmin/Llmax : 0.77

Object : Studie verejného osvetlení - komunikace pruhzdni 2
Installation :
Project number :
Date : 19.12.2007

12.3 Calculation results, Komunikace pruhzdni 2 var. 11

12.3.4 Pseudo colours, Road (L)



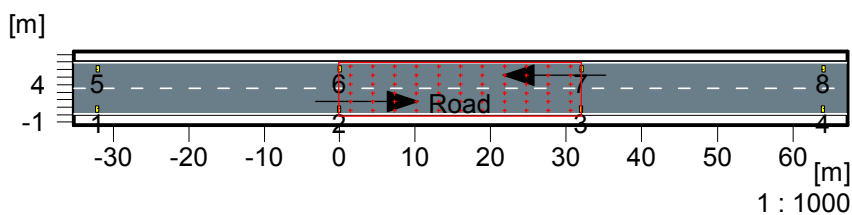
Observer location 2	: x = 108, y = 5.25, z = 1.5
Average luminance	Lav : 0.76 cd/m ²
Minimum luminance	Lmin : 0.61 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.8
Threshold increment	TI : 1.2 %
Longitudinal uniformity UI	Lmin/Llmax : 0.77

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

13 Komunikace prujezdni 2 var. 12

13.1 Description, Komunikace prujezdni 2 var. 12

13.1.1 Floor plan

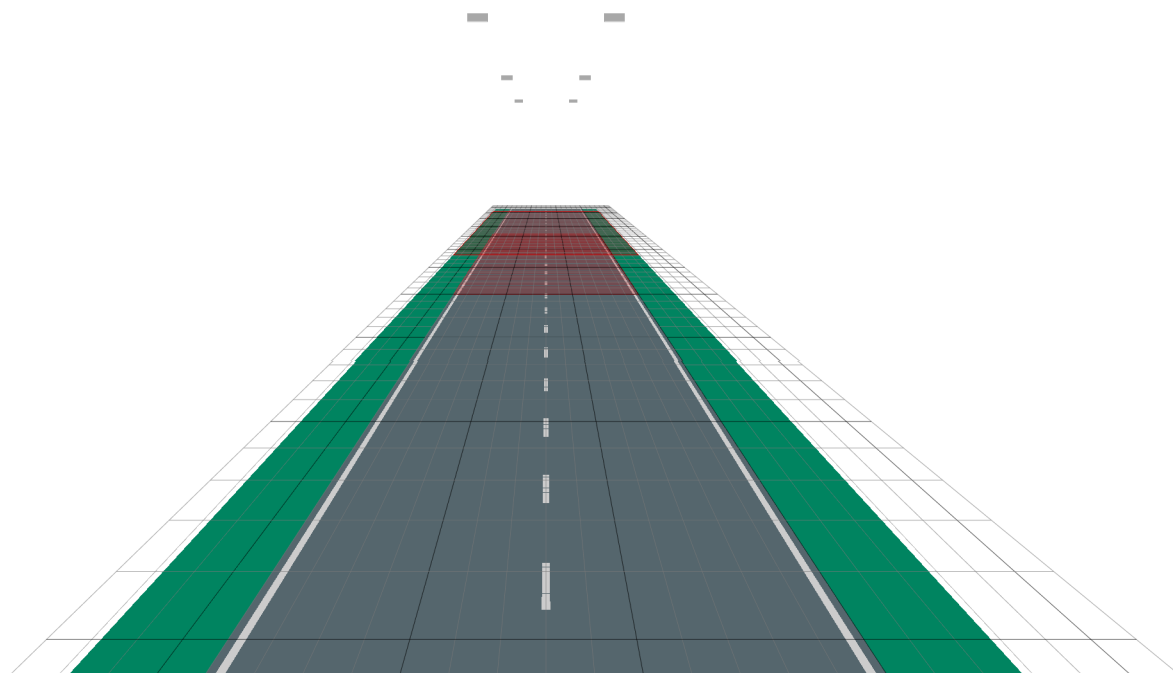


Road		Luminaire type	:CIVIC 2 150W HID 240V CL1 EFL + HIT-CE
Road layout	: without central reservation	Luminaire placing	: Both sides
Width of roadway	: 7.00 m	photometric centre height	:10.50 m
No. of lanes	: 2	Luminaire spacing	: 32.00 m
Road surface category	: R3	Luminaires - outreach	: 0.90 m
q0	: 0.07	Inclination	: 0.00°

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

13.1 Description, Komunikace prujezdni 2 var. 12

13.1.2 3D view, View from the left



Object : Studie verejného osvetlení - komunikace pruhovazní 2
Installation :
Project number :
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13 Komunikace pruhovazní 2 var. 12

13.2 Summary, Komunikace pruhovazní 2 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):	32.00 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 : 0.77 cd/m²
U0 (min/average) : 0.68

Observer location 2 : x=92.00m, y=5.25m, z=1.50m
Average : 0.77 cd/m²
U0 (min/average) : 0.68

Longitudinal uniformity

UI (B1: x = -60.00, y = 1.75, z = 1.50) : 0.68
UI (B2: x = 92.00, y = 5.25, z = 1.50) : 0.68

Object : Studie verejného osvetlení - komunikace pruhovazní 2
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13 Komunikace pruhovazní 2 var. 12

13.2 Summary, Komunikace pruhovazní 2 var. 12

13.2.1 Result overview, Road

Glare/ surrounding brightness

TI (B1: y=1.75m)	: 2.04 %
SR	: 0.91

Object : Studie verejného osvetlení - komunikace prujezdni 2
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13 Komunikace prujezdni 2 var. 12

13.3 Calculation results, Komunikace prujezdni 2 var. 12

13.3.1 Table, Road (L)

[m]	0.71	0.68	0.57	(0.52)	0.62	0.74	0.78	0.79	0.82	0.85	0.76
6.42	└	└	└	└	└	└	└	└	└	└	└
5.25	0.69	0.67	0.59	0.6	0.74	0.88	0.87	0.87	0.89	0.85	0.75
	└	└	└	└	└	└	└	└	└	└	└
4.08	0.68	0.69	0.61	0.64	0.81	[0.96]	0.93	0.91	0.91	0.86	0.72
	└	└	└	└	└	└	└	└	└	└	└
2.92	0.68	0.69	0.62	0.65	0.81	[0.96]	0.93	0.89	0.91	0.86	0.72
	└	└	└	└	└	└	└	└	└	└	└
1.75	0.71	0.69	0.62	0.62	0.77	0.91	0.9	0.88	0.9	0.86	0.76
	└	└	└	└	└	└	└	└	└	└	└
0.58	0.73	0.71	0.6	0.56	0.67	0.79	0.82	0.82	0.85	0.87	0.78
	└	└	└	└	└	└	└	└	└	└	└
	1.45	4.36	7.27	10.18	13.09	16.00	18.91	21.82	24.73	27.64	30.55 [m]
	Luminance [cd/m2]										

Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.77 cd/m ²
Minimum luminance	Lmin : 0.52 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.68
Threshold increment	TI : 2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.68

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

13.3 Calculation results, Komunikace prujezdni 2 var. 12

13.3.2 Table, Road (L)

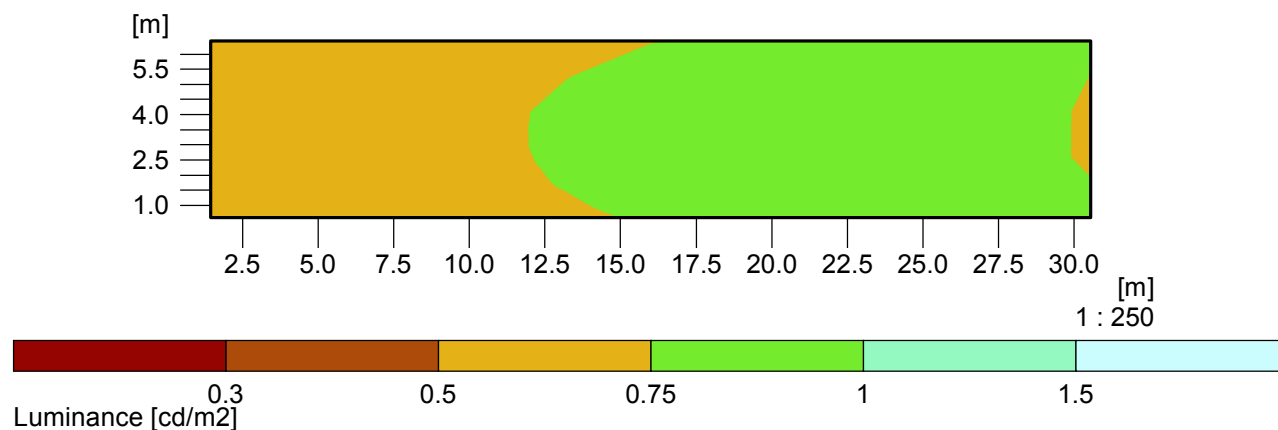
[m]	0.78	0.87	0.85	0.82	0.82	0.79	0.67	0.56	0.6	0.71	0.73
6.42	└	└	└	└	└	└	└	└	└	└	└
5.25	0.76	0.86	0.9	0.88	0.9	0.91	0.77	0.62	0.62	0.69	0.71
	└	└	└	└	└	└	└	└	└	└	└
4.08	0.72	0.86	0.91	0.89	0.93	[0.96]	0.81	0.65	0.62	0.69	0.68
	└	└	└	└	└	└	└	└	└	└	└
2.92	0.72	0.86	0.91	0.91	0.93	[0.96]	0.81	0.64	0.61	0.69	0.68
	└	└	└	└	└	└	└	└	└	└	└
1.75	0.75	0.85	0.89	0.87	0.87	0.88	0.74	0.6	0.59	0.67	0.69
	└	└	└	└	└	└	└	└	└	└	└
0.58	0.76	0.85	0.82	0.79	0.78	0.74	0.62	(0.52)	0.57	0.68	0.71
	└	└	└	└	└	└	└	└	└	└	└
	1.45	4.36	7.27	10.18	13.09	16.00	18.91	21.82	24.73	27.64	30.55 [m]
	Luminance [cd/m2]										

Observer location 2	: x = 92, y = 5.25, z = 1.5
Average luminance	Lav : 0.77 cd/m ²
Minimum luminance	Lmin : 0.52 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.68
Threshold increment	TI : 2 %
Longitudinal uniformity UI	Llmin/Llmax : 0.68

Object : Studie verejného osvetlení - komunikace prujezdni 2
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13.3 Calculation results, Komunikace prujezdni 2 var. 12

13.3.3 Pseudo colours, Road (L)

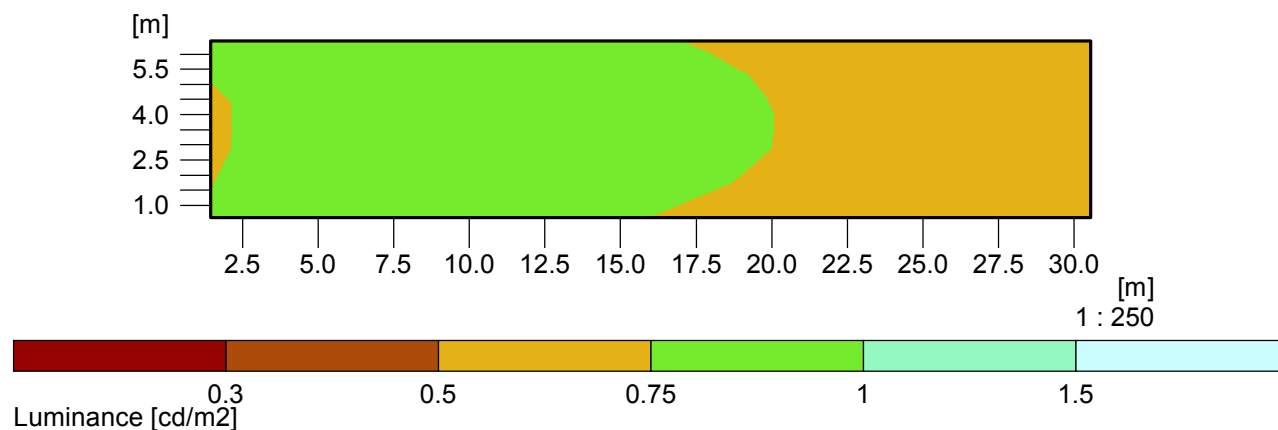


Observer location 1	: x = -60, y = 1.75, z = 1.5
Average luminance	Lav : 0.77 cd/m ²
Minimum luminance	Lmin : 0.52 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.68
Threshold increment	TI : 2 %
Longitudinal uniformity UI	Lmin/Lmax : 0.68

Object : Studie verejného osvetlení - komunikace prujezdni 2
Installation :
Project number :
Date : 19.12.2007

13.3 Calculation results, Komunikace prujezdni 2 var. 12

13.3.4 Pseudo colours, Road (L)



Observer location 2	: x = 92, y = 5.25, z = 1.5
Average luminance	Lav : 0.77 cd/m ²
Minimum luminance	Lmin : 0.52 cd/m ²
Overall uniformity U0	Lmin/Lm : 0.68
Threshold increment	TI : 2 %
Longitudinal uniformity UI	Lmin/Llmax : 0.68