

Madonas novads

Jaunkalsnava Draudzibas iela

Project code: LED gaismekli S2

Date: 08-06-2013

Description: Jaunkalsnava Draudzibas iela

Ielas apgaismojuma noslogotibas kategorija (S2)

Ielas platums 10m

Attalums starp balstiem 30.0m

Apgaismes Balsts 8.0m

Balsta konsole H-0m L-0m 15 gradi

Balsta attalums no Celja braucamas daljas -0m

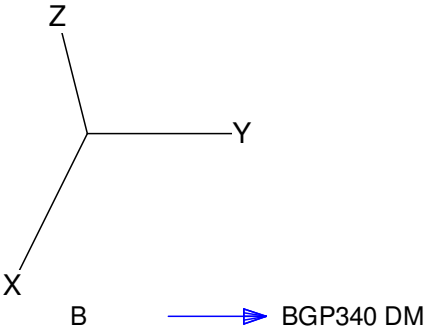
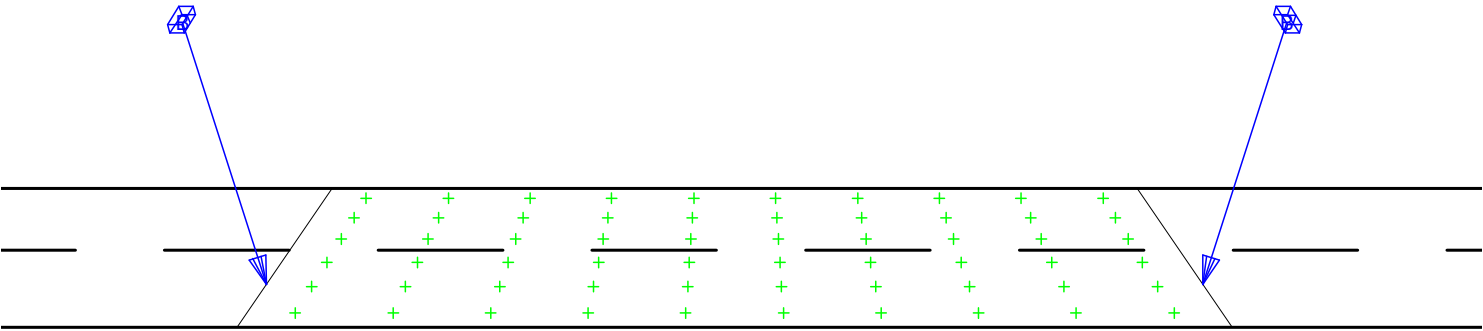
The nominal values shown in this report are the result of precision calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties and electrical supply.

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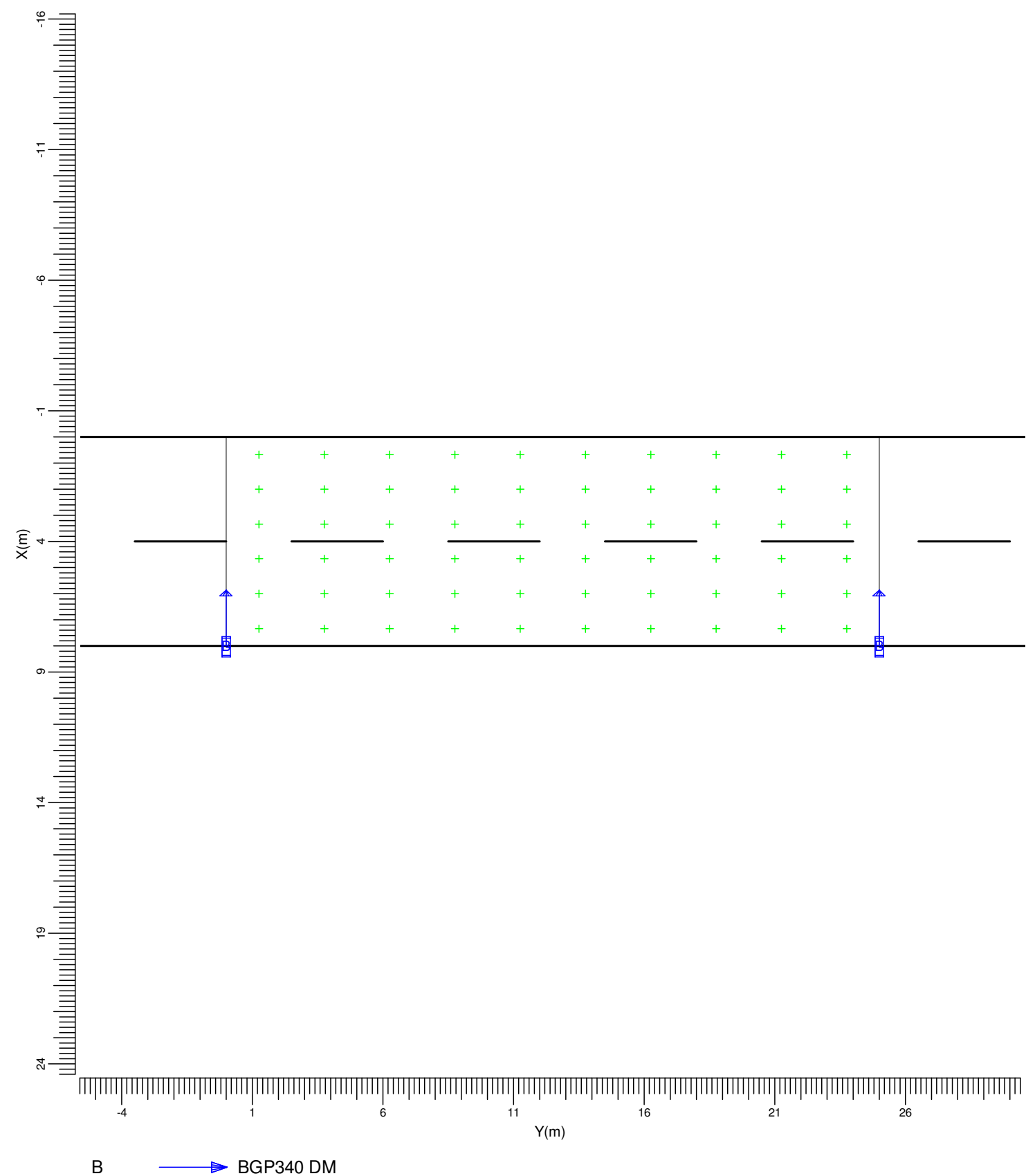
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1. Project Description

1.1 3-D Project Overview

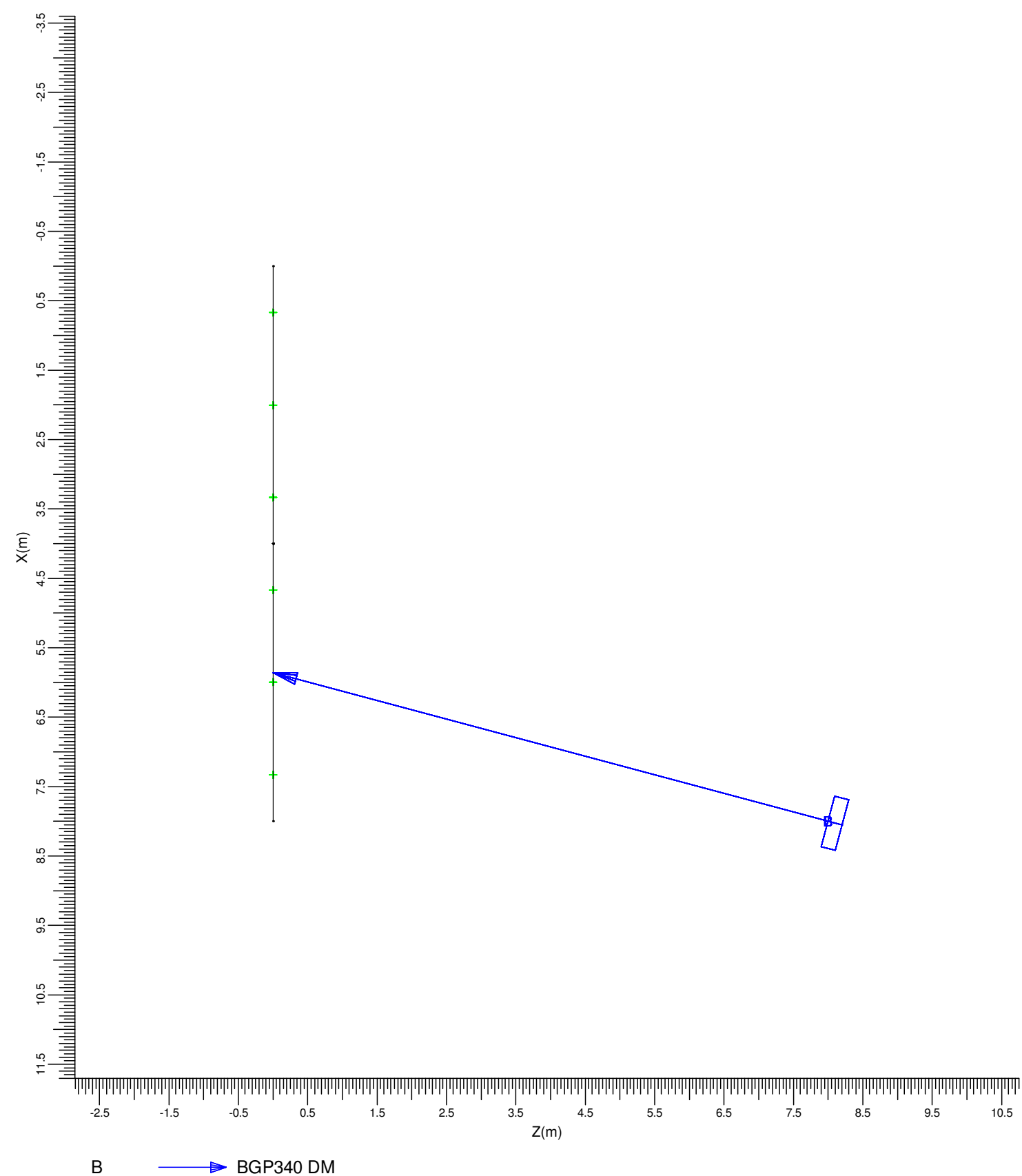


1.2 Top Project Overview



Scale
1:200

1.3 Front Project Overview



Scale
1:75

2. Overview of Schemes

The overall maintenance factor used for this project is 0.80.

Main Field grid is based on the CEN Illuminance grid method.

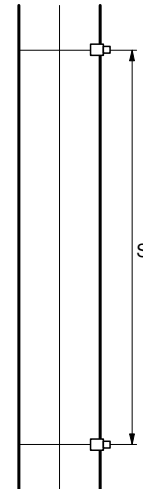
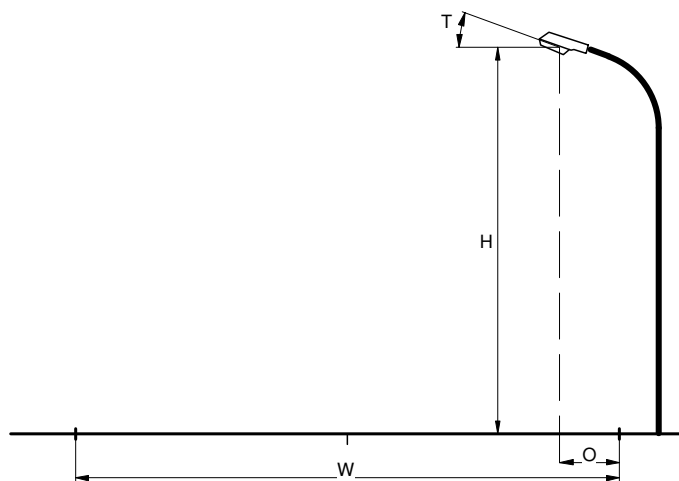
Code	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
B	BGP340 DM	1 * LED55S/640	56.0	1 * 5520

	Unit	Scheme 1
Carriageway		Single Carriageway
Road Width	m	8.00
Number of Lanes		2
Reflection Table		CIE C2
Q0 of Table		0.070
Maintenance Factor		0.80
Luminaire Code		B
Installation		Single Sided Right
Height	m	8.00
Spacing	m	25.00
Overhang	m	0.00
Tilt90	deg	15.0
Eh ave	lux	11.1
Eh min	lux	6.7

3. Summary

3.1 Main Road

Luminaire Type	:	BGP340 DM
Lamp Type	:	1 * LED55S/640
Lamp Flux	:	5520 lumen
Tilt90	(T) :	15.0 deg
Grid Method	:	CEN Illuminance
Project Maintenance Factor	:	0.80



Carriageway	:	Single Carriageway
Road Width	(W) :	8.00 m
Number of Lanes	:	2
Reflection Table	:	CIE C2
Q0 of Table	:	0.070
Maintenance Factor	:	0.80
Installation	:	Single Sided Right
Height	(H) :	8.00 m
Spacing	(S) :	25.00 m
Overhang	(O) :	0.00 m

Overall quality figures for the above road scheme.

Horizontal Illuminance

Average	=	11.1 lux
Minimum	=	6.7 lux

4. Calculation Results

4.1 Main Eh: Textual Table

Grid : Main at Z = -0.00 m
Calculation : Horizontal Illuminance (lux)

Y (m)	1.25	3.75	6.25	8.75	11.25	13.75	16.25	18.75	21.25	23.75
X (m)										
0.67	10	10	9	8	8	8	8	9	10	10
2.00	12	11	9	9	8	8	9	9	11	12
3.33	14	12	10	9	8	8	9	10	12	14
4.67	17	14	11	10	8	8	10	11	14	17
6.00	19	16	12	10	8	8	10	12	16	19>
7.33	19	15	11	8	7<	7	8	11	15	19

Average
11.1

Minimum
6.7

Min/Ave
0.60

Min/Max
0.35

Project maintenance factor
0.80

4.2 Main Eh: Filled Iso Contour

Grid

: Main at Z = -0.00 m

Calculation

: Horizontal Illuminance (lux)

