

VERZUOLO - VIA POMAROLO

(CEN 13201 : 2015)



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Study # : 01

Project # : 01

Date : 04/03/2019

MESSA IN SICUREZZA DELLE STRADE COMUNALI MEDIANTE INTEGRAZIONE DELL' IMPIANTO DI ILLUMINAZIONE ATTO A GARANTIRE INCOLUMITA' E SICUREZZA PUBBLICA

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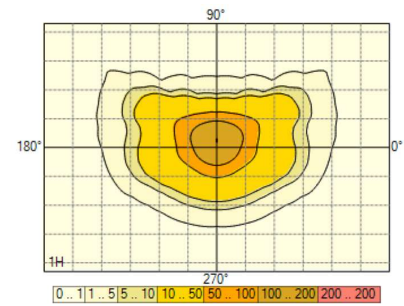
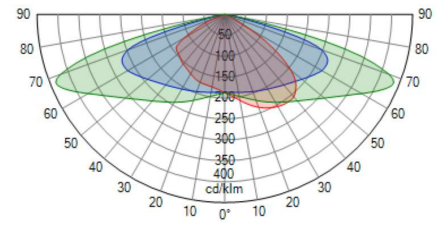
1. Fixtures

1.1. AXIA 2.2 40 LEDs 410mA WW Integrated lenses 5233 400572



Type	AXIA 2.2
Reflector	5233
Source	40 LEDs 410mA WW
Protector	Integrated lenses
Setting	
Source flux	6.9 klm
G-Class	4

Luminaire wattage	51.0 W
Source wattage	51.0 W
Efficacy	124 lm/W
Luminaire flux	6.299 klm
MF	0.85
Matrix	400572

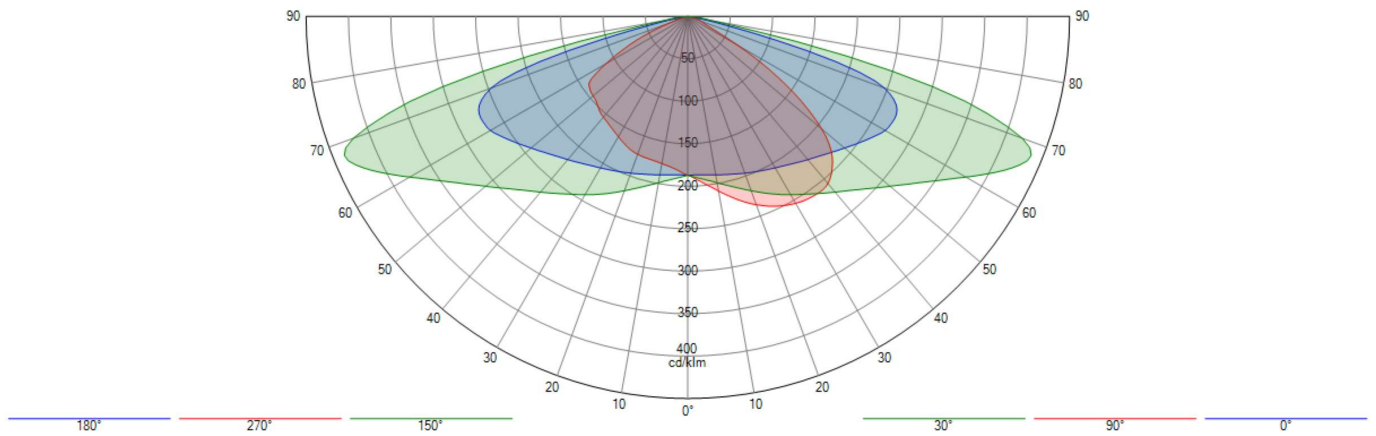


2. Photometric documents

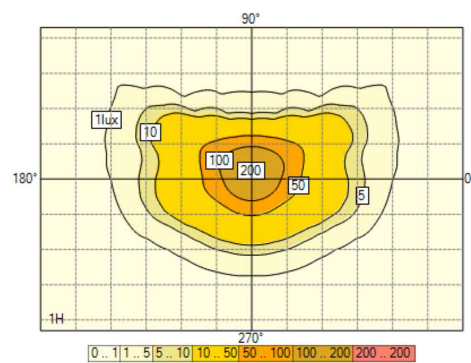
2.1. AXIA 2.2 40 LEDs 410mA WW Integrated lenses 5233 400572

400572

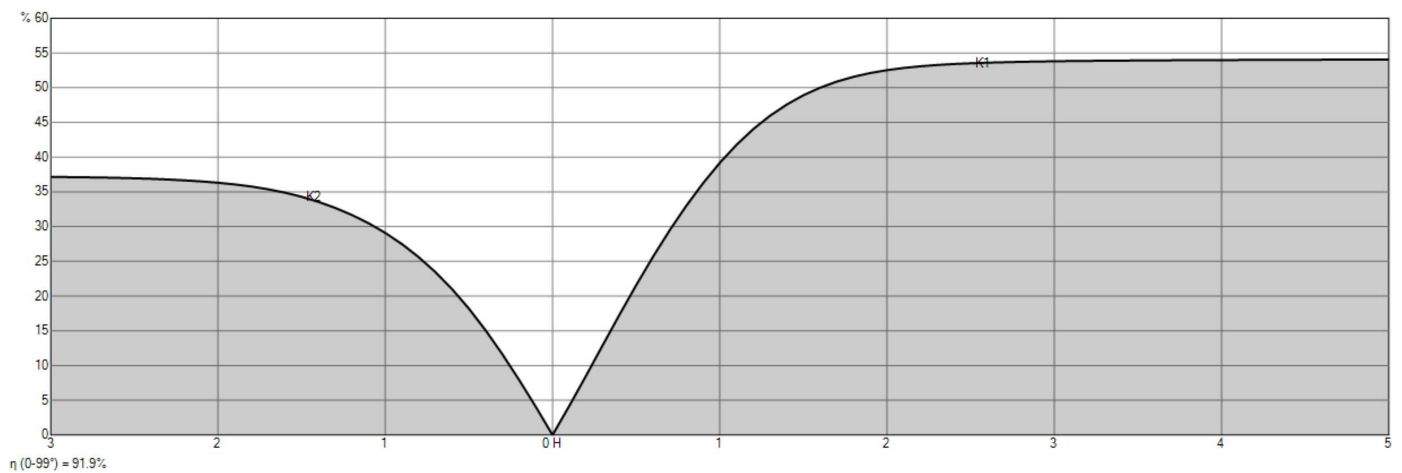
Polar/Cartesian diagram



Isolux



Utilization curve



3. Standard

3.1. Standard summary

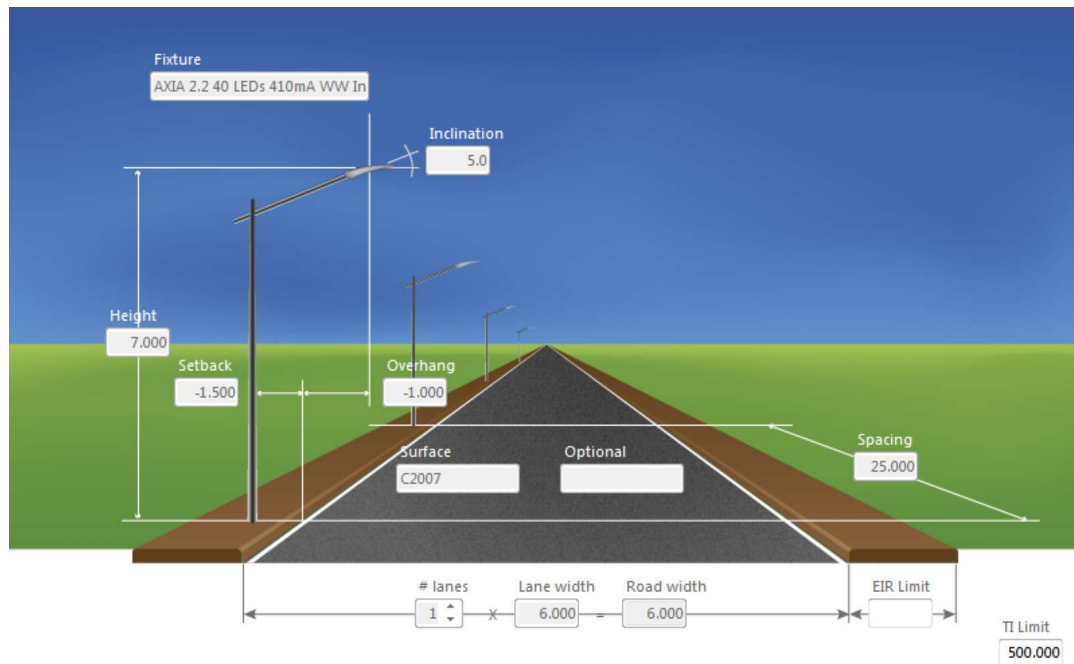
Calculations according to : CEN 13201 : 2015

Selected lighting class : M4

Constraints : LU : Ave = 0.75 cd/m² Uo = 40 % UI = 60 % UoW = 15 % TI : 15 EIR : 0.30

Selected lighting class (HS) : -

Constraints (HS) : -



3.2. Results

Power per km : 2.040 kW

- Road (LU) - M4

Luminance



Ave	0.76 cd/m ²	✓	0.75 cd/m ²
Min	0.46 cd/m ²	NA	
Uo	61 %	✓	40.00 %
UI 1	72 %	✓	60.00 %

- Values - M4

EIR	0.46	✓	0.30
TI	7	✓	15

4. Default

4.1. Matrix description

Ph. color	Matrix	Description	Source flux [klm]	Luminaire flux [klm]	Efficacy [lm/W]	MF	Height	Fixture
	400572	AXIA 2.2 40 LEDs 410mA WW Integrated lenses 5233	6.854	6.299	124	0.850	6 x 7m	

4.2. Luminaire positions

	N°	Position			Luminaire							Target		
		X [m]	Y [m]	Z [m]	Matrix	Description	Az [°]	Incl [°]	Rot [°]	Flux [klm]	MF	X [m]	Y [m]	Z [m]
<input checked="" type="checkbox"/>	1	-25.00	7.00	7.00	400572	AXIA 2.2 40 LEDs 410mA WW Integrated lenses ...	180.0	5.0	0.0	6.854	0.850	-25.00	6.39	0.00
<input checked="" type="checkbox"/>	2	0.00	7.00	7.00	400572	AXIA 2.2 40 LEDs 410mA WW Integrated lenses ...	180.0	5.0	0.0	6.854	0.850	0.00	6.39	0.00
<input checked="" type="checkbox"/>	3	25.00	7.00	7.00	400572	AXIA 2.2 40 LEDs 410mA WW Integrated lenses ...	180.0	5.0	0.0	6.854	0.850	25.00	6.39	0.00
<input checked="" type="checkbox"/>	4	50.00	7.00	7.00	400572	AXIA 2.2 40 LEDs 410mA WW Integrated lenses ...	180.0	5.0	0.0	6.854	0.850	50.00	6.39	0.00
<input checked="" type="checkbox"/>	5	75.00	7.00	7.00	400572	AXIA 2.2 40 LEDs 410mA WW Integrated lenses ...	180.0	5.0	0.0	6.854	0.850	75.00	6.39	0.00
<input checked="" type="checkbox"/>	6	100.00	7.00	7.00	400572	AXIA 2.2 40 LEDs 410mA WW Integrated lenses ...	180.0	5.0	0.0	6.854	0.850	100.00	6.39	0.00

4.3. Luminaire groups

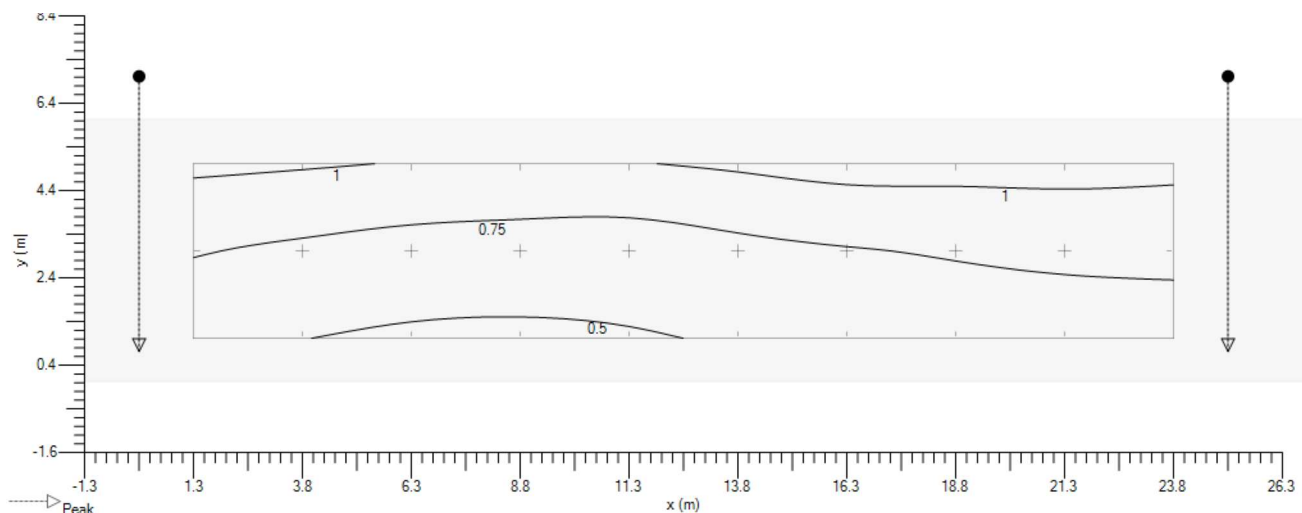
Linear															
	N°	Position			Luminaire					Dimension			Rotation		
		X [m]	Y [m]	Z [m]	Matrix	Az [°]	Incl [°]	Rot [°]	Dim [%]	Count	Spacing [m]	Size [m]	X [°]	Y [°]	Z [°]
<input checked="" type="checkbox"/>	1	-25.00	7.00	7.00	400572	180.0	5.0	0.0	100	6	25.00	125.00	0.0	0.0	0.0

4.4. Road (LU) - Luminance - RTable - Observer absolute

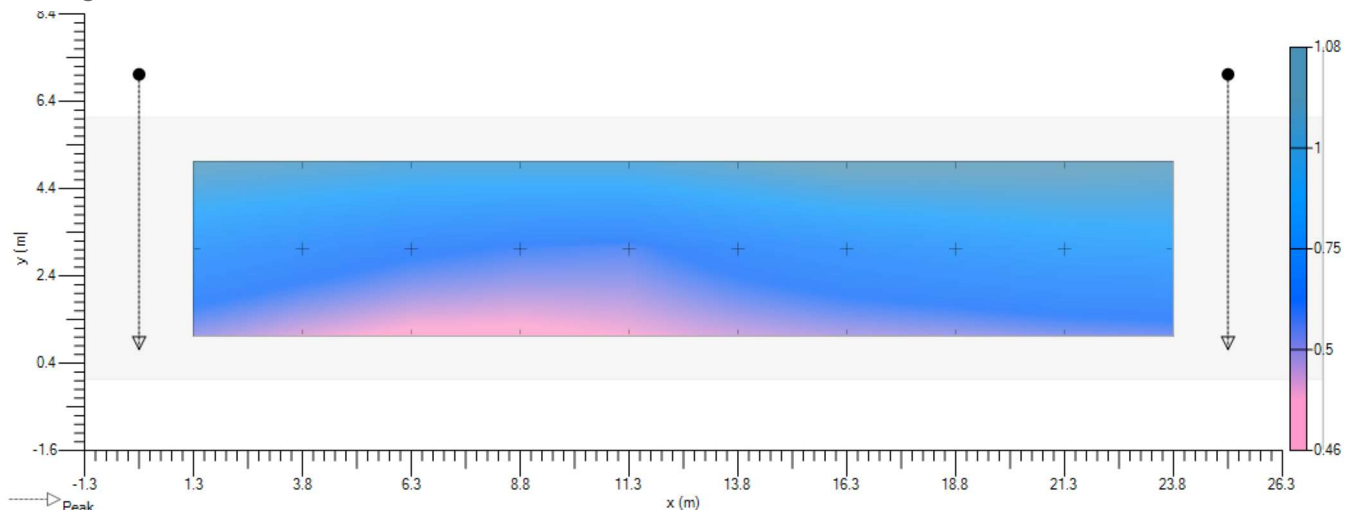
Values



Isolevel

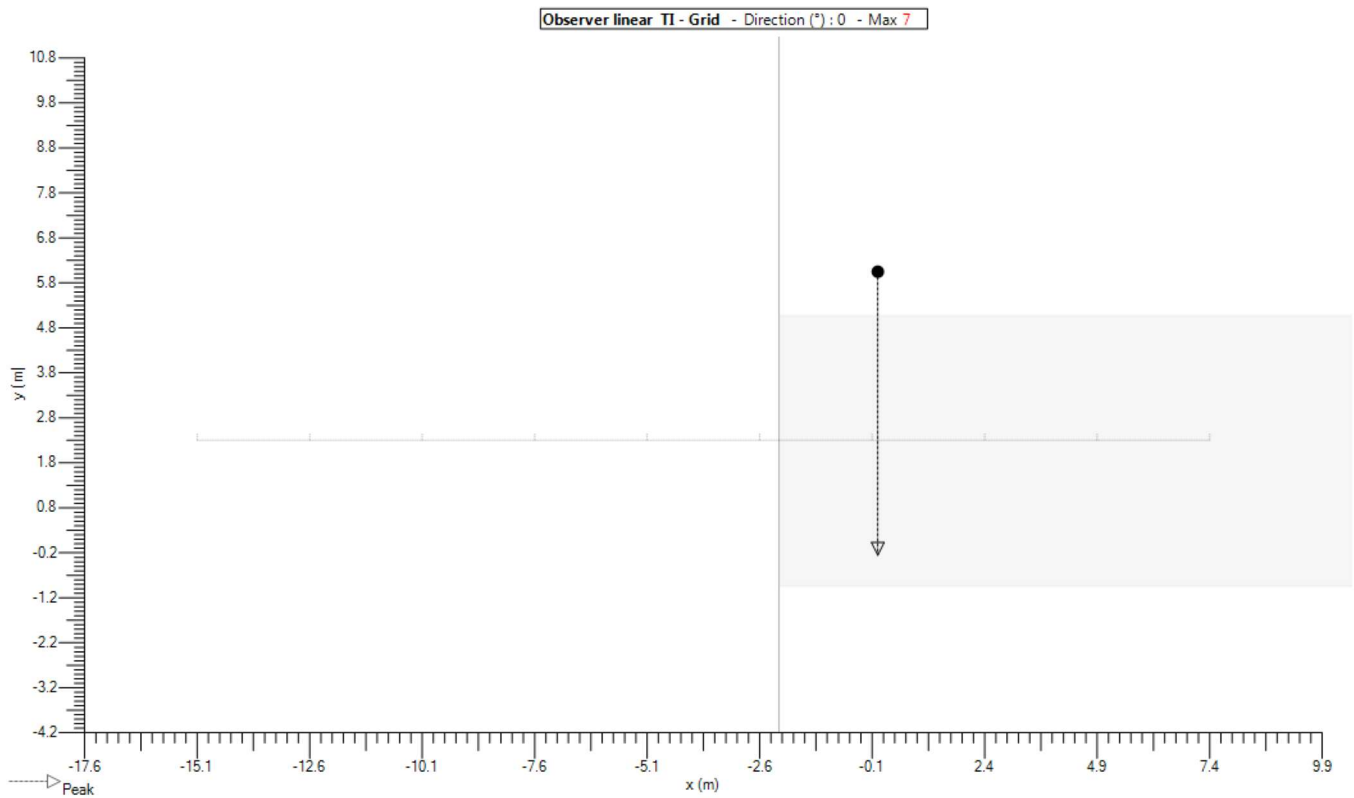


Shading

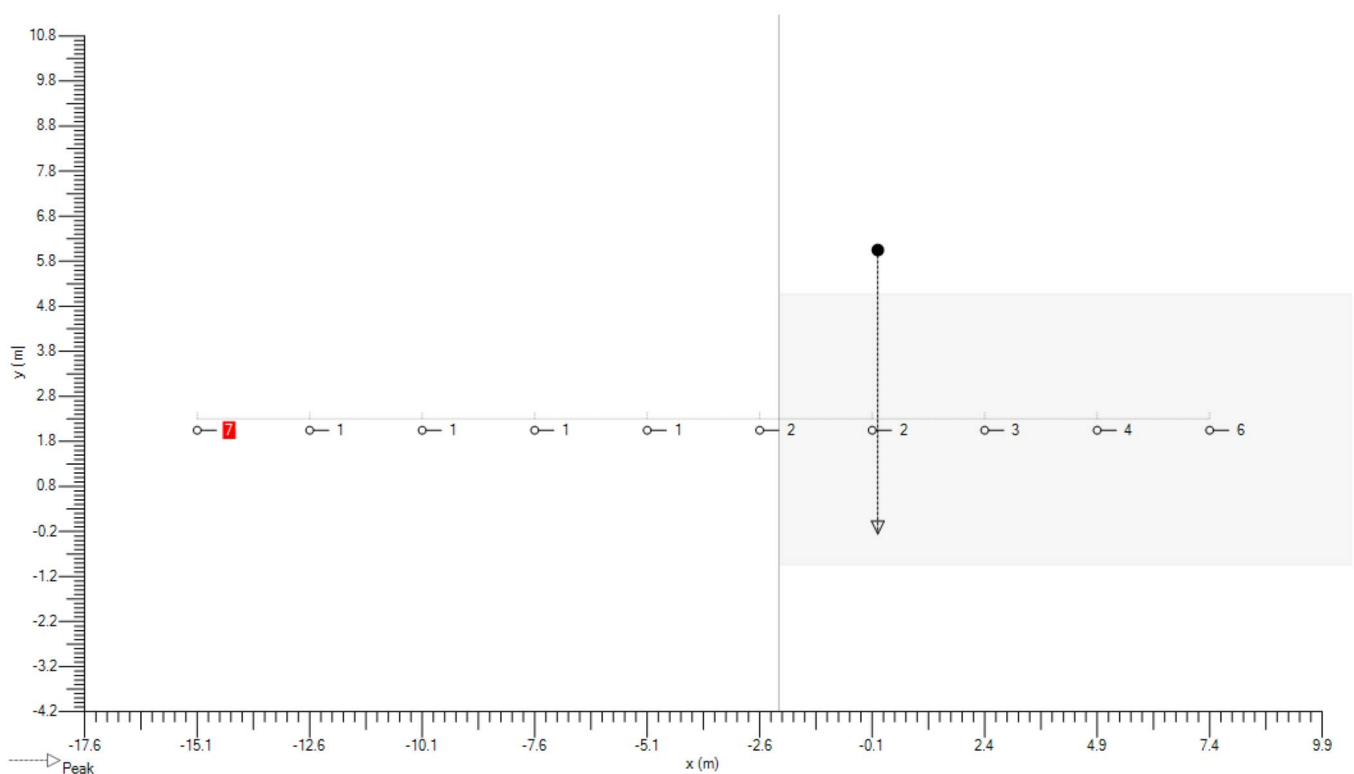


4.5. Road (TI 1) - Observer linear - TI - Grid

Implantation



Values



5. Grids

5.1. Road (LU)

General

Type : Grid rectangular XY

Use Exclusion : -

En : ☒Colour : 

Geometry

Origin

X : Y : Z : m

Rotation

X : Y : Z : °

Dimension


Count X :	<input type="text" value="10"/>	Count Y :	<input type="text" value="3"/>	
Spacing X :	<input type="text" value="2.50"/>	Spacing Y :	<input type="text" value="2.00"/>	m
Size X :	<input type="text" value="22.50"/>	Size Y :	<input type="text" value="4.00"/>	m

6. Observer

6.1. Road (TI 1)

General

Type : Observer linear

En : ☒Color : 

Calculation

Calculation : TI - Grid

Directions : 0.0

Grid : Road (LU)

Geometry

Origin

X : -15.13

Y : 3.00

Z : 1.50 m

Rotation

X : 0.0

Y : 0.0

Z : 0.0 °

Dimension

Count : 10

Spacing : 2.50 m

Size : 22.50 m