Heineken Sign

Sign Face

Project code:	040062030/D307025
Date:	10-06-2019
Designer:	Signify
Description:	Sample calculation Luminaires mounted at top of sign Luminaires mounted 0.6m away from sign 10 x eW Graze EC 1219mm 90x90 Tilted @ 70deg Please note for calculation purposes the ground has been used for the sign surface.

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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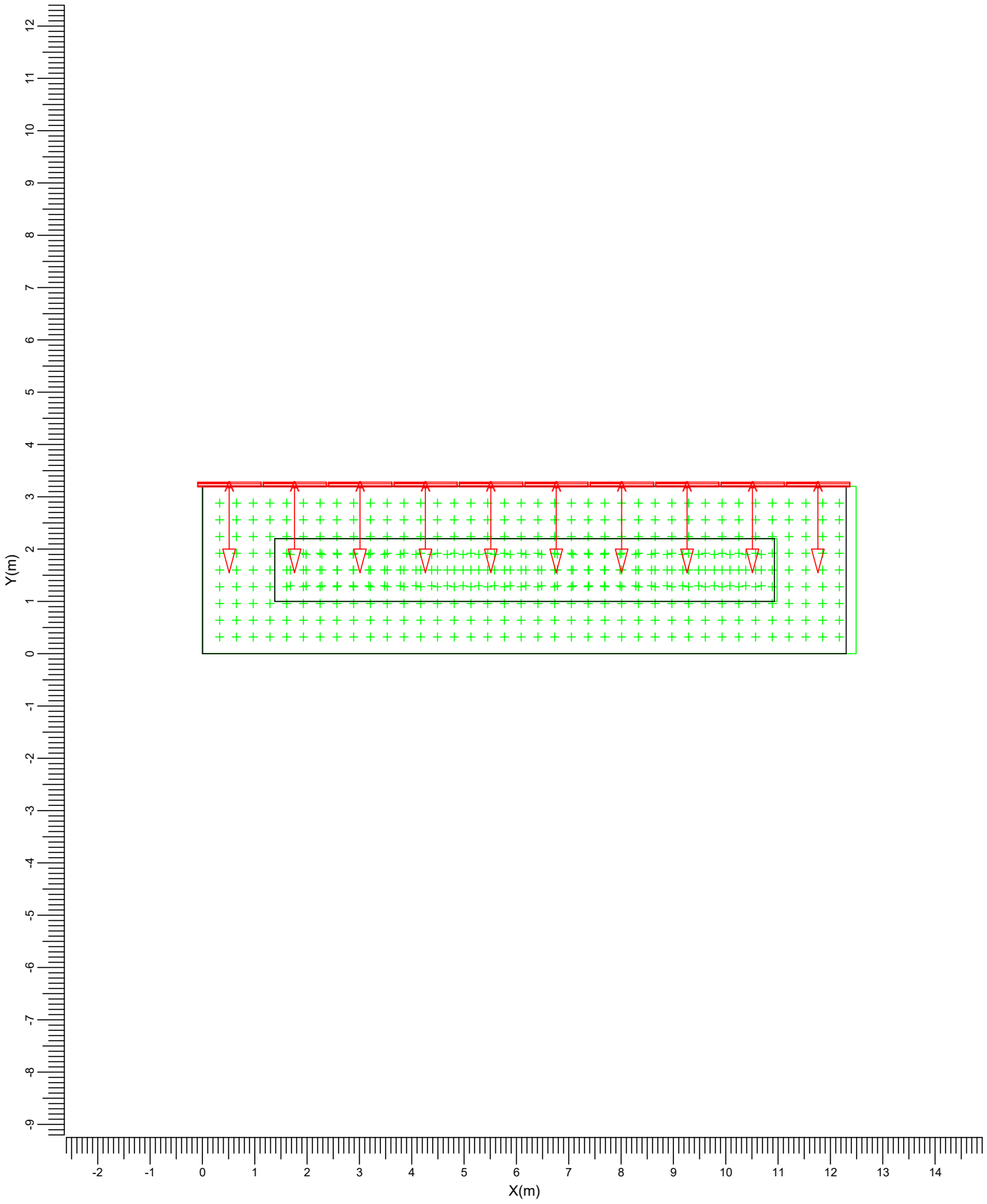
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1. Project Description

1.1 Top Project Overview



Scale
1:100

2. Summary

2.1 Project Luminaires

Code	Qty	Luminaire Type	Lamp Type	Power (W)	Flux (lm)
A	10	BCS428 L1219 LED-HB NO	1 * LED-HB-90x90--4000	20.0	1 * 984

The total installed power: 0.20 (kWatt)

2.2 Calculation Results

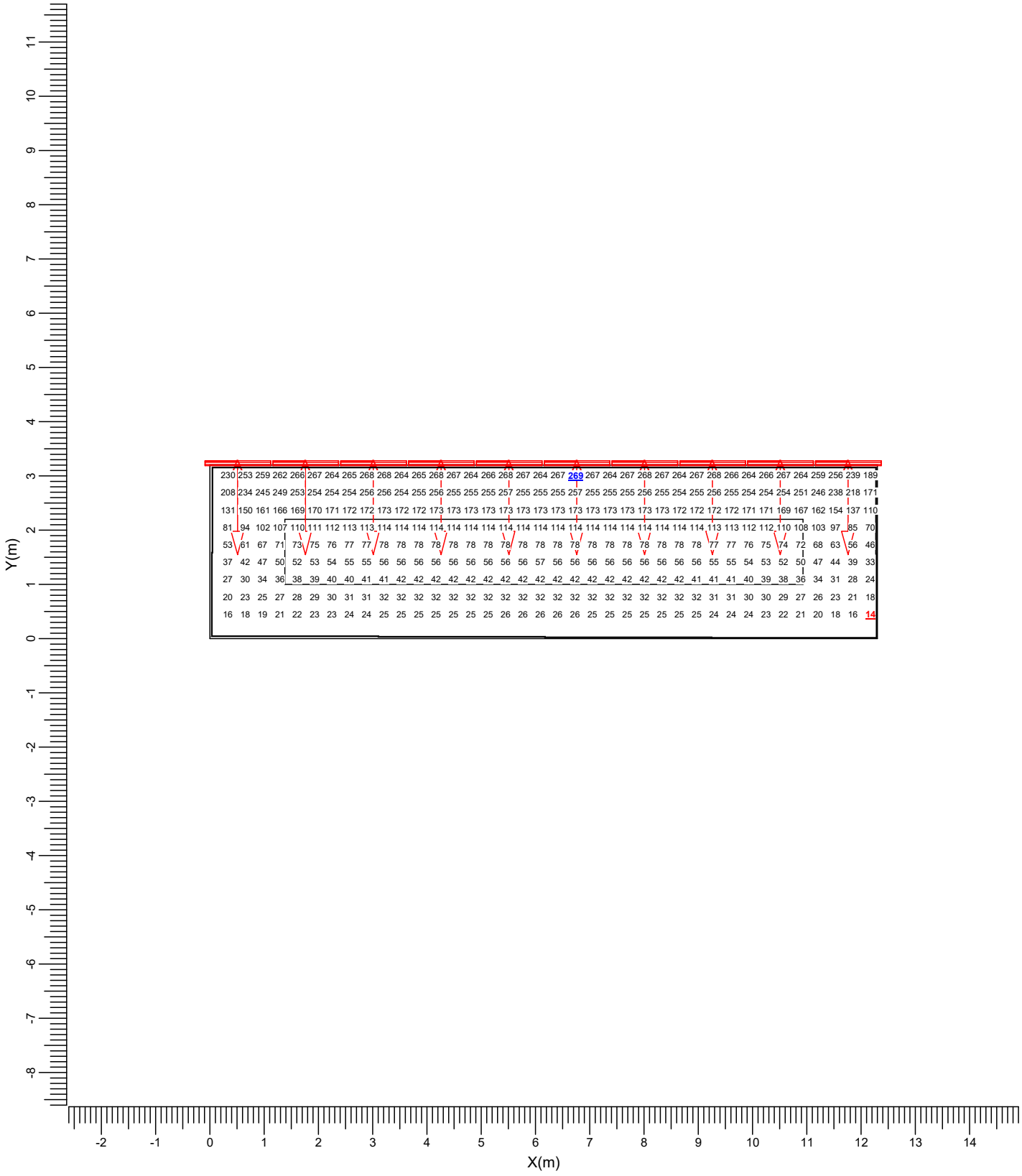
(Il)luminance Calculations:

Calculation	Type	Unit	Ave	Min/Ave	Min/Max
Complete Sign	Surface Illuminance	lux	111	0.13	0.05
Sign Face	Surface Illuminance	lux	81.5	0.65	0.47

3. Calculation Results

3.1 Complete Sign: Graphical Table

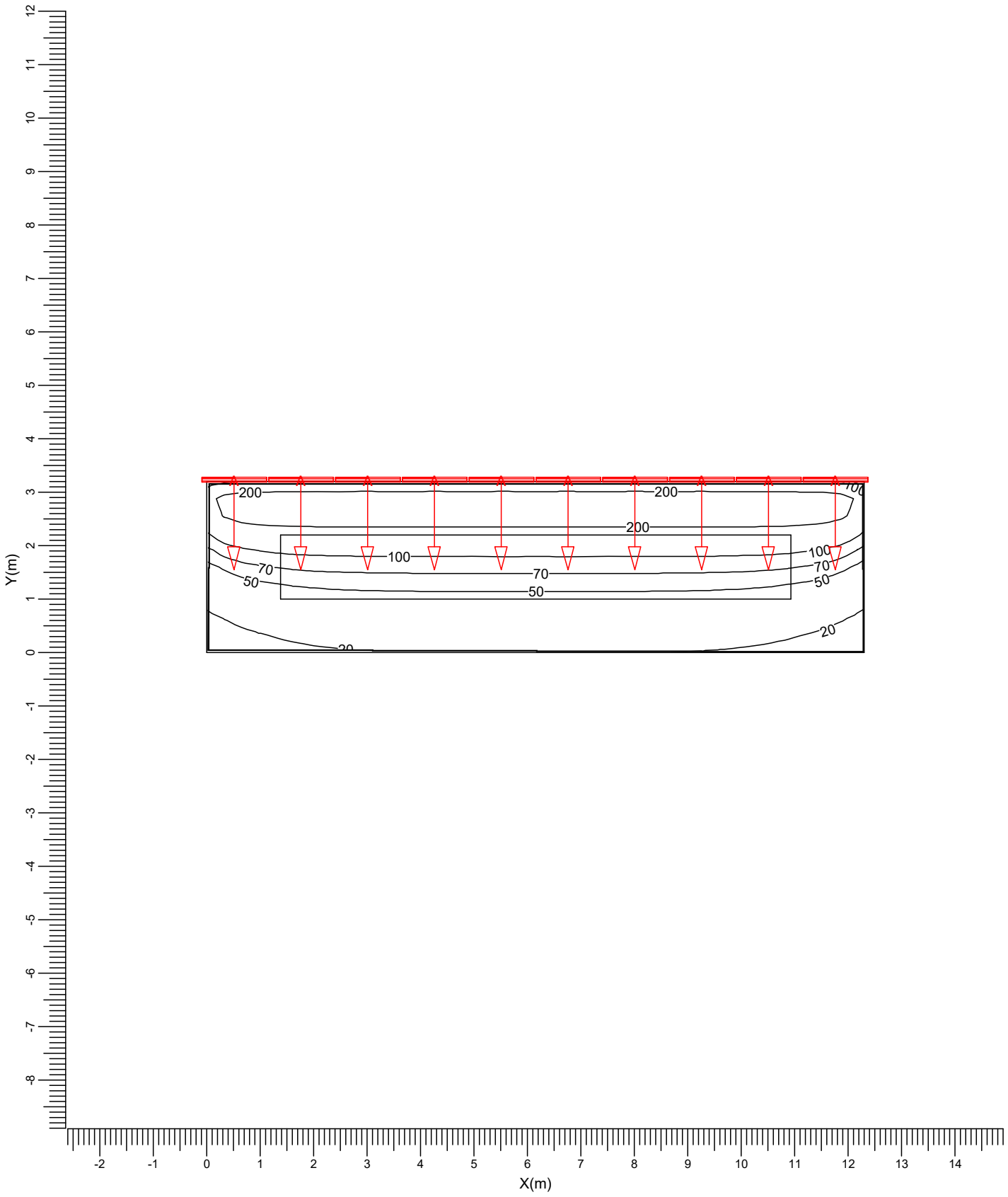
Grid : Complete Sign at Z = 0.00 m
Calculation : Surface Illuminance (lux)



Average	Min/Ave	Min/Max	Project maintenance factor	Scale
111	0.13	0.05	0.80	1:100

3.2 Complete Sign: Iso Contour

Grid : Complete Sign at Z = 0.00 m
Calculation : Surface Illuminance (lux)

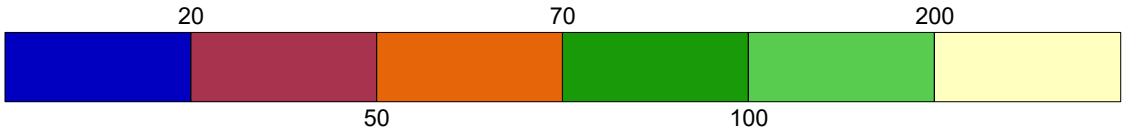


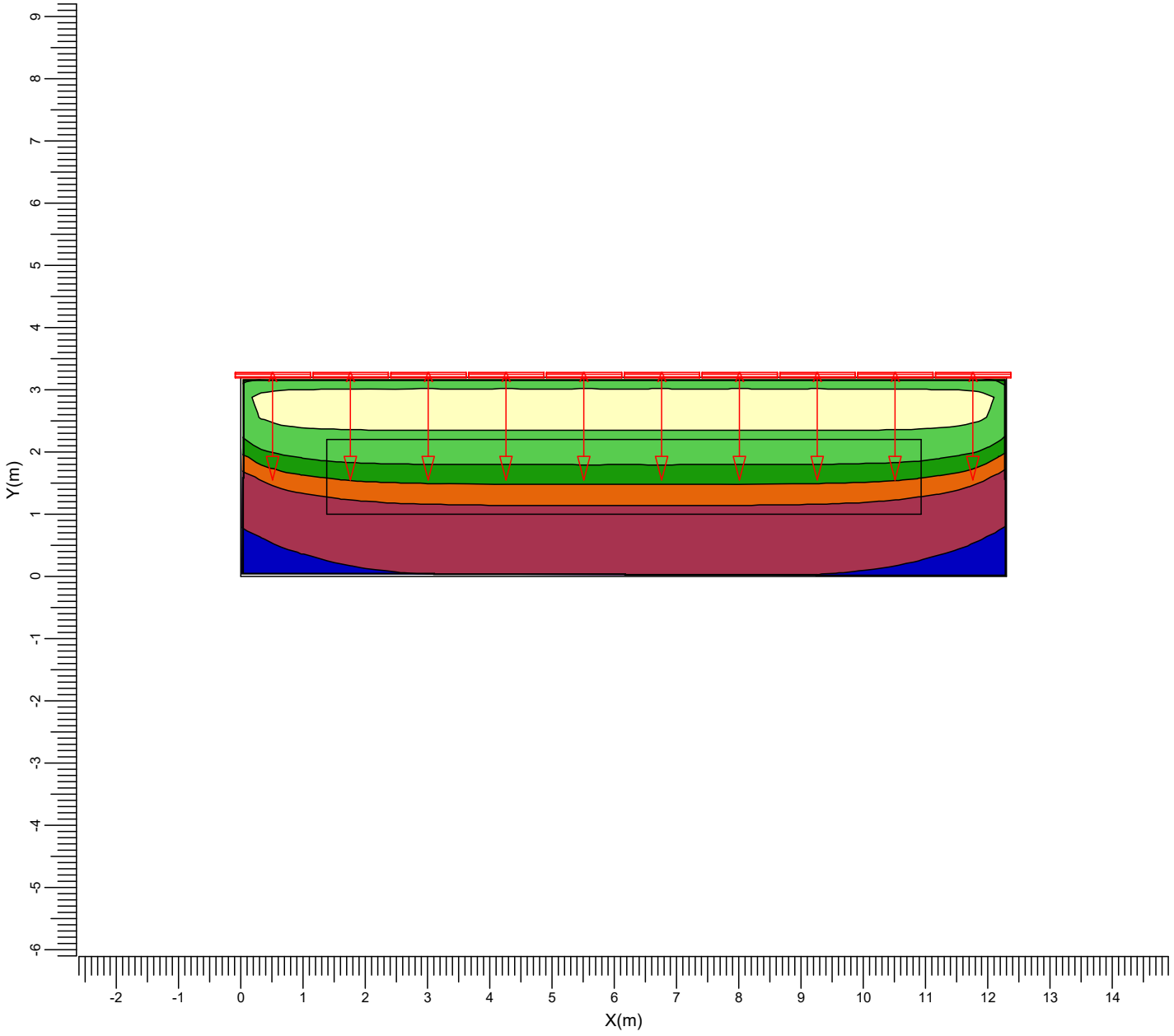
A BCS428 L1219 LED-HB NO

Average	Min/Ave	Min/Max	Project maintenance factor	Scale
111	0.13	0.05	0.80	1:100

3.3 Complete Sign: Filled Iso Contour

Grid : Complete Sign at Z = 0.00 m
Calculation : Surface Illuminance (lux)



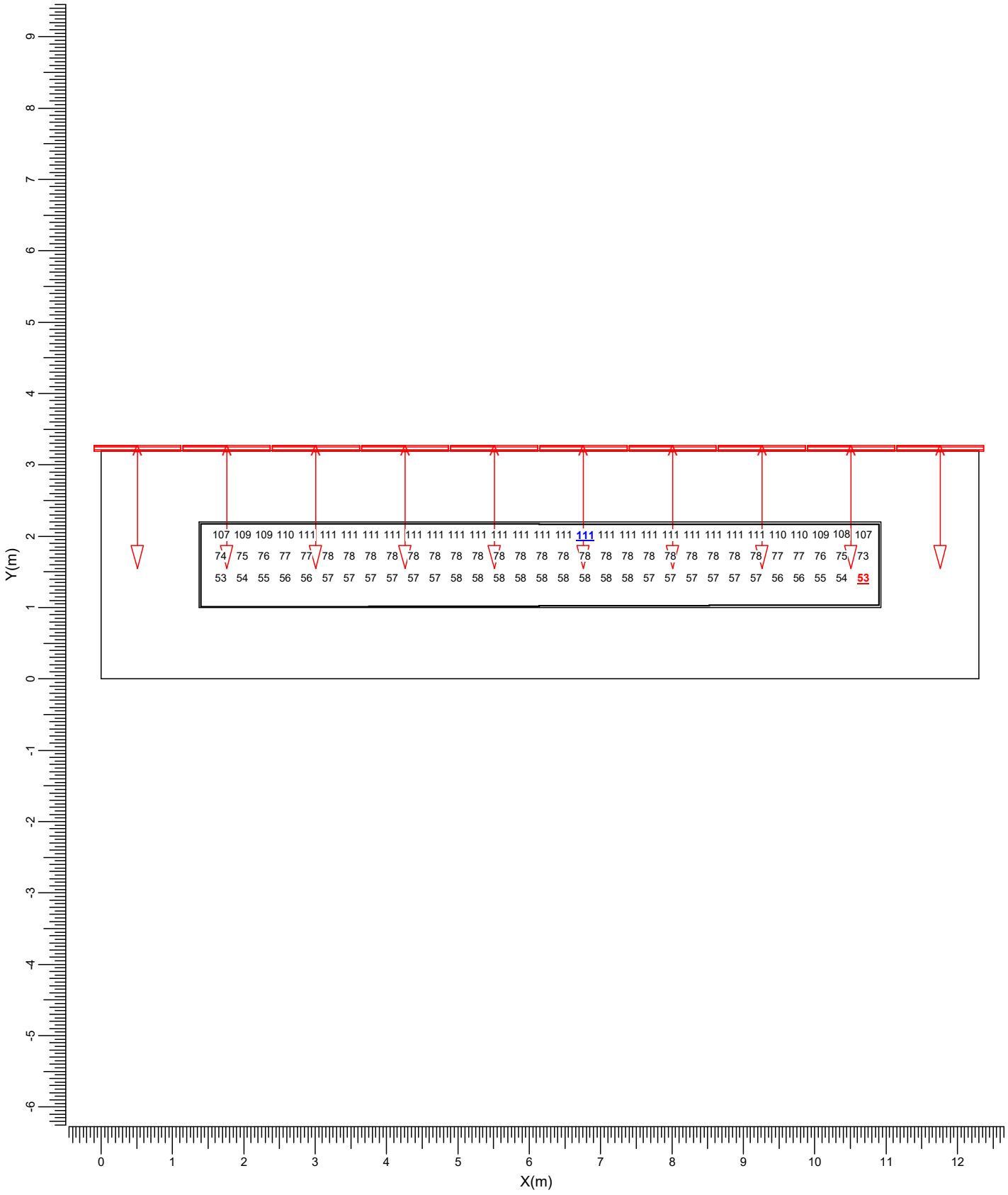


A BCS428 L1219 LED-HB NO

Average	Min/Ave	Min/Max	Project maintenance factor	Scale
111	0.13	0.05	0.80	1:100

3.4 Sign Face: Graphical Table

Grid : Sign Face at Z = 0.00 m
Calculation : Surface Illuminance (lux)

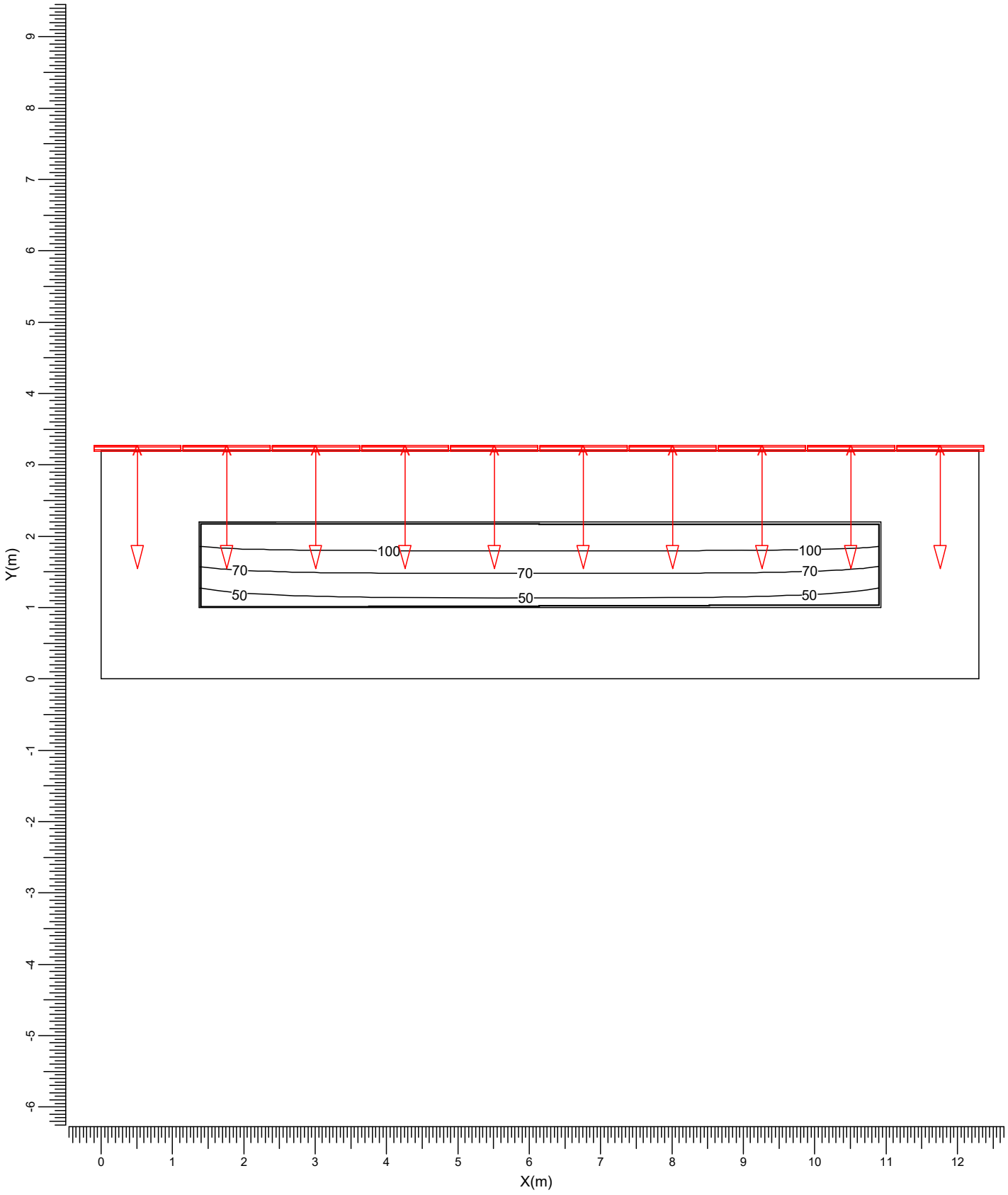


A BCS428 L1219 LED-HB NO

Average	Min/Ave	Min/Max	Project maintenance factor	Scale
81.5	0.65	0.47	0.80	1:75

3.5 Sign Face: Iso Contour

Grid : Sign Face at Z = 0.00 m
Calculation : Surface Illuminance (lux)

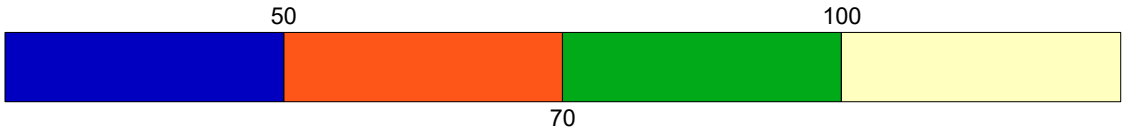


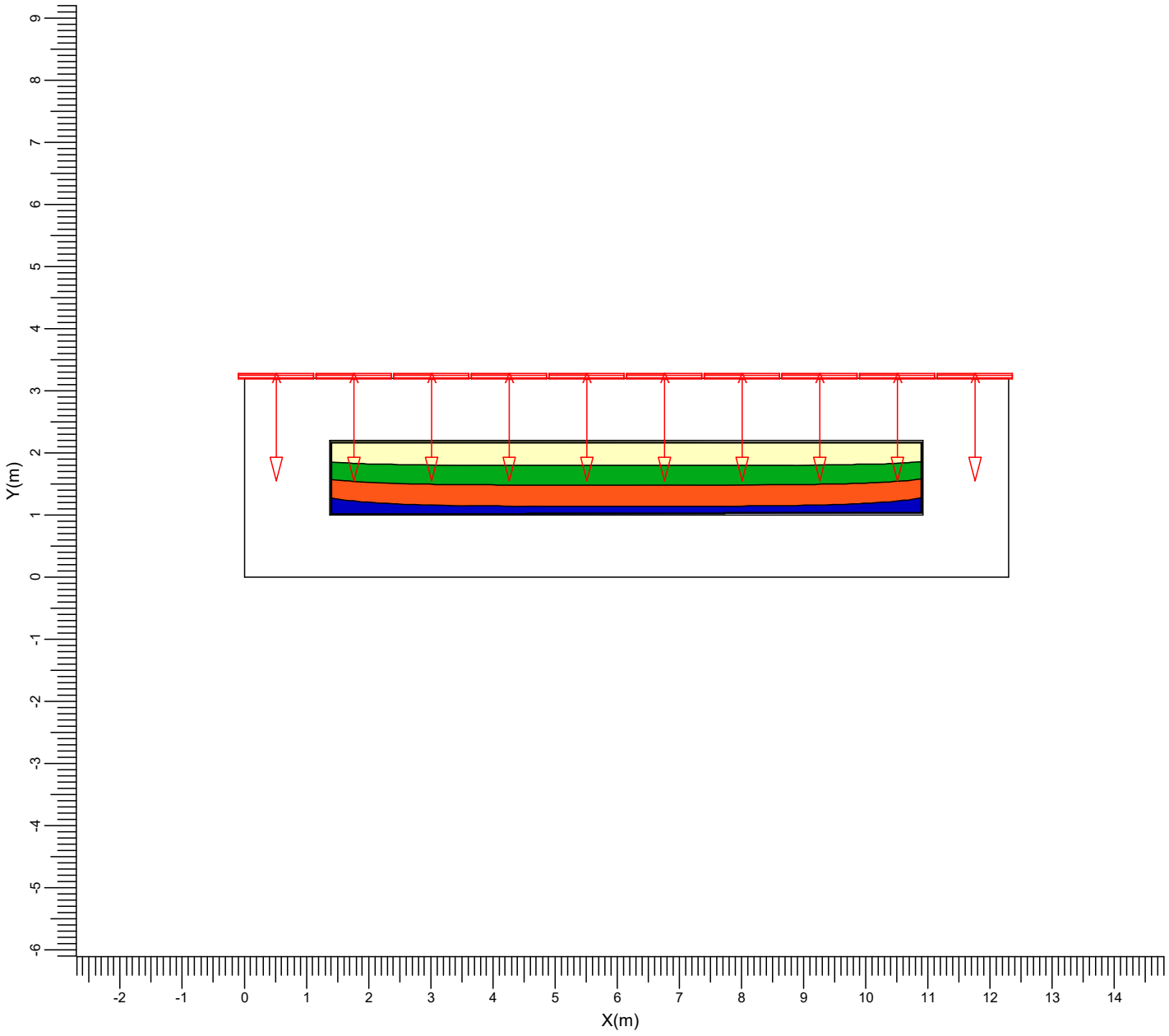
A BCS428 L1219 LED-HB NO

Average	Min/Ave	Min/Max	Project maintenance factor	Scale
81.5	0.65	0.47	0.80	1:75

3.6 Sign Face: Filled Iso Contour

Grid : Sign Face at Z = 0.00 m
Calculation : Surface Illuminance (lux)





A → BCS428 L1219 LED-HB NO

Average	Min/Ave	Min/Max	Project maintenance factor	Scale
81.5	0.65	0.47	0.80	1:100

4. Luminaire Details

4.1 Project Luminaires

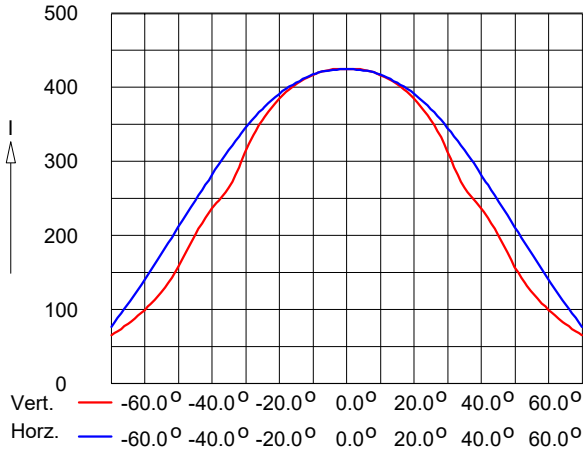
BCS428 L1219 LED-HB NO 1xLED-HB-90x90--4000/-

Light output ratios
- DLOR : 0.98
- ULOR : 0.02
- TLOR : 1.00

Lamp flux : 984 lm
Luminaire wattage : 20.0 W
Measurement code : ITL7484800

Note: Luminaire data not from database.

Luminous Intensity Diagram (candela/1000 lumen)



5. Installation Data

5.1 Legends

Project Luminaires:

Code	Qty	Luminaire Type	Lamp Type	Flux (lm)
A	10	BCS428 L1219 LED-HB NO	1 * LED-HB-90x90--4000	1 * 984

5.2 Luminaire Positioning and Orientation

Qty and Code	Position			Aiming Angles		
	X (m)	Y (m)	Z (m)	Rot.	Tilt90	Tilt0
1 * A	0.51	3.20	0.60	-90.0	70.0	0.0
1 * A	1.76	3.20	0.60	-90.0	70.0	0.0
1 * A	3.01	3.20	0.60	-90.0	70.0	0.0
1 * A	4.26	3.20	0.60	-90.0	70.0	0.0
1 * A	5.51	3.20	0.60	-90.0	70.0	0.0
1 * A	6.76	3.20	0.60	-90.0	70.0	0.0
1 * A	8.01	3.20	0.60	-90.0	70.0	0.0
1 * A	9.26	3.20	0.60	-90.0	70.0	0.0
1 * A	10.51	3.20	0.60	-90.0	70.0	0.0
1 * A	11.76	3.20	0.60	-90.0	70.0	0.0