

CUKRARNA

Installation : PISARNA

Project number : 426/16

Customer : SCAPELAB

Processed by : SCAPELAB

Date : 22.11.2016

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.

Object : CUKRARNA
Installation : PISARNA
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1 Luminaire data

1.1 Zumtobel, SLOIN slim SL LED4800-840 L3004... (42183928)

1.1.1 Data sheet

Manufacturer: Zumtobel

42183928 Surface-Suspended-Recessed SLOIN slim SL LED4800-840 L3004 PCO [STD]

LED light line with LED converter; LED service life lasts 50000 h before luminous flux is reduced to 85% of the initial value. Chromaticity tolerance (initial MacAdam): 3. Luminaire luminous flux: 4752 lm, Luminaire efficacy: 65 lm/W. Colour rendering Ra > 80, colour temperature 4000 K. Luminaire made of Aluminium. Luminaire with completely uniform appearance due to Polycarbonate (PC) cover. Light distribution with UGR < 22 in accordance with EN 12464-2011. Luminaire consists of housing and continuous optic of Polycarbonate (PC). Includes gear tray, wiring, and end-cap set. Luminaire wired with halogen-free leads. Degree of protection: IP40 below (IP20 above). Dimensions: 3004 x 45 x 64 mm weight: 7.6 kg

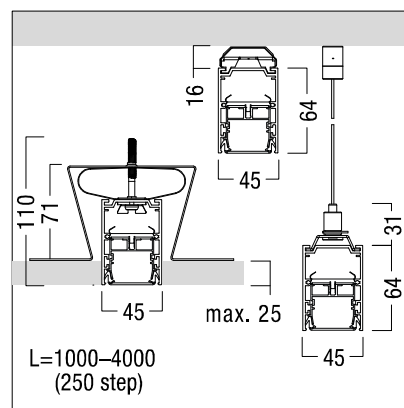
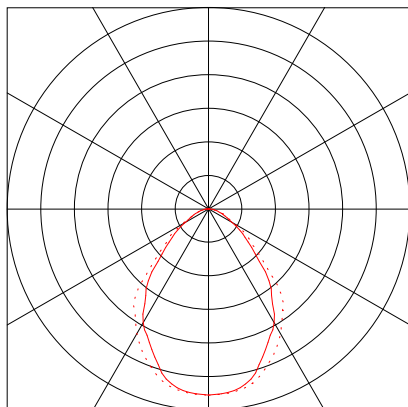
Luminaire data

Absolute Photometry
Luminaire efficacy : 64.65 lm/W
Classification : A50 ↓100.0% ↑0.0%
CIE Flux Codes : 66 91 99 100 100
UGR 4H 8H : 20.7 / 21.3
Power : 73.5 W
Luminous flux : 4752 lm

Equipped with

Quantity : 1
Designation : LED-Z42183928
Colour : Unknown
Colour reproduction : 80

Dimensions : 3004 mm x 45 mm x 64 mm
Height freestanding luminaire 500 mm



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1 Luminaire data

1.2 Zumtobel, SLOIN slim SL LED3200-840 L2004... (42183924)

1.2.1 Data sheet

Manufacturer: Zumtobel

42183924 Surface-Suspended-Recessed SLOIN slim SL LED3200-840 L2004 PCO [STD]

LED light line with LED converter; LED service life lasts 50000 h before luminous flux is reduced to 85% of the initial value. Chromaticity tolerance (initial MacAdam): 3. Luminaire luminous flux: 3168 lm, Luminaire efficacy: 62 lm/W. Colour rendering Ra > 80, colour temperature 4000 K. Luminaire made of Aluminium. Luminaire with completely uniform appearance due to Polycarbonate (PC) cover. Light distribution with UGR < 22 in accordance with EN 12464-2011. Luminaire consists of housing and continuous optic of Polycarbonate (PC). Includes gear tray, wiring, and end-cap set. Luminaire wired with halogen-free leads. Degree of protection: IP40 below (IP20 above). Dimensions: 2004 x 45 x 64 mm weight: 4.8 kg

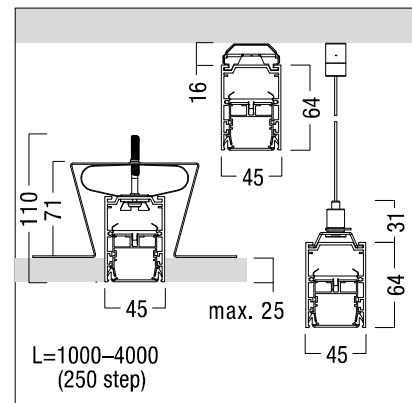
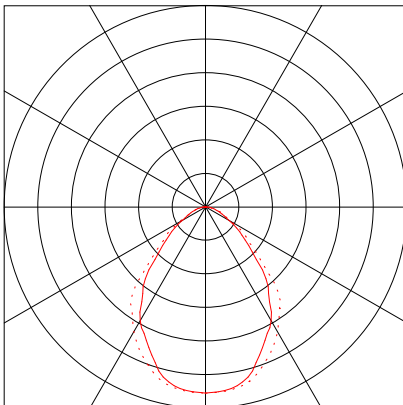
Luminaire data

Absolute Photometry
Luminaire efficacy : 61.51 lm/W
Classification : A50 ↓100.0% ↑0.0%
CIE Flux Codes : 66 91 99 100 100
UGR 4H 8H : 20.7 / 21.3
Power : 51.5 W
Luminous flux : 3168 lm

Equipped with

Quantity : 1
Designation : LED-Z42183924
Colour : Unknown
Colour reproduction : 80

Dimensions : 2004 mm x 45 mm x 64 mm
Height freestanding luminaire 500 mm



Object : CUKRARNA
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1 Luminaire data

1.3 Zumtobel, RESCLITE C ESCAPE AD NSI WH [STD] (42180388)

1.3.1 Data sheet

Manufacturer: Zumtobel

42180388 surface mounted RESCLITE C ESCAPE AD NSI WH [STD]

LED Safety luminaire for escape-route illumination with minimum output 1 lx; surface mounted; Luminaire for central emergency lighting supply for individual luminaire monitoring via Powerline, adjustable emergency lighting level; room height 2.2 to 7 m; high power LED, cool white; large die-cast aluminium heat sink ensures optimum thermal management; reflector and lens made of polycarbonate (PC); luminaire housing made of die-cast aluminium in powder coated white finish, RAL 9016; gear tray made of galvanised sheet steel; housing can be installed quickly on gear tray without tools; tool-free maintenance; through-wiring plug-in terminals for wire cross-sections up to 2.5 mm²; side cable-entry possible; luminaire total power: 5 W; power supply: 230V AC, 220V DC; rotary switch for mechanical address-setting; degree of protection: IP40, class of protection: SC1; non-maintained and maintained mode possible, Maintained mode: -5°C to +25°C, Non-maintained mode: -5°C to +30°C; Dimensions: 146 x 146 x 51 mm; weight: 0.55 kg; Luminaire wired with halogen-free leads; max. line length from emergency power source to last luminaire: 300 m.

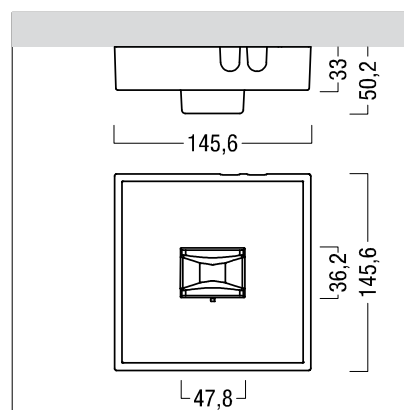
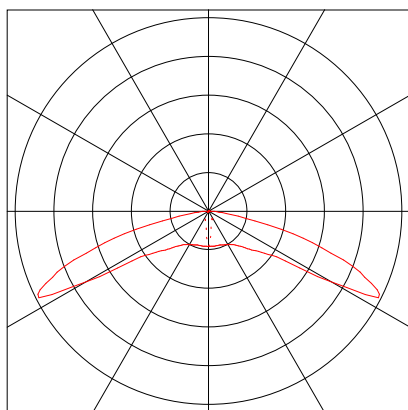
Luminaire data

Absolute Photometry
Luminaire efficacy : 34.6 lm/W
Classification : A10 ↓99.4% ↑0.6%
CIE Flux Codes : 27 48 92 99 100
UGR 4H 8H : 40.7 / 17.6
Power : 5 W
Luminous flux : 173 lm

Equipped with

Quantity : 1
Designation : LED-Z37
Colour : Unknown
Colour reproduction :

Dimensions : 146 mm x 146 mm x 51 mm



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1 Luminaire data

1.4 Zumtobel, RESCLITE C SPOT AD NSI WH [STD] (42180420)

1.4.1 Data sheet

Manufacturer: Zumtobel

42180420 surface mounted RESCLITE C SPOT AD NSI WH [STD]

LED Safety luminaire for illuminating fire-fighting and first-aid equipment and danger spots with minimum output 5 lx; surface mounted; Luminaire for central emergency lighting supply for individual luminaire monitoring via Powerline, adjustable emergency lighting level; room height 2.2 to 7 m; high power LED, cool white; large die-cast aluminium heat sink ensures optimum thermal management; lens made of polycarbonate (PC); luminaire housing made of die-cast aluminium in powder coated white finish, RAL 9016; gear tray made of galvanised sheet steel; housing can be installed quickly on gear tray without tools; tool-free maintenance; through-wiring plug-in terminals for wire cross-sections up to 2.5 mm²; side cable-entry possible; luminaire total power: 5 W; power supply: 230V AC, 220V DC; rotary switch for mechanical address-setting; degree of protection: IP40, class of protection: SC1; non-maintained and maintained mode possible, Maintained mode: -5°C to +25°C, Non-maintained mode: -5°C to +30°C; Dimensions: 146 x 146 x 37 mm; weight: 0.55 kg; Luminaire wired with halogen-free leads; max. line length from emergency power source to last luminaire: 300 m.

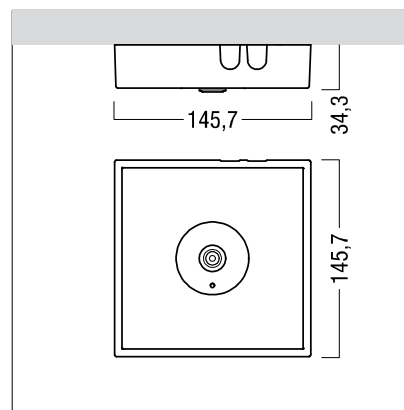
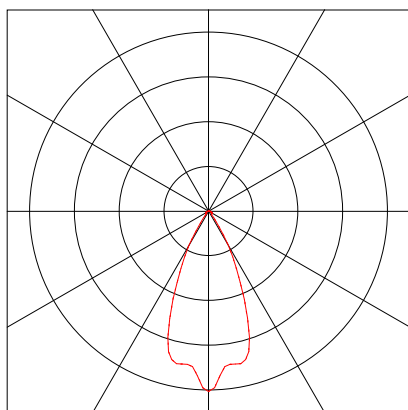
Luminaire data

Absolute Photometry
Luminaire efficacy : 38.6 lm/W
Classification : A70 ↓100.0% ↑0.0%
CIE Flux Codes : 89 95 98 100 100
UGR 4H 8H : 13.7 / 13.7
Power : 5 W
Luminous flux : 193 lm

Equipped with

Quantity : 1
Designation : LED-Z644
Colour : Unknown
Colour reproduction :

Dimensions : 146 mm x 146 mm x 37 mm



Object : CUKRARNA
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1 Luminaire data

1.5 ZUMTOBEL, ONLITE ERI (70446584 (STD - Standard))

1.5.1 Data sheet

Manufacturer: ZUMTOBEL

70446584 (STD - Standard)

ONLITE ERI

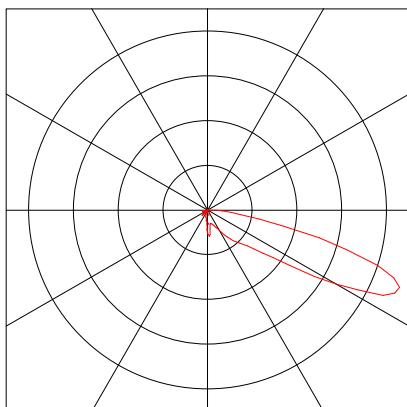
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 34 lm/W
Classification : A10 ↓99.6% ↑0.4%
CIE Flux Codes : 23 48 87 100 100
UGR 4H 8H : 47.8 / 20.8
Power : 1 W
Luminous flux : 34 lm

Equipped with

Quantity : 1
Designation : LED-Z396
0C8W
Colour :
Luminous flux : 34 lm

Dimensions : 15 mm x 15 mm x 2 mm

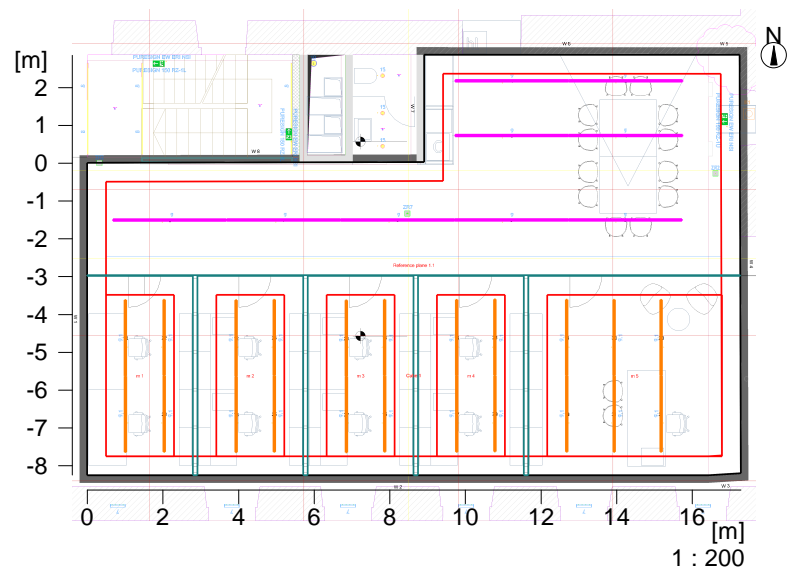


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2 01_splošna osvetlitev

2.1 Description, 01_splošna osvetlitev

2.1.1 Floor plan



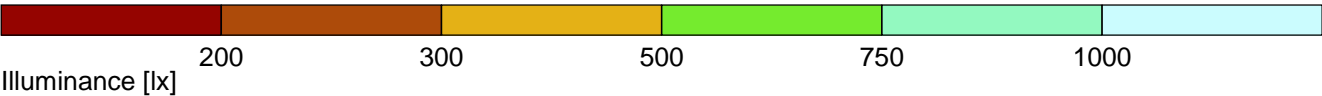
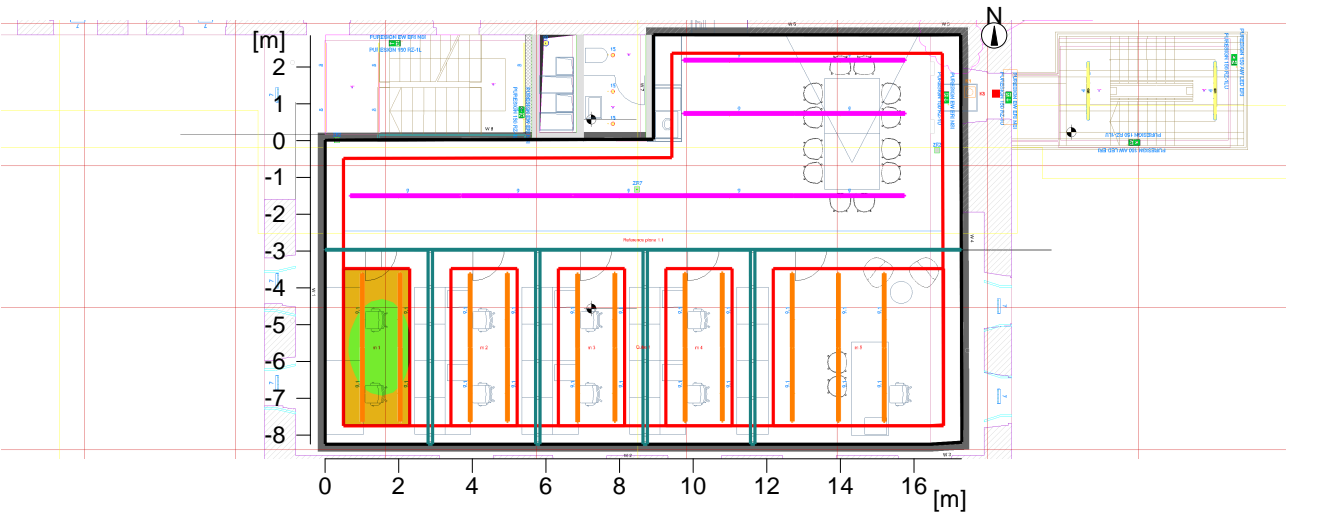
Wall	x	y	Length	Reflectance
1	63.24 m	13.29 m	8.24 m	70.0 %
2	79.68 m	13.29 m	16.44 m	70.0 %
3	80.53 m	13.34 m	0.85 m	70.0 %
4	80.50 m	24.38 m	11.04 m	70.0 %
5	79.68 m	24.38 m	0.82 m	70.0 %
6	72.16 m	24.38 m	7.52 m	70.0 %
7	72.16 m	21.55 m	2.83 m	70.0 %
8	63.24 m	21.53 m	8.91 m	70.0 %
Floor				45.0 %
Ceiling				70.0 %
Room height		4.00 m		
Height of reference plane		0.75 m		

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2 01_splošna osvetlitev

2.2 Summary, 01_splošna osvetlitev

2.2.1 Result overview, Measuring area 1



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	3.93 m
Maintenance factor	0.80

Total luminous flux of all lamps	112464 lm
Total power	1794.5 W
Total power per area (166.21 m²)	10.80 W/m²

Illuminance

Average illuminance	Eav	486 lx
Minimum illuminance	Emin	358 lx
Maximum illuminance	Emax	577 lx
Uniformity Uo	Emin/Em	1:1.36 (0.74)
Diversity Ud	Emin/Emax	1:1.61 (0.62)

Type No.\Make

1	9	Zumtobel
		Order No. : 42183928
		Luminaire name : SLOIN slim SL LED4800-840 L3004 PCO [STD]
		Equipment : 1 x LED-Z42183928 74 W / 4752 lm

Object : CUKRARNA
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2 01_splošna osvetlitev

2.2 Summary, 01_splošna osvetlitev

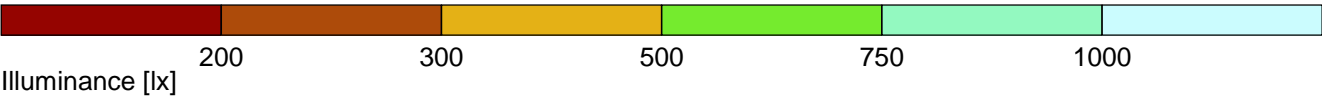
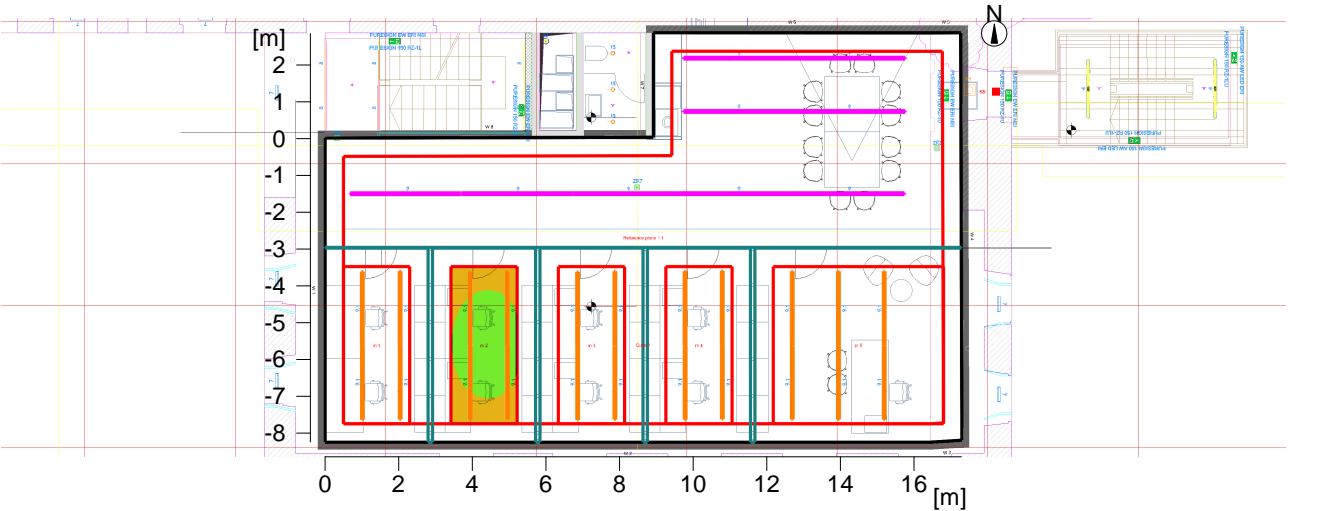
2.2.1 Result overview, Measuring area 1

2	22	Order No.	: 42183924
		Luminaire name	: SLOIN slim SL LED3200-840 L2004 PCO [STD]
		Equipment	: 1 x LED-Z42183924 52 W / 3168 lm

Object : CUKRARNA
Installation : PISARNA
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2.2 Summary, 01_splošna osvetlitev

2.2.2 Result overview, Measuring area 2



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	3.93 m
Maintenance factor	0.80

Total luminous flux of all lamps	112464 lm
Total power	1794.5 W
Total power per area (166.21 m²)	10.80 W/m²

Illuminance

Average illuminance	Eav	506 lx
Minimum illuminance	Emin	371 lx
Maximum illuminance	Emax	599 lx
Uniformity Uo	Emin/Em	1:1.36 (0.73)
Diversity Ud	Emin/Emax	1:1.62 (0.62)

Type No.\Make

1		9		Zumtobel	
				Order No.	: 42183928
				Luminaire name	: SLOIN slim SL LED4800-840 L3004 PCO [STD]
				Equipment	: 1 x LED-Z42183928 74 W / 4752 lm

Object : CUKRARNA
Installation : PISARNA
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2.2 Summary, 01_splošna osvetlitev

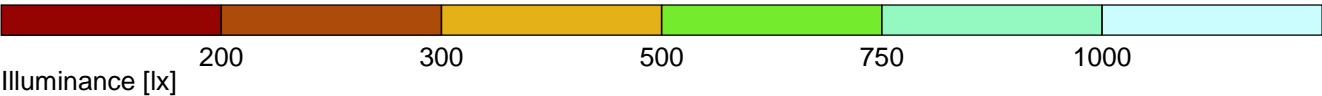
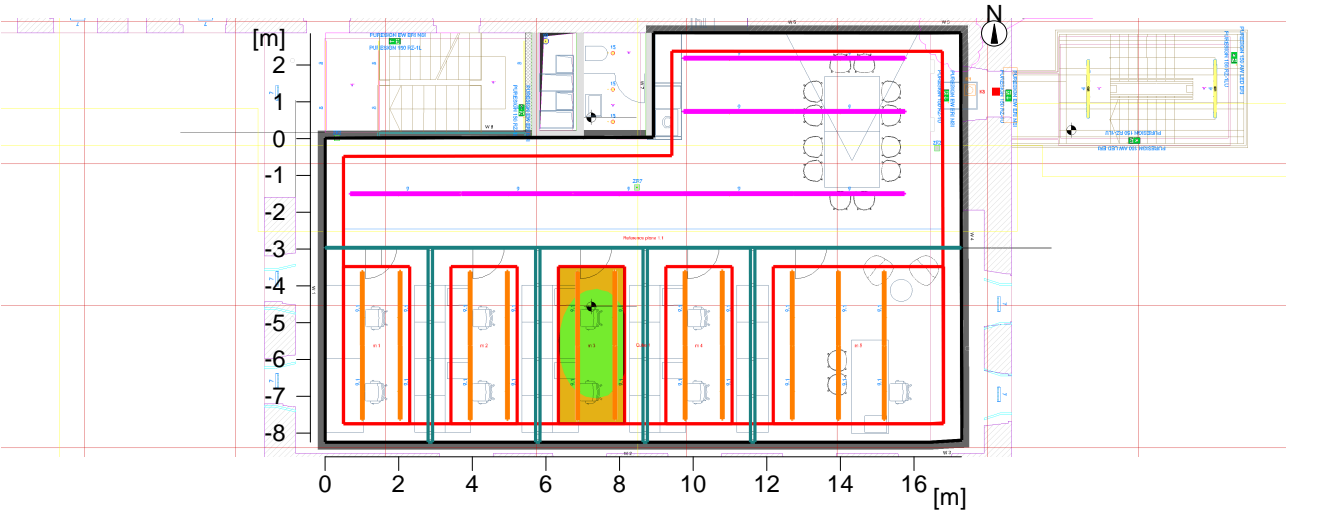
2.2.2 Result overview, Measuring area 2

2	22	Order No.	: 42183924
		Luminaire name	: SLOIN slim SL LED3200-840 L2004 PCO [STD]
		Equipment	: 1 x LED-Z42183924 52 W / 3168 lm

Object : CUKRARNA
Installation : PISARNA
Project number : 426/16
Date : 22.11.2016

2.2 Summary, 01_splošna osvetlitev

2.2.3 Result overview, Measuring area 3



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	3.93 m
Maintenance factor	0.80

Total luminous flux of all lamps	112464 lm
Total power	1794.5 W
Total power per area (166.21 m²)	10.80 W/m²

Illuminance

Average illuminance	Eav	507 lx
Minimum illuminance	Emin	372 lx
Maximum illuminance	Emax	600 lx
Uniformity Uo	Emin/Em	1:1.36 (0.73)
Diversity Ud	Emin/Emax	1:1.61 (0.62)

Type No.\Make

1	9	Zumtobel	
		Order No.	: 42183928
		Luminaire name	: SLOIN slim SL LED4800-840 L3004 PCO [STD]
		Equipment	: 1 x LED-Z42183928 74 W / 4752 lm

Object : CUKRARNA
Installation : PISARNA
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2.2 Summary, 01_splošna osvetlitev

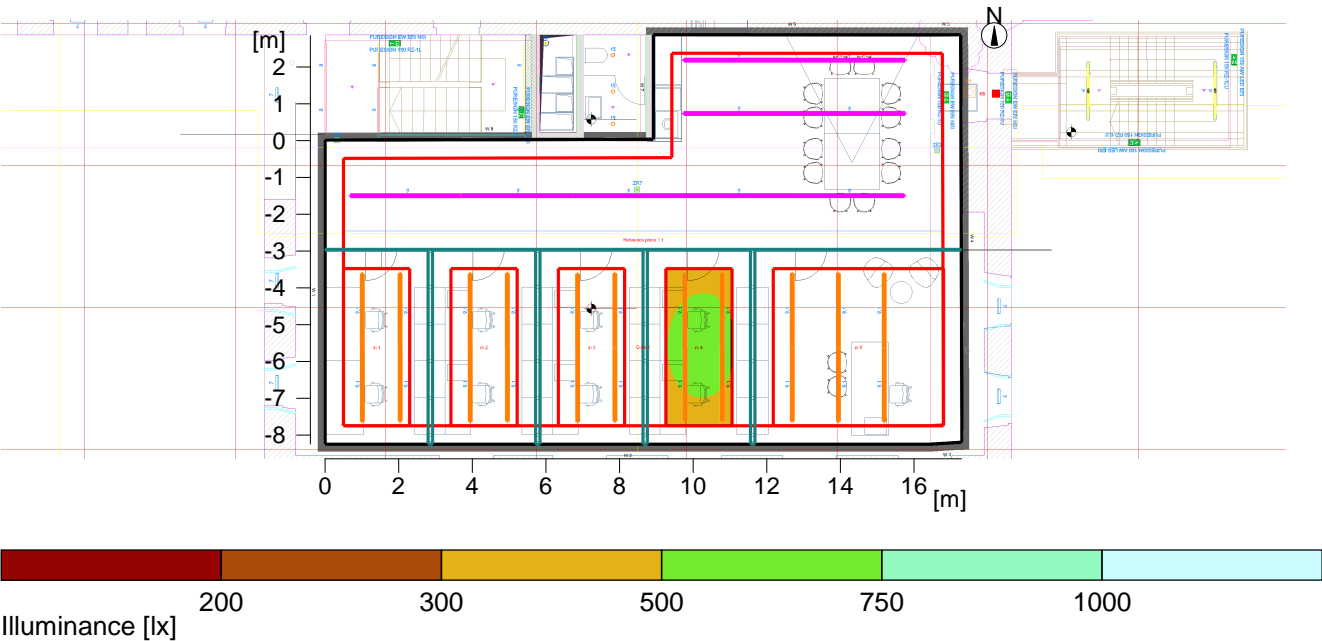
2.2.3 Result overview, Measuring area 3

2	22	Order No.	: 42183924
		Luminaire name	: SLOIN slim SL LED3200-840 L2004 PCO [STD]
		Equipment	: 1 x LED-Z42183924 52 W / 3168 lm

Object : CUKRARNA
Installation : PISARNA
Project number : 426/16
Date : 22.11.2016

2.2 Summary, 01_splošna osvetlitev

2.2.4 Result overview, Measuring area 4



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	3.93 m
Maintenance factor	0.80

Total luminous flux of all lamps	112464 lm
Total power	1794.5 W
Total power per area (166.21 m²)	10.80 W/m²

Illuminance

Average illuminance	Eav	500 lx
Minimum illuminance	Emin	370 lx
Maximum illuminance	Emax	592 lx
Uniformity Uo	Emin/Em	1:1.35 (0.74)
Diversity Ud	Emin/Emax	1:1.6 (0.63)

Type No.\Make

1	9	Zumtobel	
		Order No.	: 42183928
		Luminaire name	: SLOIN slim SL LED4800-840 L3004 PCO [STD]
		Equipment	: 1 x LED-Z42183928 74 W / 4752 lm

Object : CUKRARNA
Installation : PISARNA
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2.2 Summary, 01_splošna osvetlitev

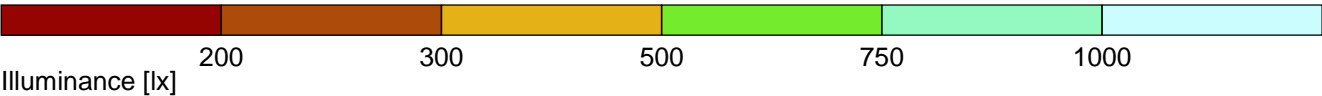
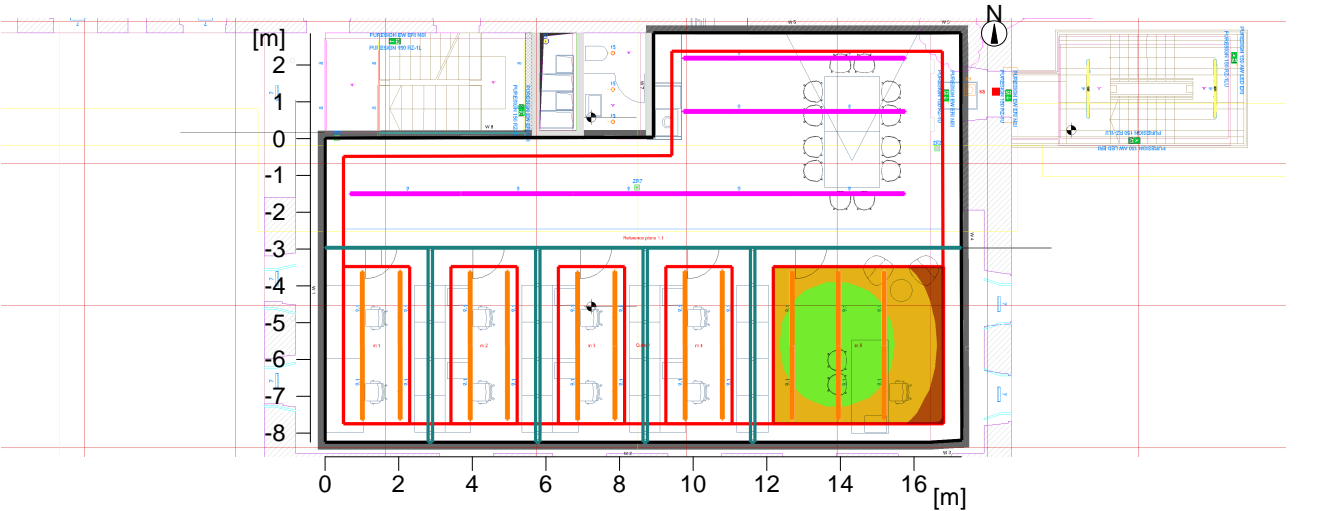
2.2.4 Result overview, Measuring area 4

2	22	Order No.	: 42183924
<hr/>		Luminaire name	: SLOIN slim SL LED3200-840 L2004 PCO [STD]
		Equipment	: 1 x LED-Z42183924 52 W / 3168 lm

Object : CUKRARNA
Installation : PISARNA
Project number : 426/16
Date : 22.11.2016

2.2 Summary, 01_splošna osvetlitev

2.2.5 Result overview, Measuring area 5



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.75 m
Height of luminaire plane	3.93 m
Maintenance factor	0.80

Total luminous flux of all lamps	112464 lm
Total power	1794.5 W
Total power per area (166.21 m²)	10.80 W/m²

Illuminance

Average illuminance	Eav	474 lx
Minimum illuminance	Emin	245 lx
Maximum illuminance	Emax	641 lx
Uniformity Uo	Emin/Em	1:1.94 (0.52)
Diversity Ud	Emin/Emax	1:2.62 (0.38)

Type No.\Make

1	9	Zumtobel	
		Order No.	: 42183928
		Luminaire name	: SLOIN slim SL LED4800-840 L3004 PCO [STD]
		Equipment	: 1 x LED-Z42183928 74 W / 4752 lm

Object : CUKRARNA
Installation : PISARNA
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2.2 Summary, 01_splošna osvetlitev

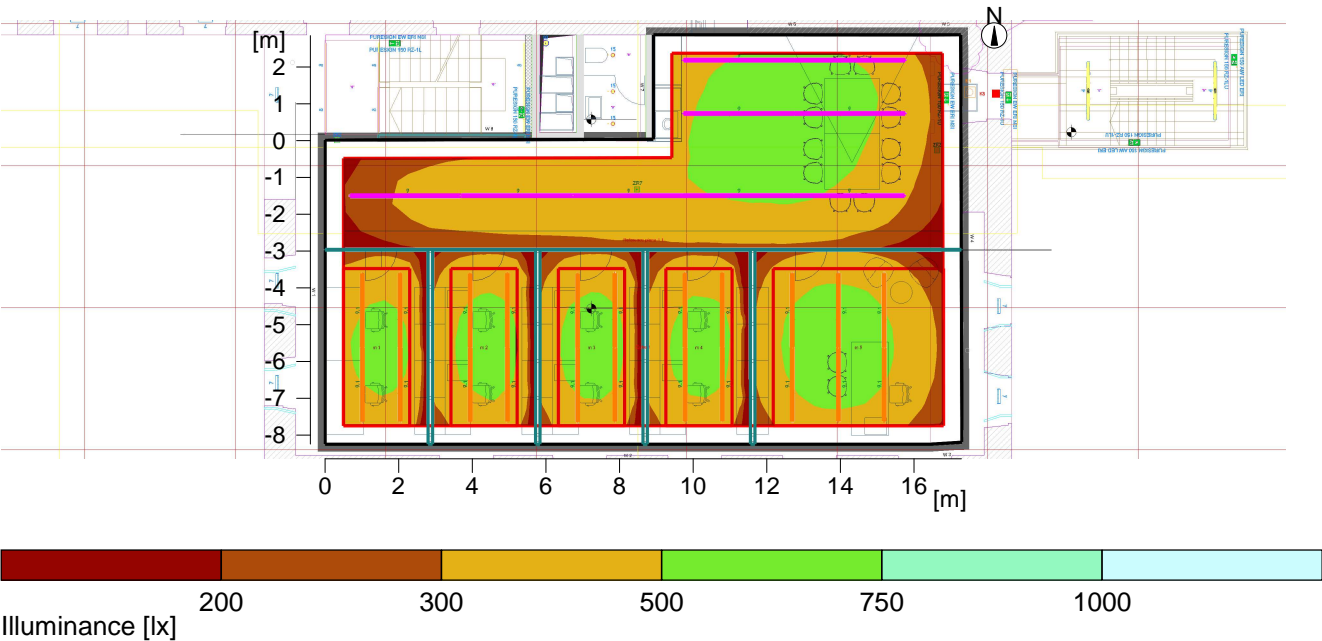
2.2.5 Result overview, Measuring area 5

2	22	Order No.	: 42183924
		Luminaire name	: SLOIN slim SL LED3200-840 L2004 PCO [STD]
		Equipment	: 1 x LED-Z42183924 52 W / 3168 lm

Object : CUKRARNA
Installation : PISARNA
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2.2 Summary, 01_splošna osvetlitev

2.2.6 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height of luminaire plane	3.93 m
Maintenance factor	0.80
Total luminous flux of all lamps	112464 lm
Total power	1794.5 W
Total power per area (166.21 m²)	10.80 W/m² (2.45 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal
Em	440 lx
Emin	219 lx
Emin/Eav (Uo)	0.50
Emin/Emax (Ud)	0.34
Position	0.75 m

Type No.\Make

		Zumtobel	
1	9	Order No.	: 42183928
		Luminaire name	: SLOIN slim SL LED4800-840 L3004 PCO [STD]
		Equipment	: 1 x LED-Z42183928 74 W / 4752 lm

Object : CUKRARNA
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2.2 Summary, 01_splošna osvetlitev

2.2.6 Result overview, Evaluation area 1

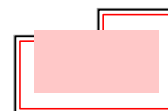
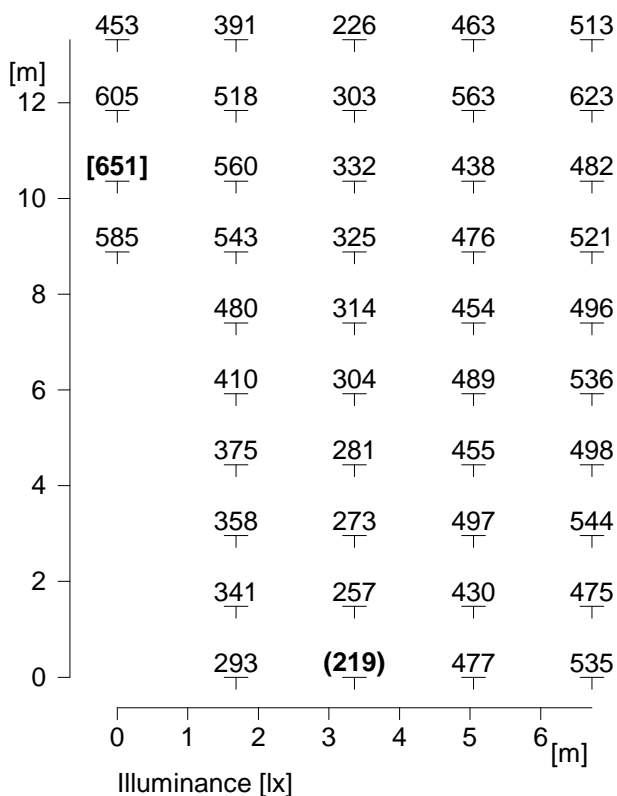
2	22	Order No.	: 42183924
		Luminaire name	: SLOIN slim SL LED3200-840 L2004 PCO [STD]
		Equipment	: 1 x LED-Z42183924 52 W / 3168 lm

Object : CUKRARNA
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2 01_splošna osvetlitev

2.3 Calculation results, 01_splošna osvetlitev

2.3.1 Table, Reference plane 1.1 (E)



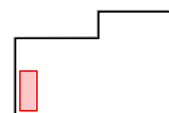
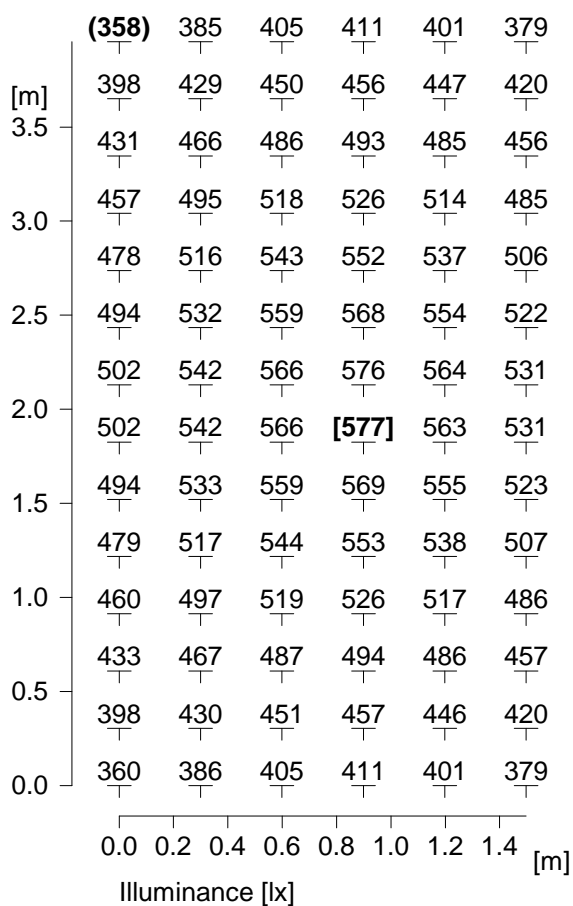
Height of the reference plane

Average illuminance	Eav	: 0.75 m	: 440 lx
Minimum illuminance	Emin	: 219 lx	
Maximum illuminance	Emax	: 651 lx	
Uniformity Uo	Emin/Eav	: 1 : 2.01 (0.50)	
Diversity Ud	Emin/Emax	: 1 : 2.97 (0.34)	

Object : CUKRARNA
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2.3 Calculation results, 01_splošna osvetlitev

2.3.2 Table, Measuring area 1 (E)



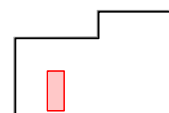
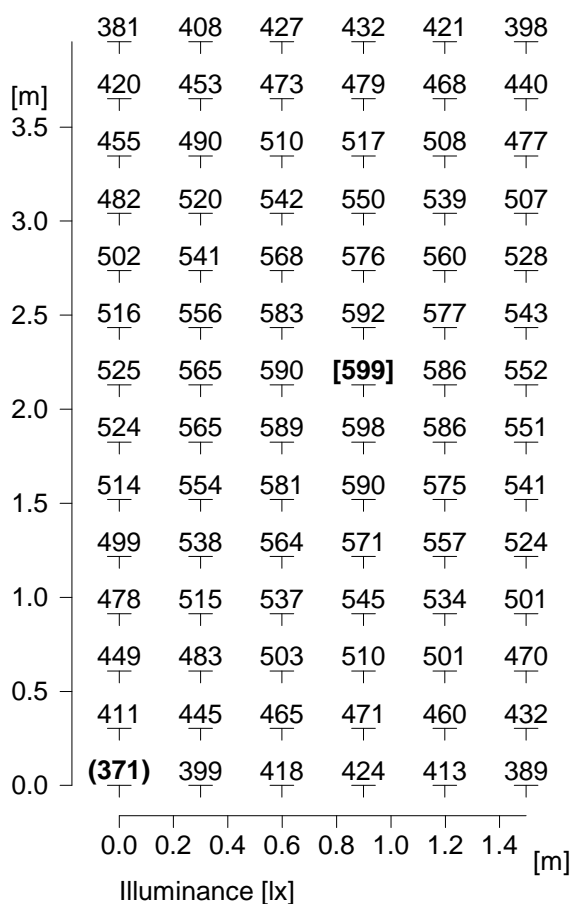
Height of the reference plane

Average illuminance	Eav	: 0.75 m
Minimum illuminance	Emin	: 486 lx
Maximum illuminance	Emax	: 358 lx
Uniformity Uo	Emin/Eav	: 577 lx
Diversity Ud	Emin/Emax	: 1 : 1.36 (0.74)
		: 1 : 1.61 (0.62)

Object : CUKRARNA
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2.3 Calculation results, 01_splošna osvetlitev

2.3.3 Table, Measuring area 2 (E)



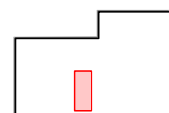
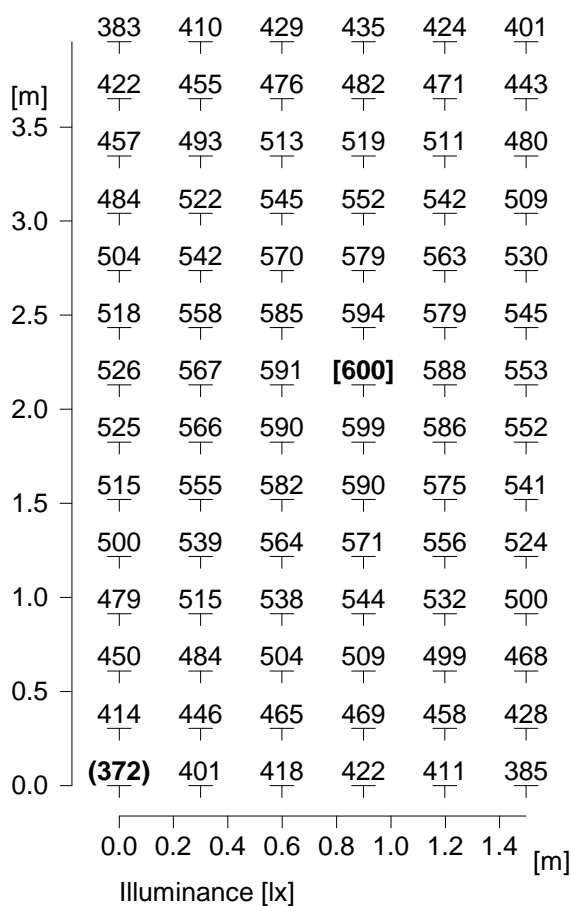
Height of the reference plane

Average illuminance	Eav	: 0.75 m
Minimum illuminance	Emin	: 506 lx
Maximum illuminance	Emax	: 371 lx
Uniformity Uo	Emin/Eav	: 599 lx
Diversity Ud	Emin/Emax	: 1 : 1.36 (0.73)
		: 1 : 1.62 (0.62)

Object : CUKRARNA
Installation : PISARNA
Project number : 426/16
Date : 22.11.2016

2.3 Calculation results, 01_splošna osvetlitev

2.3.4 Table, Measuring area 3 (E)



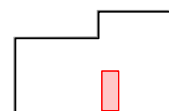
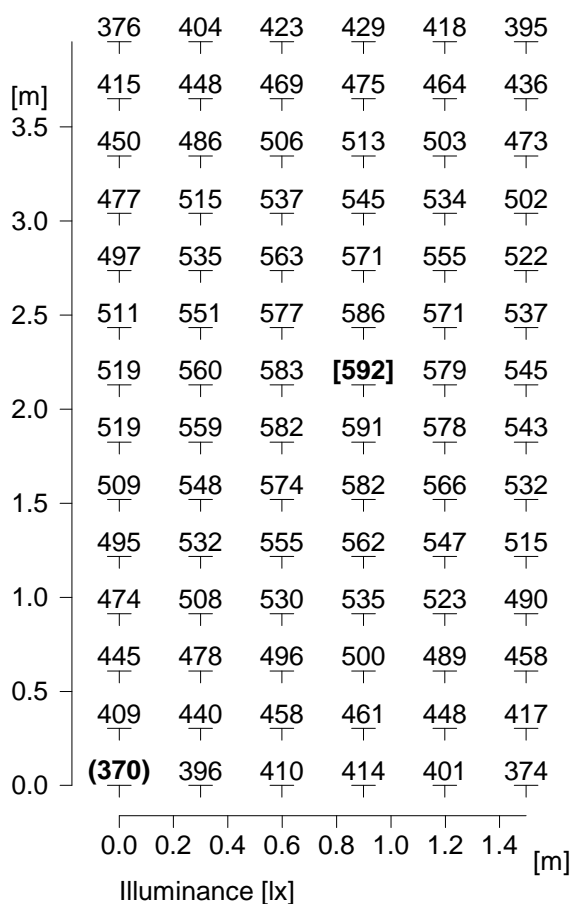
Height of the reference plane

Average illuminance	Eav	: 0.75 m
Minimum illuminance	Emin	: 507 lx
Maximum illuminance	Emax	: 372 lx
Uniformity Uo	Emin/Eav	: 600 lx
Diversity Ud	Emin/Emax	: 1 : 1.36 (0.73)
		: 1 : 1.61 (0.62)

Object : CUKRARNA
 Installation : PISARNA
 Project number : 426/16
 Date : 22.11.2016

2.3 Calculation results, 01_splošna osvetlitev

2.3.5 Table, Measuring area 4 (E)



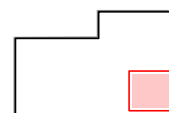
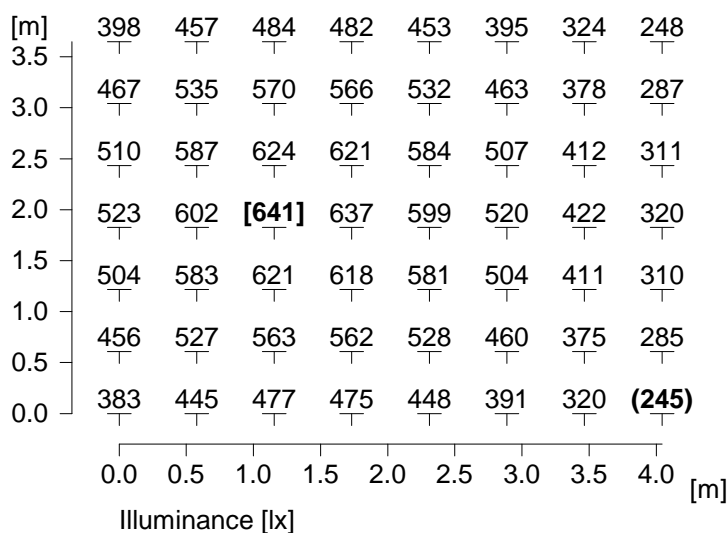
Height of the reference plane

Average illuminance	Eav	: 0.75 m
Minimum illuminance	Emin	: 500 lx
Maximum illuminance	Emax	: 370 lx
Uniformity Uo	Emin/Eav	: 592 lx
Diversity Ud	Emin/Emax	: 1 : 1.35 (0.74)
		: 1 : 1.60 (0.63)

Object : CUKRARNA
Installation : PISARNA
Project number : 426/16
Date : 22.11.2016

2.3 Calculation results, 01_splošna osvetlitev

2.3.6 Table, Measuring area 5 (E)



Height of the reference plane

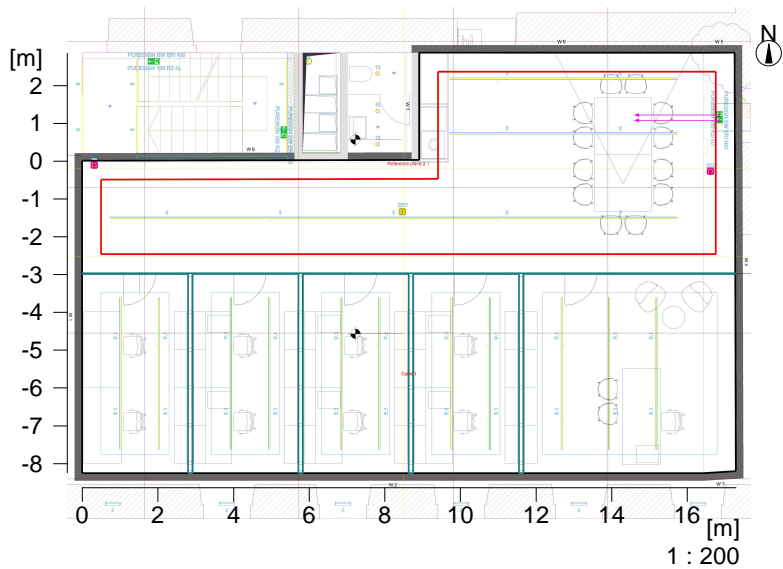
Average illuminance	Eav	: 0.75 m
Minimum illuminance	Emin	: 474 lx
Maximum illuminance	Emax	: 245 lx
Uniformity Uo	Emin/Eav	: 641 lx
Diversity Ud	Emin/Emax	: 1 : 1.94 (0.52)
		: 1 : 2.62 (0.38)

Object : CUKRARNA
Installation : PISARNA
Project number : 426/16
Date : 22.11.2016

3 02_varnostna osvetlitev

3.1 Description, 02_varnostna osvetlitev

3.1.1 Floor plan



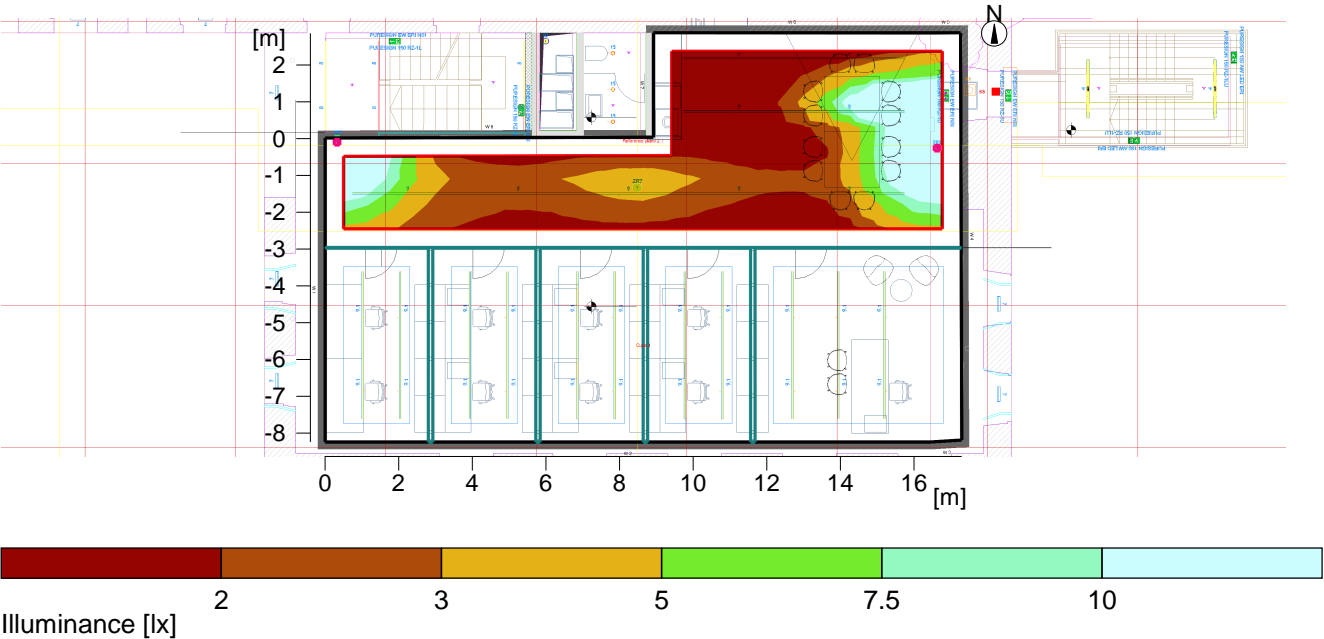
Wall	x	y	Length	Reflectance
1	63.24 m	13.29 m	8.24 m	50.0 %
2	79.68 m	13.29 m	16.44 m	50.0 %
3	80.53 m	13.34 m	0.85 m	50.0 %
4	80.50 m	24.38 m	11.04 m	50.0 %
5	79.68 m	24.38 m	0.82 m	50.0 %
6	72.16 m	24.38 m	7.52 m	50.0 %
7	72.16 m	21.55 m	2.83 m	50.0 %
8	63.24 m	21.53 m	8.91 m	50.0 %
Floor				20.0 %
Ceiling				70.0 %
Room height		4.00 m		
Height of reference plane		0.03 m		

Object : CUKRARNA
Installation : PISARNA
Project number : 426/16
Date : 22.11.2016

3 02_varnostna osvetlitev

3.2 Summary, 02_varnostna osvetlitev

3.2.1 Result overview, Evaluation area 2



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total luminous flux of all lamps	366 lm
Total power	10.0 W
Total power per area (52.95 m²)	0.19 W/m² (4.11 W/m²/100lx)

Evaluation area 2

Reference plane 2.1

	Horizontal
Em	4.6 lx
Emin	0.53 lx
Emin/Eav (Uo)	0.11
Emin/Emax (Ud)	0.02
Position	0.03 m

Type No.\Make


3	1	Zumtobel
		Order No. : 42180388
		Luminaire name : RESCLITE C ESCAPE AD NSI WH [STD]
		Equipment : 1 x LED-Z37 5 W / 173 lm

Object : CUKRARNA
Installation : PISARNA
Project number : 426/16
Date : 22.11.2016

3 02_varnostna osvetlitev

3.2 Summary, 02_varnostna osvetlitev

3.2.1 Result overview, Evaluation area 2

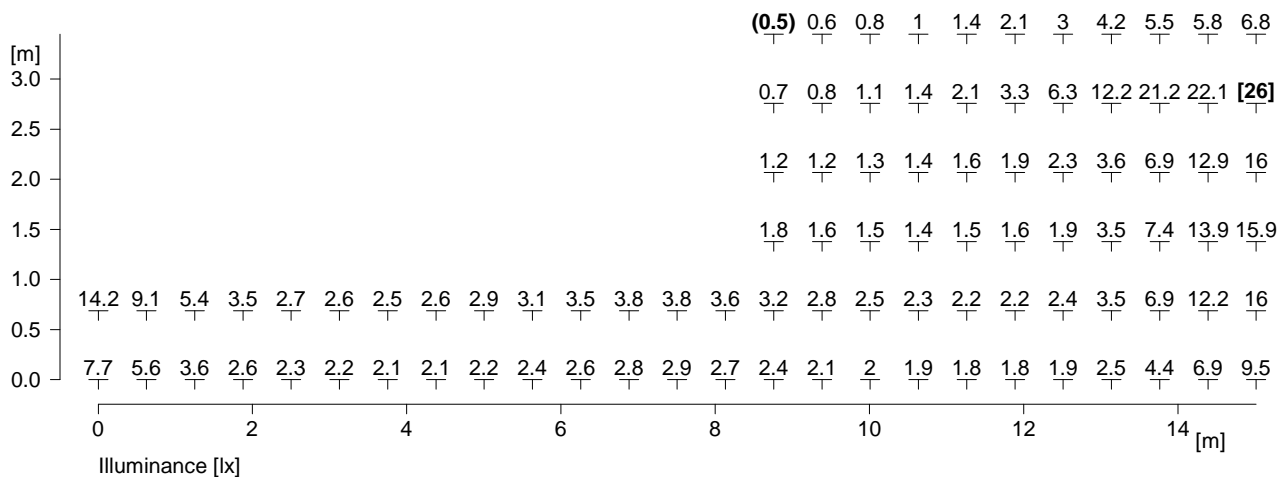
4	1	Order No.	: 42180420
		Luminaire name	: RESCLITE C SPOT AD NSI WH [STD]
		Equipment	: 1 x LED-Z644 5 W / 193 lm

Object : CUKRARNA
Installation : PISARNA
Project number : 426/16
Date : 22.11.2016

3 02_varnostna osvetlitev

3.3 Calculation results, 02_varnostna osvetlitev

3.3.1 Table, Reference plane 2.1 (E)



Height of the reference plane

Average illuminance	Eav	: 0.03 m
Minimum illuminance	Emin	: 4.6 lx
Maximum illuminance	Emax	: 0.5 lx
Uniformity Uo	Emin/Eav	: 26 lx
Diversity Ud	Emin/Emax	: 1 : 8.72 (0.11)
		: 1 : 49.35 (0.02)