

Potrošački centar

Prostor : Objekt 1

Broj projekta : 20719_2021

Stranka : GPZ

Projektirao : Elektrovina Plus

Datum : 26.09.2023

Slijedeće vrijednosti temelje se na egzaktnom izračunu provedenom na kalibriranim žaruljama, svjetiljkama i njihovom zajedničkom radu. U praksi su moguća manja odstupanja. Ne postoje nikakve garancije na datoteke svjetiljki. Proizvođač ne preuzima nikakvu odgovornost za nastalu štetu odnosno štetu prouzročenu korisniku ili trećoj osobi.

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1 Podaci o svjetiljci

1.1 Zumtobel, TECTON MIREL LED3700-830 L1000 ... (42185323)

1.1.1 Stranica s podacima

Proizvođač: Zumtobel

42185323 surface mounted and suspended TECTON MIREL LED3700-830 L1000 LDO WH [STD]

Linear, energy-efficient TECTON MIREL LED continuous row luminaire made of roll-formed sheet steel in polyester lacquer finish, white. Luminaire input power: 26.4 W, Slave luminaire for DALI control (DALI only) with LED converter. LED service life lasts 50000 h before luminous flux is reduced to 90% of the initial value. Chromaticity tolerance (initial MacAdam): 3. Luminaire efficacy: 139 lm/W. Luminaire luminous flux: 3660 lm. Colour rendering Ra > 80, colour temperature 3000 K. LED continuous row luminaire with 4 highly efficient mid-power LEDs per lens segment. Light is guided via the reflector- the lens combination creates a unique continuous row design with photometric benefits such as very low UGR values with minimum light emission surface. Lens reflector enables UGR <19. All-in-one solution: Batten luminaire, lamp and reflector are combined in a single product. Base support of LED continuous-row luminaire of sheet steel in polyester lacquer finish, white. 100% flexible, tool-free mechanical and electrical installation using CLIX-technology by means of two side-mounted rotary levers on the TECTON trunking. No ultraviolet or infrared radiation. Impact strength: IK03. ambient temperature: -20°C to +30°C. Luminaire wired with halogen-free leads. Dimensions: 1000 x 60 x 85 mm weight: 1.5 kg

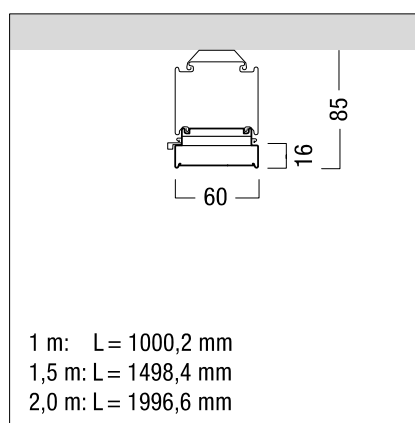
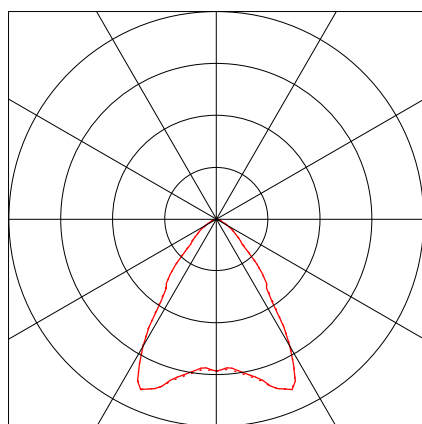
Podaci o svjetiljci

Apsolutna fotometrija
Efikasnost svjetiljki : 138.64 lm/W
Klasifikacija : A60 □ 100.0% ↑ 0.0%
CIE Flux Codes : 81 97 100 100 100
UGR 4H 8H : 18.5 / 18.6
Snaga : 26.4 W
Svjetlosni tok : 3660 lm

Opremljeno žaruljama

Broj : 1
Opis : LED-Z42185323
Boja : 3000
Reprodukcija boje : 80

Dimenzije : 1000 mm x 60 mm x 85 mm



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1 Podaci o svjetiljci

1.2 Zumtobel, LINARIA LED1500-830 L608 PM LDE... (42184115)

1.2.1 Stranica s podacima

Proizvođač: Zumtobel

42184115 surface mounted LINARIA LED1500-830 L608 PM LDE WH [STD]

LED single batten luminaire for surface-mounting and suspending. DALI-controllable luminaire with integrated SELV converter. Primary and secondary optic for perfect dispersion of LED points and simultaneous indirect component for ceiling illumination. Energy-efficient LED single batten luminaire makes environmental and financial sense. Luminaire input power: 12.3 W; LED service life lasts 100000 h before luminous flux is reduced to 85% of the initial value. Chromaticity tolerance (initial MacAdam): 4. Luminaire luminous flux: 1510 lm, Luminaire efficacy: 123 lm/W. Colour rendering Ra > 80, colour temperature 3000 K. Single batten luminaire of high quality aluminium extrusion, powder coated in white. Luminaire wired with halogen-free leads. For pendant mounting please order the following separately per luminaire: 1 LINARIA ceiling rose, 1 transparent supply cable and 2 cord suspensions. Dimensions: 608 x 30 x 67 mm. Weight: 0.9 kg

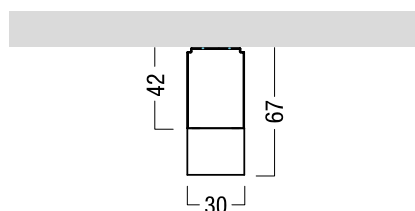
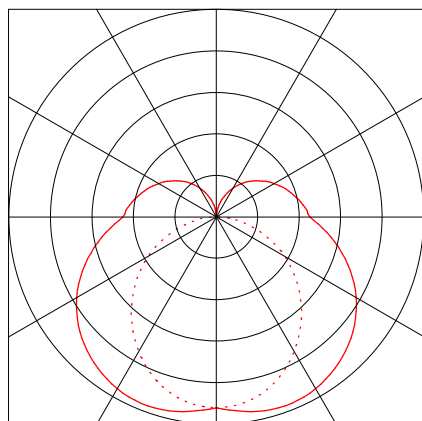
Podaci o svjetiljci

Apsolutna fotometrija
Efikasnost svjetiljki : 122.76 lm/W
Klasifikacija : B31 □ 76.7% ↑ 23.3%
CIE Flux Codes : 36 65 86 77 100
UGR 4H 8H : 25.6 / 22.4
Snaga : 12.3 W
Svjetlosni tok : 1510 lm

Opremljeno žaruljama

Broj : 1
Opis : LED-Z42184115
Boja : 3000
Reprodukcija boje : 80

Dimenzije : 608 mm x 30 mm x 67 mm



L= 608/908/1208/1508/1808 mm

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1 Podaci o svjetiljci

1.3 Zumtobel, TECTON MIREL LED5500-830 L1500 ... (42185324)

1.3.1 Stranica s podacima

Proizvođač: Zumtobel

42185324 surface mounted and suspended TECTON MIREL LED5500-830 L1500 LDO WH [STD]

Linear, energy-efficient TECTON MIREL LED continuous row luminaire made of roll-formed sheet steel in polyester lacquer finish, white. Luminaire input power: 38.3 W, Slave luminaire for DALI control (DALI only) with LED converter. LED service life lasts 50000 h before luminous flux is reduced to 90% of the initial value. Chromaticity tolerance (initial MacAdam): 3. Luminaire efficacy: 143 lm/W. Luminaire luminous flux: 5490 lm. Colour rendering Ra > 80, colour temperature 3000 K. LED continuous row luminaire with 4 highly efficient mid-power LEDs per lens segment. Light is guided via the reflector- the lens combination creates a unique continuous row design with photometric benefits such as very low UGR values with minimum light emission surface. Lens reflector enables UGR <19 and luminance of <3000 cd/m². All-in-one solution: Batten luminaire, lamp and reflector are combined in a single product. Base support of LED continuous-row luminaire of sheet steel in polyester lacquer finish, white. 100% flexible, tool-free mechanical and electrical installation using CLIX-technology by means of two side-mounted rotary levers on the TECTON trunking. No ultraviolet or infrared radiation. Impact strength: IK03. ambient temperature: -20°C to +30°C. Luminaire wired with halogen-free leads. Dimensions: 1498 x 60 x 85 mm weight: 2.2 kg

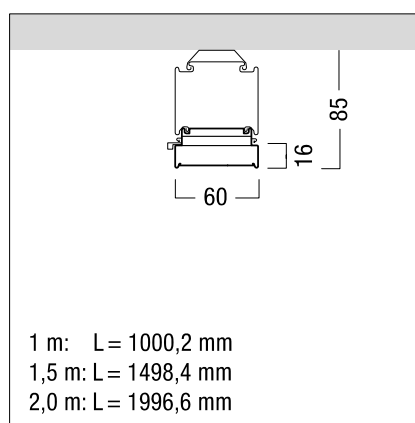
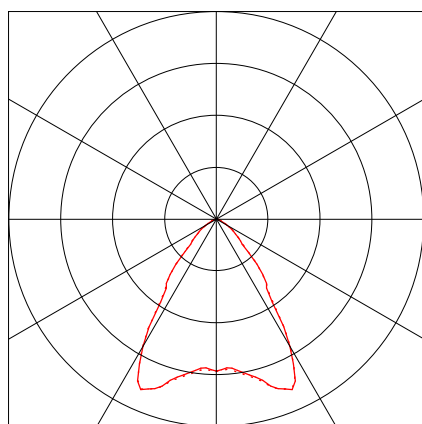
Podaci o svjetiljci

Apsolutna fotometrija
Efikasnost svjetiljki : 143.34 lm/W
Klasifikacija : A60 □ 100.0% ↑ 0.0%
CIE Flux Codes : 81 97 100 100 100
UGR 4H 8H : 18.5 / 18.6
Snaga : 38.3 W
Svjetlosni tok : 5490 lm

Opremljeno žaruljama

Broj : 1
Opis : LED-Z42185324
Boja : 3000
Reprodukcija boje : 80

Dimenzije : 1498 mm x 60 mm x 85 mm



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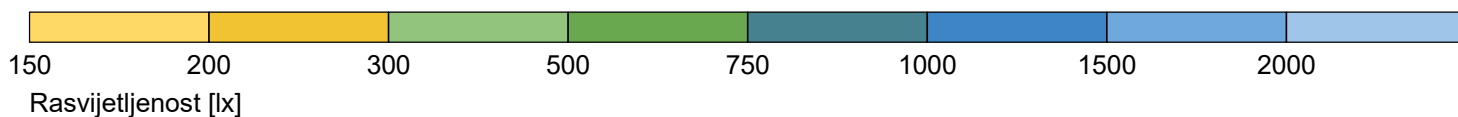
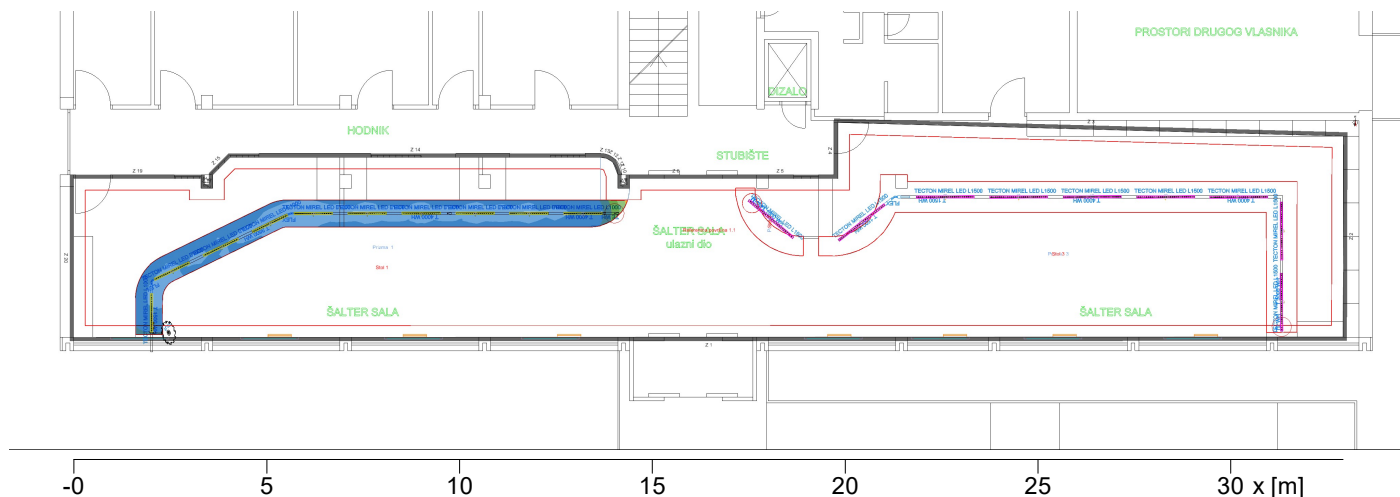
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1 Prostor 1

1.1 Sažetak, Prostor 1

1.1.1 Pregled rezultata, Stol 1



Općenito

Upotrijebljeni računski algoritam
 Visina mjerne površine
 Faktor održavanja

Svjetiljke s dir./indirektnom raspodjelom
 1.25 m
 0.80

Ukupni svjetlosni tok svih žarulja
 Ukupna snaga
 Ukupna snaga po površini (157.00 m²)

96580 lm
 694.8 W
 4.43 W/m²

Rasvjetljenosti

Srednja rasvjetljenost	\bar{E}_m	1460 lx
Minimalna rasvjetljenost	E_{min}	363 lx
Maksimalna rasvjetljenost	E_{max}	1860 lx
Jednolikost U_o	E_{min}/\bar{E}_m	1:4.04 (0.25)
Jednolikost U_d	E_{min}/E_{max}	1:5.13 (0.19)

Tip Kom. Proizvod

Zumtobel		
1	10 x	Tipska oznaka : 42185323
		Naziv svjetiljke : TECTON MIREL LED3700-830 L1000 LDO WH [STD]
		Žarulje : 1 x LED-Z42185323 26 W / 3660 lm
<hr/>		
2	7 x	Tipska oznaka : 42184115
		Naziv svjetiljke : LINARIA LED1500-830 L608 PM LDE WH [STD]
		Žarulje : 1 x LED-Z42184115 12 W / 1510 lm

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Objekt : Potrošački centar
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1 Prostor 1

1.1 Sažetak, Prostor 1

1.1.1 Pregled rezultata, Stol 1

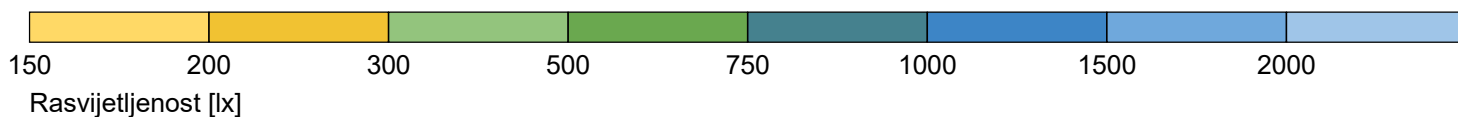
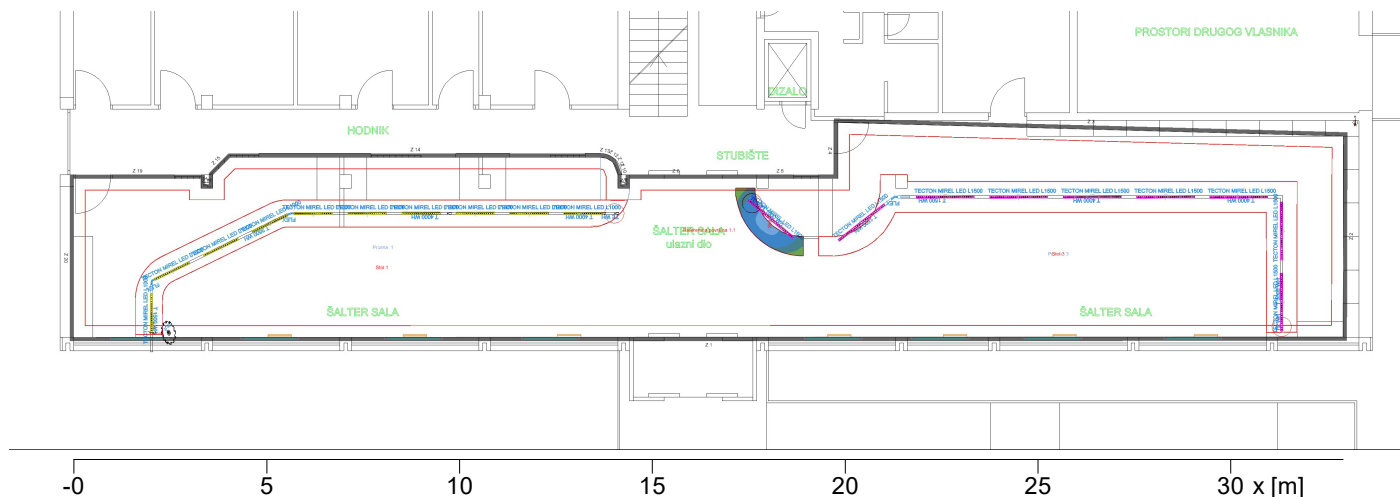
3	9 x	Tipska oznaka	: 42185324
		Naziv svjetiljke	: TECTON MIREL LED5500-830 L1500 LDO WH [STD]
		Žarulje	: 1 x LED-Z42185324 38 W / 5490 lm

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1.1 Sažetak, Prostor 1

1.1.2 Pregled rezultata, Stol 2



Općenito

Upotrijebljeni računski algoritam
 Visina mjerne površine
 Faktor održavanja

Svjetiljke s dir./indirektnom raspodjelom
 1.25 m
 0.80

Ukupni svjetlosni tok svih žarulja
 Ukupna snaga
 Ukupna snaga po površini (157.00 m²)

96580 lm
 694.8 W
 4.43 W/m²

Rasvjetljenosti

Srednja rasvjetljenost	\bar{E}_m	1150 lx
Minimalna rasvjetljenost	E_{min}	595 lx
Maksimalna rasvjetljenost	E_{max}	1730 lx
Jednolikost U_o	E_{min}/\bar{E}_m	1:1.94 (0.52)
Jednolikost U_d	E_{min}/E_{max}	1:2.9 (0.34)

Tip Kom. Proizvod

Zumtobel		
1	10 x	Tipska oznaka : 42185323
		Naziv svjetiljke : TECTON MIREL LED3700-830 L1000 LDO WH [STD]
		Žarulje : 1 x LED-Z42185323 26 W / 3660 lm
<hr/>		
2	7 x	Tipska oznaka : 42184115
		Naziv svjetiljke : LINARIA LED1500-830 L608 PM LDE WH [STD]
		Žarulje : 1 x LED-Z42184115 12 W / 1510 lm

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1.1 Sažetak, Prostor 1

1.1.2 Pregled rezultata, Stol 2

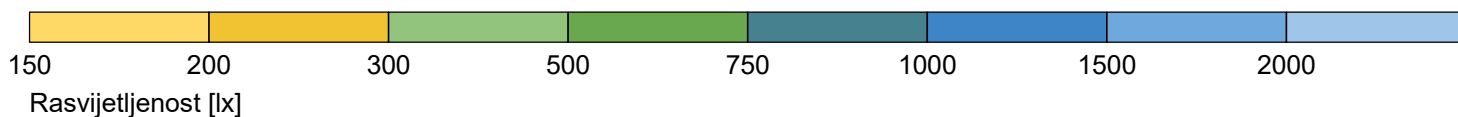
3	9 x	Tipska oznaka	: 42185324
		Naziv svjetiljke	: TECTON MIREL LED5500-830 L1500 LDO WH [STD]
		Žarulje	: 1 x LED-Z42185324 38 W / 5490 lm

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1.1 Sažetak, Prostor 1

1.1.3 Pregled rezultata, Stol 3



Općenito

Upotrijebljeni računski algoritam
 Visina mjerne površine
 Faktor održavanja

Svjetiljke s dir./indirektnom raspodjelom
 1.25 m
 0.80



Ukupni svjetlosni tok svih žarulja
 Ukupna snaga
 Ukupna snaga po površini (157.00 m²)

96580 lm
 694.8 W
 4.43 W/m²

Rasvjetljenosti

Srednja rasvjetljenost	\bar{E}_m	1570 lx
Minimalna rasvjetljenost	E_{min}	470 lx
Maksimalna rasvjetljenost	E_{max}	2060 lx
Jednolikost U_o	E_{min}/\bar{E}_m	1:3.35 (0.3)
Jednolikost U_d	E_{min}/E_{max}	1:4.39 (0.23)

Tip Kom. Proizvod

		Zumtobel	
1	10 x	Tipaska oznaka	: 42185323
		Naziv svjetiljke	: TECTON MIREL LED3700-830 L1000 LDO WH [STD]
		Žarulje	: 1 x LED-Z42185323 26 W / 3660 lm
2	7 x	Tipaska oznaka	: 42184115
		Naziv svjetiljke	: LINARIA LED1500-830 L608 PM LDE WH [STD]
		Žarulje	: 1 x LED-Z42184115 12 W / 1510 lm

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1.1 Sažetak, Prostor 1

1.1.3 Pregled rezultata, Stol 3

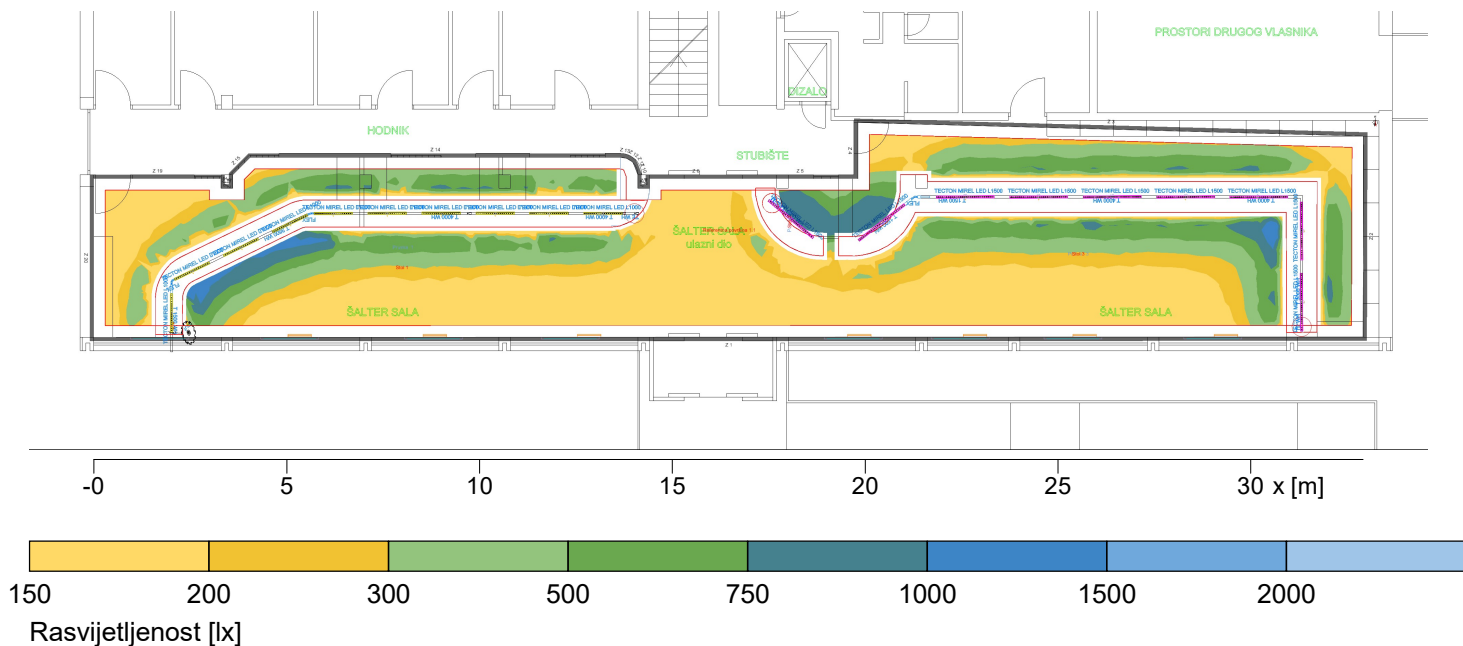
3	9 x	Tipska oznaka	: 42185324
		Naziv svjetiljke	: TECTON MIREL LED5500-830 L1500 LDO WH [STD]
		Žarulje	: 1 x LED-Z42185324 38 W / 5490 lm

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1.1 Sažetak, Prostor 1

1.1.4 Pregled rezultata, Površina izračuna 1



Općenito

Upotrijebljeni računski algoritam
 Faktor održavanja

Svjetiljke s dir./indirektnom raspodjelom
 0.80

Ukupni svjetlosni tok svih žarulja
 Ukupna snaga
 Ukupna snaga po površini (157.00 m²)

96580.00 lm
 694.8 W
 4.43 W/m² (1.45 W/m²/100lx)

Površina izračuna 1

Referentna površina 1.1

Horizontalno
 \bar{E}_m 305 lx
 E_{min} 36 lx
 $E_{min}/\bar{E}_m (U_o)$ 0.12
 $E_{min}/E_{max} (U_d)$ 0.03
 E_z/E_h
 Pozicija 0.75 m (rot: 0°/0.01°)
 RUG (3.5H 12.0H) <=25.8

cilindrično
 130 lx
 30 lx
 0.23
 0.33
 0.75 m (rot: 0°/0.01°)

Svjetiljka:
 (LINARIA LED1500-830 L608 PM LDE WH [STD], 42184115)

Hints:
 - At least one of the room dimensions has been limited to 12H.

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1.1 Sažetak, Prostor 1

1.1.4 Pregled rezultata, Površina izračuna 1

Tip	Kom.	Proizvod
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		Zumtobel
1	10 x	Tipska oznaka : 42185323
		Naziv svjetiljke : TECTON MIREL LED3700-830 L1000 LDO WH [STD]
		Žarulje : 1 x LED-Z42185323 26 W / 3660 lm
2	7 x	Tipska oznaka : 42184115
		Naziv svjetiljke : LINARIA LED1500-830 L608 PM LDE WH [STD]
		Žarulje : 1 x LED-Z42184115 12 W / 1510 lm
3	9 x	Tipska oznaka : 42185324
		Naziv svjetiljke : TECTON MIREL LED5500-830 L1500 LDO WH [STD]
		Žarulje : 1 x LED-Z42185324 38 W / 5490 lm

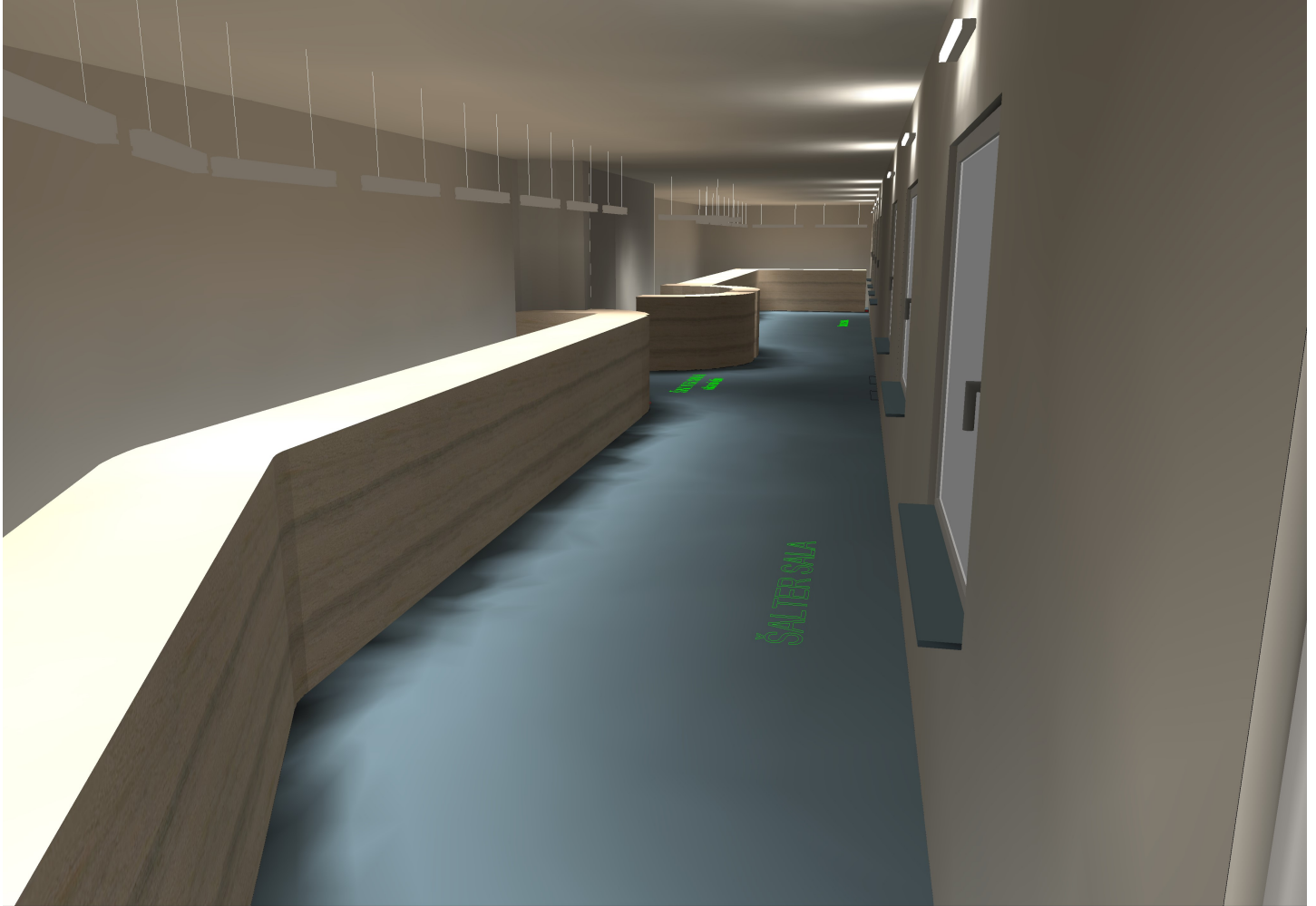
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1 Prostor 1

1.2 Rezultati izračuna, Prostor 1

1.2.1 3D sjajnost, Pogled 1



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