

RASVJETA PRODAJA-PRIMJER

Potrebno je napraviti projekt rasvjete za Prodajno Izložbeni prostor . Rasvjeta treba biti LED radi uštede i učinkovitosti.

Projekt: RASVJETA - PRODAJNI PROSTOR
Građevina:
Lokacija: ZAGREB
Investitor:
Faza: IDEJNI

Date: 12.12.2016
Operator: A.Vrdoljak i.e.

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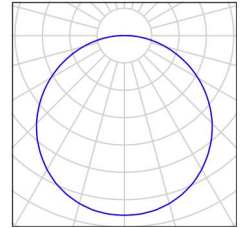
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Izložbeno prodajni salon / Luminaire parts list

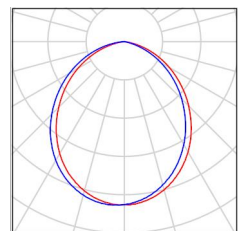
36 Pieces EcoVision LED panel 32214
Article No.:
Luminous flux (Luminaire): 3002 lm
Luminous flux (Lamps): 3000 lm
Luminaire Wattage: 40.0 W
Luminaire classification according to CIE: 100
CIE flux code: 45 76 94 100 100
Fitting: 1 x LED (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.



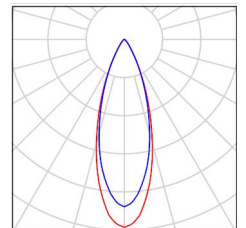
40 Pieces EcoVision 25090 LED DL 20W, 4000K, ugradbeni
Article No.: 25090
Luminous flux (Luminaire): 1638 lm
Luminous flux (Lamps): 1638 lm
Luminaire Wattage: 21.3 W
Luminaire classification according to CIE: 100
CIE flux code: 54 85 98 100 100
Fitting: 1 x User defined (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.



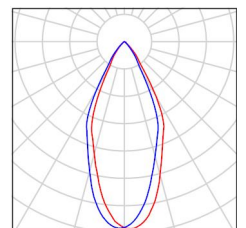
8 Pieces Verbatim 52308 LED GU10 6W-64W D 4000K 35D 450lm
Article No.:
Luminous flux (Luminaire): 508 lm
Luminous flux (Lamps): 525 lm
Luminaire Wattage: 5.6 W
Luminaire classification according to CIE: 100
CIE flux code: 94 98 100 100 97
Fitting: 1 x 52308 Verbatim LED GU10 6W-64W D 4000K 35D 450lm (Correction Factor 1.000).

See our luminaire catalog for an image of the luminaire.



9 Pieces Verbatim LED TRACKLIGHT 52437
Article No.: LED TRACKLIGHT
Luminous flux (Luminaire): 1927 lm
Luminous flux (Lamps): 1928 lm
Luminaire Wattage: 24.0 W
Luminaire classification according to CIE: 100
CIE flux code: 95 100 100 100 100
Fitting: 1 x 2530 (Correction Factor 1.000).

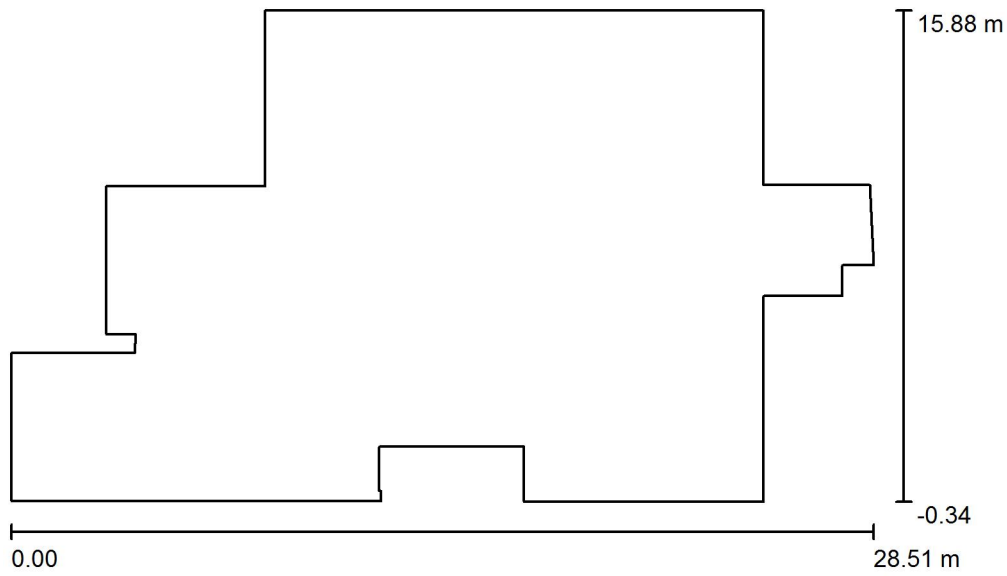
See our luminaire catalog for an image of the luminaire.



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Izložbeno prodajni salon / Floor plan



Scale 1 : 250

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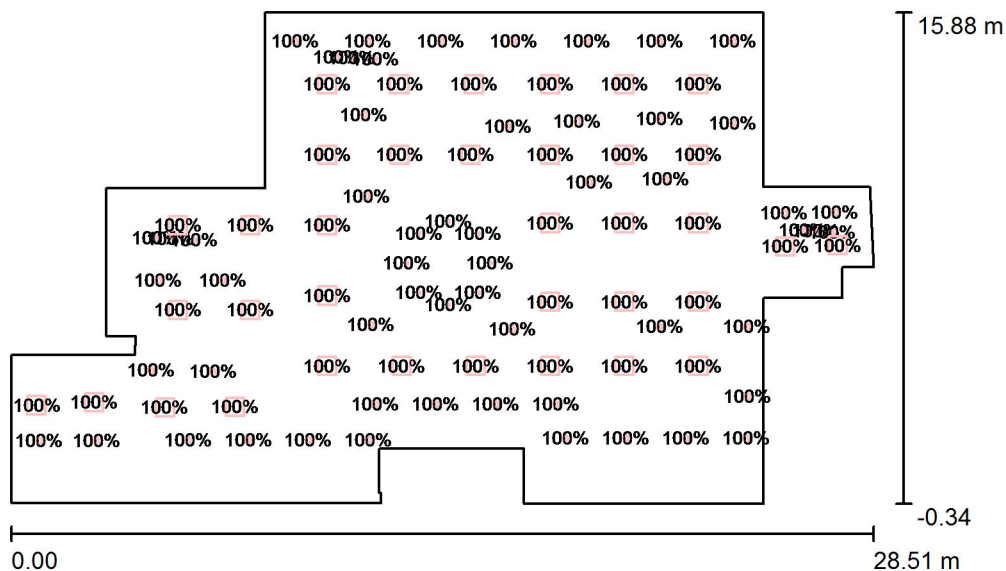
Izložbeno prodajni salon / Raytrace preview 1



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Izložbeno prodajni salon / Sve lampe / Planning data



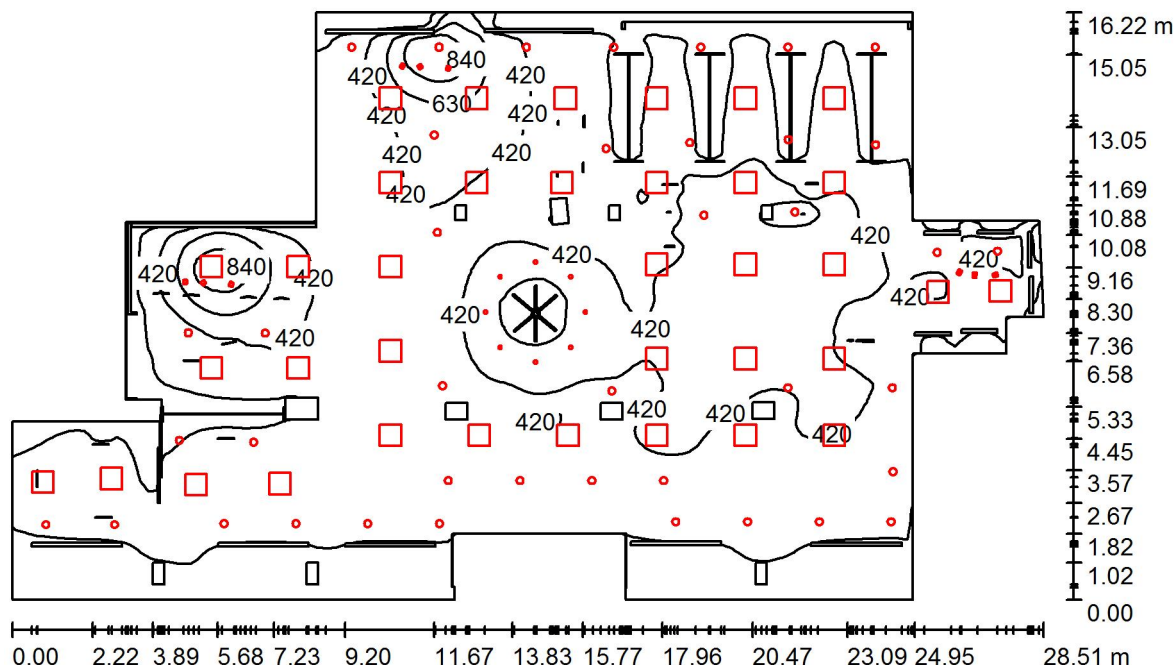
Scale 1 : 250

No.	Control group (Luminaire)	Dimming values (Total) [%]
1	PAneli i DL (EcoVision LED panel 32214)	100
2	PAneli i DL (EcoVision 25090 LED DL 20W, 4000K, ugradbeni)	100
3	PAneli i DL (Verbatim 52308 LED GU10 6W-64W D 4000K 35D 450lm)	100
4	šinske (Verbatim LED TRACKLIGHT 52437)	100
	All other luminaires	0

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Izložbeno prodajni salon / Sve lampe / Summary



Height of Room: 4.200 m, Maintenance factor: 0.80

Values in Lux, Scale 1:209

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	341	21	1022	0.061
Floor	39	255	10	744	0.040
Ceiling	70	93	44	262	0.472
Walls (21)	61	138	7.27	950	/

Workplane:

Height: 0.850 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: - , Ceiling / Working Plane: - .

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	36	EcoVision LED panel 32214 (1.000)	3002	3000	40.0
2	40	EcoVision 25090 LED DL 20W, 4000K, ugradbeni (1.000)	1638	1638	21.3
3	8	Verbatim 52308 LED GU10 6W-64W D 4000K 35D 450lm (1.000)	508	525	5.6
4	9	Verbatim LED TRACKLIGHT 52437 (1.000)	1927	1928	24.0

Total: 195022 Total: 195069 2552.8

Specific connected load: $7.50 \text{ W/m}^2 = 2.20 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 340.22 m^2)

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Izložbeno prodajni salon / Sve lampe / Photometric Results

Total Luminous Flux: 195022 lm
Total Load: 2552.8 W
Maintenance factor: 0.80
Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Workplane	276	65	341	/	/
Floor	199	56	255	39	32
Ceiling	0.26	93	93	70	21
Wall 1	48	42	90	61	17
Wall 2	21	33	53	61	10
Wall 5	108	92	200	61	39
Wall 6	95	105	201	61	39
Wall 6_1	27	40	68	61	13
Wall 7	43	53	96	61	19
Wall 8	131	77	208	61	40
Wall 9	173	93	267	61	52
Wall 10	92	110	201	61	39
Wall 11	119	127	245	61	48
Wall 12	202	103	305	61	59
Wall 13	169	103	272	61	53
Wall 14	108	43	152	61	29
Wall 15	65	41	106	61	20
Wall 16	107	86	193	61	37
Wall 17	6.04	21	27	61	5.17
Wall 18	15	26	41	61	7.90
Wall 19	46	55	101	61	20
Wall 20	81	38	119	61	23
Wall 21	90	52	142	61	28
Wall 22	102	47	148	61	29

Uniformity on the working plane

u_0 : 0.061 (1:16)

E_{\min} / E_{\max} : 0.020 (1:49)

Illuminance Quotient (according to LG7): Walls / Working Plane: - , Ceiling / Working Plane: - .

Specific connected load: $7.50 \text{ W/m}^2 = 2.20 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 340.22 m^2)

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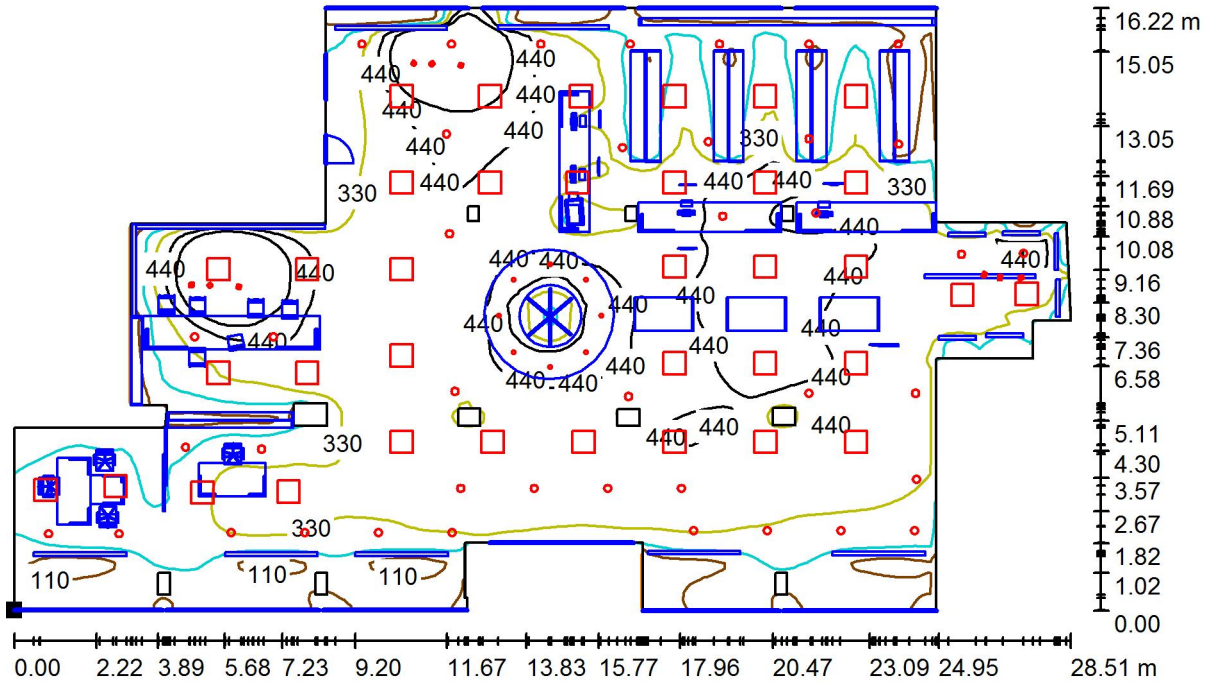
Izložbeno prodajni salon / Sve lampe / 3D Rendering



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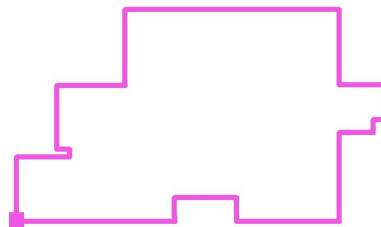
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Izložbeno prodajni salon / Sve lampe / Workplane / Isolines (E)



Values in Lux, Scale 1 : 204

Position of surface in room:
Marked point:
(0.000 m, -0.340 m, 0.850 m)



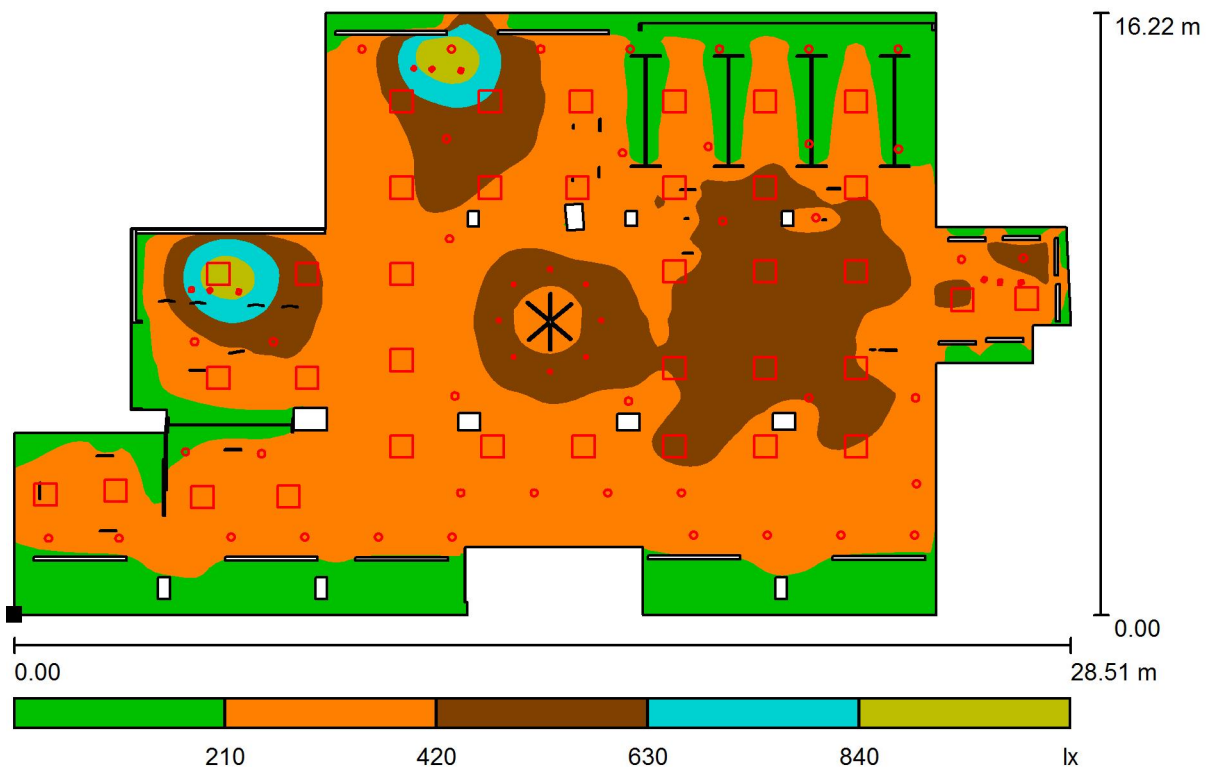
Grid: 128 x 128 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
341	21	1022	0.061	0.020

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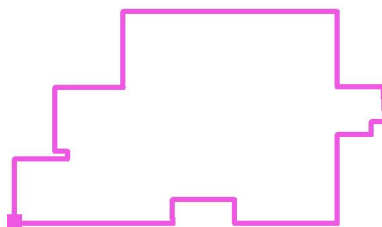
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Izložbeno prodajni salon / Sve lampe / Workplane / Greyscale (E)



Scale 1 : 204

Position of surface in room:
Marked point:
(0.000 m, -0.340 m, 0.850 m)



Grid: 128 x 128 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0	E_{min} / E_{max}
341	21	1022	0.061	0.020