

**SE II. sz. Gyermekgyógyászati Klinika
Neuro-onkológiai és Haematológiai Osztály
átalakítása**

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VILLAMOS KIVITELI TERV

Megvilágítás méretezés

2017 november 17.

Luxiona

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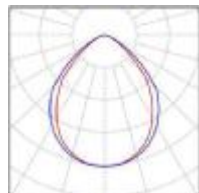
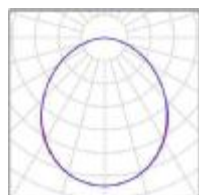
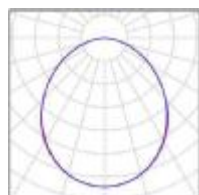
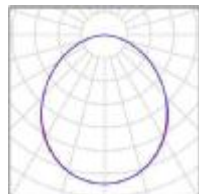
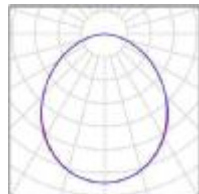
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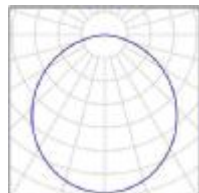
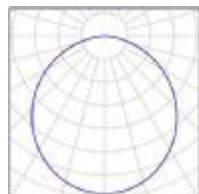
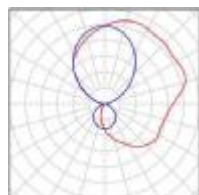
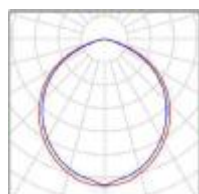
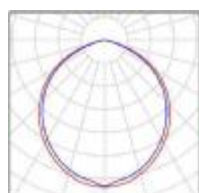
Hematology I / Luminaire parts list

6 Pieces	<p>LUXIONA TroII ACLEDXXXMPRMSL AGAT CLEAN CLASS 7-8-9 LED 5200LM MICRO-PRM SL EDD IP65 840 2KRG3K - 600X600 Article No.: ACLEDXXXMPRMSL Luminous flux (Luminaire): 4166 lm Luminous flux (Lamps): 5568 lm Luminaire Wattage: 36.0 W Luminaire classification according to CIE: 100 CIE flux code: 66 94 100 100 75 Fitting: 4 x Moduł LED LINEAR 1300lm/840 (Correction Factor 1.000).</p>	See our luminaire catalog for an image of the luminaire.	
4 Pieces	<p>LUXIONA TroII ACLEDXXXSLM AGAT CLEAN CLASS 7-8-9 LED 3900LM SLM E IP65 840 2KRG3K - 600X600 Article No.: ACLEDXXXSLM Luminous flux (Luminaire): 3346 lm Luminous flux (Lamps): 4176 lm Luminaire Wattage: 36.0 W Luminaire classification according to CIE: 100 CIE flux code: 51 82 97 100 80 Fitting: 3 x Moduł LED LINEAR 1300lm/840 (Correction Factor 1.000).</p>	See our luminaire catalog for an image of the luminaire.	
2 Pieces	<p>LUXIONA TroII ACLEDXXXSLM AGAT CLEAN LED 3900LM SLM EDD IP65 840 - 600X600 Article No.: ACLEDXXXSLM Luminous flux (Luminaire): 3346 lm Luminous flux (Lamps): 4176 lm Luminaire Wattage: 25.0 W Luminaire classification according to CIE: 100 CIE flux code: 51 82 97 100 80 Fitting: 4 x Moduł LED LINEAR 1300lm/840 (Correction Factor 1.000).</p>	See our luminaire catalog for an image of the luminaire.	
17 Pieces	<p>LUXIONA TroII ACLEDXXXSLM AGAT CLEAN LED 5200LM SLM EDD IP65 840 - 600X600 Article No.: ACLEDXXXSLM Luminous flux (Luminaire): 4461 lm Luminous flux (Lamps): 5568 lm Luminaire Wattage: 36.0 W Luminaire classification according to CIE: 100 CIE flux code: 51 82 97 100 80 Fitting: 4 x Moduł LED LINEAR 1300lm/840 (Correction Factor 1.000).</p>	See our luminaire catalog for an image of the luminaire.	
2 Pieces	<p>LUXIONA TroII ACLEDXXXSLM AGAT CLEAN LED 8800LM SLM EDD IP65 840 - 600X600 Article No.: ACLEDXXXSLM Luminous flux (Luminaire): 7550 lm Luminous flux (Lamps): 9424 lm Luminaire Wattage: 62.0 W Luminaire classification according to CIE: 100 CIE flux code: 51 82 97 100 80 Fitting: 4 x Moduł LED LINEAR 2200lm/840 (Correction Factor 1.000).</p>	See our luminaire catalog for an image of the luminaire.	

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Hematology I / Luminaire parts list

8 Pieces	<p>LUXIONA Troll ALEDXX_XXPLXE AGAT LED 3900LM PLX E IP43 840 - 600X600 Article No.: ALEDXX_XXPLXE Luminous flux (Luminaire): 3141 lm Luminous flux (Lamps): 4176 lm Luminaire Wattage: 27.0 W Luminaire classification according to CIE: 100 CIE flux code: 48 80 96 100 75 Fitting: 3 x Modul LED LINEAR 1300lm/840 (Correction Factor 1.000).</p>	See our luminaire catalog for an image of the luminaire.	
2 Pieces	<p>LUXIONA Troll ALEDXX_XXPLXE AGAT LED 6600LM PLX E IP43 840 - 600X600 Article No.: ALEDXX_XXPLXE Luminous flux (Luminaire): 5317 lm Luminous flux (Lamps): 7068 lm Luminaire Wattage: 47.0 W Luminaire classification according to CIE: 100 CIE flux code: 48 80 96 100 75 Fitting: 3 x Modul LED LINEAR 2200lm/840 (Correction Factor 1.000).</p>	See our luminaire catalog for an image of the luminaire.	
13 Pieces	<p>LUXIONA Troll BHULINEMEDW1LED22-44 BHU LINEMED PREMIUM W1 LED 2200/4400LM E 53 840 L=1200 Article No.: BHULINEMEDW1LED22-44 Luminous flux (Luminaire): 3307 lm Luminous flux (Lamps): 6600 lm Luminaire Wattage: 51.0 W Luminaire classification according to CIE: 32 CIE flux code: 29 55 77 32 50 Fitting: 3 x Modul LED LINEAR 2200/840 (Correction Factor 1.000).</p>	See our luminaire catalog for an image of the luminaire.	
13 Pieces	<p>LUXIONA Troll LAB/2017-03/010 BERYL NEW LED O 5Y 3000LM PLX E 34 IP20/65 840 Article No.: LAB/2017-03/010 Luminous flux (Luminaire): 2600 lm Luminous flux (Lamps): 3350 lm Luminaire Wattage: 28.0 W Luminaire classification according to CIE: 100 CIE flux code: 52 85 99 100 78 Fitting: 1 x LED DMS126C40G (Correction Factor 1.000).</p>	See our luminaire catalog for an image of the luminaire.	
14 Pieces	<p>LUXIONA Troll LAB/2017-03/010 BERYL NEW N LED O 5Y 5000LM PLX E 34 IP20/44 840 Article No.: LAB/2017-03/010 Luminous flux (Luminaire): 4214 lm Luminous flux (Lamps): 5430 lm Luminaire Wattage: 45.0 W Luminaire classification according to CIE: 100 CIE flux code: 52 85 99 100 78 Fitting: 1 x LED DMS120C40G (Correction Factor 1.000).</p>	See our luminaire catalog for an image of the luminaire.	

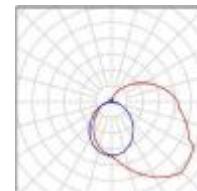


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Hematology I / Luminaire parts list

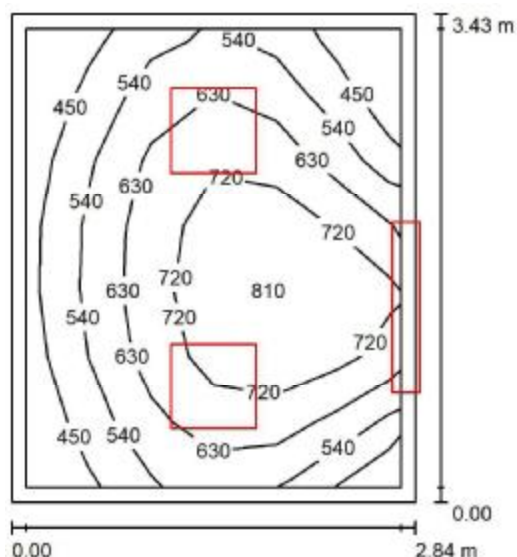
4 Pieces LUXIONA Troil X-WK9LEDXXX_PLXEI44 X-WALL K9 LED 1300LM PLX E IP44 840 L-600
 Article No.: X-WK9LEDXXX_PLXEI44
 Luminous flux (Luminaire): 1012 lm
 Luminous flux (Lamps): 1392 lm
 Luminaire Wattage: 11.0 W
 Luminaire classification according to CIE: 79
 CIE flux code: 36 65 86 79 73
 Fitting: 1 x Modul LED LINEAR 1300lm/840 (Correction Factor 1.000). See our luminaire catalog for an image of the luminaire.



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I.7.109 isolation ward / Summary



Height of Room: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:45

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	619	389	836	0.628
Floor	20	439	293	554	0.669
Ceiling	70	202	105	378	0.521
Walls (4)	50	280	104	2844	/

Workplane:

Height: 0.850 m
 Grid: 6 x 7 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

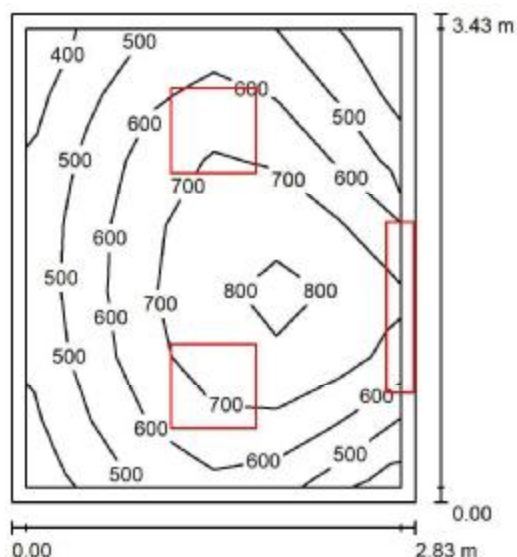
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA Troil ACLEDXXXMPRMSL AGAT CLEAN CLASS 7-8-9 LED 5200LM MICRO-PRM SL EDD IP65 840 2KRG3K - 600X600 (1.000)	4166	5568	36.0
2	1	LUXIONA Troil BHULINEMEDW1LED22-44 BHU LINEMED PREMIUM W1 LED 2200/4400LM E 53 840 L=1200 (1.000)	3307	6600	51.0
Total:			11640	17736	123.0

Specific connected load: $12.65 \text{ W/m}^2 = 2.04 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 9.72 m^2)

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I.7.110 isolation ward / Summary



Height of Room: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:45

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	620	389	848	0.628
Floor	20	439	291	554	0.664
Ceiling	70	204	105	377	0.513
Walls (4)	50	280	105	1829	/

Workplane:

Height: 0.850 m
 Grid: 6 x 7 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

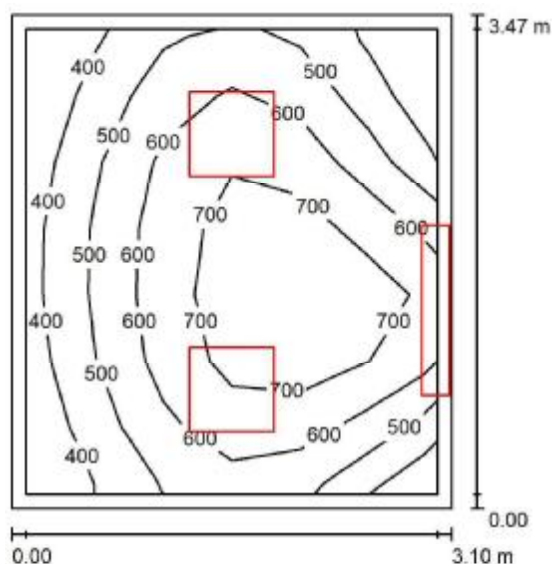
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA TroII ACLEDXXXMPRMSL AGAT CLEAN CLASS 7-8-9 LED 5200LM MICRO-PRM SL EDD IP65 840 2KRG3K - 600X600 (1.000)	4166	5568	36.0
2	1	LUXIONA TroII BHULINEMEDW1LED22-44 BHU LINEMED PREMIUM W1 LED 2200/4400LM E 53 840 L=1200 (1.000)	3307	6600	51.0
Total:			11640	17736	123.0

Specific connected load: $12.65 \text{ W/m}^2 = 2.04 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 9.72 m^2)

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I.7.111 isolation ward / Summary



Height of Room: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:45

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	585	346	797	0.592
Floor	20	419	267	538	0.639
Ceiling	70	188	97	368	0.516
Walls (4)	50	256	97	1682	/

Workplane:

Height: 0.850 m
 Grid: 6 x 7 Points
 Boundary Zone: 0.100 m

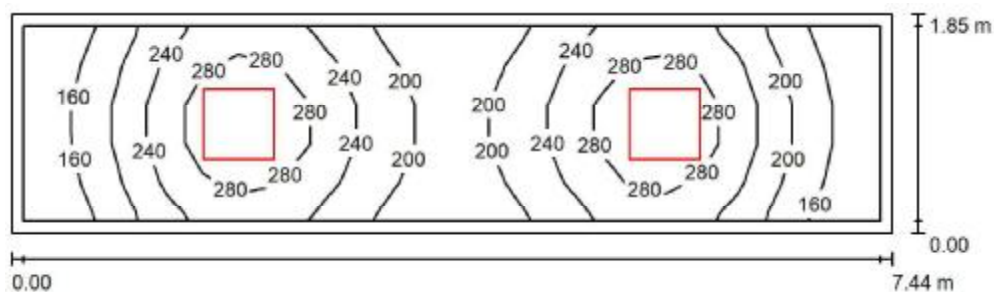
Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA TroII ACLEDXXXMPRMSL AGAT CLEAN CLASS 7-8-9 LED 5200LM MICRO-PRM SL EDD IP65 840 2KRG3K - 600X600 (1.000)	4166	5568	36.0
2	1	LUXIONA TroII BHULINEMEDW1LED22-44 BHU LINEMED PREMIUM W1 LED 2200/4400LM E 53 840 L=1200 (1.000)	3307	6600	51.0
Total:			11640	17736	123.0

Specific connected load: $11.43 \text{ W/m}^2 = 1.96 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 10.76 m^2)

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I.7.106 lock / Summary

Height of Room: 3.000 m, Mounting Height: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:54

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	227	128	318	0.564
Floor	20	162	103	196	0.632
Ceiling	70	55	35	70	0.647
Walls (4)	50	119	40	354	/

Workplane:

Height: 0.850 m
 Grid: 24 x 5 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

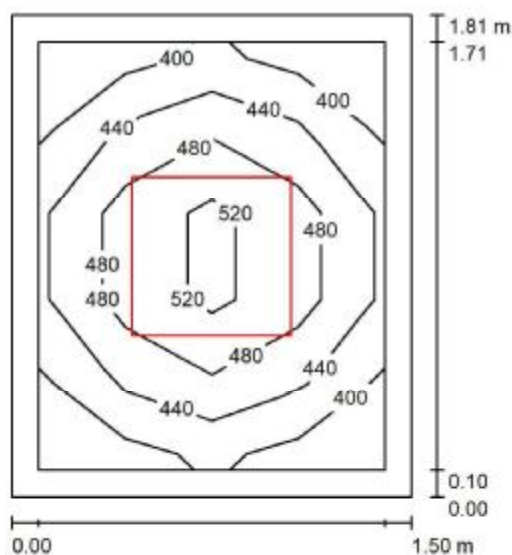
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA TroII ACLEDXXXSLM AGAT CLEAN CLASS 7-8-9 LED 3900LM SLM E IP65 840 2KRG3K - 600X600 (1.000)	3346	4176	36.0
Total:			6691	8352	72.0

Specific connected load: $5.23 \text{ W/m}^2 = 2.31 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 13.76 m^2)

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I.7.108 bath / Summary



Height of Room: 2.500 m, Mounting Height: 2.500 m, Maintenance factor: 0.80

Values in Lux, Scale 1:24

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	462	391	548	0.846
Floor	20	251	208	285	0.828
Ceiling	70	121	80	140	0.660
Walls (4)	50	244	90	575	/

Workplane:

Height: 0.850 m
 Grid: 4 x 5 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

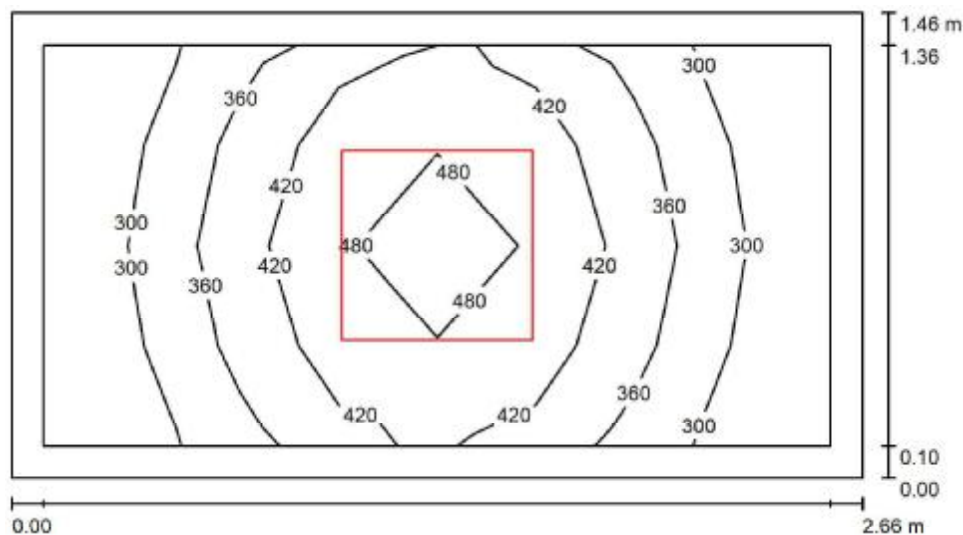
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LUXIONA TroII ACLEDXXXSLM AGAT CLEAN CLASS 7-8-9 LED 3900LM SLM E IP65 840 2KRG3K - 600X600 (1.000)	3346	4176	36.0
Total:			3346	4176	36.0

Specific connected load: $13.29 \text{ W/m}^2 = 2.87 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 2.71 m^2)

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I.7.107 bath / Summary



Height of Room: 2.500 m, Mounting Height: 2.500 m, Maintenance factor: 0.80

Values in Lux, Scale 1:20

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	385	258	513	0.671
Floor	20	218	162	264	0.742
Ceiling	70	88	53	113	0.599
Walls (4)	50	183	62	570	/

Workplane:

Height: 0.850 m
 Grid: 8 x 4 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

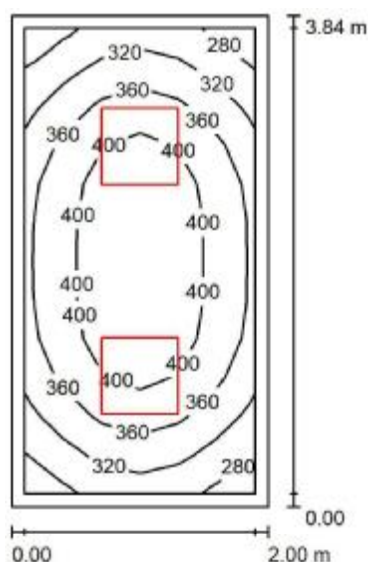
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LUXIONA TroII ACLEDXXXSLM AGAT CLEAN CLASS 7- 8-9 LED 3900LM SLM E IP65 840 2KRG3K - 600X600 (1.000)	3346	4176	36.0
Total:			3346	4176	36.0

Specific connected load: $9.30 \text{ W/m}^2 = 2.42 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 3.87 m^2)

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I.7.105 preparatory / Summary



Height of Room: 3.000 m, Mounting Height: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:50

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	373	279	432	0.750
Floor	20	250	190	297	0.757
Ceiling	70	95	64	105	0.674
Walls (4)	50	204	73	368	/

Workplane:

Height: 0.850 m
 Grid: 6 x 12 Points
 Boundary Zone: 0.100 m

UGR

Left Wall 17
 Lower Wall 17
 (CIE, SHR = 0.25.)

Lengthways-

Across 17
 to luminaire axis

Luminaire Parts List

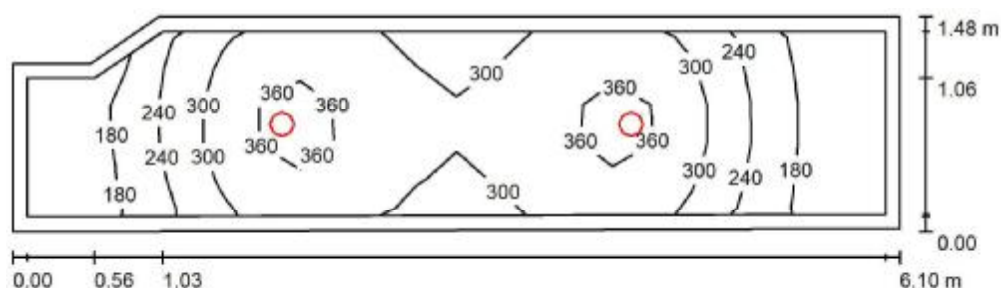
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA Troll ACLEDXXXSLM AGAT CLEAN LED 3900LM SLM EDD IP65 840 - 600X600 (1.000)	3346	4176	25.0
Total:			6691	8352	50.0

Specific connected load: $6.51 \text{ W/m}^2 = 1.75 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 7.68 m^2)

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I.7.104 corridor / Summary



Height of Room: 2.700 m, Mounting Height: 2.700 m, Maintenance factor: 0.80

Values in Lux, Scale 1:44

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	276	121	384	0.437
Floor	20	182	102	227	0.562
Ceiling	70	63	32	87	0.512
Walls (6)	50	135	35	492	/

Workplane:

Height: 0.850 m
 Grid: 22 x 5 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

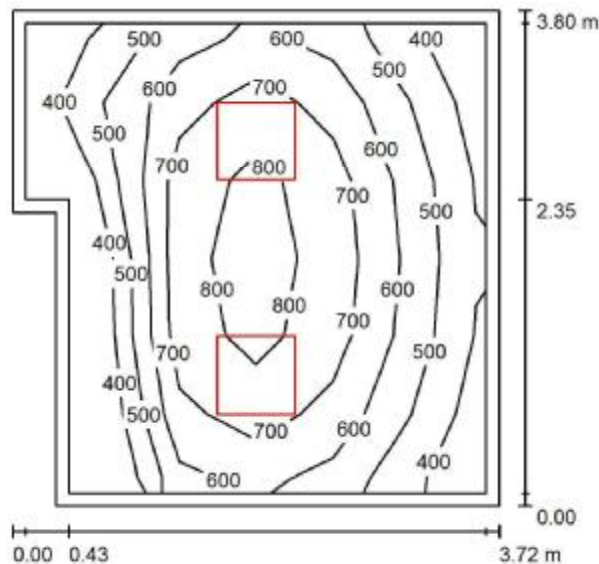
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA Troll LAB/2017-03/010 BERYL NEW LED O 5Y 3000LM PLX E 34 IP20/65 840 (1.000)	2600	3350	28.0
Total:			5199	6700	56.0

Specific connected load: $6.42 \text{ W/m}^2 = 2.33 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 8.72 m^2)

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I.7.19 treatment / Summary



Height of Room: 3.000 m, Mounting Height: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:49

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	641	374	853	0.583
Floor	20	457	284	593	0.620
Ceiling	70	130	88	158	0.677
Walls (6)	50	293	93	734	/

Workplane:

Height: 0.850 m
 Grid: 6 x 6 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

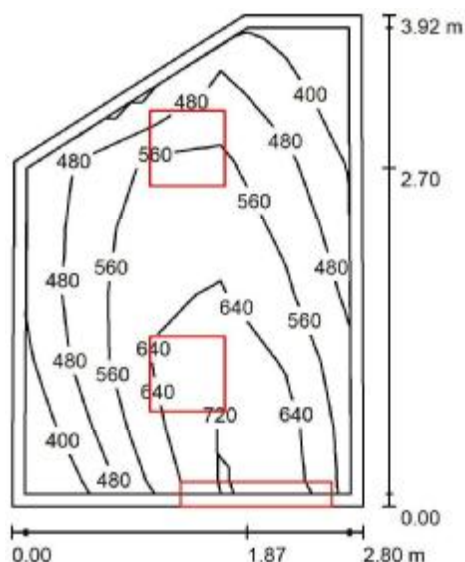
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA TroII ACLEDXXXSLM AGAT CLEAN LED 8800LM SLM EDD IP65 840 - 600X600 (1.000)	7550	9424	62.0
Total:			15100	18848	124.0

Specific connected load: $9.26 \text{ W/m}^2 = 1.44 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 13.39 m^2)

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I.7.20 ward / Summary



Height of Room: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:51

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	562	370	769	0.658
Floor	20	392	258	486	0.658
Ceiling	70	218	119	415	0.546
Walls (5)	50	322	128	2066	/

Workplane:

Height: 0.850 m
 Grid: 5 x 7 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

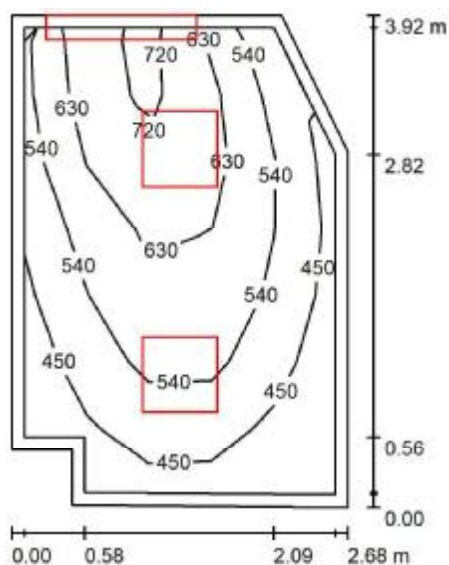
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA TroII ACLEDXXXSLM AGAT CLEAN LED 5200LM SLM EDD IP65 840 - 600X600 (1.000)	4461	5568	36.0
2	1	LUXIONA TroII BHULINEMEDW1LED22-44 BHU LINEMED PREMIUM W1 LED 2200/4400LM E 53 840 L=1200 (1.000)	3307	6600	51.0
Total:			12229	17736	123.0

Specific connected load: $12.52 \text{ W/m}^2 = 2.23 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 9.83 m^2)

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I.7.21 ward / Summary



Height of Room: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:51

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	562	367	773	0.653
Floor	20	390	255	485	0.653
Ceiling	70	211	107	421	0.507
Walls (7)	50	314	129	2069	/

Workplane:

Height: 0.850 m
 Grid: 7 x 5 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

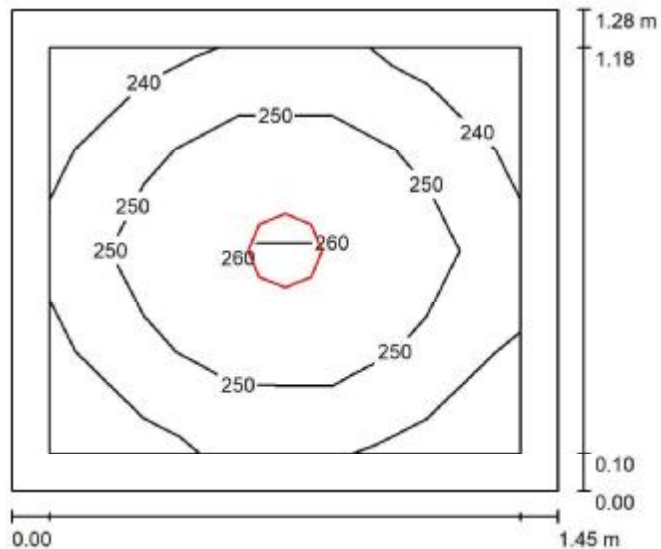
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA TroII ACLEDXXXSLM AGAT CLEAN LED 5200LM SLM EDD IP65 840 - 600X600 (1.000)	4461	5568	36.0
2	1	LUXIONA TroII BHULINEMEDW1LED22-44 BHU LINEMED PREMIUM W1 LED 2200/4400LM E 53 840 L=1200 (1.000)	3307	6600	51.0
Total:			12229	17736	123.0

Specific connected load: $12.33 \text{ W/m}^2 = 2.20 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 9.98 m^2)

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I.7.13 stock / Summary



Height of Room: 3.920 m, Mounting Height: 3.920 m, Maintenance factor: 0.80

Values in Lux, Scale 1:17

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	250	237	262	0.949
Floor	20	150	141	159	0.939
Ceiling	70	196	126	235	0.645
Walls (4)	50	283	58	1034	/

Workplane:

Height: 0.850 m
 Grid: 5 x 4 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

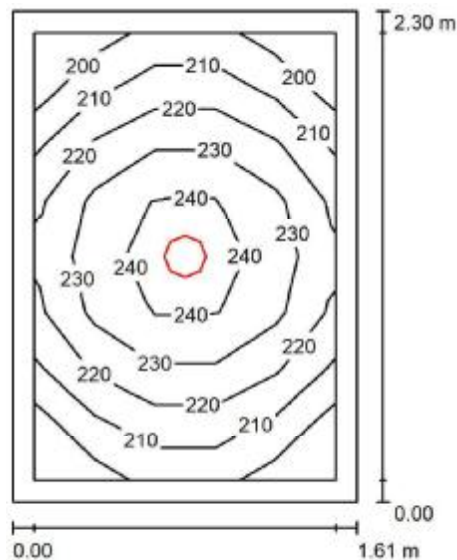
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LUXIONA TroII LAB/2017-03/010 BERYL NEW N LED O 5Y 5000LM PLX E 34 IP20/44 840 (1.000)	4214	5430	45.0
Total:			4214	5430	45.0

Specific connected load: $24.25 \text{ W/m}^2 = 9.69 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 1.86 m^2)

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I.7.14 stock / Summary



Height of Room: 3.920 m, Mounting Height: 3.920 m, Maintenance factor: 0.80

Values in Lux, Scale 1:30

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	223	197	246	0.881
Floor	20	144	128	158	0.891
Ceiling	70	103	67	126	0.648
Walls (4)	50	184	58	666	/

Workplane:

Height: 0.850 m
 Grid: 5 x 8 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

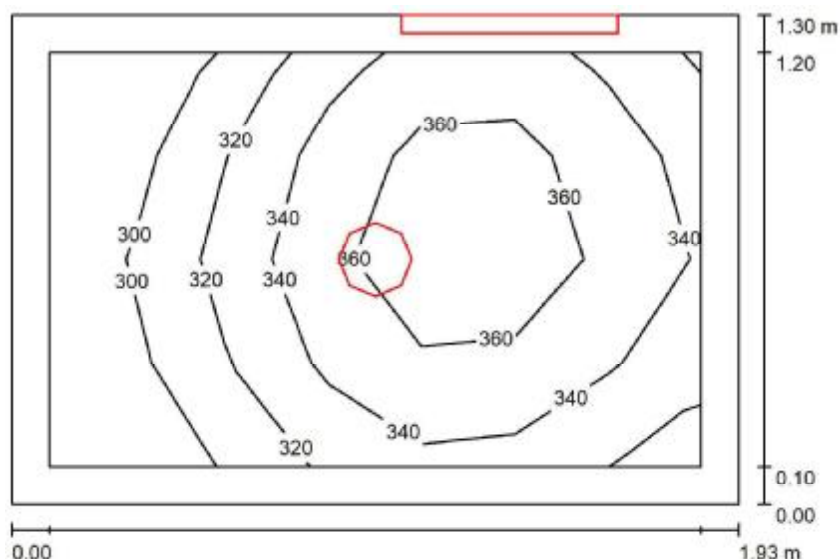
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LUXIONA Troll LAB/2017-03/010 BERYL NEW N LED O 5Y 5000LM PLX E 34 IP20/44 840 (1.000)	4214	5430	45.0
Total:			4214	5430	45.0

Specific connected load: $12.15 \text{ W/m}^2 = 5.45 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 3.70 m^2)

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I.7.12 bath / Summary



Height of Room: 3.920 m, Maintenance factor: 0.80

Values in Lux, Scale 1:17

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	338	282	381	0.836
Floor	20	200	171	218	0.859
Ceiling	70	170	115	209	0.677
Walls (4)	50	288	75	4872	/

Workplane:

Height: 0.850 m
 Grid: 7 x 4 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

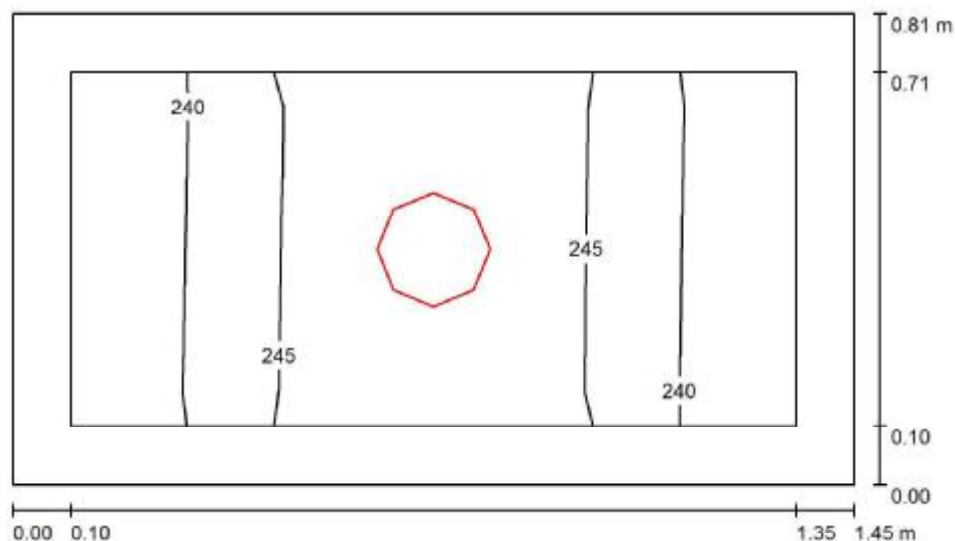
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LUXIONA Troll LAB/2017-03/010 BERYL NEW N LED O 5Y 5000LM PLX E 34 IP20/44 840 (1.000)	4214	5430	45.0
2	1	LUXIONA Troll X-WK9LEDXXX_PLXEI44 X-WALL K9 LED 1300LM PLX E IP44 840 L-600 (1.000)	1012	1392	11.0
Total:			5225	6822	56.0

Specific connected load: $22.32 \text{ W/m}^2 = 6.61 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 2.51 m^2)

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I.7.16.1 WC / Summary



Height of Room: 3.920 m, Mounting Height: 3.920 m, Maintenance factor: 0.80

Values in Lux, Scale 1:11

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	244	237	251	0.969
Floor	20	142	136	148	0.955
Ceiling	70	303	191	393	0.632
Walls (4)	50	352	43	2380	/

Workplane:

Height: 0.850 m
 Grid: 5 x 2 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

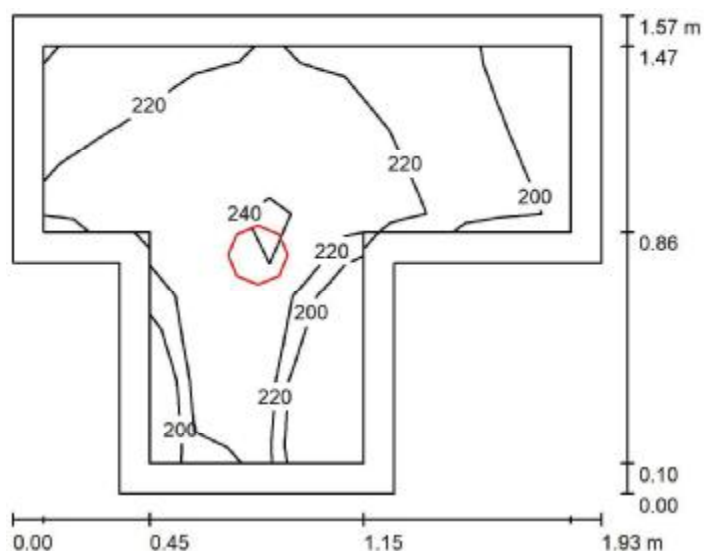
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LUXIONA TroII LAB/2017-03/010 BERYL NEW N LED O 5Y 5000LM PLX E 34 IP20/44 840 (1.000)	4214	5430	45.0
Total:			4214	5430	45.0

Specific connected load: $38.31 \text{ W/m}^2 = 15.68 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 1.17 m^2)

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17.2 stock / Summary



Height of Room: 3.920 m, Mounting Height: 3.920 m, Maintenance factor: 0.80

Values in Lux, Scale 1:21

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	224	197	248	0.879
Floor	20	137	113	152	0.830
Ceiling	70	150	72	234	0.480
Walls (8)	50	218	32	1953	/

Workplane:

Height: 0.850 m
 Grid: 7 x 5 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

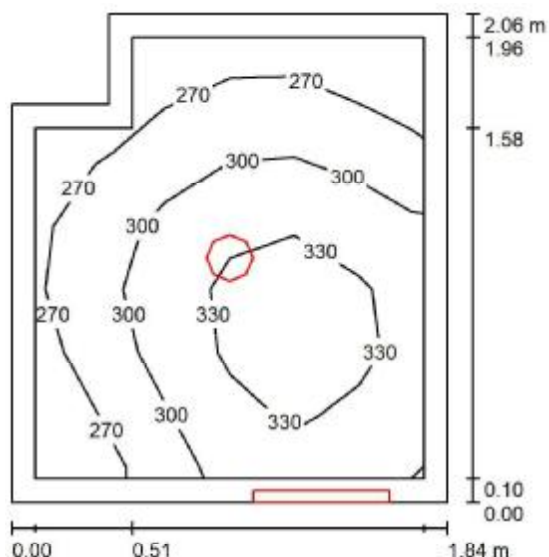
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LUXIONA Troll LAB/2017-03/010 BERYL NEW N LED O 5Y 5000LM PLX E 34 IP20/44 840 (1.000)	4214	5430	45.0
Total:			4214	5430	45.0

Specific connected load: $20.02 \text{ W/m}^2 = 8.94 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 2.25 m^2)

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I.7.22 bath / Summary



Height of Room: 3.920 m, Maintenance factor: 0.80

Values in Lux, Scale 1:27

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	301	250	352	0.832
Floor	20	190	165	211	0.867
Ceiling	70	122	81	147	0.662
Walls (6)	50	224	77	2259	/

Workplane:

Height: 0.850 m
 Grid: 6 x 7 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

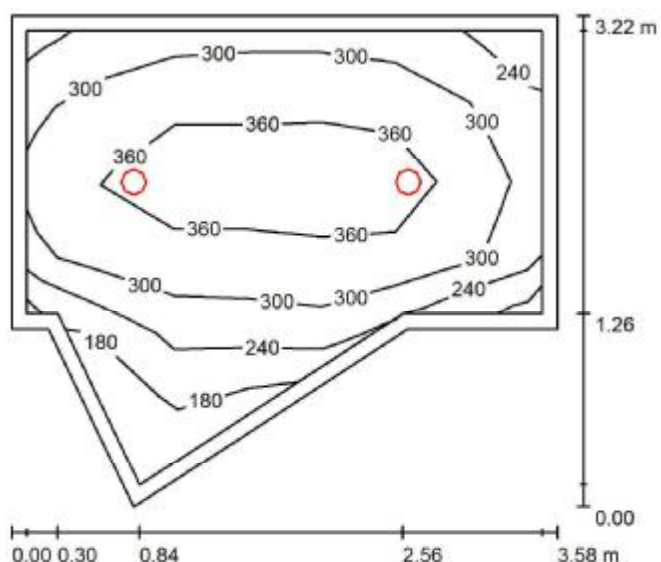
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LUXIONA Troll LAB/2017-03/010 BERYL NEW N LED O 5Y 5000LM PLX E 34 IP20/44 840 (1.000)	4214	5430	45.0
2	1	LUXIONA Troll X-WK9LEDXXX_PLXEI44 X-WALL K9 LED 1300LM PLX E IP44 840 L-600 (1.000)	1012	1392	11.0
Total:			5225	6822	56.0

Specific connected load: $15.41 \text{ W/m}^2 = 5.12 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 3.63 m^2)

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I.7.18.2 corridor / Summary



Height of Room: 2.700 m, Mounting Height: 2.700 m, Maintenance factor: 0.80

Values in Lux, Scale 1:42

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	315	145	400	0.462
Floor	20	215	129	266	0.602
Ceiling	70	64	43	82	0.670
Walls (7)	50	148	42	414	/

Workplane:

Height: 0.850 m
 Grid: 6 x 7 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

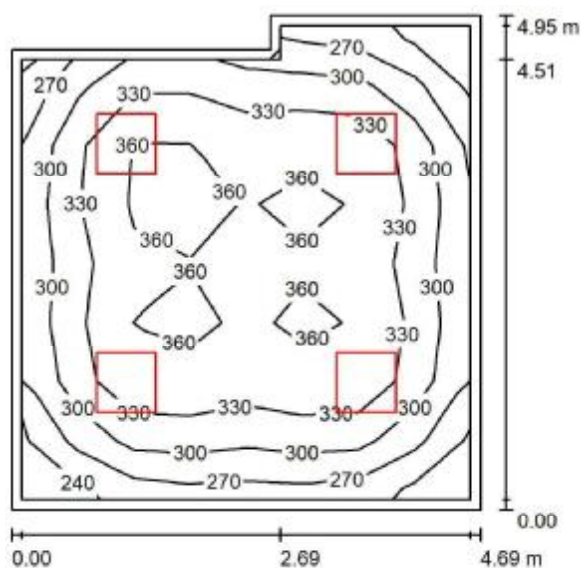
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA Troll LAB/2017-03/010 BERYL NEW LED O 5Y 3000LM PLX E 34 IP20/65 840 (1.000)	2600	3350	28.0
Total:			5199	6700	56.0

Specific connected load: $6.40 \text{ W/m}^2 = 2.04 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 8.75 m^2)

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I.8.7 doctor's / Summary



Height of Room: 3.000 m, Mounting Height: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:64

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	329	239	383	0.726
Floor	20	253	171	302	0.678
Ceiling	70	73	52	97	0.711
Walls (6)	50	172	58	373	/

Workplane:

Height: 0.850 m
 Grid: 8 x 8 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

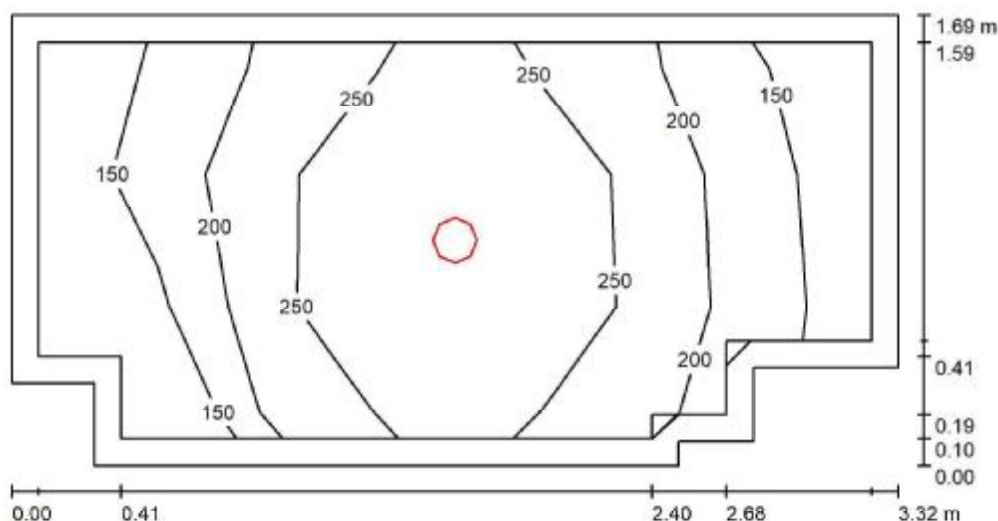
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	4	LUXIONA TroII ALEDXX_XXPLXE AGAT LED 3900LM PLX E IP43 840 - 600X600 (1.000)	3141	4176	27.0
Total:			12565	16704	108.0

Specific connected load: $4.84 \text{ W/m}^2 = 1.47 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 22.33 m^2)

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I.8.8 corridor / Summary



Height of Room: 2.700 m, Mounting Height: 2.700 m, Maintenance factor: 0.80

Values in Lux, Scale 1:24

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	226	134	335	0.596
Floor	20	139	96	176	0.693
Ceiling	70	47	28	63	0.608
Walls (10)	50	103	30	341	/

Workplane:

Height: 0.850 m
 Grid: 7 x 3 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

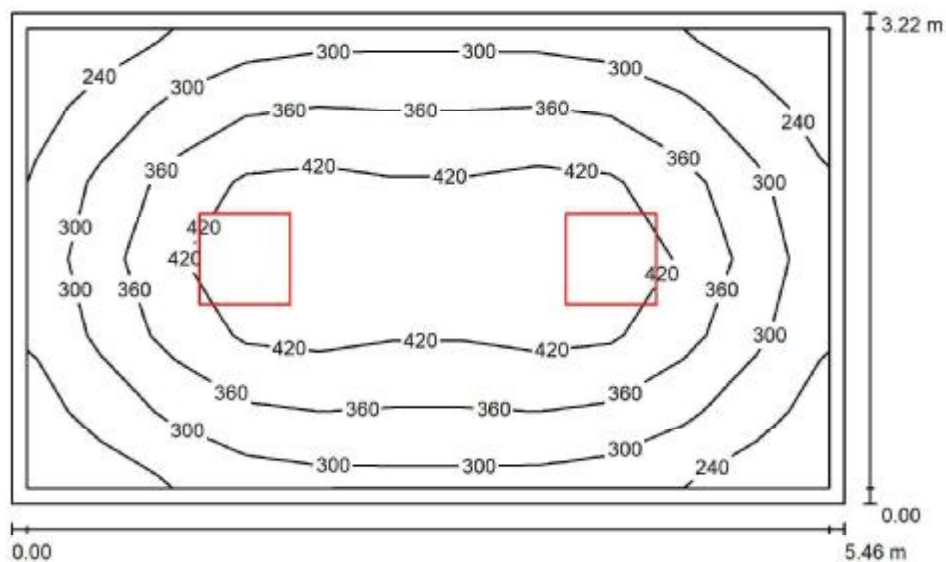
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LUXIONA TroII LAB/2017-03/010 BERYL NEW LED O 5Y 3000LM PLX E 34 IP20/65 840 (1.000)	2600	3350	28.0
Total:			2600	3350	28.0

Specific connected load: $5.29 \text{ W/m}^2 = 2.34 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 5.29 m^2)

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17.23 play-room / Summary



Height of Room: 3.000 m, Mounting Height: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:42

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	355	213	481	0.599
Floor	20	262	167	336	0.639
Ceiling	70	72	54	80	0.751
Walls (4)	50	170	61	266	/

Workplane:

Height: 0.850 m
 Grid: 11 x 6 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

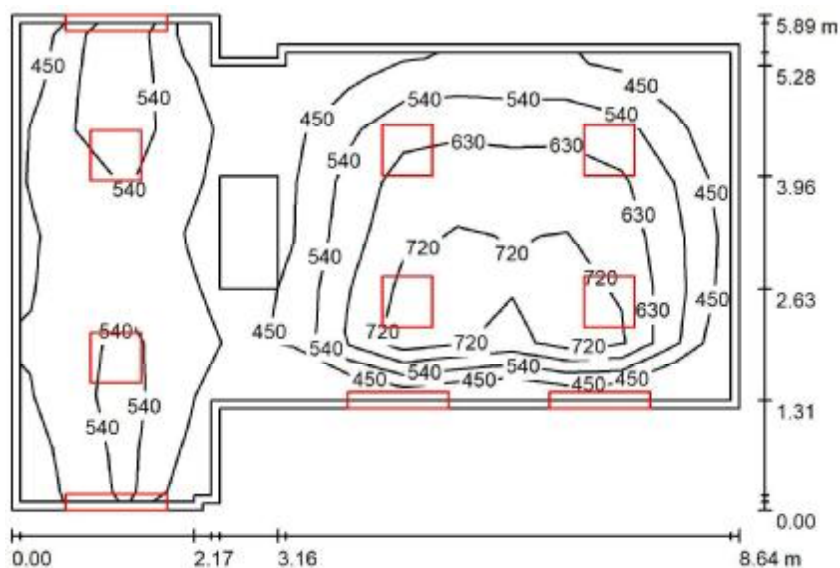
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA Troll ALEDXX_XXPLXE AGAT LED 6600LM PLX E IP43 840 - 600X600 (1.000)	5317	7068	47.0
Total:			10634	14136	94.0

Specific connected load: $5.35 \text{ W/m}^2 = 1.51 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 17.58 m^2)

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I.7.24 ward / Summary



Height of Room: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:76

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	567	383	813	0.676
Floor	20	444	262	616	0.591
Ceiling	70	214	110	417	0.515
Walls (13)	50	299	125	2066	/

Workplane:

Height: 0.850 m
 Grid: 9 x 13 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

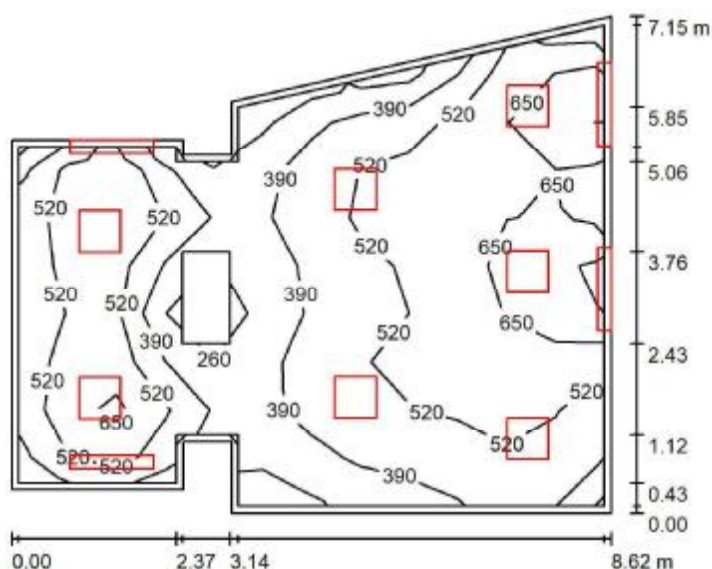
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	6	LUXIONA TroII ACLEDXXXSLM AGAT CLEAN LED 5200LM SLM EDD IP65 840 - 600X600 (1.000)	4461	5568	36.0
2	4	LUXIONA TroII BHULINEMEDW1LED22-44 BHU LINEMED PREMIUM W1 LED 2200/4400LM E 53 840 L=1200 (1.000)	3307	6600	51.0
Total:			39994	59808	420.0

Specific connected load: $10.21 \text{ W/m}^2 = 1.80 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 41.13 m^2)

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I.7.25 ward / Summary



Height of Room: 3.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:92

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	513	248	852	0.483
Floor	20	420	194	570	0.463
Ceiling	70	191	83	422	0.436
Walls (12)	50	290	103	2060	/

Workplane:

Height: 0.850 m
Grid: 10 x 12 Points
Boundary Zone: 0.100 m

Luminaire Parts List

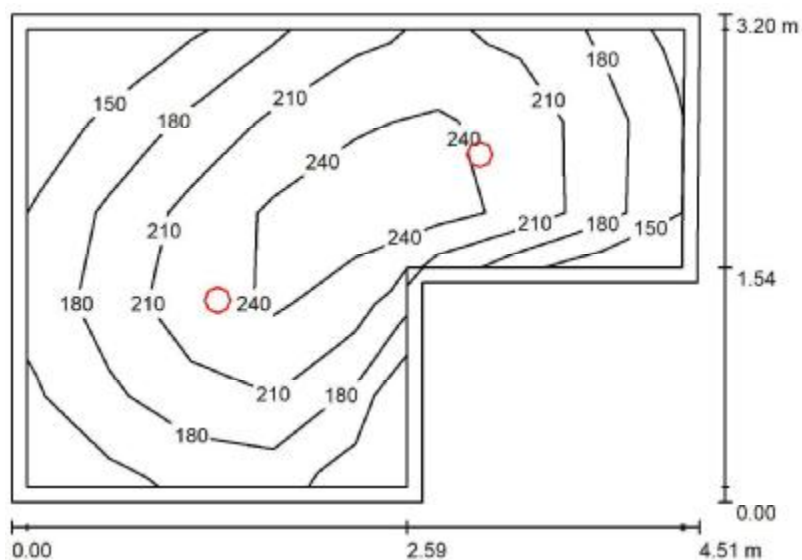
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	7	LUXIONA TroII ACLEDXXXSLM AGAT CLEAN LED 5200LM SLM EDD IP65 840 - 600X600 (1.000)	4461	5568	36.0
2	4	LUXIONA TroII BHULINEMEDW1LED22-44 BHU LINEMED PREMIUM W1 LED 2200/4400LM E 53 840 L=1200 (1.000)	3307	6600	51.0
Total:			44455	65376	456.0

Specific connected load: $8.93 \text{ W/m}^2 = 1.74 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 51.04 m^2)

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I.7.101 corridor / Summary



Height of Room: 3.300 m, Mounting Height: 3.300 m, Maintenance factor: 0.80

Values in Lux, Scale 1:42

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	203	121	261	0.594
Floor	20	144	86	182	0.595
Ceiling	70	45	28	72	0.623
Walls (6)	50	103	31	345	/

Workplane:

Height: 0.850 m
 Grid: 8 x 5 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

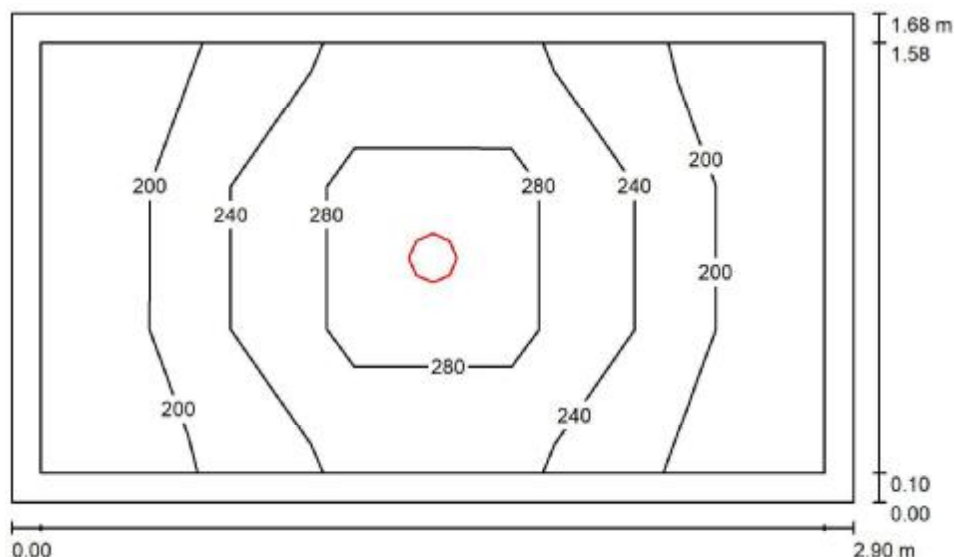
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA Troll LAB/2017-03/010 BERYL NEW LED O 5Y 3000LM PLX E 34 IP20/65 840 (1.000)	2600	3350	28.0
Total:			5199	6700	56.0

Specific connected load: $4.75 \text{ W/m}^2 = 2.34 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 11.79 m^2)

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I.7.102 corridor / Summary



Height of Room: 2.700 m, Mounting Height: 2.700 m, Maintenance factor: 0.80

Values in Lux, Scale 1:22

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	240	174	340	0.725
Floor	20	146	108	180	0.739
Ceiling	70	52	34	65	0.665
Walls (4)	50	115	35	349	/

Workplane:

Height: 0.850 m
 Grid: 5 x 3 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LUXIONA Troll LAB/2017-03/010 BERYL NEW LED O 5Y 3000LM PLX E 34 IP20/65 840 (1.000)	2600	3350	28.0
Total:			2600	3350	28.0

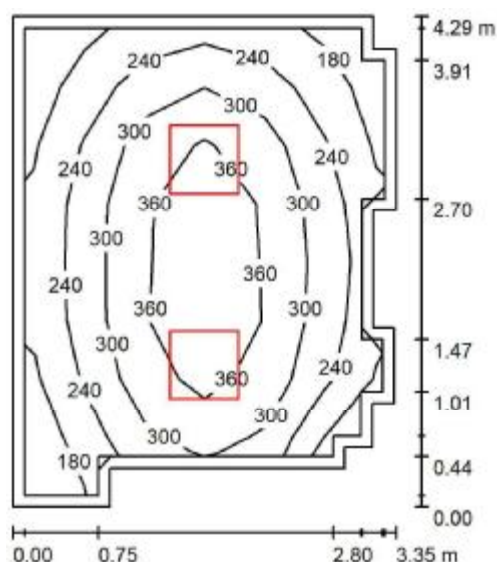
Specific connected load: $5.75 \text{ W/m}^2 = 2.40 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 4.87 m^2)

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I.7.32 kitchen / Summary



Height of Room: 2.700 m, Mounting Height: 2.700 m, Maintenance factor: 0.80

Values in Lux, Scale 1:56

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	288	152	408	0.529
Floor	20	201	53	267	0.263
Ceiling	70	55	34	90	0.605
Walls (16)	50	125	29	374	/

Workplane:

Height: 0.850 m
 Grid: 6 x 8 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

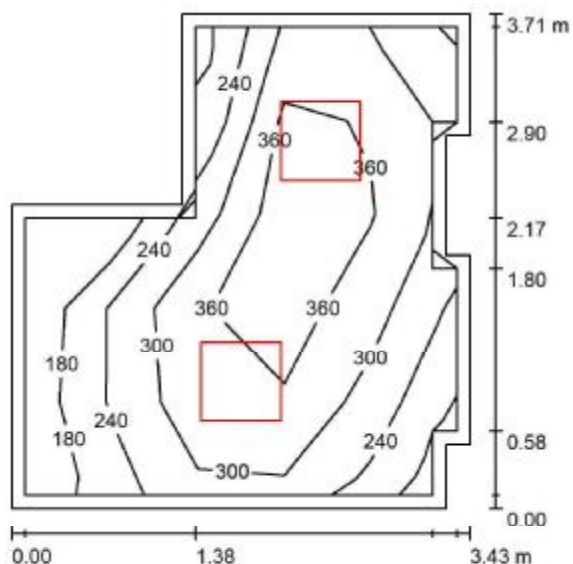
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA Troll ALEDXX_XXPLXE AGAT LED 3900LM PLX E IP43 840 - 600X600 (1.000)	3141	4176	27.0
Total:			6283	8352	54.0

Specific connected load: $4.13 \text{ W/m}^2 = 1.43 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 13.08 m^2)

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I.7.30 nurse / Summary



Height of Room: 2.700 m, Mounting Height: 2.700 m, Maintenance factor: 0.80

Values in Lux, Scale 1:48

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	315	163	429	0.517
Floor	20	215	100	277	0.467
Ceiling	70	66	41	105	0.619
Walls (12)	50	148	47	378	/

Workplane:

Height: 0.850 m
 Grid: 5 x 5 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

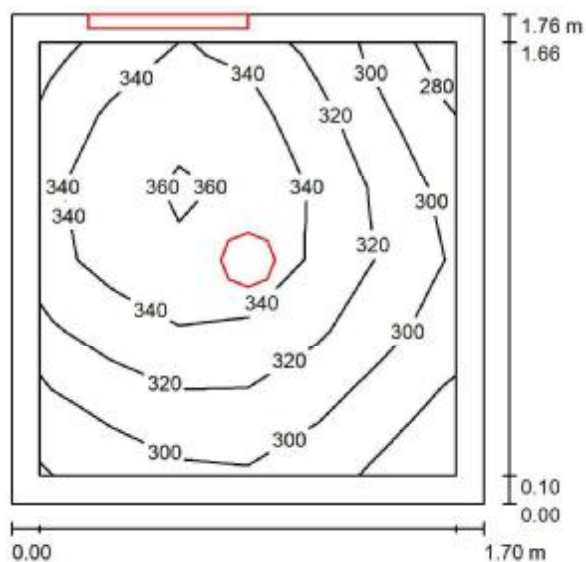
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	LUXIONA TroII ALEDXX_XXPLXE AGAT LED 3900LM PLX E IP43 840 - 600X600 (1.000)	3141	4176	27.0
Total:			6283	8352	54.0

Specific connected load: $5.07 \text{ W/m}^2 = 1.61 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 10.65 m^2)

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I.7.27 bath / Summary



Height of Room: 3.920 m, Maintenance factor: 0.80

Values in Lux, Scale 1:23

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	328	275	368	0.837
Floor	20	198	175	217	0.882
Ceiling	70	147	101	177	0.684
Walls (4)	50	260	81	2286	/

Workplane:

Height: 0.850 m
 Grid: 6 x 6 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

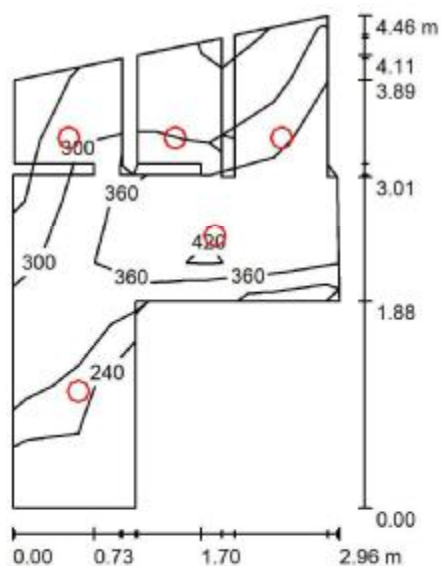
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LUXIONA Troll LAB/2017-03/010 BERYL NEW N LED O 5Y 5000LM PLX E 34 IP20/44 840 (1.000)	4214	5430	45.0
2	1	LUXIONA Troll X-WK9LEDXXX_PLXEI44 X-WALL K9 LED 1300LM PLX E IP44 840 L-600 (1.000)	1012	1392	11.0
Total:			5225	6822	56.0

Specific connected load: $18.77 \text{ W/m}^2 = 5.72 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 2.98 m^2)

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I.7.26 WC / Summary



Height of Room: 3.920 m, Mounting Height: 3.920 m, Maintenance factor: 0.80

Values in Lux, Scale 1:58

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	327	209	485	0.640
Floor	20	222	139	367	0.626
Ceiling	70	206	108	439	0.522
Walls (24)	50	342	44	6507	/

Workplane:

Height: 0.850 m
 Grid: 8 x 5 Points
 Boundary Zone: 0.000 m

Luminaire Parts List

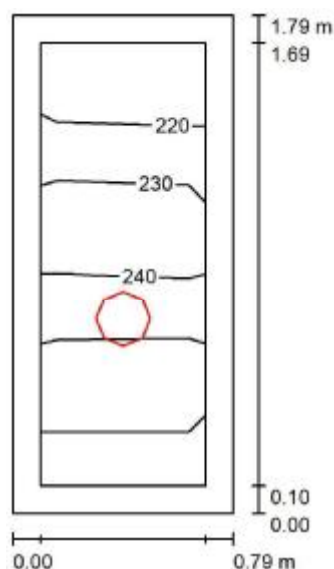
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	5	LUXIONA TroII LAB/2017-03/010 BERYL NEW N LED O 5Y 5000LM PLX E 34 IP20/44 840 (1.000)	4214	5430	45.0
Total:			21068	27150	225.0

Specific connected load: $27.18 \text{ W/m}^2 = 8.31 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 8.28 m^2)

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I.7.28 bath / Summary



Height of Room: 3.920 m, Mounting Height: 3.920 m, Maintenance factor: 0.80

Values in Lux, Scale 1:23

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	230	212	243	0.919
Floor	20	137	125	148	0.912
Ceiling	70	259	132	381	0.508
Walls (4)	50	306	41	2618	/

Workplane:

Height: 0.850 m
 Grid: 2 x 5 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

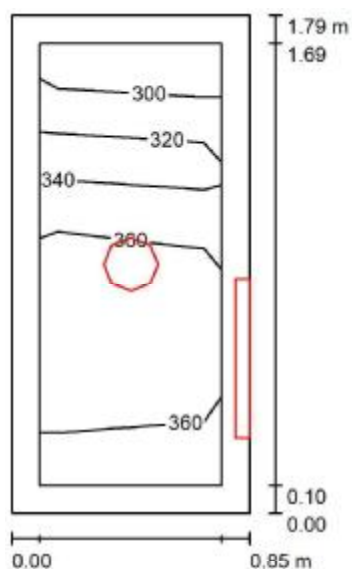
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LUXIONA TroII LAB/2017-03/010 BERYL NEW N LED O 5Y 5000LM PLX E 34 IP20/44 840 (1.000)	4214	5430	45.0
Total:			4214	5430	45.0

Specific connected load: $31.82 \text{ W/m}^2 = 13.82 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 1.41 m^2)

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I.7.29 WC / Summary



Height of Room: 3.920 m, Maintenance factor: 0.80

Values in Lux, Scale 1:23

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	347	296	381	0.853
Floor	20	193	170	209	0.884
Ceiling	70	260	170	352	0.655
Walls (4)	50	363	62	2320	/

Workplane:

Height: 0.850 m
 Grid: 2 x 5 Points
 Boundary Zone: 0.100 m

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LUXIONA TroII LAB/2017-03/010 BERYL NEW N LED O 5Y 5000LM PLX E 34 IP20/44 840 (1.000)	4214	5430	45.0
2	1	LUXIONA TroII X-WK9LEDXXX_PLXEI44 X-WALL K9 LED 1300LM PLX E IP44 840 L-600 (1.000)	1012	1392	11.0
Total:			5225	6822	56.0

Specific connected load: $36.59 \text{ W/m}^2 = 10.54 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 1.53 m^2)