

Cheddar Parish Pavilion

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Date: 10.10.2019
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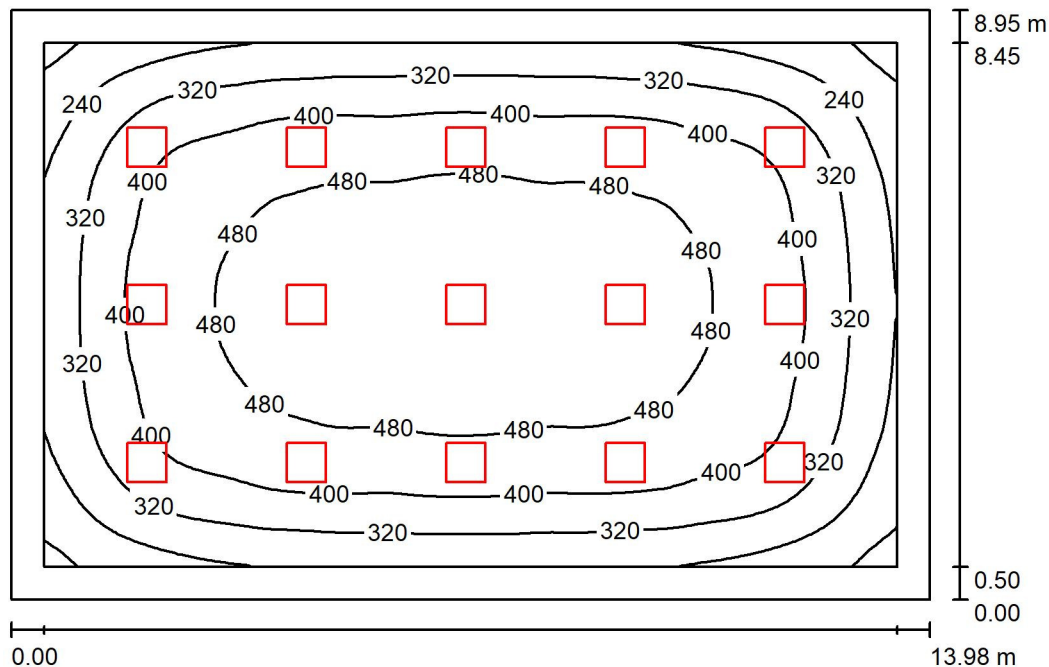
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Function Room / Summary



Height of Room: 2.987 m, Mounting Height: 2.987 m, Maintenance factor: 0.80

Values in Lux, Scale 1:115

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	392	131	527	0.335
Floor	20	355	99	526	0.279
Ceiling	70	70	48	83	0.682
Walls (4)	50	116	54	184	/

Workplane:

Height: 0.000 m
Grid: 64 x 64 Points
Boundary Zone: 0.500 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.270, Ceiling / Working Plane: 0.175.

Luminaire Parts List

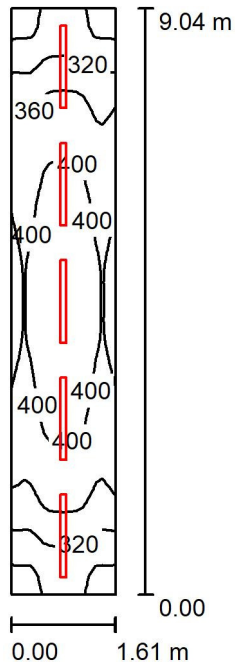
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	15	PXF Lighting PX2065508 SUN LED 596X596 4000K (1.000)	3800	3800	36.0
Total:			57000	57000	540.0

Specific connected load: $4.32 \text{ W/m}^2 = 1.10 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 125.07 m^2)

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Function Room Storage / Summary



Height of Room: 2.987 m, Mounting Height: 2.987 m, Maintenance factor: 0.80

Values in Lux, Scale 1:117

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	369	264	422	0.717
Floor	20	369	264	423	0.717
Ceiling	70	241	168	467	0.695
Walls (4)	50	352	134	701	/

Workplane:

UGR

Lengthways-

Across

to luminaire axis

Height: 0.000 m

Left Wall

21

20

Grid: 64 x 16 Points

Lower Wall

25

22

Boundary Zone: 0.000 m

(CIE, SHR = 1.00.)

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.955, Ceiling / Working Plane: 0.654.

Luminaire Parts List

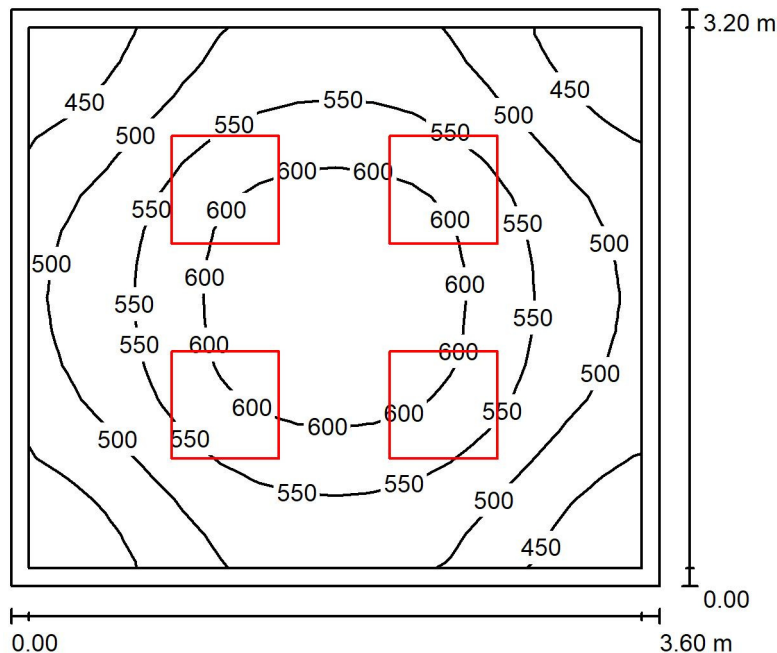
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	5	PXF Lighting PX2040157 FIBRA LED IP66 1272mm 1x 4000K (1.000)	4160	4160	30.0
Total:			20800	20800	150.0

Specific connected load: $10.32 \text{ W/m}^2 = 2.80 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 14.54 m^2)

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Bar / Summary



Height of Room: 2.987 m, Mounting Height: 2.987 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	/	534	408	641	0.765
Floor	20	521	354	643	0.679
Ceiling	70	180	121	209	0.670
Walls (4)	50	401	151	697	/

Workplane:

Height: 0.000 m
Grid: 16 x 16 Points
Boundary Zone: 0.100 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.746, Ceiling / Working Plane: 0.338.

Luminaire Parts List

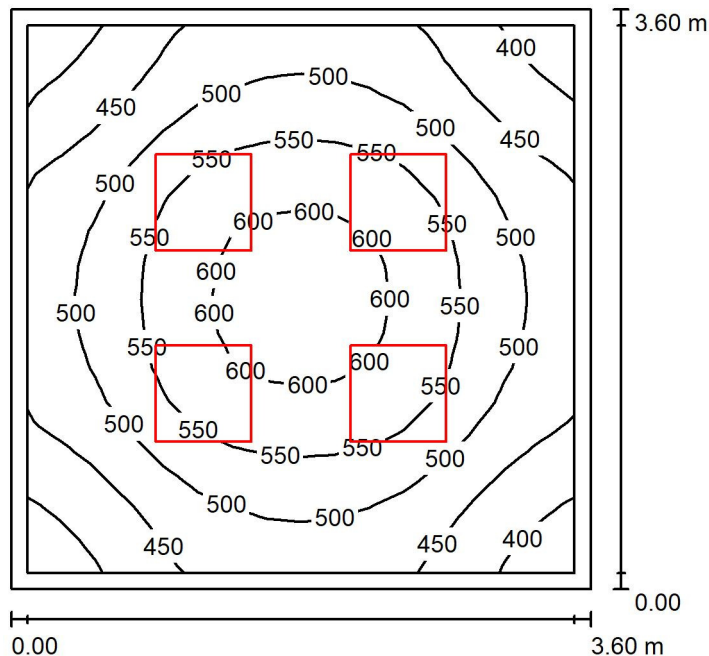
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	4	PXF Lighting PX3734658 PISA LED IP54 OPAL 595x595 38W 4000K (1.000)	4250	4250	38.0
Total:			17000	17000	152.0

Specific connected load: $13.19 \text{ W/m}^2 = 2.47 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 11.52 m^2)

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Kitchen / Summary



Height of Room: 2.987 m, Mounting Height: 2.987 m, Maintenance factor: 0.80

Values in Lux, Scale 1:47

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	508	377	622	0.742
Floor	20	496	329	625	0.664
Ceiling	70	160	107	178	0.669
Walls (4)	50	363	125	584	/

Workplane:

UGR

Lengthways-

Across

to luminaire axis

Height: 0.000 m
Grid: 16 x 16 Points
Boundary Zone: 0.100 m

Left Wall 18
Lower Wall 18
(CIE, SHR = 1.00.)

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.709, Ceiling / Working Plane: 0.315.

Luminaire Parts List

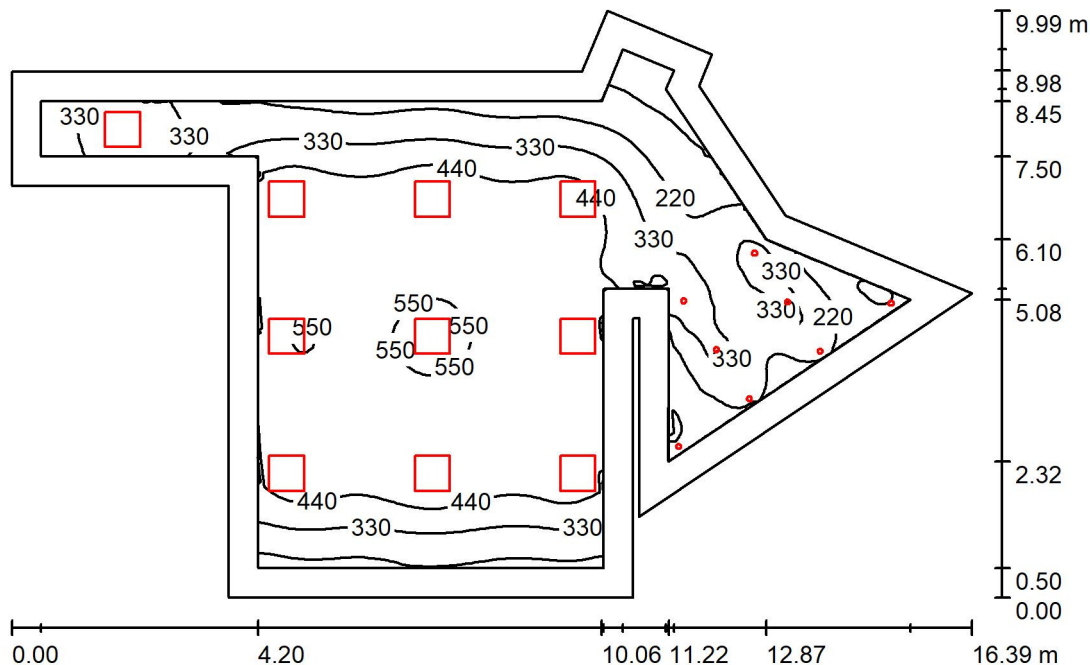
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	4	PXF Lighting PX3734658 PISA LED IP54 OPAL 595x595 38W 4000K (1.000)	4250	4250	38.0
Total:			17000	17000	152.0

Specific connected load: $11.73 \text{ W/m}^2 = 2.31 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 12.96 m^2)

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Informal Meeting/ Bar Area / Summary



Height of Room: 2.987 m, Mounting Height: 2.987 m, Maintenance factor: 0.80

Values in Lux, Scale 1:129

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	396	61	589	0.153
Floor	20	318	43	510	0.136
Ceiling	70	63	24	105	0.389
Walls (14)	50	111	22	405	/

Workplane:

Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.500 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.275, Ceiling / Working Plane: 0.159.

Luminaire Parts List

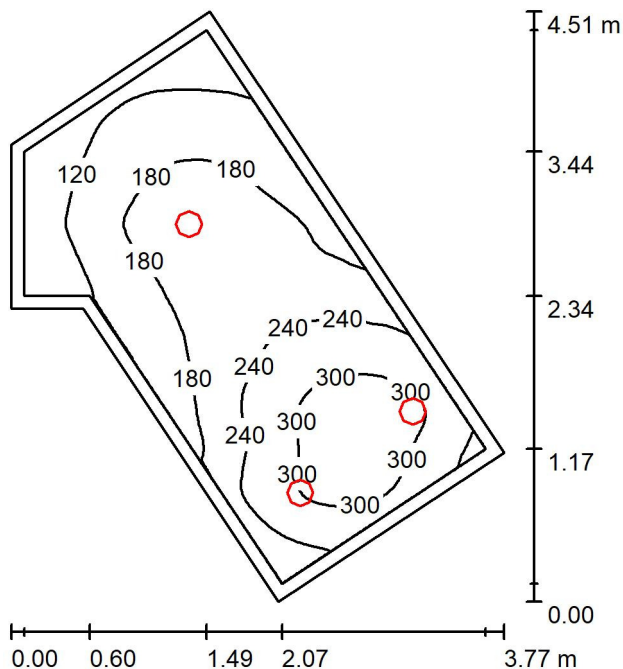
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	8	Plysi 4-9W-4000K-38D (1.000)	547	591	8.8
2	10	PXF Lighting PX2065508 SUN LED 596X596 4000K (1.000)	3800	3800	36.0
Total:			42373	42728	430.4

Specific connected load: $4.72 \text{ W/m}^2 = 1.19 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 91.11 m^2)

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Female WC / Summary



Height of Room: 2.987 m, Mounting Height: 2.987 m, Maintenance factor: 0.80

Values in Lux, Scale 1:58

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	207	67	337	0.325
Floor	20	199	53	337	0.267
Ceiling	70	26	16	37	0.619
Walls (6)	50	55	13	323	/

Workplane:

Height: 0.000 m
Grid: 64 x 64 Points
Boundary Zone: 0.100 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.263, Ceiling / Working Plane: 0.125.

Luminaire Parts List

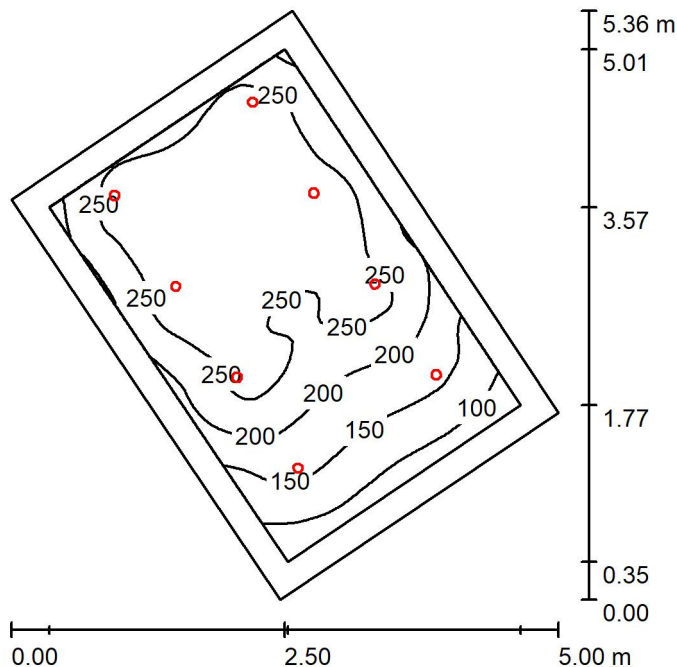
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	3	LB222-05-15W-4000K-40D (1.000)	1010	985	14.2
			Total: 3030	Total: 2955	42.6

Specific connected load: $4.97 \text{ W/m}^2 = 2.41 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 8.57 m^2)

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Entrance Hall / Summary



Height of Room: 2.987 m, Mounting Height: 2.987 m, Maintenance factor: 0.80

Values in Lux, Scale 1:69

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	219	67	291	0.305
Floor	20	199	46	292	0.232
Ceiling	70	29	20	35	0.679
Walls (4)	50	56	19	259	/

Workplane:

Height: 0.000 m
Grid: 64 x 64 Points
Boundary Zone: 0.250 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.255, Ceiling / Working Plane: 0.132.

Luminaire Parts List

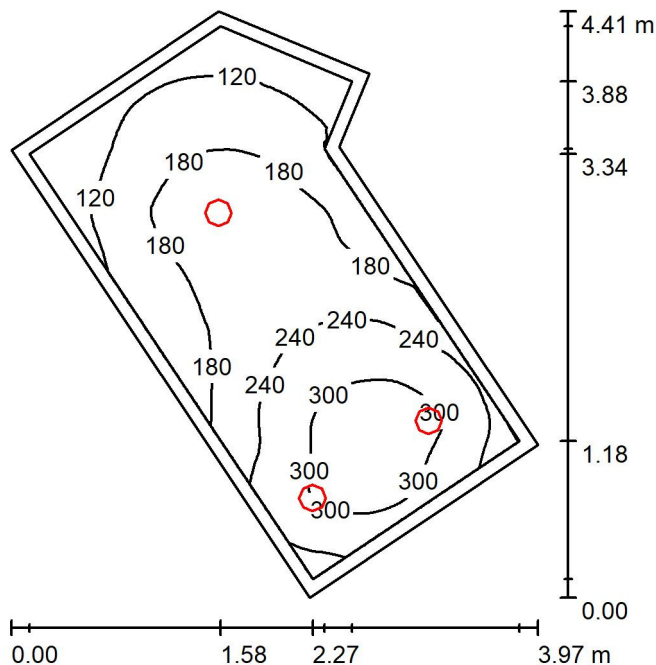
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	8	Plysi 4-9W-4000K-38D (1.000)	547	591	8.8
Total:			4373	4728	70.4

Specific connected load: $5.22 \text{ W/m}^2 = 2.39 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 13.49 m^2)

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Male WC / Summary



Height of Room: 2.987 m, Mounting Height: 2.987 m, Maintenance factor: 0.80

Values in Lux, Scale 1:57

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	206	63	336	0.305
Floor	20	198	55	336	0.277
Ceiling	70	25	15	35	0.609
Walls (6)	50	53	14	234	/

Workplane:

Height: 0.000 m
Grid: 64 x 64 Points
Boundary Zone: 0.100 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.258, Ceiling / Working Plane: 0.121.

Luminaire Parts List

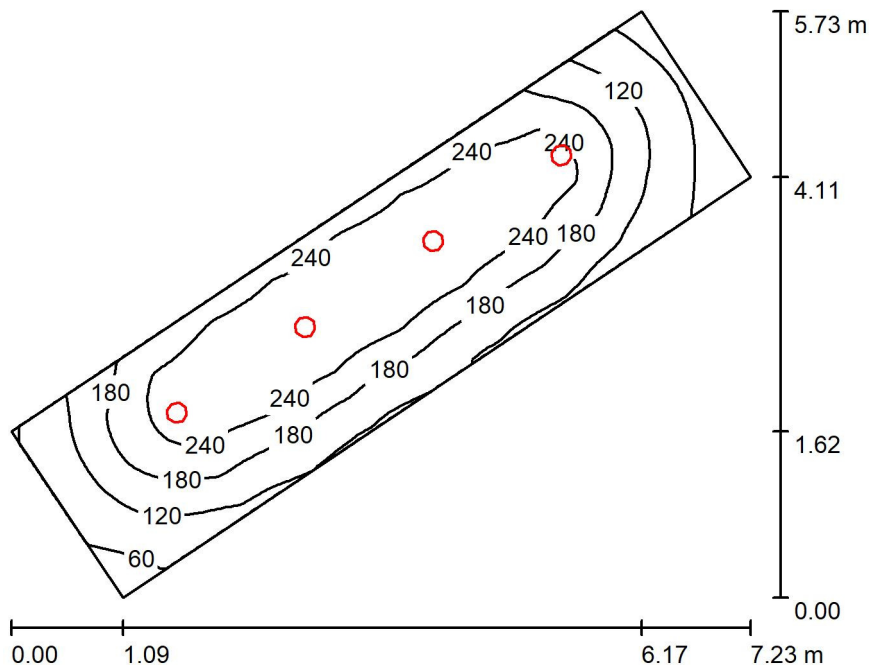
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	3	LB222-05-15W-4000K-40D (1.000)	1010	985	14.2
Total:			3030	2955	42.6

Specific connected load: $4.95 \text{ W/m}^2 = 2.40 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 8.61 m^2)

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Covered Porch / Summary



Height of Room: 2.800 m, Mounting Height: 2.800 m, Maintenance factor: 0.80

Values in Lux, Scale 1:74

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	188	28	301	0.149
Floor	20	188	29	301	0.156
Ceiling	70	21	13	28	0.637
Walls (4)	50	38	12	106	/

Workplane:

Height: 0.000 m
Grid: 128 x 32 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.202, Ceiling / Working Plane: 0.112.

Luminaire Parts List

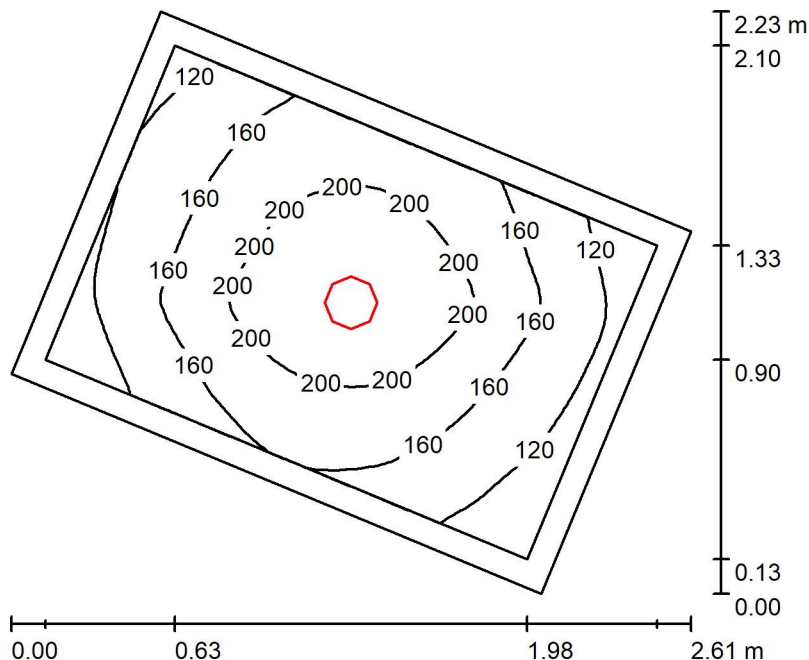
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	4	LB222-05-15W-4000K-40D (1.000)	1010	985	14.2
			Total: 4040	Total: 3940	56.8

Specific connected load: $3.94 \text{ W/m}^2 = 2.09 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 14.41 m^2)

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Acc WC / Summary



Height of Room: 2.800 m, Mounting Height: 2.800 m, Maintenance factor: 0.80

Values in Lux, Scale 1:29

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	166	85	240	0.512
Floor	20	155	73	240	0.467
Ceiling	70	14	12	16	0.809
Walls (4)	50	37	9.95	110	/

Workplane:

Height: 0.000 m
Grid: 32 x 32 Points
Boundary Zone: 0.100 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.222, Ceiling / Working Plane: 0.086.

Luminaire Parts List

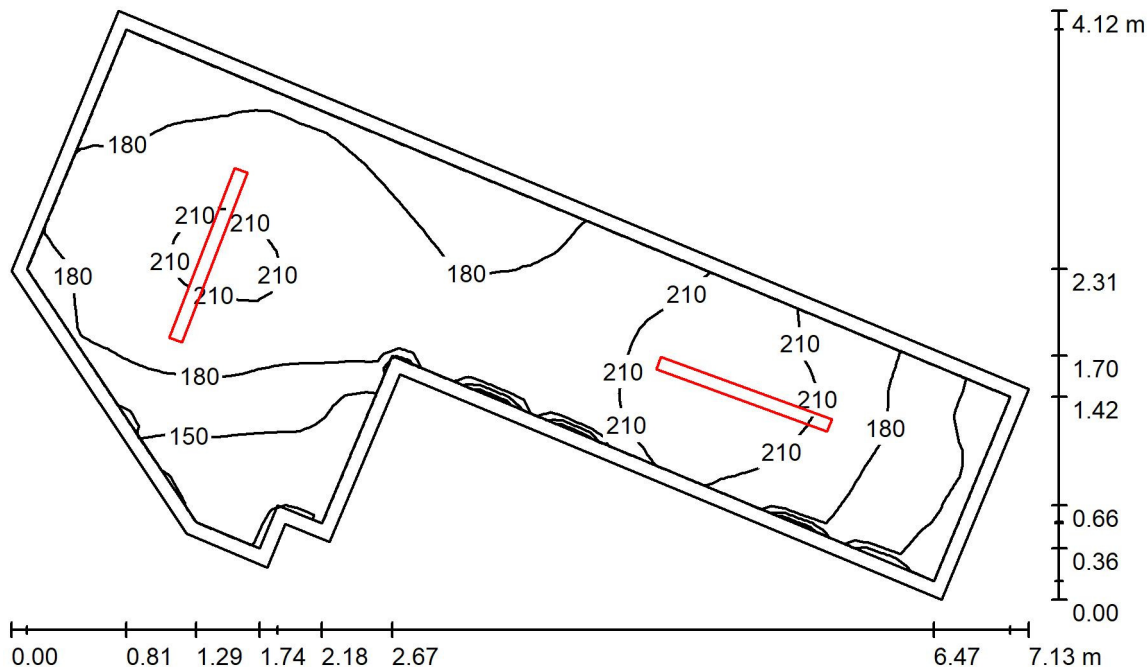
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LB222-05-15W-4000K-40D (1.000)	1010	985	14.2
Total:			1010	985	14.2

Specific connected load: $4.30 \text{ W/m}^2 = 2.59 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 3.30 m^2)

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Cellar/ General Store / Summary



Height of Room: 2.800 m, Mounting Height: 2.800 m, Maintenance factor: 0.80

Values in Lux, Scale 1:53

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	185	120	227	0.647
Floor	20	181	110	227	0.606
Ceiling	70	99	47	391	0.475
Walls (9)	50	155	70	502	/

Workplane:

Height: 0.000 m
Grid: 64 x 32 Points
Boundary Zone: 0.100 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.836, Ceiling / Working Plane: 0.535.

Luminaire Parts List

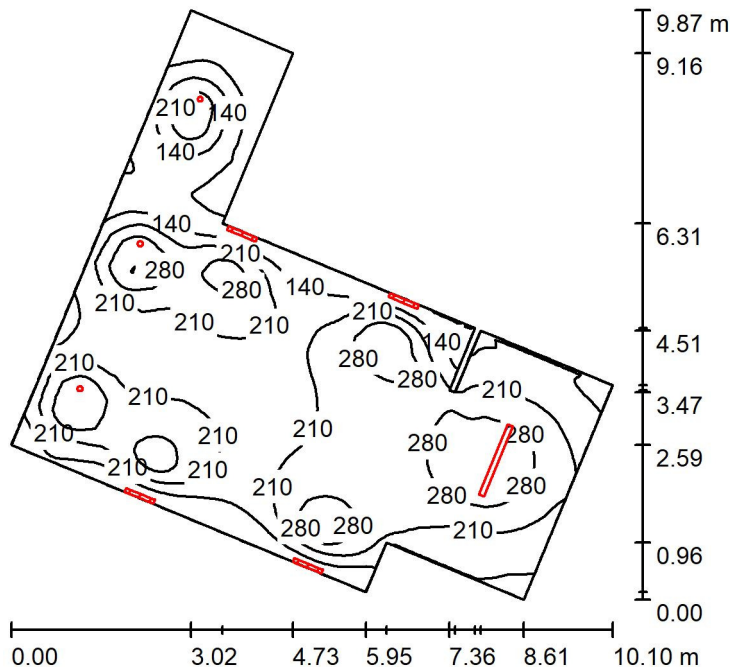
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	2	PXF Lighting PX2040157 FIBRA LED IP66 1272mm 1x 4000K (1.000)	4160	4160	30.0
Total:			8320	8320	60.0

Specific connected load: $4.21 \text{ W/m}^2 = 2.27 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 14.24 m^2)

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Changing 1 / Summary



Height of Room: 2.800 m, Maintenance factor: 0.80

Values in Lux, Scale 1:127

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
Workplane	/	199	20	359	0.103
Floor	20	168	26	249	0.157
Ceiling	70	117	17	347	0.142
Walls (12)	50	105	18	292	/

Workplane:

Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.547, Ceiling / Working Plane: 0.586.

Luminaire Parts List

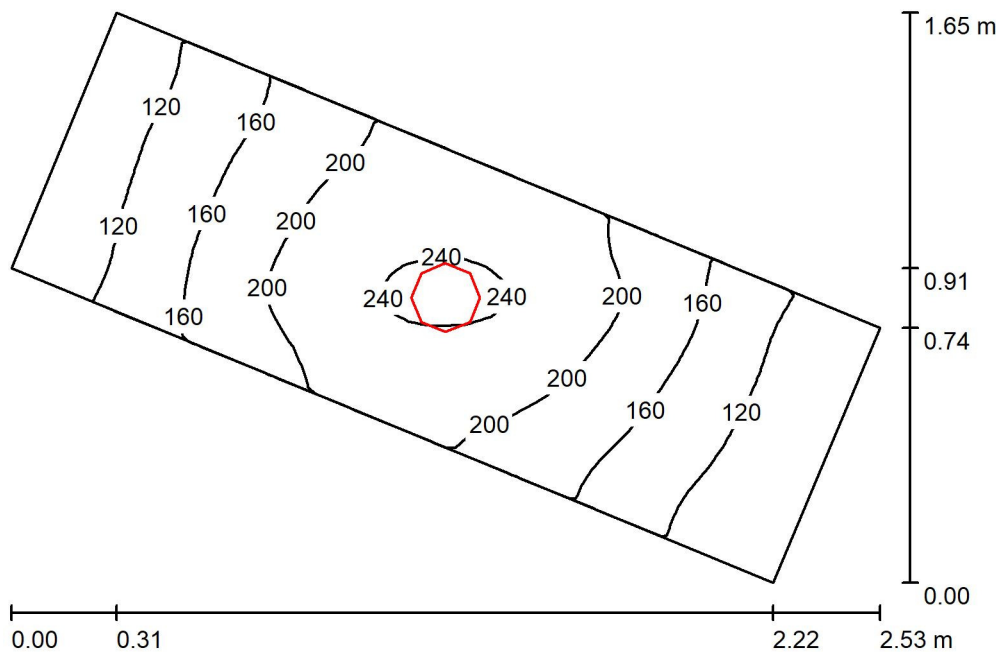
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	3	Plysi 4-9W-4000K-38D (1.000)	547	591	8.8
2	4	PXF Lighting PX0907535 FINESTRA RING 520 MPRM 4000K (1.000)	2650	2650	24.0
3	1	PXF Lighting PX2040157 FIBRA LED IP66 1272mm 1x 4000K (1.000)	4160	4160	30.0
Total:			16400	16533	152.4

Specific connected load: $3.30 \text{ W/m}^2 = 1.66 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 46.22 m^2)

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Changing 1 WC / Summary



Height of Room: 2.800 m, Mounting Height: 2.800 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	/	169	87	250	0.516
Floor	20	169	85	250	0.505
Ceiling	70	24	16	33	0.681
Walls (4)	50	60	16	354	/

Workplane:

Height: 0.000 m
Grid: 32 x 16 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.356, Ceiling / Working Plane: 0.142.

Luminaire Parts List

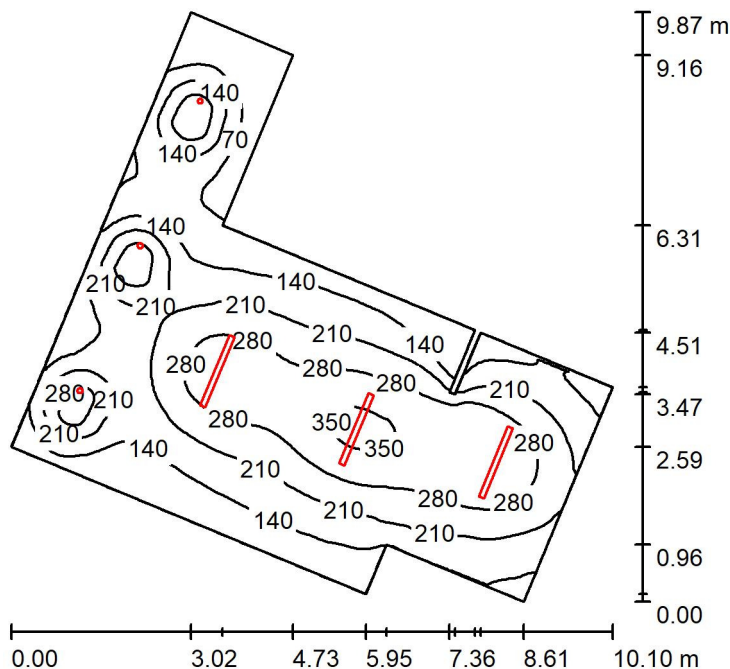
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	1	LB222-05-15W-4000K-40D (1.000)	1010	985	14.2
Total:			1010	985	14.2

Specific connected load: $7.37 \text{ W/m}^2 = 4.36 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 1.93 m^2)

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Changing 1 - Revised / Summary



Height of Room: 2.800 m, Mounting Height: 2.800 m, Maintenance factor: 0.80

Values in Lux, Scale 1:127

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	198	16	364	0.079
Floor	20	170	21	263	0.121
Ceiling	70	52	12	333	0.230
Walls (12)	50	85	13	238	/

Workplane:

Height: 0.750 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.427, Ceiling / Working Plane: 0.265.

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	3	Plysi 4-9W-4000K-38D (1.000)	547	591	8.8
2	3	PXF Lighting PX2040157 FIBRA LED IP66 1272mm 1x 4000K (1.000)	4160	4160	30.0
Total:			14120	14253	116.4

Specific connected load: $2.52 \text{ W/m}^2 = 1.27 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 46.22 m^2)