

## **NIJZ MURSKA SOBOTA**

Partner for Contact:  
Order No.:  
Company:  
Customer No.:

Date: 28.07.2021  
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SIGNIFY INTERNATIONAL B.V. Podružnica Zagreb

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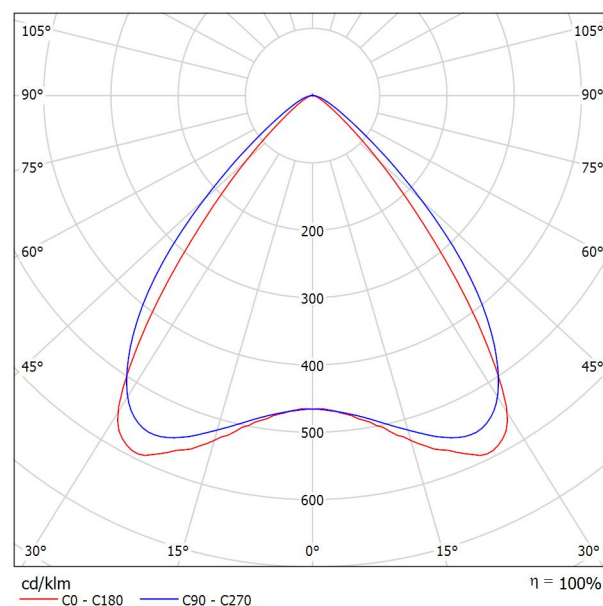
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e-Mail matjaz.dremel@signify.com**SIGNIFY W20L120 OC 0.6A SM136V 31S\_37S 1xSM136V 31S\_37S\_43S840 PSU W /  
Luminaire Data Sheet**

## Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.

Luminaire classification according to CIE: 100  
CIE flux code: 78 97 99 100 100

## Luminous emittance 1:

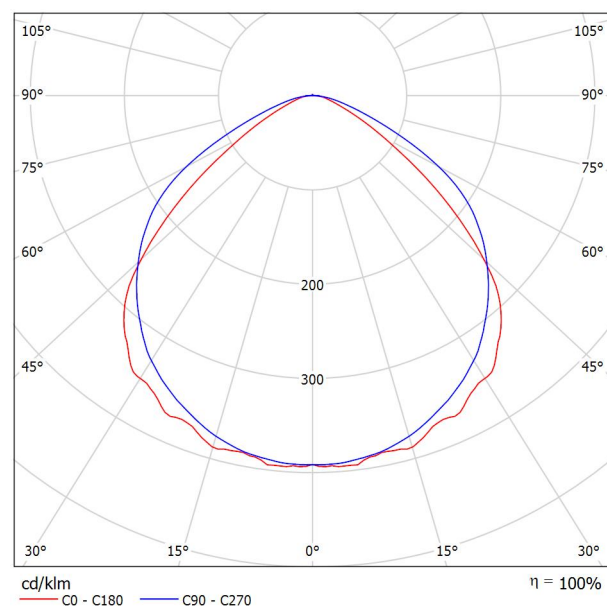
Glare Evaluation According to UGR											
$\rho$ Ceiling	70	70	50	50	30	70	70	50	50	30	30
$\rho$ Walls	50	30	50	30	30	50	30	50	30	30	30
$\rho$ Floor	20	20	20	20	20	20	20	20	20	20	20
Room Size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	16.3	17.2	16.6	17.4	17.6	17.8	18.7	18.1	18.9	19.2
	3H	16.3	17.1	16.5	17.3	17.5	17.9	18.7	18.2	18.9	19.2
	4H	16.2	17.0	16.5	17.2	17.5	17.9	18.7	18.2	18.9	19.2
	6H	16.2	16.9	16.5	17.2	17.5	17.9	18.6	18.3	18.9	19.2
	8H	16.2	16.8	16.5	17.1	17.4	17.9	18.6	18.3	18.9	19.2
4H	12H	16.1	16.8	16.5	17.1	17.4	17.9	18.5	18.3	18.9	19.2
	2H	16.2	17.0	16.6	17.3	17.5	17.7	18.5	18.0	18.7	19.0
	3H	16.2	16.9	16.6	17.2	17.5	17.8	18.5	18.2	18.8	19.1
	4H	16.2	16.8	16.6	17.1	17.5	17.9	18.4	18.3	18.8	19.1
	6H	16.2	16.7	16.6	17.0	17.4	17.9	18.4	18.4	18.8	19.2
8H	12H	16.2	16.6	16.6	17.0	17.4	18.0	18.4	18.4	18.8	19.2
	2H	16.2	16.6	16.6	17.0	17.4	18.0	18.4	18.4	18.8	19.2
	4H	16.2	16.6	16.6	17.0	17.4	17.8	18.2	18.2	18.6	19.0
	6H	16.2	16.5	16.6	16.9	17.4	17.9	18.2	18.4	18.7	19.1
	8H	16.2	16.5	16.7	16.9	17.4	18.0	18.2	18.4	18.7	19.2
12H	12H	16.2	16.4	16.7	16.9	17.4	18.0	18.2	18.5	18.7	19.2
	4H	16.2	16.5	16.6	16.9	17.4	17.8	18.2	18.2	18.6	19.0
	6H	16.2	16.5	16.6	16.9	17.4	17.9	18.2	18.3	18.6	19.1
	8H	16.2	16.4	16.7	16.9	17.4	17.9	18.2	18.4	18.6	19.1
Variation of the observer position for the luminaire distances S											
S = 1.0H	+2.5 / -4.4					+1.4 / -2.7					
S = 1.5H	+4.7 / -5.9					+3.2 / -4.2					
S = 2.0H	+6.6 / -7.0					+5.1 / -5.1					
Standard table	BK01					BK01					
Correction Summand	-1.6					-0.1					
Corrected Glare Indices referring to 3840lm Total Luminous Flux											

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Luminaire Data Sheet**

## Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.

Luminaire classification according to CIE: 100  
CIE flux code: 55 88 98 100 100

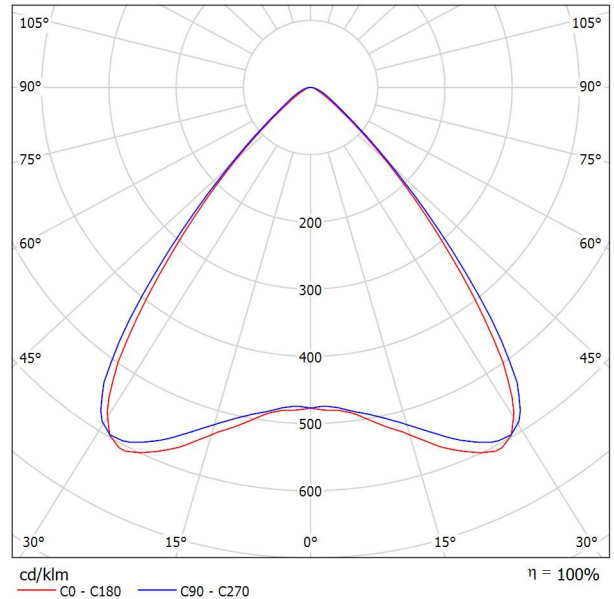
## Luminous emittance 1:

Glare Evaluation According to UGR											
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room Size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	18.9	20.1	19.2	20.3	20.5	20.3	21.5	20.6	21.8	22.0
	3H	19.2	20.2	19.5	20.5	20.8	21.1	22.2	21.4	22.4	22.7
	4H	19.2	20.2	19.6	20.5	20.8	21.3	22.3	21.7	22.6	22.9
	6H	19.3	20.2	19.6	20.5	20.8	21.5	22.4	21.8	22.7	23.0
	8H	19.3	20.2	19.7	20.5	20.8	21.5	22.4	21.9	22.7	23.0
4H	12H	19.3	20.2	19.7	20.5	20.8	21.5	22.4	21.9	22.7	23.1
	2H	19.3	20.3	19.6	20.6	20.8	20.5	21.5	20.9	21.8	22.1
	3H	19.7	20.5	20.1	20.9	21.2	21.4	22.3	21.8	22.6	22.9
	4H	19.8	20.6	20.2	20.9	21.3	21.8	22.5	22.2	22.9	23.2
	6H	20.0	20.6	20.4	21.0	21.4	22.0	22.7	22.5	23.1	23.5
8H	12H	20.0	20.6	20.4	21.0	21.4	22.1	22.7	22.6	23.1	23.5
	2H	20.0	20.6	20.5	21.0	21.4	22.2	22.7	22.6	23.1	23.6
	3H	20.0	20.6	20.4	21.0	21.4	21.8	22.4	22.2	22.8	23.2
	4H	20.2	20.6	20.6	21.1	21.5	22.2	22.6	22.6	23.1	23.5
	6H	20.3	20.7	20.7	21.1	21.6	22.3	22.7	22.8	23.2	23.7
12H	12H	20.3	20.7	20.8	21.2	21.7	22.4	22.8	22.9	23.3	23.8
	4H	20.0	20.5	20.4	20.9	21.4	21.8	22.3	22.2	22.7	23.2
	6H	20.2	20.6	20.7	21.1	21.5	22.2	22.6	22.6	23.0	23.5
8H		20.3	20.7	20.8	21.1	21.6	22.3	22.7	22.8	23.2	23.7
Variation of the observer position for the luminaire distances S											
S = 1.0H		+0.5 / -0.7					+0.2 / -0.3				
S = 1.5H		+1.0 / -2.0					+0.6 / -0.8				
S = 2.0H		+1.9 / -3.1					+1.3 / -1.6				
Standard table		BK02					BK03				
Correction Summand		2.3					4.6				
Corrected Glare Indices referring to 3090lm Total Luminous Flux											

SIGNIFY INTERNATIONAL B.V. Podružnica Zagreb

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e-Mail matjaz.dremel@signify.com**PHILIPS RC136B PSD W60L60 1 x31S\_37S\_43S/840 OC / Luminaire Data Sheet****Luminous emittance 1:**

See our luminaire catalog for an image of the luminaire.

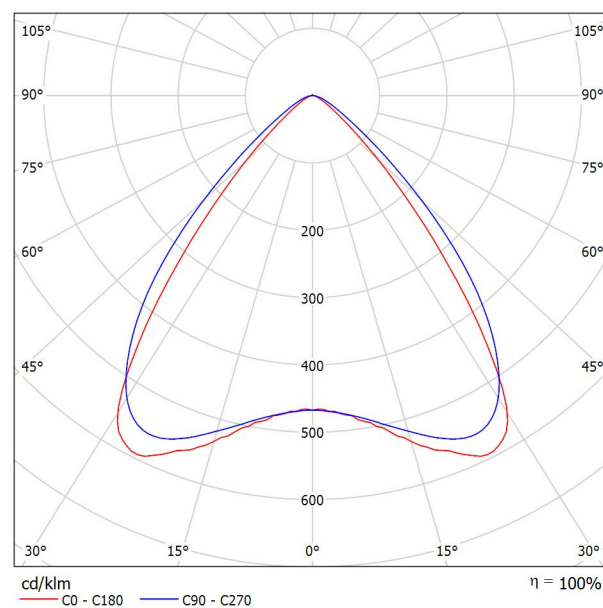
Luminaire classification according to CIE: 100  
CIE flux code: 81 97 99 100 100**Luminous emittance 1:**

Glare Evaluation According to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	
p Walls		50	30	50	30	30	50	30	50	30	30	
p Floor		20	20	20	20	20	20	20	20	20	20	
Room Size X                  Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	17.5	18.4	17.8	18.6	18.8	18.3	19.2	18.5	19.4	19.6	
	3H	17.4	18.2	17.7	18.5	18.7	18.3	19.1	18.6	19.3	19.6	
	4H	17.4	18.1	17.7	18.4	18.7	18.3	19.0	18.6	19.3	19.6	
	6H	17.3	18.0	17.7	18.3	18.6	18.3	19.0	18.6	19.3	19.6	
	8H	17.3	18.0	17.7	18.3	18.6	18.3	18.9	18.6	19.2	19.5	
	12H	17.3	17.9	17.6	18.2	18.5	18.3	18.9	18.6	19.2	19.5	
4H	2H	17.4	18.1	17.7	18.4	18.7	18.1	18.9	18.5	19.1	19.4	
	3H	17.4	18.0	17.7	18.3	18.6	18.2	18.8	18.6	19.1	19.4	
	4H	17.3	17.9	17.7	18.2	18.5	18.3	18.8	18.6	19.1	19.5	
	6H	17.3	17.7	17.7	18.1	18.5	18.3	18.7	18.7	19.1	19.5	
	8H	17.3	17.7	17.7	18.1	18.5	18.3	18.7	18.7	19.1	19.5	
	12H	17.2	17.6	17.7	18.0	18.4	18.3	18.7	18.7	19.1	19.5	
8H	4H	17.3	17.7	17.7	18.1	18.5	18.2	18.6	18.6	19.0	19.4	
	6H	17.2	17.6	17.7	18.0	18.4	18.2	18.6	18.7	19.0	19.4	
	8H	17.2	17.5	17.7	17.9	18.4	18.3	18.5	18.7	19.0	19.5	
	12H	17.2	17.4	17.7	17.9	18.4	18.3	18.5	18.8	19.0	19.5	
12H	4H	17.2	17.6	17.7	18.0	18.4	18.1	18.5	18.6	18.9	19.3	
	6H	17.2	17.5	17.7	17.9	18.4	18.2	18.5	18.7	18.9	19.4	
	8H	17.2	17.4	17.7	17.9	18.4	18.2	18.5	18.7	18.9	19.4	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+2.7 / -5.2					+2.3 / -3.8					
S = 1.5H		+5.1 / -7.2					+4.6 / -4.9					
S = 2.0H		+7.1 / -8.4					+6.5 / -5.7					
Standard table		BK00					BK01					
Correction Summand		-0.9					0.3					
Corrected Glare Indices referring to 3100lm Total Luminous Flux												

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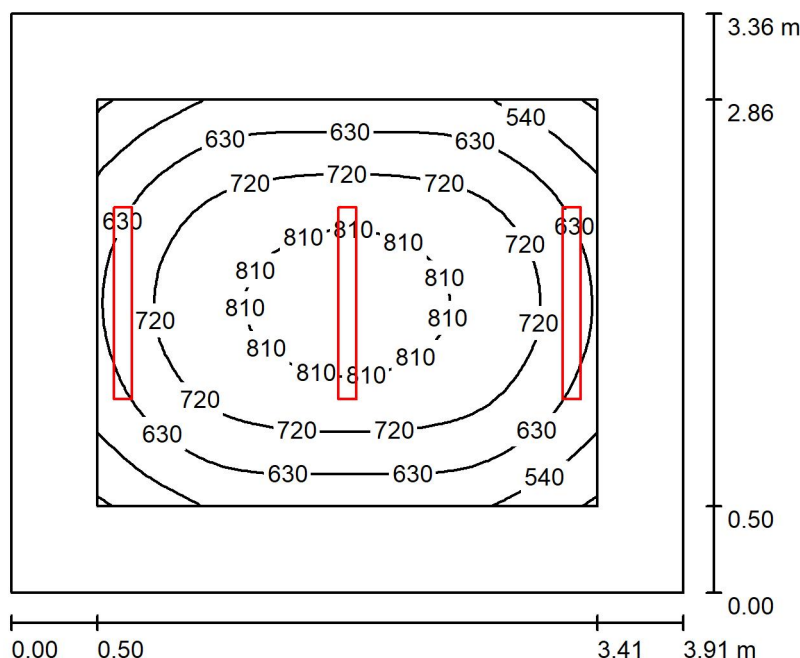
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Luminaire Data Sheet****Luminous emittance 1:**

See our luminaire catalog for an image of the luminaire.

Luminaire classification according to CIE: 100  
CIE flux code: 78 97 99 100 100**Luminous emittance 1:**

Glare Evaluation According to UGR											
ρ Ceiling		70	70	50	50	30	70	70	50	50	30
ρ Walls		50	30	50	30	30	50	30	50	30	30
ρ Floor		20	20	20	20	20	20	20	20	20	20
Room Size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	16.8	17.7	17.1	17.9	18.1	18.3	19.2	18.6	19.4	19.6
	3H	16.7	17.6	17.0	17.8	18.0	18.4	19.2	18.7	19.4	19.7
	4H	16.7	17.5	17.0	17.7	18.0	18.4	19.2	18.7	19.4	19.7
	6H	16.7	17.4	17.0	17.7	17.9	18.4	19.1	18.7	19.4	19.7
	8H	16.6	17.3	17.0	17.6	17.9	18.4	19.1	18.8	19.4	19.7
4H	12H	16.6	17.3	17.0	17.6	17.9	18.4	19.0	18.8	19.3	19.7
	2H	16.7	17.5	17.1	17.8	18.0	18.2	19.0	18.5	19.2	19.5
	3H	16.7	17.4	17.1	17.7	18.0	18.3	18.9	18.7	19.2	19.6
	4H	16.7	17.3	17.1	17.6	18.0	18.4	18.9	18.8	19.3	19.6
	6H	16.7	17.2	17.1	17.5	17.9	18.4	18.9	18.8	19.3	19.7
8H	8H	16.7	17.1	17.1	17.5	17.9	18.5	18.9	18.9	19.3	19.7
	12H	16.7	17.0	17.1	17.5	17.9	18.5	18.8	18.9	19.2	19.7
	4H	16.7	17.1	17.1	17.5	17.9	18.3	18.7	18.7	19.1	19.5
	6H	16.7	17.0	17.1	17.4	17.9	18.4	18.7	18.8	19.2	19.6
	8H	16.7	17.0	17.1	17.4	17.9	18.4	18.7	18.9	19.2	19.6
12H	12H	16.7	16.9	17.2	17.4	17.9	18.5	18.7	19.0	19.2	19.7
	4H	16.7	17.0	17.1	17.4	17.9	18.3	18.6	18.7	19.0	19.5
	6H	16.7	17.0	17.1	17.4	17.9	18.4	18.6	18.8	19.1	19.6
	8H	16.7	16.9	17.2	17.4	17.9	18.4	18.7	18.9	19.1	19.6
Variation of the observer position for the luminaire distances S											
S = 1.0H		+2.5 / -4.4					+1.4 / -2.7				
S = 1.5H		+4.7 / -6.0					+3.2 / -4.2				
S = 2.0H		+6.6 / -7.0					+5.1 / -5.1				
Standard table		BK01					BK01				
Correction Summand		-1.1					0.4				
Corrected Glare Indices referring to 4416lm Total Luminous Flux											

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Height of Room: 2.900 m, Mounting Height: 2.900 m, Light loss factor: 0.80

Values in Lux, Scale 1:44

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u0$
Workplane	/	689	443	859	0.643
Floor	20	449	290	577	0.647
Ceiling	70	89	63	103	0.706
Walls (4)	50	196	64	577	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m

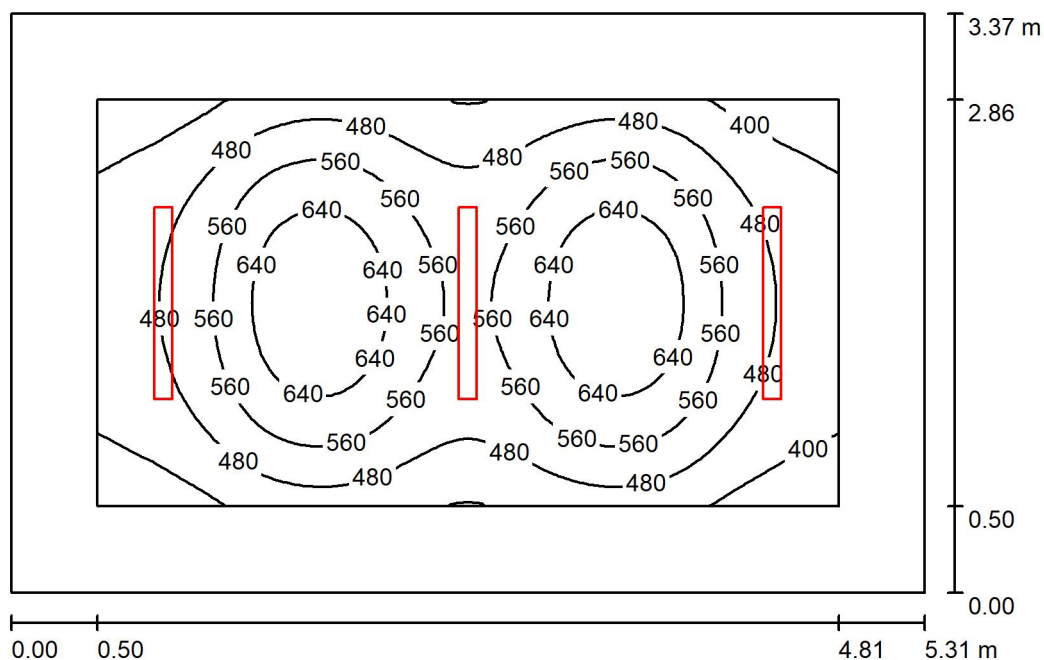
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.269, Ceiling / Working Plane: 0.129.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	SIGNIFY W20L120 OC 0.6A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	3840	3840	25.2
Total:			11519	11520	75.6

Specific connected load:  $5.75 \text{ W/m}^2 = 0.83 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $13.15 \text{ m}^2$ )

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Height of Room: 2.900 m, Mounting Height: 2.900 m, Light loss factor: 0.80

Values in Lux, Scale 1:44

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	524	334	702	0.638
Floor	20	359	219	482	0.610
Ceiling	70	67	48	77	0.714
Walls (4)	50	147	51	359	/

**Workplane:**Height: 0.850 m  
Grid: 64 x 32 Points  
Boundary Zone: 0.500 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.255, Ceiling / Working Plane: 0.128.

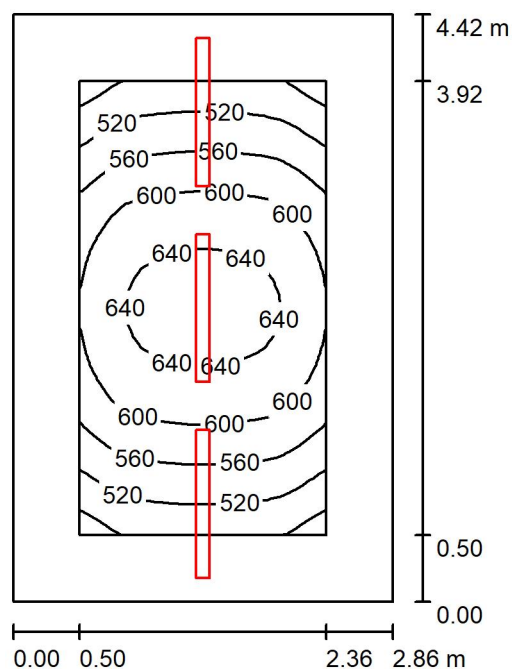
**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	SIGNIFY W20L120 OC 0.6A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	3840	3840	25.2
Total:			11519	11520	75.6

Specific connected load:  $4.23 \text{ W/m}^2 = 0.81 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $17.87 \text{ m}^2$ )



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Height of Room: 3.300 m, Mounting Height: 3.300 m, Light loss factor: 0.80

Values in Lux, Scale 1:57

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	580	460	655	0.793
Floor	20	397	301	464	0.758
Ceiling	70	88	62	137	0.700
Walls (4)	50	201	65	927	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 16 Points  
Boundary Zone: 0.500 m**UGR**Left Wall  
Lower Wall  
(CIE, SHR = 0.25.)**Lengthways-**16  
16**Across**18  
18**to luminaire axis**

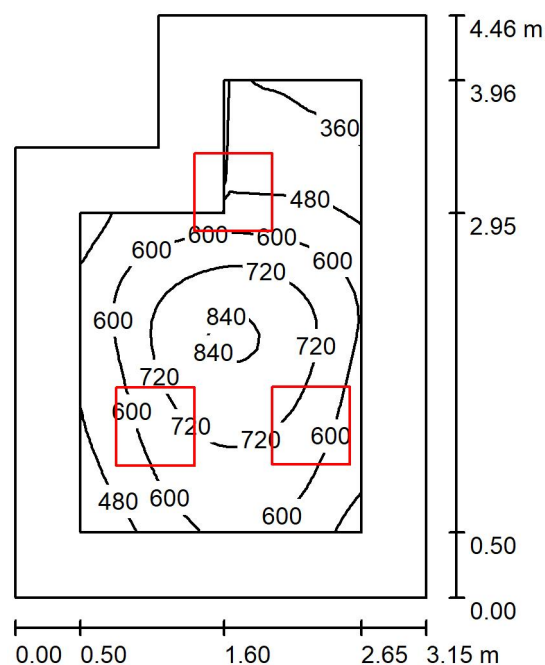
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.335, Ceiling / Working Plane: 0.152.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	SIGNIFY W20L120 OC 0.6A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	3840	3840	25.2
Total:			11519	11520	75.6

Specific connected load:  $5.98 \text{ W/m}^2 = 1.03 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $12.65 \text{ m}^2$ )

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Ulica Josipa Marohnića 1  
10000 ZagrebOperator Matjaž DREMEL  
Telephone +385 91 200 2202  
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e-Mail matjaz.dremel@signify.com**PRITLIČJE\_PISARNA / Summary**

Height of Room: 2.850 m, Mounting Height: 2.850 m, Light loss factor: 0.80

Values in Lux, Scale 1:58

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	603	288	857	0.478
Floor	20	383	184	501	0.481
Ceiling	70	66	43	80	0.644
Walls (6)	50	146	46	485	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m

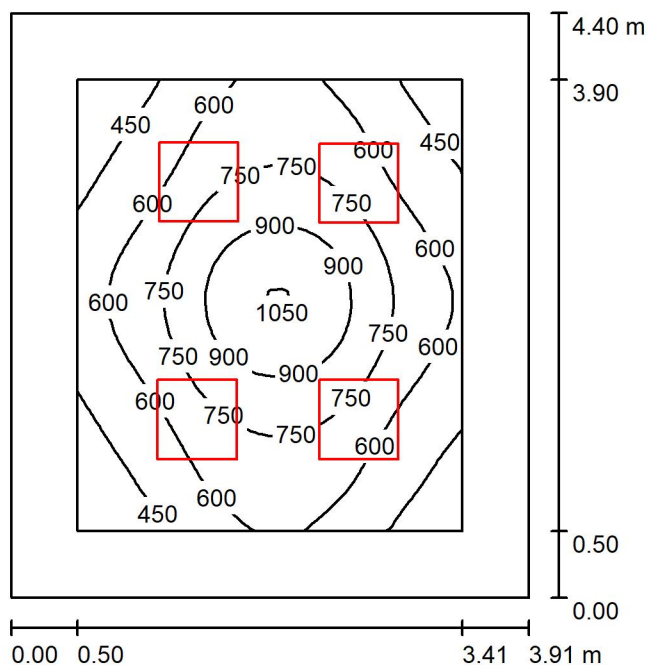
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.211, Ceiling / Working Plane: 0.109.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	PHILIPS RC136B PSD W60L60 1 x31S_37S_43S/840 OC (1.000)	3093	3100	22.0
Total:			9279	9300	66.0

Specific connected load:  $5.10 \text{ W/m}^2 = 0.85 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $12.94 \text{ m}^2$ )

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Height of Room: 2.850 m, Mounting Height: 2.850 m, Light loss factor: 0.80

Values in Lux, Scale 1:57

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	656	327	1064	0.498
Floor	20	438	211	633	0.481
Ceiling	70	71	49	84	0.686
Walls (4)	50	147	54	307	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m

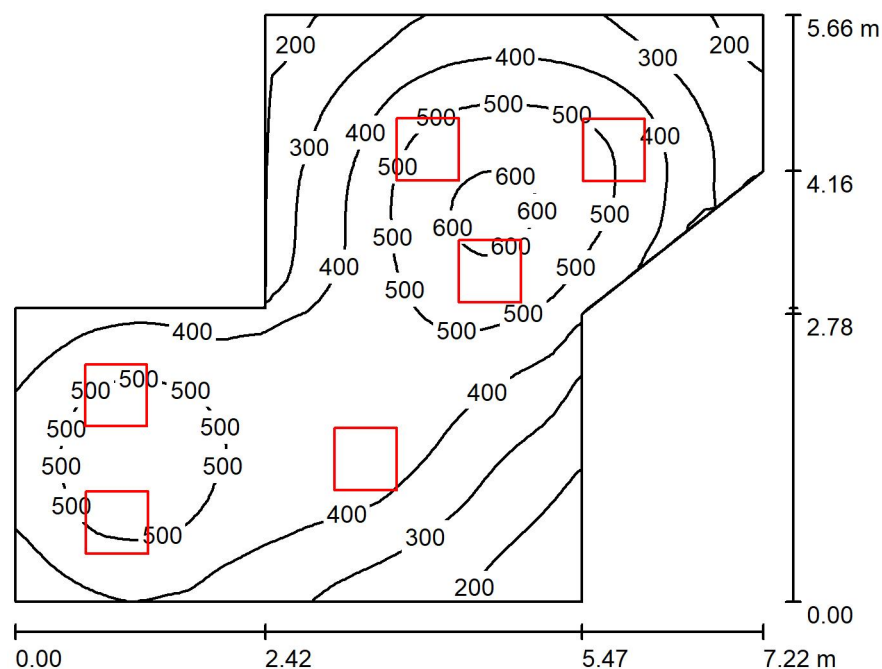
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.185, Ceiling / Working Plane: 0.109.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	4	PHILIPS RC136B PSD W60L60 1 x31S_37S_43S/840 OC (1.000)	3093	3100	22.0
Total:			12372	12400	88.0

Specific connected load:  $5.12 \text{ W/m}^2 = 0.78 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $17.19 \text{ m}^2$ )

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Height of Room: 2.850 m, Mounting Height: 2.850 m, Light loss factor: 0.80

Values in Lux, Scale 1:73

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	409	130	623	0.318
Floor	20	331	152	432	0.461
Ceiling	70	83	52	172	0.621
Walls (8)	50	192	63	629	/

**Workplane:**Height: 0.850 m  
Grid: 64 x 64 Points  
Boundary Zone: 0.000 m

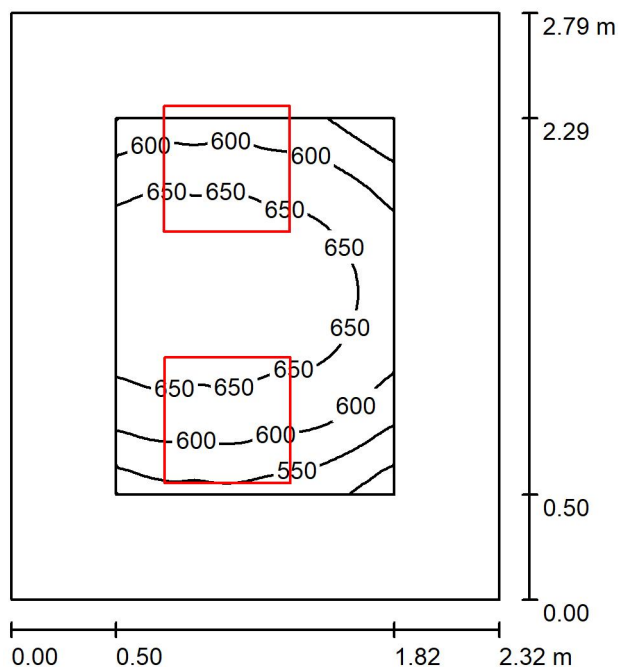
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.477, Ceiling / Working Plane: 0.204.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	6	PHILIPS RC136B PSU W60L60 1 x31S/840 NOC (1.000)	3102	3100	22.0
Total:			18614	18600	132.0

Specific connected load:  $4.72 \text{ W/m}^2 = 1.16 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $27.96 \text{ m}^2$ )

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Height of Room: 2.850 m, Mounting Height: 2.850 m, Light loss factor: 0.80

Values in Lux, Scale 1:36

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	626	475	684	0.759
Floor	20	369	285	401	0.772
Ceiling	70	81	56	97	0.698
Walls (4)	50	197	58	525	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m

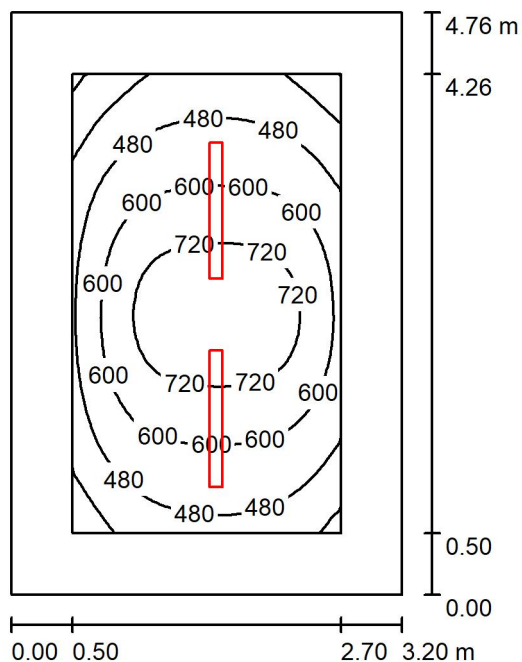
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.299, Ceiling / Working Plane: 0.129.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	2	PHILIPS RC136B PSD W60L60 1 x31S_37S_43S/840 OC (1.000)	3093	3100	22.0
Total:			6186	6200	44.0

Specific connected load:  $6.79 \text{ W/m}^2 = 1.08 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $6.48 \text{ m}^2$ )

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Height of Room: 2.750 m, Mounting Height: 2.750 m, Light loss factor: 0.80

Values in Lux, Scale 1:62

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u0$
Workplane	/	573	222	816	0.388
Floor	20	351	153	477	0.437
Ceiling	70	55	38	65	0.688
Walls (4)	50	115	40	248	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m

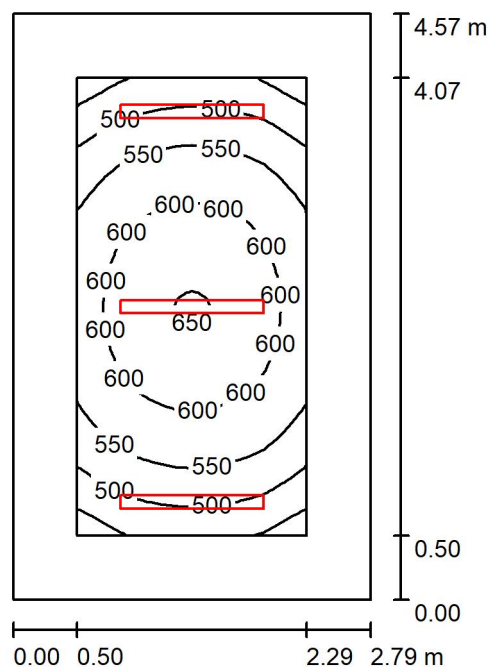
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.156, Ceiling / Working Plane: 0.096.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	2	SIGNIFY W20L120 OC 0.7A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	4416	4416	29.2
Total:			8832	8832	58.4

Specific connected load:  $3.83 \text{ W/m}^2 = 0.67 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $15.24 \text{ m}^2$ )

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Height of Room: 3.300 m, Mounting Height: 3.300 m, Light loss factor: 0.80

Values in Lux, Scale 1:59

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	561	424	655	0.755
Floor	20	385	276	475	0.716
Ceiling	70	87	65	100	0.743
Walls (4)	50	203	69	469	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 16 Points  
Boundary Zone: 0.500 m**UGR**Left Wall  
Lower Wall  
(CIE, SHR = 0.25.)**Lengthways-**16  
16**Across**18  
18**to luminaire axis**

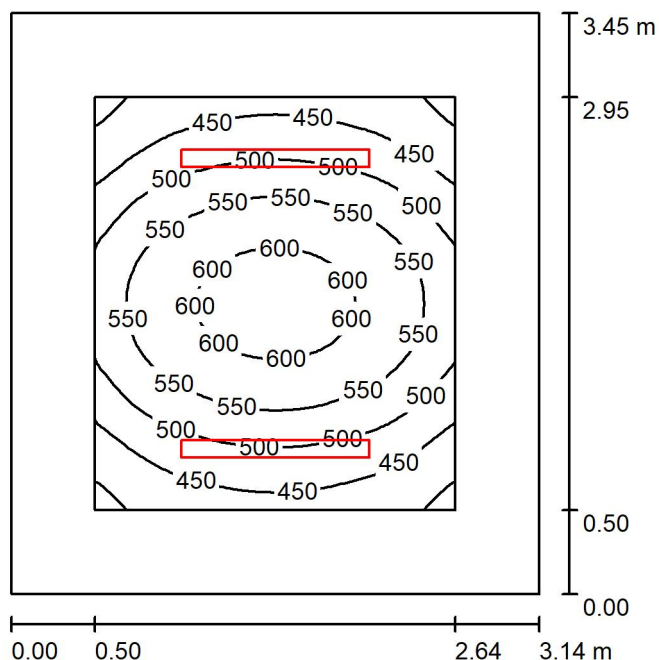
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.364, Ceiling / Working Plane: 0.156.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	SIGNIFY W20L120 OC 0.6A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	3840	3840	25.2
Total:			11519	11520	75.6

Specific connected load:  $5.93 \text{ W/m}^2 = 1.06 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $12.75 \text{ m}^2$ )

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Height of Room: 3.300 m, Mounting Height: 3.300 m, Light loss factor: 0.80

Values in Lux, Scale 1:45

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u0$
Workplane	/	516	384	620	0.744
Floor	20	340	254	391	0.745
Ceiling	70	76	54	376	0.709
Walls (4)	50	177	63	431	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.340, Ceiling / Working Plane: 0.147.

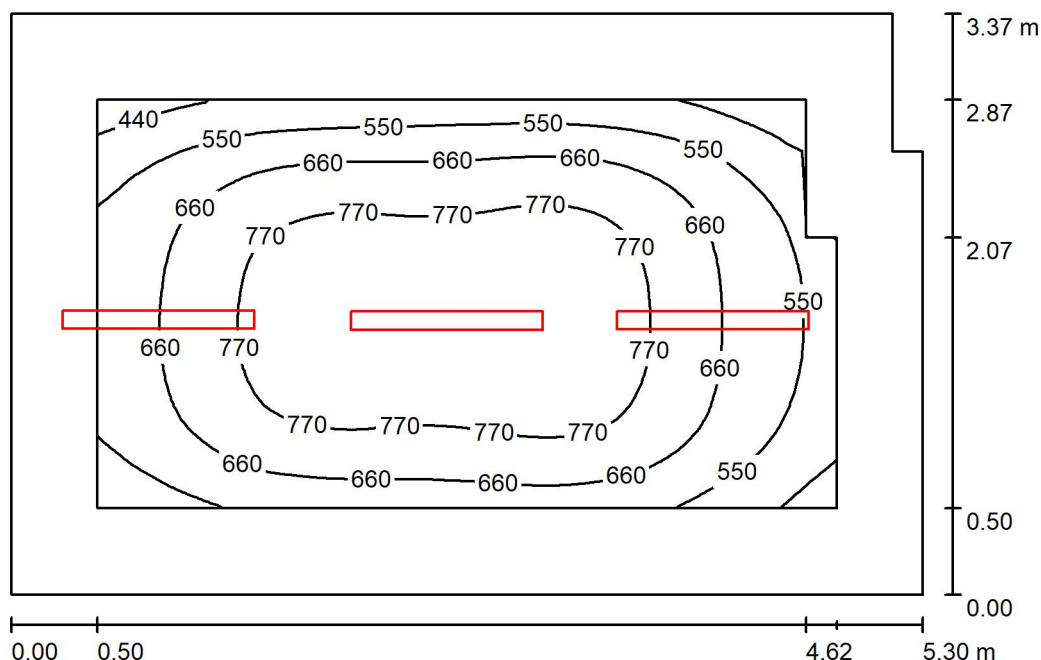
**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	2	SIGNIFY W20L120 OC 0.7A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	4416	4416	29.2
Total:			8832	8832	58.4

Specific connected load:  $5.38 \text{ W/m}^2 = 1.04 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $10.85 \text{ m}^2$ )



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Height of Room: 2.850 m, Mounting Height: 2.850 m, Light loss factor: 0.80

Values in Lux, Scale 1:44

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	675	345	845	0.510
Floor	20	441	230	581	0.522
Ceiling	70	75	49	105	0.655
Walls (6)	50	157	52	651	/

**Workplane:**Height: 0.850 m  
Grid: 64 x 32 Points  
Boundary Zone: 0.500 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.198, Ceiling / Working Plane: 0.112.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	SIGNIFY W20L120 OC 0.7A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	4416	4416	29.2
Total:			13248	13248	87.6

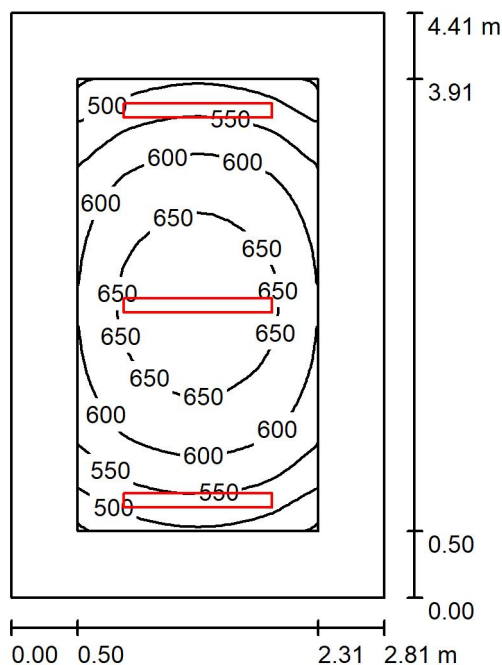
Specific connected load:  $4.94 \text{ W/m}^2 = 0.73 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $17.74 \text{ m}^2$ )

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## NADSTROPJE\_PISARNA N8 / Summary



Height of Room: 3.200 m, Mounting Height: 3.200 m, Light loss factor: 0.80

Values in Lux, Scale 1:57

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	599	449	698	0.750
Floor	20	405	290	501	0.715
Ceiling	70	90	68	103	0.752
Walls (4)	50	209	71	493	/

### Workplane:

Height: 0.850 m  
Grid: 32 x 16 Points  
Boundary Zone: 0.500 m

### UGR

Left Wall 16  
Lower Wall 16  
(CIE, SHR = 0.25.)

Lengthways- 16  
Across 18  
to luminaire axis

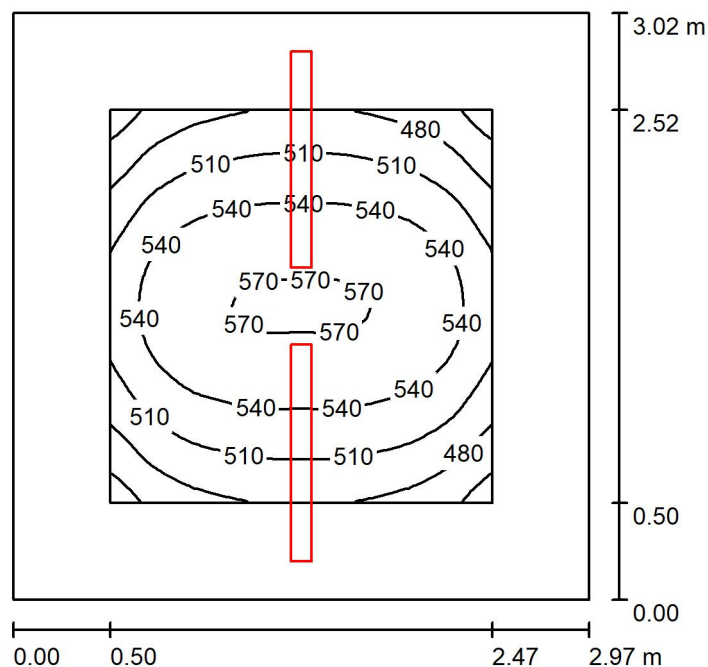
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.346, Ceiling / Working Plane: 0.151.

### Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	SIGNIFY W20L120 OC 0.6A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	3840	3840	25.2
Total:			11519	11520	75.6

Specific connected load:  $6.11 \text{ W/m}^2 = 1.02 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $12.38 \text{ m}^2$ )

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Height of Room: 3.200 m, Mounting Height: 3.200 m, Light loss factor: 0.80

Values in Lux, Scale 1:39

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	524	434	573	0.827
Floor	20	336	271	366	0.806
Ceiling	70	81	53	119	0.659
Walls (4)	50	183	58	836	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m

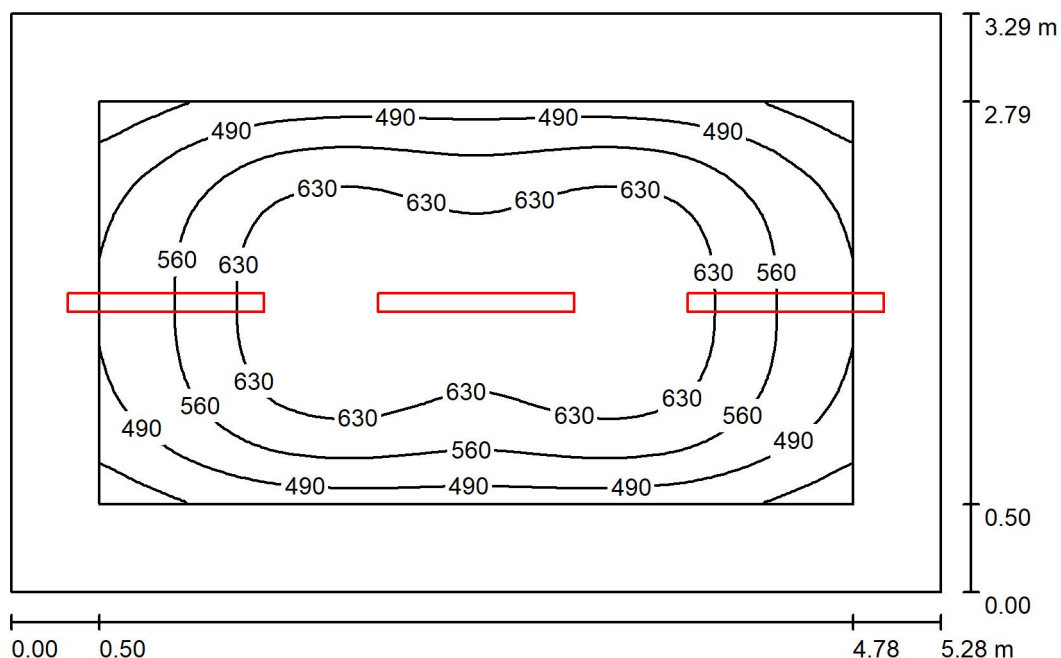
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.338, Ceiling / Working Plane: 0.154.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	2	SIGNIFY W20L120 OC 0.6A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	3840	3840	25.2
Total:			7679	7680	50.4

Specific connected load:  $5.61 \text{ W/m}^2 = 1.07 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $8.98 \text{ m}^2$ )

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Height of Room: 2.850 m, Mounting Height: 2.850 m, Light loss factor: 0.80

Values in Lux, Scale 1:43

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	573	368	693	0.642
Floor	20	380	233	480	0.612
Ceiling	70	69	48	91	0.702
Walls (4)	50	145	50	527	/

**Workplane:**Height: 0.850 m  
Grid: 64 x 32 Points  
Boundary Zone: 0.500 m

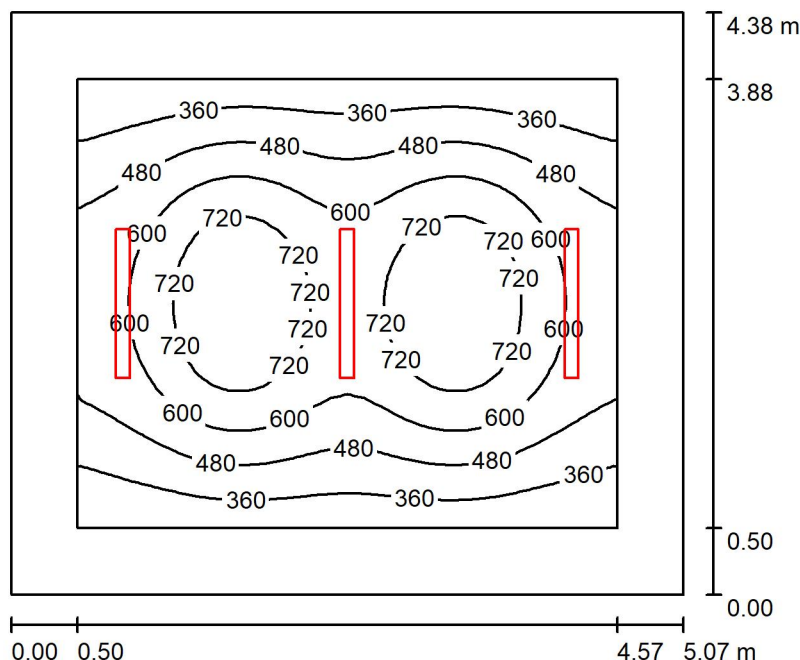
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.222, Ceiling / Working Plane: 0.120.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	SIGNIFY W20L120 OC 0.6A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	3840	3840	25.2
Total:			11519	11520	75.6

Specific connected load:  $4.35 \text{ W/m}^2 = 0.76 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $17.37 \text{ m}^2$ )

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Height of Room: 2.850 m, Mounting Height: 2.850 m, Light loss factor: 0.80

Values in Lux, Scale 1:57

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u0$
Workplane	/	543	242	840	0.445
Floor	20	376	178	565	0.474
Ceiling	70	65	45	77	0.697
Walls (4)	50	129	50	428	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m**UGR**Left Wall 17  
Lower Wall 17  
(CIE, SHR = 0.25.)**Lengthways-****Across****to luminaire axis**

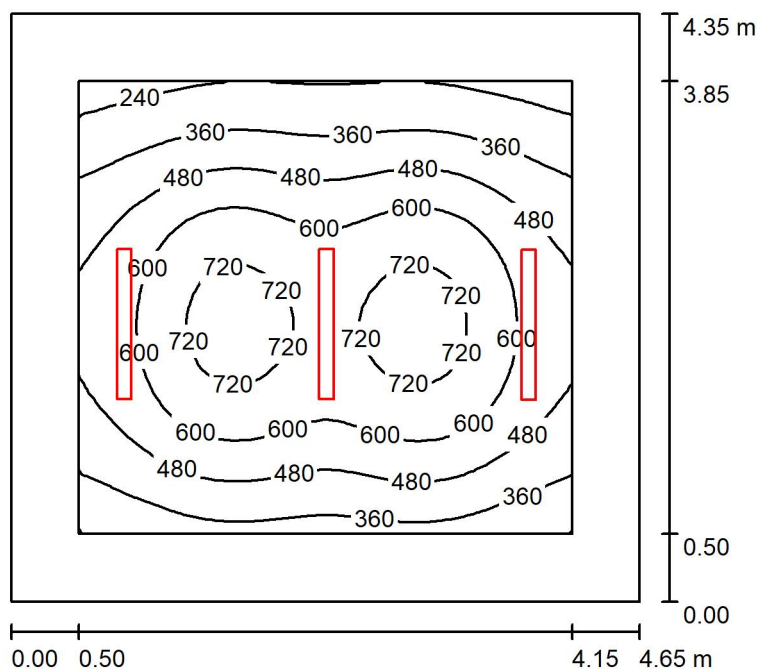
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.211, Ceiling / Working Plane: 0.120.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	SIGNIFY W20L120 OC 0.7A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	4416	4416	29.2
Total:			13248	13248	87.6

Specific connected load:  $3.95 \text{ W/m}^2 = 0.73 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $22.19 \text{ m}^2$ )

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Height of Room: 2.850 m, Mounting Height: 2.850 m, Light loss factor: 0.80

Values in Lux, Scale 1:56

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	517	193	767	0.373
Floor	20	352	152	533	0.431
Ceiling	70	61	40	72	0.662
Walls (4)	50	121	45	395	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.208, Ceiling / Working Plane: 0.117.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	SIGNIFY W20L120 OC 0.6A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	3840	3840	25.2
Total:			11519	11520	75.6

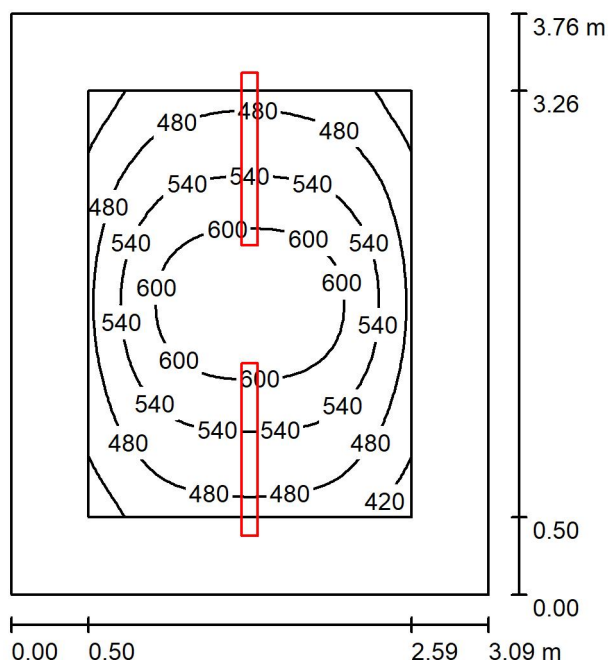
Specific connected load:  $3.73 \text{ W/m}^2 = 0.72 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $20.25 \text{ m}^2$ )

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## NADSTROPJE\_PISARNA N4 / Summary



Height of Room: 2.850 m, Mounting Height: 2.850 m, Light loss factor: 0.80

Values in Lux, Scale 1:49

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u0$
Workplane	/	527	381	650	0.722
Floor	20	333	232	403	0.698
Ceiling	70	64	44	78	0.689
Walls (4)	50	143	46	455	/

### Workplane:

Height: 0.850 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m

### UGR

Left Wall 16  
Lower Wall 16  
(CIE, SHR = 0.25.)

### Lengthways-

16  
16

### Across

18  
18

### to luminaire axis

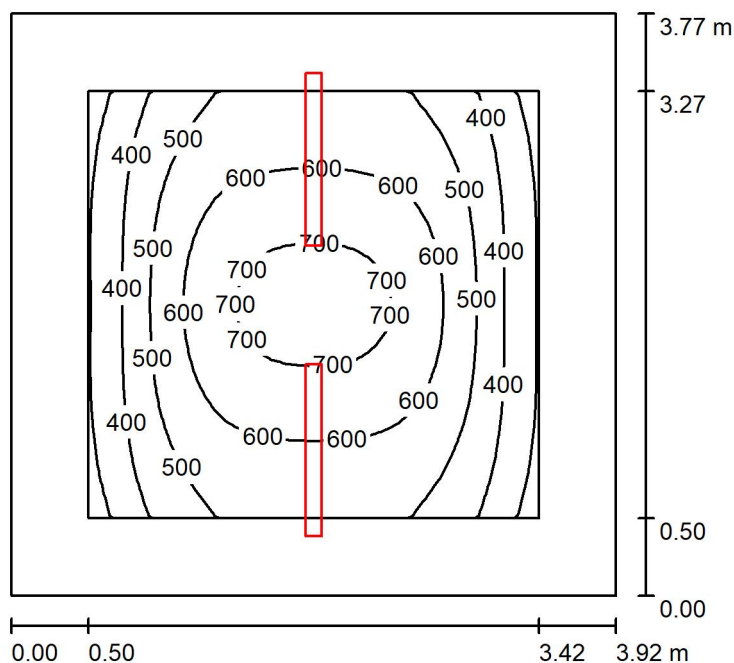
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.241, Ceiling / Working Plane: 0.121.

### Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	2	SIGNIFY W20L120 OC 0.6A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	3840	3840	25.2
Total:			7679	7680	50.4

Specific connected load:  $4.34 \text{ W/m}^2 = 0.82 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $11.62 \text{ m}^2$ )

SIGNIFY INTERNATIONAL B.V. Podružnica Zagreb

Ulica Josipa Marohnića 1  
10000 ZagrebOperator Matjaž DREMEL  
Telephone +385 91 200 2202  
Fax  
e-Mail matjaz.dremel@signify.com**NADSTROPJE\_PISARNA N3 / Summary**

Height of Room: 2.850 m, Mounting Height: 2.850 m, Light loss factor: 0.80

Values in Lux, Scale 1:49

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	532	258	739	0.485
Floor	20	340	186	445	0.548
Ceiling	70	61	41	111	0.674
Walls (4)	50	126	46	505	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m**UGR**Left Wall  
Lower Wall  
(CIE, SHR = 0.25.)Lengthways-  
Across  
to luminaire axis

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.214, Ceiling / Working Plane: 0.115.

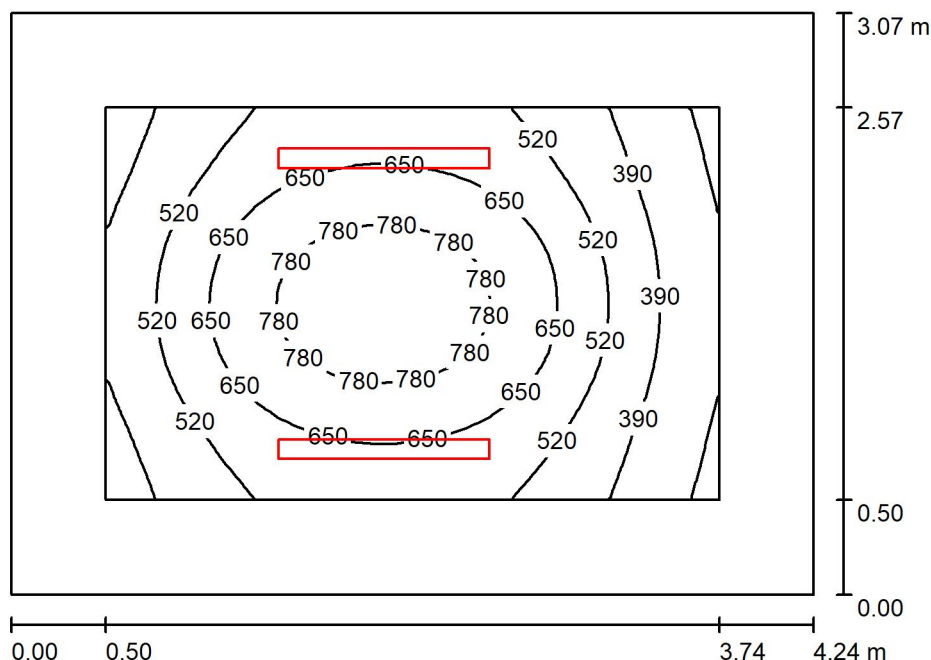
**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	2	SIGNIFY W20L120 OC 0.7A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	4416	4416	29.2
Total:			8832	8832	58.4

Specific connected load:  $3.96 \text{ W/m}^2 = 0.74 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $14.76 \text{ m}^2$ )



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Ulica Josipa Marohnića 1  
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Height of Room: 2.850 m, Mounting Height: 2.850 m, Light loss factor: 0.80

Values in Lux, Scale 1:40

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u0$
Workplane	/	570	231	860	0.405
Floor	20	363	182	482	0.502
Ceiling	70	68	44	291	0.649
Walls (4)	50	145	47	500	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m

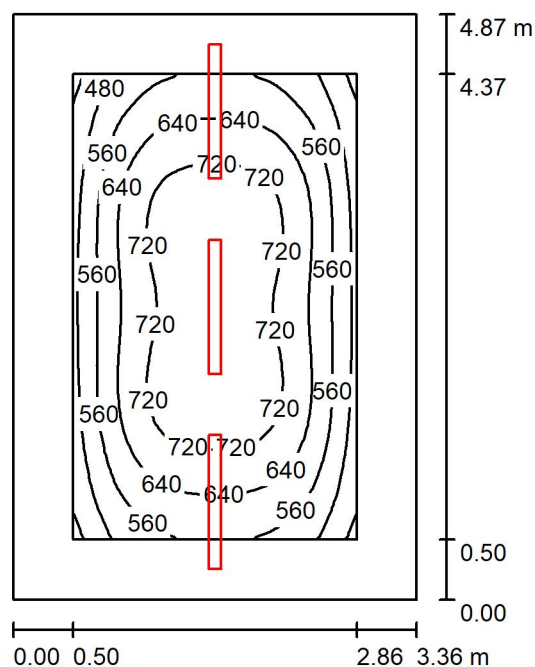
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.237, Ceiling / Working Plane: 0.120.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	2	SIGNIFY W20L120 OC 0.7A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	4416	4416	29.2
Total:			8832	8832	58.4

Specific connected load:  $4.48 \text{ W/m}^2 = 0.79 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $13.03 \text{ m}^2$ )

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Ulica Josipa Marohnića 1  
10000 ZagrebOperator Matjaž DREMEL  
Telephone +385 91 200 2202  
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e-Mail matjaz.dremel@signify.com**NADSTROPJE\_PISARNA N1 / Summary**

Height of Room: 2.750 m, Mounting Height: 2.750 m, Light loss factor: 0.80

Values in Lux, Scale 1:63

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	632	381	777	0.602
Floor	20	410	239	527	0.583
Ceiling	70	74	51	102	0.689
Walls (4)	50	152	52	661	/

**Workplane:**Height: 0.850 m  
Grid: 32 x 32 Points  
Boundary Zone: 0.500 m**UGR**Left Wall  
Lower Wall  
(CIE, SHR = 0.25.)Lengthways-  
Across  
to luminaire axis

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.211, Ceiling / Working Plane: 0.116.

**Luminaire Parts List**

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	3	SIGNIFY W20L120 OC 0.6A SM136V 31S_37S 1xSM136V 31S_37S_43S840 PSU W (1.000)	3840	3840	25.2
Total:			11519	11520	75.6

Specific connected load:  $4.61 \text{ W/m}^2 = 0.73 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $16.39 \text{ m}^2$ )