

طرح روشنایی اتاق

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Order No.:  
Company:  
Customer No.:

Date: 26.04.2022  
Operator: hesam project



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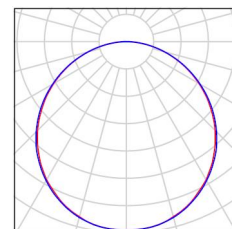
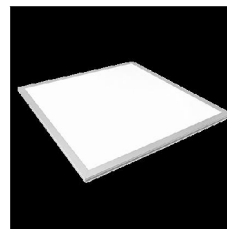
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## طرح روشنایی اتاق / Luminaire parts list

4 Pieces GOLNOOR 36W Khorshid  
Article No.: 36W  
Luminous flux (Luminaire): 4021 lm  
Luminous flux (Lamps): 4021 lm  
Luminaire Wattage: 36.0 W  
Luminaire classification according to CIE: 100  
CIE flux code: 46 78 95 100 100  
Fitting: 1 x Khorshid\_36W (Correction Factor 1.000).

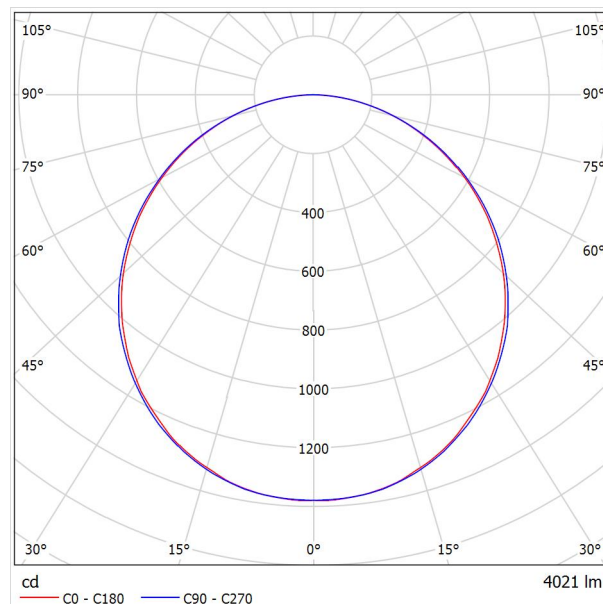
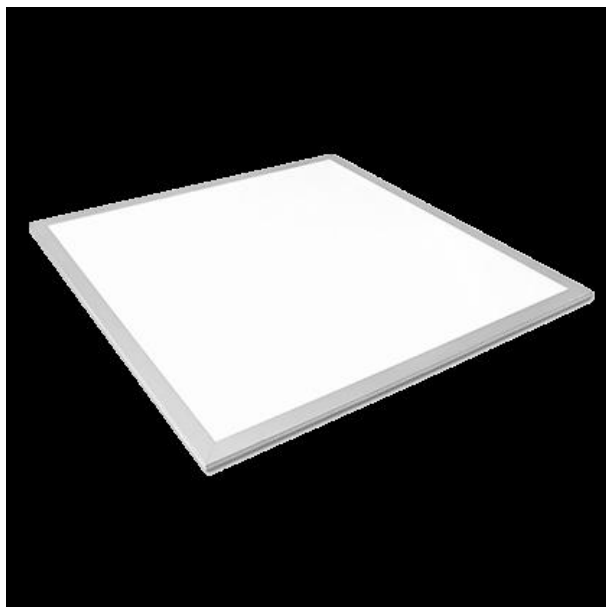




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## GOLNOOR 36W Khorshid / Luminaire Data Sheet

Luminous emittance 1:



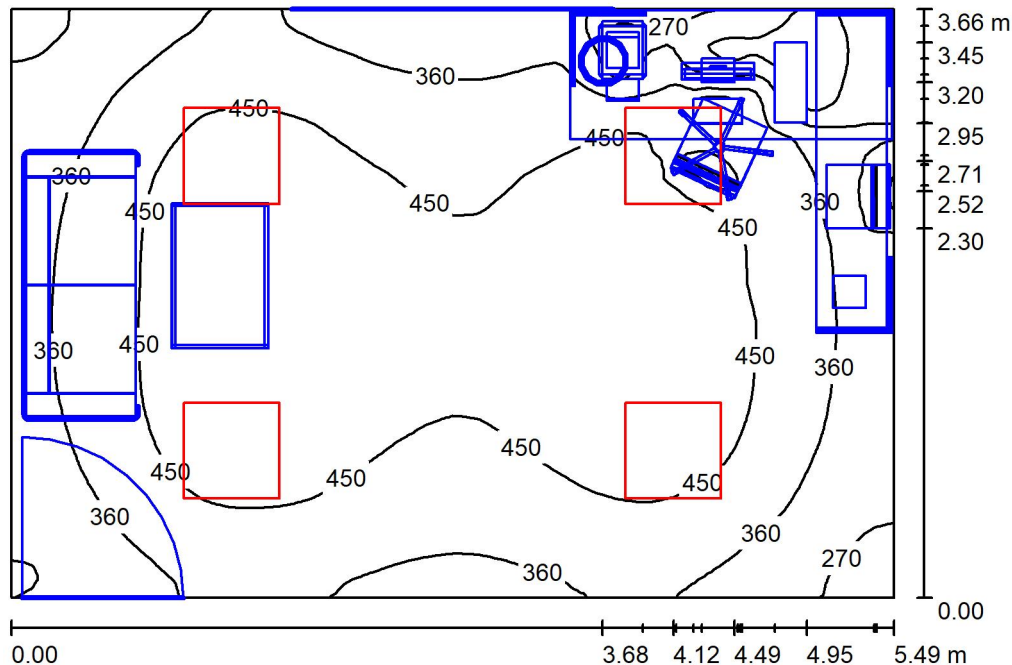
Luminaire classification according to CIE: 100  
CIE flux code: 46 78 95 100 100

KHORSHID panel is designed for commercial and office lighting, capable of being surface or recessed mounted or being hanged.

Due to missing symmetry properties, no UGR table can be displayed for this luminaire.

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## Room 1 / Summary



Height of Room: 2.743 m, Mounting Height: 2.753 m, Maintenance factor: 0.80

Values in Lux, Scale 1:47

Surface	$\rho$ [%]	$E_{av}$ [lx]	$E_{min}$ [lx]	$E_{max}$ [lx]	$u_0$
Workplane	/	406	76	519	0.187
Floor	26	267	17	392	0.065
Ceiling	80	92	63	116	0.683
Walls (4)	40	226	13	511	/

### Workplane:

Height: 0.760 m  
Grid: 128 x 128 Points  
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.624, Ceiling / Working Plane: 0.226.

### Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	$\Phi$ (Luminaire) [lm]	$\Phi$ (Lamps) [lm]	P [W]
1	4	GOLNOOR 36W Khorshid (1.000)	4021	4021	36.0
Total:			16084	16084	144.0

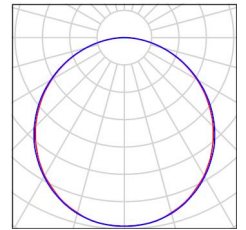
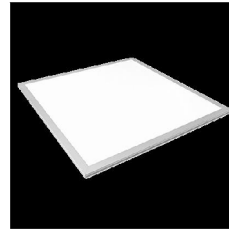
Specific connected load:  $7.18 \text{ W/m}^2 = 1.77 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $20.07 \text{ m}^2$ )



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## Room 1 / Luminaire parts list

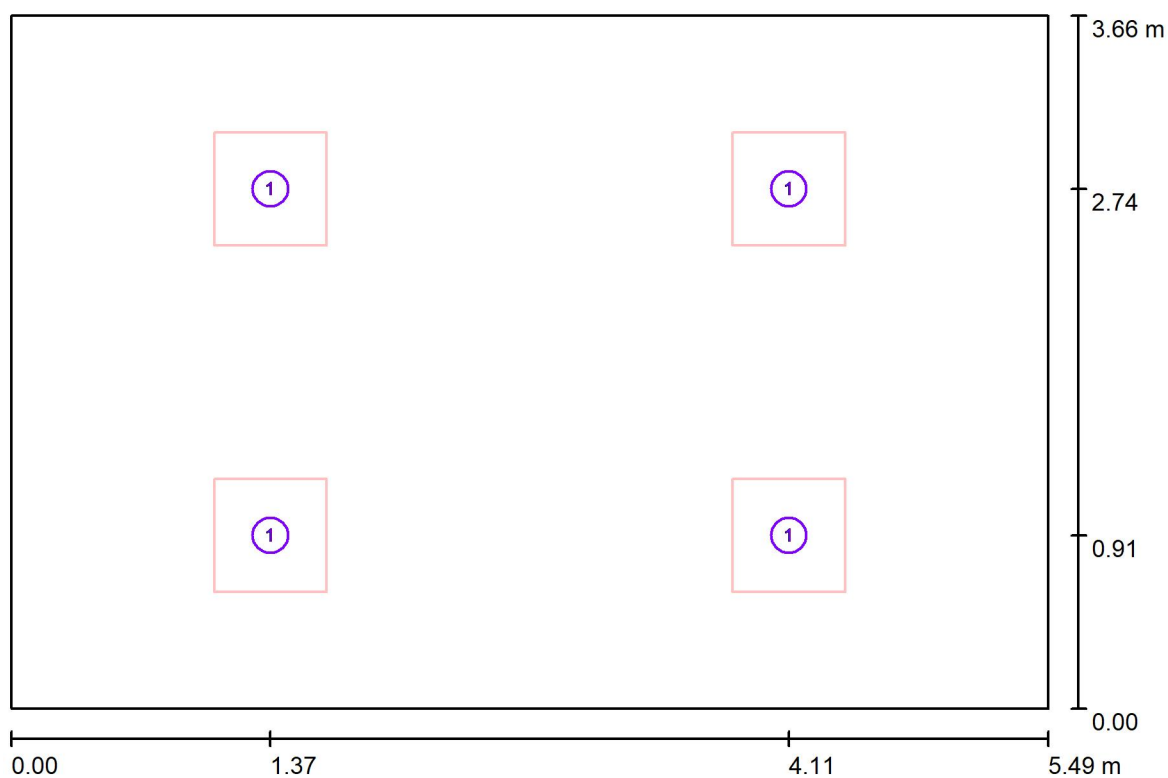
4 Pieces GOLNOOR 36W Khorshid  
Article No.: 36W  
Luminous flux (Luminaire): 4021 lm  
Luminous flux (Lamps): 4021 lm  
Luminaire Wattage: 36.0 W  
Luminaire classification according to CIE: 100  
CIE flux code: 46 78 95 100 100  
Fitting: 1 x Khorshid\_36W (Correction Factor 1.000).





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## Room 1 / Luminaires (layout plan)



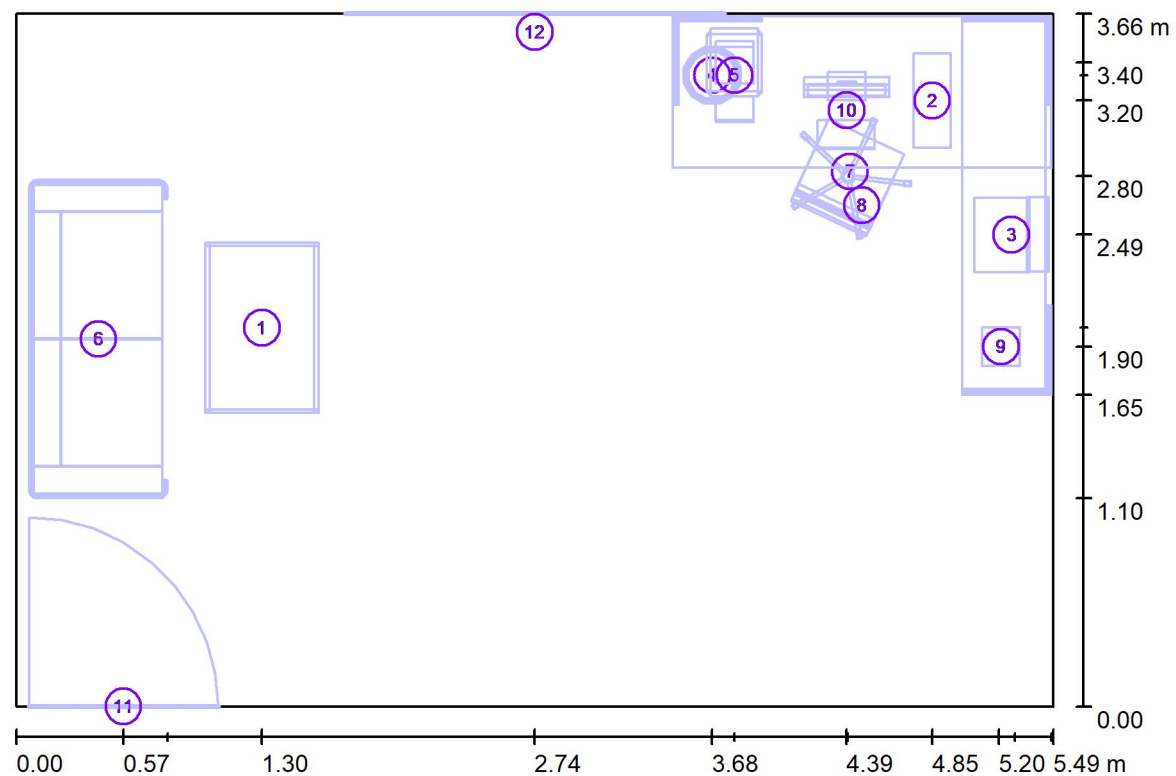
Scale 1 : 40

### Luminaire Parts List

No.	Pieces	Designation
1	4	GOLNOOR 36W Khorshid

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## Room 1 / Objects (layout plan)



Scale 1 : 40

### Object parts list

No.	Pieces	Designation
1	1	60x120 couch
2	1	Computer t
3	1	Laptop
4	1	Paper basket





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## Room 1 / Objects (layout plan)

### Object parts list

No.	Pieces	Designation
5	1	Printer
6	1	Sofa LC3 Hide
7	1	Swivel chair1
8	1	Table P1+M1dx
9	1	Telephone t
10	1	TFT screen with keypad
11	1	Door
12	1	Window



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## Room 1 / Photometric Results

Total Luminous Flux: 16084 lm  
 Total Load: 144.0 W  
 Maintenance factor: 0.80  
 Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	320	86	406	/	/
Floor	201	66	267	26	22
Ceiling	0.07	92	92	80	23
Wall 1	171	80	251	38	30
Wall 2	127	74	201	38	24
Wall 3	150	78	228	38	28
Wall 4	135	74	210	50	33

Uniformity on the working plane

u0: 0.187 (1:5)

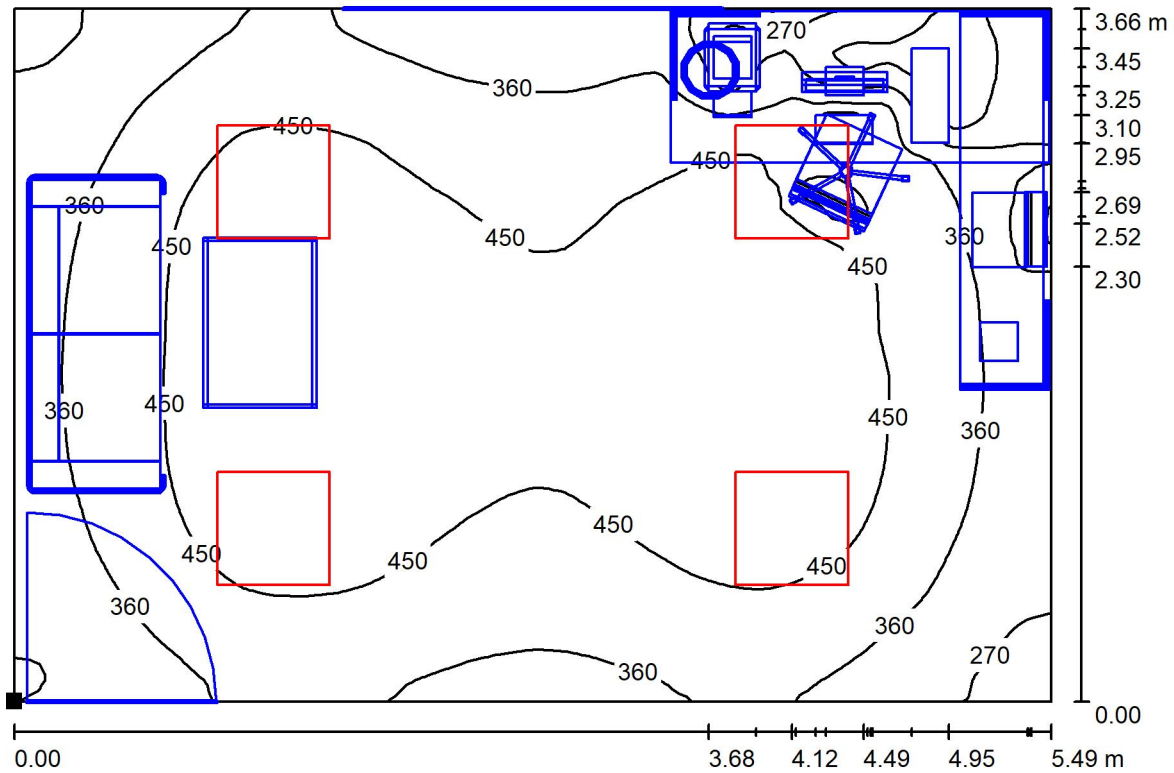
$E_{\min} / E_{\max}$ : 0.146 (1:7)

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.624, Ceiling / Working Plane: 0.226.

Specific connected load:  $7.18 \text{ W/m}^2 = 1.77 \text{ W/m}^2/100 \text{ lx}$  (Ground area:  $20.07 \text{ m}^2$ )

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## Room 1 / Workplane / Isolines (E)



Values in Lux, Scale 1 : 40

Position of surface in room:  
Marked point:  
(0.000 m, 0.000 m, 0.760 m)



Grid: 128 x 128 Points

$E_{av}$  [lx]  
406

$E_{min}$  [lx]  
76

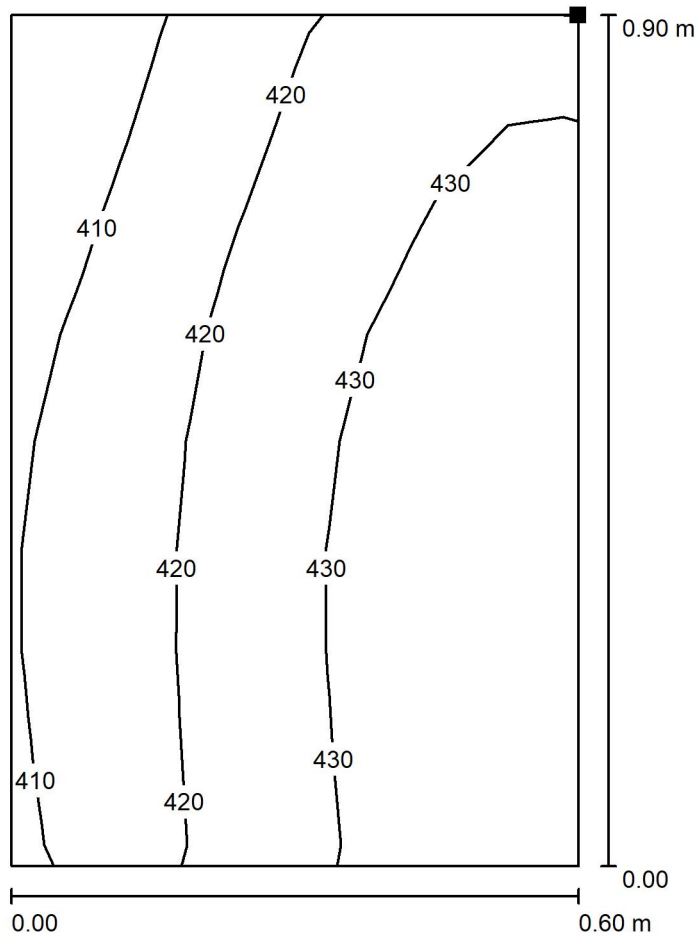
$E_{max}$  [lx]  
519

$u_0$   
0.187

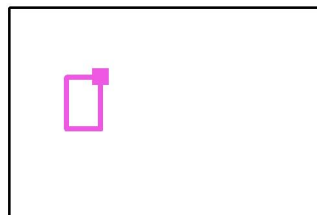
$E_{min} / E_{max}$   
0.146

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## Room 1 / 60x120 couch / Surface 29 / Isolines (E)



Position of surface in room:  
Marked point:  
(1.600 m, 2.450 m, 0.318 m)



Values in Lux, Scale 1 : 8

Grid: 8 x 8 Points

$E_{av}$  [lx]  
424

$E_{min}$  [lx]  
402

$E_{max}$  [lx]  
439

$u_0$   
0.947

$E_{min} / E_{max}$   
0.914