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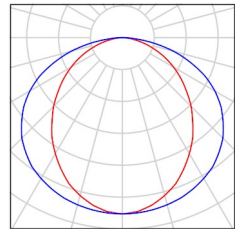
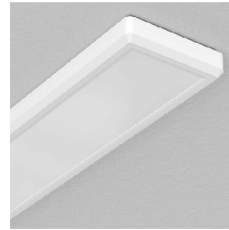
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Project 1 / Luminaire parts list

12 Pieces PETRIDIS 230893
PRISMA_PSPO_272_LED_60W_NEUTRAL_L1557mm
Article No.: 230893
Luminous flux (Luminaire): 67136 lm
Luminous flux (Lamps): 105880 lm
Luminaire Wattage: 60.0 W
Luminaire classification according to CIE: 100
CIE flux code: 46 78 96 100 63
Fitting: 1 x LED (Correction Factor 1.000).

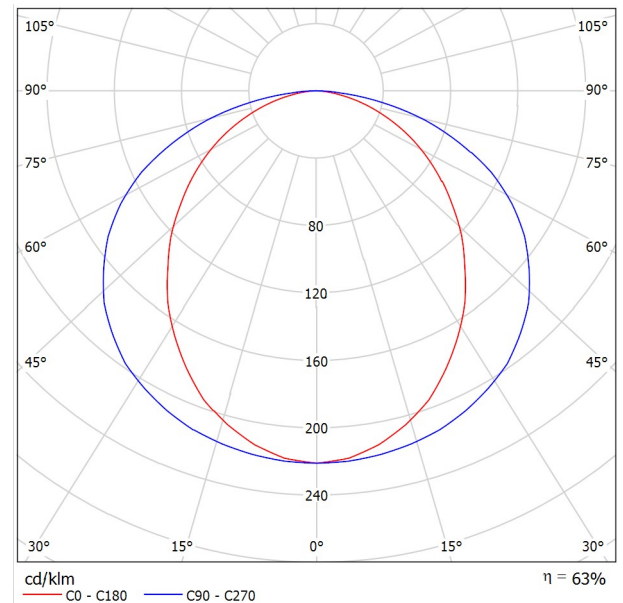




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PETRIDIS 230893 PRISMA_PSPO_272_LED_60W_NEUTRAL_L1557mm / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 100
CIE flux code: 46 78 96 100 63

Technical Features

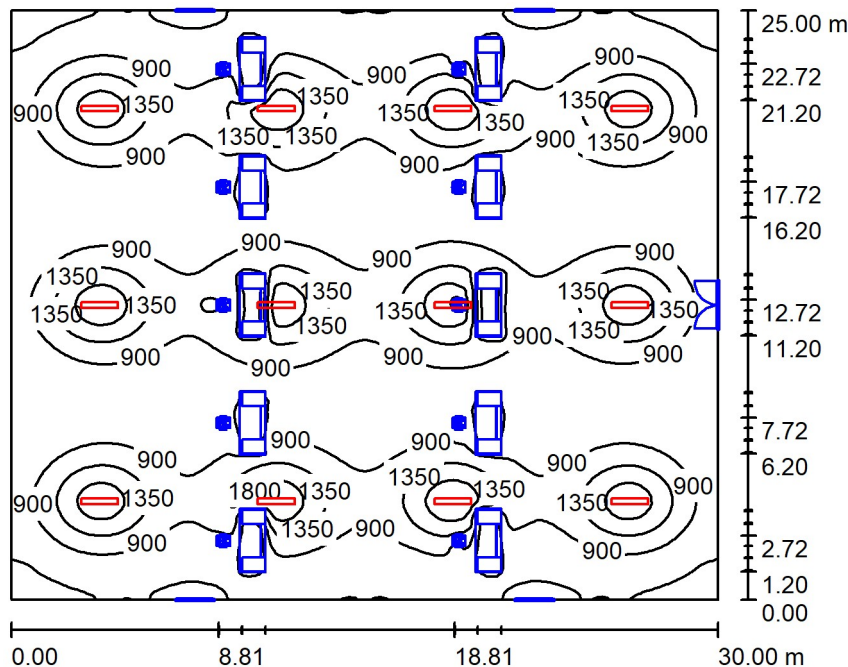
- Steel body with polygonal form, electrostatically painted in white colour.
- High efficient opal PMMA for PSPO Led, microprismatic and aluminium louvre with high efficient satin PMMA cover for louvre version.
- Last generation high efficient LED CHIP.
- Pure light without IR/UV radiation.
- UGR<19 at specific editions:
- Operation life: 50,000 hours with efficiency > 80% of the initial luminous flux (L80B10).
- Glare Evaluation: X=4H/ Y=8H S=0,25H, reflection factors 70/50/20.
- For DSE work stations: $\gamma \geq 65^\circ$ <3000cd/m².
- Connection for operation on 230V/50-60Hz.
- Upon request:
- Body and accessories in various colours (RAL)
- Connection for emergency lighting system, for one or three hours.

Luminous emittance 1:

Glare Evaluation According to UGR												
ρ Ceiling	70	70	50	30	30	70	70	50	50	30	30	
ρ Walls	50	30	50	30	30	50	30	50	30	30	30	
ρ 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	27.2	28.6	27.5	28.8	29.0	29.8	31.2	30.1	31.4	31.6	
	3H	28.5	29.7	28.9	30.0	30.3	31.8	33.0	32.2	33.3	33.6	
	4H	29.0	30.2	29.3	30.4	30.7	32.7	33.8	33.0	34.1	34.4	
	6H	29.3	30.4	29.7	30.7	31.0	33.3	34.3	33.6	34.6	35.0	
	8H	29.4	30.4	29.8	30.7	31.0	33.5	34.5	33.8	34.8	35.1	
	12H	29.4	30.4	29.8	30.7	31.1	33.6	34.5	33.9	34.9	35.2	
4H	2H	28.2	29.4	28.6	29.7	30.0	30.2	31.4	30.6	31.7	32.0	
	3H	29.7	30.6	30.0	31.0	31.3	32.4	33.4	32.8	33.7	34.1	
	4H	30.2	31.1	30.6	31.5	31.8	33.4	34.3	33.8	34.6	35.0	
	6H	30.6	31.4	31.0	31.8	32.2	34.2	34.9	34.6	35.3	35.7	
	8H	30.7	31.4	31.2	31.8	32.2	34.4	35.1	34.9	35.5	35.9	
	12H	30.8	31.4	31.2	31.8	32.3	34.6	35.2	35.0	35.6	36.1	
8H	4H	30.7	31.4	31.2	31.8	32.2	33.6	34.3	34.0	34.6	35.1	
	6H	31.2	31.8	31.7	32.2	32.7	34.4	35.0	34.9	35.4	35.9	
	8H	31.4	31.9	31.9	32.3	32.8	34.8	35.3	35.3	35.7	36.2	
	12H	31.5	31.9	32.0	32.4	32.9	35.0	35.4	35.5	35.9	36.4	
	4H	30.8	31.4	31.3	31.9	32.3	33.5	34.2	34.0	34.6	35.0	
	6H	31.4	31.8	31.8	32.3	32.8	34.5	35.0	34.9	35.4	35.9	
12H	8H	31.5	32.0	32.0	32.4	32.9	34.8	35.2	35.3	35.7	36.2	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.1 / -0.2					+0.1 / -0.1					
S = 1.5H		+0.3 / -0.5					+0.1 / -0.2					
S = 2.0H		+0.5 / -0.9					+0.4 / -0.3					
Standard table		BK05					BK07					
Correction		12.3					16.4					
Summand												
Corrected Glare Indices referring to 105880lm Total Luminous Flux												

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Room 1 / Summary



Height of Room: 4.000 m, Mounting Height: 4.000 m, Light loss factor: 0.70

Values in Lux, Scale 1:321

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	911	97	2177	0.106
Floor	52	841	91	1489	0.108
Ceiling	70	398	215	477	0.540
Walls (4)	50	513	230	915	/

Workplane:

Height: 0.900 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.541, Ceiling / Working Plane: 0.437.

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
		PETRIDIS 230893			
1	12	PRISMA_PSPO_272_LED_60W_NEUTRAL_L1557mm (1.000)	67136	105880	60.0
Total:			805628	Total: 1270560	720.0

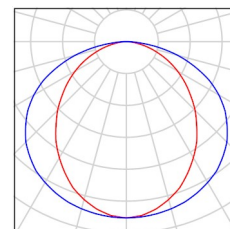
Specific connected load: $0.96 \text{ W/m}^2 = 0.11 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 750.00 m^2)



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Room 1 / Luminaire parts list

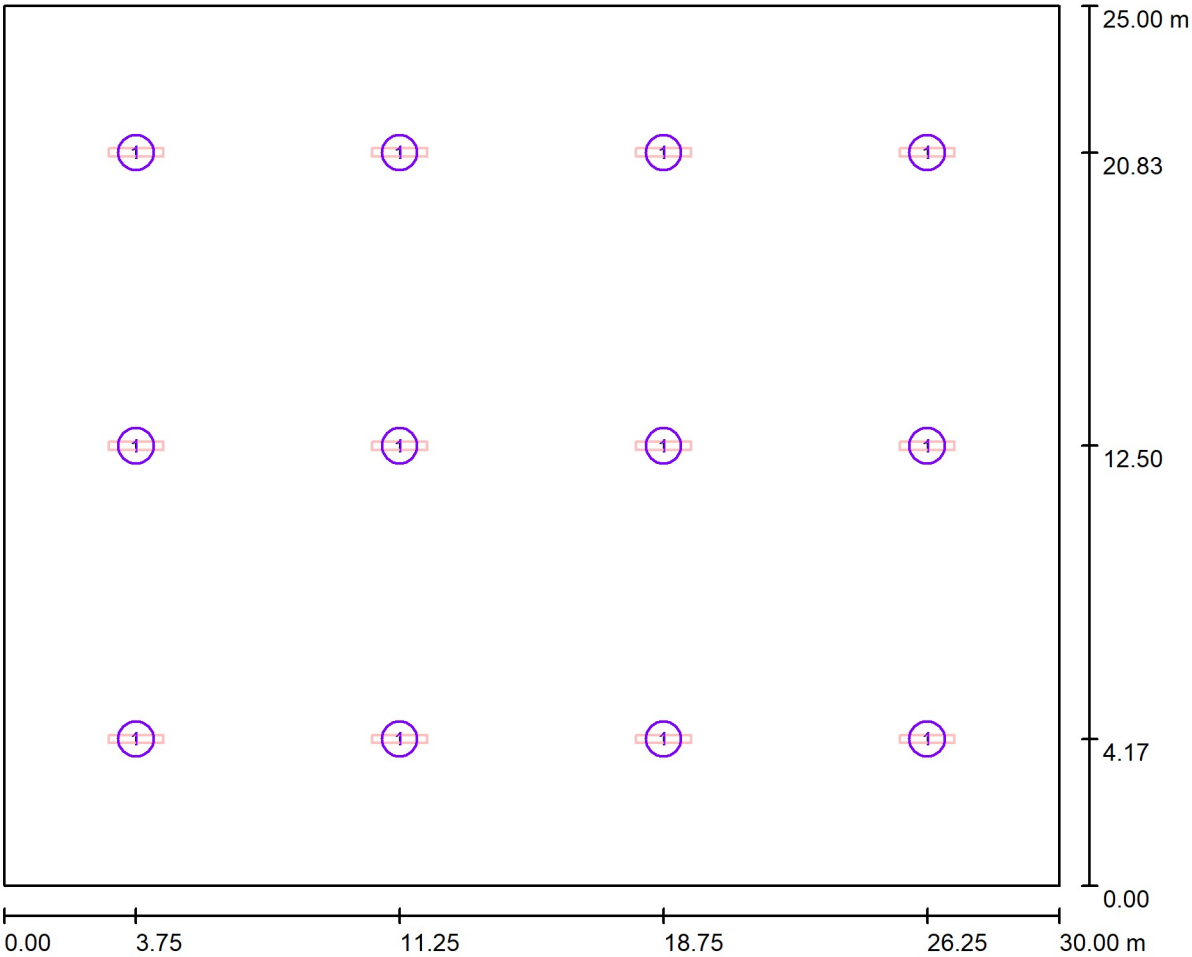
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PRISMA_PSPO_272_LED_60W_NEUTRAL_L1557mm
Article No.: 230893
Luminous flux (Luminaire): 67136 lm
Luminous flux (Lamps): 105880 lm
Luminaire Wattage: 60.0 W
Luminaire classification according to CIE: 100
CIE flux code: 46 78 96 100 63
Fitting: 1 x LED (Correction Factor 1.000).





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Room 1 / Luminaires (layout plan)



Scale 1 : 215

Luminaire Parts List

No.	Pieces	Designation
1	12	PETRIDIS 230893 PRISMA_PSPO_272_LED_60W_NEUTRAL_L1557mm

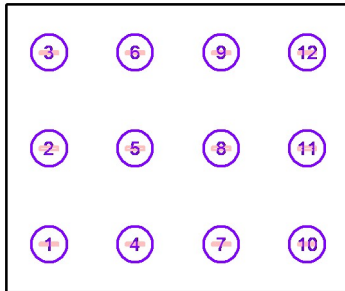


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Room 1 / Luminaires (coordinates list)

PETRIDIS 230893 PRISMA_PSPO_272_LED_60W_NEUTRAL_L1557mm

67136 lm, 60.0 W, 1 x 1 x LED (Correction Factor 1.000).

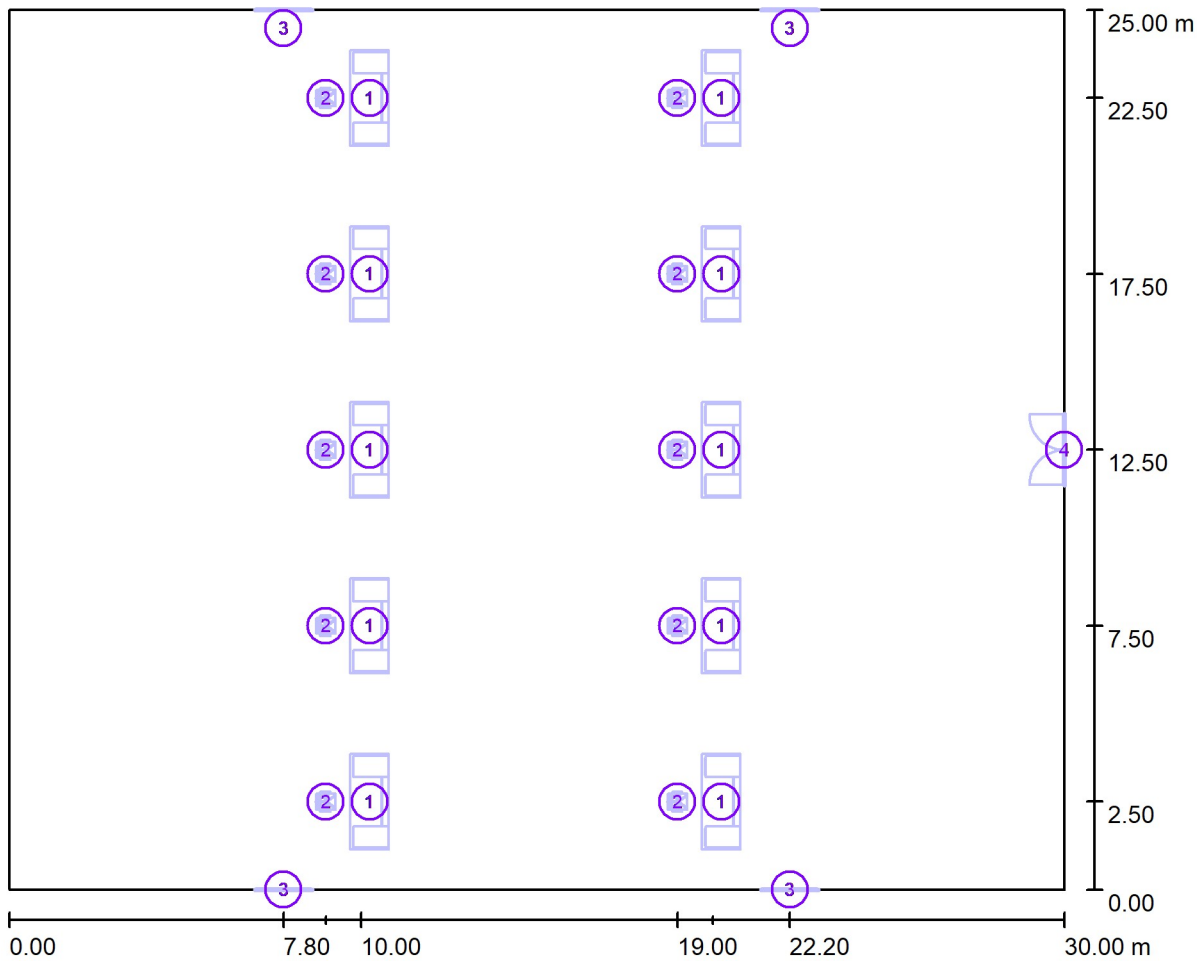


No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	3.750	4.167	4.000	0.0	0.0	90.0
2	3.750	12.500	4.000	0.0	0.0	90.0
3	3.750	20.833	4.000	0.0	0.0	90.0
4	11.250	4.167	4.000	0.0	0.0	90.0
5	11.250	12.500	4.000	0.0	0.0	90.0
6	11.250	20.833	4.000	0.0	0.0	90.0
7	18.750	4.167	4.000	0.0	0.0	90.0
8	18.750	12.500	4.000	0.0	0.0	90.0
9	18.750	20.833	4.000	0.0	0.0	90.0
10	26.250	4.167	4.000	0.0	0.0	90.0
11	26.250	12.500	4.000	0.0	0.0	90.0
12	26.250	20.833	4.000	0.0	0.0	90.0



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Room 1 / Objects (layout plan)



Scale 1 : 215

Object parts list

No.	Pieces	Designation
1	10	Model5 270x110
2	10	Office chair2
3	4	Window
4	1	Door



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Room 1 / Photometric Results

Total Luminous Flux: 805628 lm
Total Load: 720.0 W
Light loss factor: 0.70
Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	645	266	911	/	/
Floor	579	262	841	52	139
Ceiling	0.16	397	398	70	89
Wall 1	167	305	471	50	75
Wall 2	242	313	555	50	88
Wall 3	167	304	470	50	75
Wall 4	252	320	572	50	91

Uniformity on the working plane

u0: 0.106 (1:9)

E_{min} / E_{max}: 0.044 (1:23)

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.541, Ceiling / Working Plane: 0.437.

Specific connected load: $0.96 \text{ W/m}^2 = 0.11 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 750.00 m²)



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Room 1 / 3D Rendering

