



Operator
Telephone
Fax
e-Mail

Table of contents

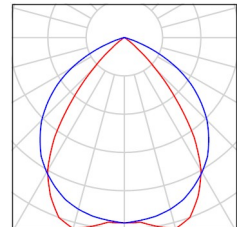
Project 1	
Table of contents	1
Luminaire parts list	2
PETRIDIS 3136753 LP3M_324_LED_140W_NEUTRAL_L1196mm	
Luminaire Data Sheet	3
Room 1	
Summary	4
Luminaire parts list	5
Luminaires (layout plan)	6
Luminaires (coordinates list)	7
Objects (layout plan)	9
Photometric Results	10
3D Rendering	11



Operator
Telephone
Fax
e-Mail

Project 1 / Luminaire parts list

48 Pieces PETRIDIS 3136753
LP3M_324_LED_140W_NEUTRAL_L1196mm
Article No.: 3136753
Luminous flux (Luminaire): 17391 lm
Luminous flux (Lamps): 23440 lm
Luminaire Wattage: 140.0 W
Luminaire classification according to CIE: 100
CIE flux code: 70 96 100 100 74
Fitting: 1 x LED (Correction Factor 1.000).

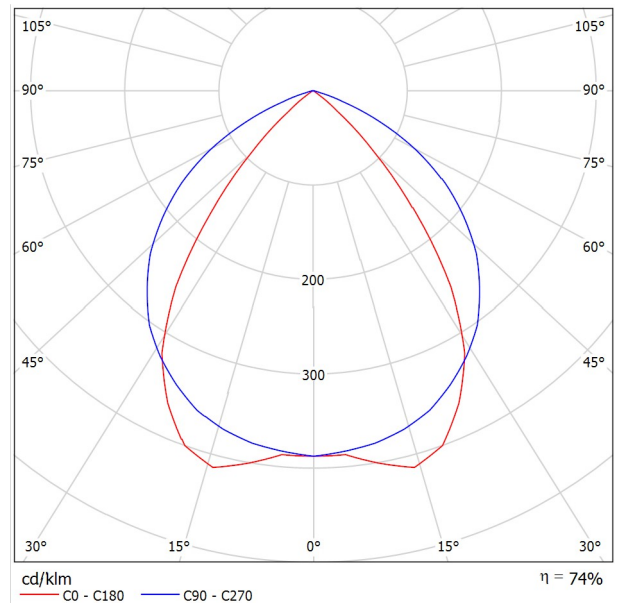




Operator
Telephone
Fax
e-Mail

PETRIDIS 3136753 LP3M_324_LED_140W_NEUTRAL_L1196mm / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 100
CIE flux code: 70 96 100 100 74

Recessed luminaires for panels in mineral fibre ceilings 600x600, 600x1200 with exposed structure.

Technical Features

- Steel body, electrostatically painted in white color.
 - 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.
 - Operation life: 50,000 hours with efficiency > 80% of the initial luminous flux (L80B10).
 - UGR<19 at specific editions:
- 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:

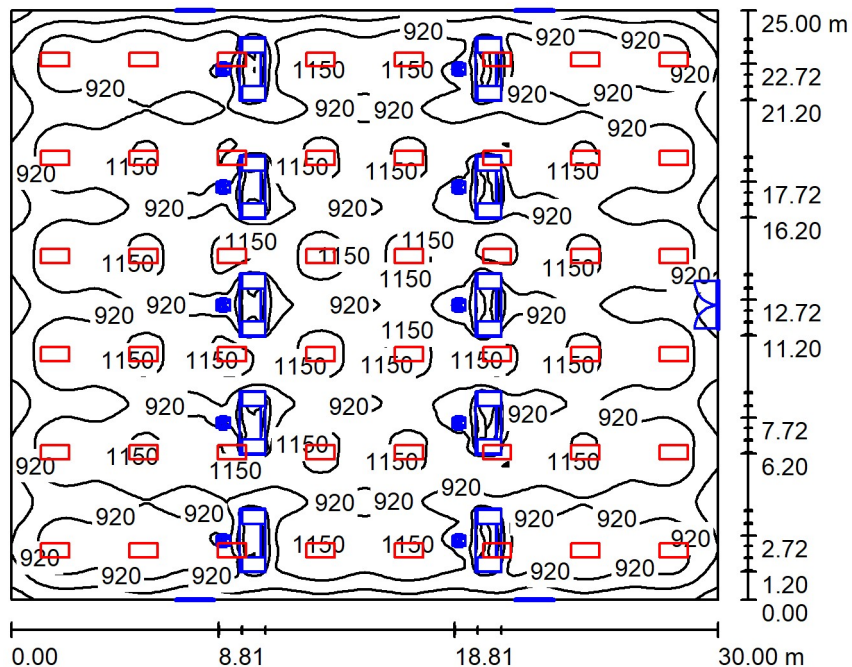
- Connection for emergency lighting system, for one or three hours

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	14.8	15.8	15.1	16.0	16.2	20.8	21.8	21.1	22.0	22.2	
	3H	14.6	15.5	14.9	15.8	16.0	21.2	22.1	21.5	22.3	22.6	
	4H	14.6	15.4	14.9	15.7	15.9	21.2	22.0	21.5	22.2	22.5	
	6H	14.5	15.3	14.8	15.6	15.8	21.1	21.8	21.4	22.1	22.4	
	8H	14.5	15.2	14.8	15.5	15.8	21.0	21.8	21.4	22.1	22.4	
	12H	14.4	15.1	14.8	15.4	15.8	21.0	21.7	21.4	22.0	22.3	
4H	2H	15.1	16.0	15.5	16.2	16.5	20.6	21.4	20.9	21.7	22.0	
	3H	15.0	15.7	15.3	16.0	16.3	21.0	21.7	21.4	22.0	22.3	
	4H	14.9	15.5	15.3	15.9	16.2	21.0	21.6	21.4	21.9	22.3	
	6H	14.9	15.4	15.3	15.7	16.1	20.9	21.5	21.4	21.8	22.2	
	8H	14.8	15.3	15.2	15.7	16.1	20.9	21.4	21.3	21.8	22.2	
	12H	14.8	15.2	15.2	15.6	16.0	20.9	21.3	21.3	21.7	22.1	
8H	4H	14.8	15.3	15.3	15.7	16.1	20.9	21.4	21.3	21.8	22.2	
	6H	14.8	15.1	15.2	15.6	16.0	20.8	21.2	21.3	21.6	22.1	
	8H	14.7	15.1	15.2	15.5	16.0	20.8	21.1	21.3	21.6	22.0	
	12H	14.7	15.0	15.2	15.5	16.0	20.7	21.0	21.2	21.5	22.0	
	4H	14.8	15.2	15.2	15.6	16.1	20.9	21.3	21.3	21.7	22.1	
	6H	14.7	15.1	15.2	15.5	16.0	20.8	21.1	21.3	21.6	22.0	
12H	8H	14.7	15.0	15.2	15.4	15.9	20.7	21.0	21.2	21.5	22.0	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+2.6 / -8.7					+0.5 / -0.7					
S = 1.5H		+4.0 / -14.2					+1.1 / -2.2					
S = 2.0H		+5.4 / -15.7					+2.8 / -6.0					
Standard table		BK01					BK00					
Correction												
Summand		-4.0					1.5					
Corrected Glare Indices referring to 23440lm Total Luminous Flux												

Operator
Telephone
Fax
e-Mail

Room 1 / Summary



Height of Room: 4.000 m, Mounting Height: 3.905 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	/	948	86	1218	0.090
Floor	52	890	86	1105	0.096
Ceiling	70	387	185	484	0.478
Walls (4)	50	445	219	805	/

Workplane:

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

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.441, Ceiling / Working Plane: 0.409.

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	48	PETRIDIS 3136753 LP3M_324_LED_140W_NEUTRAL_L1196mm (1.000)	17391	23440	140.0
Total:			834776	1125120	6720.0

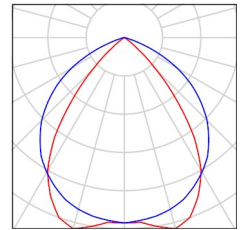
Specific connected load: $8.96 \text{ W/m}^2 = 0.95 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 750.00 m^2)



Operator
Telephone
Fax
e-Mail

Room 1 / Luminaire parts list

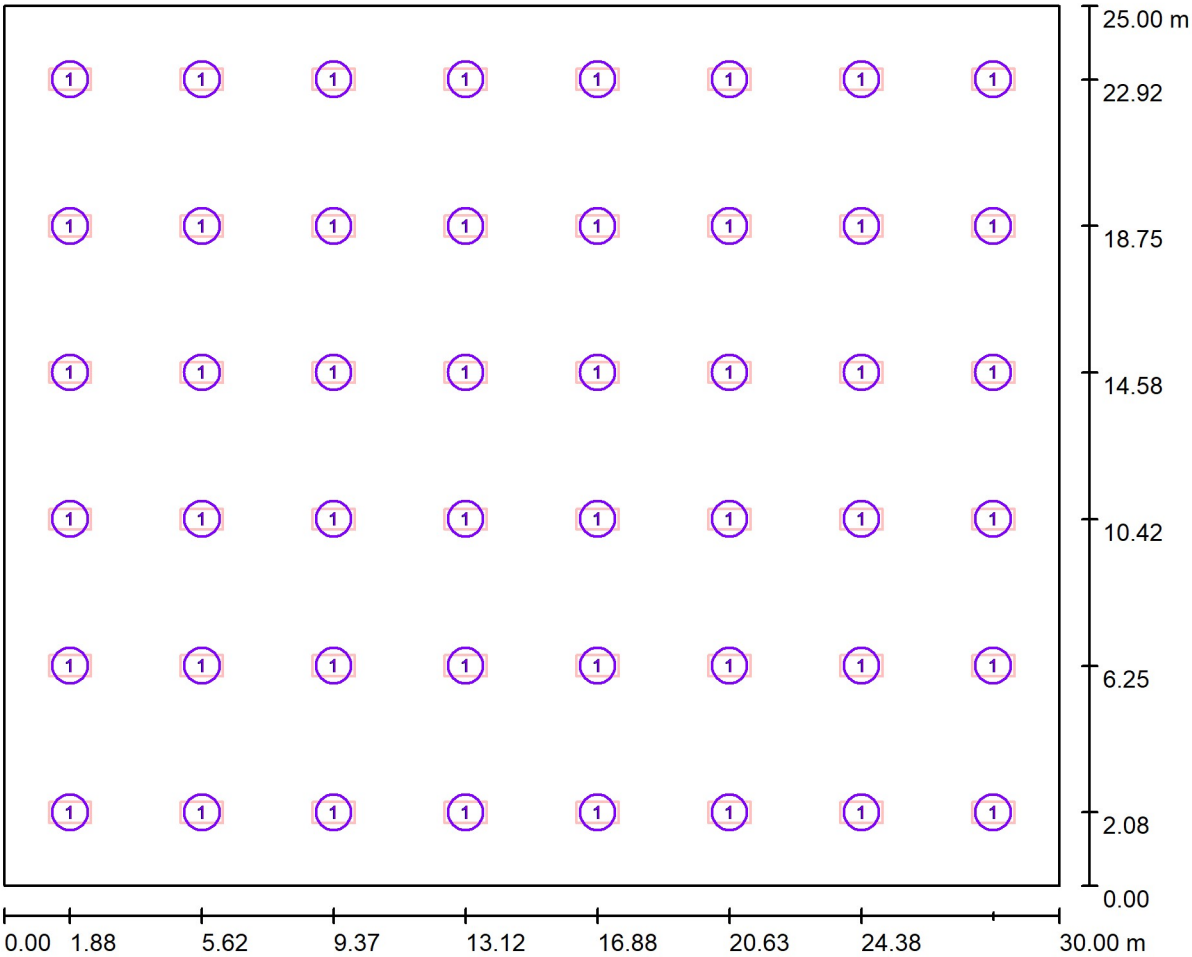
48 Pieces PETRIDIS 3136753
LP3M_324_LED_140W_NEUTRAL_L1196mm
Article No.: 3136753
Luminous flux (Luminaire): 17391 lm
Luminous flux (Lamps): 23440 lm
Luminaire Wattage: 140.0 W
Luminaire classification according to CIE: 100
CIE flux code: 70 96 100 100 74
Fitting: 1 x LED (Correction Factor 1.000).





Operator
Telephone
Fax
e-Mail

Room 1 / Luminaires (layout plan)



Scale 1 : 215

Luminaire Parts List

No.	Pieces	Designation
1	48	PETRIDIS 3136753 LP3M_324_LED_140W_NEUTRAL_L1196mm

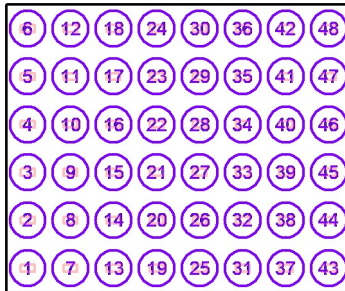


Operator
Telephone
Fax
e-Mail

Room 1 / Luminaires (coordinates list)

PETRIDIS 3136753 LP3M_324_LED_140W_NEUTRAL_L1196mm

17391 lm, 140.0 W, 1 x 1 x LED (Correction Factor 1.000).



No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	1.875	2.083	3.905	0.0	0.0	90.0
2	1.875	6.250	3.905	0.0	0.0	90.0
3	1.875	10.417	3.905	0.0	0.0	90.0
4	1.875	14.583	3.905	0.0	0.0	90.0
5	1.875	18.750	3.905	0.0	0.0	90.0
6	1.875	22.917	3.905	0.0	0.0	90.0
7	5.625	2.083	3.905	0.0	0.0	90.0
8	5.625	6.250	3.905	0.0	0.0	90.0
9	5.625	10.417	3.905	0.0	0.0	90.0
10	5.625	14.583	3.905	0.0	0.0	90.0
11	5.625	18.750	3.905	0.0	0.0	90.0
12	5.625	22.917	3.905	0.0	0.0	90.0
13	9.375	2.083	3.905	0.0	0.0	90.0
14	9.375	6.250	3.905	0.0	0.0	90.0
15	9.375	10.417	3.905	0.0	0.0	90.0
16	9.375	14.583	3.905	0.0	0.0	90.0
17	9.375	18.750	3.905	0.0	0.0	90.0
18	9.375	22.917	3.905	0.0	0.0	90.0
19	13.125	2.083	3.905	0.0	0.0	90.0
20	13.125	6.250	3.905	0.0	0.0	90.0
21	13.125	10.417	3.905	0.0	0.0	90.0
22	13.125	14.583	3.905	0.0	0.0	90.0
23	13.125	18.750	3.905	0.0	0.0	90.0
24	13.125	22.917	3.905	0.0	0.0	90.0
25	16.875	2.083	3.905	0.0	0.0	90.0
26	16.875	6.250	3.905	0.0	0.0	90.0
27	16.875	10.417	3.905	0.0	0.0	90.0
28	16.875	14.583	3.905	0.0	0.0	90.0



Operator
Telephone
Fax
e-Mail

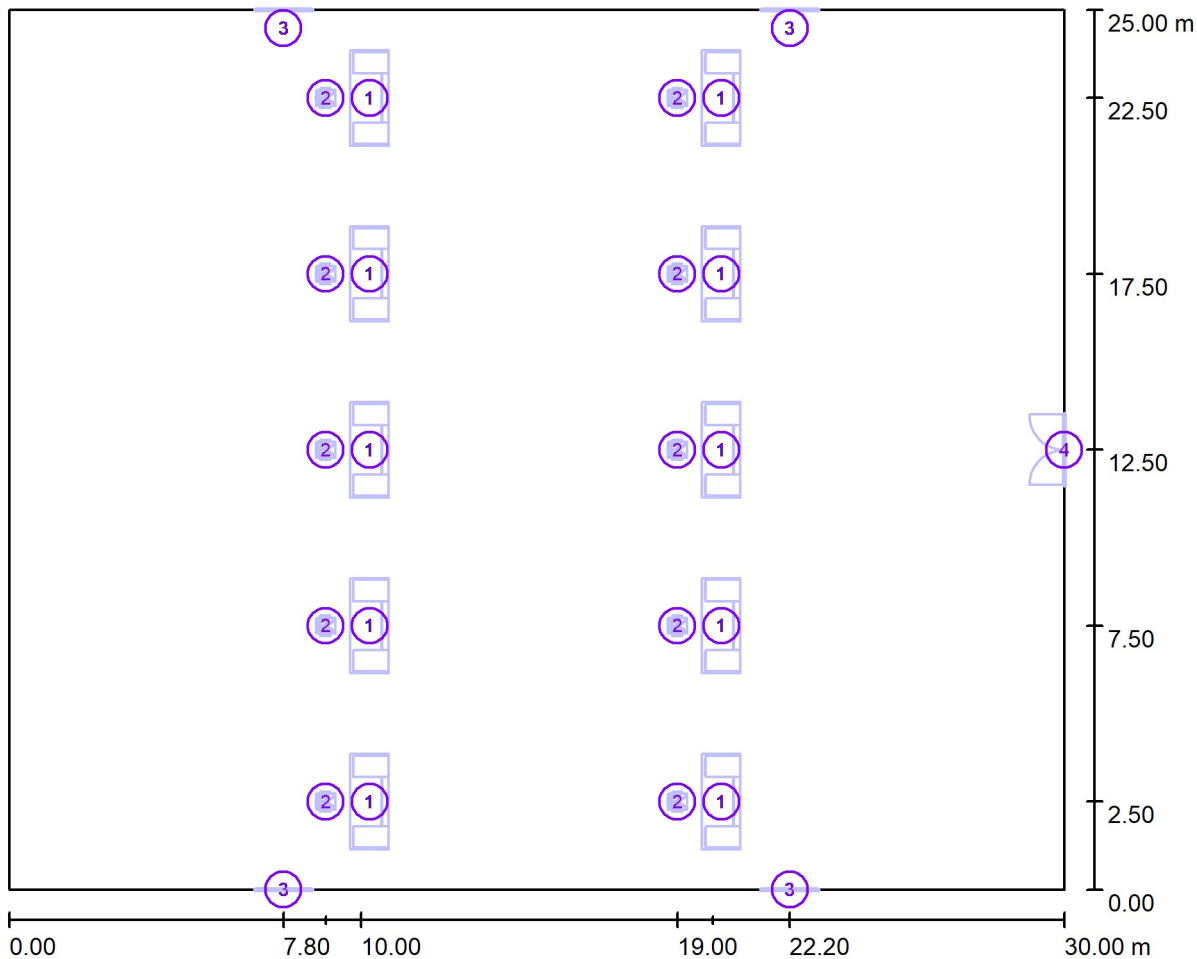
Room 1 / Luminaires (coordinates list)

No.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
29	16.875	18.750	3.905	0.0	0.0	90.0
30	16.875	22.917	3.905	0.0	0.0	90.0
31	20.625	2.083	3.905	0.0	0.0	90.0
32	20.625	6.250	3.905	0.0	0.0	90.0
33	20.625	10.417	3.905	0.0	0.0	90.0
34	20.625	14.583	3.905	0.0	0.0	90.0
35	20.625	18.750	3.905	0.0	0.0	90.0
36	20.625	22.917	3.905	0.0	0.0	90.0
37	24.375	2.083	3.905	0.0	0.0	90.0
38	24.375	6.250	3.905	0.0	0.0	90.0
39	24.375	10.417	3.905	0.0	0.0	90.0
40	24.375	14.583	3.905	0.0	0.0	90.0
41	24.375	18.750	3.905	0.0	0.0	90.0
42	24.375	22.917	3.905	0.0	0.0	90.0
43	28.125	2.083	3.905	0.0	0.0	90.0
44	28.125	6.250	3.905	0.0	0.0	90.0
45	28.125	10.417	3.905	0.0	0.0	90.0
46	28.125	14.583	3.905	0.0	0.0	90.0
47	28.125	18.750	3.905	0.0	0.0	90.0
48	28.125	22.917	3.905	0.0	0.0	90.0



Operator
Telephone
Fax
e-Mail

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



Operator
Telephone
Fax
e-Mail

Room 1 / Photometric Results

Total Luminous Flux: 834776 lm
Total Load: 6720.0 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	704	244	948	/	/
Floor	650	240	890	52	147
Ceiling	0.15	387	387	70	86
Wall 1	103	306	408	50	65
Wall 2	181	306	487	50	77
Wall 3	103	304	407	50	65
Wall 4	181	311	491	50	78

Uniformity on the working plane

u0: 0.090 (1:11)

E_{min} / E_{max}: 0.070 (1:14)

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.441, Ceiling / Working Plane: 0.409.

Specific connected load: $8.96 \text{ W/m}^2 = 0.95 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 750.00 m²)



Operator
Telephone
Fax
e-Mail

Room 1 / 3D Rendering

