

Vazdušna pucaona

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

Date: 02.07.2021
Operator:



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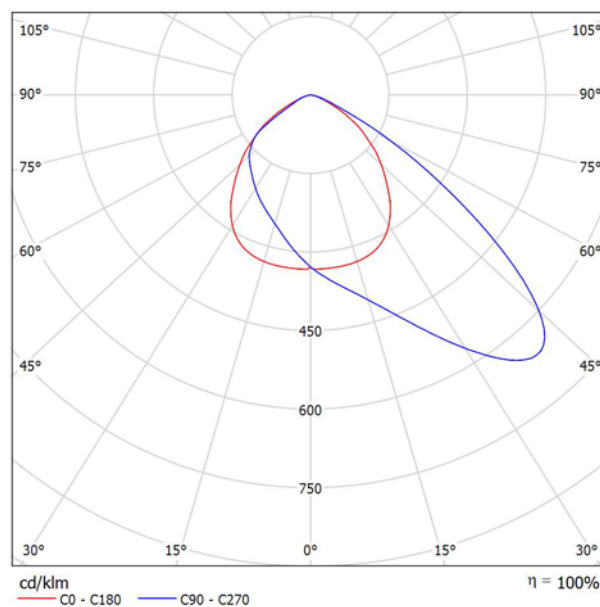


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THORNeco 96630255 (STD - standard) LEO LED FL IP66 200W 840 PC / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 100
CIE flux code: 53 91 99 100 100

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

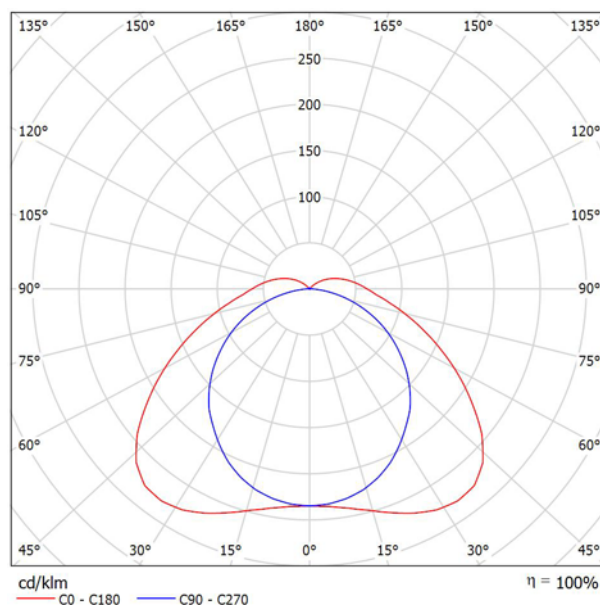


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ZUMTOBEL 92901935 (STD - standard) AQFPRO S LED5200-840 PC WB HF / Luminaire Data Sheet

Luminous emittance 1:

See our luminaire catalog for an image of the luminaire.



Luminaire classification according to CIE: 92
CIE flux code: 40 72 91 92 100

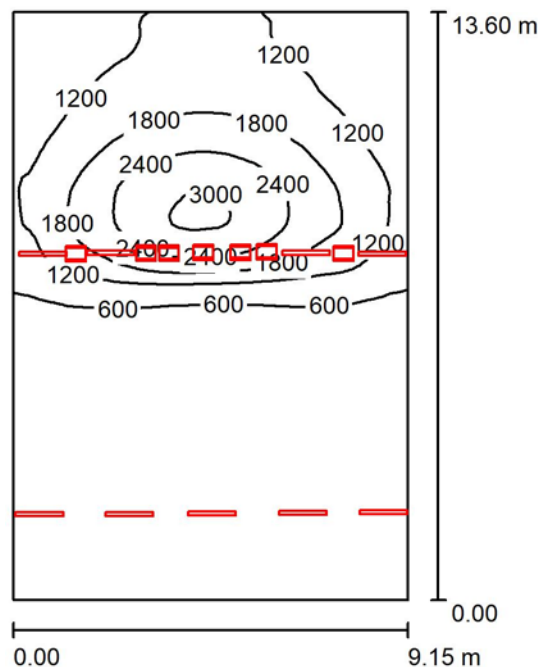
Luminous emittance 1:

Glare Evaluation According to UGR												
p Ceiling		70	70	50	50	30	70	70	50	50	30	30
p Walls		50	30	50	30	30	50	30	50	30	30	30
p 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	21.9	23.2	22.3	23.6	24.0	19.7	21.1	20.1	21.4	21.8	
	3H	23.6	24.8	24.0	25.2	25.6	21.1	22.3	21.5	22.7	23.1	
	4H	24.3	25.5	24.8	25.9	26.3	21.6	22.8	22.1	23.2	23.6	
	6H	25.0	26.1	25.5	26.5	27.0	22.0	23.1	22.5	23.5	24.0	
	8H	25.4	26.4	25.8	26.8	27.3	22.1	23.1	22.6	23.6	24.1	
4H	12H	25.7	26.7	26.2	27.1	27.6	22.2	23.1	22.7	23.6	24.1	
	2H	22.4	23.6	22.9	24.0	24.4	20.8	21.9	21.3	22.4	22.8	
	3H	24.3	25.3	24.8	25.7	26.2	22.3	23.3	22.8	23.8	24.3	
	4H	25.2	26.1	25.7	26.6	27.1	23.0	23.9	23.5	24.4	24.9	
	6H	26.1	26.9	26.6	27.4	28.0	23.5	24.2	24.0	24.7	25.3	
8H	8H	26.5	27.2	27.1	27.8	28.4	23.6	24.3	24.2	24.9	25.4	
	12H	27.0	27.6	27.5	28.1	28.7	23.7	24.4	24.3	24.9	25.5	
	4H	25.5	26.2	26.0	26.7	27.3	23.5	24.2	24.1	24.8	25.4	
	6H	26.5	27.1	27.1	27.7	28.3	24.2	24.8	24.8	25.3	26.0	
	8H	27.1	27.6	27.7	28.2	28.8	24.4	25.0	25.0	25.6	26.2	
12H	12H	27.7	28.1	28.3	28.7	29.4	24.6	25.1	25.2	25.7	26.3	
	4H	25.5	26.1	26.0	26.7	27.3	23.6	24.3	24.2	24.8	25.4	
	6H	26.6	27.1	27.2	27.7	28.3	24.4	24.9	25.0	25.5	26.1	
	8H	27.2	27.7	27.8	28.3	28.9	24.7	25.2	25.3	25.8	26.4	
Variation of the observer position for the luminaire distances S												
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1					
S = 1.5H		+0.2 / -0.3					+0.3 / -0.4					
S = 2.0H		+0.4 / -0.5					+0.5 / -0.7					
Standard table		BK07					BK06					
Correction		10.4					7.4					
Summand												
Corrected Glare Indices referring to 5180lm Total Luminous Flux												



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Vazdušna pucaona / Summary



Height of Room: 3.000 m, Mounting Height: 3.000 m, Light loss factor: 0.80

Values in Lux, Scale 1:175

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	962	263	3089	0.274
Floor	18	850	284	2165	0.334
Ceiling	80	300	98	5098	0.328
Walls (4)	46	701	177	7223	/

Workplane:

Height: 0.800 m
Grid: 128 x 128 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.767, Ceiling / Working Plane: 0.313.

Luminaire Parts List

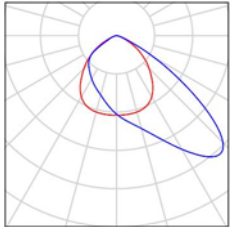
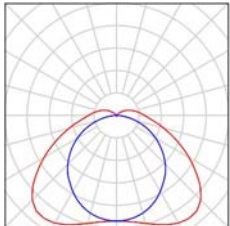
No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	7	THORNeco 96630255 (STD - standard) LEO LED FL IP66 200W 840 PC (1.000)	19998	20000	200.0
2	9	ZUMTOBEL 92901935 (STD - standard) AQFPRO S LED5200-840 PC WB HF (1.000)	5180	5180	41.7
Total:			186605	186620	1775.3

Specific connected load: $14.27 \text{ W/m}^2 = 1.48 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 124.44 m^2)



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Vazdušna pucaona / Luminaire parts list

- | | | | |
|----------|---|---|---|
| 7 Pieces | <p>THORNeco 96630255 (STD - standard) LEO LED
FL IP66 200W 840 PC
Article No.: 96630255 (STD - standard)
Luminous flux (Luminaire): 19998 lm
Luminous flux (Lamps): 20000 lm
Luminaire Wattage: 200.0 W
Luminaire classification according to CIE: 100
CIE flux code: 53 91 99 100 100
Fitting: 1 x LED-TE144 200W (Correction Factor 1.000).</p> | <p>See our luminaire catalog
for an image of the
luminaire.</p> |  |
| 9 Pieces | <p>ZUMTOBEL 92901935 (STD - standard) AQFPRO
S LED5200-840 PC WB HF
Article No.: 92901935 (STD - standard)
Luminous flux (Luminaire): 5180 lm
Luminous flux (Lamps): 5180 lm
Luminaire Wattage: 41.7 W
Luminaire classification according to CIE: 92
CIE flux code: 40 72 91 92 100
Fitting: 1 x Z_AQ5200-840 5180 41C7W
(Correction Factor 1.000).</p> | <p>See our luminaire catalog
for an image of the
luminaire.</p> |  |



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Vazdušna pucaona / Photometric Results

Total Luminous Flux: 186605 lm
Total Load: 1775.3 W
Light loss factor: 0.80
Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	687	275	962	/	/
Calculation Surface 1	1310	289	1599	/	/
Floor	573	276	850	18	49
Ceiling	78	221	300	80	76
Wall 1	165	140	306	46	45
Wall 2	306	224	530	46	78
Wall 3	1278	292	1570	46	230
Wall 4	319	234	552	46	81

Uniformity on the working plane

u0: 0.274 (1:4)

E_{min} / E_{max}: 0.085 (1:12)

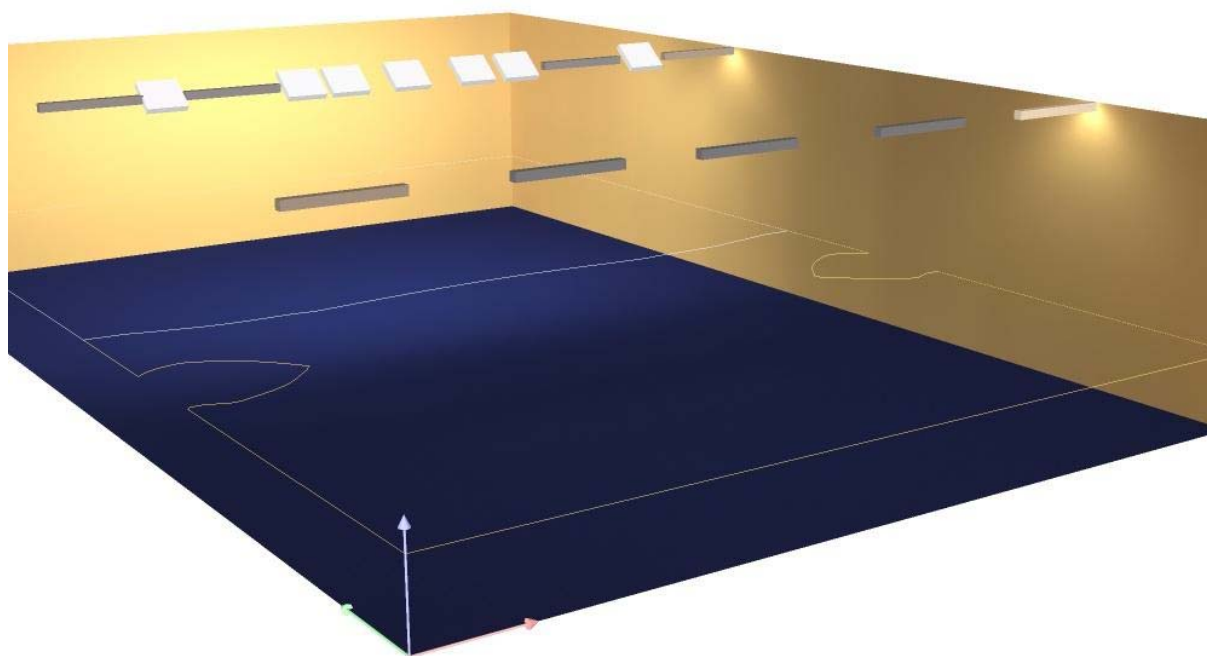
Illuminance Quotient (according to LG7): Walls / Working Plane: 0.767, Ceiling / Working Plane: 0.313.

Specific connected load: 14.27 W/m² = 1.48 W/m²/100 lx (Ground area: 124.44 m²)



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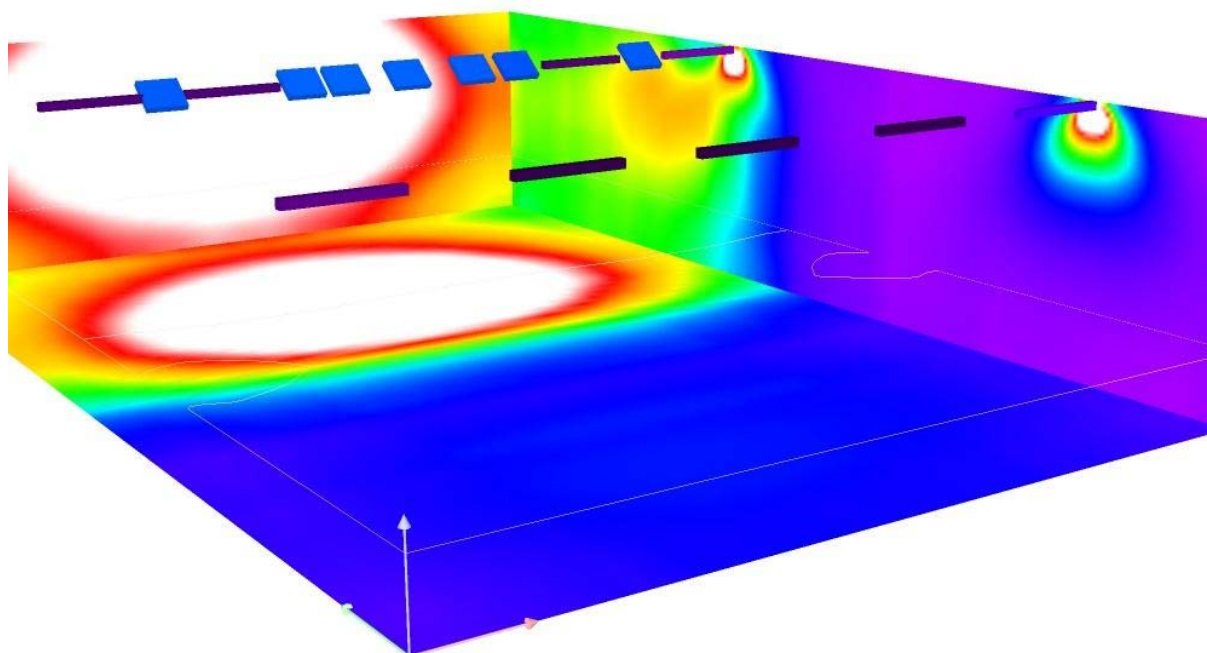
Vazdušna pucaona / 3D Rendering





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Vazdušna pucaona / False Color Rendering



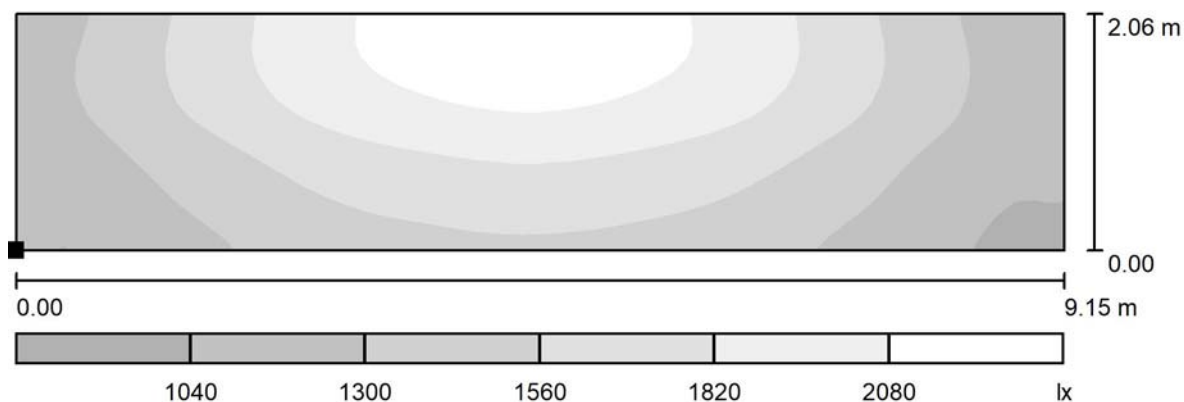
0 187.50 375 562.50 750 937.50 1125 1312.50 1500

lx



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Vazdušna pucaona / Calculation Surface 1 / Greyscale (E, Perpendicular)



Scale 1 : 66

Position of surface in room:
Marked point:
(0.000 m, 13.600 m, 0.259 m)



Grid: 64 x 16 Points

E_{av} [lx]
1599

E_{min} [lx]
977

E_{max} [lx]
2270

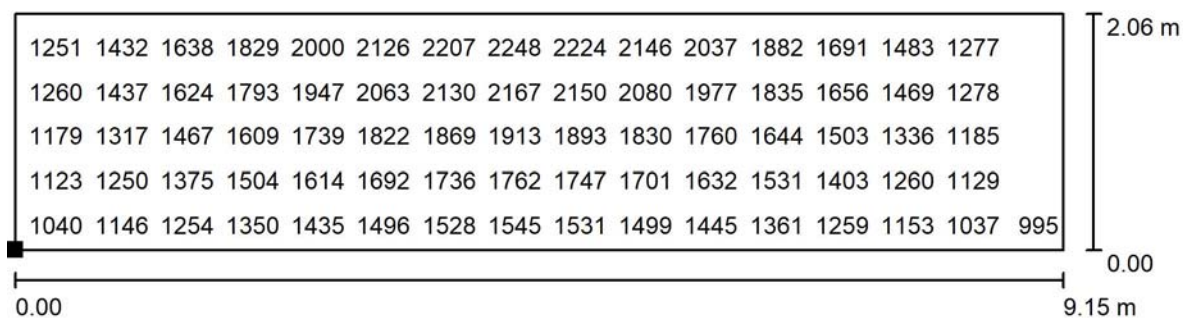
u_0
0.611

E_{min} / E_{max}
0.430



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Vazdušna pucaona / Calculation Surface 1 / Value Chart (E, Perpendicular)



Values in Lux, Scale 1 : 66

Not all calculated values could be displayed.

Position of surface in room:
Marked point:
(0.000 m, 13.600 m, 0.259 m)



Grid: 64 x 16 Points

E_{av} [lx]
1599

E_{min} [lx]
977

E_{max} [lx]
2270

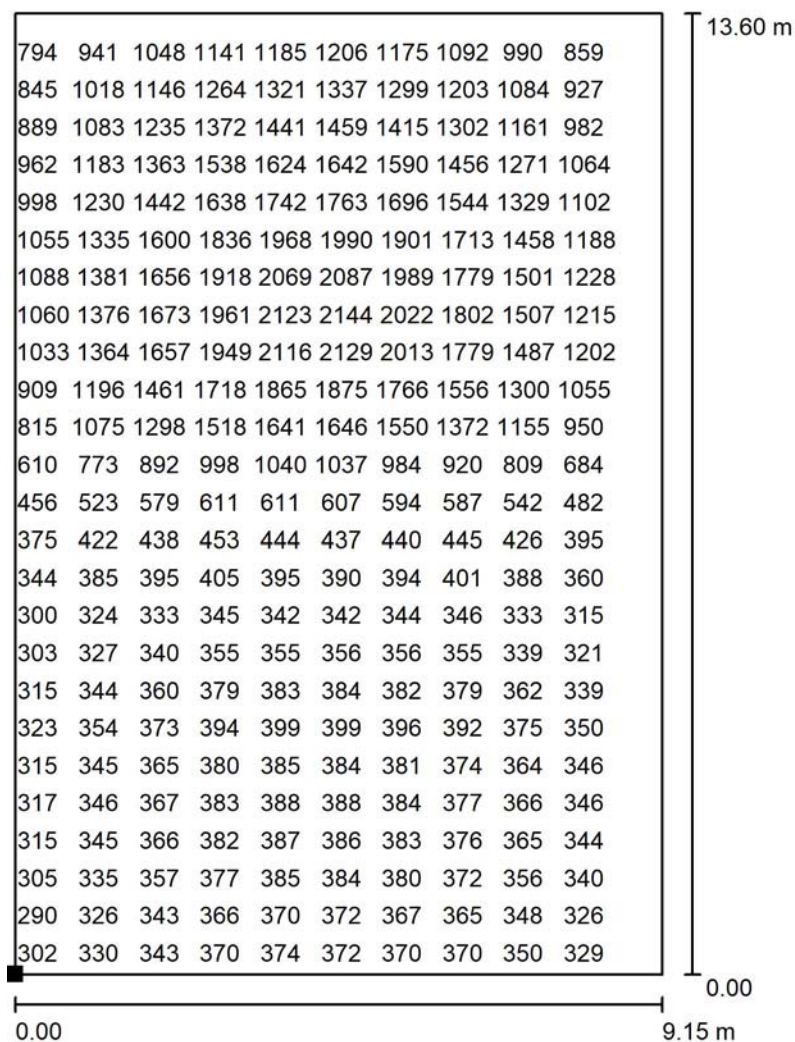
u_0
0.611

E_{min} / E_{max}
0.430



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Vazdušna pucaona / Floor / Value Chart (E)



Values in Lux, Scale 1 : 107

Not all calculated values could be displayed.

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



Grid: 128 x 128 Points

E_{av} [lx]
850

E_{min} [lx]
284

E_{max} [lx]
2165

u_0
0.334

E_{min} / E_{max}
0.131