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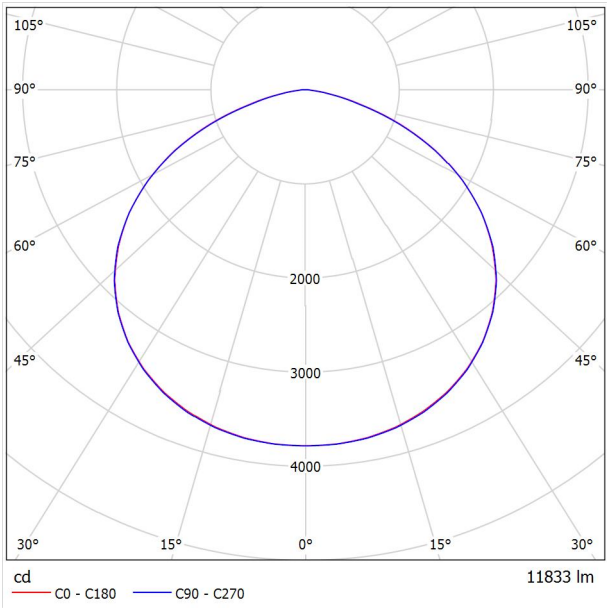
ELBA 0141 IEV-08 24 LED/350 4000K 70CRI 11844LM / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 100
CIE flux code: 46 80 97 100 100

IEV-08 LED
LED, 230V/50Hz, IP65/IP55 EM3H, IK08, CE, ROHS, DEEE

Indoor projector. Industrial high bay projector.

Lighting for sport areas and large spaces. Indoor lighting for ample interior spaces: industrial plants, warehouses, commercial spaces.
Die cast aluminium body. Diffuser from transparent secured glass. The optical system contains the power LEDs and the specialised optics.
Mounting system with tilting facility for easy orientation of the luminous flux with index with 20˚ step. Gear (LED driver) included in the product and manufactured according to the specific standards.
Standards: EN 60598-1, EN 60598-2-1,

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	25.6	27.0	25.9	27.2	27.4	25.7	27.0	26.0	27.2	27.5
	3H	27.0	28.3	27.4	28.5	28.8	27.1	28.3	27.4	28.5	28.8
	4H	27.4	28.6	27.8	28.9	29.2	27.4	28.6	27.8	28.9	29.2
	6H	27.6	28.7	28.0	29.0	29.3	27.6	28.7	28.0	29.0	29.3
	8H	27.7	28.7	28.0	29.0	29.3	27.6	28.6	28.0	29.0	29.3
	12H	27.6	28.6	28.0	28.9	29.3	27.6	28.6	28.0	28.9	29.2
4H	2H	26.3	27.5	26.7	27.7	28.0	26.3	27.5	26.7	27.8	28.1
	3H	27.9	28.8	28.3	29.2	29.5	27.9	28.9	28.3	29.2	29.5
	4H	28.4	29.2	28.8	29.6	30.0	28.4	29.2	28.8	29.6	29.9
	6H	28.6	29.4	29.1	29.8	30.2	28.6	29.4	29.0	29.7	30.1
	8H	28.7	29.4	29.1	29.8	30.2	28.7	29.4	29.1	29.7	30.2
	12H	28.7	29.3	29.1	29.7	30.2	28.7	29.3	29.1	29.7	30.1
8H	4H	28.6	29.3	29.0	29.7	30.1	28.6	29.3	29.0	29.7	30.1
	6H	28.9	29.5	29.4	29.9	30.4	28.9	29.5	29.4	29.9	30.3
	8H	29.0	29.5	29.5	29.9	30.4	29.0	29.5	29.5	29.9	30.4
	12H	29.0	29.4	29.5	29.9	30.4	29.0	29.4	29.5	29.9	30.4
12H	4H	28.6	29.2	29.0	29.6	30.0	28.6	29.2	29.0	29.6	30.0
	6H	28.9	29.4	29.4	29.9	30.3	28.9	29.4	29.4	29.9	30.3
	8H	29.0	29.4	29.5	29.9	30.4	29.0	29.4	29.5	29.9	30.4

Variation of the observer position for the luminaire distances S

S = 1.0H	+0.1 / -0.1	+0.1 / -0.2
S = 1.5H	+0.3 / -0.5	+0.4 / -0.5
S = 2.0H	+0.5 / -0.9	+0.5 / -1.0
Standard table	BK04	BK04
Correction Summand	11.3	11.3

Corrected Glare Indices referring to 11833lm Total Luminous Flux

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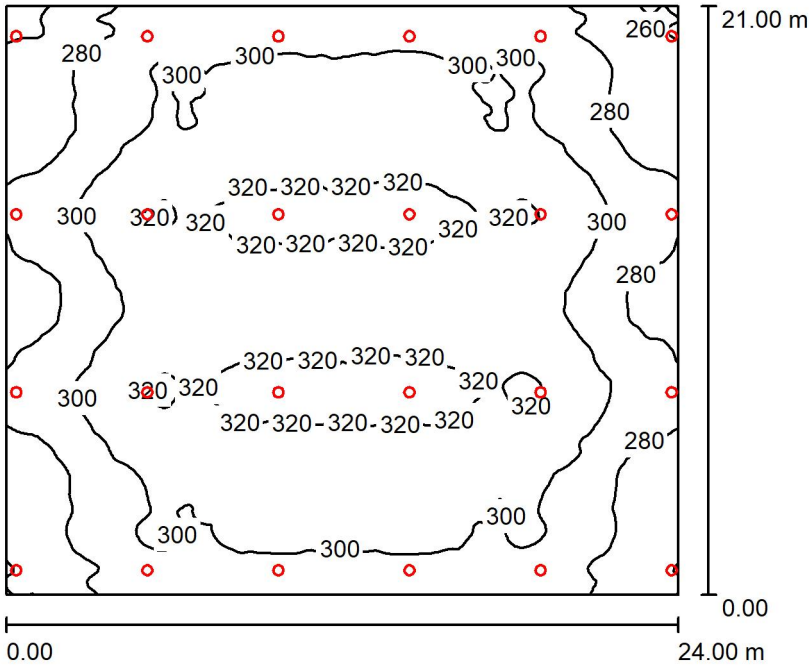
Room 1 / Summary



Height of Room: 6.200 m, Mounting Height: 6.100 m, Light loss factor: 0.67

Values in Lux, Scale 1:270

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0
Workplane	/	300	253	326	0.846
Floor	20	289	227	317	0.785
Ceiling	80	81	64	442	0.798
Walls (4)	50	230	77	14241	/

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

UGR (CIE, SHR = 0.25.)

	Lengthways-	Across	to luminaire axis
Left Wall	28	28	
Lower Wall	28	28	

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.807, Ceiling / Working Plane: 0.269.

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	24	ELBA 0141 IEV-08 24 LED/350 4000K 70CRI 11844LM (1.000)	11833	11833	105.0
			Total: 283992	Total: 283992	2520.0

Specific connected load: 5.00 W/m² = 1.67 W/m²/100 lx (Ground area: 504.00 m²)

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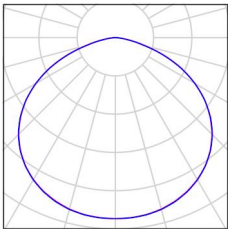
Room 1 / Luminaire parts list

24 Pieces ELBA 0141 IEV-08 24 LED/350 4000K 70CRI 11844LM
Article No.: 0141
Luminous flux (Luminaire): 11833 lm
Luminous flux (Lamps): 11833 lm
Luminaire Wattage: 105.0 W
Luminaire classification according to CIE: 100
CIE flux code: 46 80 97 100 100
Fitting: 1 x LED 4000K 80CRI G2 (Correction Factor 1.000).



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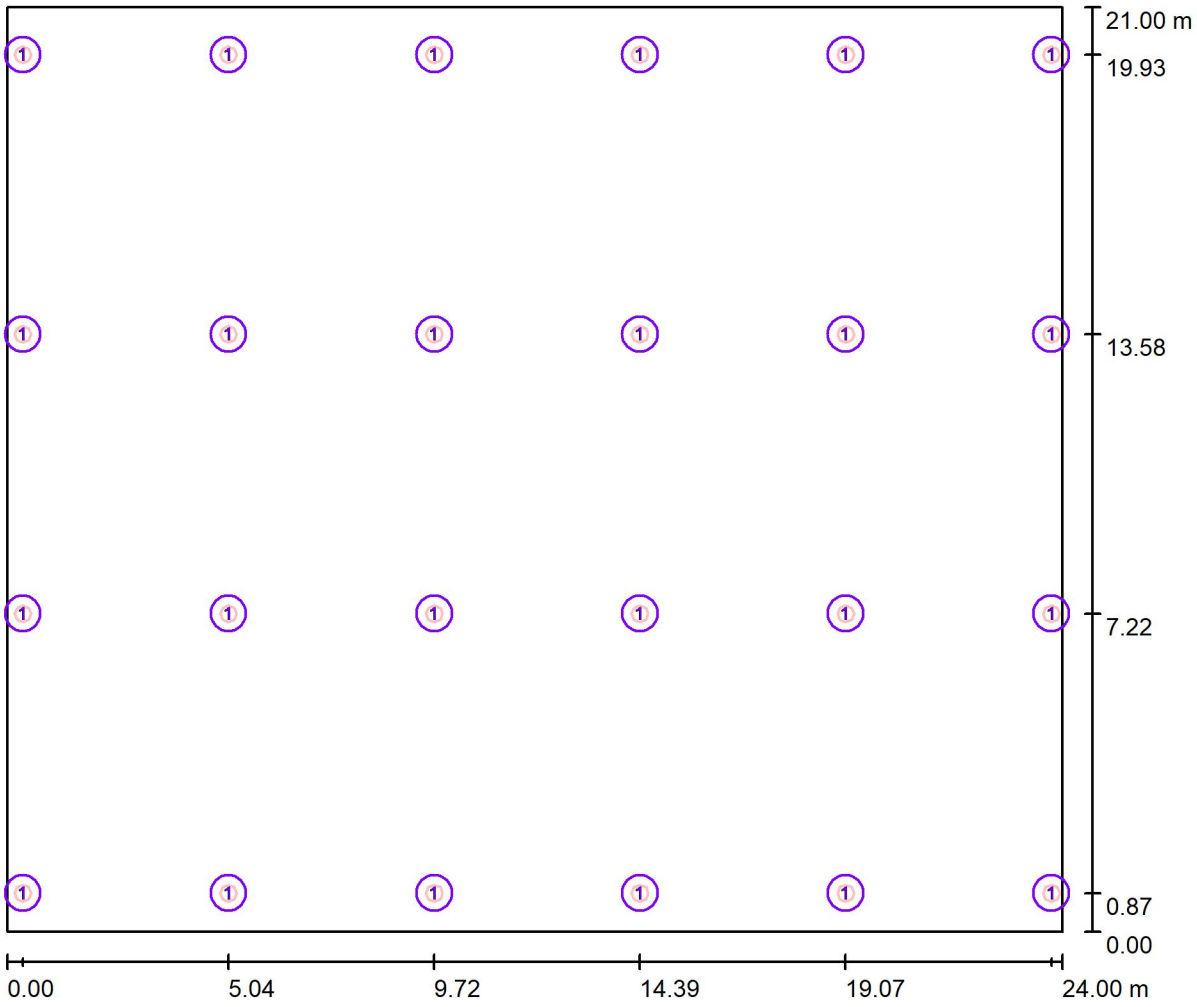
Room 1 / Luminaires (layout plan)



Scale 1 : 172

Luminaire Parts List

No.	Pieces	Designation
1	24	ELBA 0141 IEV-08 24 LED/350 4000K 70CRI 11844LM

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Room 1 / Photometric Results

Total Luminous Flux: 283992 lm
Total Load: 2520.0 W
Light loss factor: 0.67
Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	221	79	300	/	/
Floor	210	79	289	20	18
Ceiling	0.15	80	81	80	21
Wall 1	149	79	228	50	36
Wall 2	160	78	238	50	38
Wall 3	142	77	220	50	35
Wall 4	155	79	234	50	37

Uniformity on the working plane
u0: 0.846 (1:1)
E_{min} / E_{max}: 0.776 (1:1)

UGR	Lengthways-	Across	to luminaire axis
Left Wall	28	28	
Lower Wall	28	28	

(CIE, SHR = 0.25.)

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.807, Ceiling / Working Plane: 0.269.

Specific connected load: 5.00 W/m² = 1.67 W/m²/100 lx (Ground area: 504.00 m²)

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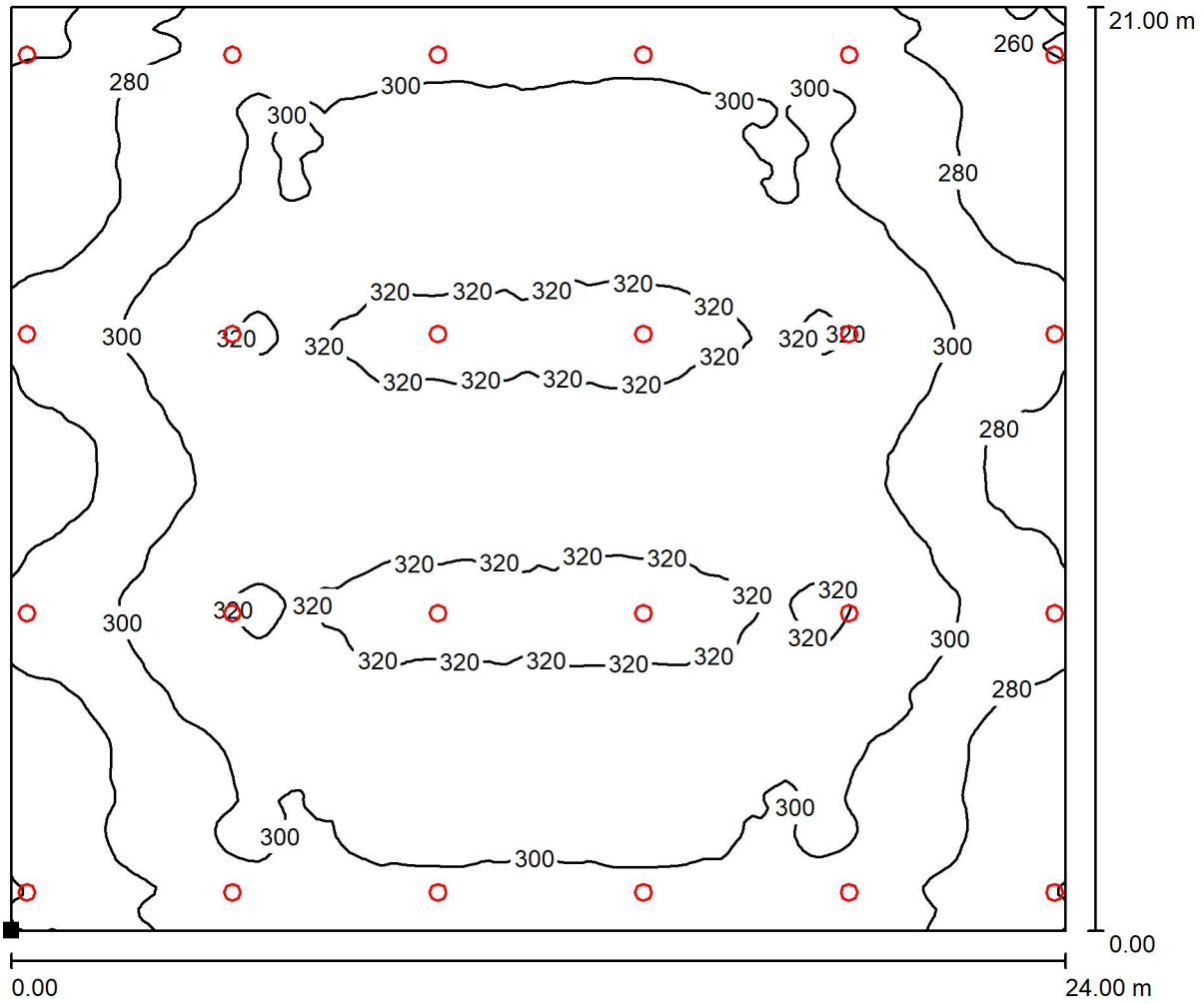
Room 1 / Workplane / Isolines (E)



Values in Lux, Scale 1 : 172

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

Grid: 128 x 128 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u0	E_{min} / E_{max}
300	253	326	0.846	0.776