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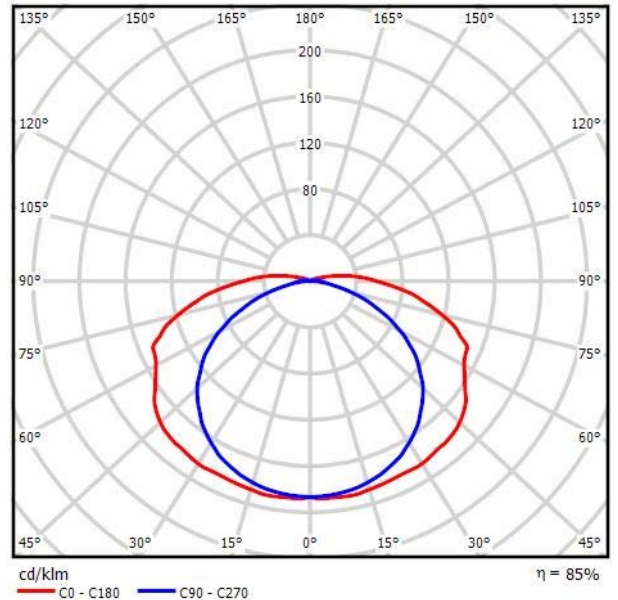
ESSYSTEM 6847000 CO2 254 / Luminaire Data Sheet

Luminous emittance 1:



Luminaire classification according to CIE: 95
CIE flux code: 35 64 87 95 85

Ceiling mounted or pendant luminaire. Fluorescent tubes. Standard or dimmable electronic ballasts. Housing of grey PC. Clear PC diffuser. White reflector of steel sheet. Enclosed emergency pack installed on request. Suspensions not included. Industrial lighting, car parks, commercial facilities.

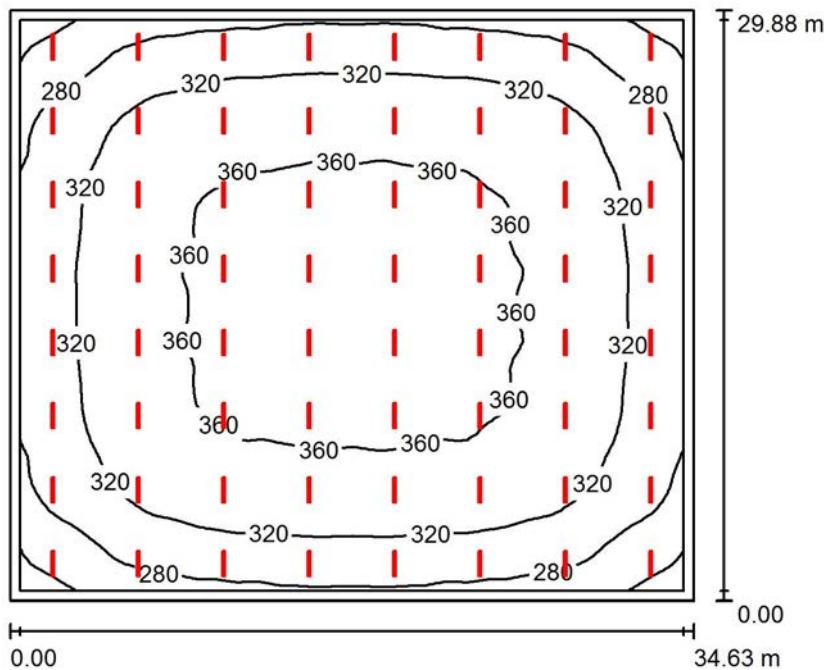


Luminous emittance 1:

Glare Evaluation According to UGR												
e Ceiling		70	70	50	50	30	70	70	50	50	30	
e Walls		50	30	50	30	30	50	30	50	30	30	
e 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	22.4	23.8	22.7	24.2	24.5	20.3	21.8	20.7	22.1	22.5	
	3H	25.4	26.8	25.8	27.1	27.5	22.2	23.5	22.6	23.9	24.3	
	4H	26.8	28.1	27.3	28.5	28.9	22.9	24.1	23.3	24.5	24.9	
	6H	28.2	29.3	28.6	29.7	30.2	23.3	24.5	23.8	24.9	25.3	
	8H	28.8	30.0	29.3	30.4	30.8	23.5	24.6	23.9	25.0	25.5	
12H	29.5	30.6	30.0	31.1	31.5	23.6	24.7	24.0	25.1	25.6		
4H	2H	23.0	24.3	23.5	24.7	25.1	21.6	22.9	22.1	23.3	23.7	
	3H	26.4	27.5	26.9	28.0	28.4	23.9	25.0	24.4	25.5	25.9	
	4H	28.0	29.0	28.5	29.5	30.0	24.9	25.9	25.4	26.3	26.8	
	6H	29.6	30.4	30.1	30.9	31.4	25.6	26.5	26.1	27.0	27.5	
	8H	30.3	31.1	30.8	31.6	32.2	25.9	26.7	26.4	27.2	27.7	
12H	31.2	31.9	31.7	32.4	33.0	26.1	26.8	26.6	27.3	27.9		
8H	4H	28.5	29.3	29.0	29.8	30.4	26.1	26.9	26.6	27.4	28.0	
	6H	30.3	31.0	30.9	31.5	32.1	27.3	28.0	27.8	28.5	29.1	
	8H	31.3	31.9	31.9	32.4	33.0	27.8	28.4	28.3	28.9	29.5	
	12H	32.3	32.9	32.9	33.4	34.1	28.2	28.7	28.8	29.3	29.9	
	4H	28.6	29.3	29.1	29.8	30.4	26.4	27.2	26.9	27.7	28.2	
12H	6H	30.5	31.1	31.1	31.6	32.2	27.8	28.4	28.3	28.9	29.5	
	8H	31.6	32.1	32.1	32.7	33.3	28.4	29.0	29.0	29.5	30.2	
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					+0.2 / -0.2					
S = 2.0H		+0.3 / -0.4					+0.4 / -0.6					
Standard table		BK12					BK13					
Correction Summand		7.7					2.8					
Corrected Glare Indices referring to 8900lm Total Luminous Flux												

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Room 1 / Summary



Height of Room: 6.000 m, Mounting Height: 6.000 m, Maintenance factor: 0.80

Values in Lux, Scale 1:384

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	328	221	373	0.675
Floor	20	311	188	366	0.606
Ceiling	70	98	78	174	0.795
Walls (4)	50	248	148	381	/

Workplane:

Height: 0.750 m
Grid: 64 x 64 Points
Boundary Zone: 0.500 m

UGR

Left Wall
Lower Wall
(CIE, SHR = 1.00.)

Lengthways-

>30
>30

Across

28
27

to luminaire axis

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.779, Ceiling / Working Plane: 0.300.

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ (Luminaire) [lm]	Φ (Lamps) [lm]	P [W]
1	64	ESSYSTEM 6847000 CO2 254 (1.000)	7533	8900	114.0
Total:			482087	569600	7296.0

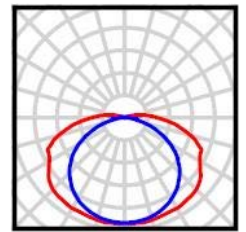
Specific connected load: $7.05 \text{ W/m}^2 = 2.15 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 1034.65 m^2)



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Room 1 / Luminaire parts list

64 Pieces ESSYSTEM 6847000 CO2 254
Article No.: 6847000
Luminous flux (Luminaire): 7533 lm
Luminous flux (Lamps): 8900 lm
Luminaire Wattage: 114.0 W
Luminaire classification according to CIE: 95
CIE flux code: 35 64 87 95 85
Fitting: 2 x T16 54/830 (Correction Factor 1.000).





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Room 1 / Photometric Results

Total Luminous Flux: 482087 lm
Total Load: 7296.0 W
Maintenance factor: 0.80
Boundary Zone: 0.500 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m²]
	direct	indirect	total		
Workplane	246	82	328	/	/
Floor	228	83	311	20	20
Ceiling	17	81	98	70	22
Wall 1	153	77	230	50	37
Wall 2	192	78	270	50	43
Wall 3	153	77	230	50	37
Wall 4	192	77	268	50	43

Uniformity on the working plane

u0: 0.675 (1:1)

E_{min} / E_{max}: 0.594 (1:2)

UGR

Left Wall

Lower Wall

(CIE, SHR = 1.00.)

Lengthways-

>30

>30

Across

28

27

to luminaire axis

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.779, Ceiling / Working Plane: 0.300.

Specific connected load: 7.05 W/m² = 2.15 W/m²/100 lx (Ground area: 1034.65 m²)