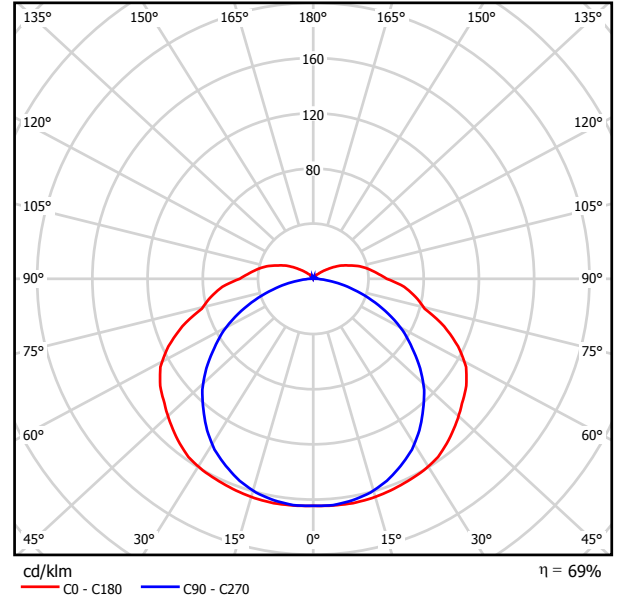


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BEGHELLI ELPLAST BS101 2x58 RE BS101 2x58 RE / Luminaire Data Sheet

See our luminaire catalog for an image of the luminaire.

Luminous emittance 1:



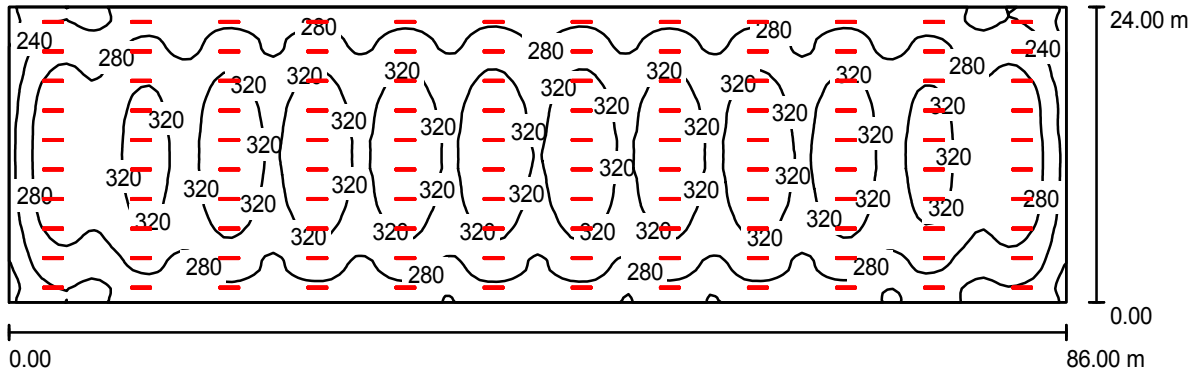
Luminaire classification according to CIE: 90
CIE flux code: 38 68 89 91 70

Luminous emittance 1:

Glare Evaluation According to UGR											
h Ceiling	70	70	50	50	30	70	70	50	50	30	
h Walls	50	30	50	30	30	50	30	50	30	30	
h 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	20.0	21.3	20.4	21.7	22.2	18.2	19.6	18.7	20.0	20.4
	3H	22.2	23.4	22.7	23.8	24.3	19.8	21.0	20.2	21.4	21.9
	4H	23.1	24.3	23.6	24.7	25.2	20.3	21.5	20.8	21.9	22.4
	6H	24.0	25.1	24.5	25.6	26.1	20.7	21.8	21.2	22.3	22.8
	8H	24.5	25.5	25.0	26.0	26.5	20.8	21.9	21.3	22.3	22.9
4H	12H	24.9	25.9	25.4	26.4	26.9	20.9	21.9	21.4	22.4	22.9
	2H	20.5	21.6	20.9	22.0	22.5	19.1	20.3	19.6	20.7	21.2
	3H	23.0	24.0	23.5	24.5	25.0	21.0	22.0	21.6	22.5	23.1
	4H	24.1	25.0	24.6	25.5	26.1	21.8	22.7	22.3	23.2	23.7
	6H	25.2	26.0	25.7	26.5	27.1	22.2	23.0	22.8	23.6	24.2
8H	8H	25.7	26.4	26.3	27.0	27.6	22.4	23.1	23.0	23.7	24.3
	12H	26.2	26.9	26.8	27.5	28.1	22.5	23.2	23.1	23.7	24.4
	4H	24.4	25.1	24.9	25.6	26.3	22.4	23.2	23.0	23.7	24.3
	6H	25.7	26.3	26.3	26.9	27.6	23.2	23.8	23.8	24.4	25.0
	8H	26.4	26.9	27.0	27.5	28.2	23.5	24.0	24.1	24.6	25.3
12H	12H	27.1	27.6	27.7	28.2	28.9	23.7	24.1	24.3	24.8	25.5
	4H	24.4	25.0	25.0	25.6	26.3	22.6	23.2	23.2	23.8	24.5
	6H	25.8	26.3	26.4	26.9	27.6	23.5	24.0	24.1	24.6	25.3
8H	26.6	27.0	27.2	27.7	28.4	23.8	24.3	24.5	24.9	25.6	
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 / -0.2					+0.2 / -0.2					
S = 2.0H	+0.3 / -0.4					+0.3 / -0.6					
Standard table	BK09					BK14					
Correction Summand	1.0					-2.1					
Corrected Glare Indices referring to 10400lm 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 1:615

Surface	ρ [%]	E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	u_0
Workplane	/	298	185	349	0.62
Floor	20	289	189	337	0.65
Ceiling	70	105	64	893	0.61
Walls (4)	50	226	136	629	/

Workplane:

Height: 0.750 m
Grid: 128 x 64 Points
Boundary Zone: 0.000 m

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.780, Ceiling / Working Plane: 0.353.

Luminaire Parts List

No.	Pieces	Designation (Correction Factor)	Φ [lm]	P [W]
1	120	BEGHELLI ELPLAST BS101 2x58 RE BS101 2x58 RE (1.000)	10400	116.0
Total:			1248000	13920.0

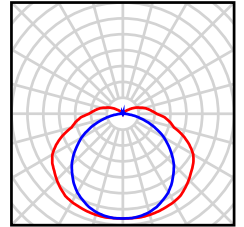
Specific connected load: $6.74 \text{ W/m}^2 = 2.27 \text{ W/m}^2/100 \text{ lx}$ (Ground area: 2064.00 m^2)

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Room 1 / Luminaire parts list

120 Pieces BEGHELLI ELPLAST BS101 2x58 RE BS101
2x58 RE
Article No.: BS101 2x58 RE
Luminaire Luminous Flux: 10400 lm
Luminaire Wattage: 116.0 W
Luminaire classification according to CIE: 90
CIE flux code: 38 68 89 91 70
Fitting: 2 x OSRAM L58W/21-840 (Correction
Factor 1.000).

See our luminaire
catalog for an image of
the luminaire.



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Room 1 / Photometric Results

Total Luminous Flux: 1248000 lm
Total Load: 13920.0 W
Maintenance factor: 0.80
Boundary Zone: 0.000 m

Surface	Average illuminances [lx]			Reflection factor [%]	Average luminance [cd/m ²]
	direct	indirect	total		
Workplane	215	82	298	/	/
Floor	206	83	289	20	18
Ceiling	31	74	105	70	23
Wall 1	166	74	240	50	38
Wall 2	103	77	180	50	29
Wall 3	166	73	239	50	38
Wall 4	103	74	177	50	28

Uniformity on the working plane

u₀: 0.62

E_{min} / E_{max}: 0.53

Illuminance Quotient (according to LG7): Walls / Working Plane: 0.780, Ceiling / Working Plane: 0.353.

Specific connected load: 6.74 W/m² = 2.27 W/m²/100 lx (Ground area: 2064.00 m²)