

Photometric test report

Family
Silica® 21 round L

Order number: 51MF31DC4NBA
EAN: 4069025807717

LP number
60084_11

serial
documentation
20.05.2026

siteco



Version

Suspended luminaire, housing, black, cover, opal, direct-/ indirect distribution, extremely wide distribution, UGR≤22

Lamps

LED 4000 K | CRI ≥ 80

Controlgear

ECG-DALI

Rated values

Net luminous flux = 15580 lm

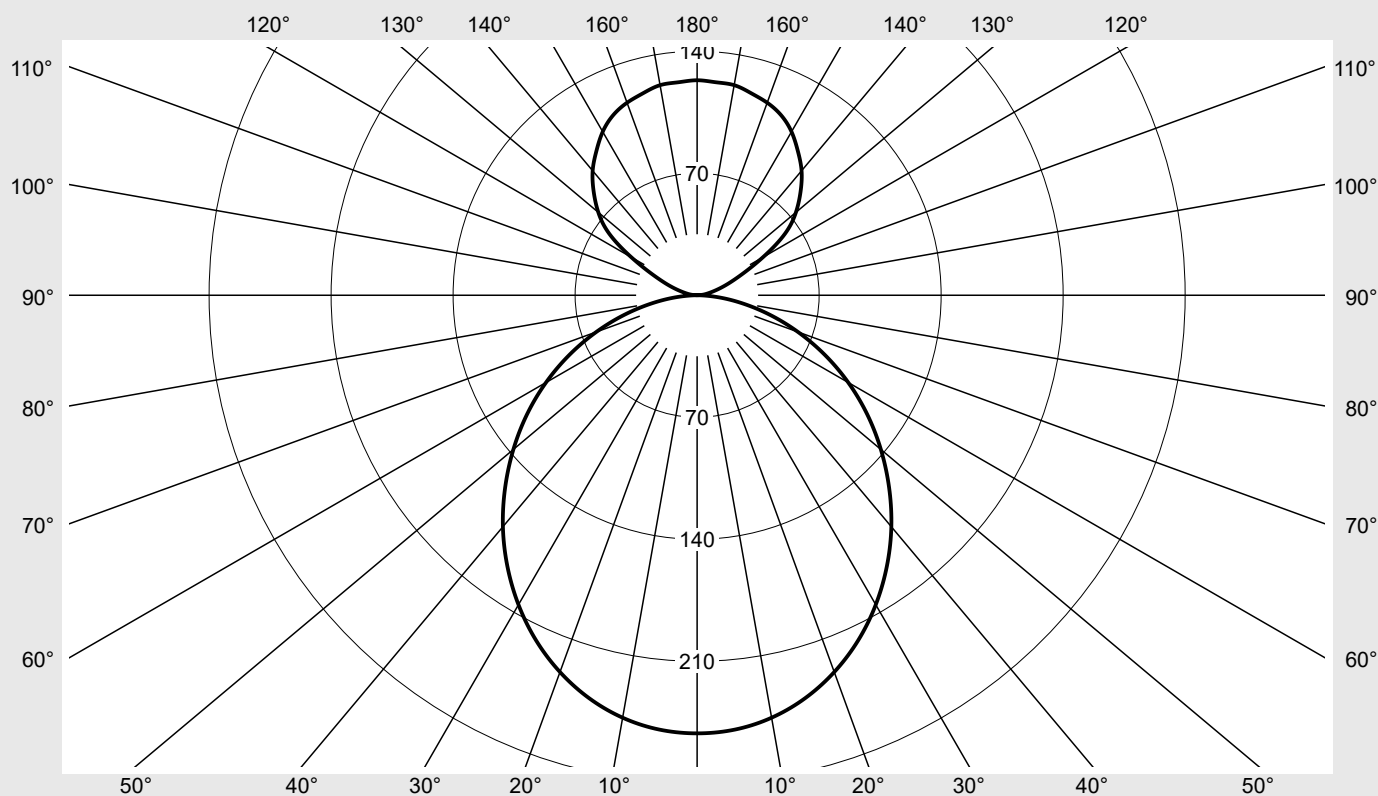
Power consumption = 88.8 W

Luminous efficacy = 175.5 lm/W

Luminous intensity in cd/klm

C180-0

Imax: 251 cd/klm



Classifications

DIN 5040 B 4 3
CIE N1=49 N2=79 N3=96
N4=68 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 67.6%
 ϕ_o 32.4%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity

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C- planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm		Luminous flux in lm/klm
0°	251.4	1.5	1.5
5°	250.1	11.9	13.5
10°	246.1	23.4	36.9
15°	239.3	34.0	70.8
20°	230.0	43.1	114.0
25°	218.5	50.6	164.6
30°	205.0	56.2	220.8
35°	189.8	59.7	280.4
40°	173.4	61.1	341.5
45°	155.7	60.4	401.9
50°	137.6	57.8	459.7
55°	119.2	53.5	513.2
60°	100.1	47.5	560.7
65°	80.8	40.1	600.8
70°	61.6	31.7	632.5
75°	43.1	22.8	655.4
80°	26.0	14.0	669.4
85°	11.1	6.1	675.5
90°	0.7	0.4	675.8
95°	2.8	1.5	677.4
100°	6.3	3.4	680.8
105°	11.1	5.9	686.7
110°	18.3	9.4	696.1
115°	28.2	14.0	710.1
120°	43.6	20.7	730.8
125°	61.5	27.6	758.5
130°	74.0	31.1	789.5
135°	83.9	32.5	822.1
140°	93.2	32.9	854.9
145°	100.8	31.7	886.6
150°	108.3	29.7	916.3
155°	114.0	26.4	942.7
160°	117.6	22.0	964.7
165°	120.0	17.0	981.8
170°	122.4	11.7	993.4
175°	122.7	5.9	999.3
180°	123.4	0.7	1000.0

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UGR-Table		Standard room							siTeco		
Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	16.0	17.1	16.8	17.9	18.8	16.0	17.1	16.8	17.9	18.8
	3H	17.4	18.4	18.2	19.2	20.2	17.4	18.4	18.2	19.2	20.2
	4H	18.1	19.0	18.9	19.8	20.8	18.1	19.0	18.9	19.8	20.8
	6H	18.5	19.4	19.3	20.2	21.2	18.5	19.4	19.3	20.2	21.2
	8H	18.6	19.4	19.4	20.2	21.3	18.6	19.4	19.4	20.2	21.3
	12H	18.7	19.4	19.5	20.3	21.3	18.7	19.4	19.5	20.3	21.3
4H	2H	16.6	17.5	17.4	18.4	19.3	16.6	17.5	17.4	18.4	19.3
	3H	18.3	19.1	19.1	19.9	20.9	18.3	19.1	19.1	19.9	20.9
	4H	19.0	19.7	19.8	20.5	21.6	19.0	19.7	19.8	20.5	21.6
	6H	19.6	20.2	20.4	21.0	22.1	19.6	20.2	20.4	21.0	22.1
	8H	19.7	20.2	20.5	21.1	22.2	19.7	20.2	20.5	21.1	22.2
	12H	19.8	20.3	20.7	21.2	22.3	19.8	20.3	20.7	21.2	22.3
8H	4H	19.2	19.8	20.1	20.6	21.7	19.2	19.8	20.1	20.6	21.7
	6H	19.8	20.3	20.7	21.2	22.3	19.8	20.3	20.7	21.2	22.3
	8H	20.1	20.5	21.0	21.4	22.6	20.1	20.5	21.0	21.4	22.6
	12H	20.4	20.7	21.3	21.6	22.8	20.4	20.7	21.3	21.6	22.8
12H	4H	19.2	19.7	20.1	20.6	21.7	19.2	19.7	20.1	20.6	21.7
	6H	20.0	20.4	20.9	21.3	22.4	20.0	20.4	20.9	21.3	22.4
	8H	20.3	20.6	21.2	21.5	22.7	20.3	20.6	21.2	21.5	22.7

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm: D = 886
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C-planes		0°
γ	Luminance in cd/m²	
45°	5565.5	
50°	5410.2	
55°	5249.4	
60°	5060.5	
65°	4831.0	
70°	4548.5	
75°	4209.5	
80°	3778.3	
85°	3227.4	

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Luminance values in cd/m²

γ 65°

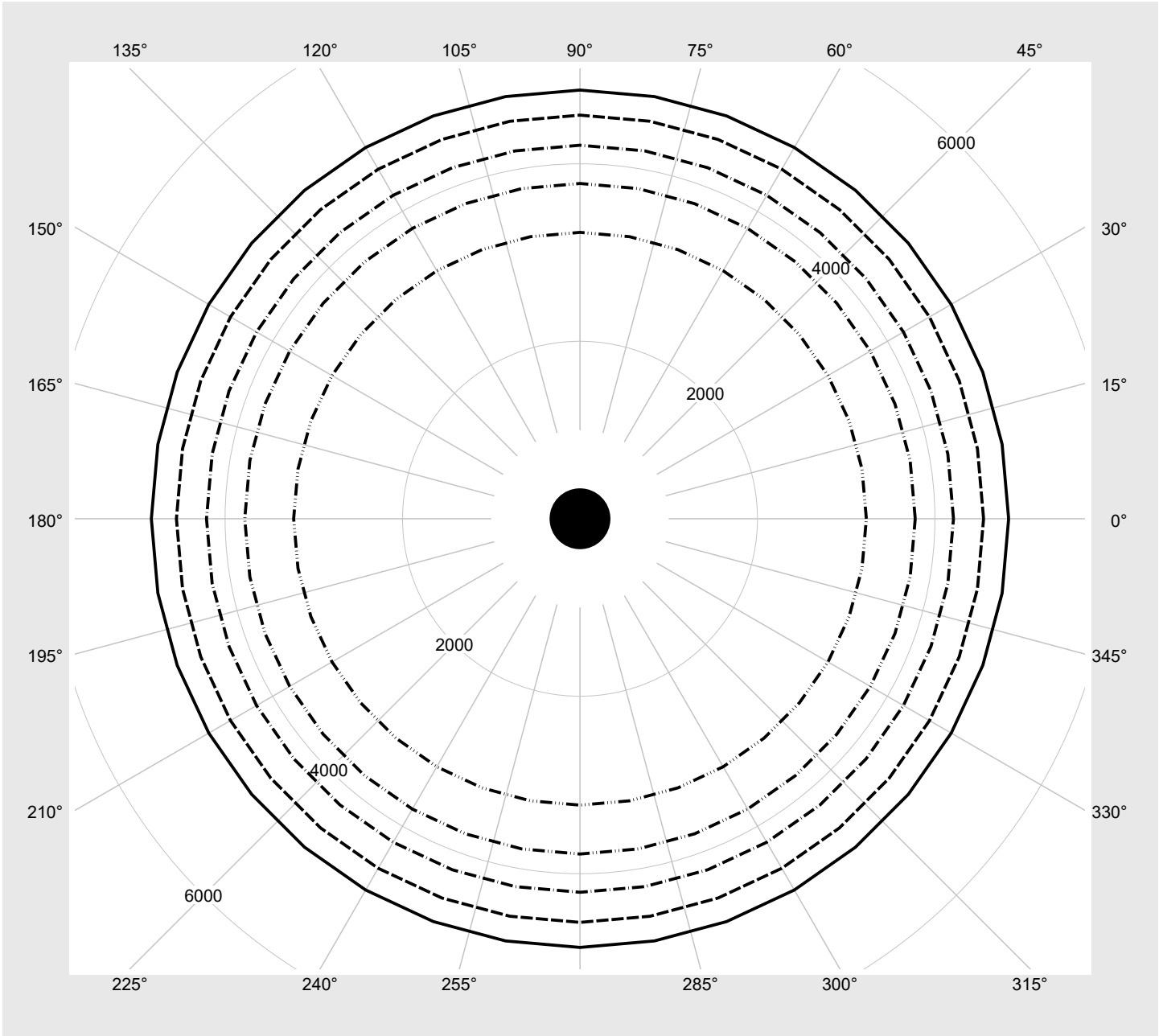
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table environmental temperature: 25°C		

Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	15580	88.8
95	241	252	14792	84.4
90	228	250	14004	79.9
85	216	248	13274	75.7
80	203	246	12481	71.2
75	190	243	11684	66.6
70	177	241	10885	62.1
65	165	238	10146	58.1
60	152	235	9341	53.6
55	140	232	8597	49.4
50	127	229	7791	45.1
45	115	225	7039	41.1
40	102	221	6227	36.7
35	90	216	5474	32.6
30	77	210	4656	28.5
25	65	204	3897	24.6
20	53	197	3138	20.5
15	40	186	2313	15.9
10	28	173	1549	11.5
5	16	153	784	7.2
2	8	127	270	4.3