

Photometric test report

Family
Silica® 21 round L

Order number: 51MF31DCENBA
EAN: 4069025807830

LP number
60084_13

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 ≥ 90

Controlgear

ECG-DALI

Rated values

Net luminous flux = 14530 lm

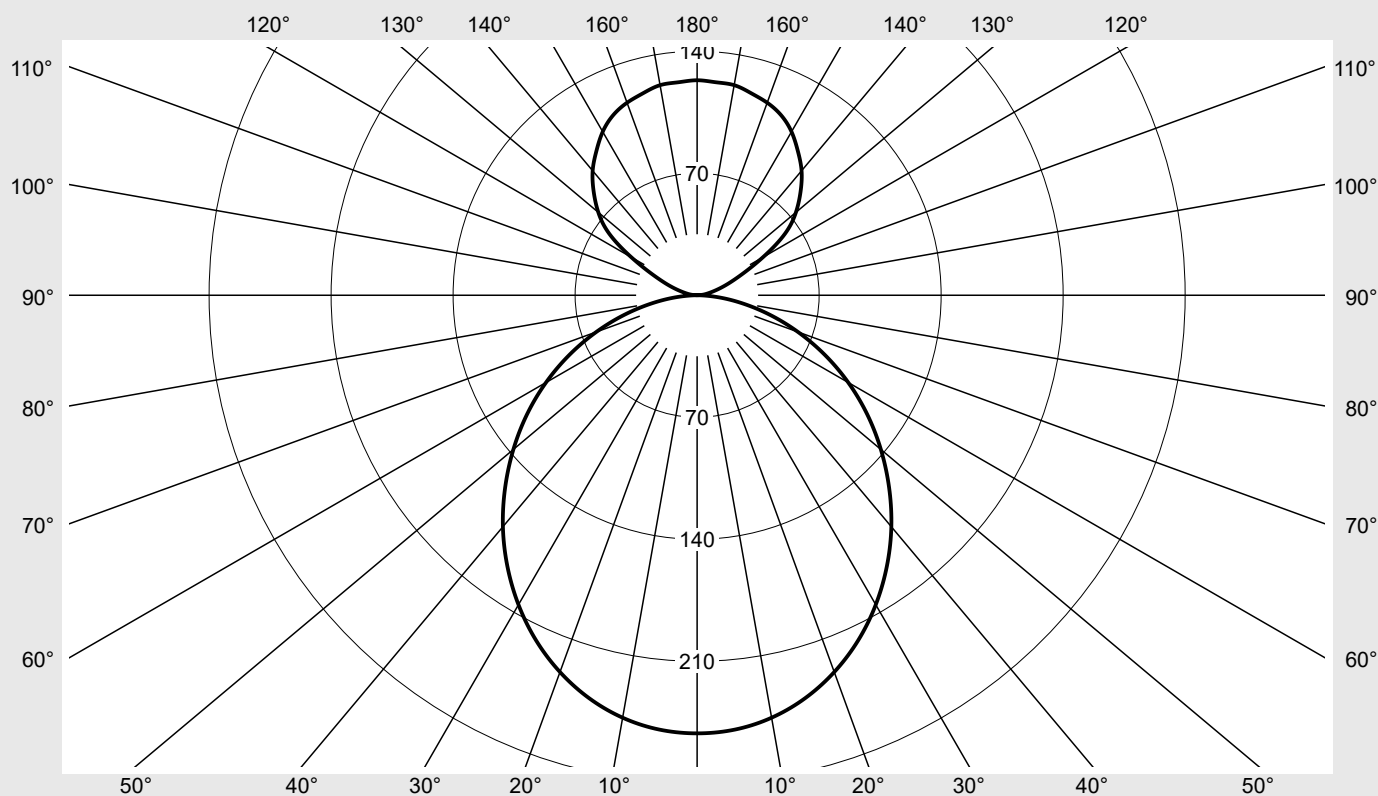
Power consumption = 90.2 W

Luminous efficacy = 161.1 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	15.8	16.9	16.5	17.7	18.6	15.8	16.9	16.5	17.7	18.6
	3H	17.2	18.2	18.0	19.0	20.0	17.2	18.2	18.0	19.0	20.0
	4H	17.8	18.8	18.6	19.6	20.6	17.8	18.8	18.6	19.6	20.6
	6H	18.3	19.1	19.1	20.0	21.0	18.3	19.1	19.1	20.0	21.0
	8H	18.3	19.1	19.2	20.0	21.0	18.3	19.1	19.2	20.0	21.0
	12H	18.4	19.2	19.3	20.0	21.1	18.4	19.2	19.3	20.0	21.1
4H	2H	16.4	17.3	17.2	18.1	19.1	16.4	17.3	17.2	18.1	19.1
	3H	18.0	18.8	18.8	19.7	20.7	18.0	18.8	18.8	19.7	20.7
	4H	18.7	19.5	19.6	20.3	21.3	18.7	19.5	19.6	20.3	21.3
	6H	19.3	19.9	20.2	20.8	21.9	19.3	19.9	20.2	20.8	21.9
	8H	19.4	20.0	20.3	20.9	22.0	19.4	20.0	20.3	20.9	22.0
	12H	19.6	20.1	20.5	21.0	22.1	19.6	20.1	20.5	21.0	22.1
8H	4H	19.0	19.5	19.8	20.4	21.5	19.0	19.5	19.8	20.4	21.5
	6H	19.6	20.1	20.5	21.0	22.1	19.6	20.1	20.5	21.0	22.1
	8H	19.9	20.3	20.8	21.2	22.3	19.9	20.3	20.8	21.2	22.3
	12H	20.1	20.5	21.0	21.4	22.5	20.1	20.5	21.0	21.4	22.5
12H	4H	19.0	19.5	19.9	20.4	21.5	19.0	19.5	19.9	20.4	21.5
	6H	19.7	20.1	20.6	21.0	22.1	19.7	20.1	20.6	21.0	22.1
	8H	20.0	20.4	20.9	21.3	22.4	20.0	20.4	20.9	21.3	22.4

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°	5190.4	
50°	5045.6	
55°	4895.7	
60°	4719.5	
65°	4505.4	
70°	4242.0	
75°	3925.8	
80°	3523.7	
85°	3009.9	

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Luminance values in cd/m²

γ 65°

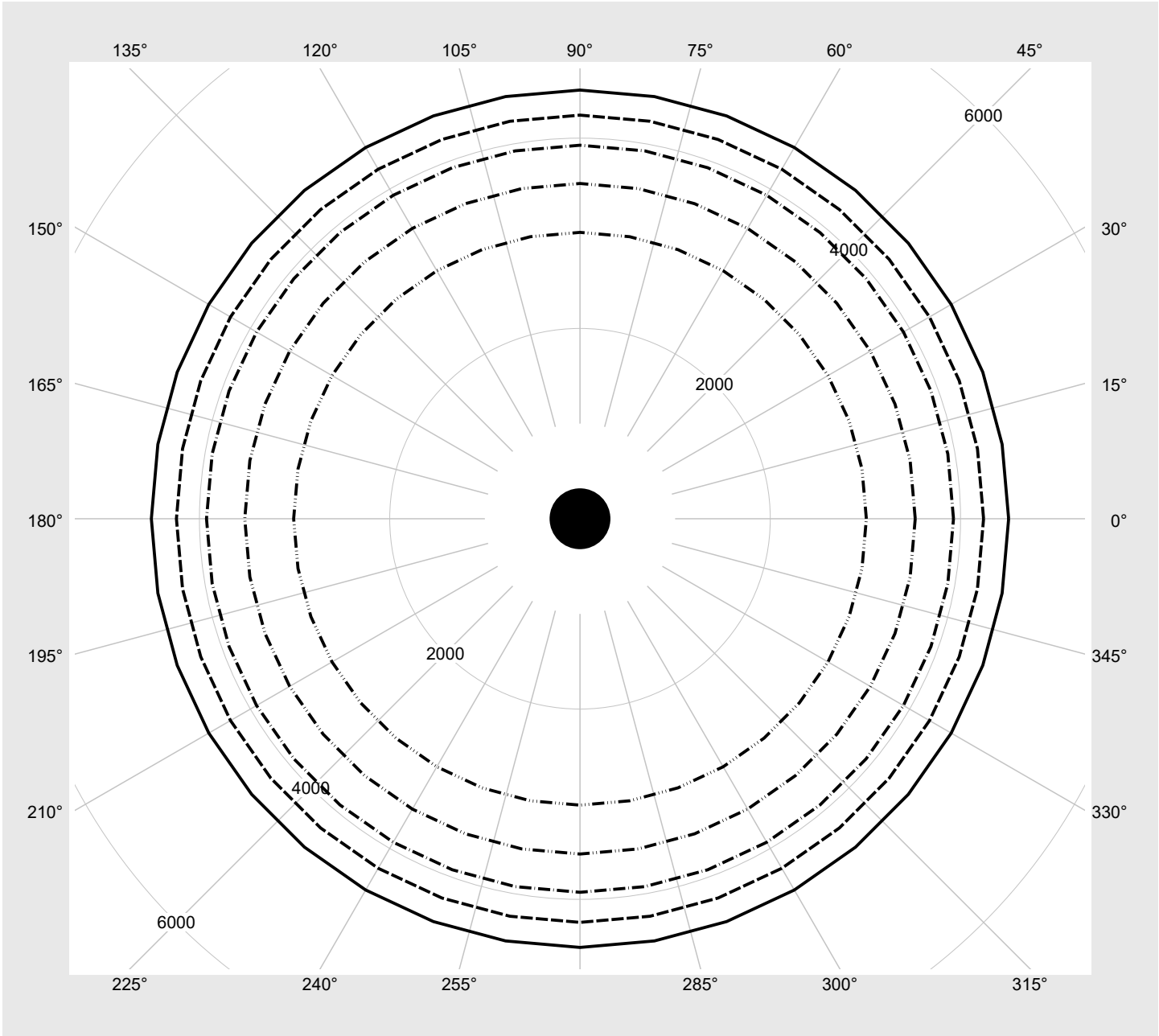
γ 70°

γ 75°

γ 80°

γ 85°

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Dimming levels table environmental temperature: 25°C		sit eco

Luminous flux [%]	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	14530	90.2
95	241	252	13811	85.6
90	228	250	13092	81.0
85	215	248	12368	76.3
80	202	246	11642	71.7
75	189	243	10912	67.0
70	176	241	10179	62.4
65	163	238	9442	57.9
60	150	235	8703	53.4
55	138	232	8019	49.2
50	125	228	7275	44.8
45	112	224	6526	40.4
40	100	220	5832	36.2
35	87	215	5079	31.9
30	75	209	4383	28.0
25	62	202	3623	23.7
20	50	194	2921	19.5
15	37	183	2156	14.8
10	25	169	1448	10.4
5	13	145	738	6.1
3	8	127	442	4.3